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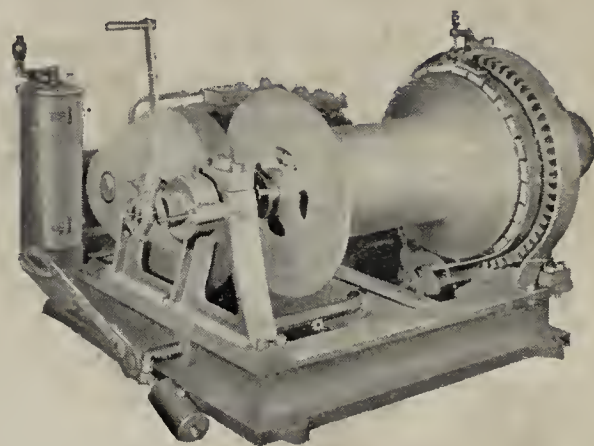
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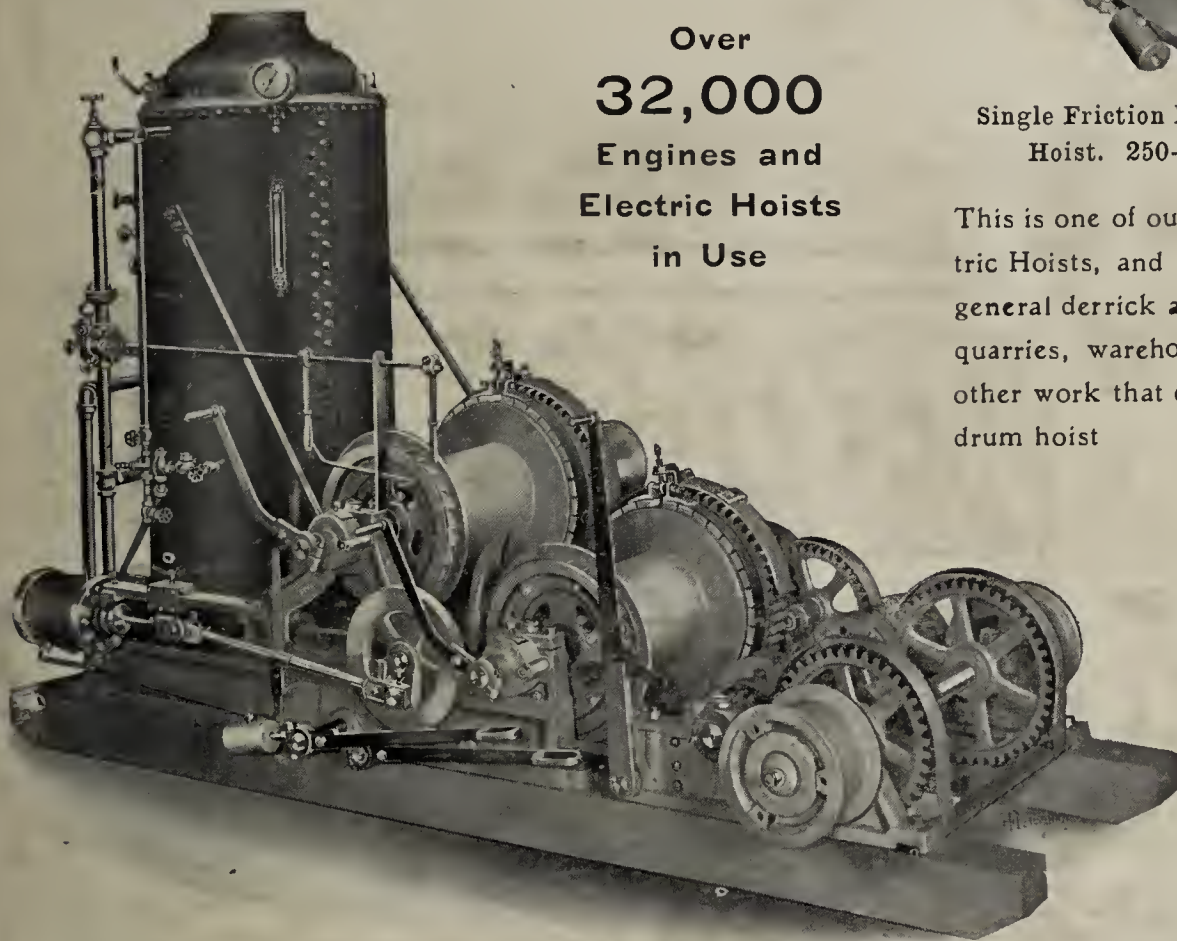
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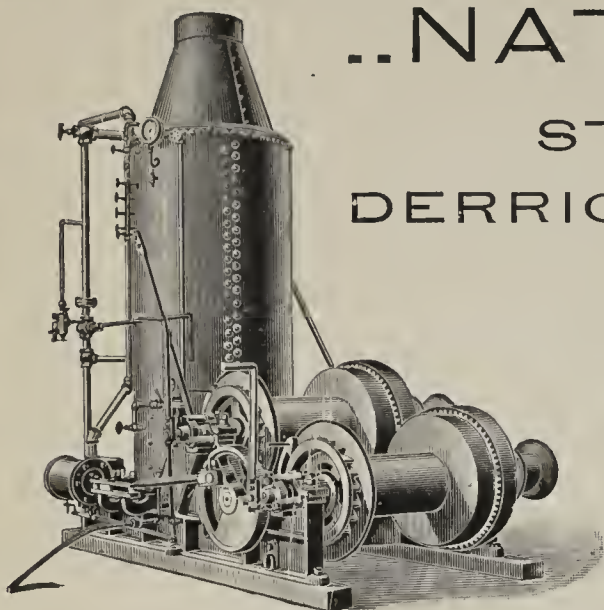
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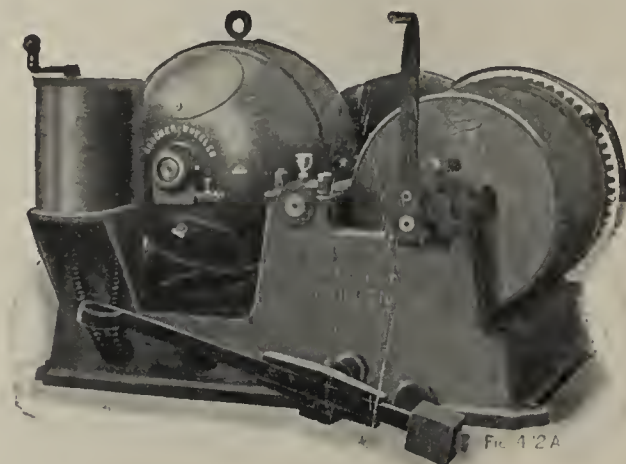
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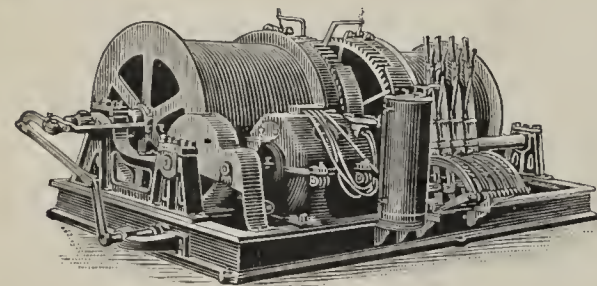
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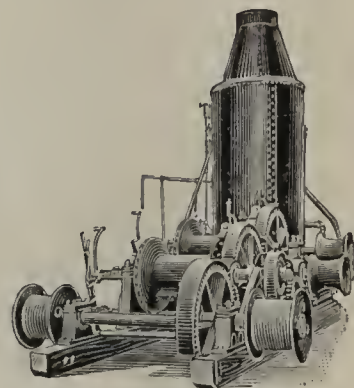
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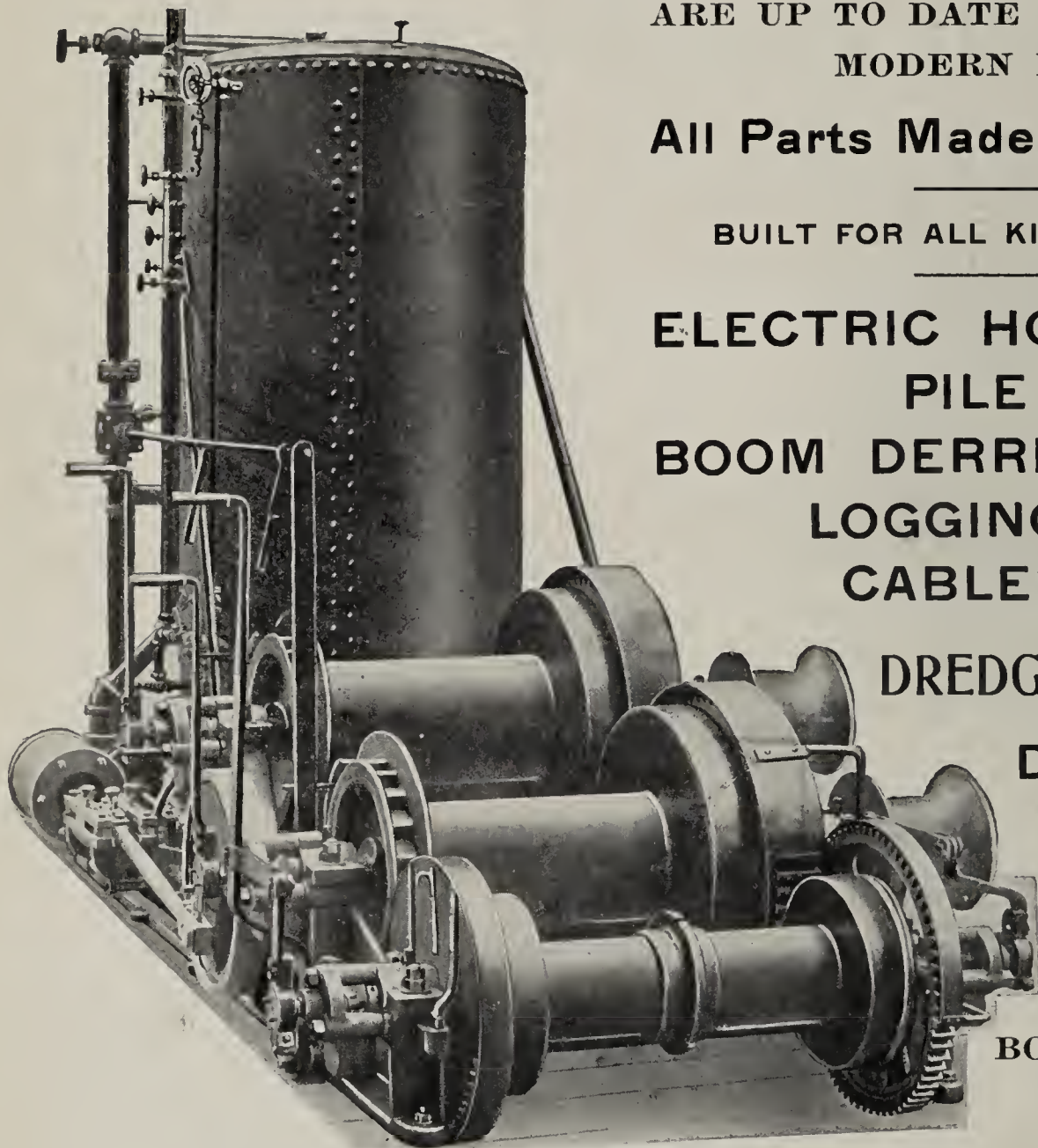
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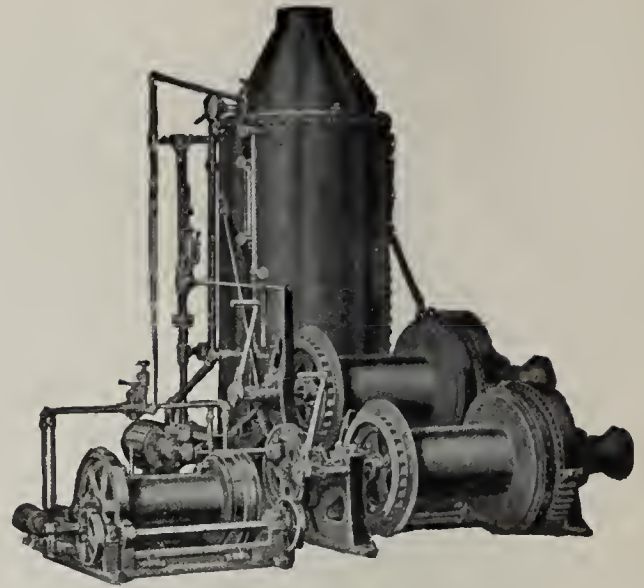
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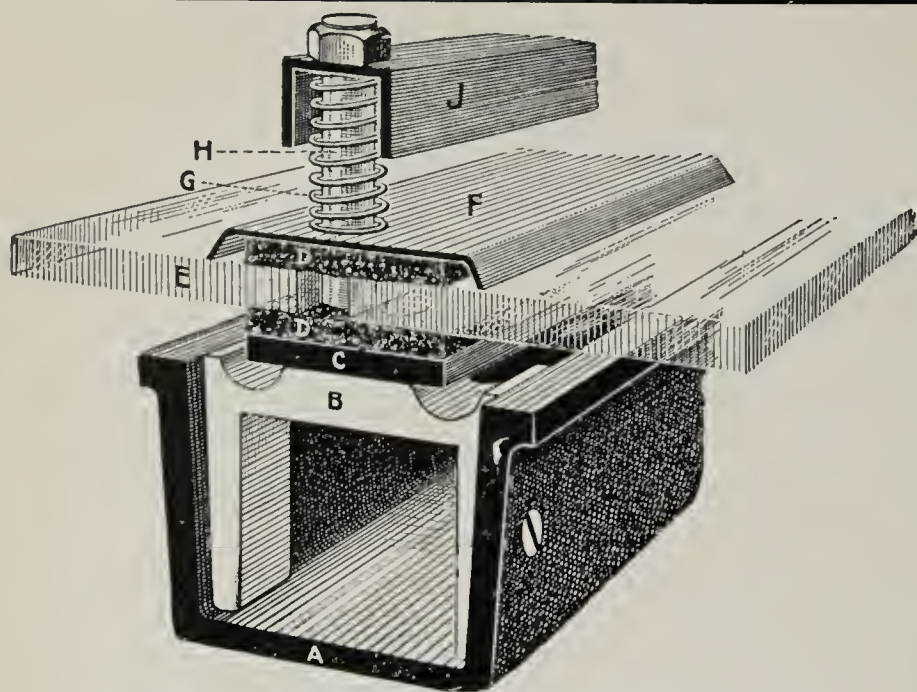
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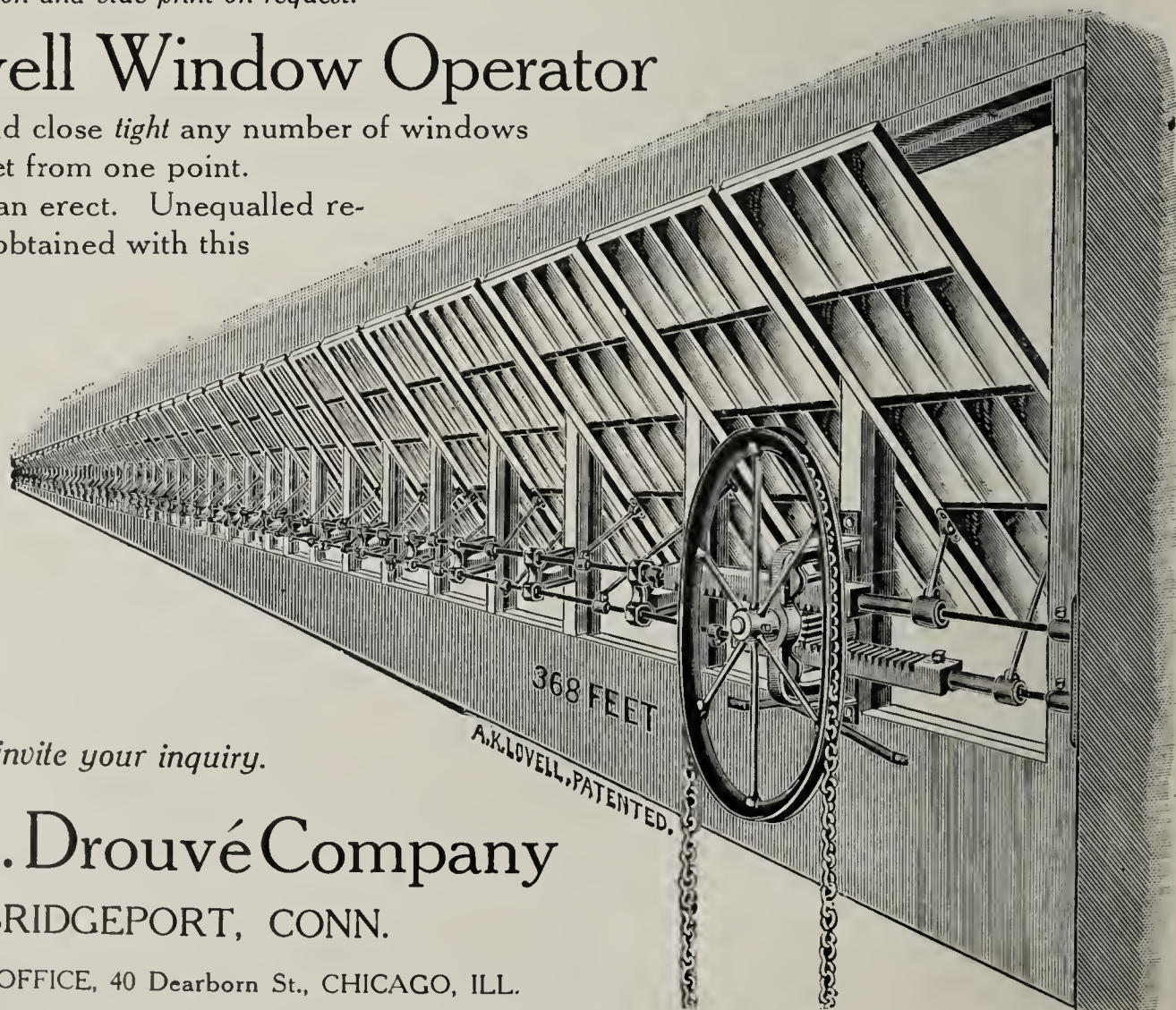
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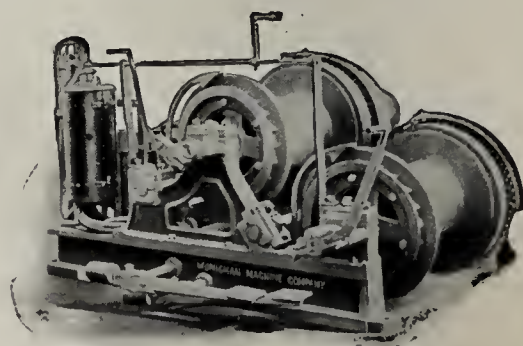
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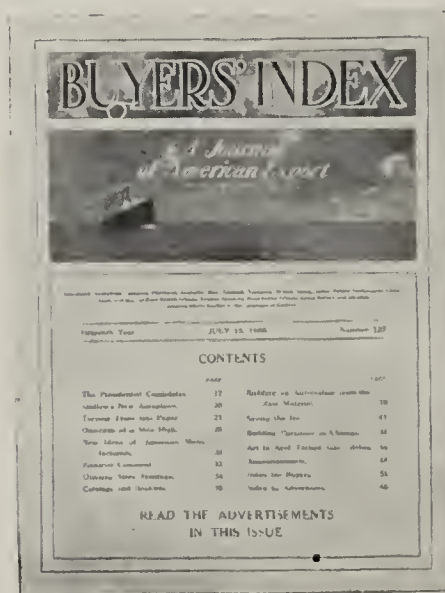
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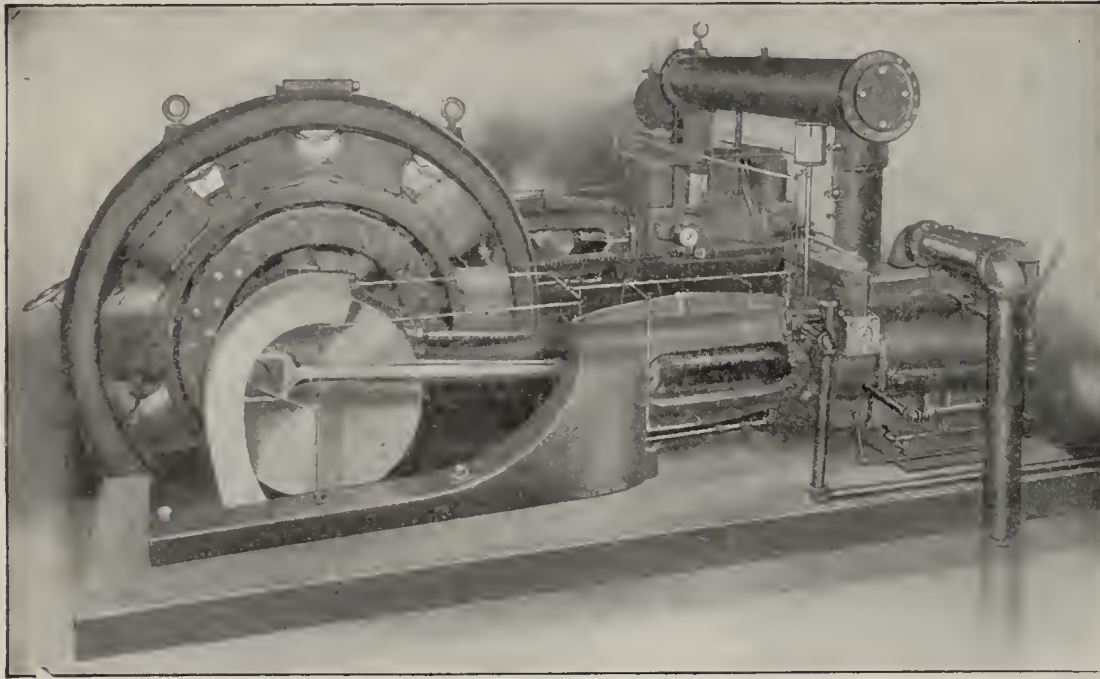
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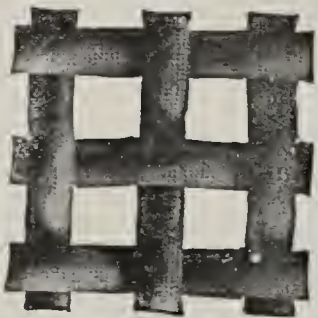
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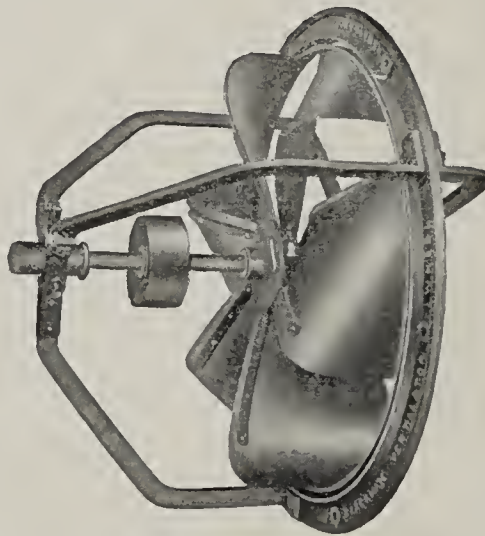


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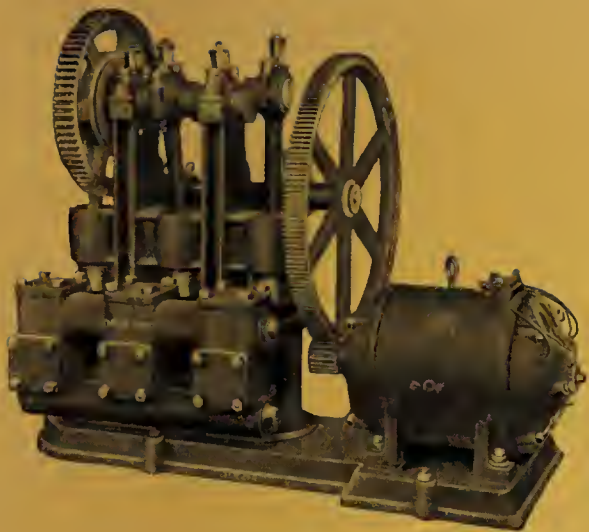


Fig. 55
Electric Driven Pump for Mine Work
Single Acting



Fig. 80
Deep Well Power
Working Head

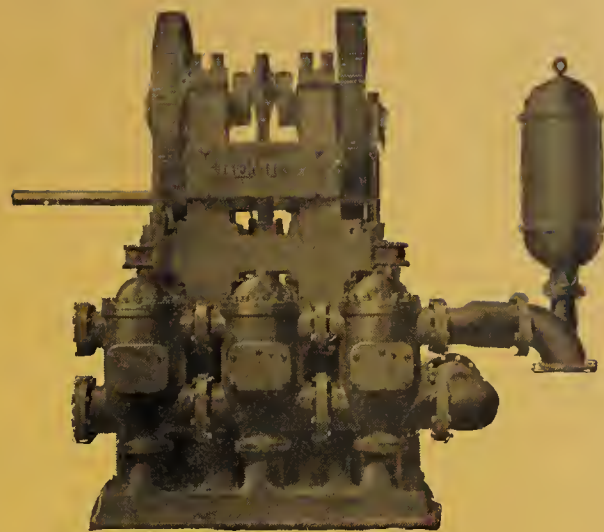


Fig. 51
General Water Supply
Double Acting



Fig. 50
Boiler Feeding
Single Acting

It has been demonstrated beyond doubt that Deming Triplex Power Pumps have no equal for their efficient and economical handling of any liquid that can be pumped.

Made for operation by any power, in mills, mines, factories, hotels, etc., they stand for all that is first-class in pumping equipment.

Our large Power Pump Catalogue gives full particulars and specifications.

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SALEM, OHIO, U. S. A.

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Fig. 59
For Railway Tank Service and
Small Water Works



Fig. 53
Single Acting Stuff Pump
For Paper Mills



Fig. 47
For House Use. Noiseless — Automatic

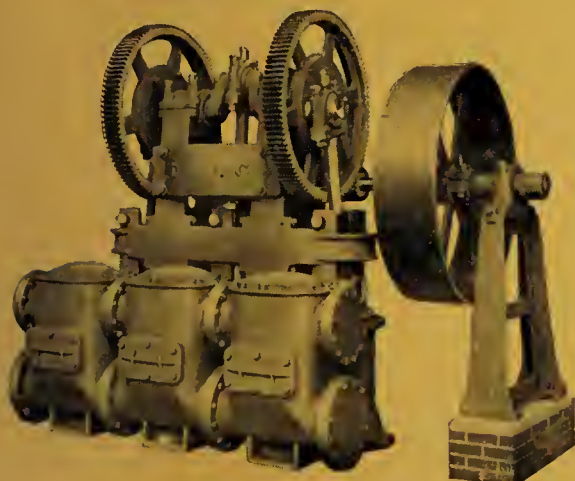


Fig. 40
For Irrigating, Brine Circulation and General Water
Supply. Double Acting Power Piston Pump

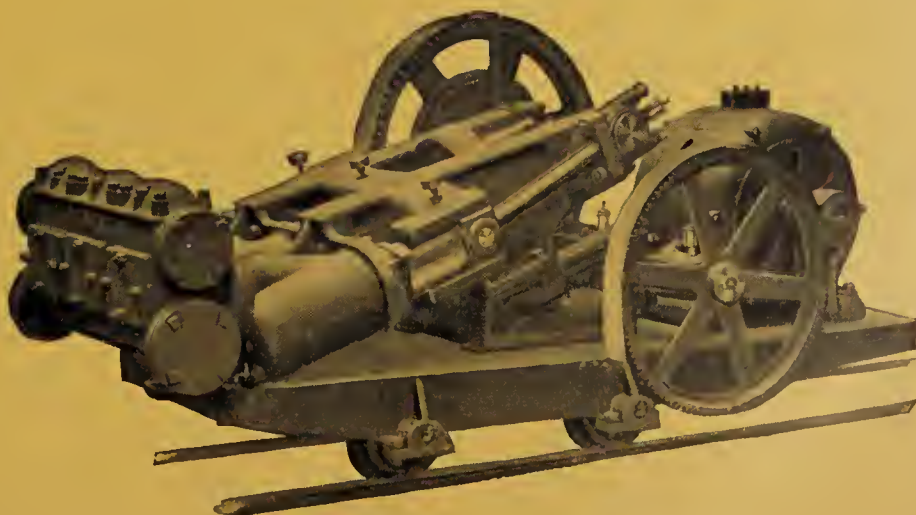


Fig. 70
Electric Driven Portable Mine Pump

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Crates, bag	287	Crucibles, steel	289	Curled hair	492	Cutters, flock	1110
Crayon mfrs.	287	Crucibles & dishes, platinum	855	Curled hair machinery	634	Cutters, flue	294
Crayons, bowling alley	287	Crude asbestos	37	Curlers' tools (tanners' &		Cutters, flue, pneumatic	865
Crayons, colored	287	Crude magnesite	747	curriers)	1137	Cutters, fodder	294
Crayons, dustless, white &		Crushed granite (see stone,		Curling irons	559	Cutters, formed & formed	
colored	287	crushed)	1064	Currycombs	291	milling	294
Crayons, leather	287	Crushed lime (ground &		Curtain fasteners	418	Cutters, gang	294
Crayons, lecturers'	287	crushed)	587	Curtain fixture diaphragms	302	Cutters, gasket (washer &	
Crayons, lumber	287	Crushed slag (see slag, con-		Curtain frame clamps	219	gasket)	296
Crayons, marble	287	crete & roofing)	1031	Curtain looms	1115	Cutters, gate	294
Crayons, metal workers'	288	Crushed steel for polishing		Curtain pole brackets	98	Cutters, gauge glass	294
Crayons, mill	287	granite, etc.	289	Curtain pole machines	634	Cutters, gear (see gear cut-	
Crayons, railroad	287	Crushed stone	1064	Curtain pole sanding & fin-		ting machines)	640
Crayons, school	287	Crusher castings, rock	198	ishing machines	634	Cutters, glass (tools)	294
Crayons, wax & oil, school		Crusher parts	289	Curtain pole trimmings	1142	Cutters, glass tube	294
& package	287	Crusher parts & repairs,		Curtain poles	868	Cutters, granite building	
Crayons & pencils, metal		stone	1066	Curtain rods	921	work	479
workers'	288	Crusher plates	853	Curtain rods, extension sash		Cutters, gummer	294
Cream separator bowls	93	Crusher roll teeth	1103	Curtain sockets	1035	Cutters, gusset	1110
Cream separator stamped		Crushers, asphalt	38	Curtain springs	1040	Cutters, hand hole	294
parts	1045	Crushers, clay	289	Curtain stretchers	1080	Cutters, hog nose	294
Cream separators	1008	Crushers, coal & coke	289	Curtains, car	171	Cutters, index	294
Cream whipping machines	634	Crushers, corn & cob	289	Curtains, locomotive cab	291	Cutters, inserted teeth	294
Creamery apparatus & sup-		Crushers, jaw	289	Curtains, rubber bath	291	Cutters, interlocking	294
plies	288	Crushers, rock & ore	919	Curtains, steel rolling	291	Cutters, involute	294
Creamery machinery	634	Crushers, spindle	289	Curtains, theatre, asbestos	1122	Cutters, iron bar & rod	294
Creamery pumps	888	Crushers, stone (see rock &		Curtains, theatre, steel	1123	Cutters, key-way (see key-	
Creamery testers	1106	ore crushers)	919	Curtains & materials, car	171	seating machines)	644
Creamery trucks	1145	Crushers, sugar cane	1082	Curves, railroad	903	Cutters, knit fabric	1110
Creasing machines, paper,		Crushers & pulverizers, as-		Cushion couplings, flexible	280	Cutters, kraut	294
cloth & strawboard	634	phalt	38	Cushioned tires	1130	Cutters, lace leather	294
Creels	1110	Crushing grates, clinker	485	Cushions, air, saw mill car-		Cutters, lead pipe	294
Creels, dresser	1110	Crushing machinery dies	304	riage	8	Cutters, lock corner box	294
Creepers, anti-rail	288	Crushing machinery tires	1131	Cushions, billiard & pool		Cutters, meat	294
Creepers, ice	288	Crushing mortars	791	table	291	Cutters, metal slitting	294
Creosote oils	807	Crushing plant elevators	358	Cushions, elevator air	354	Cutters, milling	294
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Creosoted bridge timbers (see		Crushing & mining machin-		ershions)	972	Cutters, paper (see paper	
creosoting works)	288	ery, portable	648	Cushions, telephone, pneu-		cutting machines)	651
Creosoted lumber (see creo-		Crushing & screening plants,		matic	1104	Cutters, paper, hand	295
soting works)	288	coal & coke	228	Cushions, telephone receiver	291	Cutters, platoon	295
Creosoting cars	176	Crushing & stemmer machin-		Cuspidors	291	Cutters, pipe	295
Creosoting cylinders	296	ery, grape	641	Cut gears	466	Cutters, plush	1111
Creosoting tanks & cylinders	1099	Crutch tips, rubber (chair &		Cut glass letters	585	Cutters, pneumatic flue	865
Creosoting works	288	crutch)	1130	Cut markers	1110	Cutters, pneumatic stay-bolt	
Crestings, terra cotta	288	Cryolite	289	Cut meters	774	Cutters, porcelain tube	295
Crestings & finials, iron	288	Crystal, lead & colored glass		Cut nails	798	Cutters, rack	295
Crestings & finials, sheet		Crystalizers	1082	Cut-off couplings	279	Cutters, rag	1111
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Crimping machines (blind		Cube cutting machines, ice	643	Cut-outs, arc light	292	Cutters, rib	1111
slat)	622	Cube importers, mosaic	791	Cut-outs, battery	292	Cutters, rod & wire	295
Crimping machines, can	626	Cube sugar apparatus	1082	Cut-outs, incandescent	292	Cutters, roll paper	295
Crimping machines for tops		Cuff machines, flat ribbed	1110	Cut-outs, telephone	292	Cutters, root	295
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Crimping machines, wire	674	Cultivator points	868	Cut pinions	843	Cutters, segment	295
Crimpling rolls	928	Cultivator shovels	1022	Cut racks	901	Cutters, serrated (knives &	
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Critchlow valves	1160	Cultivators	289	Cutlery mfrs.	292	Cutters, sleet	295
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Crocheting machinery	1110	Cultivators, onion	290	cutter)	489	Cutters, sprocket	295
Crockery floats	435	Culvert machinery, metal	646	Cutter heads	512	Cutters, sprue, foot or power	
Crocodile shears	1014	Culvert pipe, cast iron	844	Cutter shoes	1020	Cutters, stalk	295
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Jack straps	559	Jacks, stone	561	Joints, insulated, for electrical track circuits	541	Key blanks	70
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Jacks, car	559	Jam & check nuts	802	Jolly machines for stone-ware, etc.	644	Key-seating shafts	1013
Jacks, car pit	559	Japan oils	808	Journal bearings	58	Key-seating tools	1135
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Mills, mustard.....	787	Miners' squib boxes.....	96	Mixing machines, corn.....	633	mooring)	530
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School furniture	453	Screening plants, coal & coke	228	Screw rings	917	Seal presses	878
School house hooks	532	Screening & excavating plants, sand, portable	978	Screw rods	922	Sealing hammers, pneumatic	867
School rulers	976	Screenings, stone	1075	Screw shoving machines	664	Sealing machines, carton	628
School slates	1032	Screens, bank counter	1000	Screw slotting cutters	295	Sealing machines, envelope	637
School ventilation (see ven- tilating apparatus)	1171	Screens, card	1119	Screw slotting machines	664	Sealing presses, car	1007
School wardrobes, ventilated	1178	Screens, clay & cement	1000	Screw spikes	1038	Sealing wax	1184
School water closets	1182	Screens, coal, gravel & sand	1001	Screw stock, steel	1057	Seals, box strap	1006
Schools & colleges, engineer- ing	364	Screens, cylindrical	1000	Screw thread rolling ma- chines	664	Seals, case	1006
Scientific Instruments	541	Screens, disintegrating	1000	Screw tips	1130	Seals, lead	1007
Scientific Instruments (second hand)	541	Screens, door (window & door)	1001	Screw tops, bottle	1003	Seals, meter	774
Scissors chains	211	Screens, fire	431	Screw tops, tin	1137	Seals & scaling presses, car	1007
Scissors, fluting	997	Screens, fireplace	1000	Screw wrcches	1208	Seam closing machines, elbow	636
Scissors grinders (knife & scissors)	488	Screens, fly, rustless	1000	Scrawling machines, nut & bolt	622	Seam face granite	484
Scissors, sardine	997	Screens for water works	1000	Screwless door knobs	310	Seaming machines	665
Scissors & shears	1016	Screens, foundry	1000	Screws, bed	1002	Seaming machines, furnace pipe	639
Scoop buckets	120	Screens, insect, wire	1000	Screws, bench	1003	Seamless brass, copper & nickel plated tubing, plum- bers'	861
Scoop & spade mfrs.	1021	Screens, mining	1000	Screws, bibb	1003	Seamless cold pressed steel boxes	97
Scoops, cheese	997	Screens, radiator, ornamen- tal	809	Screws, bicycle	1003	Seamless copper air chambers	8
Scoops, coal	997	Screens, revolving water	1000	Screws, brass, copper, etc.	1003	Seamless cylinders & tanks	297
Scoops, furnace	997	Screens, revolving & shak- ing	1000			Seamless knitting machines	1115
Scoops, grain	997	Screens, roller, window	1001			Seamless pontoon pipe	846
Scoops, potato, corn, etc.	998	Screens, rolling	1001			Seamless pressed steel barrels	50

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Seamless rolled steel pipe.....	846	Self-fluxing solder.....	1036	Setters, axle.....	1009	Shades, prismatic	1011
Seamless shafting, hollow		Self-hardening steel.....	1057	Setters, skein	1009	Shades, silk	1011
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Seamless steel shells.....	1018	Self-locking scuttle openers,		chines, leather	645	porcelain	1011
Seamless steel square tubing.....	1151	automatic	1006	Settings, grate	485	Shades & reflectors, metallic.....	1011
Seamless steel tanks.....	1097	Self-measuring faucets.....	418	Settings, prism glass.....	1010	Shades & reflectors, mirror.....	1012
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Account Register & System

American Case & Register Co., Salem, O.
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Accumulators (Hydraulic)

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Niles-Bement-Pond Co., 111 B'way, New York
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Philadelphia Roll & Machine Co., S 23d & Washington, Phila., Pa.
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Scalfe Foundry & Machine Co., 28th & Smallman, Pittsburg, Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
SNOW STEAM PUMP WORKS, 115 B'way, New York. (See adv. index & branch offices, end of book)
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
United Engineering & Foundry Co., Farmers' Bank Bldg, Pittsburg, Pa.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)
WRIGHT WIRE CO., Worcester, Mass.

Accumulators (Steam)

Waterbury Farrel Foundry & Machine Co. (For Steam Turbines), Waterbury, Conn.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Acetate of Alumina

Merrimac Chemical Co., Boston, Mass.

Acetate of Amyl

Albany Chemical Co., Albany, N. Y.
Bush, W. J. & Co. (Inc.), 100 William, New York
Cooper, Chas. & Co., 194 Worth, New York
INTERNATIONAL SMOKELESS POW- der & Chemical Co., 140 Cedar, New York
McKesson & Robbins, 91 Fulton, New York
Maas & Waldstein Co., 100 William, New York
Magnus, Mabee & Reynard (Inc.), 257 Pearl, New York
National Aniline & Chemical Co., 100 William, New York
Van Brunt, J. A. & Co., 80 William, New York

Acetate of Lead

General Chemical Co. (Sugar of Lead), 25 Broad, New York
Grasselli Chemical Co. (Brown & White), The Arcade, Cleveland, O.

Acetate of Lime

Antrim Chemical Co., Penobscot bldg, Detroit, Mich.
Boyer City Chemical Co., Boyne City, Mich.
Bradford Chemical Co., Bradford, Pa.
Cleveland-Cliffs Iron Co., Cleveland, O.
Cummer, Diggins & Co., Cadillac, Mich.
Desmond, F. C., Traverse City, Mich.
Forest Chemical Co., Sheffield, Pa.
Gray Chemical Co., Port Alleghany, Pa.
Gray, Wm. S. & Co., 76 William, New York
Keessler, R. & Son, Brandt, Pa.
Lake Superior Iron & Chemical Co., Detroit, Mich.

McKean Chemical Co., Williamsport, Pa.
Noble Electric Steel Co., 1380 Sutter, San Francisco, Cal.
Nusbaum Chemical Co., Bradford, Pa.
Otto Chemical Co., Williamsport, Pa.
Pioneer Iron Co., Negaunee, Mich.
Russell Chemical Co., Russell, Pa.
Smith, A. B. Chemical Co., Bradford, Pa.
Wyman Chemical Co., Port Alleghany, Pa.

Acetate of Soda

Grasselli Chemical Co. (Brown & White), The Arcade, Cleveland, O., & 63 Wall, New York

Acetone

Albany Chemical Co., Albany, N. Y.
Billings, Hartford & Co., 84 High, Boston, Mass.

Erkenbrach, Geo. A. Co., 115 Maiden la, New York
Harshaw, Fuller & Goodwin Co., Electric bldg, Cleveland, O.
Kessler & Co., Brandt, Pa.
Mallinckrodt Chemical Works (Also Acetone-Sulphite), St. Louis, Mo.
National Aniline & Chemical Co., 100 William, New York
Roessler & Hasslacher Chemical Co., 100 William, New York
Schoellkopf, Hartford & Hanna Co., Buffalo, N.Y.

Acetylene Generators

(See Gas Machines, Acetylene)

Acid (Acetic)

Baker & Adamson Chemical Co., Easton, Pa.
Billings, Clapp Co., Boston, Mass.
Bradford Chemical Co., Bradford, Pa.
Butterworth-Judson Co., Newark, N. J.
Cochrane Chemical Co., Boston, Mass.
Eastwood Chemical Co., Belleville, N. J.
Fuerst Bros. & Co., 2 Stone, New York
Fuller & Fuller, 220 Randolph, Chicago, Ill.
General Chemical Co., 25 Broad, New York
Gordon, W. J. M. Chemical Co., Cincinnati, O.
Grasselli Chemical Co., Cleveland, O.
Harrison Bros & Co. (Inc.), Phila., Pa.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Kalbfelsch, Franklin H. Co., 31 Burling sl, New York
Kelso & Co., 209 S Clinton, Chicago, Ill.
Larkin & Cheffer Chemical Co., 109 St. George, St. Louis, Mo.
Mallinckrodt Chemical Works, St. Louis, Mo.
Merrimac Chemical Co., Boston, Mass.
Nusbaum Chemical Co., Bradford, Pa.
Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.
Roessler & Hasslacher Chemical Co., 100 William, New York
Sholes, C. E. & Co., 164 Front, New York
Squibb, E. R. & Sons, 36 Dougherty, Brooklyn, N. Y.
Smith, A. B. Chemical Co., Bradford, Pa.
Thomsen Chemical Co., Race & Winder, Baltimore, Md.

Acid (Boracic)

Pacific Coast Borax Co. (Refined), Oakland, Cal.
Wiarda, Jno. C. & Co., Brooklyn, N. Y.

Acid (Carbolic)

Albany Chemical Co., Albany, N. Y.
Baker & Adamson Chemical Co., Easton, Pa.
Barret Mfg. Co., Phila., Pa.
Billings, Clapp & Co., Boston, Mass.
Bischoff, C. & Co., 451 Washington, New York
GROSCHÉ, BRUNO & CO., 13 Jones la, New York. (See adv. index, end of book)
Fuerst Bros. & Co., New York
Lehn & Fink, New York
McKesson & Robbins, 91 Fulton, New York
Mallinckrodt Chemical Works, St. Louis, Mo.
Merck & Co., University pl & 8th, New York
National Aniline & Chemical Co., 100 William, New York
Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.
Schieffelin, W. H. & Co., 170 William, New York
Schoellkopf, Hartford & Hanna Co., Abbott rd, Buffalo, N. Y.
White Tar Co., 5 Front, New York

Acid Eggs (Cast Iron)

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa., & 149 B'way, New York
 Caroline Iron Works, 723 S Caroline, Baltimore, Md.

LAIDLAW-DUNN-GORDON CO., 115
 B'way, New York; Works: Cincinnati, O.
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MACINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index, end of book)
 Valk & Murdock Iron Works, Charleston, S. C.

Acid (Formic)

Merrimac Chemical Co., Boston, Mass.

Acid (Hydrofluoric)

Butterworth-Judson Co., Newark, N. J.
 Dempwolf, E. A. & Sons (For Cleaning Castings), York, Pa.
 Enequist, Erik, N 9th & Roebling, Brooklyn, N. Y.
 Feuchtwanger, L. & Co., 54 Fulton, New York
 General Chemical Co., 25 Broad, New York
 Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Rhodes, Jas. H. & Co., 117 Kinzie, Chicago, Ill.
 Thomsen Chemical Co., Race & Winder, Baltimore, Md.
 Wiarda, John C. & Co., 137 Hooper, B'klyn, N.Y.

Acid (Lactic)

Avery Chemical Co., Boston, Mass.

Acid (Nitric & Muriatic)

Baker & Adamson Chemical Co., Easton, Pa.
 Barrett Mfg. Co., Phila., Pa.
 Billings-Clapp Co., Boston, Mass.
 Butterworth-Judson Co., Newark, N. J.
 Cochrane Chemical Co., Boston, Mass.
 Contact Process Co., Buffalo, N. Y.
 Cooper, Chas. & Co., 194 Worth, New York
 General Chemical Co., 25 Broad, New York
 Grasselli Chemical Co., Arcade bldg., Cleveland, Ohio, & 63 Wall, New York
 Harrison Bros. & Co. (Inc.), Phila., Pa.
 Kalbfleisch, Franklin H., B'way & 16th, New York
 Lennig, Chas. & Co. (Inc.), 112 S Front, Phila., Pa.
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Merrimac Chemical Co., Boston, Mass.
 National Acid Co., New Orleans, La.
 Penna. Salt Mfg. Co., 115 Chestnut, Philadelphia, Pa.
 Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.
 Rhodes, Jas. H. & Co., 117 Kinzie, Chicago, Ill.
 Sholes, C. E. & Co., 164 Front, New York
 Thomsen Chemical Co., Race & Winder, Baltimore, Md.
 United Zinc & Chemical Co., Kansas City, Mo.
 Works: Argentine & Iola, Kan.
 Western Chemical Mfg. Co., Denver, Col.

Acid (Oxalic)

Bischoff, C. & Co. (German), 451 Washington, New York
 Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Tennant, C. Sons & Co., 76 William, New York
 Thomsen Chemical Co., Baltimore, Md.

Acid (Phosphoric)

Thomsen Chemical Co., Baltimore, Md.

Acid (Stearic)

Celina Stearic Acid Co., Celina, O.
 Emery Candle Co., Cincinnati, O.
 Harkness & Cowing Co., Cincinnati, O.
 Manhattan Oil Co., 51 Front, New York
 Proctor & Gamble Co., Cincinnati, O.
 Work, M. Co., Cincinnati, O.
 Will & Baumer Co., Syracuse, N. Y.

Acid (Sulphuric)

American Agl. Chemical Co., 2 Rector, New York
 Baker & Adamson Chemical Co., Easton, Pa.
 Billings-Clapp Co., Boston, Mass.
 Bower, Henry Chemical Co., 29th & Gray's Ferry rd., Phila., Pa.
 Butterworth-Judson Co., Newark, N. J.
 Carolina Chemical Co., Richmond, Va.
 Cochrane Chemical Co., 55 Kilby, Boston, Mass.
 Contact Process Co., Buffalo, N. Y.
 Cooper, Chas. & Co., 194 Worth, New York
 Coweta Fertilizer Co., Newnan, Ga.
 Duckworth Sulphur, Copper & Iron Co., Isabella, Tenn.
 Eureka Fertilizer Co., Perryville, Md.
 General Chemical Co., 25 Broad, New York
 Grasselli Chemical Co., Cleveland, O., & 63 Wall, New York
 Harrison Bros. & Co. (Inc.), Phila., Pa.
 Hegeler Bros., Danville, Ill.
 Hubbard Fertilizer Co., Darby bldg, Baltimore, Md.
 Illinois Zinc Co., Peru, Ill.
 Jarecki Chemical Co., Sandusky, O.
 Kalbfleisch, Franklin H., B'way & 16th, New York
 Larkin & Scheffer Chemical Co., St. Louis, Mo.
 Laureldale Chemical Works, Providence, R. I.
 Lening, Chas. & Co. (Inc.), 112 S Front, Phila., Pa.
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Matthiessen & Hegeler Zinc Co., La Salle, Ill.
 Merrimac Chemical Co., Boston, Mass.
 Michigan Carbon Works, Detroit, Mich.
 Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill.
 National Acid Co., New Orleans, La.
 New Jersey Zinc Co., 55 Wall, New York
 Penna. Salt Mfg. Co., 115 Chestnut, Phila., Pa.
 Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.
 Rhodes, Jas. & Co., 117 Kinzie, Chicago, Ill.
 Royster Guano Co., Norfolk, Va.
 Sholes, C. E. & Co., 164 Front, New York
 Standard Guano & Chemical Mfg. Co., New Orleans, La.
 Thomsen Chemical Co., Race & Winder, Baltimore, Md.
 Virginia-Carolina Chemical Co., Richmond, Va.

United Zinc & Chemical Co., Kansas City, Mo.
 Works: Argentine & Iola, Kan.
 Western Chemical Mfg. Co., Denver, Colo.
 York Chemical Co., York, Pa.

Acid (Tannic)

Baker & Adamson Chemical Co., Easton, Pa.
 Billings Clapp Co., 64 Federal, Boston, Mass.
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Pfizer, Chas. & Co., 145 Front, New York
 Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.

Acid Vessels

Bishop Gutta Percha Mfg. Co., 422 E 25th, New York
 Eimer & Amend, 205 3d av, New York
 Fields', Chas. J. Sons ("The Grout" for Chemical Engines), 633 Market, Philadelphia, Pa.
 Goodyear Rubber Co., 787 B'way, New York
 Gutta Percha Rubber Mfg. Co., 126 Duane, New York

Acids (Wood)

Bayless & Berkolew, Binghamton, N. Y.
 Beardsley Bros. & Rhodes, Canton, Pa.
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 Corbett, M. J. & Co., Binghamton, N. Y.
 Corbett & Starn, Binghamton, N. Y.
 Finch-Ross Chemical Co., Binghamton, N. Y.
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 Penn Chemical Co., Susquehanna, Pa.
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 Wayne Chemical Co., Susquehanna, Pa.
 Wright Chemical Co., Susquehanna, Pa.

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 Bryant Electric Co., Bridgeport, Conn.
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 Elsmere, Del. (See adv. index, end of book)
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MORSE, FRANK W. ("Webster" Auto-
 matic, 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
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(See Window Blind Adjusters)

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(See Window Shade Adjusters)

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 Beach, H. D. Co., Coshocton, O.
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 Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.
 Illustrated Postal Card & Novelty Co., 9 Walker, New York
 Manitowoc Aluminum Co. (Aluminum), Manitowoc, Wis.
 National Advertising Co. (Yard Sticks & Novelties), Seneca Falls, N. Y.
 New York Aluminum Co., 377 B'way, New York
NIAGARA FALLS METAL STAMPING
 Works (Brass, Copper, etc.), Niagara Falls, N. Y. (See adv. index, end of book)
 Novelty Advertising Co., Coshocton, O.
 Novelty Cutlery Co. (High Grade Photo Pocket Knives, Transparent Handle), Canton, O.
 Osborne Co. (Calendars & Novelties), Washington & Hubert, New York
 Pye, A. E. (Paper Post Cards), 60 Van Buren Hotel, Chicago, Ill.
 Readyrule Mfg. Co. (Rules, etc.), Battle Creek, Mich.
 Silver Springs Mfg. Co. (Rules, Yard Sticks, Aprons, Signs, etc.), Silver Springs, N. Y.
 Tobey, Warren P. (Calendars, Fans, Yard Sticks & Specialties), New Bedford, Mass.
 Waring, Vechten (Booklets, Catalogues, etc.), 92 John, New York
 Westcott-Jewell Co. (Rulers, Yard Sticks, etc.), Seneca Falls, N. Y.
 West Lafayette Mfg. Co. (Wooden), West Lafayette, O.
 Whitehead & Hoag Co., 253 B'way, New York
 Wolf & Co., Franklin & Vine, Phila., Pa.

*Advertising (Trade Journal)

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 Black, J. B. ("Wm. Beatty & Sons" Carpenters', Coopers', Railroad, Ship Carpenters', Gutter or Spout), Chester, Pa.
 Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Collins Co., Collinsville, Conn.
 Evansville Tool Works (Carpenters', Railroad, Ship Carpenters', etc.), Evansville, Ind.
 Findlay Axe & Tool Co. (Carpenters', Railroad, etc.), Findlay, O.
 Mack & Co. ("D. R. Barton"), Railroad Carpenters, etc., Rochester, N. Y.
 Norton Tool Co., West Park, O.
 Peck Edge Tool Co., Cohoes, N. Y.
 Plumb, F. R., P. R. R. c Tucker, Phila., Pa.
 United States Edge Tool Co., Cattaraugus, N. Y.
 Weston, Thomas B., 118 Centre Market Space, Baltimore, Md.
 White, L. & I. J. Co., Buffalo, N. Y.

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Aerial Cableways

(See Wire Rope Tramways)

*Aftercoolers

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. Index & branch offices,
end of book)

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Atlas Mineral & Machine Co., Lincoln, N. J.
International Pulp Co., 41 Park row, New York
Williams, C. K. & Co., Easton, Pa.

Agitators

ALLIS-CHALMERS CO. (Mining),
Milwaukee, Wis. (See adv. Index & branch
offices, end of book)

Bellows Falls Machine Co. (For Paper Mills),
Bellows Falls, Vt.

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Treatment), Los Angeles, Cal.

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Empire bldg, Pittsburg, Pa.

Crossley Mfg. Co. (Clay), Trenton, N. J.
Day, J. H. & Co. (Liquid), 1144 Harrison av.,
Cincinnati, O.

Dopp, W. H. Co. (Soap Makers), Buffalo,
N. Y.

MacKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. Index, end
of book)

Perrin, M. R. & Co. (Lard), Loomis & 46th, U
Stock Yard, Chicago, Ill.

Pollock, M. B. Co. (Brewers), Youngstown, O.
Power & Mining Machinery Co., Cudahy, Wis.

Rice, Barton & Fales Machine & Iron Co. (For
Paper Mills), Worcester, Mass.

Ritter-Conley Mfg. Co. (Mining), 55 Water,
Pittsburg, Pa.

Schnlte & Koerting Co., 1251 N 12th, Phila.,
Pa.

Triumph lee Machine Co., 615 Baymiller, Cin-
cinnatl, O.

WETHERILL BROS. MACHINE CO.
(For Hydraulic Dredges), Chester, Pa. (See
adv. Index, end of book)

Agitators (Oil)

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. Index, end of
book)

GRAVER, WM. TANK WORKS, East
Ohio, Ind. (See adv. Index, end of book)

Hammond Iron Works, Warren, Pa.

PETROLEUM IRON WORKS CO.,
Sharon, Pa., & Farmers' Bank bldg, Pitts-
burg, Pa. (See adv. Index, end of book)

Struthers-Wells Co., Warren, Pa.

Agricultural Implement Mfrs.

For Sub-Classification of this Trade

See also Cultivators.

Cutters, Ensilage.

Cutters, Feed, etc.

Diggers, Various Kinds.

Drills, Various Kinds.

Engines, Traction.

Harrows, Various Kinds.

Harvesters, Various Kinds.

Hullers, Various Kinds.

Mills, Various Kinds.

Mowers & Reapers.

Planters, Various Kinds.

Plows, Various Kinds.

Presses, Hay & Baling.

Pullers, Stump.

Pumps, Various Kinds.

Rakes, Various Kinds.

Rollers, Land & Field.

Saw Mills, Portable.

Seeders & Sowers.

Self Feeders & Band Cutters for Threshers

Shellers, Corn.

Sickle & Mower Knife Grinders.

Slings, Hay.

Stackers, Various Kinds.

Tedders, Hay.

Threshers.

Tools, Haying.

Twine, Binder.

Weeders, Various Kinds.

Weighters, Loaders & Baggers, Grain.

Windmills.

For all other Implements, Machines, Tools,
etc., used for agricultural purposes, see Index
of Contents.

ALABAMA.

BIRMINGHAM—Continental Gin Co. (Cotton
Seed Linters)

BRIDGEPORT—De Loach Mill Mfg. Co. (Hay
Presses, Feed Mills)

ENSLEY—Empire Plow Co. (Office, Cleveland,
Ohio)

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tors)

ARKANSAS.

PARAGOULD—Roy Plow Co. (Plows, etc.)

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rows, Cultivators, Rakes, Rickers, Load-
ers & Stackers, Seeders & Sowers, etc.)

FRESNO—Fresno Agricultural Works (Inc.)
(Plows, Road Scrapers, etc.)

LOS ANGELES—Killefer-Griffith Mfg. Co. (Cul-
tivators)

OAKLAND—Brand, R. & Co., 521 2d

SAN FRANCISCO—Jackson, Byron Machine
Works (Horse Hay Forks, Rakes, Stack-
ers, Carriers, Harrows, Threshing Derricks,
etc.)

Krogh Mfg. Co. (Windmills, Tanks, Pumps,
etc.)

SAN JOSE—Anderson-Barngrover Mfg. Co.
(Plows & Pulverizers, Fruit Drying &
Curling Apparatus)

SAN LEANDRO—Best Mfg. Co. (Harvesters,
Binders, Traction Engines, etc.)

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ers, Traction Engines)

Houser & Haines Mfg. Co. (Grain Drills,
Combined Harvesters, Gang & Disk
Plows, Spike Tooth Harrows, etc.)

Shaw, H. O. & Co. (Harrows & Gang Plows)

COLORADO.

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ers, Rakes, Harrows)

GREELEY—Brown, Peter & Son (Potato Dig-
gers & Sorters)

PUEBLO—Mead Hay Press Co. (Harrows, Cul-
tivators)

CONNECTICUT.

HIGGANUM—Cutaway Harrow Co. ("Clark's"
Harrows, Plows, Root Cutters, etc.)

Scoville, D. & H. (Planters' Hoes)

NEW HARTFORD—Rogers Rake Co. (Hand
Hay Rakes)

NEW LONDON—Brown Cotton Gin Co. (Cot-
ton Seed Linters)

SOUTHPORT—Jelliff, C. O. Mfg. Corp. (Har-
rows & Onion Drills, Hoes, Pullers, etc.)

GEORGIA.

ATHENS—Umbach, F. G. (Harrows, etc.)

ATLANTA—Atlanta Agricultural Works (Plows,
Harrows, Cultivators, etc.)

Georgia Plow Works (Plows, Harrows, Cot-
ton Scrapers, etc.)

AUGUSTA—Wirtz & Hernien (Hay Presses,
Harrows, etc.)

COLUMBUS—Southern Plow Co. (Plows, Cul-
tivators, Harrows, Cotton Planters, etc.)

DALTON—Farrar Lumber Co. (Pea Hullers,
Hay Presses, etc.)

Nancy Hanks Hay Press Mfg. Co. (Hay
Presses, Pea Threshers, etc.)

Sanders Improved Hay Press Mfg. Co. (Hay
Presses, etc.)

Sanders Mfg. Co. (Pea & Bean Hullers)

HELENA—Tillman Mfg. Co.

MACON—Gault Mfg. Co. (Cotton Planters,
Fertilizers & Grain Drills, etc.)

Williams Buggy Co. (Hay Presses)

NEWMAN—Cole, R. D. Mfg. Co. (Corn Mills)

OCILLA—Sikes Mfg. Co. (Hay Presses)

ROME—Towers & Sullivan Mfg. Co. (Plows,
Harrows, Cultivators)

WINDER—Woodruff Hardware & Mfg. Co.
(Hay Presses, Pea Hullers, Threshers, etc.)

ILLINOIS.

ALBION—Painter & Frankland (Plows)

ALTON—Hapgood Plow Co. (Corn Planting
Drills, Plows, Listers, etc.)

ARLINGTON HEIGHTS—Kolling Husker &
Shredder Works (Corn Huskers, & Shred-
ders)

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Cookers, etc.)

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Drills, etc.)

Harrison Machine Works (Threshers, Straw
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Cultivators, Adjustable Hand)

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rows, Cultivators, Planters, Listers)

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Harrows, Feed Cutters)

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& Seed Separators)

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bell av., & 12th

Creamery Package Mfg. Co. (Dairy &
Creamery Machinery, etc.), 182 E Kinzie

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(Cultivators, Harrows, Mowers & Reapers,
Tedders, Binders, Rakes), 7 Monroe

KAESTNER & CO. (Inc.) (Feed
Mills Grinding), 241 S Jefferson. (See adv.
Index, end of book)

Masters Planter Co. (Hand Transplanters),
174 S Water

Pratt, W. E. Mfg. Co. (Dehorner, Seed
Sowers, etc.), 91 Lake

Smith Mfg. Co. (Manure Spreaders), 158 E
Harrison

Whitaker Mfg. Co. (Cultivators, Hay Car-
riers, etc.), 30 W Monroe

WHITMAN & BARNES MFG. CO.
(Garden Cultivators, etc.) (See adv. In-
dex, end of book)

DECATUR—Beall Improvements Co. (Seed
Corn Sorters)

Chambers, Bering, Quinlan Co. (Hay Load-
ers, Rakes, Planters, Check Rovers)

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ers, etc.)

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Shellers)

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& Diggers)

Stover Mfg. Co. (Feed Mills, Corn Shellers)

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& Cookers)

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Myers, C. H. & Co. (Disk Corn Planter
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ers, Corn Shellers, Fanning Mills, Feed
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 Colean Mfg. Co. (Threshers)
 Engel, J. A. & Co. (End Gate Seeders)
 Hart Grain Weigher Co. (Grain Weighers)
 Herschell, R. Mfg. Co. (Sickles, etc.)
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 Kingman Plow Co. (Plows, Harrows, Cultivators, Planters, Listers)
 Peoria Drill & Seeder Co. (Grain Drills, Seeders, etc.)
 Steel Weigher Co. (Grain Weighers, etc.)
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PINCKEYVILLE—Eaton Plow Works (V. A. Stookey & Son, Prop's) (Plows, Harrows)
PLANO—Independent Harvester Co. (Harvesters, Manure Spreaders, etc.)
 Sears, Albert H. (Harrows, Cultivators, etc.)
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 Electric Wheel Co. (Feed Cookers & Metal Wheels)
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 Ertel, Geo. Co. (Hay Presses, etc.)
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 Rockford Mfg. Co. (Plows, Harrows, Cultivators)
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SHELBYVILLE—Sturgis, W. B. & Son (Plows)
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 Spraul, Matt. (Corn Shredders)
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 Heinecke & Co. (Combination Wind & Rad-dle Stackers)
 Racine-Sattley Co. (Plows, Cultivators, Drills, Harrows, etc.)
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 Sterling Mfg. Co. (Harrows, Feed Mills, Hay Loaders, Rakes, Tedders, Planters, Seeders & Sowers)
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INDIANA.

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 National Drill Co. (Cultivators, Grain Drills, etc.)
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 Atkins, E. C. & Co. (Corn, Beet & Cane Knives)
 Indiana Mfg. Co. (Straw Stackers)
 Nordyke & Marmon Co. (Feed, Corn & Cob Mills, Fanning Mills, Corn Shellers, etc.)
 Prairie Mfg. Co. (Sowers, Cultivators & Garden Drills)
 Russell Wind Stacker Co. (Straw Stackers), 1001 Shelby
KENDALLVILLE—Flint & Walling Mfg. Co. (Feed Mills, Wind Mills, etc.)
LA PORTE—Rumley, M. Co. (Threshers, Stackers, Traction Engines, Hay Presses, Clover Hullers)
LIBERTY—Rude Bros. Mfg. Co. (Cultivators, Grain & Corn Drills, Rakes, etc.)
LOGANSPOUT—King Drill Co. (Grain Drills)
MARION—American Drill Co. (Grain Drills)
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 Perkins Wind Mill Co. (Feed Mills, Cutters, Corn Shellers)
MOUNT VERNON—Keck-Gonnermann Co. (Threshers, etc.)
NEW CASTLE—Safety Shredder Co. (Corn Husker & Fodder Shredder Combined)
NORTH MANCHESTER—Little Giant Seeder Co. (Hand Seed Sowers)
PERU—Spring Grain Drill Mfg. Co. (Grain Drills, etc.)
RICHMOND—American Seeding Machine Co. (See Springfield, O.)
 Eureka Fence Mfg. Co. (Hand Corn Planters)
 Gaar, Scott & Co. (Threshers, Stackers, Grain Weighers, Clover Hullers, Traction Engines)
 Hoosier Drill Co. (Grain Drills, etc.)
 Robinson & Co. (Threshers, Stackers, Grain Weighers)
 Wayne Works (Grain Drills, Planters, Seeders & Sowers)
RISEING SUN—Clare's, Wm. Sons (Plows, Cultivators)
SOUTH BEND—Birdsell Mfg. Co. (Straw Stackers, Clover Hullers, etc.)
 Bowsher, N. C. Co. (Feed Mills, Barley Crushers)
 Oliver Chilled Plow Works (Plows)
 South Bend Chilled Plow Co. (Plows, Harrows, Cultivators)
URBANA—Cyclone Seeder Co. ("Cyclone," "Chicago" & "Champion, Jr.") Seed Sowers)
VINCENNES—Hartman Mfg. Co. (Cultivators, etc.)

IOWA.

ATLANTIC—Ulbrick Seed Corn Tester Co. (Seed Corn Testers)
CEDAR FALLS—Monarch Self-Feeder Co. (Feeders, Stackers, etc.)
CEDAR RAPIDS—Myers, F. E. & Bro.
CENTERVILLE—Hercules Mfg. Co. (Feed Mills & Stump Pullers)
CHARLES CITY—Daley, M. H. (Disc Harrows)
COUNCIL BLUFFS—Children's, E. Sons Mfg. Co. (Cultivators, Grain Drills, Hay Stackers, Hay Rakes, etc.)
 Hay Tool Mfg. Co. (Hay Stackers, etc.)
 Walker Mfg. Co. (Hay Rakes, Stackers, etc.)
CRESCO—Caward, R. S. (Plows & Grubbing Machinery)
 Swenson Grubber Co. (Stump Pullers)
DAVENPORT—Voss Bros. Mfg. Co. (Corn Cutters)
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FAIRFIELD—Louden Machinery Co. (Hay Forks & Carriers, etc.)
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KNOWLTON—Ideal Farm Implement Co. (Corn Cutters & Shocks, etc.)
LONE TREE—Zimmerman Steel Co. (Stump Pullers, Pitless Wagon Scales, etc.)

NASHUA—Bloom Mfg. Co. (Manure Spreaders, Harrows, etc.)
NEWTON—Parsons Band Cutter & Self-Feeder Co. ("Buffalo" Hay Presses, Corn Huskers, "Parsons & Ruth" Band Cutters & Self-Feeders)
 Parsons Hawkeye Mfg. Co. ("Hawkeye" Grain Graders & Cleaners, Self-Feeders, Manure Spreaders, Hog Waterers, etc.)
OTTUMWA—Dain Mfg. Co. (Feed Mills, Hay Loaders, Haying Tools, Rake, Hay Presses)
 La Crosse Hay Tool Co. (Hay Loaders, Rakes & Stackers)
PELLA—Pella Stacker Co. (Straw Stackers, Band Cutters & Self Feeders)
PRAIRIE CITY—Dowden Mfg. Co. (Ltd.) (Harrows, Potato Diggers, etc.)
SHENANDOAH—Swanson, T. Mfg. Co. (Cultivators, Haying Tools, etc.)
SIOUX CITY—Morley Twine & Machinery Co. (Band Cutters & Self Feeders, & Feed Grinding Mills, etc.)
SPENCER—Maurer, F. X. Co. (Hay Presses)
WATERLOO—Bovee Grinder & Furnace Works (Feed Mills & Cookers)
 Cascaden Mfg. Co. (Feed Mills & Cookers)
 Corn King Feed Mill Co. (Feed Grinding Galloway, Wm. Co. (Harrows) Mills)
 Litchfield Mfg. Co. (Manure Spreaders, Hay Rakes, Farm Forges, Hay Stackers, etc.)
 Swift Mfg. Co. (Feed Mills & Cookers)
 Waterloo Gasoline Engine Co. (Feed Mills)
WAUKON—Johnson, John S. (Lever Harrows)
 Simonsen & Peterson (Plows)
WEBSTER CITY—Closz & Howard Mfg. Co. (Grain Separators, etc.)
WINFIELD—Hall Grain Grader Co. (Combination Corn Sorter, Grain Grader & Grass Seed Cleaner)

KANSAS.

CLAY CENTER—Clay Center Wind Mill & Foundry Co. (Sub-Soil Packers, Pulverizers & Rollers)
COFFEYVILLE—Coffeyville Implement & Mfg. Co. (Plows, etc.)
EDWARDSVILLE—Pearson Mfg. Co. (Potato Separators, etc.)
KANSAS CITY—Strait, H. N. Mfg. Co. (Hay Presses, Scales, etc.)
 Western Steel & Wire Co. (Hay Presses)
LEAVENWORTH—Great Western Mfg. Co. (Grain & Rice Cleaners)
MANHATTAN—Blue Valley Mfg. Co. (Feed Mills)
NEWTON—Prairie Queen Mfg. Co. (Threshers)
SALINA—New Process Mfg. Co. (Corn Cultivators & Corn Harvesters)
 Wyatt, F. Mfg. Co. (Hay Stackers)
STAFFORD—Milton Garvin Steam Plow Co. (Plows, etc.)
TOPEKA—Auto-Fedan Hay Press Co. (Hay Currie Windmill Co. (Feed Mills) Presses)
 Topeka Foundry (Sub-Surface Soil Packers)

KENTUCKY.

CARLISLE—King, R. O. Hardware Co. (Blue Grass Seed Strippers)
LOUISVILLE—Avery, B. F. & Sons (Inc.) (Plows, Harrows, Cultivators, Rakes, Planters, etc.)
 Brinly-Hardy Co. (Inc.) (Plows, Hand Corn Shellers, Cotton Scrapers & Sweeps, Harrows, etc.)
 Kentucky Drill Co. (Grain Drills, Corn Shellers, etc.)
MAYSVILLE—Hall, Jas. H. Plow Co. (Plows, Cultivators)
 Maysville Foundry, Machine & Marine Co. (Plows)

LOUISIANA.

AMITE—Gullett Gin Co. (Cotton Gins, Feeders & Condensers, etc.)
NEW ORLEANS—Boland Machine & Mfg. Co. (Rice Milling Machines & Rice Cleaners)

MAINE.

NORTH BERWICK—Hussey Plow Co. (Cultivators, Plows, etc.)
 Varney, J. B. Plow Co. (Plows)
PORTLAND—Frye, J. J. (Plows, Cultivators, Harrows)
SKOWHEGAN—Nolin Mfg. Co. (Scythes, etc.)

MASSACHUSETTS.

BARRE—Allen, Charles, G. Co.
BOSTON—Ames Plow Co. (Plows, Harrows, Cultivators, Rakes, Tedders, Planters, Fanning Mills, Feed Cutters), Quincy Hall

CHICOPEE FALLS—Belcher & Taylor Agricultural Tool Co. (Plows, Harrows, Fanning Mills, Cultivators, Planters, Tedders, Feed Cutters, Potato Diggers, etc.)
MILFORD—Mann, F. W. Co. (Corn Shellers, Clover Cutters, etc.)
WORCESTER—Richardson Mfg. Co. (Mowers, Rakes, Tedders)

MICHIGAN.

ADRIAN—Babcock Planter Co. (Hand Corn Planters)
ALBION—Gale Mfg. Co. (Plows, Harrows, Cultivators, Rakes, Planters, Listers, Seeders & Sowers)
ALMA—Little Giant Hay Press Co. (Hay Presses, etc.)
ALMONT—Lee, Rob't E. (Plows, Feed Cutters)
ANN ARBOR—Ann Arbor Machine Co. (Feed Cutters, Hay Presses, etc.)
BATTLE CREEK—Advance Thresher Co. (Grain Weighers, Threshers, Stackers)
Nichols & Shepard Co. (Threshers, Stackers, Grain Weighers)
BAY CITY—Valley Wind Engine & Iron Co. (Grinding Mills, etc.)
BLAINE—Fair & Sons (Plows)
BUCHANAN—Black, Geo. H. (Garden Cultivators)
BURR OAK—Sheffield Mfg. Co. (Corn & Potato Planters)
DETROIT—American Harrow Co. (Plows, Cultivators, Planters), 1482 Hastings
Campbell, Manson Co. (Fanning Mills), 103 Wesson av
DOWAGIAC—Dowagiac Mfg. Co. (Grain Drills, Seeders & Sowers)
GALIEN—Montross, Richard W. (Barley Forks)
GRAND LEDGE—Streeter, Hiram R. (Corn Shellers, etc.)
GREENVILLE—Greenville Implement Co. (Cultivators, Plows, Feed Cutters)
Moore Plow & Implement Co. (Plows, Cultivators)
HOLLY—Patterson & Brown Bros. Mfg. Co. (Bean Harvesters, Cultivators, etc.)
HOMER—Seeder Mfg. Co. (Seeders & Sowers)
JACKSON—Aspluwall Mfg. Co. (Potato Planters & Diggers, etc.)
KALAMAZOO—Clark Engine & Boiler Co. (Feed Cookers, etc.)
Johnson & Linhan (Fanning Mills, etc.)
Phelps & Bigelow Wind Mill Co. (Feed Cookers)
Reed Mfg. Co. (Cultivators, Seeders, etc.)
Smith & Pomeroy Windmill Co. (Feed Mills & Windmills)

LAPEER—Bostick Store Co. (Plows)
MONROE—Wilder-Strong Implement Co. (Harvesters, Plows, Feed Cutters)
MOUNT CLEMENS—Donaldson Bros. (Plows, Harrows, Cultivators, Planters, Feed Cutters)
NORTHVILLE—American Bell & Foundry Co. (Corn Shellers, Fruit & Potato Sorters, etc.)
PONTIAC—Bacon Mfg. Co. (Seeder, Bean Pickers & Garden Cultivators)
Howland, Ephraim & Sons (Plows, Harrows, Cultivators, Feed Cutters)
PORT HURON—Port Huron Engine & Thresher Co. (Plows, Threshers, Stackers, Feed Mills, Corn Shellers, Weighers)
SAGINAW—American Beet Harvester Co. (Beet Topper & Lifter)
Farmers' Handy Wagon Co. (Cultivators, Harrows, etc.)
Ferrell, A. T. & Co. (Bean Cleaners & Sorters)
Mitts & Merrill (Plows)
TECUMSEH—Heeson Bros. & Co. (Feed Cookers)
TRAVERSE CITY—Potato Implement Co. (Acine Corn & Potato Planters)
YPSILANTI—Thompson, Oliver E. & Sons (Root Cutters & Grass Seeders)

MINNESOTA.

ALBERT LEA—Edwards, C. D. (Stump Pullers)
AUSTIN—Johnson & Smith Co. (Plows, Harrows, etc.)
CROOKSTON—Maple Bay Mfg. Co. (Straw Stackers, etc.)
MINNEAPOLIS—Cleland Mfg. Co. (Fanning Mills)
Howell, R. R. & Co. (Harrows, Cultivators, Grain Drills & Feed Mills)
Kinnard-Haines Co. (Hay Presses, etc.)
Minneapolis Plow Works (Plows)
Minneapolis Threshing Machine Co. (Threshers, Stackers, Corn Shellers, Baggers, etc.)
Monitor Drill Co. (Grain Drills, Cultivators, Seeders & Sowers)

Owens, J. L. Co. (Fanning Mills, Grain Cleaning Machinery)
Twin City Separator Co. (Fanning Mills)
OWATONNA—Owatonna Fanning Mill Co. (Fanning Mills)
Owatonna Mfg. Co. (Grain Drills, Seeders & Sowers, Churns, etc.)
Sperry Mfg. Co. (Fanning Mills)
ST. LOUIS PARK—Martin, M. R. (Feeding Mills)
ST. PAUL—Anderson Company (Harrows, Rakes, Stackers, etc.)
Fosston Mfg. Co. (Wind Stackers)
Law Mfg. Co. (Hay Stackers, Forks, etc.)
SAUK CENTER—Keller Mfg. Co. (Harrows, Cultivators, Threshers, Fanning Mills, Sleds, etc.)
STILLWATER—Northwest Thresher Co. (Engines, Threshers, Stackers, Weighers, etc.)
WINONA—Diamond Huller Co. (Cottonseed Machinery, etc.)
New Winona Mfg. Co. (Feed Mills, Corn Shellers, Hay Presses, etc.)

MISSISSIPPI.

JACKSON—McDonnell Machine & Foundry Co. (Plows, etc.)
MERIDIAN—Hyde, Chas. J. (Hay Presses, etc.)

MISSOURI.

CAIRO—Boney, A. T. & Co. (Hay Stackers)
CHILLICOTHE—Jenkins Hay Rake & Stacker Co. (Feed Mills, Haying Tools, etc.)
HUNTSVILLE—Fleming & Sons Mfg. Co. (Haying Tools, Rakes, Stackers, etc.)
JONESBURG—Godfrey, H. M. (Walking Plows)
KANSAS CITY—Admiral Hay Press Co. (Hay Presses)
Eagle Mfg. Co. (Plows, Harrows, Cultivators, Listers)
Eclipse Hay Press Co. (Hay Presses, Stackers, Rakes, Stump Pullers, etc.)
Harhison & Modica Mfg. Co. (Corn Shellers, Cultivators, etc.)
Kansas City Hay Press Co. (Feed Mills, Hay Presses, Haying Tools, etc.)
Scott Hay Press Co. (Hay Presses)
Smith & Sons Mfg. Co. (Plows, Rakes, Hay Presses)
Tuller Cultivator Co. (Corn Cultivators)
Western Implement Mfg. Co. (Cultivators, Grain Drills)
LINNEUS—Superior Hay Stacker Mfg. Co. (Hay Stackers)
MACON—McCall Mfg. Co. (Hay Rakes & Stackers)
OLNEY—Stroker, Fitz C. (Plows)
ST. JOSEPH—Cartmell Machine Co. (Threshers, etc.)
McCargar, L. B. Feed Mill Co. (Grinding Mills, etc.)
St. Joseph Plow Co. (Plows, Cultivators, Harrows, etc.)
ST. LOUIS—Anderson, J. H. & Co. ("Boss" Hand Cultivator & Potato Digger)
Christen, F. & Sons (Seed Sowers, etc.)
Kingsland Mfg. Co. (Threshers, Corn Shellers, etc.)
Macgowan & Finigan Foundry & Machine Co. (Pulverizers & Rollers, Feed Grinders, etc.)
Myers, F. E. & Bro.
Seymour Mfg. Co. (Grain Cradles)
Weber Implement Co. (Mowers)
Whitman Agricultural Co. (Harrows, Grain Drills, Feed Mills, Corn Shellers, Seeders & Sowers, Feed Cutters, Hay Presses)
SEDALIA—Barley, Thos K. (Harrows, Haying Tools, etc.)
SWEET SPRINGS—Fischer, Conrad (Harrows)
TARKIO—Midland Mfg. Co. (Plows, etc.)
UNIONVILLE—Staleup Mfg. Co. (Hay Stackers)
WASHINGTON—Buhr Mfg. Co. (Plows)

NEBRASKA.

BEATRICE—Dempster Mill Mfg. Co. (Cultivators, Grain Drills, etc.)
DAVID CITY—Barker Mfg. Co. (Garden Weeds)
LINCOLN—Nebraska Mfg. Co. (Potato, Corn & Cotton Planters)
NEBRASKA CITY—King Drill Mfg. Co. (Grain Drills)
OMAHA—International Mfg. Co. (Hay Presses)

NEW HAMPSHIRE.

ALSTEAD—Lufkin, C. M. (Plows)
ANTRIM—Goodell Co. (Hand Seed Sowers, Weed Diggers)
HINSDALE—Granite State Mowing Machine Co. (Mowers)

NEW JERSEY.

GRENLOCH—Bateman Mfg. Co. (Plows, Harrows, Cultivators, Planters, etc.)
HIGHTSTOWN—Peppler, Thos. (Plows, Corn Shellers, etc.)
MILLINGTON—Nash, Duane H. (Pulverizers, Harrows, Clod Crushers, Planters, etc.)
NEWTON—Farrell, John & Son (Hay Forks & Carriers)
PHILLIPSBURG—Drinkhouse, F. F. (Feed & Fodder Cutters)
RIVERTON—McWhorter Mfg. Co. (Seed Drills, Bean, Peanut & Potato Planters)
TRENTON—Butterworth, Wm. H. & Bro. (Threshers, etc.)

NEW YORK.

ALBANY—Dedericks, P. K. Sons (Hay Presses)
AUBURN—Bowen & Quick (Threshers, etc.)
International Harvester Co. of America (Cultivators, Harrows, Mowers & Reapers, Rakes, Tedders, Binders, etc.), Osborne Plant (See Chicago, Ill.)
AVON—Champion Drill Co. (Cultivators, Grain Drills, etc.)
BATAVIA—Bidwell, C. H. Thresher Co. (Inc.) (Bean Threshers, etc.)
Johnston Harvester Co. (Binders, Cultivators, Harrows, Mowers, Reapers, Rakes, Tedders, Seeders & Sowers)
Wiard Plow Co. (Plows, Harrows, Rakes, Planters, etc.)
CALEDONIA—Caledonia Bean Harvester Works (Cultivators, Planters, etc.)
CAMBRIDGE—Lovejoy Co. (Plows, Harrows, Cultivators, Planters, etc.)
CANANDAIGUA—Davidson, A. Foundry Co. (Plows, etc.)
CANASTOTA—Patten & Stafford Co. (Harrows, Rakes, etc.)
CASTILE—Castile Chilled Plow Co. (Plows, Harrows & Cultivators)
CATO—Dutton, E. Q. & Co. (Plows, Feed Mills)
CENTRAL BRIDGE—Campbell, S. K. Co. (Threshers)
CHAMPLAIN—Champlain Agricultural Works (Plows, Cultivators, Harrows, etc.)
COBLESKILL—Harder Mfg. Co. (Threshers, Fanning Mills, Manure Spreaders, etc.)
COPAKE IRON WORKS—Columbia Plow Works (Plows, etc.)
CORNING—Allen, E. R. Foundry Co. (Potato Diggers, etc.)
DANSVILLE—Sweet, George Mfg. Co. (Mowers & Reapers)
DESPATCH—Ontario Drill Co. (Grain Drills)
EAST AURORA—Peck, S. H. (Plows, Potato Planters & Diggers, etc.)
FULTON—Emeny, G. J. Co. (Feed Cutters)
FULTONVILLE—Fultonville Mfg. Co. (Hay Carriers)
GOWANDA—Gowanda Agricultural Works (Plows, Cultivators, etc.)
GREENE—Lyon Iron Works (Feed Cutters)
GREENWICH—Eddy, W. Plow Co. (Threshers, Plows, etc.)
HAMMOND—Evans Mfg. Co. (Harrows & Plows)
HILLSDALE—Mallery, W. A., Jr. (Plows, Harrows, etc.)
HONEOYE FALLS—Honeyo Falls Mfg. Co. (Bean Cleaners, etc.)
HOOSICK FALLS—Wood, Walter A. Mowing & Reaping Machine Co. (Mowers, Reapers, Binders, Rakes, Tedders, etc.)
ITHACA—Williams Bros. (Rakes, Broadcast Sowers, etc.)
KINGSTON—Hendricks, D. B. & Co. (Hay Presses)
LEONARDSVILLE—Bahcock Mfg. Co. (Harrows, Cultivators, etc.)
LEROY—Leroy Plow Co. (Plows, etc.)
LIMA—Papee Machine Co. (Feed Cutters)
LOCKE—Robison, Geo. E. (Hay Rakes, etc.)
LYONS—Aul, Henry & Son (Fanning Mills)
Nagley Mfg. Co. (Tobacco Transplanters, Presses, etc.)
MACEDON—Bickford & Huffman Co. (Grain Drills)
MERIDIAN—Everts & Co. (Plows)
MOUNT MORRIS—Genesee Valley Mfg. Co. (Harrows, Grain Drills, Corn Shellers, Fanning Mills)
MUNNSVILLE—Munnsville Plow Co. (Plows)
OLEAN—Chamberlin Mfg. Co. (Stump Pullers)
OWEGO—Champion Wagou Co. (Grain Drills, etc.)
PHELPS—Crown Mfg. Co. (Grain Drills, etc.)
POUGHKEEPSIE—Adriance, Platt & Co. (Harrows, Mowers, Reapers, Binders, Rakes, etc.)
Chapinville Wheel Co. (Sulky Hay Rakes, Weeders, Harrows, etc.)
RIVERHEAD—Hudson, S. T. (Harrows)
ROCHESTER—Ricker Mfg. Co. (Hay, Feed & Litter Carriers)

ST. JOHNSVILLE—Clark Macbine Co. (Threshers)
 SCHENECTADY—Westinghouse Co. (Threshers, Stackers, Weighers)
 SENECA FALLS—Gould Mfg. Co.
 Runsey & Co.
 SHORTSVILLE—Star Seeder Co. (Force Feed Wheelbarrow Grass Seeder)
 SPENCERPORT—Ireland & Helfrich (Potato Diggers)
 SYRACUSE—Engelburg Huller Co. (Rice Graders, Threshers, Separators, Hullers, Bean Hullers, etc.)
 Kemp & Burpee Mfg. Co. (Manure Spreaders)
 Syracuse Chilled Plow Co. (Plows, Harrows, Cultivators, Potato Hillers & Diggers, etc.)
 TROY—Grant-Ferris Co. (Threshers, Grain Drills, Seeders & Fanning Mills)
 TRUMANSBURG—Almy, Sam'l & Son (Rollers, Plows, etc.)
 UTICA—Davidson Harrow Co. (Harrow)
 Eureka Mower Co. (Cultivators, Mowers, Planters, etc.)
 Munson Bros. Co. (Feed Mills)
 Smith, D. B. & Co.
 Standard Harrow Co. (Harrow, Cultivators, Corn Shellers, etc.)
WARSAW—WARSAW ELEVATOR CO.
 (Bean, Pea & Corn Planters, etc.) (See adv. index, end of book)
 Warsaw-Wilkinson Co. (Ensilage, Feed & Fodder Cutters)
 YOUNGSTOWN—Ripson, Wm. & Son (Plows, Harrows, Cultivators)

NORTH CAROLINA.

CHARLOTTE—Cole Mfg. Co. (Cotton Planters)
 Liddell Co. (Cotton Ginning, Cleaning & Baling Machinery, etc.)
 GOLDSBORO—Wayne Agricultural Wks (Plows, etc.)
 GREENSBORO—Glasscock Stove & Mfg. Co. (Feed Cutters)

NORTH DAKOTA.

HUNTER—Disc Grader & Plow Co. (Plows, etc.)

OHIO.

AKRON—Akron Cultivator Co. (Cultivators, Plows, Harvesters, Bean, Corn, etc.)
WHITMAN & BARNES MFG. CO.
 (Garden Cultivators, etc.) (See adv. index, end of book)
 ASHLAND—Myers, F. E. & Bro.
 AVERY—Hoover Mfg. Co. (Potato Diggers & Sorters)
 BELLEVUE—Jeschke Mfg. Co.
 Ohio Cultivator Co. (Cultivators, Plows, Harrows, Planters, Listers, etc.)
 BEREIA—Dunham, J. W. & Son (Harrows, Corn Shellers, etc.)
 BOWLING GREEN—Thornburgh Mfg. Co. (Hay Loaders, Garden Cultivators, Plows, Drills, etc.)
 BRYAN—Bryan Plow Co. (Plows, Harrows, etc.)
 BUCYRUS—Shunk Plow Co. (Plows, Handy Steel Farm Wagons, etc.)
 CANAL FULTON—Fulton Machine Co. (Roller & Pulverizer combined, etc.)
 CANTON—Bucher & Gibbs Plow Co. (Plows, Harrows, Cultivators & Land Rollers)
 Canton Foundry & Machine Co. (Hay Tools)
 Dick, Jos. Agricultural Works (Fodder Cutters, etc.)
 Kohler, F. E. & Co. (Hand Corn Planters)
 Ney Mfg. Co. (Hay Carriers, etc.)
 Ney, V. L. Co. (Hay Carriers, etc.)
 Swineford, G. A. Co. (Hay Carriers, etc.)
 CINCINNATI—Blymyer Iron Works Co. (Coffee & Rice Machinery, etc.)
 Straub Machinery Co. (Feed Mills, Corn Shellers, etc.), 1940 W 6th
 CLEVELAND—American Fork & Hoe Co. (Weeders, Grain Cradles, Forks, Hoes, etc.)
BARTLETT, C. O. & SNOW CO.
 (Feed Mills, Corn Shellers, etc.) (See adv. index, end of book)
 Emple Plow Co. (Plows, Harrows, Cultivators, etc.) Works: Ensley, Ala.
 COLUMBIANA—Enterprise Mfg. Co. (Feed Mills, etc.)
 COLUMBUS—Kilbourne & Jacobs Mfg. Co. (Scrapers), hd of Lincoln
 CRESTLINE—Burch Plow Wks Co. (Plows, etc.)
 DAYTON—Ohio Rake Co. (Harrows, Hay Loaders, Planters, Rakes, Tedders, Corn Shell-Parrott Mfg. Co. (Plows, Seeders)
 DOYLESTOWN—Sleberling & Miller Co. (Mowers, Reapers, Binders, Harvesters, etc.)
 FREMONT—Lehr Agricultural Co. (Cultivators, Harrows, etc.)
 GALENA—Hughes & Smythe (Revolving Rakes, Corn Planters, etc.)

GERMANTOWN—Emrick, D. P. (Plows, Harrows & Tobacco Presses)
 HAMILTON—Deuscher, H. P. Co. (Harrows, Pulverizers, Cultivators, Rakes, Planters)
 Long & Allstatter Co. (Cultivators, Rakes, Harrows, Planters, Plows, Feed Cutters, etc.)
 HARRISON—Campbell Corn Drill Co. (Corn Drills, etc.)
 HILLSBORO—Bell, C. S. Co. (Feed Mills, Cane Mills, etc.)
 JACKSON—Jackson Mfg. Co. (Plows, Cultivators, etc.)
 KENT—Peterson Mfg. Co. (Pulverizers & Clod Crushers)
 LANCASTER—Eagle Machine Co. (Feed Mills, Hand Planters, Corn Shellers, Feed Cutters)
 Hocking Valley Mfg. Co. (Corn Shellers, Hay Rakes, Tedders & Loaders, Feed Cutters)
 MADISON—Genung, C. W. (Garden Seed Drills & Cultivators)
 MALTA—Brown-Manly Plow Co. (Plows, Cultivators, etc.)
 MANSFIELD—Aultman & Taylor Machinery Co. (Threshers, Stackers, Clover Hullers)
 Lean, Roderick Mfg. Co. (Harrows, etc.)
 Union Foundry & Machine Works (Corn & Cob Mills, Grinding Mills, etc.)
 MARIA STEIN—New Idea Spreader Co. (Manure Spreaders)
 MARIETTA—Marietta Mfg. Co. (Plows, etc.)
 MARION—Huber Mfg. Co. (Threshers, Stackers, Weighers, Engines, etc.)
 Implement Mfg. Co. (Hay Rakes)
 MARTINSVILLE—West & Townsend (Cultivators)
 MASSILLON—Harrison, W. R. & Co. (Fodder Cutters, etc.)
 Russell & Co. (Threshers, Stackers, etc.)
 MOUNT GILEAD—Mobile Implement Mfg. Co. (Garden Cultivators, Plows, etc.)
 NAPOLEON—Heller-Aller Co. (Feed Cookers, Farm Boilers, Hog Scalders, Hog Water-terers, etc.)
 Napoleon Mfg. Co. (Threshing Machines, etc.)
 NEWARK—Newark Machine Co. (Straw Stackers, Clover Hullers, Fanning Mills)
 NEW BREMEN—Lanfersieck & Grothaus Co. (Plows)
 NEW LEXINGTON—Star Mfg. Co. (Feed Mills & Powers, etc.)
 NEW PHILADELPHIA—Spicer Mfg. Co. (Cultivators, etc.)
 NORTH FAIRFIELD—Fairfield Plow Works (Plows)
 ORRVILLE—Champion Thresher Co. (Harrows, Threshers, etc.)
 PAINESVILLE—Vrooman, W. F. & Son (Onion Sorting & Topping Machinery)
 PIQUA—Blaine Harrow Mfg. Co. (Harrows)
 PLYMOUTH—Root Bros. Co. (Hand Corn Shellers)
 SALEM—Silver Mfg. Co. (Feed Mills, Feed Cutters)
 SANDUSKY—Klotz Machine Co. (Corn Shellers, etc.)
 SPRINGFIELD—American Seeding Machine Co. (Grain Drills, Seeders & Sowers Broadcast, Disk, Harrows, etc.)
 Bayley, Wm. Co. (Feed Mills, Hand Grist Mills & Corn Shellers)
 Buckeye Feed Mill Co. (Feed Mills, Corn Harvesters, etc.)
 Foos Mfg. Co. (Corn Harvesters, etc.)
 Kelly, O. S. Co. (Feed Grinding Mills, etc.)
 Mast, Foos & Co. (Lawn Mowers, Wind Engines, Pumps, etc.)
 Roberts, Thos. (Feed Mills)
 Ross, E. W. Co. (Feed, Fodder & Ensilage Cutters, Manure Spreaders, etc.)
 Superior Drill Co. (Grain Drills)
 Thomas Mfg. Co. (Grain Drills, Hay Loaders, Rakes, Tedders, etc.)
 Victor Feed Mill Co. (Feed Mills)
 SWANTON—Baker, A. D. Co. (Threshers)
 TIFFIN—Tiffin Wagon Co. (Corn Shellers, etc.)
 TOLEDO—Side Delivery Buncher Co. (Clover Bunchers & Hay Windrowers)
 Toledo Plow Co. (Plows, Cultivators, etc.)
 UPPER SANDUSKY—Ohio Mfg. Co. (Hay Presses, Feed Mills, etc.)
 URBANA—Bechtolt, Geo. E. (Plows)
 WAPAKONETA—Gunther & Lyman (Seed Cleaners & Separators, etc.)
 WESTERVILLE—Bennett, H. L. & Co. (Corn Harvesters, Stump Pullers, etc.)
 WEST MANCHESTER—Rollman, E. A. (Trans-Planting Machines)
 ZANESVILLE—Brown Mfg. Co. (Plows, Harrows, Cultivators, etc.)

PENNSYLVANIA.

CARNEGIE—Carnegie Plow & Mfg. Co. (Plows, Pulverizers, Land Rollers, etc.)
 CLEONA—Imboden Harrow & Roller Co. (Harrow & Land Roller Combined)
 DOYLESTOWN—Doylestown Agricultural Works (Threshers, Fodder Cutters)
 EASTON—Wilson Bros. (Feed Mills, Feed Cutters)
 ELIZABETHTOWN—Buch's, A. Sons Co. (Corn Shellers, Fanning Mills, Feed Cutters)
 ELYSBURG—Deshay, D. H. (Corn Plows, Potato Diggers, etc.)
 GREENCASTLE—Walk, Henry S. (Grain Cradles, Rakes, etc.)
 HAMBURG—Hamburg Plow Works (Plows, Potato Diggers)
 HARRISBURG—Reist, J. B. & Son (Fanning Mills)
 INDIANA—Indiana Foundry Co. (Feed Cutters)
 LANCASTER—Dellinger, A. M. (Feed Grinding Mills, etc.)
 LANSDALE—Heebner & Sons (Threshers, Harrows, Feed Mills, Feed Cutters)
 LERAYSVILLE—Bailey, E. Martin (Plows, etc.)
 MARTINSBURG—Martinsburg Fdry Co. (Plows)
 MECHANICSBURG—Comstock, Geo. S. (Rakes, Feed Cutters)
 MIFFLINBURG—Albright, J. H. & Sons (Harrows, Cultivators, Rakes, Feed Cutters)
 MOUNTVILLE—Mountville Mfg. Co. (Plows, Planters, Corn Shellers, etc.)
 MUNCY—Sprout, Waldron & Co. (Feed Mills, Corn Shellers, etc.)
 NEW HOLLAND—New Holland Machine Co. (Feed Mills)
 NEW OXFORD—Weaver Mfg. Co. (Stock Troughs, Steel)
 NORRISTOWN—Rittenhouse, C. & Sons
 OAKHALL STATION—Sellers, Edward (Corn Planters, Feed Cutters & Land Rollers)
 ORANGEVILLE—Orangeville Agricultural Works, (Threshers, Feed & Ensilage Cutters, etc.)
 PHILADELPHIA—Allen, S. L. & Co. ("Planet, Jr.," Cultivators, Planters, Seeders), 1107 Market
 PITTSBURG—Ajax Mfg. Co. (Feed Grinding Mills, etc.), 348 Jackson
 Straub, A. W. & Co. (Feed Mills, etc.), 3737 Filbert
 POTTSTOWN—Ellis Keystone Agricultural Wks (Threshers, Feed Cutters)
 READING—Lessig, Chas. (Feed Cutters)
 Lessig, Geo. D. (Feed Cutters)
 SNYDESVILLE—Marsh, E. B. Bro. & Co. (Plows, Threshers, etc.)
 TATAMY—Messenger Mfg. Co. (Planters, Tedders, Threshers, Feed Cutters)
 WAYNESBORO—Frick Co. (Threshers, Stackers, Shellers, Traction Engines)
 Geiser Mfg. Co. (Threshers, Plows, Weighers, Baggers, Clover Hullers, Tr. Engines)
 YORK—Farquhar, A. B. Co. (Ltd.) (Threshers, Plows, Grain Drills, Feed Mills, Planters, Corn Shellers, Engines, Feed Cutters)
 Flinchbaugh Mfg. Co. (Feed Mills)
 Hensch & Dromgold Co. (Plows, Harrows, Cultivators, Grain Drills, Feed Mills, Planters, Corn Shellers, Seeders, Feed Cutters, etc.)
 Keystone Farm Machine Co. (Plows, Harrows, Cultivators, Feed Mills, Planters, Corn Shellers, Feed Cutters)
 Root, B. M. Co. (Corn Planters)
 Spangler Mfg. Co. (Harrows, Grain Drills, Planters, Feed Cutters)

SOUTH CAROLINA.

BENNETTSVILLE—Star Pea Machine Co. (Pea Threshers, etc.)

SOUTH DAKOTA.

SIOUX FALLS—Sioux Falls Plow Co.
 WATERTOWN—Lee Bros. (Plows, Harrows, etc.)

TENNESSEE.

CHATTANOOGA—Chattanooga Implement & Mfg. Co. (Hay Presses, Plows & Cultivators)
 Chattanooga Plow Co. (Plows, Cane Mills, Evaporators, Cotton & Corn Planters, etc.)
 Ross-Meehan Foundry Co. (Feed Cutters)
 Sanders, Newell Plow Co. (Plows)
 CLARKSVILLE—Ground Hog Plow & Foundry Patch, A. H. (Corn Shellers)
 Co.
 HARRIMAN—Harriman Hoe & Tool Co.
 Harriman Mfg. Co. (Plows, Cotton Planters, Harrows, Feed Mills)
 JACKSON—Wells-Jones Plow Co. (Plows)
 MEMPHIS—Ellis, Wm. C. & Son (Cotton Seed Cleaners)

TEXAS.

BRENHAM—Schurenberg, F. W. (Plows)
 BRYAN—Chatham Machinery Co. (Feed Mills)
 DALLAS—Murray Co. (Cotton Gins, Presses,
 Southern Plow Co. (Plows, etc.)
 Texas Disc Plow Co. (Plows)
 LONGVIEW—Kelly, G. A. Plow Co. (Plows)

VERMONT.

BARTON—Murkland, Jno. W. (Plows)
 BELLOWS FALLS—Derby & Ball (Grain
 Cradles)
 BROOKFIELD—Peck, Clark & Co. (Drag Rakes,
 Agricultural Forks, etc.)
 MIDDLETOWN SPRINGS—Gray's, A. W. Sons
 (Threshers, etc.)
 RICHFORD—Richford Foundry & Machine Co.
 (Plows, Cultivators, Weeders & Land Rol-
 lers)
 ST. ALBANS—St. Albans Foundry & Imple-
 ment Co. (Stump Pullers, Fodder Cutters,
 Threshers, etc.)
 WOODSTOCK—Daneels Machine Co. (Feed Out-
 ters)

VIRGINIA.

ALEXANDRIA—May, Wm. H. & Son (Plows)
 CHARLOTTESVILLE—Harris, R. F. & Co.
 CHRISTIANBURG—Christiansburg Chilled
 Plow & Machine Works (Chilled Plows,
 etc.)
 FREDERICKSBURG—Hunter, Chas. E. (Plows)
 LYNCHBURG—Lynchburg Foundry Co. (Plows)
 NORFOLK—Billups, C. Son & Co. (Plows, Har-
 rows, Cultivators, Corn Shellers, Fanning
 Mills)
 White, S. R. & Bro. (Plows, Cultivators,
 Planters, Corn Shellers & Feed Cutters)
 Whitehurst, R. W. Co. (Plows, Hay Presses)
 PETERSBURG—Ayers, J. R. (Peanut & Cotton
 Planters, etc.)
 RICHMOND—Call-Watt Co. (Plows)
 Cardwell Machine Co. (Threshers, Planters,
 Feed Cutters, Horse Powers, Hay Presses)
 Starke's Dixie Plow Works (Ashton Starke,
 Prop.) (Plows, etc.)
 STAUNTON—Leader Plow Co. (Garden Plows)
 SUTHERLIN—Kerns, H. O. (Plows)

WASHINGTON.

WALLA WALLA—Hunt, Gilbert Co. (Threshers)
 Washington Weeder Works (Weeder Cultivators)

WISCONSIN.

APPLETON—Becker, J. E. (Plows)
 Double Power Mill Co. (Feed Mills & Corn
 Huskers)
 Eagle Mfg. Co. (Ensilage & Fodder Cut-
 ters)
 BEAVER DAM—Beaver Dam Mfg. Co. (Seeders)
 Rowell, J. S. Mfg. Co. (Cultivators, Grain
 Drills, Rakes, Seeders, Fanning Mills)
 BELOIT—Thompson, J. & Sons Mfg. Co. (Plows,
 Harrows, Cultivators, Planters, Listers,
 Rakes, Seeders)
 BRANDON—Sherwin, E. C. & Son (Harrows)
 BRILLION—Brillion Iron Works (Plows, Clod
 Crushers & Land Rollers)
 CUDAHY—Steitz, J. R. (Potato Planters, etc.)
 EAU CLAIRE—Anderson Mfg. Co. (Plows
 Harrows, etc.)
 Northwestern Steel & Iron Works (Culti-
 vators, Plows, Harrows, etc.)
 EVANSVILLE—Baker Mfg. Co. (Feed Mills,
 Windmills, etc.)
 FOND DU LAC—Fond du Lac Implement Co.
 (Harrows, Grain Drills, Rakes, Seeders)
 Glasow, Fred. (Plows)
 FORT ATKINSON—Kent Mfg. Co. (Hand Potat-
 o & Corn Planters)
 Pounder, Geo. H. (Harrows)
 HARTFORD—Hartford Plow Works (Plows,
 Harrows, Cultivators, Feed Cutters)
 HORICON—Van Brunt Mfg. Co. (Cultivators,
 Grain Drills, Seeders, etc.)
 JANESVILLE—Janesville Machine Co. (Grain
 Drills, Plows, Harrows, Cultivators, Mow-
 ers, Listers, etc.)
 Kent Corn Planter Co. (Corn Planters, etc.)
 Strickler Hay Tool Co. (Haying Tools)
 JEFFERSON—Vaugan Mfg. Co. (Harrows,
 Grain Mills, etc.)
 KAUKAUNA—Solar Mfg. Co. (Fanning Mills)
 KEWAUNEE—Hamacek, Frank (Plows, Feed
 Mills, Feed Cutters)
 LA CROSSE—Clty Plow Co. (Plows, etc.)
 Egan Mfg. Co. (Potato Diggers)
 La Crosse Plow Co. (Plows, Harrows, Culti-
 vators, Grain Drills, Listers, Seeders)
 Smith, W. Grubber Co. (Stump Pullers)
 Smith Mfg. Co. (Stump Pullers)

MADISON—American Plow Co. (Plows, Cultiva-
 tors, etc.)

Fuller & Johnson Mfg. Co. (Plows, Har-
 rows, Cultivators, Planters, Rakes, etc.)
 MANITOWOC—Gaterman Mfg. Co. (Canada
 Thistle Cutters & Clover Bunchers)
 Smalley Mfg. Co. (Corn Shellers, Plows,
 Feed Cutters)

MARINETTE—Stevens, A. W. Co. (Threshers,
 Engines, Wind Stackers, Corn Shellers,
 etc.)

MAYVILLE—Zillisch, A. T. (Harrows, Feed Cut-
 ters)

MENOMONEE FALLS—Rowell, I. B. Co.
 (Plows, Harrows, Cultivators, Feed Cut-
 ters)

MILWAUKEE—Dorsch, John & Sons (Potato
 Hiller & Digger Combined)

Hirsch Bros. (Fanning Mills), 267 Reed
 Lindsay Bros. (Band Cutters & Self Feeders,
 etc.)

Milwaukee Hay Tool Co. (Corn Huskers,
 Fodder Shredders & Haying Tools), Lay-
 ton Park

PORT WASHINGTON—Western Malleable &
 Grey Iron Mfg. Co. (Feed Mills, etc.)

RACINE—Belle City Mfg. Co. (Feed & Ensilage
 Cutters, Horse Powers, etc.)

Case, J. I. Plow Works (Plows, Harrows,
 Cultivators, Planters, Listers, etc.)

Case, J. I. Threshing Machine Co. (Thresh-
 ers, Stackers, Weighers, etc.)

Dickey, A. P. (Corn Shellers, Fanning Mills)
 Foster & Williams Mfg. Co. (Drag Rakes,
 Seeders, Fanning Mills, Feed Cutters)

Freeman, S. & Sons Mfg. Co. (Corn Shellers,
 Seeders, Fanning Mills, Windmills, Feed
 Cutters, etc.)

Johnson & Field Mfg. Co. (Seeders, Fanning
 Mills, Land Rollers, etc.)

Wabers, H. H. Mfg. Co. (Hand Corn &
 Potato Planters)

RIPON—Hazen, Wayne S. (Harrows)
 SHEBOYGAN—Blocki, F. Co. (Clover Bunchers,
 Pea Harvesters, etc.)

Globe Foundry & Machine Co. (Feed Mills &
 Feed Cutters)

SOUTH MILWAUKEE—Stowell Mfg. & Foundry
 Co. (Haying Tools, etc.)

SPARTA—Sparta Iron Works Co. (Stump Pull-
 ers)

SUPERIOR—Duplex Mfg. Co. (Feed Mills, etc.)
 WATERLOO—Drew Elevated Carrier Co. (Feed
 & Litter Carriers)

WAUPUN—Althouse-Wheeler Co. (Feed Mills,
 Olson, O. C. (Plows)

WAUSAU—Wausau Foundry & Machine Co.
 (Feed Cutters)

WEST ALLIS—Rosenthal Husker Co. (Huskers
 & Shredders "Corn")

WEST BEND—Gehl Bros. Mfg. Co. (Feed &
 Fodder Cutters, Corn Shellers, Hay Ted-
 ders, Harrows, etc.)

Young Loader Co. (Manure Loaders)

Agricultural Implement Parts

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)

Empire Plow Co. (Cultivator, Attachments,
 Clevises, Coulters, Grain Drill Points, etc.)

Havana Metal Wheel Co. (Plow Shares, Points,
 Lister Shares, Sub-Soilers, etc.), Havana,
 Ill.

Mason, F. C. & Co. (Potato Digger Blades, Har-
 row Shoes, etc.), St. Johns, Mich.

Air Brake Fittings

(See Fittings, Air Brake)

*Air Brake Storage System

WESTINGHOUSE TRACTION BRAKE
 Co., Pittsburg, Pa.

Air Brakes

(See Brakes, Air)

Air Chambers (Seamless Copper)

Naugatuck Mfg. Co., Naugatuck, Conn.
 Hercules Float Works, Springfield, Mass.

Air Compressors

(See Compressors, Air)

*Air Cooling & Purifying Apparatus

THOMAS & SMITH (Inc.) ("Thomas-
 Acme" System), 17 S Carpenter, Chicago,
 Ill., & 288 Hudson, New York. (See adv.
 index, end of book)

*Air Cushions (Saw Mill Carriage)

KILGORE-PETELER CO., Minneap-
 ois, Minn. (See adv. index, end of book)

Air Hoists

(See Pneumatic Hoists)

*Airlocks (Sewerage)

MERRITT & CO., 94 Arch, Camden,
 N. J. (See adv. index, end of book)

*Air Motors & Air Hoisting Machinery

DETROIT HOIST & MACHINE CO.,
 Detroit, Mich. (See adv. index, end of
 book)

AIR MOTORS & AIR HOISTING Machinery

DETROIT HOIST & MACHINE CO
DETROIT, MICH.

Air Receivers

American Air Compressor Works, 26 Court-
 landt, New York

Bury Compressor Co., Erie, Pa.

Casey-Hedges Co., Chattanooga, Tenn.

Chicago Pneumatic Tool Co., Fisher bldg, Chi-
 cago, Ill.

CLAYTON AIR COMPRESSOR WORKS,
 115 B'way, New York. (See adv. index &
 branch offices, end of book)

FAIRBANKS, MORSE & CO., Wabash
 av & Eldredge pl., Chicago, Ill. (See adv.
 index & branch offices, end of book)

GARDNER GOVERNOR CO., Quincy,
 Ill. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way,
 New York. (See adv. index & branch offices,
 end of book)

KEWANEE BOILER CO., Kewanee,
 Ill., & 35 Michigan av, Chicago, Ill. (See
 adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)

LIDLAW-DUNN-GORDON CO., 115
 B'way, New York; Works: Cincinnati, O.
 (See adv. index & branch offices, end of book)

Leyner, J. Geo. Engineering Works Co., Little-
 ton, Colo.

McKiernan Drill Co., 170 B'way, New York

MACKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index, end
 of book)

PETROLEUM IRON WORKS CO.,
 Sharon, Pa., & Farmers' Bank bldg, Pitts-
 burg, Pa. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, O.

Power & Mining Machinery Co., Cudahy, Wis.

SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburg, Pa. (See adv. index, end of
 book)

Sullivan Machinery Co., Railway Exch bldg,
 Chicago, Ill.

Underwood, H. B. & Co., 1025 Hamilton, Phila.,
 Pa.

Wilks, S. Mfg. Co., 35th c Shields av, Chica-
 go, Ill.

WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of
 book)

Alarms (Burglar)

Ansonia Electrical Co., Ansonia, Conn.
 Benjamin, Geo. P. 81 Fulton, New York
 Boston Electric Co., 29 Harrison av., Boston
BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
 Dayton Supply Co., Dayton, O.
 Einbighler, Rudolf, 56 New, New York
 Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
 Earl Electric Co., Akron, O.
 Heath Electric Co., 336 Grand River av., Detroit, Mich.
 Herzog Teleseme Co., 137 W 23d, New York
 Holmes Elec. Protective Co., 26 Cortlandt, New York
 Holtzer-Cabot Electric Co., Brookline, Mass.
 Manhattan Electrical Supply Co., 17 Park pl., New York
 Ostrander, W. R. & Co., 22 New York
 Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.
 Pearce, Frederick Co., 18 Rose, New York
 Standard Elec. Supply Co., 37 Warren, New York
 Stanley & Patterson (S. & P. Double Magnet), 23 Murray, New York
 Star Electric Co., Binghamton, N. Y.
 United Electric & Apparatus Co., 200 Summer, Boston, Mass.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wilcox, L. M., 219 Market, Newark, N. J.

Alarms (Fire, Manual & Automatic Systems)

BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
 Denio General Electric Co., Rochester, N. Y.
 Edwards & Co., 140th & Exterior, New York
 Foote, Pierson & Co., 160 Duane, New York
 Gamewell Fire Alarm Telegraph Co., 19 Barclay, N. Y.
 Earl Electric Co., Akron, O.
 Jones & Gross Elec. Co., 62 Vesey, New York
 McFell Electric Co., 88 W Van Buren, Chicago, Ill.
 Manhattan Fire Alarm Co., 17 Park pl., New York
 National Fire Appliance Co. ("Wall"), Boston, Mass.
 Partrick, Carter & Wilkins Co., 22d & Wood, Phila., Pa.
 Reliance Instrument Co. ("Willis"), 60 West Van Buren, Chicago, Ill.
 Signalphone Co., Milwaukee, Wis.
 Special Fire Alarm Electric Signal Co., 44 E 23d, New York
 Star Electric Co., Binghamton, N. Y.
 Stephens, Geo. M. Co., Boston, Mass.
 Utica Fire Alarm & Telegraph Co., Utica, N. Y.
 Viaduct Electric Co., Relay, Md.
 Western Electric Co., Chicago & 57 Bethune, New York

Alarms (Fire, Thermostatic & Automatic System)

Boston Automatic Fire Alarm Co., Boston, Mass.
BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
 Copenhagen Automatic Fire Alarm Co., Sheboygan, Wis.
 Manhattan Electrical Supply Co., 17 Park pl., New York
 Milwaukee Automatic Fire Service Co., Milwaukee, Wis.
 Montauk Fire Detecting Wire Co., 100 William, New York
 Murphy Specialty Co., Detroit, Mich.
 National Fire Appliance Co. ("Wall"), Boston, Mass.
 Penn Heat Alarm & Signal Co., Pittsburgh, Pa.
 Star Electric Co., Binghamton, N. Y.
 Vierkant, H. C., Tarrytown, N. Y.
 Wall G. A., Providence, R. I.
 White Thermostat Co., Boston, Mass.

Alarms (Highway Crossing)

(See Signals, Railway Crossing)

Alarms (Low Water for Boilers)

Ashcroft Mfg. Co., 85 Liberty, New York
 Binghamton Machine Tool Works ("The Turner"), Binghamton, N. Y.
 Buckeye Iron & Brass Works, Dayton, O.

Burrows Mfg. Co. ("Burrows" High & Low), York, Pa.
 Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
 Erie Mfg. & Supply Co., Erie, Pa.
 Ferguson Mfg. Co. ("Wiltbank"), 221 Columbus av., Boston, Mass.
 Hills-McCanna Co., 128 Kinzie, Chicago, Ill.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
 Jarvis Engine & Machine Works ("Jarvis"), Lansing, Mich.
 Jones Automatic Low Water Alarm Co., Detroit, Mich.
 Kirchner, P. A. Boiler Alarm Co., Ft. Wayne, Ind.
 Kitts Mfg. Co., Oswego, N. Y.
 Lawler Regulator Co., 473 W B'way, New York
 Lonergan, J. E. & Co. ("Reliable"), 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Monash-Younger Co. (Gem & Signal), 203 S Canal, Chicago, Ill.
 Reliance Gauge Column Co., 5902 Carnegie av., S E, Cleveland, O.
 Rutzler, E. Co., 127 White, New York
 Schaeffer & Budenberg Mfg. Co. ("Ashley"), 963 Kent av., Brooklyn, N. Y.
 Sims Co., Erie, Pa.
 Steigert, Leopold (Also for High Water, The "U. S." Indicator), cor Elder & Logan, Cincinnati, O.
 Williams Gauge Co., 543 4th av., Pittsburgh, Pa.
 Wright Mfg. Co., 27 Woodbridge, Detroit, Mich.

Alarms (Puncture)

Baldwin Chain & Mfg. Co., Worcester, Mass.
 Worcester Anto Exchange, Worcester, Mass.

Alcohol (Denatured)

Adams, Fred O. (Mfrs.' Agt.), 36 La Salle, Chicago, Ill.
 Berry Bros. (Ltd.), Detroit, Mich.
 Boyd, F. O. & Co., New York
 Commercial Distilling Co., Terre Haute, Ind.
 Gray, Wm. & Co., New York
 Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Marcus, Julius, New York
 Merrimac Chemical Co., Boston, Mass.
 United States Industrial Alcohol Co. ("Pyro"), 100 William, New York
 Webb, A. L. & Sons, Baltimore, Md.
 Woolner & Co., Peoria, Ill.

Alcohol (Grain)

Clifton Springs Distilling Co., Cincinnati, O.
 Fleischmann Co., Cincinnati, O.
 Webb, Jas. A. & Son, 50 Stone, New York

Alcohol (Wood)

Alton Chemical Co., Bradford, Pa.
 Antrim Chemical Co., Detroit, Mich.
 Ashland Iron & Steel Co., Ashland, Wis.
 Bartley, John & Co., Mt. Alton, Pa.
 Bayless, J. & F. J., Binghamton, N. Y.
 Berry Bros. (Ltd.), Detroit, Mich.
 Boyne City Chemical Co., Boyne City, Mich.
 Brandt Chemical Co., Binghamton, N. Y.
 Cleveland Cliffs Iron Co., Cleveland, O.
 Cooper, Chas. & Co., 194 Worth, New York
 Corbett, M. J. & Co., Binghamton, N. Y.
 Cummer, Diggins & Co., Cadillac, Mich.
 Desmond, F. C., Traverse City, Mich.
 Forest Chemical Co., Sheffield, Pa.
 Gaffney Bros., Olivedale, Pa.
 Gray Chemical Co., Port Alleghany, Pa.
 Hastings Chemical Co., Hastings, Me.
 Innes Bros. & Co., Canton, Pa.
 Lake Superior Iron & Chemical Co., Detroit, Mich.
 Leighton, Arthur Co., Methol, N. Y., & Cook Falls, N. Y.
 McKean Chemical Co. (Wood Spirits), Williamsport, Pa.
 Mashek Chemical & Iron Co. (Refined), Wells, Mich.
 Merrimac Chemical Co., Boston, Mass.
 Michigan Chemical Co., Bay City, Mich.
 Nant-Y-Glo Chemical Co., Buffalo, N. Y.
 Noble Electric Steel Co., San Francisco, Cal.
 Oswego Chemical Co., Bradford, Pa.
 Otto Chemical Co., Williamsport, Pa.
 Pioneer Iron Co., Negannee, Mich.
 Russell Chemical Co., Russell, Pa.
 Salomon, L. A. & Bro., 216 Pearl, New York
 Webb, A. L. & Sons, Baltimore, Md.
 Wood Products Co. (Pure Methyl & Refined), Buffalo, N. Y.

Wright Chemical Co., Susquehanna, Pa.
 Wyman Chemical Co., Port Alleghany, Pa.
 Young, W. D. Chemical Co., West Bay City, Mich.

Alizarine Assistant

Shaw, Jno. & Co., Boston, Mass.

Alkali Mfrs.

American Chemical Co., Cincinnati, O.
 Clark, Fred S. Co., Cleveland, O.
 Columbia Chemical Co., Pittsburgh, Pa. Works, Barberton, O.
 Fuerst Bros. & Co., 2 Stone, New York
 Hollingsworth & Peterson, Philadelphia Bourse, Philadelphia, Pa.
 Kentucky Refining Co., Louisville, Ky.
 Linder & Meyer, Boston, Mass.
 Mathieson Alkali Works ("Eagle" & "This-tle" Brands), Providence, R. I.; Works, Saltville, Va.
 Michigan Alkali Co., Wyandotte, Mich.
 Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.
 Wing & Evans, 22 William, New York
 Winkler, Isaac & Bro., Cincinnati, O.

Alloys (Aluminum)

(See Ferro-Aluminum)

Alloys (Bassite)

Bassite Mining & Smelting Co. (For Brass Founders), Cincinnati, O.

Alloys (Copper & Nickel)

Benedict & Burnham Mfg. Co., Waterbury, Conn.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Nassau Smelting & Refining Works, 607 W 29th, New York

Alloys for Steel Mfrs.

(See Ferro Alloys of Various Kinds)

*Alloys (Iridium)

AMERICAN PLATINUM WORKS (Any Grade of Hardness), Chestnut st & N. J. R. av., Newark, N. J. (See adv. index, end of book)

Alloys (Manganese)

(See Ferro Manganese, Etc.)

Alloys (Manganese Bronze)

American Manganese Bronze Co. ("Spare's" White, Hydraulic, etc.), 99 John, New York

Alloys (Phosphor Bronze)

Brady Brass Co., 200 10th, Jersey City, N. J.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Phosphor Bronze Smelting Co. (Ltd.) ("Elephant" Brand), 2200 Wash'n av., Phila., Pa.

Alloys (Silicon)

(See Ferro Manganese & Ferro Silicon)

Alloys ("Techno")

Techno Chemical Co. (For Steel, Brass, Bronze & Gun Metal Castings), Cleveland, O.

Alloys (White Metal)

Electric Smelting & Aluminum Co. ("Cowles"), Lockport, N. Y.
 Lissberger, Marks & Son, 281 Borden av., Brooklyn, N. Y.
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

*Alphabetical & Changeable Directories

TABLET & TICKET CO., 70-80 W Jackson boul., Chicago, Ill. (See adv. index & branch offices, end of book)

Alphabets & Figures (Steel)

(See Stencils)

Altars

(See Marble Altars; also Furniture, Church & Lodge)

Alumica

Loos & Dilworth, 134 S Front, New York

Alumina

Penna. Salt Mfg. Co. (Sulphate, Hydrate, etc.), 115 Chestnut, Phila., Pa.

Aluminite

Stowe-Fuller Co., Cleveland, O.

Aluminoid

National Wire Cloth Co., Niles, Mich.

Aluminum Flake

Aluminum Flake Co., Akron, O.

Aluminum Hollow Ware

Aluminum Company of America, Pittsburg, Pa., & 99 John, New York
Aluminum Cooking Utensil Co. ("Wear-Ever"), New Kensington, Pa., & 99 John, New York
Aluminum Mfg. Co., Two Rivers, Wis.
Buckeye Aluminum Co. ("Perfection"), Doylestown, O.
Central Stamping Co. ("Sterling" Enameled), 174 Fulton, New York
Griswold Mfg. Co. ("Erie"), Erie, Pa.
Illinois Pure Aluminum Co., Lemont, Ill.
National Aluminum Works ("Perfection"), Wellsville, N. Y.
Republic Metalware Co., Buffalo, N. Y.
United States Aluminum Co., Pittsburg, Pa.
Wagner Mfg. Co., Sidney, O.

Aluminum Novelties

(See Metal Novelties & Specialties)

***Aluminum Stampings**

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Alums

Baker & Adamson Chemical Co., Easton, Pa.
Cochrane Chemical Co. (Porous, etc.), Boston, Mass.
Detroit Chemical Works, 190-260 Junction av, Detroit, Mich.
Fuller & Fuller, 220 Randolph, Chicago, Ill.
General Chemical Co. (Sulphuric), 25 Broad, New York
Harrison Bros. & Co. (Inc.), Phila., Pa.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Kalbfleisch, Franklin H. Co., B'way & 16th, New York
Kuttroff, Pickhardt & Co., 128 Duane, New York
Lening, Chas. & Co., 112 S Front, Phila., Pa.
Mallinckrodt Chemical Works, St. Louis, Mo.
Merrimac Chemical Co. Boston, Mass.
Penna. Salt Mfg. Co. (Crystal, Natrona Porous), 115 Chestnut, Phila., Pa.
Powers-Weightman-Rosengarten Co., 9th & Parrish, Philadelphia, Pa.
Sholes, C. E. Co., 164 Front, New York
Thomsen Chemical Co., Race & Winder, Baltimore, Md.
Wiarda, John C. & Co., 273 Green, Brooklyn, N. Y.

Alundum for Polishing

Norton Co., Main Office: Worcester, Mass.

***Alundum Grains & Bricks**

HARRISON SUPPLY CO., 5 Dorchester av ext., Boston, Mass. (See adv. index, end of book)

Alundum & Corundum Wheels

Norton Co., Main Office: Worcester, Mass.

Amalgamating Pans & Barrels

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Hendy, Joshua Machine Works, San Francisco, Cal.
Krogh Mfg. Co. ("Acme" for Beach Sands), San Francisco, Cal.

MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Mill & Smelter Engineering Co., 114 Liberty, New York

Mine & Smelter Supply Co., Denver, Col.
Pierce, L. S. ("Pierce" Gold Separator & Amalgamator), 1650 Champa, Denver, Colo.
Power & Mining Machinery Co., Cudahy, Wis.
Traylor Engineering Co., Allentown, Pa.
Union Iron Works Co., Potrero, San Francisco, Cal.

Amalgamating Sheets (Silver Plated)

Baltimore Copper Smelting & Rolling Co., Baltimore, Md.

Ambulances

Birch, James H., Burlington, N. J.
Fulton & Walker Co., 20th & Filbert, Phila., Pa.
Kiblinger, W. H. Co., Auburn, Ind.
Studebaker Bros. Mfg. Co., South Bend, Ind.

Ammeters & Voltmeters

(Those who Manufacture Battery Gauges are so Indicated following their names)

American Instrument Co. ("American," for Direct Current), 16 Lawrence, Newark, N. J.
Baird Mfg. Co. (Battery Gauges), 1592 North Halsted, Chicago, Ill.
BRISTOL CO. ("Bristol's" Recording), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)
Central Laboratory Supply Co. ("Vawter" Recording), La Fayette, Ind.
Clark Electric Meter Co., 141 South Clinton, Chicago, Ill.
Connecticut Telephone & Electric Co. (Inc.) (Battery Gauges), Meriden, Conn.
Dongan Instrument Co. (Direct & Alternating), Albany, N. Y.
Dow Portable Electric Co. (Battery Gauges), Braintree, Mass.
Duncan Electric Mfg. Co. ("Duncan" Direct & Alternating Current), La Fayette, Ind.
Du Vivier, Ernest H. (Dial & Recording), 30 Church, New York
Eager Electric Co., Watertown, N. Y.
Easton Carbon Works (Battery Gauges), Jersey City, N. J.
Eldridge Electric Mfg. Co. (Also Battery Gauges), Springfield, Mass.
Fort Wayne Electric Works (Inc.), (Wood), Fort Wayne, Ind.
Geen Electrical Mfg. Co. ("Geno." Battery Gauges), 180 East Lake, Chicago, Ill.

GENERAL ELECTRIC CO. (Recording & Indicating Voltmeters), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Hanson & Van Winkle Co. ("The H. & V. W."), 219 Market, Newark, N. J.

Hoyt Electrical Instrument Works (Also Battery Gauges), Penacook, N. H.
International Electric Meter Co., 330 West Randolph, Chicago, Ill.

International Instrument Co., Cambridge, Mass.
Jewell Electrical Instrument Co. ("Jewell" Dead-Beat Portable & Switchboard Type), 61 N Ashland av, Chicago, Ill.

Johns, H. W.-Manville Co. ("Victor"), 100 William, New York

Kendrick & Davis (The K. & D.), Lebanon, N. H.

Kent Atwater Mfg. Works (Battery Gauges), 46 N 6th, Phila., Pa.

Keystone Electrical Instrument Co. (Also Battery Gauges), 9th & Montgomery av, Philadelphia, Pa.

King, Julius Optical Co. (Battery Gauges), 10 Maiden la., New York

Knott, L. E. Apparatus Co., 15 Harcourt, Boston, Mass.

Leeds & Northrup Co. ("Leeds & Northrup" Potentiometer), Phila., Pa.

Manhattan Electrical Supply Co. ("Ditmar," "Universal," "Elite," Battery Gauges), 17 Park pl., New York

Motor Car Supply Co. ("Van Sickle," Battery Gauges), 1425 Michigan av., Chicago, Ill.

Neuer-Miss Spark Coal Co. (Battery Gauges), Lansing, Mich.

Norton, Chas. Electrical Instrument Co., Manchester, Conn.

Oakes & Dow Co. ("Sherman," Battery Gauges), Boston, Mass.

Pierson-Wilcox Elec. Co. (Battery Gauges), Minneapolis, Minn.

Pignolet, Louis M. (Continuous Current), 80 Cortlandt, New York

Pocket Meter Co. ("Readrite"), Bluffton, O.

QUEEN & CO. (Inc.), n w c 8th & Arch, Phila., Pa. (See adv. index, end of book)

Reliance Instrument Co. ("Reliance"), 60 W Van Buren, Chicago, Ill.

Robert Instrument Co. (Also Battery Gauges), Detroit, Mich.

Roller-Smith Co. (Also Battery Gauges), Bethlehem, Pa.

Ruprecht Electrical Co. (Battery Gauges), Cleveland, O.

Standard Electric Time Co. ("The Warner," Battery Gauges), Waterbury, Conn.

Standard Instrument Co., Newark, N. J.

Sterling Electric Mfg. Co. (Battery Gauges), Cleveland, O.

Triplett Meter Co., Bluffton, O.

Wagner Electric Mfg. Co., Plymouth & Wash R. R., St. Louis, Mo.

Western Electric Co., 259 S Clinton, Chicago, Ill. & 57 Bethune, New York

WESTINGHOUSE ELECTRIC & MFG. Co. (Direct & Alternating Current), Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Ammonia

Armitage Mfg. Co., Richmond, Va.

Armour Ammonia Works (Anhydrous), 3131 Loomis, Chicago, Ill.

Baker & Adamson Chemical Co. ("C. P."), Easton, & McKeesport, Pa.

Banner Mfg. Co., Detroit, Mich.

Barrett Mfg. Co. (Anhydrous & Aqua), 17 Battery pl., New York, & Land Title bldg., Philadelphia, Pa.

Billings-Clapp Co., 178 Freeport, Dor, Boston, Mass.

Bower, Hy. Chemical Mfg. Co. (Anhydrous & Aqua), 29th & Gray's Ferry rd., Phila., Pa.

Bucks Chemical Co. (Anhydrous), Wilmington, Del.

Butterworth-Judson Co. (Aqua), Newark, N. J.

Carbondale Chemical Co. ("Aqua & Anhydrous"), Carbondale, Pa.

Clapp, B. P. Ammonia Co., Louisville, Ky.

Cochrane Chemical Co. (Aqua, Anhydrous), Boston, Mass.

Colorado Ammonia & Chemical Co., 9th & Wewatta, Denver, Colo.

Columbia Chemical Co. (Parsons), 43 Sedgwick, Brooklyn, N. Y.

Consumers Ammonia Co. (Anhydrous), Drexel bldg., Philadelphia, Pa.

Grasselli Chemical Co. (Aqua), Arcade bldg., Cleveland, O.

General Chemical Co., 25 Broad, New York

Harrison Bros. & Co. (Aqua), S 35th & Gray's Ferry rd., Phila., Pa.

Harshaw, Fuller & Goodwin Co. (Carbonate, Fluoride & Murate), Cleveland, O.

Hecla Compressed Gas Co. (Anhydrous), Chelsea, Mass.

Herf & Frerichs Chemical Co. (Anhydrous & Aqua), St. Louis, Mo.

Hirsh, Leon & Sons (Anhydrous in Cylinders), 368 Greenwich, New York

Kalbfleisch, Franklin H. Co. (Ammonia, Aqua), B'way & 16th, New York

Larkin & Scheffer Chemical Co. (Ammonia, Anhydrous), St. Louis, Mo.

Lister's Agr'l Works (Sulphate), 26 B'way, New York

McKesson & Robbins (Salts of), 91 Fulton, New York

Mallinckrodt Chemical Works, St. Louis, Mo.

Mechling Bros. Mfg. Co. (Aqua), Phila., Pa.

Merrimac Chemical Co. (Aqua), Boston, Mass.

Michigan Ammonia Works (Carbonate), ft of Beaufaiz, Detroit, Mich.

National Ammonia Co. (For Refrigerating), St. Louis, Mo.

Northwestern Fertilizer Works (Aqua), 45th & S Center av, Chicago, Ill.

Pacific Ammonia & Chemical Co., Francisco & Webster, San Francisco, Cal.

Penna. Salt Mfg. Co. (Ammonia, Aqua), Phila., Pa.

Powers-Weightman-Rosengarten Co. (Aqua), 9th & Parrish, Philadelphia, Pa.

Roessler & Hasslacher Chemical Co. (Sal Grani & Carbonate, etc.), 100 William, New York

Solvay Process Co. ("Aqua"), Syracuse, N. Y.

Thomsen Chemical Co., Race & Winder, Baltimore, Md.

Western Chemical Mfg. Co. (Ammonia, Anhydrous), Denver, Colo.

Wiarda, John C. & Co., 259 Green, Brooklyn, N. Y.

Amyl

(See Acetate of Amyl)

Anchors

Admiral Anchor Co. (Steel Stockless), Chester, Pa.
American Ship Windlass Co. ("Babbitt"), Providence, R. I.
Baldt Anchor Co., Chester, Pa.
Bowers, L. M. & Co. ("National," "International," Steel Stockless), Binghamton, N. Y.
Camden Anchor-Rockland Machine Co. (Wrought Iron, 20 to 8,000 lbs.), Camden, Me.
Cape Ann Anchor Works, Gloucester, Mass.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
Chester Steel Casting Co. (Ship), 407 Sansom, Phila., Pa.
Coleman, Walter & Son ("Rex"), Providence, R. I.
Fairhaven Iron Foundry Co., Fairhaven, Mass.
Laughlin, Thos. Co. ("Dirigo" Folding, Fishing, Grapnel, Mushroom, Stockless, etc.), Portland, Me.
Matthews, W. N. & Bro. (Ship), 206 N 2d, St. Louis, Mo.
National Steel Foundry Co. (Ship), Fairmont av. New Haven, Conn.
NEW JERSEY FOUNDRY & MACHINE CO. (Ship), 90 West, New York
Penn Steel Casting & Machine Co. (Open Heart Steel), Chester, Pa.
Seaboard Steel Casting Co. (Open Hearth Steel), Chester, Pa.
Willcox, Crittenden & Co. (Stockless with Ball & Socket, Mushroom, Folding, Grapplings, etc.), Middletown, Conn.

Anchors (Guy)

Atlas Anchor Co., Cleveland, O.
Attica Foundry & Machine Co. ("Blaine"), Attica, O.
Aurora Specialty Mfg. Co. ("Samson"), Aurora, Ill.
Bennett, I. A. Co. ("Bull Tongue"), 90 S Van Buren, Chicago, Ill.
Cook, F. B., 240 W Lake, Chicago, Ill.
Crouse-Hinds Co. (Harpoon), Syracuse, N. Y.
Equipment Sales Co. ("Lucas"), Chicago, Ill.
Everstick Anchor Co., St. Louis, Mo.
Glaze-Morris Mfg. Co. ("Gem"), Columbus, O.
Holden Anchor Co., Des Moines, Iowa.
Jackman, W. J. ("The Jack Anchor"), Lima, O.
Klein, Mathias & Sons, 78 W Van Buren, Chicago, Ill.
Matthews, W. N. & Bro. ("Matthews"), 206 N 2d, St. Louis, Mo.
Michigan Bolt & Nut Works, Detroit, Mich.
Miller Anchor Co. ("Miller" Safety), Norwalk, Ohio
Nagel, W. G. Electric Co. ("Hercules"), Toledo, O.
Phila Electl. & Mfg. Co. ("Pemco," Pole Guy Anchor), 1232 N 31st, Phila., Pa.
Polk, Robert W., Memphis, Tenn.
Specialty Sales Co. ("Neverstick"), Cedar Rapids, Iowa
Vote-Berger Co. ("D. & T."), La Crosse, Wis.
Wapak Hollow Ware Co., Wapakoneta, O.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Anchors (Rail)

(See also Creepers, Anti-Rail)

Burgess, B. ("Burgess" Wrecking), Danville, Ill.
Miller Anchor Co. (For Wrecking Derricks), Norwalk, O.
St. Louis Malleable Casting Co., St. Louis, Mo.
Scott Mfg. Co. ("Racine"), Racine, Wis.

Anchors (Rock)

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

*Anchors (Screw, Expansion)

DIAMOND EXPANSION BOLT CO. ("Diamond"), 90 West, New York. (See adv. index & branch offices, end of book)

Andirons

(See also Fire Place Furnishings)

Boston Brass Andiron Co. (Brass), 104 Utica, Boston, Mass.
Bradley & Hubbard Mfg. Co. (Brass), Meriden, Conn.
Elm City Brass & Rivet Co., Plainville, Conn.
Glascock Stove & Mfg. Co., Greensboro, N. C.
JACKSON, WM. H. COMPANY (Brass & Iron, 20 E 17th (Union Sq.), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)
Janusch Mfg. Co. (Brass, Bronze & Iron), 496 E 134th, New York
Judd, H. L. Co., 87 Chambers, New York
Perelson, L. (Wrought Iron), 204 Centre, New York
Rose Bros. (Artistic Wrought Iron), 123 Bank, Cleveland, O.
Rostand Mfg. Co., Milford, Conn.
St. Louis Brass Mfg. Co., St. Louis, Mo.

Anemometers

Ainsworth, Wm. & Sons, Denver, Col.
Du Vivier, Ernest H. (Dial & Recording), 30 Church, New York
Keuffel & Esser Co., 127 Fulton, New York
QUEEN & CO. (Inc.), n. w. e 8th & Arch, Phila., Pa. (See adv. index, end of book)
Schaeffer & Budenberg Mfg. Co. ("Biram" & "Robinson"), 963 Kent av, Brooklyn, N. Y.
Tagliabue, Chas. J. Mfg. Co., 51 Fulton, New York

Anglegraphs

Cassady-Fairbank Mfg. Co., Chicago, Ill.

Anglemeters

Sargent Steam Meter Co. ("Sargent" Indicator), 303 Dearborn, Chicago, Ill.

Aniline Colors & Dyes

Beach & Co., Hartford, Conn.
Berlin Aniline Works, 213 Water, New York
Bull's Ferry Chemical Co., Edgewater, N. J.
Casella Color Co., 182 Front, New York
Geisheimer & Co., 189 Front, New York
Heller, Mertz & Co., 22 Cliff, New York
Innis, Speiden & Co., 46 Cliff, New York
Kalbfleisch, Franklin H. Co., B'way & 16th, New York
Kalle & Co., 534 Canal, New York
Klipstein, A. & Co., 122 Pearl, New York
Kutropf, Hartford & Hanna Co., Buffalo, New York
Thayer, E. M. & Co. (also Alizarine Colors), 411 Atlantic av, Boston, Mass.

Annealers (Wire)

Cornell, J. B. & J. M. Co., 26th & 11th av. New York
STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)

Annealing

(See Case Hardening)

Annunciators

Ansonia Electrical Co., Ansonia, Conn.
BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
Couch & Seeley Co., Boston, Mass. of book)
Edwards & Co., 140th & Exterior, New York
Electric Goods Mfg. Co. ("Ross," "Dandy," "Perfect," "Rival," "Noxall," etc.), 115 Purchase, Boston, Mass.
ELEVATOR SUPPLY & REPAIR CO., 34 W Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. index, end of book)
Garl Electric Co., Akron, O.
Heath Electric Co. ("Ideal"), 336 Grand River av, Detroit, Mich.
Holtzer-Cabot Electric Co., Brookline, Mass.
Jones & Goss, Elec. Co., 62 Vesey, New York
Knickerbocker Elec. Co., 116 West New York
Manhattan Electrical Supply Co., 17 Park pl, New York
Menominee Elec. Mfg. Co., Menominee, Mich.
Moon Mfg Co. ("Knapp," "Eclipse," "Acme"), 49 S Canal, Chicago, Ill.
Ostrander, W. R. & Co., 22 Dey, New York

Partrick, Carter & Wilkins Co. ("King," "Competition," "Guarantee"), 22nd & Wood, Phila., Pa.
Stanley & Patterson ("Simplex"), 23 Murray, New York
Star Electric Co., Binghamton, N. Y.
Western Electric Co. ("Etonial"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Annunciators (Automobile)

Champion, Albert Co. (Imported), 541 Tremont, Boston, Mass.
Cowles, C. & Co. (Inc.) ("Madison Square" & "Mechanics Hall"), New Haven, Conn.
Jones Speedometer Co., 127 W 32d, New York

Annunciators (Elevator)

(See Elevator Annunciators)

Annunciators (Hospital)

Holtzer-Cabot Electric Co., Brookline, Mass.

Anodes (Brass & Copper)

Hanson & Van Winkle Co., Newark, N. J.
Hudson Rolling Mill Co. (Copper), Bloomfield, N. J.
HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York
New Haven Copper Co. (Copper, Rolled Only), Seymour, Conn.
Matthews, H. A. Mfg. Co., Seymour, Conn.
Seymour Mfg. Co., Seymour, Conn.
Taunton-New Bedford Copper Co. (Copper), New Bedford, Mass.

*Anodes for Electro Plating

UNITED WIRE & SUPPLY CO. (In Gold & Silver), 109-119 Summer, Providence, R. I. (See adv. index, end of book)

Anodes (Gold & Silver)

Hanson & Van Winkle Co., Newark, N. J.
UNITED WIRE & SUPPLY CO., 109 Summer, Providence, R. I. (See adv. index, end of book)

Anodes (Nickel)

Auburn Soap & Chemical Co., Auburn, N. Y.
Dow Chemical Mfg. Co., Mansfield, O.
Hanson & Van Winkle Co., Newark, N. J.
Harshaw, Fuller & Goodwin Co. (And Salts), Cleveland, O.
Seymour Mfg. Co., Seymour, Conn.
Talcott, C. H. & Co. (& Salts), Hartford, Conn.
Wiarda, Jno. C. & Co., Brooklyn, N. Y.

Anti-Friction Metals

(See Bearings of Various Kinds; also Babbitt Metal)

Anti-Hums

BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
Dinsmore & Lawton ("D. & L."), 134 Van Buren, Chicago, Ill.
Howard Electric Co., 66 W Van Buren, Chicago, Ill.
Manhattan Electric Co., 17 Park pl., New York

Antimonial Lead

Beer, Sondheimer & Co., 42 B'way, New York
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Antimony

American Metal Co., 52 B'way, New York
Atlas Chemical Co. ("Golden" Sulphuret of Antimony for Rubber Trade), Newtonville, Mass.
Beer, Sondheimer & Co., 42 B'way, New York
Blatchford, E. M. & Co., 70 Clinton, Chicago, Ill.
Cochrane Chemical Co., Boston, Mass.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

Harshaw, Fuller & Goodwin Co. (Metal, Needle & Oxide), Cleveland, O.
 Hayman, Mich'l & Co., Buffalo, N. Y.
 Hendricks Bros., 46 Cliff, New York
 Hlertz Metal Co., 10th & Poepping, St. Louis, Mo.
 Hill, Edw. & Sons, 71 Pine, New York
 Hoyt Metal Co., 325 Locust, St. Louis, Mo.
 Hungerford, U. T., Brass & Copper Co., 497 Pearl, New York

Hussey, C. G. & Co., 2850 2d av, Pittsburg, Pa.
LEAVITT, C. W. & CO. ("A. S. P.")
 Brand, English, Metal, Crude & Oxide, 30 Church, New York. (See adv. index, end of book)

MERCHANT & EVANS CO. (Inc.), 517
 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Nassau Smelting & Refining W'ks, 607 W 29th, Peerless Alloy Co., Denver, Colo. New York
 Raymond Lead Co., 51 W Lake, Chicago, Ill.
 Tennant, C. Sons & Co. (Importers), 76 William, New York

French, O. S. & Co., 81 Fulton, New York
 Trotter, Nathan & Co., 36 N Front, Phila., Pa.
 Vogelstein, L. & Co., 100 B'way, New York
 Waite, Ranlet & Co., Boston, Mass.
 Wiarda, Jno. C. & Co., Brooklyn, N. Y.

Anti-Rattlers

Bauer Bros. Mfg. Co. ("Burton," "Higgin" & "Johnson"), Cincinnati, O.
 Evans, Coppins & Starks Co. ("Star Quick Shift"), Princeton, Ill.
 Fernald Mfg. Co. ("Burton," "Quick Shift," "Wire" & "Ladd"), North East, Pa.

Higgin Mfg. Co., Newport, Ky.
 Kohler, F. E. & Co. ("Kohler"), Canton, O.
 Metal Stamping Co. ("Johnson"), 243 West, New York

Monarch Carriage Goods Co. ("Handy"), Cincinnati, O.
 Oneida National Chuck Co. ("National"), Oneida, N. Y.

PENNSYLVANIA RUBBER CO. (Rubber), Jeannette, Pa. (See adv. index & branch offices, end of book)

Racine Malleable & Wrought Iron Co. ("Whitney"), Racine, Wis.
 Raymond Mfg. Co., Corry, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Tanner, D. F. ("Quick Shift"), Holland, N. Y.
 United Globe & Rubber Mfg. Co., Trenton, N.J.

Anti-Spreading Devices

Niagara Forged Steel Co., Buffalo, N. Y.

Anvil, Vise & Drill

Millers Falls Co. (Inserted Steel Vise Jaws), 28 Warren, New York; Works: Millers Falls, Mass.

Anvil & Vise Combined

Adams, A. L., Cedar Rapids, Iowa.
 Bloomfield Mfg. Co., Bloomfield, Ind.
 Eagle Anvil, Vise & Rail Joint Works, Trenton, N. J.

Foss Mfg. Co. (Farmers), Springfield, O.
 Fulton Iron Works ("Detroit," "Cheney"), Detroit, Mich.

Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
 Illinois Iron & Bolt Co., Carpentersville, Ill.

Millers Falls Co., Millers Falls, Mass., & 28 Warren, New York
 Parker, Charles Co., Meriden, Conn.

Porter, J. E. Co. ("Porters" Combination Vise Drill & Anvil), Ottawa, Ill.
 Richardson Mfg. Co., Worcester, Mass.

Sovereign, C. E. Co., Rockford, Ill.
 Stickler Hay Tool Co., Janesville, Wis.

Anvils

American Skein & Foundry Co. ("Badger"), Racine, Wis.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

Columbian Hardware Co. (The "Columbian"), Cleveland, O., & 168 Church, New York
 Columbus Forge & Iron Co. ("Trenton" Solid Wrought), Columbus, O.

Fisher & Norris ("The Fisher") (Clark Fisher, Prop.), Fair & Factory, Trenton, N. J.
 Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, Hollands Mfg. Co., Erie, Pa. N. Y.

Illinois Iron & Bolt Co. ("Vulcan"), Carpentersville, Ill.
 Phoenix Hardware Mfg. Co., Homer, N. Y.

Russ, A. E. Mfg. Co., 87 Wade Park av, Cleveland, O.

Schreiber & Conchar Mfg. Co., Dubuque, Ia.
 Southern Skein & Foundry Co. ("Southern"), Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.

Anvils (Bench)

Fisher & Norris ("Fisher" Screw) (Clark Fisher, Prop.), Fair & Factory, Trenton, N. J.

Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, Hollands Mfg. Co., Erie, Pa. N. Y.

Massachusetts Tool Co., Greenfield, Mass.
 Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.

Phoenix Hardware Mfg. Co., Homer, N. Y.

Anvils (Farm)

Chicago Wheel & Mfg. Co., 330 W Monroe, Chicago, Ill.
 Fisher & Norris ("Fisher"), Trenton, N. J.

Hay-Budden Mfg. Co., Brooklyn, N. Y.
 Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
 Litchfield Mfg. Co., Waterloo, Ia.

Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.
 Patten & Stafford Co., Canastota, N. Y.

Wrightsville Hardware Co., Wrightsville, Pa.

Anvils (Jewelers')

Billings & Spencer Co. (With Base), Hartford, Conn.

Anvils (Paper Weight)

Wrightsville Hardware Co., Wrightsville, Pa.

Anvils (Plow)

Atha Tool Co., Newark, N. J.
 Eagle Anvil, Vise & Rail Joint Works, Trenton, N. J.

Evansville Tool Works, Evansville, Ind.
 Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.

Plumb, Fayette R., Pa. R. R. & Tucker, Fkd., Philadelphia, Pa.
 Vanghn & Bushnell Mfg. Co. (Drop Forged), 875 W Carroll av, Chicago, Ill.

*Anvils (Pneumatic)

INGERSOLL-RAND CO. ("Foley"), 11
 B'way, New York. (See adv. index & branch offices, end of book)

Apparatus for Making Rubber Stamps

Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.

Aprons (Advertising)

Silver Springs Mfg. Co. (For Grocers & Hardware Men), Silver Springs, N. Y.

Aprons (Blacksmiths' Leather)

Beckman, Edmund C. ("Boss"), 712 N 4th St. Louis, Mo

Aprons (Canvas)

Page Belting Co., Concord, N. H.

Aprons (Condenser)

Norwich, Belt Mfg. Co., Norwich, Conn.

*Aprons (Flange)

BOSTON BELTING CO. (For Ore Concentrating Machines, etc.), 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)

Aprons (Leather)

Barnes, Henry K., 104 Franklin, Boston, Mass.
 Beckman, Edmund C. ("Boss" Blacksmith, etc.), 212 N 4th, St. Louis, Mo.

Coupe, Wm. & Co. (Rawhide "Excelsior"), S Attleboro, Mass.
 Firth, Wm. Co., 79 Milk, Boston, Mass.

HUDSON BELTING CO. ("Sheepskin"), Worcester, Mass. (See adv. index, end of book)

Helvetia Leather Co., Lancaster, Pa.
 North Chelmsford Machine & Snpply Co., North Chelmsford, Mass.

Page Belting Co., Concord, N. H.
 Pechin, Jno. W., 31 S 3d, Phila., Pa.
 Turner, J. S. Mfg. Co., Lowell, Mass.

Aprons (Mechanics')

Troy Carriage Sun Shade Co. (Duck & Twill Carpenters & Workman's), Troy, O.
 Walters, Wm. P. Sons (Duck), 1233 Market, Phila., Pa.

*Aprons (Paper Mill)

BOSTON BELTING CO. (Rubber), 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)

Goodrich, B. F. Co., Akron, O.
PENNSYLVANIA RUBBER CO., Jean-nette, Pa. (See adv. index & branch offices, end of book)

Aprons (Rain)

Automobile Equipment Co., Detroit, Mich.
 Daugherty Mfg. Co. ("Storm King"), Columbus, Ohio

Everitt, B. F., 65 Fort E, Detroit, Mich.
 Kroh, C. Z. & Co., Toledo, O.
 Lembach Bros., 253 Jefferson av, Detroit, Mich.

Springfield Auto Top & Upholstering Co., Springfield, Mass.

Aprons (Rubber)

BOSTON BELTING CO., 260 Devon-shire, Boston, Mass. (See adv. index & branch offices, end of book)

Goodrich, B. F. Co., Akron, O.
 Goodyear Rubber Co., 787 B'way, New York
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Aqua Fortis

Butterworth-Judson Co., Newark, N. J.
 Cochrane Chemical Co., Boston, Mass.

Aquariums (Glass)

Co-Operative Flint Glass Co., Beaver Falls, Pa.

Arbors (Drill Chuck)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. (Arbors for Shell Reamers), Detroit, Mich.

Skinner Chuck Co., New Britain, Conn.
 Trevor Mfg. Co. (Chuck), Lockport, N. Y.

Union Mfg. Co. ("Union"), New Britain, Conn.
WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Arbors (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Harrison & Knight Mfg. Co., Newark, N. J.

Owen Machine Tool Co., Springfield, O.
 Union Twist Drill Co., Athol, Mass.

Arbors (Shell End Mill)

Union Twist Drill Co., Athol, Mass.

Arbors (Shell Reamer)

Cleveland Twist Drill Co., Cleveland, O.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co., 21st & Stau-dish, Detroit, Mich.

Pratt & Whitney Co., Hartford, Conn.
 Rogers, John M., Gloucester City, N. J.

Standard Tool Co., Cleveland, O.
 Western Tool & Mfg. Co. ("Champion"), Springfield, O.

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

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Akron, O.

*Arc Welders (Electric)

ELECTRIC CONTROLLER & MFG.
Co., Cleveland, O. (See adv. index & branch
offices, end of book)

*Architect & Builder Supply Emporium

SOLTMANN, E. G.

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Electric Prints of All Kinds), 125 E 42d,
New York. (See adv. index, end of book)

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(Fellows of the American Institute of Ar-
chitects are indicated by a Star (*))

(Firms who describe themselves as Archi-
tects and Builders are indicated by a Dag-
ger (†))

ALABAMA.

ANNISTON—Carleton, Chas. W.
BIRMINGHAM—Breeding, H. D., Watts bldg
Chaffee, W. C., Jefferson Co. Sav. Bank bldg
Chamberlin Arch'tl Co., McCoy bldg
Colligon & Posey
Holmich, D. A., Hood bldg
Johnson, E. C., 1929 2d av
La Belle-Krlbs Co., Hood bldg
McCain, J. W., 213½ N. 20th
Maddox, J. M., 2021 1st av
Miller & Martin, Title Guarantee bldg
Posey, R. E., Jefferson Co. Sav. Bk. bldg
Putnam, J. L., 216 N. 21st
Rayfield, W. A. & Co., Mason bldg
Ryan & Son, Hood bldg
Smith & Carter, Vandiver bldg
Splnk, W. E., Title Guarantee bldg
Warren & Welton, Title Guarantee bldg
Weston, Wm. C., 1st Nat'l Bank bldg
*Wheelock, Joy & Wheelock, Steiner bldg
Whildon, D. O., Title Guarantee bldg
EUFAULA—Britt Bros.
Mnlthrop, R. J.
HUNTSVILLE—Hulburt, Geo. D.
Lockwood & Seymour
Mayhew, J. H.
MOBILE—Aubelus, Edw., Van Antwerp bldg
Benz, Rudolph & Son, Masonic Temple
Belle Edw. F., Van Antwerp bldg
Biggers, Willis R., 45 N. Royal
Downey & Denham, 110 E St. Francis
Hutchinson & Garvin, 82 St. Francis
Klepper, Frederick
Klett, Wm., City Bank bldg
McCrory & Slater, Pollock bldg
Rogers, Geo. B., Van Antwerp bldg
Stone Bros., Lowenstein bldg
MONTGOMERY—Cox, W. N., 21 Dexter av
Dirmeyer, C. E., 27 Commerce
Lockwood, Frank, 121 Adams
Okel & Cooper, Vandiver bldg
Smith, B. B., 22 S. Perry
Whaley, R. S., 414 S. Decatur
ROANOKE—Turbeville, D. K.
SELMA—Hopson, Chas. H.
TUSCALOOSA—Donoho, C.
TUSKEGEE—Pitman, W. Sidney

ARIZONA TERRITORY.

PHOENIX—Gregg, A. W., O'Neil blk
TUCSON—Blount, Ely
Trost & Rust

ARKANSAS.

CENTER POINT—Isom, Wm.
FORT SMITH—Bashman, T. E., over Kress Co.
Blaisdell, F. M., Illinois bldg
Blakely, W. H., 9th & A
Chisholm, A. C., 801 Garrison av
Jennings, J. W. T., Amer. Nat'l B'k bldg
Klingensmith, A., Merchants' Nat. B'k bldg
Strong, E. A., Mer. Nat'l Bank bldg

HOT SPRINGS—Van Patten, S. P.
LITTLE ROCK—Burton, P. V.

*Gibb & Sanders
Harber, H. J.
Mann, Geo. R.
*Thompson, Chas. L.
Whitehead, J. M.

MAGNOLIA—Jones, J. H.

MENA—Klein & Depew

TEXARKANA—Stewart & Witt

CALIFORNIA.

ALAMEDA—Burkhard, P. E., 1418 Park
Pizzigorie, Henry, 2109 Pacific av
Wilcox, W. H., 1711 Central av
ALTADENA—Reeves, William H.
BERKELEY—Chadwick, J., 2049 Center
Cumming & Weymouth, 1st Nat'l B'k bldg
Helms, W. C., Ramona av
Hotchkiss, Robt. B., 1415 Milvia
Kaiser, C. S., Studio bldg
Kock, Stanley P., 2230 Cal.
Mallett, Fowler, 2335 Warring
Plowman, G. T., Studio bldg
Ratcliff, W. H., 1st Nat'l Bank bldg
Thomas, Jno. H., Studio bldg
CORONA—Kroonen, Leo
FRESNO—Kirby, C. K., Jr., Forsyth bldg
Mathewson, E., Forsyth bldg
Swartz, A. C., Fiske bldg
Thomas, H. A., Forsyth bldg
FULTON—Shriner & Le May
GILROY—Campbell, C. L.
HERALDSBURG—Terry, J. W.
LONG BEACH—Starbuck & Ridgway
LOS ANGELES—Acker, A. L., 228 W. 4th
Albright, Harrison, Homer Laughlin bldg
Austin, J. C., Pacific Electric bldg
Barker, N. D., 122 W. 3d
Benton, A. B., 114 N. Spring
Bliesner, W. J., 211 W. 1st
Brown, C. H., 516 Stimson blk
Brown F. P., 608 S. Main
Burnham, F. P., 608 S. Main
Burton, J. Lee, Germain bldg
Cook, J. B., 709 S. Spring
Costerisan, G. F., 122 W. 3d
Dennis & Farwell, Currier bldg
Dorn, Fred R., 257 S. Spring
Dudley, Alpheus, Mason bldg
Dwight, H. H., Fay bldg
Edelman & Barnett, 233 S. B'way
Ehlers, P. W., 218 S. B'way
Elsen, Theo. A., Wilcox bldg
Farquhar, R. D., 326 W. 3d
Field, P. H., 232 S. Hill
Fitzhugh, Thornton, Laughlin bldg
Fripp, R. Mackey, 227 Mercantile pl
Garrett & Blxby, Currier bldg
Goodale, O. E., O. T. Johnson bldg
Haley, A. L., 103 W. 3d
Hebert, Maurice, Wright & Callender bldg
Heinlein, Fredk., 218 S. B'way
Helmle, C. F., 122 W. 3d
Howard, G. A., Jr., Grant bldg
Hubbell, C. E. W., 156 N. Spring
Hudson & Munsell, 256 S. Spring
Hunt & Eager, Laughlin bldg
Hunt & Grey, 408 S. Spring
Keel, J. R. & Co., Mason bldg
Kelly, A. R., 608 S. Main
Kendall, Edw. Co., 212 W. 3d
Kent, E. C., Grant bldg
Krause, J. W., 127 S. B'way
Krempel, J. P., 415 Henne bldg
Lee, Miss R. B., 4421 S. Vermont av
Long, U. O., 608 S. Main
Lourdou, F. X., 222 N. Main
MacGeorge, C. H., 218 S. B'way
Maginnis, Walsh & Sullivan, 106 W. 3d
Marsh & Russell, Stimson bldg
Martin, M. P., 315 S. B'way
Mohr, W. H., Laughlin bldg
Moore, Lester S., Grant bldg
Morgan & Walls, 232 N. Main
Neher, Otto H., Pac. Elec. bldg
Newberry, W. A., 608 Main
Norton, S. T., 253 S. B'way
Pape, P. C., 608 S. Main
Parkinson & Bergstrom, Union Trnst bldg
Parmentier, Fernand, Grant bldg
Patterson, H. M., 256 S. B'way
Preston, Thos., Currier bldg
Puttcamp, A. H., Severance bldg
Reeves, H. Allen, Cham. of Com. bldg
Reeves, Wm. H.
Rittenhouse, C. C., 206 S. Spring
Roberts, J. W., 426 S. Spring
Roehrig, Frederick L., 253 S. B'way
Rosenheim, Alfred F., H. W. Hellman bldg
Saunders, W. J., Mason bldg
Scott Bros., Chamber of Commerce
Shattuck & Brown, Mason bldg
Simons, F. E., 1194 E 34th
Skilling, Chas. F., Bradbury bldg
Smith, A. C., 307 S. B'way
Smith, J. C., 106 W. 3d
Soper, Fred J., Pacific Elec. bldg

Train & Williams, 254 S. B'way
Tyler, F. M., Laughlin bldg
Valk, L. B. Arch'tl Co., Stimson bldg
Voelkel, G. E., 847 E. 20th
Wackerbath, August
Warner, O. M., 739 Temple
Westberg, P. A., 256 S. Spring
Whittlesey, C. F. & Co., Auditorium
Wilson & Barnes, 212 Mercantile Pl
Wymau, G. H., Henne bldg
Young, R. B., 126 W. 3d
Zeller, J. T., 123 W. 31st
LOS GATOS—Cutter, Wm. H.
Lobdell, Frank
NAPA—Corbett, W. H.
Turton, L. M.
NEVADA CITY—Tomkins, O. A.
OAKLAND—Abbott, Wm., Bacon bldg
Alder, A. V., 1068 Broadway
Birmingham, T. W., 4401 Telegraph av
Bowser, A. M., 969 B'way
Brown, A. V., 914 E. 16th
Chivers, Herbert C. Co., Key Route Inn
Conant, John, 530 13th
Cook, Christopher M., Central Bank bldg
Deull, D. V., 578 9th
Dickey, T. W., Oakland Bank bldg
Forward, H. E., 203 Walsworth av
Holden, J. M., 1627 9th av
Irwin, Isaac, 1857 13th av
Kempf, H. A., 412 E. 18th
Knowles, Wm., Un. Saving Bank bldg
Linguist & Cederberg, 1055 Poplar
McCall & Whyte, Central Bank bldg
Matthews, W. J., 969 B'way
Mau, C. F., Macdonough bldg
Morgeneir & Drew, 36 Telegraph av
Newsom, J. C., Bacon bldg
Newson, T. D., 906 B'way
Reed, H. J. P., 465 48th
Ripley & Reynolds, Central Bank bldg
Schetzel, M. P., 906 B'way
Smith, A. W., 1004 B'way
Soderberg, Fred, Union Sav. Bank bldg
Starbuck, H. F., Macdonough bldg
Storch, H. W., 3112 E. 14th
Voorhees, F. D., Central Bank bldg
ORANGE—Bradshaw, C. B.
PALO ALTO—Olive, LeBown R.
Walker, R. H.
PASADENA—Allen, F. S.
Blick, Jas.
Buchanan, Chas. W.
Driscoll, Chas. F.
Edwards, W. B.
Greene & Greene
PLEASANTON—Weilbye, J. L.
POMONA—Davis, Ferdinand
Wolfe, Chas. E.
REDLANDS—Harris & Pratt
RIVERSIDE—Waldman, L. C.
SACRAMENTO—Campell, Alden W., Casey bldg
Herold, R. A., Bryte bldg
Schardin, F. H., Gerber bldg
Seadler & Hoehn, Gerber bldg
SAN DIEGO—Clements, G. C. & Co.
Gill, Irving J.
Kennedy & Craine
Quayle, Edw.
Stannard, J. B.
SAN FRANCISCO—Allen, Harris, Humb't B'k
Antonovitch & Cleghorn, 333 Kearney bldg
Applegarth, G. A., Claus Spreckles bldg
Armitage & Rowell, Bush & Kearney
Bakewell & Brown, 417 Montgomery
Banks & Copeland, 333 Kearney
Barnett, A. J., 414 Hermann
Barrett, Chas. H., 417 Montgomery
Barth, Hermann, 12 Geary
Berger, G. A., 736 Octavia
Blakie, Wm. B., Phelan bldg
Blaisdell, Nathaniel, 225 California
Bliss & Faville, Balboa bldg
Boese, Fred'k D., 45 Kearney
Bolles, Edward G., 68 Post
Bugbee, Maxwell G., 127 Montgomery
Burgren, Albert W., 222 Kearny
Burnham, D. H. & Co., Merchants Exch
bldg
Butterworth, Thos. C., 850 Treat av
Cahill, B. J. S., 571 California
Cantin, A. A., Phelan bldg
Carey, Jno W., Mills bldg
Carter & Foley, Claus Spreckles bldg
Childs, Elmer E., Phelan bldg
Chivers, Herbert C. Co., Claus Spreckles
bldg
Chivers & Carson, 1627 Sutter
Christensen, B. R., Pacific bldg
Coffey, Alfred J., Humboldt bldg
Colley, Chas. J., Pacific bldg
Cornelius, A. W., Metrop. Bank bldg
Coulter, Norman R., 943 Van Ness
Coxhead & Coxhead, 787 Market
Crim & Scott, 425 Kearny
Cunningham & Politeo, Chronicle bldg
*Curllett, Wm. & Son, Phelan bldg

Cuthbertson, W. J., 328 Montgomery
 Day, Clifton, Union Trust bldg
 Deane, Lionel, Phelan bldg
 Demartini, Paul, 69 Montgomery av
 Denke A. Reluhold, Humboldt Bank bldg
 Devlin, Chas. J. I., Phelan bldg
 Devlin, Leo J., 145 Buena Vista av
 Dickie, Chas. W., Balboa bldg
 Dodge, G. A., 244 Kearny
 Dolliver, J. W., Marline bldg
 Droft, T. C., Angelo Bank bldg
 Dunkerley, Victor, 704 Market
 Dutton, L. B., Chronicle bldg
 Ehrenpfort, Arthur T., 235 Montgomery
 Everett, Oliver, 1940 Webster
 Fabre & Mohr, Pacific bldg
 Farr, Albert, 68 Post
 Faville, W. B., Balboa bldg
 Flotron, P. E., Pacific bldg
 Freeman, J. Eugene, Kohl bldg
 Frye, Chas. C., Crocker bldg
 Garin, E. A., 37 Belvedere
 Gellfuss, Henry & Son, 150 Fulton
 Hart, Ralph W., 417 Montgomery
 Hatch, John D., Humboldt Bank bldg
 Haupt, Oscar, Humboldt Bank bldg
 Havens & Toepke, Mutual Sav. Bank bldg
 Hays, Wm. C., 68 Post
 Hedger, Henry A., 1608 Golden Gate av
 Heide & Evermann, 58 2d
 Herman, Emil A., Russ bldg
 Hildebrand, E. H., Crocker bldg
 Hind, W. G., Humboldt B'k bldg
 Hladik & Thayer, Pacific bldg
 Hobart, Lewis P., Crocker bldg
 Hodges, Charles E., Monadnock bldg
 Hoff & Hoff, 1673 Mission
 Holland, Frank S., Humboldt Bank bldg
 Howard & Galloway, 604 Mission
 Jacobs, Alfred Henry, 20 Montgomery
 John, Emil, Monadnock bldg
 John & Schmidlin, Monadnock bldg
 Jordan, Chas.
 Kidd & Anderson, 235 Kearny
 Kneiling, A., Union Trust bldg
 Knowles, Wm., Mutual Sav. Bank bldg
 Koenig, Wm., Phelan bldg
 *Kollofrath, Edmund, Phelan bldg
 Krafft, Julius E. & Sons, Phelan bldg
 Kuhl, H., Humboldt Bank bldg
 Laib, Arthur J., Russ bldg
 Lamb, Arthur H., Metropolitan Bank bldg
 Lampe, Ralph C., 750 Sanchez
 Lansberg & Joseph, Gunst bldg
 Lelardoux, P., 1449 Greenwich
 Lemme, Emil S., Phelan bldg
 Lenzen, Theo W., Humboldt Bank bldg
 Leonard, Jos. A., Humboldt Bank bldg
 Liehteustein, Milton, 111 Ellis
 Lutgens, A. C., 1700 California
 Lyon, Moses J., 127 Montgomery
 McCrear, Geo. E., 128 Sutter
 McDougall, Benj. G., Sheldon bldg
 McDougall Bros., Russ bldg
 McNally, C. S., Metropolitan bldg
 MacDonald & Applegarth, Claus Spreckles bldg
 Mackay, Henry S., 348 Pine
 Maggs, Herbert B., 233 Sansome
 Mahoney, W. C., 328 Montgomery
 Maritzen, August, 1226 Page
 Martens & Coffey, Humboldt Bank bldg
 Mastropasqua, Louis, Monadnock bldg
 Mathews, Edgar A., Phelan bldg
 Maybeck, Howard & White, Lick bldg
 Meussdorffer, Conrad A., Humboldt B'k bldg
 Meyer, Fred. H., Humboldt Bank bldg
 Meyers & Ward, Kohl bldg
 Miller, J. R., Lick bldg
 Miller, W. J., Oscar Luming bldg
 Milwain Bros., Phelan bldg
 Mitchell, W. Garden, Monadnock bldg
 Mooser, Wm., Union Trust bldg
 Morgan & Hoover, Merchants' Exch. bldg
 Mullgardt, Louis C., Chronicle bldg
 Murdoch & Smith, 208 Market
 Newman, W. A., U. S. Public bldgs
 Newsom, Sam'l & Sidney R., Humboldt B'k bldg
 Nickerson, Fred'k, 460 Market
 Nordin, August, Mills bldg
 O'Brien Bros. (Inc.), Clunie bldg
 O'Brien, Smith, Humboldt Bank bldg
 O'Brieu & Werner, 68 Post
 Oliver, Foulkes & Kaiser, Crocker bldg
 Overman, Phillip, Shreve bldg
 Paff, Chas. & Co., Merchants Exch bldg
 Parker, Walter H., Marston bldg
 Pelton, Jno. Cotter, Russ bldg
 Pissis, Albert J., Flood bldg
 *Reid Bros., Claus Spreckles bldg
 Remmel, B. E., Russ bldg
 Rhodes, William S., 3372 16th
 Righetti & Kuhl, Humboldt B'k bldg
 Rixford, Loring P., Mills bldg
 Roberts, J. L., Lick bldg

Ross, Thos. Patterson, 222 Kearny
 Rowell, J. W., Bush & Kearny
 Rousseau, Chas. J., 1490 California
 Rousseau, A. F. & C. M., 2200 Pine
 Rushforth, Geo., 571 Canal
 Ryland, C. T., 2095 Bush
 Salfeld & Kohlberg, 353 Kearny
 Sawyer, Houghton, Shreve bldg
 Schmidlin, M. A., Monadnock bldg
 Schmolle, W. L., 68 Post
 Schnalttcher, Sylvian, 787 Market
 Scholz, Arthur G., 16th & Mission
 Schroepfer, Albert, 68 Post
 Schulze, Henry A., 24 Canal
 Scott, E. B., 425 Kearny
 Sellon & Hemmings, 251 Kearny
 Sexton & Nicholson, Chronicle bldg
 Shea, W. D. Co., 350 Larkin
 Shea & Lofquist, 550 Montgomery
 Shermund, Henry, Mills bldg
 Smith, Thomas, Lick bldg
 Stone & Smith, Mechanics B'k bldg
 Sittou & Weeks, Mutual Sav. Bank bldg
 Tennler & Welsman, Pacific bldg
 Traphagen, O. G., 244 Canal
 Trowbridge & Livingston, Crocker bldg
 Van Benthuysen, Boyd, 460 Market
 Van Trees & Hildebrand, Crocker bldg
 Vogel, Edward J., Shreve bldg
 Ward, Clarence R., Kohl bldg
 Weeks, W. H., Cochrane bldg
 Welsh & Carey, Mills bldg
 White & Schumacher, 45 Kearny
 Whittlesey, Charles F., Pacific bldg
 Woollett, W. L., Monadnock bldg
 Wright, Rushford & Cahill, 571 California
 Young, Edw. E., 35 Montgomery
 STANFORD UNIVERSITY—Hodges, Chas. E.
 SAN JOSE—Binder, Wm., Rea bldg
 Klinkert, Wm., Ryland bldg
 Lenzen, Jacob, 75 E St. Clara
 Lenzen & Son, 110 S 2d
 Page, Geo. W., Rea bldg
 Phillips, W. C., 384 N 6th
 Wolfe & McKenzie, Smout bldg
 SAN RAFAEL—Schlosser, Henry
 SANTA ANA—Bithers, A. S.
 SANTA BARBARA—Curlitti, J. L.
 Higginson & Ray
 Nixon, Thos.
 Wilson, Francis W.
 SANTA CRUZ—Van Cleeck, E. L.
 SANTA MARIA—Doom, G. M.
 SANTA ROSA—Patton Bros.
 STOCKTON—Brown, E. B.
 Kiug, Walter
 Wood, W. E.

COLORADO.

BOULDER—Craig, C. H.
 Redding, Wm. & Son
 Saunders, Arthur E.
 Shockley, I. T.
 Wright, C. H.
 CANON CITY—Jensen, A. C.
 COLORADO SPRINGS—Barber, T.P., B'k bldg
 Bryson, Geo. M., Hagerman bldg
 Douglas & Heatherington, Out West bldg
 Hastings, Frederic R., 22 N. Tejon
 MacLaren & Thomas, Bank bldg
 Pease, L. A., Reed bldg
 Van den, Areud N., Hagerman bldg
 DENVER—Baack, F. W., 807 17th
 *Baerresen Bros., Mack bldg
 Bailey, Howard S., 910 Equitable bldg
 Benedict, J. B., Ernest & Cranmer bldg
 *Bettcher, George L., Mack bldg
 *Biscoe & Hewitt, 25 E. 18th av
 Child, W. T., Evans blk
 Consolidated Engineering Co., Boston bldg
 *Cove, Wm., 510 Mack blk
 *Dryden, D. W., Temple Court
 Eagleton & Mountjoy, Empire bldg
 *Eberley, F. C., Good blk
 Edbrooke, F. E. Architect Co., 510 Opera House blk
 *Edwards, W. Harry, 1715 California
 *Fallis & Stein, Colorado bldg
 *Fisher, Wm. E. & Bro., Rail. Ex. bldg
 Frank, H. C., Majestic bldg
 Freneb, P. M., Empire bldg
 Gates Bros., Ideal bldg
 Goodnow, Franklin, Bank bldg
 *Gove & Walsh, Bank bldg
 *Harnois, F. Louis, 100 E. 16th av
 Huddart, John J., 42 Bank bldg
 *Huntingdon, G. W., McPhee bldg
 Kilroy, Jno. C., Carlton Hotel bldg
 McIntyre, Thos W., El Paso bldg
 *Marean & Norton, Shirley Annex
 Miller, L. Valentine, 1513 Stout
 Moorman, E. H., Ideal bldg
 *Murdoch, Jas., 610 Mack bldg
 Patton, G. A., Empire bldg
 Phillips, Richard, Jackson bldg
 Reynolds, A. W., Majestic bldg

Rice, W. L., Mack bldg
 *Roesehlau, Robt. S. & Son, 52 King blk
 Smith, C. W., Temple Court
 *Snell, Frank S., Commonwealth bldg
 *Sterner & Williamson, Jackson bldg
 Taylor, Wilford H., 1433 Temple Place
 Varian & Variou, Colburn bldg
 *Wagner & Manning, Majestic bldg
 Ward, C. F., Empire bldg
 Wieger, T. Robt., 628 E. 14th
 *Wilson, Jos., 711 17th
 DURANGO—Smith, Silas W.
 Tiffany, J. E.
 FORT COLLINS—Fuller, M. W.
 Williams, E. Francis
 GLENWOOD SPRINGS—Rosenberg, Theo.
 GRAND JUNCTION—Boyer, J. B.
 *Wells, L. A.
 Wilson, J. R.
 GREELEY—Foult, S. W. & Son
 HOWARD—Miller, K. H.
 LA JUNTA—Kranz Bros.
 PUEBLO—*Cooper & Robertson
 Fry, Wm. A.
 Gilé, J. M.
 *Roe, Geo. W.
 ROCKY FORD—Burnett & Richardson
 SALIDA—*Andersou, C. J.
 SILVERTON—Dale, Chas.
 TRINIDAD—Conkie, Jno.
 Rapp, I. H. & W. M.

CONNECTICUT.

BRIDGEPORT—Asheim, Leonard
 Beardsley, C. T. Jr., 155 State
 Beckwith & Jackson, Arcade bldg
 *Briggs, Warren R., 946 Main
 Cooper, F. A., 1217 Main
 Howe, H. A. Jr., 211 State
 Jayne, Auselm F., 152 Frank
 Lambert, Hy. A., Fairfield av
 Lamson, Harrison, 2009 North av
 Northrup, Jos. W., Court Ex. Bldg.
 O'Brien, Jos. A., 157 State
 Southey, Ernest G., Broad st.
 BRISTOL—Stewart, C. W.
 DANBURY—*Blackman, W. B.
 Bunnell, John L.
 Foster Bros.
 Sutherland, Philip
 DERBY—Reilly, Dennis E.
 EAST HADDON—Morgan, Geo. W.
 FAIRFIELD—Kelley, C. H.
 GRANBY—Shattuck, A. D.
 HARTFORD—Allen, Isaac A., Jr., 904 Main
 Barker, Russell, F., 49 Pearl
 Bayley, L. D., 839 Main
 Becker, Willis E., 847 Main
 *Brooklesby & Smith
 Curtis, H. J., 61 Imlay
 Curtis, H. J., 26 State
 Davis & Brooks, 49 Pearl
 Dwyer & McMahon, 36 Pearl
 Gilbert, George H., 67 Willard
 *Hapgood, Edw., 36 Pearl
 Johnson, Wm. D., 26 State
 *Keller, Geo., 11 Park Terrace
 O'Donohue, M., 87 Hawthorn
 *Scoville, A. W., 756 Main
 *Scoville, William H., 720 Main
 Sellers, B. A., 756 Main
 Smith & Des Champs, 93 Barker
 *Svenson, Chas., 54 Woodbine
 Whitmore, Chas. O., 75 Pratt
 Whiton, Frank W., 118 Capen
 Zunner, Geo., 756 Main
 JEWETT CITY—Palmer, Jas.
 MERIDEN—Bloomfield, David
 Palmer, Chas. S.
 MYSTIC—Greenman, G. B.
 Rathbone, John S.
 NAUGATUCK—Clark, F. Alton
 NEW BRITAIN—Cadwell, Wm. H.
 Crabtree, Walter P.
 McCarthy, John J.
 Slater, Frank
 Unkelbach, Max J.
 NEW HAVEN—Allen & Williams, 82 Church
 Berger, C. E., 29 Nash
 Brown, Frank E., 116 Church
 Brown & Von Beren, 865 Chapel
 Doherty, Timothy F., 195 Poplar
 Foote & Townsend, 902 Chapel
 Joy, Chas. E., 902 Chapel
 Richards, B. F., 65 Main, W. H.
 *Robinson, Leonl W., 865 Chapel
 Sellers, Phillip, 756 Chapel
 Sperry Engineering Co., 82 Church
 NEW LONDON—Donnelly, D. St. C.
 Duffy & George
 Sweeney, James
 NEW MILFORD—Birdsell, Christopher
 NORWALK—(See South Norwalk)
 NORWICH—Cudworth & Woodworth, 148 Main
 Hiscox, Jas. A., 37 Franklin
 Preston, C. H., 43 B'way
 PUTNAM—Corbin, E. M.

ROCKVILLE—McCrary, J. H.
 SOUTH NORWALK—Banks, John W., East Nor.
 Hamilton, John A.
 Hoyt, D. E.
 Minor, Henry R.
 Morehouse, Ferris S.
 Paddock, A. N., East Norwalk
 STAFFORD SPRINGS—Converse, Albert
 STAMFORD—Emmons, Nelson
 Hallett, Wm. T., Whitney bldg
 Hofer, H. Wm., 963 E. Main
 Marvin, Henry, Burlington Arcade
 Morrell, C. Edwin, 176 Atlantic
 TOKRINGTON—Clinton, G. R.
 Racherer, T. A.
 Waterbury, E. H.
 WALLINGFORD—Becroft, Wm. E.
 WATERBURY—Bailey, Chas. J., 63 Bank
 Benedict, E. E., 51 Leavenworth
 Duhalme, John B., 95 Bank
 Freney & Jackson, 51 Leavenworth
 Griggs & Hunt, 51 Leavenworth
 Peck, Theo. B., 65 Bank
 Smith, Joseph T., 36 N Main
 Walsh, Louis A., 51 Leavenworth

DELAWARE.

GEORGETOWN—Jones, C. R.
 WILMINGTON—Brinckly, Wm. D., Equitable
 Brown, Walter S., Ford bldg
 Cloud, Newton H., 338 Market
 Hill, Harry A., Ford bldg
 Hope & Tlssel, 813 Dupont
 Thompson, Jno. D. Jr., Ford bldg
 Tindall, Roscoe C., Equitable bldg

DISTRICT OF COLUMBIA.

WASHINGTON—Ash, Percy, Home Life bldg
 Atkinson, Fred'k G., 642 9th, N E
 Beers, Albert H., 1333 G, N W
 Bond, Theo. D., 1725 H, N W
 Brooke, Fred'k H., Hibbs bldg
 *Brown, Glenn, 806 17th, N W
 Brown, Ward, 1725 H, N W
 Clark, Appleton P., 605 F, N W
 Conover, Harry F., 1121 I, N W
 Cooper, George S., 1413 G, N W
 Davis, Wm. T., Stewart bldg
 de Sibour, Jules H., Hibbs bldg
 Dessez, Leon E., 1421 F, N W
 Didden, C. A. & Sons, Corcoran bldg
 Dodge, Chas. C., 1419 G, N W
 Fisher, Henry, 20 Lanier Pl.
 Fitzsimmons, A. B., 2112 R, N W
 Fletcher, Fred'k A., 1413 G, N W
 Fuller, Thos. J. D., 813 15th, N W
 Germailler, Julius, 456 La. av, N W
 Gocner, Albert, 35 B, N W
 Gregg, Chas., 1320 New York av, N W
 Grimm, Nich. R., 625 F, N W
 Haller, Nicholas T. Co., Corcoran bldg
 *Harding & Upman, 729 15th, N W
 Harkness, Chas. A., 1026 25th, N W
 Heaton, Arthur B., 1319 F, N W
 Hensley, Melville D., 1300 F, N W
 *Hill & Kendall, Corcoran bldg
 *Hornblower & Marshall, 1516 H, N W
 Hunter & Bell, 518 10th, N W
 Jackson, Frank H., 1419 G, N W
 Keene, Chas., 1410 H, N W
 *Kefenstein, Carl B., Home Life bldg
 Lankford, John A., 317 6th, N W
 Lepley, M. G., 1301 G, N W
 Lindsey, Arthur R., Kenilworth
 Maclier, Henry, 1424 New York av, N W
 *Marsh & Peter, 520 13th, N W
 Meyers, B. Frank, Bond bldg
 Milburn, F. P. & Co. (Inc.) Home Life bldg
 Morrill, Milton D., Corcoran bldg
 Mullett, A. B. & Co., Union Trust bldg
 Palmer, Wm. J., Warder bldg
 Pelz, Paul J., Corcoran bldg
 Pierson, Frank G., 1355 Oak, N W
 Plittman, W. Sidney, 494 La. av, N W
 Plager, Wm. S., 3 B, N W
 Pohl, George R., 2009 12th, N W
 *Poindexter, Wm. M., 806 17th, N W
 Pratt, Henry C., 1517 H, N W
 *Pyle, Fred'k B., 1003 F, N W
 Remey, Chas. M., 1527 N H av, N W
 Roberts, T. Kent, 816 17th, N W
 Schenck, Wm. A., Colorado bldg
 Schneider, Ferd. T., 1314 F, N W
 Schneider & Hales, 718 14th, N W
 Seibert, S. Rush, Ebbltt house
 Simmons, B. Stanley, 931 F, N W
 Sonneman, Alex. H., 1413 G, N W
 Spelden & Spiden, 1403 N Y av, N W
 *Stead, Robert, 904 F, N W
 Sunderland, Erskine M., Ouray bldg
 Taylor, James K., Supervising Arch., U. S.
 Trcas. Dept.
 Tolman, Geo. R., 1425 F, N W
 *Totten, G. Oakley, Jr., 808 17th, N W
 Vaughn, Merrill T., Greendale
 Vogt, Oscar G., Corcoran bldg

Volland, Edw. D., 311 R, N W
 Von Herbulis, Albert O., 1416 F, N W
 Wagner, Wm. F., 1330 13th, N W
 Warner, James H., 602 13th
 Webb, C. Edgar, Warder bldg
 Weissenborn, Leo J., 808 17th, N W
 Wenig, Julius, 1223 F, N W
 West, Claughton, 1301 G, N W
 Wood, Donn & Deming, 808 17th, N W
 Wyeth, Nathan S., 1517 H, N W

FLORIDA.

DE LAND—Davis, M.
 JACKSONVILLE—Camp, W. B., Livingston bldg
 Duffy, C. J., 2031 Herschel
 Ehmann, Emil A., Masonic Temple
 Gilkes, A. B., 117 Laura
 Hawkins, J. H. W., Realty bldg.
 Holmes, Rutledge, 117 Laura
 Klutho, H. J., Board of Trade bldg
 McClure & Holmes, 135 Bay
 Talley, W. B., West bldg
 Walsh, J. R., Herkimer bldg
 KEY WEST—Lowe, B. B.
 Welker, D. B.
 LEESBURG—Campbell, H. L.
 Ocala—MacKay, Geo.
 PENSACOLA—Blount, F. M.
 Frederick, W. C.
 Turner, C. H. Cons. Co.
 Willis, W. D.
 ST. AUGUSTINE—Milburn, C. M.
 SANFORD—Snead, J. C.
 TAMPA—Bonfoey & Elliott
 Curtis, F. M.
 Drake, Louis F.
 James, Fred. J.
 Johnson, A. H.
 Miller & Kennard
 Shaw & Jay

GEORGIA.

ATLANTA—Allen, W. H., 4th Nat'l Bank bldg
 Arnold, C. V., 197 Glenwood av
 Battle, J. C., Prudential bldg
 Bleckley, H., Empire bldg
 Brown, A. Ten Eyck, 71 N. Forsyth
 *Bruce, Alex C., 327 N. Boulevard
 Carpenter, R. H., Austell bldg
 Chapman, H. K., 134 East av
 Choate, Chas. E., Candler bldg
 Cooksey, J. S. Jr., Inman bldg
 Dallis, P. A., (Mill Arch & Eng.), Candler
 Dougherty, E. E., 313 Candler bldg
 *Downing, W. T., Prudential bldg
 Dozier, Miss H. C., Peters bldg
 Edwards & Walter, Candler bldg
 Everett, A. F. N., English Am. bldg
 Foote, G. W., 56 Inman bldg
 Frazier, C. E., English Am. bldg
 Head & Cooksey, English Am. bldg
 Jones, Lamar, Century bldg
 Laine, Geo. W., Peters bldg
 MacEachron, J. Reginald, 75 W. Peachtree
 Marye, P. Thornton, Equitable bldg
 *Morgan & Dillon, Prudential bldg
 Morris, M. E., Century bldg
 Murphy, G. E., Candler bldg
 *Norman & Falkner, Candler bldg
 Pugin, B. A., 97 Peachtree
 Seitz, E. C. Co., Lowndes bldg
 Smith, C. H., 2 W. Ellis
 Stewart, Geo. W., Candler bldg
 Thompson, Geo. C., Candler bldg
 Wachendorff, E. C., Empire bldg
 Walker, A. F., Austell bldg
 Walker, H. L., Studio bldg
 AUGUSTA—Goodrich, L. F.
 Kemp & Wendel
 MacMurphy & Story
 Preacher & Holman, Dyer bldg
 BAINBRIDGE—Wheeler, Geo. Q.
 BRUNSWICK—Anderson, W. C.
 COLUMBUS—Lockwood, T. F.
 Smith, T. W. & Co.
 MACON—Blair, Alexander
 Cntter, H. D.
 Dennis, P. E.
 Ellis, C. R.
 Happ, Frank R.
 Nesbet, Carlyle
 SAVANNAH—Diller, L., Nat'l Bank bldg
 Kops, J. deBruyn, 27 E Bay
 Nevit, John J., 123 E. Henry
 Sugden, Percy, 20 Drayton
 Urban, Henry, Provident bldg
 Wallin & Young, German Bank bldg
 Whitcover, H. W., Nat'l Bank bldg
 WAYCROSS—Myers, C. B.

HAWAII.

HONOLULU—Gill, T.
 Kerr, H. L.
 *Traphagen, Oliver G.

IDAHO.

BOISE—Cartee, Ross
 Tourtellotte, J. E. & Co.
 Ward, C. F.
 Wayland & Fennell
 POCATELLO—Brown, H.
 Grundfor, M.

ILLINOIS.

(Licensed Architects of Illinois)

ALHAMBRA—Oswald, Fridolln
 ALTON—Maupin, Jas. M., 307 George
 Nixon, Uffen S., Bell & 3d
 Pfeiffenberger, L. & Sons, 102 W 3d
 ARMAWAN—Hawk, Mark
 ATKINSON—Chapler, Elijah C.
 Millar, Wallace L.
 AURORA—Malmer, Eugene, 249 Grove
 Worst & Shepardson, 341 Coulter blk
 BELLEVILLE—Rubach, Otto W.
 BLOOMINGTON—Miller, Geo. H., Evans bldg
 Moratz, Paul O., 1st Nat'l B'k bldg
 Pillsbury, Arthur L., Griesheim bldg
 CAIRO—Jenkins, John S., Commercial av
 Kusener, Casper, Alex. Co.'s, Nat. Bank
 CARBONDALE—Thompson, Thos. S.
 CARTHAGE—Payne, Geo. W. & Son
 CHAMPAIGN—Brown, Seely, 411 W University
 Case, Jno. W., 211 W University av
 Clark, Chas. R., 105 Chalmers
 Hubbard, Archie H.
 Leonard, Edith, 1003 S. 6th
 Spencer, Nelson S., Karihar bldg
 Temple, Harry R., Karihar bldg
 Vredenbergh, Hachaliah, Illinois bldg
 CHARLESTON—Maxwell, Benj. R., 411 Harri-
 Mitchell, Chas. D., 16 6th son
 CHICAGO—Abbott, Frank B., 164 Dearborn
 Adler, Abraham K., 215 Dearborn
 *Ahlschlaeger, John, 70 La Salle
 Allison, Lyman J., 115 Dearborn
 Alloway, Wilmore, Marquette bldg
 Almquist, Carl M., 112 Clark
 Alschuler, Alfred S., Fort Dearborn bldg
 Andreu, Theodor, 1335 Belmont av
 Armstrong, Jno. A., 218 La Salle
 Artlingstall, Samuel G., 280 La Salle
 Ashby, Geo. Wm., Medina bldg
 Ayars, Chas. R., 90 Washington
 Bailey, Cyrus, 204 Dearborn
 Bannister, Geo. S., 10227 Wood
 Barfield, Wm. G., 87 Washington
 Barnes, Julian, Association bldg
 Barrett, Fred. L., 2695 N 42d av
 Barthel, Julius Bernard, 79 Dearborn
 Barton, Francis M., Medina bldg
 Baumann, Fred'k, 43 Pine Grove av
 *Beaumont, George, 115 Dearborn
 *Beers & Beers, Orchestra bldg
 Behel, Vernon W., 115 Dearborn
 Beller, Henry P., 283 E. North av
 Belden, Edgar S., 204 Dearborn
 Bell, Theodore N., 188 Madison
 *Beman, Solou S., Fine Arts bldg
 Bennett, A. J. T., 1442 Lexington av
 Bennett, Wm. Arthur, Monadnock blk
 Benson, Edw., 1779 N Clark
 *Berlin, Robert C., 153 La Salle
 Bessler, Edw. W., 820 W 12th
 Blshop, Thos. R., 167 Dearborn
 Bjork, David T., 3297 N. Sawyer av
 Blondin, Edward A., 5459 State
 Borst & Hetherington, 100 Wash'n
 Bourke, Robt. E., 5620 Michigan av
 Bowen, Howard, 108 La Salle
 Bowes, Fred'k Wm., 1525 N Central Park av
 Brabant, Frank J. E., 79 Dearborn
 Brandner, Ludwig T., 98 Fremont
 Brandt, Berkley G., 9 Jackson boul
 Brancher, Ernest N., 2790 W. Monroe
 Bright, Jasper T. (care of O. L. Watson),
 160 Washington
 Brill, Geo. M., 204 Dearborn
 Brinkmann, Wm. J., Ashland blk
 Brodhag, Louis, 84 La Salle
 Brompton, Jos. C., 112 Clark
 Brooks, Thos. M., 2667 N. Hermitage av
 Brown, Arthur G., 153 La Salle
 Brown, W. R., 5439 W. Superior, Austin
 Station
 Brueckner, Carl Louis, 217 Center
 Brush, Chas. E., 99 Randolph
 Buck, Lawrence, Steinway Hall
 Buck, Nels, 145 La Salle
 Buckley, Asbury W., 26 Van Van Buren
 Buerger, Albert Jr., 2133 W 12th
 Burfeind, Wm. F., Security bldg
 *Burnham, D. H. & Co., 9 Jackson boul
 Burns, Jas., Chicago Opera House bldg
 Butts, Julius A., 370 S Paulina
 Carr, Geo. Wallace, 21 Van Buren
 Charvat, Anton, 814 Ashland av
 Chase, Frank D., 1000 Ill. Central Station
 Chatten, Melville C., 17 Van Buren

Chubb, John D., 112 Clark
Church, Myron H., 204 Dearborn
Church, Walter S., Marquette bldg
Clark, Edwin H., 175 Dearborn
Clark, Robert C. (care Armour & Co.),
205 La Salle

*Clay, Wm. W., 218 La Salle
Cloyes, Fred'k O., Fisler bldg
Cobb, Wm. H., 87 Washington
Coffin, Arthur S., 109 Randolph
Cohen, Isadore, Monadnock bldg
Colcord, Albert E., 108 Dearborn
Cole, Arthur W., 204 Dearborn
Crowen, Samuel N., Stock Exchange bldg
Davidson, Frank E., Monadnock blk
Davis, Zachary T., Steiuway Hall
Dean & Dean, 218 La Salle
DeMoney, Frank O., 144 La Salle
Dennis, Chas. A., 79 Dearborn
Devine, Nicholas S., 491 Winchbester av
Dibelka, Jas. B., 112 Clark
Dinkelberg, Fred'k P., 135 Adams
*Doerr, J. F. & J. P., 138 Wash'n
Dornfeld, J. F., 134 Van Buren
Dorr, John L., 7120 Langley av
Dougherty, Floyd C., 5046 Jefferson av
Dowling, Edw. F., 140 Dearborn
Downs, Edwin L., 9 Jackson boul
Duesing, Theo., 1293 W 22d
Duucan, John, 87 Washington
Dunning, N. Max, 167 Dearborn
Durkee, Arthur R., Manhattan bldg
Dwen, Rob't G., 3736 Ellis av
Eckstrom, Christian A., 131 La Salle
Egan & Prindeville, 17 Van Buren
Eichberg, S. Milton, 109 Randolph
Falls, Alex. S., Northern Trust Co. bldg
Ferrel, Albert G., 404 W 63d
Fielder, Fred. A., 167 Dearborn
Fischer, Fred'k Wm., 9154 Commercial av
Fischer, John B., Old Colony bldg
Fisher, Albert J., 816 N. Claremont av
*Flanders, John J., 70 Dearborn
Flegel, Albert L., 1586 Jackson boul
Flesch, Eugene W. P., 112 Clark
Fletcher, Robert C., 172 Washington
Flizikowski, John S., Lafayette bldg
Floto, Julius, Monadnock bldg
Foehringer, Fred'k, 34 La Salle
*Foltz, Fritz, 140 Dearborn
Fortin, Jos. T., 7 Blue Island av
Foster, Arthur, 234 La Salle
Fowler, Geo. J., 940 Greenleaf av
Fox, Chas. E., 1st Nat'l Bank bldg
Frouman, Emil H., Schiller bldg
*Frost & Granger, 181 La Salle
Fry, Frank L., 204 Dearborn
Fullenweider, Arthur E., 7209 Harvard av
Fuller, Alex. A., 42 E. Madison
Furst, Chas. J., 172 Washington
Gall, Wm. F., 79 Dearborn
Gardner, Horace C., U. S. Y., Swift Co.
Garnsey, Geo. O., 185 Dearborn
Gassman, Andrew P., 138 Wash'n
Gatterdam, Fred. E., 163 Randolph
Gauger, Wm., 112 Clark
Gaul, Herman J., 172 Wash'n
Gerber, Arthur U., 3631 S Halsted
Gerhardt, Paul, Schiller bldg
Gibb, Wm. R., 169 Jackson boul
Gilbert, Geo. H., 246 60th
Gillette, Edwin F., 140 Dearborn
Goldberger, Maximilian S., 5246 Calumet
Goodman, Wm. C., 1305 W Adams
Graham, Ernest R., Railway Exchange bldg
Griesser, Richard, Schiller bldg
Grotz, Chas. J., 1252 N. California av
Grussing, Geo. H., 165 Randolph
Gubbins, Wm. F., 685 Ogden av
Guenzel, Louis, 115 Monroe
Hale, Perley, Atwood bldg
Hall & Baker, 153 La Salle
*Hallberg, Lawrence G., Oxford bldg
Hammond, Chas. Herrick, Ft. Dearb'n bldg
Hancox, Chas. J., 2 Campbell Park
Handy & Cady, 172 Washington
Hansen, Christian O., 244 Dearborn
*Hansen, Harold M., 88 La Salle
Hansen, Paul, 952 Hollywood av
Harlev, Wm., Jr., 114 Dearborn
Harned, Hy. P., Continental Bank bldg
Harrison, Edw. L., 34 Campbell Pk. 'boul
Harvey, Geo. L., 175 Dearborn
Harvey, John, 9749 Av H
Hatzfeldt, Clarence, 143 Dearborn
Hawk, Albert T., 806 La Salle st Station
Hecht, Albert, Reaper bldg
Heinz, Lorenz H., 78 La Salle
Hermann, Chas. F. (City Arch.), City Hall
Herr, Thornton A., 154 Washington
*Hettinger, John P., Journal bldg
Henn, Arthur, Steinway Hall
Higgins, Francis J., 107 Evanston av
*Hill & Woltersdorf, 70 La Salle
Hine, Cicero, 263 Wabash av

Hobbs, Raymond M., 6065 Jefferson av
Hodgdon, Chas., 206 LaSalle
Hodgkins, Howard G., Steinway Hall
Hoermann, Carl, 171 Washington
Hoffman, H. Curtis, 311 W. 72d
Hogenson, Edw. A., 2727 Magnolia av
*Holahld & Roebke, 1618 Monadnock bldg
Holden, Ben E., Railway Exch. bldg
Holmboe, Leonard C., Illinois Steel Co. So.
Chicago

Holmes, Morris G., Hartford bldg
Holsman, Henry K., Monadnock blk
Hoskins, John M., 1280 W Madison
Hotton, Bartholomew J., 109 Randolph
Houda, Jos. F., Roanoke bldg
*Huber, Julius H., 171 Wash'n
*Huehl & Schmid, 163 Randolph
Hughes, Andrew P., 423 W 69th
Hulla, John, Medinah bldg
Hunt, Jarvis, Monadnock bldg
Hussander, Arthur F., 143 Dearborn
Hyde, Robt. M., 933 S. Sawyer av
Hyland, Paul V., Heyworth bldg
Ingalls, Arthur R., 7207 Yale av
Ingram, Horace C., Corn Exch. Bank bldg
Jaffray, Henry S., 9249 Kilmark av
Jebson, Ernest, 109 Randolph
Jensen & Mundie, 171 La Salle
Jobson, C. Frank, Pullman bldg
Johnson, Oscar, 1119 Sheffield av
Johnstou, Jos. S., 359 43d
Johnston, W. K., 184 La Salle
Jyreh, Karl E., 859 Washington boul
Kaiser, August, 428 California av
Kaiser, Otto, 1799 Milwaukee
Kallenbach, Henry J., 526 Cornelia av
Karbach, Chas. W., 556 S. Central Park av
Kelley, Irving W., 79 Dearborn
Kennard, De Witt T., 226 E 63d
Kingsley, George S., 36 La Salle
Kintz, Geo. A. W., Washington heights
Kirkpatrick, Robt. A., 746 E. 48th
Klafter, David Saul, 79 Dearborn
Klewer, Wm. L., 109 Randolph
Klučina, John, 1185 S. Homan av
Kuudson, Johan F., 131 La Salle
Koenig, Fred, 1656 Greshaw
Kobfeldt, Walter G., 651 31st
Koll, Henry G., 950 Elston av
Koster, John L., 185 Dearborn
Kouhn, Jno. J., 84 Adams
Krause, Edmund R., Majestic Theatre bldg
Krieg, Wm. G., 117 Market
Kuehne, Carl Osear, 171 Ceuter
Kupfer, Otto A., 904 Millard av
Lang, Albert, Chicago Savings Bk. bldg
Lang, Fritz, 700 Milwaukee av
Larmon, Philip, care of Libby, McNeil &
Libby, U. S. Y.

Layer, Robert, 1327 Milliard av
Lehle, Louis, 103 Randolph
Levy, Alex. L., 112 Clark
Lewis, John, 15 Gladys av
Liedberg, Hugo J., 163 Randolph
Linderoth, Swen, 5844 S. Elizabeth
Lindquist, Fred'k, 1408 Franklin boul
Llewellyn, Jos. C., First National B'k bldg
Lonek, Adolph, Roanoke bldg
Lovell, Sidney, 164 Dearborn
Lowden, Alex. H., 163 Randolph
Lowe, Elmo C., Corn Exch. Bank bldg
Luebkert, Otto, 65 S. Clinton
Lund, Anders G., 602 W 63d
McAfee, Chas. H., 36 La Salle
McCall, Thos., 1710 Railway Exchange
McGavick, Jos. P., 17 Van Buren
McMichael, Jno., 6023 Calumet av
McMullen, Henry J., 1618 W 12th
Mahaffey, David, 84 La Salle
Maher, Geo. W., 218 La Salle
Mann, Wm. D., 912 Evanston av
Marshall & Fox, 164 Dearborn
*Matz, Otto H., 78 La Salle
Maurer, William, 608 Augusta
Mayo, Ernest A., 204 Dearborn
Mead, Dan'l W., 1st Nat'l Bank bldg
Meldahl, Jens J., 138 Washington
Merrick, Harry A., 46 Palmer av
Metcalf, John S. Co. (Grain Elevator, etc.),
Women's Temple

Miller, Harvey C., 204 Dearborn
Miller, Jos. A., 59 Clark
Miller, William C., 69 S 41st av
Mitebell, Louis M., 145 La Salle
Molitor, Jos. Jr., 160 Washington
Morehouse, Merritt J., 702 Fisher bldg
Morey, Arthur G., 145 La Salle
Morrison, Jno. C., 185 Dearborn
Mosher, E. Bradford, 5830 Rosalie Ct
Mueller, Herman, 561 S Asbland av
Mullay, Tbos. H., Monadnock blk
Murphy, John H., Fisler bldg
Nagle, Geo. A., 108 La Salle
*Neebe, Jno. K., 598 W Chicago av
Neebes, Geo. S., 5222 Indiana av

Nelson, Edward O., New York Life bldg
Nettenstrom, Joel U., 926 Melville pl
Nen, Matthew, 151 93d
Newberry, Robert Thorne, 184 La Salle
Newell, Frank V., 185 Dearborn
Newhouse, Henry L., 4630 Prairie av
Newman, Edgar M., Stock Exch. bldg
Newman, Wm. L., 909 Jackson boul
Nicholson, Jos. T., 6112 Lex. av
Nicholson, Wm. A., 6341 Greenwood av
Niemz, Arthur R., 253 La Salle
Nimmons & Fellows, 204 Dearborn
Norman, Andrew E., 802 Devon av
Norton, Francis J., Kenmore av, Edge-
water

Nothnagel, Cbas. W., 914 W 67th
Novy, Ludwig, 1618 W 22d
Nyden, John A., 218 La Salle
Ohlhaber, Wm., 134 Park
Ohrenstein, Ernest J., 1st Nat'l Bank bldg
Orr, Edw. Ellsworth, 6307 Chatham av, "A"
Ostergren, Robt. C., 2939 Vernon av
*Otis, Wm. A., 175 Dearborn
Otteneimer, Henry L., Fort Dearborn bldg
Packard, Allyn A., Federal bldg
Pagels, Wm. F. S., 34 Clark
*Palmer, C. M., 1207 Monadnock blk
Pashley, Alfred F., Manhattan bldg
Patelski, Erich J., 160 Washington
*Patton & Miller, 140 Dearborn
Pentecost, Douglas S., Unity bldg
Perkins, Frank W., 7724 Hawthorne av
Perkins, Fred'k W., Isabella bldg
Perkins & Hamilton, 140 Dearborn
Perry, Walter E., Chi. Sav. Bank bldg
Pfeiffer, Geo. L., 1124 W 12th
Pistorius, Henry, Tribune bldg
Pleins, Leo H., 2440 Wayne av
Pond & Pond, 17 Vanburen
Pope, John Francis, Unity bldg
Postle & Mahler, 204 Dearborn
Poulson, Edw. Ja., 1466 N Francisco
Powers, Horace S., Steinway Hall
Poyer, A. & Son, 10536 Vincennes rd
Pridmore, John E. O., 164 Dearborn
Probst, Edward M., 794 Millard av
Prugn, Wm. H. Jr., 4217 Berkeley av
Purssell, Geo. G., 2022 W Madison
*Quackenboss, Leonard G., 108 5th av
Rae, Robert, Jr., 4935 Champlain av
Raeder, Henry, 77 Jackson boul
Randak, Frank, 59 Clark
Randolph, Smith M., Security bldg
Rapp, Cornelius Ward, 100 Washington
Rapp, Geo. Leslie, 100 Washington
Rawson, Lorin A., 17 Van Buren
Reilly, Solen L., 6043 Prairie av
Reuwick, Edw. A. (See Holahld & Roche),
Monadnock bldg

Reynertson, Theis J., 1082 N. 40th av
Rich, Chas. C.
Rich, Evert, 234 La Salle
Rich, Harry Folsom, 315 Dearborn
Richards, Henry H., 134 Van Buren
Riddle, Herbert H., 164 Dearborn
Riddle, Lewis W., 164 Dearborn
Riegert, Emil, 74 Racine av
Rinn, Chas., 774 W. Montrose av
Ritter, Louis E., Marquette bldg
Robertson, David, 107 Randolph
Robinson, Argyle E., 84 La Salle
Rogers, Jno. A., Ashland blk
Rohm, Jean Baptist, 1505 Humbolt av
Rosenthal, Alex. B., Chi. Opera Hse. blk
Ross, Henry J., Railway Exch bldg
Roth, Edgar, 806 La Salle st Station
Rouleau, Arthur, 510 W. Polk
Roy, Franz, 9140 Commercial av
Runde, Otto, 119 Rlee
Rush, A. Wm., Monadnock blk
Russell, Lewis E., 115 Dearborn
Rusy & Rezney, 112 Clark
Sandegren, Andrew, 164 Dearborn
Saxe, Ira C., 84 La Salle
Schaub, Lewis J., 717 N Campbell av
Scheneck, Rudolph, 157 Michigan av
Schlacks, Henry J., Borden blk
Schmidt, Richard G., 163 Randolph
Schmidt, Hugo, 2020 State
Schmidt, Richard E., Garden & Martin, 172
Washington

*Schock & Swanson, 164 Dearborn
Schoenfeldt, Frank, 1755 W 12th
Schroeder, John M., 99 Randolph
Schroeder, Wm. H., 192 W 22d
Schuberth, Geo. F., 568 Sheffield av
Schultz, Martin, 784 W 21st
Schultz, Wm., 1156 Milwaukee av
Schwitzer, Jos., 56 5th av
Seater, Sinclair M., 105 Washington
Seipp, Edwin A., 172 Washington
Seyforth, Robt. E., Corn Ex. Bank bldg
Shankland, Edw. C., The Rookery
Shannon, James S. (care Roberts & Shaf-
fer Co.), Old Colony bldg

Shattuck, Walter F., 218 La Salle
 Shaw, Howard Van Doren, 161 State
 *Shepley, Rutau & Coolidge, 206 La Salle
 Slerks, Henry, 40 Dearborn
 *Sills, Jos. L., 115 Dearborn
 Smith, Robert S., 185 Dearborn
 Smith, Sidney, 1697 N Sacramento av
 Somers, Elbert S., 4192 Lakewood av
 Sorensen, Chas. F., 660 N Maplewood av
 Spencer, Robt. C., Jr., Steinway Hall
 Speyer, J. & Son, 172 Washington
 Spitzer, Morris, Tacoma bldg
 Stanhope, Leon E., 184 La Salle
 Stebbings, Walter L., Monadnock bldg
 Stern, Isaac S., 585 E 49th
 Steuben, Theo., 1721 N Ashland av
 Stevens, C. Whitney, 109 Randolph
 Stevens, Harry E., 100 Jackson boul
 Stone, John R., 140 Dearborn
 Strandel, Chas. A., 134 Monroe
 *Strippleman, William, 209 State
 Sturm, Meyer J., 84 La Salle
 Sturmfeld, Chas. H., 1239 W 21st
 *Sullivan, Louis H., Auditorium Tower
 Sutcliffe, John, 218 La Salle
 Taggart, John A., 333 62nd
 Tallmage, Thos. E., Security bldg
 Thain, Joseph A., 3152 Prairie av
 Thisslew, Chas., 451 Milwaukee av
 Thomsen, Fred'k W., 46 Seminary av
 *Tilton, John N., 112 Clark
 Tomlinson, Henry W., 17 Van Buren
 *Treat, Samuel A., 279 Dearborn
 Turubull & Jones, Tacoma bldg
 Uffendell, Wm. G., 3648 Lake av
 Van Keuren, Wm. J., 78 La Salle
 Vlehle-Naess, Ivar, 1994 Kenmore av
 Voight, Gustav, 3220 S Canal
 Von Holst, Hermann V., Steinway hall
 Waful, Edw. E., 204 Dearborn
 Walker, Wm. E., 168 Michigan av
 Walter, Wayne M., Unity hldg
 Warren, Wm. Arthur, Steinway hall
 Waterbury, Chas. D., Steinway Hall
 Waterman, Harry H., Continental B'k bldg
 Watson, Vernon S., Security bldg
 Watson & Hazelton, Fisher hldg
 Weary, Chas. A., 155 Washington
 Weber, Alfred P., 172 Wash'n
 Weber, Peter J., Fisher bldg
 Wheeler, Chas. F., 2862 W 46th ct
 Wheelock, Harry B., Schiller bldg
 *Wight, Peter B., 138 Washington
 Wilkowski, Jos. A., 1177 N Leavitt
 Williamson, Robert B., Board of Education,
 Tribune hldg
 Williamson, Wm. G., 153 La Salle
 Wilmanns, August C., 167 Dearborn
 *Wilson, Horatio R. & Co., 218 La Salle
 Wing, Thos. W., 185 Dearborn
 Winslow, Benj. E., Ashland hldg
 Witherspoon, John M., Monadnock blk
 Wittekind, Henry, 4730 N Clark
 Woerner, Adolph, Lincoln & Ashland avs
 Woodyatt Ernest, Ashland hldg
 Worthmann & Steinback, 625 W Chicago av
 Wright, Clark C., 15 Linden Court
 Wright, Harvey, 163 Randolph
 York, John D., 522 N Clark
 Youmans, Wm. A., Bush Temple of Music
 Youngberg, John E., 114 Dearborn
 Zarhell, Iver C., 97 Clark
 Zatterberg, Martin, City Hall
 Zimmermann, Hugo H., 1127 Addison av
 *Zimmerman, W. Carby, 17 Van Buren
 Zippwald, Otto P., 1719 N Ashland av
COLLINSVILLE—Eberhardt, Henry W.
DANVILLE—Garrett, Urias E., 9 W Harrison
 Lewis, Chas. M., Masonic Temple hldg
 Llese, George C., Y. M. C. A. hldg
 Ludwick, George W.
 McCoy, Jno. F., Amer. Bank & Trust bldg
 Skadden, Edw. W., 906 Oak
 Stuebe, Leon F. W.
DECATUR—Brooks, Barkley S.
 McNabb, Wm. O., 403 N Main
 Patterson, Melville G., Fenton hldg
 Rosen, R. O., Powers hldg
DEERFIELD—Flower, Harold
DE KALB—Marston, Louis H.
DIXON—Vall, Morrison H.
EAST ST. LOUIS—Frankel, Albert B., 208
 Collinsville av
 Kennedy, Jno. W., Arcade bldg
 Mueller, B. A., Arcade Bldg.
 Pfeifferherger, Geo. D., Sexton bldg
 Rlester, Frank P., Ins. bldg
EDWARDSVILLE—Pauly, Chas.
ELGIN—Abell, W. Wright, & Ralph Elliott
 Morris, G. E.
ELMHURST—Griffin, Walter B.
EVANSTON—Blake, Edgar O., 620 Davis
 Phillips, Chas. A., 227 Dempster
FOREST PARK—Butar, Adolph G., 521 Ma-
 renco av
FREEPORT—Dustman, Urias M.
GALESBURG—Aldrich, Norman K.
 Beadle, Jno. Grant

GENESE—Okeberg, Jno. V.
GRANITE CITY—Kistner, Theo. C.
 Pauly, Edward C.
JACKSONVILLE—Buckingham, C. W.
 *Pierson, Jas. K. C., 232½ W State
JOLIET—Barnes, John H., 634 Van Buren
 Boehme, Hugo, 101 Ottawa
 Cowell, Herbert, cor Raynor & Gates aves
 Hoen, Rudolph G., Braun-Kiep hldg
 Wallace & Wallace, Wallace hldg
 Webster, Chas. Woods, Cutting bldg
KANKAKEE—Henry, Chas. D., 26 Arcade bldg
KEWANEE—Eckland, Henry, 218 N Tremont
LA GRANGE—Krausch, Walter T.
LA SALLE—Matteson, Victor Andre
LINCOLN—Corwine, W. A., 203 4th
 Deal, Joe Alldert, Oglesby hldg
 Gluzel, Roland F.
 Simpson, John A., 100 Chicago
MACOMB—Fuhr, Jno. H.
 Holmes, Willis B.
MAYWOOD—Meissner, C. L. Henry
METROPOLIS—Houts, Wm. T.
MOLINE—Cervin, Olof Z.
 Drury, Clair F., 517 15th
 Eckerman, Oscar A.
 Whitsitt, H. W.
MORGAN PARK—McMurray, Oscar L., 2222
 Ehuda av
MORTON PARK—Cowles, Wm. D., 5138 Ris-
 ley av
MOUNT MORRIS—Buser, Nathaniel E.
NAUVOO—Nielsen, Carl
OAK PARK—Ellis, Francis M.
 Fiddelke, H. G., 210 W. Lake
 Fyfe, Jas. L., 417 Home av
 Hartigan, Wm. B., 429 N Cuyler av
 Hotchkiss, Roy J.
 Poulson, Geo. F., 643 N Elmwood av
 Roberts, Eben Ezra, 101 Marion
 Stoddard, Edw. B., 224 Marlon
 Thompson, F. D., 111 Marion
 White, Chas. E. Jr., 321 N. Euclid av
 Wright, Frank L., Forest & Chicago aves
OTTAWA—Richardson, Jason F., Jr., 316 Ar-
 mory blk
PALOS PARK—Reichert, Wm. G.
PEKIN—Zimmer, John E.
PEORIA—Baillie, Jno. McLellan, Y. M. C. A.
 Chaffee, Dudley C., 321 Main bldg
 Davis, Geo. H., 411 Perry av
 Emerson, Frank N., 321 Main
 Harris, Alfred W., Dime Savings B'k bldg
 Hewitt, Herbert E., 321 Main
 Hulsebus, B. L., Y. M. C. A. Bldg.
 Johst, Valentine, Johst hldg
 Klefer, Albert, Woolner bldg
 Klein, Fred'k J., Arcade bldg
 Koechlin, Carl, Masonic Temple
 Reeves, Wm. H.
 Shank, Jno. Adam, Observatory bldg
 Whitmeyer, Mark H., Observatory Bldg.
PERU—Wachter, Henry F.
POLO—Ruth, Thos. P.
PONTIAC—Hercules, Jacob W.
 Young, Richard A.
PRINCETON—Alpaugh, Nicholas G.
 Bryant, Jos. P.
QUINCY—Batschy, Jno., Wells hldg
 Behrensmeyer, George P., 530 N Main
 Chatten, Harvey, Wells bldg
 Geise, Martin J., 7th & Hampshire
 Ledebink, Fred C., 32 Schotts bldg
 Wood, Ernest M., Musselman bldg
ROCKFORD—Bradley, Chas. W., Brown bldg
 Carpenter, F. A., Brown bldg
 Manard, Robt. P., Rockford Trust bldg
 Schureman, David S., 220 S Main
ROCK ISLAND—Pruett, Chas. L.
 Staudhar, Geo. P., 318 20th
ROGERS PARK—Melin, Chas. W., 1166 Co-
 lumbia av
SANDWICH—Howison, Charles
SPRINGFIELD—Aschauer, C. J., 502½ E Adams
 *Bullard & Bullard, Unity Bldg.
 *Conway, Wm. H., 104 East Side sq
 Furrow, Edw., I. O. O. F. Bldg.
 Hamilton, Frank H., City Hall
 Hanes, Samuel J., 205 S 6th
 *Helmle, Geo. H., 430 S 5th
 Rinaker, Jno. L., Franklin hldg
 Shinn, O. W., 714 S 5th
STERLING—Blood, Lyle A.
 Van Horne, Phillin T.
STOCKTON—Goodmiller, Preston V.
STREATOR—Allen, Alonzo W.
 Connell, Richard D.
 Foster, Wm. C.
UPPER ALTON—Stelle, Oliver G.
URBANA—Harper, Horner W., 907 W California
 Ricker, N. C., Engineering Hall
 Royer, Jos. W., Flat Iron hldg
 White, Jas. M., Engineering Hall
 Wilkinson, Lawrence E., Engineers' hall
WAUKEGAN—Minnett, Jno. E.
 Worsfold, Ira A., Dodge bldg

INDIANA.

ANDERSON—Duncan, Henry L.
 Meckel, Jno.
BEDFORD—Pritchett, Milton C.
BLOOMINGTON—Nichols, Jno. L. & Son
 Spriggs, Henry
BLUFFTON—Powers, W. H.
BRAZIL—Steevanart, Gustav
COLUMBUS—Dunlap, Elmer E.
CRAWFORDSVILLE—Griffith, Geo. T., 812 W
 Sharpe, W. F. Main
CROWN POINT—Knight, F.
ELKHART—Elwood, A. H.
 Turnock, E. Hill
EVANSVILLE—Hammond, H. B., 516 Main
 Harris & Shophell, Furniture bldg
 *Schlotter, Frank J., Dickman bldg
FORT WAYNE—*Allen, Frank F., Elektron
 Bradley, R. A., Bank bldg bldg
 Griffith & Fair, Bass blk
 King, Jno. F., 121 W. Woodland av
 Loney, P. J., Bass blk
 *Mahurin & Mahurin, Swinney blk
 Meyer, Henry, 108 Calhoun
 Rledel, J. M. E., Schmltz blk
 Snyder, Ralph M., Tri-State Bank
 Weatherhogg, Chas. R., Hamilton Nat'l B'k
 *Wing, John F., Pixley-Long blk bldg
GARY—Cornwell, Fay D.
 Erickson, Herbert
 Gorsuch & Wiklund
 Jewett, Alvert
 Mason, J. W.
GOSHEN—Arthur, James A.
GREENSBURG—*Dille, Edw.
HAMMOND—Bump, E. W.
 Hutton, J. T.
HARTFORD CITY—Brown, J. L.
HUNTINGTON—Mohler, A. D.
INDIANAPOLIS—Albersmeier, Wm. H., Board
 of Trade bldg
 Alexander, J. F. & Son, Lemcke bldg
 Allen, Layten, Lombard blk
 Bacon & Carr, 1220 E. Washington
 Barber, Wm. E., 707 E. 23d.
 Bartel, Samuel G., 730 N Germania av
 Bass, Herbert L. & Co., Indiana Pythian
 Bates, Chas. E., Lemcke bldg bldg
 Bedell, Geo. V., Law bldg
 *Bohlen, D. A. & Son, Majestic hldg
 Bradley, Rob't A., American Central Life
 Bruhaker & Stern, Aetna bldg bldg
 Byfield, Chas. H., Law hldg
 Church, Andrew S., 2329 Adams
 *Daggett, R. P. & Co., Lemcke bldg
 Dark, Stephen C., 210 S. Penn.
 Dunlap, Elmer E., State Life hldg
 Dupont, Henry H., State Life bldg
 Eldridge, Wm. K., Board of Trade hldg
 *Foltz & Parker, Indiana Pythian bldg
 Hastings & Gardner, 152 E. Market
 Hendrickson, H. C., Union Trust hldg
 Hollingsworth, John G., 1033 Udell
 Hunter, Frank B., State Life hldg
 Johnson, Jesse T. & Co., State Life hldg
 McCune, Mervin H., 1405 Woodlawn av
 Martindale-Rigg, Aetna bldg
 Moore, W. Scott & Co., Unity bldg
 Morck, Wm. O., Lomhard hldg
 Morris, Chas. O., 952 W 32d
 Mueller, Chas. G., Talbott blk
 Pierson, Ora C., 230 E Ohio
 Ruhush & Hunter, Amer. Cent. Life hldg
 *Scherer, Chas. G., Indiana Trust bldg
 Staples, Wm. A., Baldwin hldg
 Steele, Brandt T., 142 E Market
 Sturges, Louis, Board of Trade hldg
 Traylor, Marion H., 1928 Park av
 Von Arman, Marshall E., Union Trust bldg
 *Vonnegut & Bohn, Indiana Trust bldg
 *Wallington, Chas. A., 152 E Market
JEFFERSONVILLE—Holzhog, Geo. H. & Bro.
KOKOMO—Bruff, James F.
LAFAYETTE—*Alexander, Jas. F. & Son, 4th
 & Main
 Bonstra, J. A. & Co., Wallace blk
 *Brown, Geo. S., 306 Ferry
LAPORTE—Allen, G. W. & Son
LOGANSPOUT—Cook, Jas. A.
 Craln, Jos. E.
 Horn, Carl J.
MARION—Elder, Hiram
 French, Burt L.
MISHAWAKA—Bruhaker, O. C.
MUNCIE—Keeler, Geo. H.
 Kihele, Cuno
NEW ALBANY—Moosemiller, Paul E.
NEW CASTLE—Taylor, Chas. W.
RICHMOND—*Hasecoeter, John A., Colonial
 bldg
 Kaufman, Wm. S., Kelley & Hutchinson blk
 Yates, Stephen O.
SOUTH BEND—Adelsperger & Teeple, Dean
 bldg
 *Austin, Ennis R., 225 W Washington
 Freyeremuth & Maurer, Warner hldg

Schneider, Walter W., 110 W. Jefferson
Schutt, R. K., Summers bldg
Selby & Van, Dean bldg
Shamblau, N. Roy, 225 W. Washington
Young, E. W., Jefferson bldg
SYRACUSE—Kingsley, W. M.
TERRE HAUTE—Ballentine, J. W., T. H.
Floyd, W. H., 656 Wabash av Trust bldg
Foltz & Parker, Opera House blk
Gault, James C., Rose Dispensary
Padgett, Chas., Odd Fellows' bldg
Scott, Charles E., 656 Wabash av
Sherman, James Merrill, 1504 2d av
Vrydagh, J. G., 705 Ohio
Vrydagh, Robt. T., McKee blk
TIPTON—Porter, S. J.
UNION CITY—Gettlinger, W. H.
VINCENNES—Campbell & Osterhage
Gaddis, John W.
WABASH—Risser, Christian
WARSAW—Bast, W. H.
Vanator, W. S.
WILLIAMSPORT—Fox, John
Lewis, P. W.

IOWA.

AMES—Connell, Richard D.
BOONE—Sweatt, B. J. & Co.
BURLINGTON—Goddard, H. I.
Nelson, C. N.
Washburn, G. H.
CARROLL—Hart, Sanford P.
CEDAR FALLS—Robinson, W. A.
CEDAR RAPIDS—Brown Bros Co., Security
Bank bldg
Dieman & Fiske, Granby blk
Josselyn & Taylor Co., 213 S 3d
Richards, D. W., 217 S 2d
CENTERVILLE—Staley, B. S. Co.
CHARITON—Houghland, O. A.
CHARLES CITY—Campbell, Arthur
CHEROKEE—Stoddard, Chas.
CLINTON—Morrill, John & Son
COUNCIL BLUFFS—Cox, Friederich T.
Jensen Bros. Co.
Liles & Pennell
DAVENPORT—Clausen, F. G. & R. J., Central
Ebeling, Arthur H., 116 W 3d bldg
Hanssen, Gustav A. & D. J. Harfst.
Schmidt bldg
McLane, Cyrus D., McManus bldg
Ross, John W., 212 Brady
Spink, Chas. R., McManus bldg
*Temple, Burrows & McLane, McManus bldg
DECORAH—Bucknell, Wm. S.
DENISON—Barber, Edgar L.
DES MOINES—Barton, Wm. C., Youngerman
bldg

Eastman, C. E. Co., Observatory bldg
Hallett & Rawson, Utica bldg
Liebbe, Nourse & Rasmussen, 724 Walnut
O'Connor, Jno., Youngerman bldg
Proudfoot & Bird, Plym bldg
Sawyer & Watrous, Watrous bldg
Smith, O. O., Youngerman blk
Wetherel & Gage, Youngerman blk
DUBUQUE—Beck, Guldo, 8th & Main
Carkeek, Thos. T., Lincoln bldg
*Heer, F. & Son, 325 8th
Heer, Martin, 13th & Clay
*Spencer, John, Bank & Ins. bldg
ESTHERVILLE—Cox, Jas. S.
Jeffers, A. M.
FORT DODGE—Albright & Bradford
Reely, T. W.
HAMPTON—Boutin, C. W.
INDEPENDENCE—Netcotte & Donnan
IOWA CITY—Carpenter, O. H.
*Wickham, B. A.
KEOKUK—Ratcliffe, H. E.
MARION—White, L. E.
MARSHALLTOWN—Eckman, Chas.
MASON CITY—Bogardus, E. R.
Carr, C. E.
Connor, T. H.
MUSCATINE—Zeldler, H. W.
OSAGE—Stoughton, G. A.
OSKALOOSA—Wetherell, Frank E.
OTTUMWA—Fielder, Frank, 116 E. Main
Kerns, Geo. M., Electric bldg
Koch, Ernst, Hoffmann blk
Throne, H. E., 1229 Castle
STOIX CITY—Beach, Wilfred W., United
Bank bldg
Burkhead, G. W., Iowa bldg
Colby, F. E., Farmers' Loan & Trust bldg
Reinecke & Jenkinson, United Bank
Steele, Wm. I., United Bank bldg
WATERLOO—Borgolte, Fred'k F.
Burkett & Peddicord
Cleveland, M. B.
Ralston, J. G.
Shockley, Clinton P.
WAYLAND—Schwartz, C. K.
WEBSTER CITY—White, J. R.
WHAT CHEER—Palmer, J. N.

KANSAS.

CHANUTE—Fretwell, John
Parsons, Elze
Pratt, J. W.
COFFEYVILLE—Colby, Geo. S.
Henderson, C. N.
EMPORIA—Brinkman, H. W.
Squires, Chas. W.
FORT SCOTT—Huff, Walter S.
GLASCO—Olmstead, J.
HAYS CITY—Wolfe, G. R.
HUTCHINSON—De Pry, D. T.
Mann, A. R.
Nethercot, W. A.
Snyder, Harvey
INDEPENDENCE—Bender, F. N.
Fletcher, F. F.
KANSAS CITY—Bowman, Chas. S., 524 Minn.
Harris, Wm. E., Portsmouth bldg av
Langworthy, F. W., Pennington Hotel bldg
LAWRENCE—Wellman, W. T.
Wellman & Blair
LEAVENWORTH—Feth, Wm. P.
MANHATTAN—Hill, Harry H.
Winter & Walters
NEWTON—Ross, W. L.
OTTAWA—Washburn, Geo. P. & Son
PARSONS—Quinn, B. H.
PITTSBURG—Munn, C. J.
*Seeley, J. H. & Co.
SALINA—Hair & Smith
Wilmarth & Zerbe
TOPEKA—Chandler, Chas. H., Capitol bldg
Gamble, R. L., 909 Kansas av
Holland, J. C. & Son, 734 Kansas av
Lescher, Theo. H., 920 Monroe
Marshall, Joseph, 115 W. 5th
Nielsen, N. P., 48 Crawford
Stanton, Jno. F., Smith bldg
Tuttle, C. B., 1907 Buchanan
Williamson, T. W., 1024 Clay
Wood, L. M., 629 Kansas av
WICHITA—Charles, U. G.
Cochrane, J. F.
Parsons, W. F.
Strengfeld, W. R.
Terry, C. W.

KENTUCKY.

BOWLING GREEN—Fleener, C. M.
Underwood, Robert
COVINGTON—Ashley, E. H., 1053 Scott
Dohrmann, Geo. F., 17 E. 18th
Schofield, Geo. W., 427 Madison av
Walker, Lyman, Farmers & Traders Bank
bldg
CYNTHIANA—Stevens, Joseph R. & Co.
FRANKFORT—Oberwarth, Leo L.
HENDERSON—Trible, E. S.
HOPKINSVILLE—Long, James L.
LEXINGTON—Aldenburg, H. W.
Anderson & Frankel
*Rowe, H. L.
LOUISVILLE—Albus, E. E., Paul Jones bldg
Collins, Val. P., Paul Jones bldg
Coupe & Gray, Equitable bldg
Curjin, C. A., Columbia bldg
Davis, Brinton B., Atherton bldg
Erhart, Fred, 358 4th
Gaffney, J. J., 455 W. Jeff.
Gray & Hawes, Louisville Trust bldg
Hallenberg, Adolph, 303 W. Main
Hillerich, E. W., Todd bldg
Hoffer, Jno., 723 Underhill
Hutchings, J. B., Columbia bldg
Joseph, Alfred S. & Oscar G., Com'l. bldg
Loomis, Arthur, Todd bldg
McDonald & Dodd, Equitable bldg
*Maury, Mason, Board of Trade bldg
Meyer & Brenner, Keller bldg
Murphy, D. X. & Bro., 140 S. 5th
Reuter, O. P., 253 5th
Shryock, C. G., 418 Centre
Smith, Arthur R., Norton bldg
Thomas & Bohne, Keller bldg
Wolters, Henry, Board of Trade bldg
Wischmeyer, Herman, Kenyon bldg
MOUNT STERLING—Williams, E. L.
NEWPORT—Wilson, Louis H., 10 W 4th
Wright, Jas. C., Jr.
NICHOLASVILLE—Askens, Samnel
Horin, E. E.
Murphy, J. H.
PADUCAH—Brainerd, Wm. L.
Lassiter, A. L.
SHELBYVILLE—Gruber, L. H. & Sons
VANCEBURG—Alden, Samnel

LOUISIANA.

BATON ROUGE—Charlton, Chas. H., Jr.
Goodman, B. J.
COVINGTON—Jenkins, Chas. & Jno. E.
JEANERETTE—Lloyd, C. B.

LAFAYETTE—Anderson, B. F.

Mortou, A. E.
Nicholson, W. L.
NEW IBERIA—Phillips, E. W.
NEW ORLEANS—Andry & Bendernagel, 211
Camp

Bringier, Louis A., Hibernia B'k bldg
Broyard, Paul, 915 N Dupre
Brune, Theo., 922 Gravier
Bryan, Andrew J., Hennen bldg
Burton, Hayward L., 137 Carondelet
Collon, Frank & Co., 316 Baronne
Crosby & Henkel, Morris bldg
Dannemann & Charlton (Ltd.), 316 Baronne
Dannis, Fred'k, 137 Carondelet
De Buys, Churchill & Labouisse, Hibernia
Del Isle & Orr, 316 Baronne bldg
Diboll, Owen & Goldstein (Ltd.), 305 Ba-
rroune
Diel, Henry, 251 S. 5th
Drennan, A. W., 211 Camp
Duval, Southron R., 606 Common
Duval, Southron R., N. O. Nat. Bank bldg
Favrot & Livoudals, 839 Gravier
*Fitzner, Wm., 325 Camp
Fulham, Wm. F., 2128 Berlin
Ganter, Louis A., 1831 Palmyra
Geary, James, 513 Carondelet
*Geary, Walter N., Hennen bldg
Graveley, Frank P. & Co., 320 Carondelet
Hay, Alex., 127 Carondelet
Heintz & Simone, 307 Camp
Henry, Jno., Hennen bldg
Johnson, Herbert P., 606 Common
Kaiser, Wm. P., 727 Common
Keenan & Weiss, Hibernia Bank bldg
Koch, Julius, 219 Carondelet
Krumhaar, Wm. B., 127 Carondelet
Lagasse, Paul, 826 9th
Levy, Gordon S., Hennen bldg
Loomis, Arthur, Todd bldg
*McCarthy, Richard, Jr., 305 Baronne
MacDonnell, Francis J., Hennen bldg
Mackenzie & Biggs, 606 Common
Moise, Abram H., 319 Carondelet
Patterson, Ebbin B., 1320 N Rendon
Reynes, E. Mazureau, 127 Carondelet
Roof, H. H., 829 Perdido
Soule, Robert S., Hennen bldg
Spurl, Edward F., 606 Commercial pl
Stone Bros., Hennen bldg
Sully, Thos., Morris bldg
Tetu, Maurice, 1829 Terpsichore
Thompson, Thos. M., 211 Camp
*Toledano & Wogan, 830 Canal
Well, Emile, Hibernia bldg
Williams, C. Milo, Hennen bldg
SHREVEPORT—Allen & George
Armstrong, A. J. & Co.
Bridges, Perry
Glick, E. F.
Kendrick, M. M.
King, Clarence W.
Snyder, John Y.

MAINE.

AUGUSTA—Wing, A. G.
BANGOR—Crowell, C. Parker
Hodgins, Victor
*Mansur, Wilfred E.
Patterson, Fred'k A.
EAR HARBOR—Savage, Fred L.
Stratton, Milton W.
BATH—Frederic, Herbert P.
BRIDGETON—Abbott, Edw.
Proctor, John H.
CASCO—Batty, John
Batty, Joseph
DEXTER—Dexter, H. P.
EASTPORT—Newcomb, E. E.
HOULTON—Chadwick, John J.
KENNERBUNK—Barry, Wm. E.
LEWISTON—Coombs & Gibbs
LISBON FALLS—White, E. E.
MADISON—Snow & Humphrey
NORTHEAST—Coudage, Chas. A.
PITTSFIELD—Hersey, Preston
PORTLAND—Burnham, Geo., 120 Exchange
Cunningham, J. J., 390 Congress
Fassett, F. H. & E. F., 93 Exchange
Lane, Calvin S., 536 Congress
Libby, C. Edwin, 11 Exchange
Pease, Austin W., 11 Exchange
*Stevens, John Calvin, Oxford bldg
Stevens, Jno. Howard, Oxford bldg
Tompson, Fred'k A., Y. M. C. A. bldg
RUMFORD FALLS—Raynes, W. O.
TREMONT—Clark, Eben B.

MARYLAND.

BALTIMORE—Aiken, Herbert C., 213 N. Cal-
vert
Anderson, Charles M., 324 N Charles
Anderson, Clarence E., Law bldg
Archer & Allen, Central Sav. Bank bldg
Baldwin & Pennington, Professional bldg
Beall, Fred. E., 213 St. Paul

Beecher, Wm. Gordon, Calvert bldg
 *Brauns, Henry, Professional bldg
 Carroll, T. George, Continental bldg
 *Cassell, Chas. E. & Son, Law bldg
 Crisp, Herbert G., Calvert bldg
 Davis, Frank E. & Henry R., 220 St. Paul
 Eckstine, J. Edmund, 20 E Lex
 Ellcott & Emmart, Union Trust bldg
 Emmart, Paul, 210 W Fayette
 Emory, Wm. H., Jr., Professional bldg
 Finley, Henry J., Hoffman bldg
 Flournoy, Park P., Jr., 21 E Mt Vernon pl
 Forrest, A. Lowther, 417 St. Paul
 Forsythe, John R., 232 St. Paul
 Fowler, Lawrence H., 347 N. Charles
 Frank & Kavanagh, Equitable bldg
 Frederick, Geo. A., The Shirley
 Freund, John, 210 E Lexington
 Fritz, Clyde M., 11 E Pleasant
 Gerwig, Jacob F., 210 E Lex
 Ghequeler, T. Butler, 227 St. Paul
 Gleske, Walter M., Equitable bldg
 Glidden, Edward H., 16 St. Paul
 *Gott, Jackson C., Hotel Rennert
 Hampson, Walter M., 207 St. Paul
 Haskell & Barnes, 301 N Charles
 Jones, Whitney W., 211 N. Calvert
 *Keunedy, T. C., 211 N. Calvert
 Laferty, J. Edw., 11 Pleasant
 Leach & Cookman, 323 N. Charles
 Levi, Louis, American bldg
 Mackenzie, G. N., Govans Bldg.
 McLaughlin Bros., 915 Bolton
 Margruder, Hugh S., 19 W. Saratoga
 Mason, Alfred, 746 W. Balto
 Minor, W. L., 20 Clay
 Morris, Geo. R., Equitable Bldg.
 Mottu & Whyte, Professional bldg
 Nussear, J. S., Jr., Professional bldg
 Owens & Sisco, Continental bldg
 Parker, Thomas & Rice, Union Trust Bldg.
 Potter, Abraham S., 105 Augusta av
 Sill, Howard, 11 E. Pleasant
 Simonson & Pietsch, American bldg
 Smith, Wilson Levering, Law bldg
 Sperry, Joseph E., Calvert bldg
 Torrey, Francis E., Wilson Bldg.
 Turnbull, Bayard, 12 E. Lexington
 Tuzo, Paul B., 11 Pleasant
 Wilson, J. A., Law bldg
 Worthington, Geo., Law Bldg.
 *Wyatt & Nolting, Keyser bldg
 Zink, Carl H., Law bldg
CUMBERLAND—Butler, Wright
 Sansbury, Geo. F.
HAGERSTOWN—Hunter, I. A.
 Mack & Kountze
 Rose, Louis
PIKESVILLE—Watts, Albert S.
POCOMOKE CITY—Stevenson, R. M.
ST. MICHAELS—Dodson, H. C.
SALISBURY—Mitchell, T. C.
WESTMINSTER—Case, Paul

MASSACHUSETTS.

ADAMS—Fleming, J. M.
ATHOL—Boyden, Mason A.
ATTLEBORO—Higgins, O. M.
 Hyde, Karl H.
AYER—Stacy, D. E.
BEVERLY—Grush, Chas. E.
 Harmon, W. H.
 Swan, George
BOSTON—Adams, Rayne, 6 Beacon
 Adden & Parker, 12 Bosworth
 Alden, Henry B., 15 Exchange
 Allen & Collins, 6 Beacon
 Ames, John W., 15 Exchange
 *Andrews, Jacques & Rantoul, State Mutual
 Andrews, W. H., 101 Tremont Life
 Appleton, W. Cornell, 53 State
 *Atherton, Walter, 13 Exchange
 Atkinson, Wm., 31 Beacon
 Atwood, Harrison H., 61 Alban
 *Austin, Chas. D., 128 Neponset av, Dor
 Austin, Wm. D., 50 Bromfield
 Bacon, Lewis H., 27 School
 Bacon, Willard M., 27 Kilby
 Baker, Chas. M., 6 Hancock av
 Baker, Moses E., 31 Beacon
 Barker, Edward T., 5 Park sq
 Bartlett, J. Gardiner, 9 Ware av
 *Barton, Geo. E., Tremont bldg
 Bateman, C. J., 279 Washington
 Beal, Columbia R., Tremont bldg
 Beal, J. William, 62 Summer
 Bellows, Robt. P., 8 Beacon
 Benton, E. R., Equitable bldg
 Berry, J. Lawrence, 6 Beacon
 Besarick, John H., 185 Summer
 Besarick, Wm. H., 13 School
 Bigelow, Henry F., 3 Hamilton pl
 Blinney, Arthur, 70 Kilby
 *Blackall, C. H., 20 Beacon
 Blackie, Edwin K., 46 Cornhill

Blevins, Albert H., 9 Park
 Blinu, Alfred M., 89 State
 Bodwell, Albert E., 27 School
 Bond, Newton C., 141 Milk
 *Boston Society of Architects, 2 Ashburton pl
 Bosworth, Geo. F., 8 Exchange pl
 *Bourne, Frank A., 70 Kilby
 Bowditch, Arthur H., 7 Water
 Boyden, Ernest N., 85 Water
 Brainerd & Leeds, 89 Franklin
 Brigham, Chas. A., 8 Exchange pl
 Brigham, Coveney & Bisbee, 184 Boylston
 Brown, Chas. A., 67 Nelson Dor
 Brown, Frank C., 9 Park
 *Brown, Samuel J., 164 Federal
 Brown, Willard D., 15 Beacon
 Capen, G. Walter, 179 Summer
 Carlson, Harry J., 22 Congress
 Chandler, H. S., 31 Beacon
 *Chandler, Jos. Everett, 31 Beacon
 Chapman, E. R. B., 280 Boylston
 *Chapman & Frazer, 8 Exchange pl
 Chase, Wm. C., 95 Beacon
 Chickering & O'Connell, 18 Boylston
 Clark, Eugene L., 50 Bromfield
 Clark, Theodore M., 15 Beacon
 Clark & Russell, 128 A, Tremont
 Clarke, Wm. E., 15 Court sq
 Cleveland, Frank E., 15 Beacon
 Clough & Wardner, 46 Cornhill
 Cobb, Albert W., 34 Oliver
 *Codman & Despradelle, 31 Beacon
 Cogswell, Chas. N., Old South bldg
 *Coit, Robert, 85 Water
 Colby, H. W., 46 Cornhill
 Collett, Wm. C., 50 Bromfield
 Connor, G. Prescott, 5 Marlbow
 *Coolidge & Carlson, 22 Congress
 Cooper & Bailey, 87 Franklin
 Couch, Lester S., 70 Kilby
 Cox, Allen H., 6 Hancock av
 Craig, John J., 35 Congress
 *Cram, Goodhue & Ferguson, 15 Beacon
 Crosby, G. Erde, 76 Studio bldg
 Cummings, C. K., 144 Congress
 Cummings, Walter C., 27 School
 Cutter, Olin W., 683 Atlantic av
 Dana, Edw. P., 112 Water
 *Darrow, Alfred L., 113 Devonshire
 Davidson, H. E., 6 Beacon
 Davis, Wm. E. Jr., 12 Bosworth
 Dennett, Hartley, 4 Joy
 Derby & Robinson, 20 Beacon
 Desmond, G. Henry, 15 Beacon
 Destremps, Louis & Son, 205 Congress
 Dillaby, Frank H., 101 Tremont
 Dinsmoor, Wm. W., 28 School
 Dudley, Wm. N., 46 Cornhill
 Dunham, C. B., 6 Beacon
 Dykeman, W. A., 27 School
 *Emerson, Wm. R., 120 Tremont
 Eskridge, Frank T., 17 Milk
 Faxou, John Lyman, 3 Hamilton pl
 *Fernald, Geo. P., 70 Kilby
 *Finneran, Geo., Old Court House
 Fisher, Richard A., 8 Beacon
 Fowler, J. Chandler, 34 School
 Fowler, J. Ohandler, 161 Devonshire
 Fowler, J. Sumner, 19 Milk
 *Fox, John A., 120 Tremont
 *Fox & Gale, 3 Park
 Frye, Jno. G., 280 Boylston
 Fuller, Geo. A., 18 Tremont
 *Gay & Proctor, 21 Bromfield
 Gilmore, G. William, 7 Water
 *Godfrey, Chester N., 15 Beacon
 Gould, Aaron H., 17 Milk
 Gowing, Frederick H., 18 Tremont
 Graham, Edward T. P., 20 Beacon
 Gray, Arthur F. (Mill), 53 State
 Greco, Arthur F., 8 Beacon
 *Greene, Jos. T., 12 Pearl
 Grenleaf, L. C., 101 Tremont
 Griffin, Tristram, 114 State
 Halden, John C., 85 Water
 Hall, Albert G., 46 Cornhill
 Hamilton, Bradford, 163 Oliver
 Harding, Wm. E., 84 Greenwood
 *Hartwell, Richardson & Driver, 62 Devon- shire
 Hasty, John A., 46 Cornhill
 *Hendersou, Walter P., 144 Congress
 Hettinger, C. F. & Co., 1140 Columbus av
 *Higgins, Geo. H., 110 State
 *Hill, Warren C., 93 Federal
 Hinds, Fred S. (Mill, etc.), 19 Milk
 Howe, Geo. B., 15 Beacon
 Howe, Lois L., 717 Tremont bldg
 Hoxie, Edw. E., 420 Boylston
 Hoyt, Edw. H., 220 Devonshire
 Hughes, T. R., 112 Water
 Hunt, Wm. H. & Co., 46 Cornhill
 Hurd & Gore, 8 Beacon
 Hutchins, Franklin H., 110 State
 Hutchison, J. G., 101 Tremont
 *Ingraham, G. H., 2 A Park
 *Jackson, Allen W., 6 Hancock av

Jackson, Louis E., 6 Hancock av
 Jackson, Robt. F., 6 Beacon
 *Jacques, Herbert, 50 Congress
 James, Thos. M., 15 Ashburton pl
 *Jenney, Alex. S., 50 Bromfield
 *Jones, I. Howland, 50 Congress
 Kalman, Max M., 42 Court
 *Kahnmeier, John, 6 Beacon
 *Kelley, James T., 57 Mt. Vernon
 Kelley, Robt. B., 110 State
 Kelley, Samuel Dudley, 209 Wash'n
 Kelly, John W., 5 Fort av
 *Kendall, Frank A., 53 State
 *Kendall, Taylor & Co., 93 Federal
 Keyes, Henry F., 116 Devonshire
 *Kiessling, Calvin, 8 Beacon
 Kiessling, Homer, 129 Metropolitan av
 *Kilham & Hopkins, 9 Park
 Kimball, Herbert S., 46 Cornhill
 Lavalley, John, 7 Water
 Lawrence, Amos A., 3 Hamilton pl
 *Le Boutillier, Addison B., 8 Beacon
 *Lee, James S., 6 Beacon
 *Lewis, Edwin J., Jr., 9 Park
 Lewis, G. Wilton, 84 School
 Lewis, Wm. Whitney, 15 Exchange
 *Little, J. Lovell, Jr., 15 Beacon
 *Little & Browne, 70 Kilby
 Lockwood, Greene & Co., 93 Federal
 *Longfellow, A. W., Tremont bldg
 *Longfellow, R. K., Tremont bldg
 *Loring & Phipps, 53 State
 *Loud, Joseph Prince, 85 Water
 *Lowell, Guy, Tremont bldg
 Luippold, Jacob, 89 Mozart
 McClintock, John T., 15 Exchange
 McFarland, C. T., 46 Cornhill
 McFarland & Colby, 48 Cornhill
 McInty, Wm. H., 101 Tremont
 McLaughlin, Jas. E., 683 Atlantic av
 McLean, Henry, Tremont bldg
 McLean & Wright, 110 Tremont
 Maggi, Alfred, 7 North sq
 *Maginnis & Walsh, 100 Boylston
 Mahoney, Frank W., 6 Beacon
 Maynard, E. W., 226 Tremont
 *Mead, Samuel W., 15 Beacon
 Moffette, George, Jr., 45 Milk
 Moore, Geo. A., 70 Kilby
 *Morrison, Wm. L., 70 Kilby
 Morse, Edw. P., 258 Washington
 *Morton, H. W., 22 Congress
 *Mucachy, James, 683 Atlantic av
 Murray, John F., 27 School
 Murray, Leon B., 46 Cornhill
 Murray & Hutchinson, 101 Tremont
 Nevin, Chas. K. B., 6 Beacon
 *Newhall & Blevins, 9 Park
 *Newton, Geo. F., 6 Beacon
 Nichols, Edward, 70 Kilby
 Noble, Clinton, 52 Kilby
 Norcross, F. A., 46 Cornhill
 Norris, F. Edgar, Ford bldg
 Nourse, Henry M., 100 Boylston
 O'Grady, Thomas, 149 Mt. Vernon, W R
 Oliver, Edw. H., 6 Beacon
 Orr, Hugh, 20 Beacon
 Page, W. B., Old South bldg
 Park & Keudall, 8 Beacon
 *Parker, Thomas & Rice, 110 State
 Parker, Winthrop D., 12 Bosworth
 *Parsons, G. E., 93 Federal
 *Patch, Chas. E., 52 Kilby
 *Peabody & Stearns, 53 State
 Pearce & Quiner, 15 Beacon
 *Perkins, C. B., Ford bldg
 Perkins, Harland A., 194 Boylston
 *Phillips, Henry A., 120 Tremont
 Phipps, Sanford, 53 State
 Pinkham, A. B., 2604 Washington Box
 Pope, Fred, 622 Tremont bldg
 Powell, Frances G., 117 Wash'n Dor
 Power, Richard W., Old Court House
 Prescott & Sidebottom, 113 Devonshire
 Preston, Henry J., 112 Water
 *Preston, Wm. Gibbons, 6 Beacon
 *Purdon, James, 8 Beacon
 Putnam, Eliot T., 31 Beacon
 *Putnam, John Pickering, 535 Beacon
 Putnam & Cox, 6 Hancock av
 Quigley, Wm. B., 205 Fauell
 Rantln, Samuel & Son, 1117 Columbus av
 Rantoul, W. G., 6 Beacon
 Reed, E. L., 220 Devonshire
 Reid & McAlpine, 110 Tremont
 Rice, L. Fredk., 1147 Old South
 *Richards, Wm. P., 112 Water
 Richardson, A. G., 9 Cornhill
 Ripley, Herbert G., 8 Beacon
 Ritchie, Jas. H., 110 State
 Rowe & Keyes, 161 Devonshire
 Russell, C. A. & F. N., 54 Warren, Rox
 Russell, Jno. W., 128 Tremont
 Ryan, Ida Annah, Tremont bldg
 Safford, Morton D., 259 Summer
 *Sargent, T. M., 172 Tremont

*Sawyer, Ralph E., 31 Beacon
 *Schweinfurth, J. A., 35 Congress
 *Sears, W. T., 70 Kilby
 *Shattuck, Geo. C., Ames bldg
 Shaw, Thos. M., 15 Beacon
 Sheehan, T. Edw., 945 Tremont bldg
 *Shepley, Rntan & Coolidge, 122 Ames bldg
 Silloway, T. W., 10 Tremont
 Simonds, F. P., 7 Water
 *Smith, F. Patterson, Equitable bldg
 *Smith, Geo. L., 70 Kilby
 Smith, Jno. J., Old South bldg
 Smith, O. F., 70 Kilby
 Smith, Wilfred H., 110 Templeton
 Snow, E. A., 8 Exchange pl
 *Somes & Parsons, 101 Tremont
 Southworth, Hy. M., Board of Trade bldg
 Spofford, Jno. C., 50 Bromfield
 Spring, Russell, 2-A Park
 Stebbins & Watkins, 42 Chauncey
 Stephenson, H. M., 100 Boylston
 Stevens, Edw. F., 93 Federal
 *Stickney & Austin, 50 Bromfield
 Stratton, E. B., 16 State
 *Sturgis, R. Clipston, 120 Boylston
 Sullivan, Matthew, 100 Boylston
 Sylvester, Edmund Q., 31 Beacon
 Taylor, W. Hart, 50 Bromfield
 Thayer, O. A., 89 Franklin
 Thompson, S. Bayard, 15 School
 *Tilden, Geo. T., Old South bldg
 Tirrill, Edwin F., 15 Exchange
 Tobey, S. Edwin, 110 Summer
 Turner, Alfred C., 683 Atlantic av
 Underwood, H. T., 46 Cornhill
 *Untersee, F. Joseph, 49 Federal
 *Vanghan, Henry, 29 Pemberton sq
 Vinal, Arthur H., 19 Milk
 Vining, Jno F., 93 Federal
 *Wakefield, F. Manton, 9 Park
 *Wales, Geo. C., 15 Beacon
 Walker, Ambrose W., 9 Cornhill
 *Walker, Chas. H., 15 Beacon
 Ward, Stephen S., 153 Stanwood Dor
 Warren, Clinton J., 7 Water
 Warren, Lyman O., 112 Academy Hill rd
 Warren & Gerrish, Exchange bldg
 *Warren & Smith, Equitable bldg
 Watson, Robert A., 38 Hillside
 Weaver, Arthur N., Old South bldg
 Weissbein, Louis, 40 State
 West, Albert E., 110 State
 *Wetherell, Geo. H., 9 Park
 Wheelwright, A. W., Hotel Victoria
 *Wheelwright & Haven, 220 Devonshire
 Wilson, Edward I., 101 Tremont
 *Winslow, Bigelow & Wadsworth, 3 Ham-
 ilton pl

Woodbury, Daniel H., 53 State
 Wright, Alonzo D., 40 State
 Wright, A. H., 110 Tremont
 Wright, Jas Hayden, S Beacon

BRIDGEWATER—Dow, R. N.

BROCKTON—Barlow, W. F., Jr.

Ellis, J. Lewis
 Howard, Waldo V.
 Irving, David
 Mitchell, Clarence A.
 Olson, Chas. T.

Westwood, John

BROOKLINE—Freeman, Harry S., 24 Littell rd

CAMBRIDGE—Bartlett, C. H., 689 Mass. av

Chamberlin, W. E., 27 Clinton
 Douglas, Nathan, 5 Lee
 McClare, C. Herbert, 649 Mass. av
 Tyler, G. H. & Co., 689 Mass. av

CAMBRIDGEPORT—(See Cambridge)

CANTON—Capen, G. W.

CLINTON—Thissell's, Joshua Sou

COHASSET—See Boston

DALTON—Turner, W. L.

DANVERS—Amend, Albert G.

EVERETT—Wood, Geo. H.

FAIRHAVEN—Bisbee, Henry V.

FALL RIVER—Corbett, Edw. M., 70 Bedford

Darling, J. M., 56 N. Main
 Destremps, Louis G. & Son, 56 N. Main
 Marble, Chas. A., 367 Robeson
 Marvell, E. I., 57 N. Main

FITCHBURG—Francis, Henry M. & Sons, 387

GARDNER—Boutelle, Cyrus F.

GLOUCESTER—Phillips, Ezra L.

GREAT BARRINGTON—Ambach, Geo. A. Co.

GREENFIELD—Drew, M. R.

GROTON—Park, Lawrence

HAVERHILL—Damon, C. Willis

Evans, Robt. R.

Perkins & Bancroft

HOLYOKE—Aldermau, Geo. P. B. & Co.

Chase, R. S., 225 High

Clough, J. A., 281 Hampden

Ellsworth & Howes, 365 Dwight

Howes, W. J., 235 High

Reid, Wm. B., 280 High

HOPKINTON—Phipps, Sanford

HYDE PARK—Higgins, O. M.

Suck, Adolph

LAKEVILLE—Anderson, W. L.

LAWRENCE—Adams, Geo. G., 288 Essex

Allen, J. E., 283 Essex

Ashton, John, 477 Essex

Cullinane, Richard, 288 Essex

Kimball, W. A., 114 Howard

Knapp, J. G., 288 Essex

Regau, Wm. P., Essex Savings Bank Bldg.

Smith, Horace H. (mill), Ray State Bldg.

LEE—Moul, H. S.

LEOMINSTER—Davis, F. L.

Page, Leroy J.

Stacy, Harry H.

LITTLETON—Woodbury, D. H.

LOWELL—Clark, Edw. R., 295 Central

Davis, Millard F., Hildreth Bldg.

Floyd, Warren L., 18 Shattuck

Gardner, Everett M., 198 Holyrood av

Gilbert, Perley F., 53 Central

Graves, Harry Prescott, 40 Middlesex

Roach, Jos. S., 40 Middlesex

Stickney, Austin & Rourke, Hildreth bldg

LYNN—Burk, Michael F., 324 Union

Davidson, B. F., 7 Bloomfield

Earp, Edwin, Jr., 333 Union

Rogers, Hamilton E., 25 Exchange

Rogers, Henry W., 25 Exchange

Sanborn, Dana A., 38 Exchange

Varney, Penn., 25 Exchange

Wheeler & Betton, 59 Exchange

MALDEN—See Boston

MARLBORO—Bigelow, James F.

MELROSE—Dow, Lewis, A.

METHUEN—Barker, Morris

MILFORD—Collins, Walter L.

Cook, Rob't Allen

Hughes, Frank M.

NEW BEDFORD—Bullard, E. G., O. F. bldg

Destremps, Lewis E., Masonic bldg

Hammond, C. & Son, 179 N Water

Smith, Nat. C., Merchants Bank bldg

Williams, John, 77 Merrimack

NEWBURYPORT—Adams, R. G.

Bailey, John E.

Knight, Carl M.

NEWTON—Fisher, Gurdon R., 263 Lave av.

Gay, Jos. B., 43 Bracebridge rd. N C

NORTH ADAMS—Barlow, Edwin T.

NORTHAMPTON—Pratt, W. F.

Putnam, Roswell, F.

PITTSFIELD—Harding & Seaver, 7 North

Haynes, Geo. E., 311 North

McLaughlin & Siebert, North st

Vance, Jos. M., 24 North

*Wilson, H. Neill, 24 North

PLYMOUTH—Goddard, Fred A.

READING—Davis, Chas.

SALEM—Balcumb, Edwin B., 228 Sussex

Bickford, John H., 34 Buffum

Dennis, Wm. D., 210 Essex

Fanning, Geo. H., 209 Essex

Giroux, Jos., 42 Harbor

Rantoul, Wm. G., 8 Chestnut

SOMERVILLE—Buckley, Elmer, 47 Rogers av

SOUTHBIDGE—Clemence, G. H.

SOUTH FRAMINGHAM—Barnes, Chas. E.

SPRINGFIELD—Donahue, J. W., Walker bldg

Foster, John W., 118 Allen

Gardner, E. C. & G. C., 33 Lyman

Green, Sam'l M. (Inc.), 318 Main

*Kirkham & Parlett, 25 Harrison av

Le Vere, C. Fay, Long Meadow

Pyne, Geo. R., 31 Elm

Seabury, B. Hammett, Besse bldg

Taylor, G. Wood, 425 Main

Tinker, O. A., 21 Elm

Wozny, Bruno, 375 Main

STONEHAM—Douglass, Harvey D.

STOUGHTON—Marston, I. Bertram

SWAMPSCOTT—Burgess, Chas. V.

TAUNTON—Park, Walter L.

Smith, Gustavus L.

WABAN—Bacon, Lewis

WAKEFIELD—Perkins, Harland A., 10 Pearl

WALTHAM—Strout, Geo. E., 39 Flske

WAYLAND—Cooper, Frank T.

WELLESLEY HILLS—Stevens, Chas. F.

WESTFIELD—Holton, Augustus W.

WESTON—Jenny, Alex. S.

WEYMOUTH—Vining, Jno. F.

WORCESTER—Carlson, Edwin, 34 Jefferson

Chapin, Edwin T., 340 Main

*Clemence, Geo. H., 405 Main

*Cutting, Carleton & Cutting, 44 Front

*Earle, Stephen C., 339 Main

Fisher, Clellan Waldo, 340 Main

Fitzgerald, Edward P., 340 Main

*Frost, Briggs & Chamberlain, 390 Main

*Fuller & Delano Co., 452 Main

Harrington, Augustus J., 71 Exchange

Harvey, Wm. H., 311 Main

Kingston, John P., 518 Main

Lebeau, Francois A., 26 Vernon

*Lincoln, Chas. H., 6 Park av

Nault, Onesime E., 8 Wall

Newton, B. S., 1125 Pleasant

Topanelian, Edw., 340 Main

Tribe, Geo. T., 306 Main

MICHIGAN.

ADRIAN—Matthes, C. F. & Son

ALMA—Chase, J. G.

Wood, E. M.

ANN ARBOR—Parke, Jullus L.

Pipp, Herman

†Sauer, C. A. & Co.

Scott, Geo. Henning blk

Stanton, S. Mc.

Zells, L. F.

ARMADA—Dickens, Chas. B.

BATTLE CREEK—Arnold, E. W.

Carney, Manrice P.

Halladay, Wm., H.

Murray, Jay H.

Ordway, A. D.

BAY CITY—Carpenter, F. A.

*Clark & Munger

Floeter, P. C.

Pratt & Koeppe

BENTON HARBOR—McKellar, J. D.

BLISSFIELD—Dickinson, D. E.

BRIGHTON—Curry, L. M.

CALUMET—Campbell, Duncan

Marnell, P. H.

CARSON CITY—Heaton, H. G.

COMMERCE—Darling, Thomas

DELAIR—Kinnell, Joseph

DETROIT—Allen & Hill, Detroit Gas Co. bldg

Barcroft, Fred'k T., Penobscot bldg

Barnes, Chas. F. J., Tolsma bldg

Baxter & Odell, Hammond bldg

Bennett, Clarence H., 126 B'way

Bloquelle, Hugo, 163 Rivard

Braun, Geo. H., 220 Labrosse

Butterfield, Wells D., Stevens bldg

Carleton, Frank E., Home Bank bldg

Chamberlin, Harry W., Palmer bldg

Clements, Hugh B., Tolsma bldg

Claus, John S., 630 Campbell av

Coquard, Leon, 169 First

Coughlan, John W., 715 Champlain

Crittenden & Kottling, Ford bldg

Darlin, H. J., Majestic bldg

Dederichs, Peter, Chamber of Commerce bldg

Dillon, Wm. H., Wayne County B'k bldg

Donaldson & Meier, Penobscot bldg

Falkinburg & Miller, Goebel bldg

French, Albert E., Tolsma blk

Gies, Rowland C., Wayne Co. Bank bldg

Graves, Geo. Wm., Rowland bldg

Gregory, E. W., cor. Grammond & Wood av

Harley & Atcheson Bank Chambers

Hill, W. Reed, Moffat bldg

Hunter, Wm. E. N., Cham. of Com. bldg

Ingraham, Geo. H., Penobscot bldg

Joy, Wm. S. & Co., Ferguson bldg

Kahn, Albert, Owen bldg

Kamper, Louis, Fine Arts bldg

Kastler, Jos. G. & Co., Chamber of Com-

merce bldg

Kuehne, A. G., Walker blk

La Verne, Andrew J., 346 Penna av

*Malcolmson, Higginbotham & Clement, Mof-

masin, Geo. D., 80 Griswold fat bldg

Mildner & Eisen, Hammond bldg

Miller, John Lawson, Goebel bldg

Mills, Joe. E., Washington Arcade

Mueller, Gustave A., Ferguson bldg

Myers, E. E., 732 2d av

Myers, G. W., 210 Bethume av

Nettleton & Weaver, Penobscot bldg

Oberson, Sam'l G., 322 Sidney av

Oglesby, Thos. P., 1059 Concord av

Oldfield, G. C., Majestic bldg

Phillips, Andrew, 842 Monroe av

Pollmar & Rones, Cleland blk

Pottle, Geo. V., Detroit Gas Co. bldg

*Raseman, R. E., Penobscot bldg

Rice, Zachariah, 57 Fort, W

Rill, Harry J., 54 Buhl blk

*Rogers & Macfarlane, Penobscot bldg

Scott, John & Co., Ford bldg

Shefferly, F. Jos., 428 Monroe av

Shiels & Allister, 1719 Mich. av

Smith, Sheldon O., Home B'k bldg

Smith, Hinchman & Grylls, Wash'n Arcade

Daverman, J. H. & Son, Porter blk
Hopkins, F. F., 628 Cherry
*Osgood & Osgood, Widdicomb bldg
*Robinson & Campau, Houseman blk
Stone, G. L., 531 Widdicomb bldg
Vierhelig, C. G., Houseman bldg
Williamson & Crow, The Gilbert
HANCOCK—Liebert, H. S.
HARBOR SPRINGS—Mead, Earl H.
HERSEY—Goersman, B.
HILLSDALE—Baer, E. C.
HOLLAND—Daverman, J. H. & Son
Price, James
IONIA—Waterbury, Orry
Wright, H. G.
IRON MOUNTAIN—Lemieux, Jos.
JACKSON—Allen, Claire, Dwight bldg
Field, L. H., Jr.
IRON MOUNTAIN—Lemieux, Jos.
JACKSON—Allen, Claire, Dwight bldg
Field, L. H., Jr.
KALAMAZOO—Albertsoan, Dan J. (Mill)
Fairchild, Chas. A.
Gallup, Robert M.
Harris, G. H.
Le Roy, R. A.
Locey, J. D.
Rose, Albert E.
Van Volkenburg, F. D.
Worthington, A. M.
LANSING—*Bowd, E. A.
Churchill, Judson N.
Moon, D. B.
White & Butterworth
LAURIUM—Nystrom, C. E.
LUDINGTON—Boerner, Chas.
MAPLE RAPIDS—Hewitt, R. H.
MARQUETTE—*Charlton & Kueuzil
Gregory, H. H.
MOUNT CLEMENS—Van Damme, T.
NILES—Tillotson, W. I.
OWOSSO—Edwards, G. M. & Co.
PAW PAW—Hathaway, A. A. & Co.
PONTIAC—Flsher Bros.
Prall, Edw. R.
PORT HURON—Erb, Isaac, White, bldg
Harvey, Geo. L.
Kaumier, J. C. & Co.
ST. JOSEPH—Schwerdt, J. C.
SAGINAW—Boerget, B. Franklin, Heaveenrich
Bude Volusin, 733 S. Baum bldg
Cooper, W. T. & Son, 805 Hayden
Cowles, Clarence L., Chase blk
Hollister, F. W., Merrill bldg
SAULT SAINT MARIE—De Mar, Edward
TRAVERSE CITY—Moore, F. E.
Petersen, Jens. C.
WYANDOTTE—Harding, E. J., Bank bldg

MINNESOTA.

AUSTIN—Hayes, P. J.
Keefe, W. F.
CAMBRIDGE—Liud, Jos.
CROOKSTOWN—Strassburger, E. H.
DULUTH—Bray & Nystrom, Palladio bldg
de Ward, J. R., Torrey bldg
German, S. G., American Ex. Bank bldg
Hunt, W. A., Lonsdale bldg
Kelly & Lignell, Lonsdale bldg
Olson & Magney, Sellwood bldg
Pneke, A. W., Lyceum bldg
Radcliffe & Price, Palladio bldg
†Terryberry, Austin, Palladio bldg
Wagenstein, J. J., 401 Providence bldg
Young, Frank L. Co., Palladio bldg
FERGUS FALLS—Wright, V. A.
LAKE CITY—Alexander, E.
LIVERNE—Green, W. E. E.
MANKATO—Gerlach, H. C.
Pass, Geo.
Schippel, Albert
MARSHALL—Fulton, H. P.
MINNEAPOLIS—Anderson, Fred., 2810 Bryant, S
Bell, C. E., Tyne & Chapman, Northwest-
ern bldg
Bertrand & Chamberlin, Bank of Com. bldg
Blx, Anthony J., Temple Court
Boehme & Cordella, Kasota bldg
Carter, Harry G., 630 E 15th
Chapman, Cecil Bayless, N. Y. Life bldg
Clausen, Arthur C., Lumber Exch.
Corser, Frederick G., N. Y. Life bldg
Dorr, A. L., Lumber Exchange
Downs & Eads, N. Y. Life bldg
*Dunneil, Warren B., 2408 Aldrich av. S.
Haley, E. C., Northwestern bldg
†Halladen, Paul O., Guarantee Loan bldg
Hewitt, E. H., 716 4th av. S
Jager & Stravs, Security Bank bldg
Jones, Harry W., 916 Lumber Exchange
Kees & Colburn, Donladson bldg
Keith Co., 1722 Hennepin av
Kennedy, Ernest, Boston bldg
Kenyon, Wm. M., Metropolitan Life bldg

Kinney & Holden, Kasota bldg
Lamoreaux, L. A., Lumber Exchange
Lindstrom & Almers, Auditorium bldg
Long & Long, 830 Hennepin av
Marshall, R. E., 1201 Hennepin av
Orff, F. D., 613-15 Lumber Exchange
Parsons, W. R. Son & Co., Phoenix bldg
Purcell & Feick, N. Y. Life bldg
Russell Co., The Century bldg
Saxton, Glenn L., Security bldg
Sedgwick, C. S., Lumber Exchange
Stebbins, E. S., Masonic Temple
Stone, Jacob Jr., Security Bank bldg
Turner, C. A. P., The Phoenix
Westphal, O. K., Northwestern bldg
*Whitney, Wm. Channing, Loan & Trust bldg
Wilkinson, W. A., Security Bank bldg
Wyckoff, W. C., 517 1st av. S
NEW ULM—*Amme, Hermann
Berndt, Julius
Heers, C. A.
RED WING—Longcor, Wm. J.
ROCHESTER—Jonson, J. G.
ST. CLOUD—Haas, S. H.
Hussey & Bergman, 707 7th av
ST. PAUL—Bassford, E. P. & C. A., Gilfillan
Buechner & Orth, Manhattan bldg blk
Denson, Jas F., Ger. Life bldg
Donohue, E. J., Gilfillan blk
Ellerbe, F. H., N. Y. Life bldg
Fitzpatrick, M. J., 17 W 9th
*Gauger, A. F., Scandinavian-Am. B'k bldg
*Gilbert, Cass, 524-526 Endicott bldg
Holyoke, T. G., Endicott bldg
Jogerst & Erickson, Essex bldg
*Johnston, Clarence H., Manhattan bldg
Kretz, Hermann, N. Y. Life bldg
Linhoff, Peter J., Nat. G. A. Bank bldg
Lockwood, Louis, Nat'l Ger. Amer. Bk bldg
MacLeod, Jas. Allen, Endicott bldg
Masqueray, E. L., Dispatch bldg
Postle & Mahler, Germania bldg
Reed & Stem, 601 Endicott bldg
Round, Olin H., Essex bldg
*Stevens, J. Walter, New York Life bldg
Thori, Alban & Fisber, Cham. of Com. bldg
Wheeler, Alfred H., Globe bldg
Wheeler, J. H., New York Life bldg
WINONA—Myhre, A. E.
Stevens, W. H.
ZUMBOTTA—Grover, C. L.

MISSISSIPPI.

BOONEVILLE—Alexander & Patrick
COLUMBUS—McClanahan, D. S.
Stansell, J. W.
Terry, Henry C.
GULFPORT—Roof, H. H.
JACKSON—Austin, H. N.
Hull, E. J.
*Hull, W. S.
Tinsley, W. P.
MERIDIAN—Krouse, P. J.
NATCHEZ—†Kitteringham, G. W.
VICKSBURG—Donovan, N. J.
Stanton, Wm. A.
WESSON—Woodin, A. T.
YAZOO CITY—†Davis, J. H. & Son

MISSOURI.

AURORA—Benjamin, A.
BEVIER—Chitwood, W. M.
BOONVILLE—Ravenel, Samuel W.
CAMERON—Merwin, Hugh
CANTON—Sason, E. N.
CARTHAGE—Ehlers, A., 1327 S Maple
Fearey, Roht. H., 420 Sycamore
Prather, J. A., 1101 S Maple
CHILLICOTHE—Garver, Wm. L.
COLUMBIA—Miller, F. P.
Duncan, A. T.
Pierce, Harry L.
DE SOTO—†Hemmel, Charles
FULTON—Bell, M. F.
GLASGOW—†Rail, Gustav
GRANBY—Mathews, Lee
HANNIBAL—Martin, Malcolm
Schmitt, Ernest
HIGGINSVILLE—Boyer, W. C. & Son
HOPKINS—Akin, John A.
INDEPENDENCE—Walker, T. M.
JEFFERSON CITY—Miller, F. B.
JOPLIN—Allen, Austin & Co.
Garstang & Rea
Michaelis, A. C.
Newkirk, W. W.
KANSAS CITY—Allen, Austin & Co., Dwight
Anderson, A. B., N. Y. Life bldg bldg
Ashley, A. J., 1221 Grand av
Boller, Carl, Nelson bldg
Braecklein, J. G., New England bldg
Brooks, B. H., Beales bldg
Brown, W. E., New Ridge bldg
Carman, George, Reliance bldg
Chamberlain, S. E., 8th & Grand

Curtis, R. A., Water Works bldg
*Curtiss, Louis, 1115 McGee
Dole, Arthur G., 1009 Admiral boul
Drake, H. A., Reliance bldg
Edwards & Sunderland, Sheildley bldg
Eisenbraut Co.
Fall, Wm. B., 3500 Warwick boul
Faris & Carrier, Shukert bldg
Felt, J. H. & Co., New Shukert bldg
Frink, S. R., 10th & Walnut
Garvey, A. A., 2006 Indiana av
Gilman, Roger, New York bldg
Goddard, Otis, Reliance bldg
Greenleaf, W. E., Gumbel bldg
Guinotte & Thurtile, Champan bldg
Gunn, F. C., Postal bldg
*Hamilton, F. B., City Hall
Hansen, F. E., Water Works bldg
Harris, W. E., Portsmouth bldg
Hogg, J. O., N. Y. Life bldg
Howe, Holt & Cutler, 315 E 10th
†Hucke & Sexton Contract Co., Dwight bldg
Hunt, Jarvis, Dwight bldg
Jackson & McIlvain, Dwight bldg
Jacobs, H. M., 3314 Woodland av
Janssen, Ernest C., Chemical bldg
Keene & Simpson, Reliance bldg
Keely, Geo. L., Water Works bldg
Kurfass, S. H., Searritt bldg
Lee, J. R., 515 Main
Levering, L. L., 1615 Prospect
Lovitt, Walter U.
Ludlow, T. H., Ricksecker bldg
McDonald, Geo. E., Searritt bldg
McKecknie, J. W., New York Life bldg
Madoris, Edgar P., Bryant bldg
*Markgraf, Rudolf, Keith-Perry bldg
Martling, J. H., 15 W 9th
Michaels, Fred'k H., Reliance bldg
Middaugh, L. G., K. C. Life bldg
O'Connell, Matt., New Ridge bldg
Owen, Albert S., Starritt Arcade
Parker, F. E., Kemper bldg
Plym, Francis J., Kemper bldg
Pomerantz, A., Bradley bldg
Ramp, L. F., New Ridge bldg
Rea, F. S., Finance bldg
*Root & Siemens, Searritt bldg
*Rose, W. W., 715 Minnesota av
Saylor & Seddon, Gumbel bldg
*Schmidt, C. P., New Shukert bldg
Schrage, W. F., 43 E 32d
*Shepard & Farrar, Long bldg
Sherrill, Frank A., 912 Walnut
Short, I. M., 711 Euclid
Simons, H. J., Commerce bldg
Sloan, C. B., Sloan bldg
*Smith, Chas. A., Finance bldg
Somerman, Larey & Co., Commerce bldg
Steward, F. S. & Son, 1223 Magee
Stroeh, H. J., Kemper bldg
Sntter, D., 1214 Main
Tate, John W., Postal Tel. bldg
Thompson, J. Francis, Mass bldg
Troje, Robert, 2416 E 23d
*Turney, Albert, Sharp bldg
*Van Brunt, A. & Co., Reliance bldg
Vandenbergh, C. C., New York Life bldg
Von Unwerth, B. A., 2905 Locust
Weathers & Curtis, Hall bldg
Wilder & Wright, First Nat. Bank bldg
Williams, J. C., New York Life bldg
Willis, Bixby, N. Y. Life bldg
Wilson & Price, Sharp bldg
Wright, Ward W., Schuttler bldg
MARIONVILLE—Benjamin, A.
MARYVILLE—Earey, A. A.
ROLLA—*Hohenschild, H. H.
ST. JOSEPH—Bennett, J. H., 2617 Mitchell
†Delevan, E. C., 1124 Frederick av av
*Eckel & Roschen, Safe Deposit bldg
Hickman, G. M., Commerce bldg
Lynch & Cornelius, Safe Deposit bldg
Meier, Rudolph, Ballinger bldg
Powell, W. A., 416 N. 16th
Trunk & Helm, Hughes bldg
ST. LOUIS—Artel, Jno., 4230 Linton av
Baker & Knell, Olive c 9th
Barnett, Haynes & Barnett, Frisco bldg
Becker, Gerhard J., 2904 Bailey av
Berger, Richard A., 811 N 15th
Bishop, S. A., 215 N 12th
Bochner, Otto J., 211 N. 7th
Boisselier, Caspar D., Missouri Trust bldg
*Bonsack, Frederick C., Pierce bldg
Bouchspies, Wm. F. C., 1601 S Grand av
Boyers, John A., 2726 Dalton av
Bradshaw, Preston G., 722 Chestnut
Breitschuh, Chas. N., 709 Pine
Bryan Architectural Co., 420 Olive
Burgdorf, Herman J., 2604 Virginia av
Cann, W. A., 705 Olive
Chamblin, E. Ross, 211 N 7th
Chivers, Herbert C. & Co., 721 Olive
Clymer & Drischler, 105 N. 7th
Colvin, Homer V., 2639 Thrush av
Cope & Stewardson, 319 N 4th

Danks, Geo. D., 916 N. Theresa av
Deitering, Chas. H., Olive & 7th
Donovan, Jos. D., 8301 Lucille av
Dunham, John M., 816 Olive
Dwyer, John R., 207 N. 8th
*Eames & Young, Wright bldg
Elsner, Adolph W., 105 N. 7th
Emig, Christian G., 3711 Utah pl
Ewald, Laurence, 4th & Locust
Foell Architectural Co., 3347 California av
Fridrich, Chas. L., 5120 Wells av
Fruqua, Thos. B., 911 Chestnut
Garden, Edw. G., Chemical bldg
Gillek, Aloysius F., 319 W. Steins
Givens, Jos. B., 220 N. 4th
Givens, Jos. W., 220 N. 4th
Greene, Charles R., Liggitt bldg
Griebel, Frank L. E., 4292A Easton av
Groves, Albert B., 314 N. 4th
Grnen, Wm. H., 721 Olive
Guentert, Eli, 5817 Easton av
Hacker, W. Phillip, 4534 Cottage av
Haeger, Leonhard, 3844-A Utah pl
Haeussler, August F., 510 Pine
Hallock, Ross C. H., 6317 Clifton av
Hammons, Will L., 5735 Delaware av
*Heimbürger, G. U., Merchants-Laclede bldg
Helfensteller, Hirsch & Watson, 721 Olive
Hellingmuth & Spiering, 405 N. 6th
Herthel, John W., 324 Chestnut
Hess, Ernest J., 3416 Arsenal
Hesse, Jos. D., Arch'l & Bldg Co., 122 N
Hershstein, J. M., Columbia bldg 7th
Holloway, Chas. S., 407 N. 8th
Holly, Francis, 1841 S. 10th
Holtmann, Wm. F., 3635-A Liermann av
Hormann, Louis, 821 Chestnut
Hummel, Chas., 706 Chestnut
Janisch, Wenzel J., 2206 Mission av
Johnston, Thos. D., 2108 Pine
Kennedy, Josiah W., 2911 Thomas
Kennerly, Geo. H., 202 N. 9th
Kessler, Geo. E. & Co., 906 Olive
Kirchner, August H., 1861 N. Market
Kirehner, H. Wm., Chemical bldg
Kirsch, R. G. Co., 407 N. B'way
Kirschstein, J. M., Columbia bldg
Klipstein & Rathmann, Chemical bldg
Klutho, Victor J., 915 Olive
Kubatsky, Otto, 4140-A N. Newstead av
Lee, T. C., Arch'l & Bldg Co., 717 Locust
Lellek, Jos., 3750 Hebert
Levy, Wm., Wright bldg
*Link, Theodore C., 308 N. 6th
Loewe & Meagher, 407 N. 8th
Lucas, Wm. A., 816 Olive
Lynch, Jas. Hal, 625 Locust
McArdle, Montrose P., 721 Olive
McCarthy, J. L. D. Arch'l & Eng. Co., 816 Olive
McMahon, Wm. F., 105 N. 7th
*McNamara, Jas. H., 6 N Grand av
Maack, Henry, 1742 Choutau av
*Manny, Edmund A., 319 N. 4th
Mariner & La Beaume, Chemical bldg
Matthews & Clarke, 705 Olive
*Mauran & Russell, 721 Olive
*May, Chas. F., 408 Olive
Mehl & Muskopf, 393 N. Euclid av
Melcher, N. Henry, 310 Cedar
Milligan & Wray, Olive c 8th
Mounts, W. P., 1412 Rowan av
Nolte, Edw. F., 122 N. 7th
O'Malley, Patrick, 1742 N. Euclid av
Osterhorn, Robt., 1023 N. 6th
Parker, Francis A., 4128 Arsenal
Paulus, John D., 408 Olive
Peck, Austin, 706 Chestnut
Peipers, Henry E., 19 S. Broadway
Pendleton, Louis B., 705 Olive
Pipe, Geo. W., 5039 Maffitt av
Pomeroy, Chester W., 4338 Delmar boul
Popp, Oliver J., 816 Olive
Powers, Herbert W., 620 Chestnut
Preisler, Ernst, 918 Pine
Raby, Geo., 926 Maryville av
Raeder, Oscar W., 2227 Warren
*Ramsey, Chas. K., 105 N. 7th
Rankin, Jas. C., 211 N. 7th
Rapp, Theo., 3507 Chippewa
Riddle, Alex. J., 4227 Blaine av
Ridlington, A. Blair, 122 N. 7th
Rivers, Julius F., 2633 Wash'n av
Roach, Harry F., 915 Olive
Rottler, Leo, 4221 Virginia av
Russell, Ernest J., Chemical bldg
Samuel & Beardsley, 423 Chestnut
Sanguinet, Reuben V., 407 N. 8th
Scharff, Arthur A., 722 Chestnut
Schleicher, Fred'k, 1315 Park av
Schmaacher, Stephen O., 211 N. 7th
Schwartz, A. G., 407 N. Taylor av
Schwiete, Peter, 4348 De Soto av
Stauder, Jos. & Sons, 19 S. B'way
Stephens & Pearson, 705 Olive
Stewart, Frank L. Bldg & Realty Co.

*Taylor, Isaac S., 717 Locust
Traber, Oliver R. S., 122 N. 7th
Trueblood, Wilbur T., 5658 Von Verson av
*Tully & Clark, 319 N. 4th
Victor Arch'l & Bldg. Co., 3447 Pestalozzi
Wageley, Geo. L., 5971 Easton av
Wagner, Wm. L., 3928 California av
Watson, Jesse N., Chemical bldg
Weakley, Raymond D., 705 Olive
Wedemeyer, Wm., 105 N. 7th
*Wees, J. L., 214 N. 6th
*Wessbecher & Hillebrand, 19 S. B'way
Widmann & Walsh, 105 N. 7th
Wilhelmi, Otto J., 406 Market
Wright, Alonzo W., 4299 D. Cook av
Wuest, Gustav P., 105 N. 7th
Zeppenfeld, Richard, 5814-A Garfield av
SAVANNAH—Skuse, Richard H.
SEDALIA—Bast, T. W.
SPRINGFIELD—Foley & Schreiber, Merchants
Nat'l Bank bldg
Miller, Opel & Torbet, Merchants Nat'l
Bank bldg
Reed & Heckenlively, 126 Public sq
TRENTON—Love, S. P.

MONTANA.

BUTTE—Kenna, Herman, Miner bldg
Kent & Shandley, Hennessey bldg
Kent & Shanley, Hennessey bldg
Kern, M. D. & Co., Owsley blk
Link, J. G. & C. S., State Sav. B'k bldg
Nickel, R. A., 16 W. Granite
*O'Brien, W. A., 20 E. Quartz
*Passmore & Co., 25 W. Granite
GREAT FALLS—Donovan, W. E.
Mowery, W. R.
HARLOWTON—Lea, R. R.
HELENA—Linke & Haire.
KALISPELL—Gibson, J. B.
LEWISTON—Cross, K. C.
Eastman, G. D.
Gaunt, Newton
LIVINGSTON—Hornbeck, F. S.
MISSOULA—Gibson, A. J.
Hamill, H. J.
Kennedy, John H.
Logan, Velters V.

NEBRASKA.

AUBURN—Bellus, Hugh
BEATRICE—Grant, R. W.
BLAIR—Vangban, Louis
COLUMBUS—Pearsall, Jas.
Wurdeman, Chas.
FAIRBURY—Gernanet, W. F.
FALLS CITY—Hofer, A. E.
FREMONT—Dyer, A. H.
West, J. A.
HASTINGS—Bair, M. N.
Staley, O. N.
Way, C. W.
LINCOLN—Berlinghoff, Geo. A., Burr blk
Fisk & Deiman, Richards blk
Leach, Marcens, Brownell bldg
Tyler & Brant, Burr bldg
Woods, Alfred W., 109 S. 10th
NORFOLK—Morrison, Alex
Stitt, James C.
NORTH PLATTE—Thomson, R. D., 127 6th
OMAHA—Barstow & Lemm, Paxton bldg
Brooks, W. S., 1610 Capitol av
Clarke, Fred'k W., 685 Brandies
Oraddock, James H., 18th & Farnam
Creedon, P. J., Paxton blk
Davey, J. Jeffery, Brandies bldg
Deitrick, J. E., 540 Ramge bldg
Fisher & Lawrie, Paxton bldg
Frankfurt, H. D., Douglas blk
Guth, J. P., Paxton blk
Hall, Oliver A., N. Y. Life bldg
Henninger, F. A., New York Life bldg
Hicks, I. P., 30th & Fort
Kimball, Thos. R., McCague bldg
Krelle, F. W., 864 Brandies
Latenser, Jno., Bee bldg
McDonald, John, New York Life bldg
Mason, J. B., Paxton blk
Miller, Burt F., N. Y. Life bldg
Misener, W. T., 539 Ramge blk
Nachtigl, J. M., 1803 Center
Petersen, Wm., Brander's bldg
Prinz, Geo. B., N. Y. Life bldg
Raapke, Bee bldg
Shields, Alexander, 1609 Webster
Weber, Perry, 531 S. 25th av
White, Kesson, Bee bldg
SOUTH OMAHA—Davis, L. A.
Kiewit, Jno., Jr.
UEHLING—Haresen, L. P.

NEVADA.

HAWTHORNE—Hill, H.
RENO—Schadler, F. M.
Schadler, F. M.
Tesch & De Louchant
VIRGINIA CITY—Dickson, R.

NEW HAMPSHIRE.

CLAREMONT—Beckwith, H. R.
CONCORD—Forrest & Cunningham
Randlett & Griffin
Wheeler, Giles
DOVER—Ramsdell, A. T.
Richardson, J. E.
EAST GRAFTON—Smith, Alvin L.
KEENE—Foster, H. A.
Gordon, Geo. A.
LISBON—Whitcher, C. R.
MANCHESTER—Baker, J. Edw.
Butterfield, W. M. & Co.
Provost, Wilfred E.
Whitcher, C. R.
MILTON—Jones, I. W.
NASHUA—Holt, Duane F. & Son
Locke, Miss Harriet F.
NEW LONDON—Smith, Reverdi
PENACOOK—Sanders, C. H.
PORTSMOUTH—Paul, Henry S.
ROCHESTER—Dame, John W.

NEW JERSEY.

(Licensed Architects of New Jersey)

ALLENHURST—Dodge, Fred H.
Gumaer, Edw. B.
ARLINGTON—Adams, Jas.
Nostrand, Eugene S.
Pearsall, Wm. Riee
Scrimshaw, Jas. F.
Zachau, Carl F.
ASBURY PARK—Arend, Ernest A.
Cottrell, W. C. & A. F.
Dodge, Paul L.
Smith, Clarence W.
Strond, Jas.
ATLANTIC CITY—Adams, Harold F.
Dobbins, Steward G.
Hewitt, Wm. S.
Mann, Harry C.
Ogden, Jos. R.
Shumway, Harvey J.
Stout, Howard A.
Vaughn, S. Hudson
ATLANTIC HIGHLANDS—Emery, Thos. G.
Price, Max C.
AVON—Bodine, Frank V.
BAYONNE—Anderson, Donald G., 932 Ave C
Bagnell, Jas., 240 B'way
Gnise, Philip, 95 W. 32d
Horwitz, Sam'l S., 505 Ave D
Reilly, Eugene F., 228 Ave D
Scheffer, Morris L. J.
Schmidt, Aug., 330 Ave D
Schmidt, J. J., 352 Ave C
Schule, Amand, 360 Ave C
BELMAR—Allen, W. E.
Hooper, Wallace G.
BERNARDSVILLE—Diehl, James
BEVERLY—Street, J. Fletcher
BLOOMFIELD—Aimar, L. Jerome
BOONTON—Darress, Clair
BORDENTOWN—Fowler, Percy L.
BRADLEY BEACH—Benner, Elmer C.
BURLINGTON—Allinson, Geo. A.
Brown, Henry A.
CALDWELL—Bartlett, Herbert F. J.
Loekwood, Lynn G.
Luehman, August T.
CAMDEN—Davis, Rich D.
Lackey, Benj. H.
Moffett, Herbert N.
Stephen, Thos.
CARLSTADT—Wulling, Jno., Sr.
CHATHAM—Poole, Geo. E.
CLIFTON—De Rose, Joseph
COLLINGSWOOD—Rice, Harry H.
CRANFORD—Bell, Clyde Chas.
Bragdon, Wm. B.
Collins, D. C. N.
Hollingsworth, Frank
DOVER—Mullison, Chester D.
Vreeland, J. J., Jr.
EAST NEWARK—(See Newark)
EAST ORANGE—Baker, John E., 62 Morton pl
Bower, W. Frank, 12 Evergreen pl
*Bowman, Wm. T., 25 S. Walnut
Bnsh, Irvin J., 173 S. Nunn av
Butterfield, Wm. H., 85 Chestnut
Eagles, Israel C., 153 N. 16th
Grant, Jos. W., 145 Glenwood av
Krug, Geo. E., Metropolitan bldg
Lippert, Franz G., 178 Central av
Schmidt, Wm. C., 520 Springdale av
Teets, Geo. E., 28 Wash'n pl

Ward, Edw. A., Jr., 68 Vernon Terrace
 Whittemore, Samuel W., 7 Prospect
EDGEWATER—Aschendorf, Herman
 Hayek, Andrew A.
ELIZABETH—Beatty, J. B., 72 Broad
 Clum, Wm. E., 210 Broad
 Hoover, W. H., Jr., 244 Broad
 Oakley, J. A. & Son, 1201 E Broad
 Poggi, C. Godfrey, 2 Julian pl
 Provost, David B., 78 Broad
 Quien, Louis, Jr., 251 Elizabeth av
 Wind, Jacob, Jr., 208 Broad
ENGLEWOOD—Aymar, Ernburg H.
FREEHOLD—Conover, Warren H.
GARFIELD—Harrop, Jno. T.
GLENRIDGE—Webb, Gregory B.
GRANTWOOD—Drew, Geo. S. Jr.
 Sibley, Charles E.
HACKENSACK—Atwood, Leland M., 152 Main
 Bogart, Cornelius V. R., 185 Main
 Collins, Geo., Stanley pl
 Gray, Coleman, cor River & Salem
 Light, Wm. U., Vanderbeck pl
 Lowndes, Wm. Shepherd, Grand av
 Read, Dean D., 82 Park
HARRISON—Breitenbucher, Geo. W.
 Kennedy, Joseph
HASBROUCK HEIGHTS—Morrison, A. B.
HOBOKEN—Beyer, Max, 81 River
 Brokhaus, Geo. C., 402 Washington
 Brummerhop, Philip, 118 Park av
 Ciccarelli, Eugene, 2nd Nat'l Bank bldg
 Fall, Chas., 14th & Washington
 Hilpert, Jno. A., 812 Garden
 Meystre, Louis & Son, Savings Bank bldg
 Nies, Frank J., 115 Ferry
 Steigleiter, Fred'k, 92 Hudson
HUDSON HEIGHTS—Croissant, Eugene F.
IRVINGTON—Allen, Jos. B.
 Lemmer, Fred'k
 Moll, Wm.
 Sonnenberg, Jos.
KEARNEY—Warren, Jno. B.
JERSEY CITY—Armstrong, John Jr., 175
 Duncan av
 Bogart, Wm. H., 712 Bergen av
 Broome, Lewis H., 76 Montgomery
 Cardiff, Jos. A. F., 288 Monmouth
 Eulich, Frank A., 15 Exchange pl
 Feinen, L., Jr., 3649 Boulevard
 Flagg, Geo. A., Jersey City Tr. bldg
 Giele, Louis H., 147 Hutton
 Glanzmann, Fred'k W., 682 Ocean av
 Guhl, Emil, 19 Charles
 Hall, Chas. F. A., 122 Vroom
 Hankin, Walter, Clinton av
 Helmers, Jno. G., 431 N. Y. av
 Insley, Edward W., 402 Central av
 Jaerschky, Fred'k A., 15 Exchange pl
 Lamster, Edw. J., 6 Mercer
 Lindsay, Jas. C., 163 Randolph av
 Long, C. Frederick, 1 Montgomery
 Neumann, H. & W., 202 Ogden av
 O'Neill, Jno. J., 14 Oakland av
 Patterson, Edward M., 1 Montgomery
 Pia, Albert E., 441 Fairmount av
 Quaife, Ernest E., 66 Harrison av
 Raymond, H. Newman, 771 Ocean av
 Resch, Jno. A., 170 Lexington av
 Ripp, Geo. F., 17 Virginia av
 Roberts, Hugh, 1 Exchange pl
 Rodman, Chas. B., 6 West
 Russell, Harry Combes, 688 Ocean av
 Rowland, John T., Jr., 15 Exchange pl
 Sailer, Rudolph W., 76 Montgomery
 Smith, Robert P., 576 Newark av
 Stork, Edw. J., 212 Hancock av
 Tilton, Wm. A., 76 Montg'y
 Von Arx, Geo. W., 15 Exchange pl
 Wlelbacher, Philip, 85 Booraem av
 Wolfe, Wm. H., 745 Grand
 Ziegler, Christian H., 76 Montgomery
KENILWORTH—Adams, G. L.
KEYPORT—Young, H. A.
LAKEWOOD—Delatash, Jacob Chas.
 Thomas, John B.
LOCUST POINT—Vanderhoof, Chas. A.
LONG BRANCH—Cubberly, Leon
 Seymour, Hugh B.
 Wilson, Clarence D.
MAPLEWOOD—Main, Lucius Clark
MAURER—Liebau, Gustav H.
MERCHANTVILLE—Brooke, Chas. J.
 Macomb, Henry A.
 Morton, John Edgar
 Truscott, Arthur
MILLBURN—Dow, J. W.
 Wright, Frank A.
MONTCLAIR—Bloodgood, Wm. E., 9 Gates av
 Dodd, Jno. C., Appleton pl
 Fisher, H. Messinger, 483 Bloomfield av
 Lockwood, Jesse H., 320 Bloomfield av
 Myers, Christopher, 460 Bloomfield av
 Norris, Albert F., 118 Union
 North, Effingham R., 483 Bloomfield av

Siglet, Ira, 74 Valley rd
 Styles, John E., 64 Willowdale av
 Van Antwerp, Dudley S., 483 Bloomfield av
 Vickers, Arthur, 26 Waterbury rd
 Weeks, Raymond D., 460 Bloomfield av
 Yost, Henry L., 481 Bloomfield av
MONTCLAIR HEIGHTS—Simpson, Alfred W.
MOORESTOWN—Le Coney, Wm. G.
MORRISTOWN—Mills, Geo. A.
 Plerson, Walter B.
 Vandoren, Wm. C.
 Walsh, Rob't C.
 Weir, Collins, B.
NEWARK—Apgar, Jno. A., 246 N 7th
 Arenander, Carl E., 587 Summer av
 Aschenbach, Walter J., 349 Plane
 Avercamp, Francis, 59 13th av
 Backoff, Geo. W., 22 Clinton
 Baechlin, Henry, 45 Clinton
 *Baldwin, Chas. P., 45 Clinton
 Bartlett, W. Orrin, 738 Broad
 Bertrand, Chas. F., 7 Mt. Pleasant av
 Bigelow, Frederic, 857 Broad
 Brady, Harold B., 27 Academy
 Bottelli, Romolo, 191 Market
 Bush, Irvin J., 119 N. Munn av, V
 Byles, Chas. J., 58 Wakeman av
 Campbell, Geo. W., 171 Broad
 Capen, John F., 45 Clinton
 Charles, Peter, 11 Clinton
 Conklin, H. King, 45 Clinton
 Connelly, Arthur, 92 Market
 Cook, J. Fred., 45 Clinton
 Cressey, Thomas, 800 Broad
 Dettlebach, Harry, 222 Washington
 Dodge, Harvey E., 90 Burnet
 Dulje, Chas. T. R., 82 Oraton
 Ely, J. H. & W. C., 800 Broad
 Erier, Richard W., 45 Clinton
 Grad, Frank, 137 Springfield av
 Grant, Edw. E., 397 Washington av
 Hasselman, Fred'k R., 185 Market
 Havell, Hy. D., 22 Clinton
 Heintzelman, Andrew, 73 Burnet
 Heyne, Aug. D., 121 Oraton
 Higby, Gilbert C., 45 Clinton
 Hooper & Co., 118 Market
 Hopper, Daniel A., 744 S. 15th
 Hughes, T. Cecil, 22 Clinton
 Hurd & Sutton, 11 Clinton
 Jones, W. Davenport, 881 Broad
 King, Hy. J. & J. V., 22 Clinton
 Kitchell, Bruce P., 738 Broad
 Kleeman, August M., 493 S. 10th
 Knopf, Chas., 459 18th
 Kreidler, Herman, 45 Clinton
 Lehman, Wm. E., 738 Broad
 Linnett, Wm. M., 70 S. 10th
 MacLagen, Peter T., 45 Clinton
 McMurray & Pells, 22 Clinton
 Metzger, Herman, 240 Market
 Myers, Nathan, 238 Wash'n
 *O'Rourke, Jeremiah & Sons, 11 Clinton
 Peter, Alfred, 238 Washington
 Phelps, Frederick A., 15 Clinton
 Phillips, Albert, 70 Park pl
 Pigott, Jas. S., 15 Clinton
 Rahm, Jno. C., 179 Market
 Reeve, H. E., 818 Prudential bldg
 Rizzolo & Gonnelli, 800 Broad
 Rosensohn, Hyman, 745 Broad
 Schoenig, Wm. K. & Son, 418 Springfield av
 Sellick, Robert, 222 Market
 Silberstein, M. B., 63 Market
 Staehlin, Gustavus, 238 Wash'n
 Steinbrenner, Chas. L., 156 Market
 Strombach, Julius, 238 Washington
 Swinnerton, Jas. C., 351 Clifton av
 Thomson, A. H., 222 Market
 Valentine, Chas. M., 270 Passaic
 Virtue, Lincoln A., 40 Clinton
 Walters, Alfred, 45 Clinton
 Warren, Edward V., 22 Clinton
 Warren, John B., 22 Clinton
 Webster, Fred'k, 11 Clinton
 Wehrle, Martin J., 17 Lanark av
 Weiler, Henry J., 167 Hamburg pl
 Wurth, Ed. A., 11 Clinton
NEW BRUNSWICK—Blish, J. Arthur, 363
 George
 Merchant & Boylan, 384 George
 Parsell, Geo. K., 363 George
 Williamson, D. D., 384 George
NORTH BERGEN—Marcy, Paul A.
NORTH PLAINFIELD—Clum, Wm. H.
 Force, Chas. L.
 Smith, Chas. H.
NUTLEY—Elliot, Clive S.
 Lambert, Wm. A.
OCEAN CITY—Champion, Jos. G.
OCEAN GROVE—Carman, Wm. H.
ORANGE—Baldwin, Chas. Henry, 252 Main
 Colt, Samuel S., 91 N Centre
 *Eichhorn, Augustus, 81 Essex av
 Krug, Geo. E., 230 Main
 Lamb, John J., 222 Main

McCulloch, Robt. A., 11 High
 Marsh, Jos. J. & Fred T., 17 Cone
 Melendy, Geo. E., 204 Center
PARKRIDGE—Foster, Geo. W., Jr.
PASSAIC—Doane, Edward P., 185 Main av
 Fritz, Herman, 229 Main
 Hettema, Harry A., 260 Autumn
 Kelly, Jno. F., P. O. bldg
 Meeker, Wm. M., 187 Main
 Prieskel, Abram, Hobart Trust bldg
 Strong Lambert, Main & Harrison
 Struyk, Jno. S., P. O. bldg
 Tenis, Peter J., Hobart Trust bldg
 Twist, Ernest E., 229 Main
 Van Winkle, Cortlandt J., 257 Main av
 Warnaar, Henry, 82 Midland av
 Waterhouse, Chas. B., 257 Main av
 Witte, Aaron, 128 Madison
PATERSON—Ackerman, Wm. S., 5 Colt
 Angelicola, V. & A. F., 32 Cedar
 Crosby, Henry B., Jr., First Nat. Bank bldg
 DeRose, Jos., 119 Ellison
 Dickinson, W. Elbert, 170 Market
 *Edwards, Chas., Market & Main
 Fanning, Wm. T., Colt bldg
 Godeffroy, Richard, 5 Colt
 Houman, Marinus, 10 Park av
 Mackintosh, Alex., 5 Colt
 Maies, Valard L., 223 Summer
 O'Neill, Wm. H., 153 Slater
 Rahm, August J., 140 Market
 Rogers, Samuel, Paterson Sav. Inst. bldg
 Schwarz, Fred'k J., 336 Getty av
 Sleight, Chas., 136 Washington
 Stephens, Harry Thornton, United B'k bldg
 Vermeulen, Wm. Christian, 125 Ellison
 Wentworth, Fred. W., Citizens' Trust Co.
 White, Chas. E., 12 Hamilton bldg
PERTH AMBOY—Dayton, Jno. H.
 Growney, Jas.
 Jensen, Jeno K.
 Pierson, John Noble
 Smith, C. Howard
PLAINFIELD—Aalholm, A. C.
 Detwiller, Chas. H.
 Fosgate, Blanchard
 French, Edw. V.
 Karr, Corydon P.
 Lancaster, Fred L.
 Marsh, Augustus L.
 Metcalf, Fred R.
PLEASANTVILLE—Rogers, Harry V.
RAHWAY—Ryno, W. L.
RED BANK—Shoemaker, Wm. A.
 Swannell, Jos.
RIDGEFIELD PARK—Crandall, Edgar A.
 Lozier, Cyrus J.
 Mehrhof, Chas E.
RIDGEWOOD—Clinton, De Witt, Jr.
 Fornachon, Maurice
 Keyser, Chas. S.
 Townsend, Boyd A.
 Zabriskie, Walter C.
ROCHELLE PARK—Innen, Henry S.
ROSELLE PARK—Broome, Jos.
 Polhemus, Peres B.
ROSELAND—Cass, W. Earle
SEABRIGHT—Jahnes, Nath'l
SOMERVILLE—Vanderbeek, Jacques
 Van Nuys, P. C.
SOUTH ORANGE—Colley, Chas. E.
 Duncklee, Jno. B.
 Grant, Chas. C.
SPRINGFIELD—Carter, Wm. P.
SUMMIT—Cady, Jno. N.
 Penniman, Julian A.
 Shapter, Rich. S.
 White, Benj. V.
TOWN OF UNION—(See Weehawken.)
TRENTON—Acock, Fred'k, 40 E. State
 Bamford, Wm. Brokaw, Hamilton & Chest-
 Endebrock, Wm. P., 135 E. State nut
 Finch, Hy. E., 144 E. State
 Harrold, John W., 960 Brunswick av
 Hill, Harry A., 40 E. State
 Keeler, G. W., 138 W. Hanover
 Klemann, Wm. A., First Nat'l Bank bldg
 Osmand, Chas. S., 44 Yard av
 Poland, W. A., 11 W. State
 Swan, Abram, Broad Street Bank bldg
 Tomlinson, Harry C., 631 Kent
UNDERCLIFF—Merseau, Ross
UPPER MONTCLAIR—(See Montclair.)
WATCHUNG—Kutz, Sam'l J.
WEEHAWKEN—Breiby, Jno. Conrad, 262
 Hudson boul
 Butz, Geo., 144 Bergenline av
 *Diemer, Philip H., 128 Humboldt
 Dixon, Rob't C., Jr., 148 Bulls Ferry rd
 Huberti, Fritz, 117 Bulls Ferry rd
 Kleinke, Ferdinand J., 129 Jane
 Lugosch, Jos. D., 15 Bergenline av
 Turck, Jos., 770 Bergenline av
 Vivorttas, Percle A., 102 4th
 Wilmington, Harvey V., 40 3d

WESTFIELD—Collins, Edw. R.
Darsh, Chas. H.
Robinson, Robt. L.
WEST HOBOKEN—Hensel, Fred A., 248 Summit av
Lawrence, Herbert E., 431 Pallsades av
McDermott, Edward, 582 Spring
McIntyre, Geo. B., Bank bldg
Randall, Chas. W., 201 Lake
Singer, John, Jr., 414 Spring
Soldwedel, Nicholas, 349 Clinton av
WEST ORANGE—Roos, Carl L.
WESTVILLE—Dickinson, Frank L.
WESTWOOD—Stever, Arthur J.
WHIPPANY—Gegenheimer, John P.
WOODBURY—Shivers, Clifford H.
WYOMING—Olcott, Horatio W.

NEW MEXICO.

ALBUQUERQUE—Cristy, Edward Buxton
La Driere, J. L.
Thorman, Otto H.
LAS VEGAS—Holt & Hart
ROSWELL—Nelson, J. M. & Co.
SANTA FE—Rapp, I. H. & W. M. Co.

NEW YORK.

ALBANY—Brownell, C. H., 119 State
DeForest, Herbert H., Tweddle bldg
Emery, Marshall L., 42 N. Pearl
*Fleischmann, Adolph, 59 N. Pearl
Fuller & Pitcher, 95 State
Hill, W. R., 43 State
Hunt, Geo. W., 71 State
La Rose, A. W., 100 Jay
Marshall, Chas. E., 41 Beaver
Niver, Worthy, 195 Hamilton
Obenaus, Wm. J., Bensen bldg
Ogden & Van Guysling, 63 State
Reynolds, Marcus T., 100 State
Rose, Robt. J., 130 Chestnut
Schade, Wm. C., De Graf bldg
Selkirk, Alex., 31 N. Pearl
Wichman, H. G., 3 N. Pearl
Woollett & Judson, 82 State
ALTAMONT—Wright, W. D.
AMSTERDAM—Cassidy, David D., Jr.
Hodge, F. H.
ASTORIA—See N. Y. City, Borough of Queens.
AUBURN—Armstrong, Frank H., Seward blk
Conklin, Mark, Seward blk
Elliott, J. M., Seward blk
Hillger, Samuel E., Seward blk
BABYLON—Kellwin, H. J.
Van Weelden, H.
BALDWIN—Carretto, Gustave
BATAVIA—Homellus, H. W. & Son
*Howard, Merritt
*Hyde, M. P.
Morrison, J. Willard
BAY SIDE—(See N. Y. City, Borough of Queens)
BINGHAMTON—Dickerman, E. W., Perry bldg
Gardner, H. A., Ackerman bldg
Lacey, Sanford O. & H. A., Phelps Bank
*Lacey, T. I. & Son, Kilmer bldg
Van Slyke & Woodruff, Sav. Bank bldg
Vosbury, C. Edward, Binghamton Savings Bank bldg
Whitlock, Walter H., Security Mutual bldg
BREWSTER—Waite, Frank E.
BROOKLYN—See New York City, Borough of (Brooklyn)
BUFFALO—Rayer, Chas. A., Erie Co. Bank bldg
Beck, Howard L., Erie County Bank bldg
Berry, S. R., 445 Breckenridge
*Bethune, Bethune & Fuchs, 215 Franklin
Brickell, W. S., 595 Ellicott sq
Cary, George, 184 Delaware av
Colson & Hudson, 35 Dun bldg
*Coxhead, John H., 928 Ellicott sq
Dell, Emerson C., D. S. Morgan bldg
Detrick, L. A., Palace Arcade
Eckel, L. P. J., 191 York
*Esenwein & Johnson, Ellicott sq
Fayfield, Robt. C., Ellicott sq
Fischer, Philip, 514 Dodge
*Green & Wicks, 110 Franklin
*Harris, T. W., Erie Co. Bk bldg
Haussauer, Jacob S., 21 Ada pl
Henrich, Edw. G., Mutual Life bldg
*Holland, H. O., Mutual Life bldg
Huber, Raymond, 341 Franklin
Hudson, C. Gordon, 99 Livingston
*Kent, Edw. A., Ellicott sq
Kuch, Gottfried, 628 E. Ferry
*Lansing & Beierl, 371 Pearl
*Little, Hy. H., 56 Norwood av
McCreary, Wood & Bradney, Mut. Life bldg
Mathewson & Parsons, Law bldg
*Metzger, Edward, Prudential bldg
Metzger, Geo. J., 19 W. Huron
Miller, M. C., Mutual Life bldg

Minks, A. & Son, 191 14th
Moeller, Edw'd H., 373 Pearl
*Mohr, Fred., 265 E. Utica
Newcomb, E. A. P., 68 Niagara
Oberkircher, J., 46 Orange
*Orr, Ulysses G., 32 Builders' Exchange
Paul, Emil C., 808 Main
Perram, Henry T., Brisbane bldg
*Porter, Cyrus K. & Sons, 73 W. Eagle
Post, A. A., Brishane bldg
Reidpath, Robert J., Builders' Exchange
Rice, Henry, Lewis bldg
Saenger, Louis, 43 Krettnr
*Schmill & Gould, Prudential Exchange
Schurman, Frank M., 18 Maple
Silner, John J., 76 Thompson
Swan, Chas. D., 51 Day's pk
Terney, Chas. F., 45 N. Division
*Waite W. T., 13 Ger. Ins. bldg
*Wallace, Robert A., Builders' Exchange
Wannenwetsch, C. H. A., 563 William
Wilkes, Oliver C., 42 Tyron Pl
Wolfe, Geo. Morton, 845 Ellicott sq
CARTHAGE—Patterson, A. W.
CATSKILL—Beardsley, C.
Warner, Geo. H.
CENTRAL SQUARE—Smith, Thos.
CHATHAM—Coon, Louis
Hunt, Alfred
COHOES—*Goddard, Wm. M.
Van Anken, Chas. H.
Van Anken, David H.
COOPERSTOWN—Edgerton, C. C.
CORNING—Tuthill, H. G. & Son
CORNWALL LANDING—Taylor, H. R.
CORONA—(See New York City Borough of Queens)
CORTLAND—Howes, M. F. & Son
DEPEW—Glade, John C.
EAST HAMPTON—Lawrence, J. Custis
EAST SETAUKET—Lyons, T. H.
ELMHURST—(See New York City, Borough of Queens)
ELMIRA—Considine, J. H., Robinson bldg
Dockstader, Otis, 103 W. Church
Ingham, J. Q., 376 W. Gray
*Pierce & Bickford, 118 Lake
EVERGREEN—(See New York City, Borough of Queens)
FAR ROCKAWAY—(See New York City, Borough of Queens)
FLUSHING—(See New York City, Borough of Queens)
FREDONIA—Curtis, E. A.
FREEPORT—Seaman, A. L.
FULTON—Cross, W. D.
GENEVA—Adams, Lloyd P.
GLENS FALLS—Lawrence, W. E.
*Potter, E. B.
Scales, W. J.
GOUVENEUR—*Johnson, Jas. H.
*Stacy, Geo.
HASTINGS UPON HUDSON—Hastings, F. L.
HUDSON—Moul, H. S.
O'Connor, M.
ITHACA—Gibb & Waltz, Trust Co. bldg
Miller, Wm. H., Sage blk
Vivian, Clinton L., 120 E. State
Wilgus, Jno. M., 6 Wilgus blk
JAMESTOWN—Freeburg, Geo.
Hall, A. & Son
Mason, Joseph
JAMAICA—(See New York City, Borough of Queens)
KINGSTON—Rice, Thos. P.
Teller, Myron S., 230 Wall
LARCHMONT—Butterfield, Alonzo O.
LITTLE FALLS—West, C. D.
LOCKPORT—Sylvester, J. W., 16 Pound
LONG ISLAND CITY—(See New York City, Borough of Queens)
LOWVILLE—*Rich, W. H. Son & Co.
MALONE—Conant, Henry N.
MAMARONECK—Leddy, Andrew
Perin, H. Corbey
Will, Edwin R.
MARATHON—*Holmes, John
MASPETH—(See New York City, Borough of Queens)
MATTEAWAN—Van Slyck, C. B.
MECHANICSVILLE—La Dow, J. S.
MIDDLETOWN—Canfield, D. H.
Lindsey & Son
Stalh, Kester W.
MOUNT VERNON—Guttenberg, S. A., 37 Prospect av
Jenks, A. Murray, 42 S. 4th av
Lucas, Herbert, Lucas bldg
MacKenzie, Colln, 136 Union av
Perry, James, 2 Park av
Rapeye, Henry S., 103 S. 6th av
Stickles, Walter F., P. O. bldg
NAPANOCH—Norden, Andrew B.
NEW BRIGHTON—(See New York City, Borough of Richmond)
NEWBURGH—Estabrook, Frank E., 75 2d
Sneed, Frederick M., City Hall bldg
NEW ROCHELLE—Birdsell, Christ J., 251 Huguenot
Burchell, Nath'l J., 51 Maple av

Kleist & Sagramoso, Syndicate blk
Luppraln, Chas. A., 180 Main
Pagan, Frank D., 57 Lawson
Sundberg, August, 280 Main
Winter, Frederick E., 244 Main
Youngs, W. H. W.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Allmendinger, Louis, 926 B'way
Bennett, Thos., 5123 3d av
*Berger, Louis & Co., 300 St. Nicholas av
Berlenbach, Francis J., Jr., 260 Graham av
Brock, Jos. A., 368 Van Buren
Buchar, F. W., 1774 Pitkin av
Cannella, Chas. P., 60 Graham av
Casslin, Walter L., 189 Montague
*Danacher, Louis, cor. Pitkin & Stoue
Dangler, Harold G., 215 Montague
Debus, Wm., 914 B'way
Dennis, Ernest, 591 Liberty av
Dessau, Fred'k J., 1373 B'way
Driesler, Benj., 178 Remsen
Elsenla & Carlson, 5819 5th av
Engelhardt, Theobald, 903 B'way
Erda, Gustave, 795 Manhattan av
Finkensieper, Benj., 134 B'way
Fischer, Adam E., 862 Bushwick av
Foley, Michael M., 2247 Homecrest av
Freeman, Jno. J., 69 Douglass
Glover, J. G., 166 State
Hebberd, Chas. E., 134 B'way
Hedman & Schoen, 367 Fulton
Helmle & Huberty, 190 Montague
Hendrickson, Edmund H., 117 Ainslie
Holder, Henry, Jr., 242 Franklin av
Holmgren, Eric O., 129 Marion
Houghton, Thos. F., 213 Montague
Hudson, Benj. F., 2 Ocean Parkway
Hudson, Benj. J. E., 72 Coney Island av
Infanger, Chas., 2632 Atlantic av
Jezek, Julius A., 1703 B'way
Kennedy, J. Sarfield, 44 Court
Koch, Arthur R., 26 Court
Koch, Henry H., 48 B'way
Kreinbrink, Chas. J., 26 Court
Le Quesne, C. A., 779 E. 32d
McDonald, Jas. A., Surf av & W. 24th
MacManus, A. J. & J. T., 44 Court
Madigan, G. Harry, 243 Withers
Millman, S. & Son, 378 Stone av
Millspaugh, G. Edw., 2413 Coney Island av
Morse, George L., 307 Wash'n
Mullin, C. Whitley, 189 Montague
Mumford, John, 189 Montague
Niebel, Jacob C., 59 Court
O'Neil, Francis A., 1110 B'way
Parfitt, Albert E., 26 Court
Parfitt Bros., 26 Court
Pfaff, Charles H., 197 Havemeyer
Pierce, A. White, 383 Jay
Pohlmann, Henry, 4807 5th av
Rasmussen, R. T., 850 B'way
Rissler, Andrew, 955 B'way
Roosen, Geo. F., 189 Montague
Ross, A. W., 540 Carlton av
Ryan, Wm. J., 164 Ryerson
Samenfeld, Lee, 409 Miller av
Sands & Wheller, 59a Reeve pl
Schaefer, Robt. T., 1524 Flatbush av
Schmidt, Siegfried H., 1169 Myrtle av
Shampan & Shampan, 772 B'way
Short, R. T., 2975 Fulton
Silkworth, Chas. E., Jr., 44 Court
Skrzynecki, Gustav A., 350 Fulton
*Slee & Bryson, 189 Montague
Spicer, H. L. & D. H., 369 Fulton
Thlnnes, Jacob, Jr., 245 DeKalb av
Tillion, Philemon, 44 Court
Ullrich, Albert, 373 Fulton
Ultzen, William, 612 Herkimer
Vollweiler, Hy., 696 Bushwick av
Voss & Loritzen, 65 DeKalb av
Werner, Chas., 26 Court
Whipple, Henry D., Ocean av & Av T
Wills, Walter B., 32 Ditmars
Wunder, Fred'k & Son, 957 B'way

Boroughs of Manhattan & Bronx.

NEW YORK—Abramson, Louis, A., 788 E. 165th
Ach, David M., 1 Madison av
*Adams, Wm., 15 W. 38th
Ajillo, Gaetan, 1 W. 34th
Albrecht, Frederick E., 345 E. Fordham rd
Albro & Lindeberg, 481 5th av
Allen, Augustus N., 569 5th av
Allen, Jerome R., 345 5th av
Allen, J. Warner, 27 E. 22d
Allen, Paul R., 1133 B'way
Allen & Collins, 37 Liberty
*Almirall, Raymond F., 51 Chambers
Amabile, Frank, 2416 Hughes av
Ambrosius & Hess, 5 E. 42nd

***American Institute of Architects, N. Y.**
Chapt., 215 W 57th

Anable, Richard D., 3 E 28th
Anagnost, Wm., 2112 Lafontaine av
Andersen, Henry, 138 E 22d
Anderson, R. Napier, 63 5th av
Anderson, Walter B., 150 Nassau
Andrews, Frank M., Waldorf-Astoria
*Architectural League of New York, 215 W
Arcander, Arthur Co., 368 E. 149th 37th
*Atterbury, Grosvenor, 20 W 43d
Audsley, W. & G., 18 W 27th
Avollin, Hugo H., 961 Stebbins av
Ayres, Louis D., 156 5th av
*Babb, Cook & Welch, 3 W. 29th
Bacon, Henry, 160 5th av
Baer, Herbert M., 542 5th av
Baker, Hewlett S., 258 E. 138th
*Baker, Jas. B., 156 5th av
Balch & Moatz, 10 E. 33d
Ballantyne, Henry F., 244 5th av
Banuister & Schell, 69 Wall
Barber, Donn, 24 E 23d
*Barlow, Alfred E., 5 W 31st
*Barney, J. Stewart, 520 5th av
Barton, Geo. E., 225 5th av
Bates, Wm. A., 25 W 42nd
Baudesson, Udo S., 186 E 205th
Baxter, Chas. & Son, 2835 3d av
Baylles, Franklin, 34 Bible House
Beatty & Stone, 55 B'way
Beauley, Wm. J., Hotel Marie Antoinette
Beers, Wm. H., 5 W 31st
Bell, Algeron S., 320 5th av
Benedict, Ell, 1947 B'way
Benedict, Wm. K., 1133 B'way
*Benison, J. P., 571 5th av
*Berg, Chas. I., 571 5th av
Berger, Bruuo W. & Son, 121 Bible House
Berger, Richard, 309 B'way
Bernstein & Bernstein, 24 E 23d
Bessell, Wesley S., 1170 B'way
Betts, Edw. Stuart, 36 E 23d
Bird, Louis Frances, 156 5th av
Blrge, Charles E., 29 W 34th
Birkmire, Wm. H., 396 B'way
Bissell, Frank H., 503 5th av
Blondel & Du Fon, 503 5th av
Bloodgood, Wm. E., 475 5th av
Bluemer, Oscar, 18 E 34th
Blum, Geo. & Edw., 507 5th av
Blumenstein, Paul, 28 E 23d
Boehm, Geo. A., 7 W 42d
Boehmer, Arthur, 531 E. Tremont av
Boeckell, Julius, 147 E. 125th
Boese, John, 280 B'way
Bollmann, Wm., Jr., 1068 Jackson av
*Bonagur, Vincent, 789 Home
*Boring & Tilton, 32 B'way
Bosworth, Wm. W., 527 5th av
Bosworth & Holden, 1170 B'way
Boyd, Jno. D., 1123 B'way
Boyd, Wm. S., 561 Hudson
Boyland, Jno. P., 103 E 125th
†Brandt, L. & J., 271 W 125th
Braun, Frank, 1506 1st av
Brazier, Clarence W., 1133 B'way
Brendon, Chas. & Co., 500 5th av
Brewster, Herbert R., 116 Nassau
Brick, Samuel R., Jr., 1 B'way
Brite, Jas., 111 5th av
Brogan, Patrick F., 119 E 23d
Broome, Joseph, 123 Liberty
Brower, John, 1133 B'way
*Brown, Edwd. J., 889 E. 175th
*Brown, Fred'k C., 143 W 125th
Brnbaker, Samuel H. & Co., 50 Church
Brun, Clement B., 1 Madison av
*Brunner, Arnold W., 33 Union sq. W
Buchman & Fox, 11 E 59th
Buckham, Chas. W., 307 5th av
†Buckley, Richard W., 624 Madison av
Budd, K. C., 500 5th av
Buek, Chas., 500 5th av
Bunce, J. Oscar, 1 W 34th
Burley, Jas. L., 29 B'way
Busselle, Alfred, 1133 B'way
Butler, Lawrence S., 103 Park av
Butler & Rodman, 16 E 23d
Butterfield, Wm. H., 29 W 29th
Byers, Robt. M., 59 Pearl
Byrne, Edward J., 3025 3d av
Cable, Wm. Arthur, 43 W. 27th
*Cady & Gregory, 6 W. 22d
Caldwell, Chas. H., 160 5th av
Campbell, Jas. I., 976 Woodcrest av
Campbell, Shlras, 101 Park av
Campbell, Willfred A., 45 W 34th
Candler, Duncan, 30 E 21st
*Carpenter, James E. R., 475 5th av
*Carrere & Hastings, 225 5th av
*Casey, Edw. P., 1 Nassau
*Cashman, John R., 1 B'way
Caswell, Kenneth L., 1123 B'way
Cavlnato, C., 560 W B'way

*Chambers, Walter B., 35 Wall
Chance, Geo. W., 347 5th av
Chapman, Henry Otis, 334 5th av
Chapman, Howard, 1123 B'way
Chapman, Josephine W., 11 W 8th
Chapman, W. Osborn, 18 W 27th
Chappell, Geo. S., 345 5th av
Chappell & Bosworth, 258 B'way
Chard, Thornton, 39 W 38th
Chard, Walter G., 39 W. 38th
Chestersmith, Edw. B., 150 Nassau
Child, Edw. S., 17 State
Chipman, Charles C., 220 B'way
Cladin & Kent, 27 E 22d
*Clark, Chas. S., 445 E. Tremont av
Cleverdon & Putzel, 41 Union sq. W
*Clinton & Russell, 32 Nassau
Cobb, Henry Ives, 42 B'way
Cocker & Martin-Cooke, 2017 5th av
Coco, Peter M., 114 E 23d
Codman, Ogden, 569 5th av
Cole, Jas. W., 403 W 51st
*Colley, Chas. E., 154 Nassau
Colt, Stockton B., 39 W. 38th
Colton, Francis B., 18 W. 38th
*Congdon, Henry M. & Son, 18 B'way
Conover, Warren H., 232 W. 40th
Conrad, Henry, 310 Olmstead av
*Constable, Howard, 115 E 23d
Co-operative Architects, 17 State
Copeland, Harry L., 24 State
Corbett, Harvey Wiley, 122 E. 25th
Cornell, Frank T., 125 E 23d
Costello, Chas. A., 450 W 40th
Cottrell, W. Liance, 44 E 23d
*Covell, Wm. S., 1170 B'way
Cox, Jno., Jr., 156 5th av
Cram, Goodhue & Ferguson, 170 5th av
Cramer, Lester A., 56 Liberty
Crane, Theodore, 15 W 38th
*Cromwell, J. William, Jr., 225 5th av
Crosier, Geo. P. E., 223d nr White Plains
Cross & Cross, 527 5th av
Crow, Lewis & Wickenhoefer, 160 5th av
Cunherley, Leon, 1 Madison av
Cullen, Chas. H., 1493 B'way
Dana, Richard Henry, Jr., 103 Park av
Darrach & Beekman, 10 E. 33d
Daus & Otto, 130 Fulton
Davis, Albert E., 258 E. 138th
Davis, Edw. H., 1 Madison av
Davis, Richard R., 247 W. 125th
Davis, McGrath & Kiessling, 1 Madison av
*Deane, E. Eldon, 6 W 28th
Deery, Jno. Jerome, 23 W 24th
DeForrest, Lockwood, 20 W 12th
*De Gerdorf, Geo. B., 103 Park av
*De Hart, John, 1039 Fox
Dehli, Arne, 108 Fulton
Delano & Aldrich, 4 E 39th
Denby & Nute, 333 4th av
Dennis, Stanley A., 154 Nassau
Dennison, Ethan A., 475 5th av
De Sibour, Jules H., 527 5th av
Desrats, Geo. P., 113 E 19th
Devermann, Chas., 2300 Westchester av
Detwiller, Chas. H., 95 Nassau
Devoe, Henry M., 500 Park av
Dewsnap, Wm., 150 Nassau
Dietrich, Chas. Henry, 143 W 45th
Dietrich, E. G. W., 30 E 20th
Dillon, McLellan & Beadel, 1123 B'way
Dlithy, Wm. J., 3 Union sq. W
Dissoway, C. M., 150 Nassau
Ditmars & Brite, 111 5th av
Dodge, R. Irving, 333 4th av
Dodge & Morrison, 82 Wall
D'Oench & Yost, 289 4th av
Domnick, Wm. F., 3 W 29th
Donnell, Harry E., 225 5th av
Doughty, E. Crosby, 366 7th av
Dress, Geo., 1299 Brook av
*Du Fais, John L., 333 4th av
Duff, Thos. J., 407 W 14th
Duncan, Arthur M., 15 William
*Duncan, John H., 208 5th av
Ebbinghaus & Irving, East Gun Hill rd,
Williamsbridge
Ebeling, Bernhard, 2215 Westchester av
Ebeling, Fred., 420 E. 9th
*Eidlitz & McKenzie, 1123 B'way
Elsendrach & B. Horwitz, 500 5th av
Ellis, Edmund L., 1133 B'way
Ells, Irving B., 261 B'way
Embury, Aymar, 1133 B'way
*Emerson, Wm., 281 5th av
*Emery, M. L. & Hy. G., Bible House
Erkins, Henry M., 1455 B'way
Euell & Euell, 38 Manhattan
Ewing & Chappell, 345 5th av
Eyre, Wilson, 41 E 30th
Falk, Louis, 360 E 146th
Farnsworth, Jas. M., 489 5th av
Fearon, Francis G., 32 B'way
Feiser, Henry J., 150 Nassau
Felch, Walter L., 333 4th av

Fennen, Jos. D., 271 W 125th
Fenner, Burt L., 160 5th av
*Ficken, H. Edwards, 10 W 22d
Fischer, Adam E., 23 Park row
Fitch, Douglass, 1 W 34th
Flitz-Mahony, Michael J., 306 5th av
Flagg, Ernest, 35 Wall
Fletcher, Arthur G. C., 103 Park av
Ford, Stewart & Oliver, 103 Park av
Forman & Light, 40 Cedar
Foster, Gade & Graham, 281 4th av
Fouchaux, Henri, 105 Hudson
Fowler, J. Chandler, 132 Nassau
Franke, Julius, 298 5th av
Franklin Engineering Co., 346 B'way
Franklin & Ayres, 156 5th av
*Freedlander, Jos. H., 244 5th av
Freeman, Alfred, 320 5th av
Freeman, Frank, 132 Nassau
Freeman, Geo. A., 39 W 38th
Friend, Jno. H., 148 Alexander av
Frohne, Wm. C., 38 E 21st
Fuhrmann, Henry T. J., 43 W 27th
FULLERTON, CLARENCE A. (Spe-
cialties in Fireproof Interiors, Banks,
Offices, Public Buildings, etc.), 386 5th
av
*Gage, S. Edson, 3 Union sq. W
Gallauer, Edmund, 114 Nassau
Gardner, Robert W., 122 W 29th
Garvin, Michael J., 3307 3d av
*Gavigan, Jas. J. F., 1123 B'way
Geer, Wm. Lincoln, 109 E 14th
Gens, Chas., Jr., 165 E 88th
Gerber, Fredk A., 584 E 163d
Georgi, Edwin C., 603 E 83d
*Gibson, Robt. W., 103 Park av
*Gifford, Chas. Alling, 36 E 23d
*Gilbert, Bradford L., 1 B'way
*Gilbert, Cass, 11 E 24th
*Gilbert, Chas. P. H., 1123 B'way
*Gildersleeve, Raleigh C., 150 5th av
Giller, Louis, 416 B'way
Gillespie & Carrel, 1123 B'way
Gillette, Leon, 131 W 40th
Githens, Alfred M., 452 5th av
Glasser & Co., 70 Manhattan
Goldberg, Herman, 2968 Briggs av
Goldner & Goldberg, 702 Jackson av
*Goldstone, L. A., 43 W 34th
Gompert, Wm. H., 2102 B'way
*Gooch, Wm. Tyson, 34 William
Goodwillie, Frank, 1170 B'way
Gordon, J. Riely, 402 5th av
Gottlieb, Albert S., 156 5th av
Graham, Robert Dun, 281 4th av
Grand Central Station Architects, 314
Madison av
Grant, Chas. C., 156 5th av
Grauert, Emile W., 10 W 22d
Gray, Albert M., 1402 B'way
Greene, Ernest, 5 Beekman
Greenfield, Robert A., Customs House
*Greenley, Howard, 12 W 40th
Griebel, Geo. H., 2255 B'way
Grieshaber, Carl F., 4 E 39th
Griffin, Percy, 30 Church
Grimes, Marshall R., 39 E 42d
Gross, Arthur, 347 5th av
Gross & Kleinberger, 75 Bible House
Gurd, Jno. A., 281 5th av
*Haight, Chas. C. & Githens, 452 5th av
Hallery & Vulz, 1910 Webster av
*Hamilton, John A., 32 B'way
Hammond, Fred'k, 396 E 155th
Hanau, Carl, 198 B'way
Hanermann & Cherry, 103 Park av
Harde & Short, 3 W 29th
*Hardenbergh, Henry J., 47 W 34th
Harder, Julius, 31 W 31st
Hardy, Geo. P., 309 B'way
*Harney & Purdy, 320 5th av
Harris, Henry G., 3 E 17th
Harrison, Joseph Duke, 31 E 27th
Harrison & Sackheim, 230 Grand
Hart, Donald P., 3 W 29th
Hasenstein, Henry A., 192 Bowery
Hasselman, Francis G., 39 W 38th
Haug, Geo., 103 Park av
Hauser, John, 358 W 125th
Hausle, Frank, 81 E 125th
Hausle, Max, 81 E 125th
Hays, Jesse A., 2010 B'way
Hazlett, Wm. C., 1133 B'way
Healey, Henry J., 320 5th av
Hedman & Schoen, 25 W 42d
Heidelberg, Max G., 320 5th av
*Heins & La Farge, 30 E 21st
*Hemstreet, Wm. F., 156 5th av
Herling, Oswald C., 1 W 34th
Herts & Tallant, 113 E 19th
Hewitt, Edw. Shepard, 527 5th av
Hewlett, Wm. A., 156 5th av
Higginson, Wm., 17 Park row
Hill, Fred'k E., 346 B'way
Hill, Fred'k P., 1123 B'way

Hill & Stout, 1123 B'way
Hinchman, Jno. R., 437 5th av
Hinkle, Edw. F., 345 5th av
Hiss & Weekes, 1123 B'way
Hoar, Chas. N., 45 W 34th
Hoddick, August O., 126 Liberty
Hoefler, H. Wm., 898 8th av
Holden, Lansing C., 103 Park av
Holly, Henry, 39 W 27th
Holt & Weldinger, 3 E 28th
Hooper, Parker Morse, 527 5th av
Hopkins, Alfred, 11 E 24th
Hoppe, Chas. F., 103 Park av
Hoppin, Koen & Huntington, 244 5th av
Horenburger, Herman, 122 Bowery
Horenburger, Hermann, 422 E 159th
Horgan & Slattery, 41 W 33
Horn, Chas. E., 1440 B'way
Hornum, Louis A., 145 E 42nd
Hornum, W. H. C., 360 W 125th
Horsfall, W. H. A., 20 E 42d
Horwitz, Bernhard, 500 5th av
Hottenroth, Henry A., 347 5th av
How, Kenneth G., 25 W 42nd
Howard, H. W., Jr., 39 E 42d
Howe, Augustus, 120 Liberty
Howell, Harry T., 149th & Willis av
Howells & Stokes, 100 William
Howes & Morse, 19 E 38th
Huenenberg, William, 733 E 156th
Hulburt, Chas. C., 320 5th av
Hull, Washington, 16 E 23d
Hume, Wm. H., & Son, 3 Union sq. W
Hunt, Jarvis, 527 5th av
*Hunt & Hunt, 28 E 21st
Hunter, Paul C., 17 B'way
Hunter, Wesley D., 149 B'way
Huntington, Roht. P., 244 5th av
Huntington, C. P., 18 W 31st
Huntington, Chester, 32 Park pl
Huntley, C. E. & Co., 103 Park av
Huss, Geo. Martin, 65 Morningside av
Hutchinson, Robert C., 126 Liberty
Hutton, L. Percival, 37 Liberty
Hutton & Buys, 311 Madison av
*Ingle, John W., 527 5th av
Isaham, Arlington D., 132 Nassau
Israel & Harder, 31 W 31st
Jackson, Arthur C., 30 E 21st
Jackson, Jos. A., 1123 B'way
Jackson & Brown, 500 5th av
Jackson & Rosenerans, 1328 B'way
Jacobs, Harry A., 320 5th av
Jacobsen, Fred, 1204 B'way
Jallade, Louis E., 37 Liberty
Janes & Leo, 124 W 45th
Jardine, Kent & Jardine, 3 W 29th
*Jarmulowsky, Meyer, 105 E B'way
*Jennings, Arthur B., 41 Park Row
Johnson, Carl P., 8 E 42d
Jones, Chas. G., 280 B'way
Jones, Richard C., 280 B'way
Josselyn, Edgar A., 3 W 29th
Jossier, Paul J., 127 E 23rd
*Kafka & Lindenmyer, 37 E 28th
Kaiser, Fred'k, 2533 Frisbie av
*Kastner, Julius & Dell, 1133 B'way
Kaufmann, Edwin G., 110 E 23d
Kaufman, Lewis R., 110 E 23rd
Kearney, Jno. W., 1133 B'way
Keeler, Fred'k S., 27 W 33d
Keimig, Louis J., 29 B'way
Kehoe, Alfred L., 1 Beekman
Kellogg, Fay, 32 Union Sq. E
Kelly, Timothy J., 685 Morris Park av
Kendall, Wm. Mitchell, 160 5th av
Kent, Chas. N., Jr., 27 E 22nd
Kerby, John E., 481 5th av
*Kight, A. B., 1947 B'way
Killian, Wm. G., 110 E 23d
*Kimball, Francis H., 71 B'way
King, Beverly S., 160 5th av
Kirby, Jos. M., 2121 5th av
Kirby, Petit & Green, 103 Park av
Kirk, Chester H., 45 E 17th
Kissam, Henry Snyder, 37 Liberty
Knapp, Herbert J., 113 E 19th
Knapp, Horace Greeley, 5 E 42nd
*Knoche, Gottfried, 516 E 72d
Knowles, Harry P., 1170 B'way
Knowles, Wm. W., 1133 B'way
Knubel, John H., 318 W 42d
Koehler, V. Hugo, 489 5th av
Koelble, Henry A., 71 Nassau
Koelgsberger, F. H., 1 Madison av
Kohn, Robert D., 170 5th av
Koppe & Danbe, 830 Westchester av
Korn, Louis, 353 5th av
Krais, William, 452 5th av
*Kramer, Geo. W., 1 Madison av
Krauss, Otto C., Newbold & Unionport
Kuhne, Paul (Specialty Fireproofing), 147 4th av
Kurtzer, William, 194 Bowery
Lamb, Thos. W., 224 5th av
Lambert, Wm. A., 99 Nassau
Lang, Eugene J., 481 5th av
Lauritzen, Wm. C., 2010 B'way

Lawlor & Haase, 69 Wall
Lawrence, Warrington G., 225 5th av
Lawton, G. Marshall, 150 Nassau
*Le Brun, N. & Sons, Met. Life bldg
Lee & Hewitt, 1123 B'way
Leeming, Woodruff, 20 Broad
Lehibach, Edward, 31 Union sq. W
Lehmann, Edw. A., 1 Madison av
Leicht, Adolph F., 9 W 32nd
Leining, Lewis, Jr., 355 E 19th
Leo, John P., 770 St. Nicholas av
Leonard, G. Francis, 150 Nassau
*Leviton, Benj. W., 20 W 31st
Licht, Geo. A., 4 E 39th
Lion, Henry S., 12 W 32nd
Little & O'Connor, 5 W 31st
Livermore, Chas. F., 55 W 33d
Lloyd, Percival M., 109 Lexington av
Lohse, Christian F., 627 Eagle av
Loney, Fred'k R., 1123 B'way
Longyear & Hutchinson, 126 Liberty
*Lord & Hewlett, 345 5th av
Lowell, Guy, 225 5th av
Lowinson, Oscar, 18 E 42d
Lucas, Herbert, 5 E 42d
Luce, Clarence, 246 4th av
Ludlow & Peabody, 12 W 31st
Lyll, Earl Harvey, 2 W 33d
Lyll & McKee, 334 5th av
Lynch, Elliott, 341 5th av
Lyons, Robt. T., 1503 B'way
*McCabe, Geo. M., 96 5th av
McElpatrick, W. H., 1402 B'way
McElroy, Geo. L., 18 W 31st
McGiashan, Norman, 28 E 23d
McGrath, Dudley, 1 Madison av
*McGuire, Jos. H., 45 E 42d
McGuire, Milton H., 1123 B'way
McKenzie, Andrew C., 1123 B'way
McKim, Alex. R., 116 E 28th
*McKim, Mead & White, 160 5th av
McLellan & Beadel, 1123 B'way
MacKenzie, Clinton, 82 Beaver
Macintosh, Alexander, 55 Bible House
Magonigle, H. Van Buren, 7 W 38th
Maimone, A., 92 Christopher
Mainzer H. R., 170 5th av
Maicolm, Dan'l G., 569 5th av
Manning, Alfred J., 489 5th av
Mann & MacNeille, 12 E 45th
Mapes, Wm. T., White Plains rd nr 242d.
Marcus, Bertram N., 347 5th av Wakefield
Markowitz & Elliott, 32 Union sq
Marsh, David, 19 B'way
Marsh & Gette, 97 Nassau
*Marshall, Henry Rutgers, 3 W 29th
Martine, Angelo H., 1075 Woodcrest av
Marvin, Davis & Turton, 1133 B'way
Masquercay, Emmanuel L., 36 E 23d
Massarene, Wm. G., 1133 B'way
Mathesius, Fred'k. Jr., 103 Park av
Mathews, Chas. T., 281 4th av
Maurer, Louis C., 1495 B'way
Maynicke & Franke, 298 5th av
Mechan, Jas. F., Prospect & Westchester
Mellen, N. C., 45 W 34th
Merrick, Henry P., 1133 B'way
Merritt, Mortimer C., 58 W 31st
Mersereau, Wm. H., 32 B'way
Mertin, Adolph, 33 Union sq. W
Metcalfe, Fred L., 108 Fulton
Metcalfe, Louis R., 27 E 22d
Metcalfe, Mortimer H., 37 E 30th
Metzler, Julius C., 1123 B'way
Michel, Jno. G., 302 B'way
Miller, Chas. E., 111 Nassau
Miller, Geo. S., City Island av, City Id
Mills & Greenleaf, 345 5th av
Minuth, Fred'k A., 425 5th av
Moller & Smith, 107 Waverly pl
Montgomery, H. P. Alan, 59 Pearl
*Mooney, John B., 1511 3d av
Moore, Frank A., 569 5th av
Moore & Landsiedel, 3rd av & 148th
Morgan & Barkhausen, 30 Church
Morris, Albert, 103 Park av
Morris, Benj. Wistar, Jr., 345 5th av
Morris, Chas., 36 E 23d
Morris, Montrose W., 82 Wall
Morrison, Robert B., 82 Wall
Morrison & Carrier, 1328 B'way
Morse, Henry G., 19 W 38th
Moses, Lionel, 156 5th av
Mosley, Richard K., 1 Nassau
*Mott, Chas. T., 103 Park av
Mowbray, Wm. E., 1300 B'way
Mowbray & Uffinger, 56 Liberty
Muller, Max, 115 Nassau
Muliken & Moeller, 103 Park av
Murchison, Kenneth M., 320 5th av
Murphy, Henry Killam, 103 Park av
Murphy, John M., 302 B'way
Nash, Arthur C., 27 E 22d
Nash, Thos., 1170 B'way
Nast, Adolph E., 147 4th av
Necarsulmer, Edward, 507 5th av

Nelson & Vanwagenen, 15 W 38th
Neville & Bagge, 217 W 125th
Newman, Thos. L., 2164 Westchester av
Newman & Harris, 1123 B'way
Nicola, Andrew & Co., 81 Wash'n
Nichols, Geo., 82 Wall
Nitchie, John E., 150 Nassau
Nordheim, Henry, 1087 Tremont av
Norris, Albert F., 150 Nassau
Norton, Frank L., 1 Wall
O'Connor, Jas. W., 1123 B'way
Ogden, S. B. & Co., 954 Lexington av
Oliver, Leslie A., 129 E 17th
O'Meara, Jno. S., 100 E 83d
Orchard, Wm. H., 120 W 42d
Otto, Carl L., 130 Fulton
Palmer & Hornbostel, 63 William
Parish & Schroeder, 12 W 31st
Parker, Gordon S., 160 5th av
Parsons, Floyd Y., 1133 B'way
Parsons, Robert E., 3 Union sq. W
Payne, Wm. Arthur, 345 5th av
Pegler, E. J., 12 Beekman pl
Pelham, Geo. F., 503 5th av
Pell & Corbett, 122 E 25th
Pelton, Henry C., 10 E 33d
Penn, Fred'k W., 31 W 31st
Perkins, Frank E., 225 5th av
Pheips, Stowe, 20 W 43d
Phillips, J. H., 103 Park av
Phillips, Wm. S., 103 Park av
Phillips & Ingalls, 103 Park av
Plickering & Walker, 103 Park av
Pierson, Walter B., 72 Trinity pl
Pigueron, Wm. G., 32 Union sq
Pike, Gordon B., 151 W 23d
Pilcher & Tachan, 109 Lexington av
Pirner, Anton, 1656 Holland av
Plittman, Henry C., 27 E 22nd
Piatt, Chas. A., 11 E 24th
Platt, Fred'k P., 1123 B'way
Pollard & Steinhil, 10 E 33rd
Poole, Thos. H. Co., 13 W 30th
Pope, Jno. Russell, 527 5th av
*Porter, Albert V., 621 B'way
*Post, Geo. B. & Sons, 345 5th av
Potter, Wilson, 3 Union sq. W
Prager, Raphael, 149 B'way
*Price, Bruce & DeSibour (J. H. De Si-
bour), 527 5th av
Price & King, 311 Madison
Provot, George, 104 W 42d
Pryor & Day, 144 W 39th
Purdy, Wm. S., 320 5th av
Putzel, Jos., 30 E 62nd
*Quinby, Frank H., 99 Nassau
Radcliffe & Kelley, 3 W 29th
Radford Architectural Co., 178 Fulton
Rahmann, Wm. H., 103 Park av
Raymond, Wm. Oakley, 17 B'way
Reed & Stem, 7 E 42d
Regelmann, Henry, 133 7th
Reid, Chas. E., 105 E 14th
Relley & Stelnback, 481 5th av
Reissmann, Otto, 30 1st st
Remick, Arthur T., 3 W 29th
Renwick, Wm. W., 41 W 27th
*Renwick, Aspinwall & Tucker, 320 5th av
Rich, Chas. A., 320 5th av
Richardson, Wm. Symmes, 160 5th av
Richter, Chas. H., 68 Broad
Ritterhusch, Conrad, 156 5th av
*Robertson, R. H. & Son, 160 5th av
Robins & Oakman, 27 E 22d
Robinson, G. & Son, 15 Old B'way
Robinson, Jno. Beverly, 500 Park av
Robinson & Knust, 164 5th av
Rogers, Jas. Gamble, 11 E 24th
Rogers, Roht. E., 5 E 42d
Rogers, Wm. J., 1 Madison av
Rohl, Richard, 128 Bible House
Romeyn, Chas. W., 55 B'way
Rooke, Frank A., 489 5th av
Roos & Booraem, 120 Liberty
Rose, Charles Fred'k, 1 Madison av
Rosenberg, Ignatz I., 99 7th
Ross, Albert R., 16 E 22d
Ross, Arthur M., 347 5th av
*Ross & McNell, 39 E 42d
Rossbach, Erwin W., 2000 B'way
Rossiter, Ehrick, 15 W 67th
Rossiter & Wright, 110 E 23d
Roth, Emery, 18 E 42d
Rouse, Wm. L., 12 W 32d
Rousseau, Francis N., 1133 B'way
Rowe, Thos., 237 Lexington av
Sargent, Edw. A., 1 B'way
Sass, Samuel, 23 Park row
Satterlee, E. Lansing, 1123 B'way
Satterthwaite, Pennington, 27 E 22d
Saussez, Lucien, 308 W 129th
Sawyer, Philip, 156 5th av
Schaefer & Jager, 461 Tremont av
Scharsmith, Jno. E., 1 Madison av
Schellenger, Gilbert A., 9 W 31st
*Schickel & Ditmars, 111 5th av

Schmitt, Anthony F. A., 604 Courtlandt av
 Schnauffer, Wm., 363 E 149th
 Schumann, Chas. H., 280 B'way
 Schwanewede, Wm. F., 32 B'way
 Schwartz & Gross, 347 5th av
 Schwarz, Gustav, 302 E 158th
 Schweitzer & Diemer, 45 Leonard
 Scott, Walter, 31 Union sq, W
 See, Milton & Son, 6 W 22d
 Seifert, Karl F. J., 25 W 42nd
 Serracino, Nicholas, 1170 B'way
 Severeuce, Harold C., 500 5th av
 Shape & Bready, I E 42d
 Shepard, Augustus D., Jr., 36 E 23d
 Shepard, Ralph R., 19 W 38th
 Shirc, Edw. L., 110 E 23d
 Short, R. Thomas, 3 W 29th
 Simonson, B. Eustace, 315 5th av
 Slevin, Jas. F., 280 B'way
 *Slocum, S. Gifford, 1170 B'way
 Small, Franklin M., 265 B'way
 Smith, Bowen B., 104 W 42d
 Smith, C. Wellesley, 27 E 22d
 Smith, Edw. G., 220 B'way
 Smith, Fred'k G. C., 20 E 42d
 Smith, Henry A., 1181 B'way
 Smith, J. Andre, 103 Park av
 Smith, Oscar B., Jr., 344 4th av
 Smith, Peter, 69 Wall
 Smith, Wm. Nell, 20 W 33d
 Smith, Wm. Wheeler, 82 Wall
 Smyth, David W., 41 Liberty
 Smyth, Douglas, 2 W 129th
 Sneden, Arthur Durant, 1 Nassau
 Snelling & Potter, 37 E 30th
 *Snook, John B. Sons, 73 Nassau
 *Snyder, Chas. B. J., architect to Board of
 Education, 500 Park av

Sommerfeld & Steckler, 19 Union sq
 Spannhake, Otto L., 233 E 78th
 Spelman, John R., 125 E 23d
 Spitzer, Geo. W., 500 5th av
 Squires & Wynkoop, 44 Cortlandt
 Starrett, Goodwin & Van Vleck, 47 E 17th
 Steckler, Benjamin, 19 Union sq
 Stegmayer, Charles, 168 E 91st
 Stein, Theo. G., 1133 B'way
 Steinam, Jos. L., 10 E 33rd
 Steinmetz, Henry G., 1008 E 180th
 Stephenson & Wheeler, 18 W 27th
 Stern, Benj. E., 7 W 38th
 Stern & Morris, 103 Park av
 Sterner, Fred'k J., 164 5th av
 Stever, Arthur J., 55 B'way
 Stewart, Francis G., 103 Park av
 Stillman, Michael, 124 E 25th
 Stoddart, W. L., 31 Union sq, W.
 Stollwerk, Leo, 82 Beaver
 Stone, David, Bible House
 Stone, Fred'k S., 55 B'way
 Storm, Edwin R., 160 5th av
 Stoughton, C. W. & A. A., 96 5th av
 Strack, Otto, 220 E 23d
 Straker, Albert E., 17 B'way
 Straub, Chas. M., 147 4th av
 Straub, Frank, 122 Boverly
 Streeton, Geo. H., 103 Park av
 Strom, Wm., 39 Cortlandt
 Strong, Mason R., 7 Wall
 Strout, Wm. A., 81 Fulton
 Sturgis, Danforth, N. B., 18 W 34th
 Summerville, Foster M., 1 Madison av
 Sutton, Chas. M., 70 5th av
 Swasey, Wm. A., 47 W 34th
 Symonds, Wm. H., 23 W 24th
 Taylor, Alfred H., 138 W 65th
 Taylor & Levi, 24 E 23d
 Taylor & Mosley, 1 Nassau
 Teale, Oscar S., 35 B'way
 Thain & Thain, 4 E 42d
 Thinner, Jacob, Jr., 425 5th av
 Thom & Wilson, 1123 B'way
 Thompson, G. Kramer, 452 5th av
 Thompson & Frohling, 114 E 28th
 Thomson, Theo. E., 505 E Tremont av
 Thonard, Louis, 289 4th av
 Tillack, J. L. Theodore, 5 Beekman
 *Tilton, Edw. L., 32 B'way
 Toelberg, Niels, 1167 Fox
 Tompkins, John Almy, 20 W 43d
 Towner, Wm. T., 320 5th av
 Townsend, Steink & Haskell, 1328 B'way
 Tracy, Swartwout & Litchfield, 244 5th av
 Trowbridge & Ackerman, 114 E 28th
 *Trowbridge & Livingston, 527 5th av
 True, Clarence, 95 Liberty
 Trux, Fred'k N., 1170 B'way
 Tubby, Josiah T., Jr., 81 Fulton
 *Tubby, Wm. B., 81 Fulton
 *Tuthill, Wm. Burnett, 105 E 22nd
 Tuttle, Harry W., 150 5th av
 Ufer, Edw. W. F., 106 Morningside av, E
 Upjohn & Conable, 96 5th av
 Valentine, Chas. A., 344 4th av
 Van Auker, Geo. H., 30 E 14th
 Van Cleef, Henry C., 7 E 42d av

Vanderbent, Tunis J., 160 5th av
 *Van Pelt, Jno. V., 341 4th av
 Van Vleck & Goldsmith, 111 5th av
 Vaux & Emery, 68 Bible House
 Veruau, Harold D., 1 Beekman
 Vickers, Nathaniel W., 452 5th av
 Visscher, Theo. C., 425 5th av
 Voelker, John P., 979 3d av
 Volz, Chas., 160 5th av
 Von Wledenfeld, Hugo P., 29 W 42nd
 Waid, D. Everett, (and Consulting Archi
 tect), 1 Madison av

Wald & Willauer, 156 5th av
 Wainwright, Richard T., 40 Wall.
 Walgrove, Geo. M., 42 E 23d
 Walker, Jno. E., 3 Union sq, W
 Walker, W. Leslie, 20 W 43d
 Walker & Gillette, 131 W 40th
 Walker & Hazzard, 437 5th av
 Walker & Morris, 36 E 23d
 Wallace, Jos. H. & Co. (Industrial Arch. &
 Eng's), 5 Beekman

Wallis, Frank E., 1 Madison av
 Walther, John P. & Bartholomew, 145 E
 Ward, Frank F., 203 B'way 125th
 *Ware, Jas. E. & Son, 1170 B'way
 Warren, Chas. P., 20 W 34th
 Warren & Wetmore, 3 E 33d
 Warrington, Leslie G., 41 E 30th
 Watson, John C., 217 W 125th
 Webster, Daniel T., 160 5th av
 Wehrin, Edw., 309 B'way
 Weibler, Joseph, 180 E 114th
 *Weiher, Lorenz F. J., 271 W 125th
 Welch, Alex. McM., 11 E 42d
 Welch, Winthrop A., 3 W 29th
 Wells, Edmund B., 5 W 31st
 Wells, J. Hollis, 32 Nassau

Wengenroth, Fred'k W., 29 B'way
 Wentworth, Fred'k Wesley, 100 B'way
 Werner & Windolph, 27 W 33d
 Westervelt & Austin, 36 W 34th
 Wheeler, Dunham, 1 Madison av
 Wheeler, H. Herbert, 18 W 27th
 White, Benj. V., 110 E 23d
 Whitfield & King, 160 5th av
 Whiting, Frank P., 35 Wall
 Wilbur, Edwin, 120 Liberty
 Wilder & White, 156 5th av
 Wilkinson, Henry W., 114 E 28th
 Winkelman, Chas. F., 103 Park av
 Winterburn, Fred'k W., 32 Nassau
 Winters & Winckler, 47 W 34th
 *Wolf, Joseph, 103 Park av
 Wolfgang, Franz, 531 E Tremont av
 Wood, Donn & Deming, 122 E 25th
 Wood, Geo. E., 311 Madison av
 Wood, John A., 120 Liberty
 Wood, Arthur W. B., 1 Madison av
 Woolley, Jno., 15 E 11th
 *Wright, Frank M., 489 5th av
 Wulff, Chas. A., 569 5th av
 York & Sawyer, 156 5th av
 Young, Edw. Lee, 127 E 23d
 Young & Gronenberg, 1328 B'way
 Zimmermann, Albert G., 409 W 15th
 Zipkes, Maximilian, 353 5th av
 Zlot, Harry, 1400 5th av
 Zohel, Fred'k C., 114 E 28th
 Zubrin, Henry H., 163 E 114th
 Zuelch, Jno. J., 3414 Barker av

Borough of Queens.

COLLEGE POINT—Kraemer, Wm. H., 13th &
 7th av
 CORONA—Card, I. P., Grand av
 Lemmer, Fred'k, 11 Grenwell av
 Lobejager Chas. M., 38 Main
 Magnoni, Angelo, 113 Lincoln
 Schoeller, Andrew, 80 Montgomery
 Spicer, Chas. B., 2 Central av
 ELMHURST—Card, Isaac P., Union av
 Hendry, Chas., Trains Meadow rd n 4th
 EVERGREEN—Berger, Carl, 687 Cornelia
 Berger, Louis & Co., 298 St. Nicholas av
 FAR ROCKAWAY—Bogart, Albert J.
 Howard, Harry, 9 Mott av
 Lehman & O'Kane, Mott av & George
 Smith, Morrell, 252 Central av
 FLUSHING—Cliff, Christopher, 3 Main
 Collins, Horace, 316 State
 Johnson, Fred'k, 62 Farrington
 Kuhn, Jno. J., 58 B'way
 Kraemer, Wm. H., 71 B'way
 Parsons, Robert E., 40 Bowne av
 Richardson, Albert E., 97 Main
 Ross, H. H., B'way & 22d
 HOLLIS—Dreyer, Henry
 JAMAICA—Danmar, Wm., 5 McAuley pl
 Finn, Wm. A., 8 Herriman av
 Halliday, W. I., 326 Fulton
 Hausman, Nicholas W., 375 Fulton
 Little, Albert G., 357 Fulton
 Little, Harold G., 3 Herriman
 Tuthill & Higgins, 359 Fulton

LONG ISLAND CITY—Baker, John M., 85
 Chmelik, Frank, 796 2d Borden av
 Farland, Jos. A., 27 Cooper
 Hahn, Edward, 48 Wardell
 Hewitt, Chas. W., 95 Fulton
 Kaubisch, Jno., 421 Webster av
 Ohorne, Harry E., 9 Jackson av
 Powers, J. P. Co., 9 Jackson av
 Reidy, Michl J., 184 Main
 Rogers, James, 184 Vanalst av
 Sauermilch, Emil G., 395 Steinway av
 Selfert, Peter, 83 Graham av
 Sholl, Harry E., 603 7th av
 Sproesser, Frank, 179 Steinway av
 Tesseyman, Wm. H., 36 Hoyt av
 Wilkinson, Geo. T., 1039 Boulevard
 MASPETH—Rose, Edw., Summit pl & Fulton
 OCEANUS—Kennedy, W. T. & Co., 462 boul
 Smith, Wm. R., Dodge av c Surf av
 RICHMOND HILL—Andrews, Fm. R. H., 3405
 Jamaica av

Drake, Chas. M., 3112 Chichester av
 Haugaard, Henry E., Jamaica av & Maple
 Jeffrey, Hy. T., 140 Lefferts
 Moore, Thos. J., 468 Elm
 Murphy, John M., Spruce n Beaufort
 Vanderbeck, Chas. W., 2705 Jamaica av
 Van Deusen, Clarence R., 120 Vine
 WHITESTONE—Burner, Robt., 13th n 8th av
 Cooper, Gustavus A., 75 Whitestone av
 Relyea, Wm. H., 63 N 8th av
 WOODHAVEN—Jaeger, Louis, 170 Shaw av
 Lepage, Matthew, University pl

Borough of Richmond.

NEW BRIGHTON—Wlnans, Jno., Pelton av
 PORT RICHMOND—Bouton, Chas. E., 123 Rich-
 mond terrace
 Manley, Thos. W., 395 Richmond terrace
 Pelcher, Harry, 20 Richmond av
 Perkins, Thos. C., 26 Richmond terrace
 Whitford, Jas., 24 Richmond av
 STAPLETON—Copley, Fred'k, S., 339 Rich rd
 Otto, Henry G., 25 Jackson
 TOMPKINSVILLE—Loeffler, Otto, 68 Bay
 (End of New York City)

NIAGARA FALLS—Joralemon, E. E., 225 2d
 Larke, Simon, 608 Elmwood av
 Phelps, C. H., Gluck bldg
 White, Jas. R., Elderfield Hartshorn bldg
 Wright, Geo. W., Arcade bldg
 NORTHPORT—De Vean, John D.
 NORWICH—Cook, W. H.
 NYACK—Emery, Marshall L. & Henry G.
 Simonson, J. B.
 OCEANUS—(See New York City, Borough of
 Queens)

OGDENSBURG—Williams & Johnson
 OLEAN—Brickell, H. L.
 ONEIDA—Skinner, Theo. H.
 ONEONTA—Blend, L. H.
 OSWEGO—Seeber, John
 PALMYRA—Blahy, Joseph, Jarvis blk
 PEEKSKILL—Barker, Ashury
 Travis, Cyrus H.

PHELPS—McKinney, Corliss
 PLATTSBURG—Signor, R. L.
 PORT CHESTER—Minnerly, Harry S.
 Ponty, D. H., Jr.
 Gibley, J. A.
 Ward, W. A.

PORT HENRY—Curtis, John B.
 PORT JEFFERSON—Smith, W. I.
 PORT RICHMOND—(See New York City, Bor-
 ough of Richmond)
 POUGHKEEPSIE—Beardsley, Wm. J., 42 Mar-
 Carpenter, Du Bois, 45 Market ket
 Lloyd, Percival M., 39 Market
 RHINEBECK—Decker, R. A.
 RICHMOND HILL—(See New York City, Bor-
 ough of Queens)

RIVERHEAD—Blume, Edwin H.
 Skidmore, Geo. H.
 ROCHESTER—*Block, Otto, Wilder bldg
 Bragdon, Claude F., Cutler bldg
 Brockett, F. A., Cutler bldg
 Brockett, W. J., Powers bldg
 Byers, Matthew T., Exchange bldg
 Byers, Robert S., Central bldg
 Camp, F. S., Elwood bldg
 Crandall, Chas. F., E. & B. bldg
 Cutler, J. G. & J. W., Cutler bldg
 Fay & Dryer, 62 East av
 *Foote & Headley, Cutler bldg
 Gordon & Madden, 300 Sibley blk
 Hatton, Horace T., Cutler bldg
 Hirschfelder, C. M., Exchange bldg
 Hutchinson, Geo. F., Triangle bldg
 Larzelere, H. L., German Ins. bldg
 Lempert, Leon H. & Son, 31 Pearl
 Oberlies, Jos H., Granite bldg
 Otis, George T., Cutler bldg
 Pierce, Herbert W., 41 City Hall
 Platt, J. Mills, 921 Cham. of Com. bldg
 Salter, James A., 341 Granite bldg

Stern, Leon, Cham. of Com. bldg
 Tyler, Jas. R., E. & B. bldg
 Walker & Nichols, E. & B. bldg
 Warner, A. J., Powers bldg
 *Warner, J. Foster, 1036 Granite bldg
 Wengender, John, 22 Kelly

ROME—Kirkland, F. W.
 Schillner, G. C.

RYE—Wainwright, Richard T.

SAG HARBOR—Bessenden, W. A.
 Thomas, J. H.

SANDY HILL—Cunningham, Jno. J.
 McCarty, James

SARANAC LAKE—Coulter & Westhoff
 Scopes & Feustmann

SARATOGA SPRINGS—Breeze & Mallory
 Vaughan, F. G.

SAYVILLE—Green, Isaac H., Jr.

SCARBORO—Arnold, Clinton S.

SCHENECTADY—Davis, Edward L., Clinton st
 Finch, Oren, State & Jay
 Heidrich, Chas. A., 423 State
 Lindley, Arthur G. Co., Parker bldg
 Mynderse, W. T. B., 277 State
 Nichols, L. Rodman, 208 S Center
 Van Reusselaer, C. G., 175 Jay

SPRING VALLEY—Eickoff, O. S.

STAPLETON—(See New York City, Borough
 of Richmond)

SYRACUSE—Broekway, A. L., Syracuse Sav.
 Bank bldg
 Colton, Chas. E., Kirk bldg
 Conway, Merritt C., 322 Bastable
 Gaggin & Gaggin, University blk
 Ganung, Howard D., care Senet-Solway Co.
 Gillette, Thurber J., 311 Park
 Makepeace & Makepeace, Everson bldg
 Meehan, Jas. D., Hendricks bldg
 *Merrick & Randall, S., A. & K. bldg
 Phoenix, Harry D., Rosenbloom bldg
 Russell & King, Snow blk
 Taber & Baxter, O. C. S. Bank bldg
 Taylor, A. T., Syracuse Sav. Bank bldg
 Ward, W. W., Moyer Farm
 Wright, Gordon A., O. C. S. Bk bldg

TOMPKINSVILLE—(See New York City, Bor-
 ough of Richmond)

TOTTENVILLE—(See New York City, Bor-
 ough of Richmond)

TROY—Cummings, M. F. & Son, State B'k bldg
 Demers & Campaigne, Illum bldg
 Fielding, Harry P., 282 River
 †Hatch, Wm. N., 251 B'way
 Lee, Stanton P., 314 Cannon pl
 Loth & Millman, 253 B'way

UTICA—Ague, Rushmer & Jennison, 31 Arcade
 Cooper, G. Edw., 219 Genesee
 Frank, Walter G., 219 Genesee
 George, Richard A., 69 Genesee
 *Gouge, Fred'k H., 70 Genesee
 Hobbes, Jno. A., 191 Genesee
 Hubbard, Melvin H., 82 Arcade
 Kinne, Linn, 108 Genesee

WATERTOWN—Cooper, Madison Co. (Refrig-
 erating Engineers & Architects)
 Dewey, Chas. E., Bank bldg
 Eaton & Brownell (Specialty Mills)
 Griffin, J. W., Bank bldg
 Kleff, D. D., 24 Flower bldg
 Lansing, A. F., Solar bldg
 Littlefield, Henry B., 302 High

WEST NEW BRIGHTON—(See New York City,
 Borough of Richmond)

WHITE PLAINS—Brown, Frank Horton
 Hopkins, W. S.
 Moore, Jno. C.
 Petry & Sayward
 Purdy, T. Milton

WHITESTONE—(See New York City, Bor-
 ough of Queens)

WOODHAVEN—(See New York City, Borough
 of Queens)

WOODSIDE—Ferland, Jos. A., 157 Rester av

YONKERS—Brady, Wm. M., McLean & Alex-
 auder av
 Brown, Elliott L., Philipshurg bldg
 Chamberlain, G. Howard, 10 Getty sq
 Cowles, Geo. S., 8 Getty sq
 de Meuron, F. A., 87 Main
 Forsyth, Edw. A., 51 Warburton av
 Graham, Thomas, 23 Villa Park, Sherwood
 Park
 Grewy & Birmingham, 40 Warburton av
 Katz, Wm. P., 93 S B'way
 Phillips, Frank, 87 Morungside av
 Quick, Edwin A. & Son, 18 Getty sq
 Rayner, Geo. & Sons, 13 Warburton av
 Snyder, Wm. F., 1 Palisade av
 Van Suetendael, Arthur J., 15 N B'way
 Watson, Jas. A., Philipshurg bldg

NORTH CAROLINA.

ASHEVILLE—Lord, Wm. Henry
 Melton, Allen L.
 Smith & Carrier

CHARLOTTE—Asbury, Louis H.
 Biberstein, R. C. (Mill, Eng.)
 Bonfoy, F. L.
 Hook & Rogers
 Hunter & Gordon
 McMichael, J. M.
 Wheeler, Galier & Stern

DURHAM—Linthicum, H. C.

FAYETTEVILLE—Elsenschmidt, Robt.

GREENSBORO—Brewer, Wells L.
 Hopkins, J. H.
 Weston, F. A.

NEWBERN—Simpson, H. W.

RALEIGH—Barrett & Thomsou
 Hartge, C. E.
 Kellar, H. P. S.
 Kennedy, J. M.
 Simpson, Frank B.

WILMINGTON—*Konitz, H. E.
 Leitner, J. F.

WINSTON SALEM—Zimmerman, J. S.

NORTH DAKOTA.

ELLENDALE—§Brown, John A. & Martin
 †Mallory, William

FARGO—Beebe, M. E.
 Hancock Bros.
 Haxby & Gillespie
 O'Shea, A. J.

GRAFTON—Mott, J.

GRAND FORKS—De Remer, Jos. B.
 Edwards, W. J.
 Ross, J. W.

MINOT—Frost, R. T.

WHAPETON—Schuler Bros.

OHIO.

AKRON—Fichter, J. A., Akron Saving &
 Loan bldg
 *Ginther, Wm. P., Arcade bldg
 Harpster & Bliss, Central Savings Bank bldg
 *Henry & Son, 117 E Market
 Hulett, R. M., Flatiron bldg
 Lees, Wm. J., care of International Harves-
 ter Co.
 Mantz, N. A., 234 Spicer
 Moore Architectural & Eng. Co., Everett
 bldg

ASHTABULA—Wilson, Jno. L.

BOWLING GREEN—Brown, Homer C.

CANAL DOVER—Romig, S. A.

CANTON—Bostwick, J. M., 123 E Tuscarawas
 Epperson, W. S., Courtland bldg
 Tilden, Guy & Elmer A., Schaefer blk

CHILLICOTHE—Cook, John F.
 Schweltzer, John

CINCINNATI—Baldwin, Bert L. & Co., Periu
 bldg
 Bast, Adam J., 2132 Baymiller
 *Bausmith & Drainie, Johnston bldg
 Chapman, J. L., 2nd Nat'l Bank bldg
 Cordes, Fred H., Union Trust bldg
 Coyle, Joe, 812 B'way
 Crapsey & Lamm, Groton bldg
 Darrow Engineering Co., 1st Nat'l Bank
 bldg
 Davis, David, Fossdick bldg
 *Des Jardins & Sheblessy, 4th Nat. Bank
 bldg
 *Dittoe & Wisenall, Blymyer bldg
 Dornette, Edward H., Pickering bldg
 *Draeh, Gustave W., Union Trust bldg
 *Elzuer & Anderson, Ingalls bldg
 Fahnestock, L. W., Atlas Bank bldg
 Fasse, Chas., Peebles Corners
 Feckheimer, A. Lincoln, Andrews bldg
 Fisher, Martin, 2156 Central av
 *Foster, C. M., Johnston bldg
 Franklin, Wm. W., Commercial Tribune bldg
 Garber & Woodward, Andrews bldg
 Gilmore, Jas., 4th Nat. Bank bldg
 Glaser, Emile F., 1202 Vine
 *Godley, S. S., 803 Neave bldg
 *Hake, Harry, Andrews bldg
 Hall & Burroughs, 4th Nat'l Bank bldg
 Halsted, A. J., 1317 Main
 *Hannaford, S. & Sons, Hulbert blk
 Hayward & Cordes, Union Trust bldg
 James, Andrew R., Blymeyer bldg
 Jones, Robt. D., Neave bldg
 Kau, Max, Jr., 2241 Guy
 Kennedy & Adkins, 2nd Nat'l Bank bldg
 Kraemer, Geo. A., Pickering bldg
 Kuekert, Jacob H., 1713 Syeamore
 Kunz, Anthony, Jr., 955 W Court
 *McLaughlin, James W., Winton Rd &
 North Bend Rd
 Peacock, Samuel D., 10 E Commerce
 Pfeiffer, Philip G., 10 E McMillan
 Pills, Fred J., 964 W 8th
 Picket, Louis, 114 W Nixon
 Queen City Architectural Co., Mitchell bldg
 *Rapp, Zettel & Rapp, Johnston bldg
 Reed, Edw., Peebles Corners
 *Rieg, Anton, 2554 Vine
 Robinson, W. Stanton, Groton bldg
 Rodgers & Rhine, Johnston bldg
 Roebbing, Chas., 4th & Main

Rueckert, Emil G., 38 E McMeiken av
 Rueckert, Jacob J., Allen bldg
 Sax, Moritz, 4th Nat'l Bank bldg
 Sheppard, Gordon, Thoms bldg
 Siter, H. E., 322 Main
 Slocteuver, Jos. G. & Bro., cor Linn &
 Hopkins
 Smith & Heitmeyer, 1st Nat'l Bank bldg
 Steinkamp, Jos. G. & Bro., Mercantile
 Library bldg

Striker, John P., 612 W 5th
 *Taylor & DeCamp, Neave bldg
 *Tietlg & Lee, Lyric Theatre bldg
 Tlschler, Edw. R., Braeken rd, Westwood
 *Weber, C. C. & E. A., St. Paul bldg
 *Werner, Geo., St. Paul bldg
 Wood, J. M., Bradford blk

CLEVELAND—Badgley & Nieklas, 6110 Eu-
 clid av
 Baird, Fred'k, American Trust bldg
 Bates, Fred G., Cuyahoga bldg
 Beehler, P. Andrew, cor Rockway & De-
 troit
 Blackall & Page, Lennox bldg
 Bohm, G. B., Williamson blk
 Bohnard & Parsson, Chamber of Commerce
 Briggs & Nelson, Rose bldg
 Cameron, J. L., Schofield bldg
 Campbell, Ernest W., Schofield bldg
 Chapman & Chapman, Citizens bldg
 Cole, Chas. E., Colonial Arcade
 Cone, Harry A., Schofield bldg
 Corlett Engineering Co., Cuyahoga bldg
 Corning, Burt W., Schofield bldg
 Courter, Wm. H., 942 Prospect av
 Crabb, Robert, 7305 Cedar av S E
 Dercum & Beer, Schofield bldg
 Dutton, W. Stillman, New England bldg
 Dyer, J. Milton, Cuyahoga bldg
 Ehering, Jacob B., Wick blk
 Edwards, Arthur C., American Trust bldg
 *Elsenmann, John, The Arcade
 Ellis, Elhrldge, 1559 Penrose av S E
 Ferguson & Cameron, Schofield bldg
 French, A. A., Rose bldg
 Fugman, Godfrey, Chamber of Commerce
 bldg
 Garfield, Abram, Garfield bldg
 Gleihman, Morris M., Lennox bldg
 Griebel, Geo. A., Citizens bldg
 Hall, Wilbur M., Tenbush bldg
 Hamilton, Henry R. P., Schofield bldg
 *Hammond, Geo. F., 734 Euclid av
 Hartzell & Pettit, 1814 Euclid av
 Heiser, R. Arthur, Park bldg
 Hodges & Baneroft, Rose bldg
 Hodges, Wm. W., Rose bldg
 *Hopkinson, Chas. W., Rose bldg
 *Hubbell & Benes, Citizens' bldg
 Hubby, R. G., Caxton bldg
 Hubert, Ernest, 7018 Superior, N E
 Hulett, Ralph M., Lennox bldg
 Izant, Clarence S., Schofield bldg
 Janowitz, Albert F., 746 Euclid av
 Jansen, Wm. C., 942 Prospect av, S E
 Jeffery & Keller, Schofield bldg
 Kauffman, Arch'l Co., Caxton bldg
 Keller, Arthur E., Schofield bldg
 King, Geo. S., 746 Euclid av
 Klugsley, Wm. M., Rockefeller bldg
 Knox & Elliott, Rockefeller bldg
 Laist, Theo. F., Lennox bldg
 Le Baron & Gehhardt, 5703 Linwood av, N E
 Lehman & Schmitt, Garfield bldg
 Lorenz, Otto J., 5778 Portage av, S E
 McGrath, James P., Citizens bldg
 Matzinger, Paul, Lennox bldg
 Mead, William C., Rose bldg
 Meade, Frank B., Garfield bldg
 Naeye & Hynd, Western Reserve bldg
 Nevius & Smith, Rockefeller bldg
 Osborn Engineering Co., Osborn bldg
 Oviatt, A. N., 589, The Arcade
 Post, Geo. B. & Sons, Schofield bldg
 Powell, Wm. R., Hippodrome bldg
 Richardson, Edward A., 942 Prospect, S E
 Ritchie & Ruple, Chamber of Com. bldg
 Roberts & Abbott Co. (Inc.) (Railway),
 Schofield bldg
 Rudolph, Geo. E., 3823 Woodland av, S E
 Ruggles, Edward A., Rose bldg
 *Sabin, Wm. Warren, New England bldg
 Sanford, Harry W., Citizens bldg
 Schermann, Gustav, Schofield bldg
 *Schwelnfurth, Chas. F., New England bldg
 Scofield, Levi T., Schofield bldg
 Searles, Hirsh & Gavin, Schofield bldg
 Shaffer, M. T., American Trust bldg
 Shimmeln, Harlen E., Rose bldg
 Skeel, Albert E., Rose bldg
 Skeel, Frank D., Lennox bldg
 Smith, Edward E., Williamson bldg
 *Smith, Geo. H., Colonial Arcade
 Snyder, Andrew S., The Arcade
 Sprackling, A. E., O'Brien bldg
 Stapf, Otto K., Rose bldg
 Stedman, Chas. R., Superior bldg
 Steffens, Geo. H., Williamson bldg

Striebing, Frederic W., New England bldg
 Stuhr, Herman F., Rose bldg
 Swigert, Herbert, Central Trust bldg
 Tenbusch, Gerhard A., Tenbusch bldg
 Thomas, Lewis W., 942 Prospect, S. E.
 Tousley, Chas. E., 942 Prospect, S. E.
 Ulrich, Emil M., Schofield bldg
 Uthe, Chas. H., Williamson bldg
 Van Develde, Bernard F., 3118 W 25th, S W
 Vlnson, M. A., Citizens bldg
 Vorce Engineering Co., Perry-Payne bldg
 Walton, Curtis, Rose bldg
 Warner, Franz C., Citizens bldg
 Warner, Jno., 611 Eddy road
 Watterson & Schneider, New England bldg
 Wells, Marlon E., The Arcade
 Wertz & Willson, Lennox bldg
 White & Shupe, Schofield bldg
 Wyman, Chas. L., Citizens bldg
COLUMBUS—Bellows, C. W., 29 Ruggery
 Darst, Otto C., Brunson bldg
 Dauben, Jos., Eberly bldg
 Dawson & Holbrook, Outlook bldg
 Elliot, Fred'k W., Board of Trade bldg
 Gleichauf, F. S., New 1st Nat'l Bk bldg
 Goldsmith, Jacob S., Wyandotte bldg
 Gribben, J. Upton, Columbus Sav. & Trust
 Howard & Merriam, Capitol Trust bldg
 Howell & Thomas, Col. Sav. & Trust bldg
 Incho, C. L., Brunson bldg
 Jones, H. Chas., Desher blk
 Jones, J. A., Despatch Annex
 Jullan & Jullan, 576 N High
 *Linthwaite, H. A., Union Nat'l Bank bldg
 Maetzel, Henry & Co., American Savings
 Bank bldg
 Marriott & Allen, Hayden-Clinton Bank bldg
 Mills, P. B. & E., Board of Trade bldg
 Mills, Wilbur T., McCune bldg
 Overton, Geo. Elmer, 26 S 3rd
 *Packard, F. L., Hayden bldg
 Pruitt, Edw. E., Y. M. C. A. bldg
 *Richards, McCarthy & Bulford, Ruggery
 Rickett, E. H., Columbia bldg
 Riebel, David & Sons, New 1st Nat'l Bank
 Stribbling & Lum, 85 N High bldg
 Tremaine, Wm., Board of Trade bldg
CONNEAUT—Smith & Potter
DAYTON—*Dexter, Robert E., Canby bldg
 Freudenberger, Jno. F., Barney bldg
 Gerber, E. L., U. B. bldg
 Heathman, F. B., Davies bldg
 Herby Charles, U. B. bldg
 Mountstephen, Edw. J., McIntire bldg
 *Owens, Chas. S., Davies bldg
 *Peters, Herman & Brown, Reibold bldg
 Pretzinger, Albert, Reibold bldg
 Russ, W. E., Conover bldg
 Schenck & Williams, 591 Arcade
 Slover Bros., Canby bldg
 Sutter, Frank L., Louis blk
 *Williams, Chas. I., Callahan blk
DEFIANCE—Hale, J. I.
DELPHOS—Herrick, I. S.
 Trames, Henry
EAST LIVERPOOL—Calhoun, W. A.
 Fritz, A.
 Scott, A. W., Jr.
FINDLAY—Horn, Geo. J.
 Kramer, W. Lewis
FOSTORIA—Smith, F. M.
FREMONT—Johnson, Miss Alice C.
 Shively, S. H. & Son
GREENVILLE—Jackson & Son
HAMILTON—Barkman, Geo.
 French, Ransford M.
 Lingler, Wm. D.
 Mueller, Fred'k G.
HOME CITY—Drucker, Fred H.
IRONTON—Murray, T. S. & Son
JACKSON—Blugman, Fred E.
KENNEDY—Lindsay, J. R.
LANCASTER—Getz, W. F.
LIMA—Chaplin, John A.
 De Curtians, A.
 Leech & Leech
 McLaughlin & Hnlsken
 Matthews, B. F.
LOGAN—Magoon, M. A.
LORAIN—Ellis, C. O.
 Ford, Hamilton E.
 Gawn, J. D.
 Rlsman, Paul A.
 Prescott, Jno. H.
 States, W. T.
 Wrmser, H. O.
MANSFIELD—Hursh, F. B.
 Jones, Harlan
 *Redding, Vernon
MARIETTA—Decker, W. A.
 Hovey, George T. & Son
MARION—Sloan, J. J.
MARTIN'S FERRY—Green & Dayton
MASSILLON—Heckman, Chas. B.
MILFORD—Elliott, Chas. N.
MILFORD—Elliott, Chas. N.

NEWARK—Arbaugh, R. B.
 Carlisle, Fred H.
NEW LEXINGTON—Strosnider, Jess L.
NILES—Souder, C. P.
NORWALK—*States, W. T.
NORWOOD—Stewart, Jas. R.
PAINESVILLE—Thayer, Irwin W.
PIQUA—Bowdle, C. F.
PORTSMOUTH—Alger, A. B. & Sons
RAVENNA—Green, James
SALEM—Cameron, Albert
 Hutton, Finley
SANDUSKY—Shively, S. H. & Son
SPRINGFIELD—Cregar, Edw. F., 63 W High
 Dawley, Chas. E. & Bro., Bushnell bldg
 Drach, Gustave, Kelly bldg
 Gotwald, Robert C., Gotwald bldg
 Miller, Wm. F., Kelly bldg
 Miller, Wm. F., 27½ S Limestone
 Shilling, Wm. K., Bushnell bldg
STEUBENVILLE—Christie & Webster
TIFFIN—Hewitt, F. K.
 Nelcher, G. W.
TOLEDO—Aftel, Sidney, Ohio bldg
 Annin, Wm. H., The Spitzer
 Bacon & Huber, The Spitzer
 Becker, Bernhard, Gardner bldg
 Buer, J. L., 731 Balfe
 Dowling, Wm. R., 2121 Forest av
 Downey, J. A., The Nasby
 *Fallis, E. O., The Nasby
 Hunt, Wm. B., The Spitzer
 Johnson, A. W., The Spitzer
 Kimball, Wm. G., the Spitzer
 Lane, Louis, The Nasby
 Langdon & Hohly, Nicholas bldg
 Liebold, Herman A., 515 Jefferson av
 Matz, J. W., Hartford blk
 Mills, Geo. S., Gardner bldg
 Rheinfrank, G. B., Gardner Bldg.
 *Stine, David L., The Valentine
 Stophlet, Manfred, Ohio bldg
 Sturgis, A. Burnside, The Spitzer
 Thal, Edw., Drummond blk
 Thurstin, W. G., The Nasby
 Tschumy & Co., 108 Summit
 Wachter, H. W., The Nasby
 Walker, Forest E., 211 Main
 Welker, L. G., The Spitzer
WARREN—*Coe, Thos. R.
 Harwood, H. H.
 *Siddells, Byron T.
WILMINGTON—Shepherd & Son
 Vance, John P.
WINTON PLACE—Dittoe, Louis G.
 Werner, Geo. S.
WOOSTER—Power, S. A.
XENIA—Collins, A. C.
YOUNGSTOWN—Ellis, Wm. B., 28 E Federal
 Hengist, T. A., Diamond blk
 Judd, A. F., 141 E Federal
 *Kling & Zenk, 115 W Federal
 Miller & Ford, Dollar Savings Bank
 Ott, C. J., Wick Bank bldg
 *Owsley, Boucherle & Owsley, Maloney blk
 *Thompson, R. F., Central av sq & Wick
 Vaughn, George, 125 W Federal
 Wade, A. S., Stambaugh bldg
ZANESVILLE—Meyer, Harry C.
 Taylor, Judson P.

OKLAHOMA

ARDMORE—Breedlove, Wm. F.
 Tackett & Myall
 White, John B. & Co.
BARTLESVILLE—Babcock & Hart
CHICKASHA—Galbraith, T. J.
 McManus & Williams
 Oklahoma Architectural & Engineering Co.
DURANT—Stevens, W. A. & Co.
EL RENO—Vogel, J. W.
ENID—Crowell, A. A.
 Scifres, Z. M.
 Shaw, R. W.
 Trayer, Albert A.
GUTHRIE—Burdette & Moon
 Cotton, D. R.
 Weathers, P. H.
HOBART—McCanse, Wm.
HUGO—Glenn Bros.
LAWTON—Brodie, T. L.
 Jones, Jno. Ira
McALESTER—Bergeron, Narcisse
 Smith & Parr
 Walsh, Jeffrey J.
MUSKOGEE—Ashby, Radford & Nlemann
 Duffy, C. J.
 Farrell, Jno.
 McKibben & McKibben
 Ossenkop, H. F.
 Sudhoelter, Chas. H.
OKLAHOMA CITY—Bailey, Leonard H. & T.
 Coady, E. & Co.
 Collignon, G. W.

Fowler, W. M.
 Hawk, J. W.
 Hyde, Frank D.
 Layton & Smith
 Lobdell, Chas. R.
 Randall, J. Harry Co.
 Rocke, M. M.
 Turbyfill, W. F.
 Van Meter & Walsh
 Wells, Wm. A.
 Williams & Wells
SHAWNEE—Davis & Horne
 Flemming, J. E.
 Mitchell, J. P.
 Peters, E. J.
SAPULPA—Griffith, W.
 Kaufman, D. P. & Son
TULSA—Cann, W. A.
 Glanfield, J. J.
 Malcom & Moore
 Mathews, Lee
 Moore & Hugenin
 Oklahoma Architectural Co.
 Ruggles, L. H.
 Starr, John V.
 Winkler & McDonald
VINITA—Church, R. C.
WELEETKA—McKlemurry, L.
WOODWARD—Hulse, W. E.

OREGON.

ALBANY—Burggraf, C. H.
 Hand, W. R.
ASHLAND—Clark, F. C.
ASTORIA—Wicks, J. E.
BAKER CITY—Bennes, J. V.
 White, M. P.
CONDON—Wiuans, H. C.
DALLAS—Morrison, F. H.
EUGENE—Campbell, Wm. T.
 Free, Thos.
 Hensell, Y. D.
 Hunzicker, John
FOREST GROVE—Starrett, F. M.
HOOD RIVER—Jerome, Lewis & A.
 Simonton & Son
LA GRANDE—Slater, J. L.
 Thornton, C. R.
MARSHFIELD—Eddy, A. H.
 Turpen, W. S.
MEDFORD—McIntosh, J. A.
 Peutz, S. S.
 Perkins & Lyon
NEWBERG—Watkins, S. E. & Son
NORTH BEND—Dilley, B. F.
 Griffin, A. J.
OREGON CITY—White Bros.
PENDLETON—Howard, Theo. F.
PORTLAND—Bennes, Heudricks & Tobey,
 Labbe bldg
 Berudt, F. J., Sweetland bldg
 Browne, P. Chappel, Marquam bldg
 Camp, H. L., 94 Union av
 Claussen & Claussen, Board of Trade
 Dittich, Henry C., Worcester bldg
 Doyle & Patterson, 423 Worcester bldg
 Elkerton, G. H., 1633½ E 13th
 Ewart, A. C., Falling bldg
 Faber, A. H., Commercial bldg
 Fritsche, Wenzel, 1155 Belmont
 Goodrich & Goodrich, Fenton bldg
 Heft, Henry J., Lumber Exchange
 Henn, C. W., Fenton bldg
 Herald, A. G. & Co., 37 Raleigh
 Hockenberry, R. N. & Co., Washington Bldg.
 Horn, C. L., 250½ Madison
 Hubert, Derrick, Commercial bldg
 Jacobberger, Jos., Board of Trade
 James, C. A., 731 Thurman
 Johnson, C. B., 204 Mohawk
 Kable & Kable, Chamber of Commerce
 Kleemann, Otto, 30 Grand av, N.
 Knighton, W. C., Commercial Bldg.
 Kroner, Ernest, Worcester bldg
 *Lazarus, Edgar M., Board of Trade
 Legg, F. A., Ainsworth bldg
 Lewis, David C., Couch Bldg.
 Lewis & Lewis, 401 22nd, N
 McClaren, E. E., Lumber Exchange
 McKeen, David, 164 E. 12th
 MacNaughton, Raymond & Lawrence, Con-
 cord bldg
 Martin, Richard, Jr., DeKum Bldg.
 Morgan, W. L., Falling bldg
 Murray & Austin, 362 Wash
 Neer, DeLos D., 133¼ 1st
 Ray, Wm., 251 10th
 Robbins, C. C., Ainsworth bldg
 Schacht, Emil, Commonwealth bldg
 Travis & Wilson, Sherlock blk
 Whidden & Lewis, Corbett bldg
 Whitehouse & Honeyman, Worcester bldg
 Williams, D. L., Cham. of Com. Bldg.
 Wrenn, J. D., Board of Trade

ROSEBURG—Straw, Walter
SALEM—Pugh & Legg
THE DALLES—Crandall, C. J.

PENNSYLVANIA.

ALLEGHENY—(See Pittsburg.)

ALLENTOWN—Jacoby & Weishampel, Commonwealth bldg

Picken, Ephraim M., Allentown Nat'l Bk

Rube & Lange, 10 N 6th

ALTOONA—Millard, Julian

Rudolph, A. W.

Sholler & Hirsch

BEAVER—East, Wm. J.

BEAVER FALLS—Snyder, A. J.

BELLEfonte—Cole, Robert

BETHLEHEM—Biggin, Frederic Child

BRADDOCK—Richards, S. Colfax & Co.

BRADFORD—Brickell, E. F.

BUTLER—Foster, Wm.

CARBONDALE—Robinson, Jos. F.

CARLISLE—Brindle, A. N.

Wetzell, A. J.

CHAMBERSBURG—Kedgy, Franklin

Rhoades, M. R.

COATESVILLE—Thorne, Eldwin H.

COLUMBIA—Paules, Granville E.

CRAFTON—Prack, Bernhard H.

DUBOIS—Orner, Frank F.

Overdorf, Wm. H.

EASTON—Michler, Wm. M.

Morgenstern, Geo. A.

Stewart, John M.

ERIE—Cody, C. Paxton, Downing bldg

Frank, Jos., Scott blk

Lee, Jos., 2734 Peach

Meyers, A. F., Lincoln bldg

*Yard, J. W. & Son, 808 State

FRANKLIN—Brakeman, Harvey

Craig, Leland

Osborn, John

GLENDEN—North, Wm. F.

GREENSBURG—Sloan, W. G.

Truxell, Geo. H.

HANOVER—Myers, I. M.

HARRISBURG—Bernheisel, Chas. H., 5 N 2d

*Grove, Geo. H., 213 Walnut

Hamilton, Thos. H., 11 N Market sq

Kast, M. L., 204 Market

Lloyd, C. Howard, 216 Market

Opperman, Karl T., 29 N 2d

HAVERFORD—Baily, Wm. L.

Collier, Austin McD.

Evans, Allen

HAZLETON—Beck, Chas. O.

Luzerne Engineering Co.

HOMESTEAD—McClure, M. L.

Platt, D. S.

Rowlands, Jno. C.

Vernon, Arthur

JOHNSTOWN—Krueger, Geo.

Myton, W. R.

Reiche, Frank P.

Wild & Rodgers

KINGSTON—Lathrop-Emery Co.

KITTANNING—Simpson, Jno. T.

LANCASTER—Evans, Clifton, 28 S Lime

Evans, Melvern R., 112 N Queen

Rothenberger, D. M., 17 N Queen

Urban, C. Emlen, Woolworth bldg

LANSDALE—Bean, M. B.

Conover, Samuel S.

LANSDOWNE—Lewis, Edwin B.

LANSFORD—Edwards, John C.

LATROBE—Slack, P. S.

LEBANON—Euston, E. C.

Hauer, Harvey T.

Richter, A. A.

LEWISTON—Montgomery, Harry B.

McKEESPORT—Lindmans, Henry J.

Lohman, H. J.

Wilson, W. F.

MEADVILLE—Richard, P. H.

NEW CASTLE—Eckles, W. G.

Foult, S. W. & Son

Scheule, Andy

*Thayer, C. C. & A. L.

Wirsing, H. M.

NEW KENSINGTON—Brakeman, Harvey

Ellis, B. H.

NEWTOWN—Chamberlin, James B.

NORRISTOWN—Hendricks, O. R.

OIL CITY—Brenot, Joseph P.

Charles & Bally

PHILADELPHIA—Adams, Alex. M., 1012 Walnut

Adams, Clyde S., 1233 Arch

Allen, John D. Co., Betz bldg

Baily & Bassett, 421 Chestnut

Baker & Dallett, 1629 Chestnut

Balderson, Chas., 411 Walnut

Ballinger & Perrot, 1211 Arch

Barnes, Amos W., 134 S 9th

Barthmaier, Eugene V., 3119 N Broad

Beale, Dan'l S., 3102 N 16th

Bennett, Thos. F., Betz bldg

Berger, Carl P., Penn sq bldg

Bertolette, Edw. F., West End Trust bldg

Bissell & Sinkler, Bailey bldg

Blauvelt, Henry J., Mariners' & Merchants'

Blithe, Wesley L., 608 Chestnut bldg

Boggs, Edw. T., 136 S 4th

Bolton, Chas. W. & Son, Witherspoon bldg

*Boyd, D. Knickerbocker, 15th & Walnut

*Boyd, Lawrence V., Harrison bldg

Boyle, Rowland W., 1626 Chestnut

Brockie & Hastings, 328 Chestnut

Bunting & Shrigley, 603 Chestnut

Caldwell, Francis G., 1533 Chestnut

Catharine, Irwin T., 1614 Christian

*Chandler, Theophilus P., 328 Chestnut

Churchman, C. Wharton, 1309 Walnut

Clark, Harry A., 602 S 60th

Coneys, Jno. L., 15th & Walnut

Cope & Stewardson, 320 Walnut

Coyle, Jos. S., 622 Filbert

Crump, Henry J., Colonnade Hotel

Cummiskey, Chas. J., 243 W Haines, Gtn

Cutler, Albert, 614 Chestnut

Dagitt, Henry D., 411 Walnut

Davis & Davis, 1600 Chestnut

Day, Frank Miles & Bro., 925 Chestnut

Deacon, C. H., 3046 Colona

De Armond & Ashmead, 618 Chestnut

Deery, Jno. J., Betz bldg

De Moll, Carl, 282 W Rittenhouse, Gtn

Dilks, Albert W., Mutual Life bldg

Dobbin, Geo. F., 8341 Gtn av

Dodge & Day, Drexel bldg

Dotbard & Dohard, 243 S 4th

Duhring, Okie & Ziegler, Bailey bldg

Dull, Jno. J., Witherspoon bldg

Durand, Edwin F. & Son, 1200 Chestnut

Durham Bros., Heed bldg

Erskine, Richard, Bailey bldg

Evans, F. Hopkinson, 910 S St Bernard

Evans & Bright, Roger Williams bldg

*Eyre, Wilson, 929 Chestnut

Fernald, Jas. C., 5533 Wyalusing

Fetterolf, Edwin H., Weightman bldg

Fielding, Mantle, 518 Walnut

Folsom, Crowe & Stanton, Drexel bldg

Frankenfield, Jacob K., 1030 Mounmouth

Furber, Wm. C., 416 Walnut

Furness, Evans & Co., Provident bldg

*Gardner, Clarence, Penn Mutual Life Ins Co bldg

Gill & Mercer, Drexel bldg

Halleck & Bretherick, 411 Walnut

Hannum, Chas. H., 114 N 11th

Harris, Clinton G., 137 S 5th

Hartmann, Emil H. & Co., 514 Walnut

Hartman, Harry, 514 Walnut

*Hazelhurst, Edward, 1433 Chestnut

Heacock & Hokanson, Bailey bldg

Hearst, Geo., 5437 Morris, Gtn

Herold, Jacob, 932 N 11th

Herold, Otto, 2536 N 33d

Hewitt, G. W. & W. D., Bullitt bldg

Hewitt, Stevens & Paist, Bullitt bldg

*Hickman, Louis C., 328 Chestnut

*Hillman, Chas. L., Provident bldg

Hinderman, Carl, 3429 Walnut

Hoffman, Chas. L., 911 Walnut

Holland, Leicester B., 2006 Chestnut

Holman, E. Elizabeth, 1020 Chestnut

House, Jno. H., Jr., Crozer bldg

Huston, Joseph M., Witherspoon bldg

*Huttou, Addison, Stephen Girard bldg

Jackson, J. Elvin, 719 Walnut

Jackson, Wm. E., 927 Chestnut

Jeffries, Joshua C., Mutual Life bldg

*Johnson, Lindley, Harrison bldg

Johnson, Philip H., Land Title bldg

Jungels & Anderson, Drexel bldg

Keen, Chas. Barton, 1220 Chestnut

Keisker, F. H., Perry bldg

Kelsey & Cret, Weightman bldg

*King, Guy, 1513 Walnut

Kley, Percy A., 1535 Chestnut

Kocle, Speth & Co., 2601 Oxford

Kuhn, Peter, 3058 N 8th

Lacey, Adin Benedict, 1012 Walnut

Lee, Valentine B., 929 Chestnut

Letzgus, Anton A., Bailey bldg

Loos, Richard C., 1017 Chestnut

*Lovatt, George I., 418 Walnut

Lueders, Chas. W., 475 N 4th

McAuley, Wm. J., 821 N 41st

McIlvain & Roberts, Land Title bldg

Mellvaine, J. Gilbert, 929 Chestnut

*Macomb, Hy. A., 717 Walnut

*Mason, Geo. C., Drexel bldg

Medary, Milton B., Jr., 1414 S Penn sq

Medoff, Barnett J., 518 Spruce

Meller & Megis, Lafayette bldg

Miller, Herman, Crozer bldg

Milligan & Webber, 520 Walnut

Mills & Vankirk, Harrison bldg

Molitor, John, 1309 Walnut

Morris, Geo. Spencer, Stephen Girard bldg

*Moses, Arnold H., 136 S 4th

Nashold, Jacob, 514 Walnut

Nattress, Geo. & Son, 1129 Walnut

Newhall, Geo. M. Engineering Co. (Ltd.), 136 S 4th

Newman & Harris, 1414 S Penn sq

Nock, E. Witherden, 60th & Market

Oelschlager, Chas. E., Harrison bldg

O'Neill, Frank, Jr., 36 S 21st

Ord, Jno., 3202 Arch

Pacey, Robert, 1929 Rowan

Page, Chas. C., 1420 Chestnut

Page, Geo. B., Harrison bldg

Paist, Phineas E., 1709 Chestnut

Parry, Oliver R., 1723 Chestnut

Paxson, Edw. S., 729 Walnut

*Pearson, George T., 427 Walnut

Peddie, Chas. R., Bullitt bldg

Perot, Robeson Lea, Bailey bldg

Peuckert, Kurt W., 310 Chestnut

Phillips, Watson K., 430 Walnut

*Plack, W. L., 1208 Chestnut

Plowman, Rush A., Witherspoon bldg

Potter, W. Woodburn, 137 S 5th

Prentzel, David A., Sherman & W Johnson, Gtn

Price, Walter F., 714 Walnut

Price & McLanahan, 1624 Walnut

*Pritchett, Wm. C., 420 Walnut

*Pursell, Isaac, 119 S 4th

Rahn, C. E., 410 Walnut

Rankin, Kellogg & Cranc, 1012 Walnut

Rehfuess, Geo. U., 26 S 15th

Reinhold, Henry L., Jr., 10th & Sansom

Richards, Thos. W., 4812 Fairmount av

Roberts, Spence, 26 S 15th

Rommel, Frank A., Weightman bldg

Rush, Louis H., Mutual Life bldg

Sansom, E. M., 518 Walnut

Sauer & Hahn, 1112 Chestnut

Savage, Geo. E., Provident bldg

*Savery, Sebeetz & Savery, Stephen Girard bldg

*Schermerhorn, Clarence E., 430 Walnut

*Seeler, Edgar V., Real Estate Trust Co bldg

*Sellers, Horace W., Stephen Girard bldg

*Shirk, J. C. M., 421 Chestnut

Simon & Bassett, 1112 Chestnut

*Smedley, Walter, Stephen Girard bldg

Smith, W. Frisbey, 13

De Arment, Frank H., Fulton bldg
De Bobula, Titus, Frick bldg
Dickinson, M. H., 217 9th
Denick, E. V., House bldg
Egli, Jacob, 22 N Diamond, N S
Emanuel, Jas. G., 407 4th av
Emmerling, J. F., 209 Roup
Estep, Harry S., 209 9th
Esterhammer, Geo., Fulton bldg
Felket, Frank, 413 4th av
*Gilchrist, H. D., Frick bldg
Gunn, C. A., 293 Dithridge
Hall, S. A., House bldg
Hannah, Thos., Kessan bldg
Heckert, Sidney F., Stevenson bldg
Herron, Thos. J., 209 9th
Hodgdon, C. W., Penn bldg
Hodgdon, Geo. & Son, 333 4th av
Hodgens, H. Childs, Empire blk
Irwin, Paul W., 309 9th
Janssen & Abbott, 9th & Liberty av
Kauffmann, William, Lewis blk
Kelm, J. Edw., 3945 Brighton Rd, N C
Kiehn & Elliott, 209 9th
Krapf, Henry M., 217 9th
Lang, E. B. & Bro., House blk
Lloyd Bros., Lewis blk
Long, John & Son, Machesney bldg
MacClure & Spahr, Keystone bldg
McCollum & Dowler, Berger bldg
McKee, T. C., Arrott bldg
McMaster, Andrew, Curry bldg
McMaster, Jennie K., Penn bldg
Marsteller, S. A., 246 3d av
Mazer, Jacob, Bakewell bldg
Mentel, C. G., 422 Federal, N S
Miller, A. K., Penn bldg
Miller, D. Knox, 237 4th av
Neal, Joseph L., 215 4th av
Nirdlinger, Max, Diamond Bank bldg
*Orth, Geo. S. & Bros., 341 6th av
Osterling, F. J., 316 4th
Page, Oliver O., 238 4th av
Palmer & Hornbostel, Empire bldg
Peoples, U. J., Magee bldg
Rieger, Chas. J., 307 4th av
Rousseau, Marius, Magee bldg
Rousseau, S. L. R., 307 4th av
Rutan & Russell, Magee bldg
Sanderson, Edw. T., Empire bldg
Sauer, F. C., 804 Penn av
Schellentrager, E. J., Fulton bldg
Schwan, Geo. H., 323 4th av
Scott, T. H., Machesney bldg
Shaw, Wm. J., Century blk
Simpson & Schmeltz, Wabash bldg
Sims, Wm. H., 5415 Black
Snaman, Wm. E., Empire bldg
Steen, James T., Fulton blk
Stevens, Louis, 238 4th av
Stillburg, Joseph, 421 Wood
Stolte, Fred'k H., Park bldg
Stotz, Edward, 213 6th av
Struthers, W. F., 209 9th
Thomas, W. A., Park bldg
Topp, O. M., Empire bldg
Trimble, R. Maurice, Ferguson bldg
Vrydaug & Wolfe, 347 5th av
Wilkins, W. G. Co., Westinghouse bldg
Williams, Chas. E., 422 5th av
Willoughby, Chas. E., 424 4th av
Winkler & MacDonald, House bldg
Wyckoff, A. W. Co., Farmers' Bank bldg
Wyss-Thalman, Vincent, Wabash bldg
Zortman, Wm. N. N., 238 4th av
PITTSBURGH—Davey & Crowther
Derheimer, A. E. R.
POTTSVILLE—Mould, C. T.
Hill, Wm. D.
Reilly, Frank X.
READING—Brown, D. F., 50 N 11th
Fink, W. A., 426 Franklin
Gerhard, G. L., 619 Penn
Lance, L. D., 540 Court
Muhlenberg Bros., 2d Nat. Bank
Scholl & Maurer, 35 N 6th
Smith, Alexander F., Baer bldg
Stetler & Mengle, W'msg
ROCHESTER—Earl Bros.
ROYERSFORD—Poley, Vincent R.
SCRANTON—Blackwood & Nelson, 136 N Wash'n av
Brown, Fred'k L., Price bldg
Davey & Crowther, Coal Ex. bldg
Davis, Edw. H., Connell bldg
Duckworth, Jno. A., 44 Coal Ex. bldg
Edson, Gilbert N., Connell bldg
Hancock, Lewis, Jr., Coal Ex bldg
Hartman, Albert, 745 N Irving av
Lacey, B. T., Connell bldg
Lancley, Edw., Connell bldg
Morris, Percival J., Amsden bldg
Reisman, L., Dime Bank bldg
Rutherford, Herman C., Pauli bldg

Snyder, Robert W., 110 Wash'n av
Weinechenk, Arthur A., 110 N Wash'n av
SHAMOKIN—Jury, W. U.
Schwartz, Wm. H.
SHARON—Clepper, E. E.
Taylor, F. O.
SLATINGTON—Oplinger, G. T.
SOUTH BETHLEHEM—Leh, A. W.
SWISSVALE—Milligan, Chas. W.
UNIONTOWN—Cooper, A. P.
Fulton, J. C.
Jamison & Harmon
WARREN—Gruninger, F. H.
†Marston & Howard
WASHINGTON—McCollum, J. M.
Vester, J. W.
WAYNE—Gugert, Francis A.
Shaw, J. William
WAYNESBORO—Buhrman, Chas. F.
Good, Daniel F.
Woltz & Porter
WAYNESBURG—Fuller, Fred K.
WILKES-BARRE—Kleemann, Otto A., 28 S Main
Knapp, John B., 15 S Franklin
McCormack & French, 2nd Nat'l Bank bldg
McGlynn, Owen, Simon Long bldg
*Olds & Puckey, Coal Exch. bldg
Pettebone & Ireland, 2d Nat. Bank bldg
Podmore, Thos., Bennett bldg
Reilly & Schroeder, Bennett bldg
Welsh & Sturdevant, Coal Ex. bldg
WILKINSBURG—†Dudgeon, A. & Son, 900 Wood
Milligan, Chas. W., Carl bldg
Milligan & Miller, Franklin st
Scheibler, F. G., Jr., 700 Wood
WILLIAMSPORT—Fisher, Mahlon L., Jamison
Litzleman, T. J., 4th & Loral
Reitmeier, T. P., 360 Market
Ritter, M. B. Co., 17 W Market sq
YORK—*Dempwolf, J. A.
Hamme & Leber
Keyworth & Co.
McClymont, Jas. H.
Stair, Robert A.
*Willis, B. F.

RHODE ISLAND.

CENTRAL FALLS—Desvoyunx, Helia L.
ORANSTON—Trice, Anthony F.
NARRAGANSETT PIER—Kent, Willard
NEWPORT—Easton, Roland J., 201 Thames
Johnston, John D., 69 Mill
Newton, Dudley
Smith, Jas., 20 Bath rd
Stevens, Joseph G.
Drowne, Fred E.
Humes, Albert H.
Learned, Chas. H.
Monahan, R. C. N.
Page, George H.
Seabury, Dwight (Mill Arch. & Eng.)
PROVIDENCE—Adams, J. Howard, 72 Weybosset
Almy, Arthur Lewis, 19 College
Angell & Swift, 87 Weybosset
Banning & Thorntou, 87 Weybosset
Barrows & Pierce, 87 Weybosset
Burlingame, C. E., 87 Weybosset
Cady, Jno., Hutchins Banigan bldg
*Clarke, Howe & Horner, 72 Weybosset
Cooper & Bailey, 87 Weybosset
*Ely, Edw. F., 32 Westminster
Gould & Hall, 146 Westminster
Hall, C. A., 371 Broad
Hill, Arthur E., 75 Westminster
*Hilton & Jackson, 75 Westminster
*Hopkin & Field, 32 Westminster
*Isham, N. M., Banigan bldg
Langworthy, Leslie P., 37 Weybosset
Makepeace, C. R. & Co., 429 Butler Ex.
Martin, B. S. D., Industrial Trust bldg
Martin & Hall, Union Trust bldg
Murphy, Hindle & Wright, 146 Westminster
Page & Page, 87 Weybosset
Phillips, Lemuel O., 15 Camden av
Praray, Chas. A. M. & Co., 48 Custom
Robertson, W. T., 49 Westminster House
*Sawtelle, F. J., Wilcox bldg
Shaw, Jas., Jr., 17 Arlington av
Shurrocks, A. F., Wilcox bldg
Slocumb, Harry A., 48 Benefit
*Stone, Carpenter & Sheldon, 49 Westminster
Thornton & Thornton, 152 Weybosset
Walker, Wm. R. & Son, 17 Custom House st
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Menominee Elec. Mfg. Co. (For Telephone & Telegraph), Menominee, Mich.

Michigan Elec. Specialty Co. ("Lac-M," for Telephone & Telegraph), Muskegon, Mich.

Minnesota Electric Co. ("Chapman," for Light, Power & Telephone), Minneapolis, Minn.

North Electric Co. (For Telephone & Telegraph), Cleveland, O.

Railroad Supply Co. (For Telephone & Telegraph), Chicago, Ill.

Railway Specialty & Supply Co. ("Arc Damp," for Telephone & Telegraph), Chicago, Ill.

Sterling Electric Co. ("Ledic," for Telephone & Telegraph), Lafayette, Ind.

Stevens Mfg. Co. (For Light & Power), Woodbury, N. J.

Sumter Telephone Mfg. Co. ("Mason," for Telephone & Telegraph), Sumter, S. C.

Tornquist Electrical Mfg. Co., Moline, Ill.

Viaduct Co. (For Telephone & Telegraph), Re-lay, Md.

Vote-Berger Co. (For Telephone & Telegraph), La Crosse, Wis.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

HENDRICKS' COMMERCIAL REGISTER
IS NOT A CATALOG OF ADVERTISERS ALONE, BUT A COMPLETE
REGISTER OF THE MANUFACTURERS
AND JOBBERS IN EVERY LINE OF TRADE
THAT COMES WITHIN THE SCOPE OF
THE WORK.

Western Telephone Mfg. Co. ("H-C-D," for Telephone & Telegraph), 42 W Jackson boul, Chicago, Ill.
WESTINGHOUSE ELECTRIC & MFG. Co. (For Light & Power), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Woolley Electric Co. ("Woolley" Type C. C., for Light & Power), Clayton, Mo.

Arresters (Spark, Electric)

BOLLES, J. E. IRON & WIREWORKS. Detroit, Mich. (See adv. index, end of book)
 Brady, T. H. (Electric Lamp), New Britain, Conn.
 Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.
 McLeod, Ward & Co., 27 Thames, New York
 Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.
 South Bend Spark Arrester Co., South Bend, Ind.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Arresters (Spark, Locomotive, Traction Engine, etc.)

American Machinery Co., 528 Canal, New York
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
 Casey-Hedges Co., Chattanooga, Tenn.
 Hendrick Mfg. Co., Carbondale, Pa.
 Honhorst, Joseph Co., Cincinnati, O.
 Howell, R. R. & Co., Minneapolis, Minn.
MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
 Pope, E. M., Watertown, S. D.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
 Sly, W. W. Mfg. Co., Cleveland, O.
SMITH, F. P. WIRE & IRON WORKS. 100 Lake, Chicago, Ill. (See adv. index, end of book)
 South Bend Spark Arrester Co., South Bend, Ind.
TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)
 Westinghouse Co., Schenectady, N. Y.

WRIGHT WIRE CO. (Locomotive), Worcester, Mass. (See adv. index & branch offices, end of book)

Arseniate

Grasselli Chemical Co. (Of Lead), The Arcade, Cleveland, O., & 63 Wall, New York
 Penna. Salt Mfg. Co. (Soda), 115 Chestnut, Philadelphia, Pa.
 Shaw, Jno. & Co. (Soda), Boston, Mass

Arsenic (Red & White)

Beer, Sondheimer & Co., 42 B'way, New York
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

Art Metal Work

(See Grilles, Brass & Bronze; also Grilles, Wrought Iron)

Artificial Stone Sidewalks

(See Cement & Concrete Pavements)

Asbestine

Whittaker, W. H., 245 Front, New York

Asbestos Building Lumber

Alignum Asbestos Lumber Co., 39 Cortlandt, New York, Works South River, N. J.
AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)
 American Hydrolith Co. ("Eterno"), 103 Park av, New York
 Asbestos Wood Co. (For Building Construction, Sheets, Sheathing, Roofing, Siding, Electrical Purposes, etc.), Nashua, N. H.
 Carey, Philip Mfg. Co., Lockland, Cincinnati, Ohio
 Johns, H. W.-Manville Co. ("Transite"), 100 William, New York
 Keasbey & Mattison Co., Ambler, Pa.

Asbestos Cloth

(See Asbestos Textiles)

Asbestos (Corded Fibre)

Johns, H. W.-Manville Co., 100 William, New York

Asbestos Corrugated Sheathing (Reinforced)

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
 Keasbey & Mattison Co. (Reinforced with Woven Wire), Ambler, Pa.

Asbestos Coverings

(See Pipe & Boiler Coverings, Asbestos)

Asbestos (Crude & Fibre)

(See Asbestos Miners)

Asbestos Felting Mfrs.

Carey, Philip Mfg. Co., Lockland, O.
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Ehret Magnesia Mfg. Co., Land Title bldg, Philadelphia, Pa.
 Franklin Mfg. Co., Franklin, Pa.
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co., Ambler, Pa.
 New Jersey Asbestos Co., Camden, N. J.
 New York Asbestos Mfg. Co., 80 John, New York
 Oil City Asbestos Co., Oil City, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Fibres

(See Asbestos Felting)

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Asbestos Gloves & Mitts

Federal Asbestos Co., Alliance, O.
Johns, H. W.-Manville Co., 100 William, New York
Keasbey & Mattison Co., Ambler, Pa.

Asbestos Household Articles

Johns, H. W.-Manville Co., 100 William, New York
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Material

Asbestos Fibre Spinning Co., North Wales, Pa.
Carey, Philip Mfg. Co., Lockland, O.
Chicago Fire Proof Covering Co., 171 Randolph, Chicago, Ill.
Ehret Magnesia Mfg. Co., Land Title bldg, Philadelphia, Pa.
Federal Asbestos Mfg. Co., Alliance, O.
Franklin Mfg. Co., Franklin, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
Johns, H. W.-Manville Co., 100 William, New York
Keasbey & Mattison Co., Ambler, Pa.
New Jersey Asbestos Co., Camden, N. J.
New York Asbestos Mfg. Co., 80 John, New York
Oil City Asbestos Co., Oil City, Pa.
Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.
Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Metallic Cloth

Asbestos Fibre Spinning Co., North Wales, Pa.
Johns, H. W.-Manville Co., 100 William, New York
Keasbey & Mattison Co., Ambler, Pa.

Asbestos Miners

International Asbestos Co., 309 B'way, New York
Johns, H. W.-Manville Co., 100 William, New York
Keasbey & Mattison Co., Ambler, Pa.
Martin, R. H., 220 B'way, New York
Sall Mountain Asbestos Mfg. Co. (Fibre), 68 S Canal, Chicago, Ill.

Asbestos Paper & Mill Board Mfrs.

Carey, Philip Mfg. Co., Lockland, O.
Ehret Magnesia Mfg. Co., Land Title bldg, Philadelphia, Pa.
Franklin Mfg. Co., Franklin, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
Johns, H. W.-Manville Co., 100 William, New York
Keasbey & Mattison Co., Ambler, Pa.
New York Asbestos Mfg. Co., 80 John, New York
Norristown Magnesia & Asbestos Co., Norristown, Pa.
Oil City Asbestos Co., Oil City, Pa.
United States Asbestos Co., Manheim, Pa.
Star Asbestos Mfg. Co., North Wales, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Protected Metal

Asbestos Protected Metal Co. (Corrugated & Flat for Roofing, Siding & Ceilings), Canton, Mass.

Asbestos Roofing

(See Roofing, Asbestos)

Asbestos Rope, Cord & Twine

(See Asbestos Textiles)

Asbestos Table Padding

Asbestos Fibre Spinning Co. ("Huber"), North Wales, Pa.

Asbestos Textiles

Asbestos Fibre Spinning Co., North Wales, Pa.
Johns, H. W.-Manville Co., 100 William, New York
Keasbey & Mattison Co., Ambler, Pa.
United States Asbestos Co., Manheim, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index, end of book)

Asbestos Yarns

(See Asbestos Textiles)

Ash Chutes (Steel Plate)

Edwards, T. & Co., Holyoke, Mass.
Lyon Metallic Mfg. Co., Aurora, Ill.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
SCHREIBER, L. & SONS CO., Sth & Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)

Ash Handling Plants

(See Conveyors, Coal & Ash Handling; also Coal & Ore Handling Machinery)

Ash Sifters

Brownson, R. & Co. ("Save-All"), St. Paul, Minn.
Hill Dryer Co. ("Hustler"), Worcester, Mass.
Lively, Jas. M. Co. ("I.-X.-L."), New Brunswick, N. J.
Success Mfg. Co. ("Perfection"), Gloucester, Mass.
Whittle, James H. ("Common Sense"), Worcester, Mass.

Asphalt Crushers & Pulverizers

Coldwell-Wilcox Co., Newburgh, N. Y.

Asphalt Damp Course

(See Damp Course)

Asphalt Dealers

Armitage Mfg. Co., Richmond, Va.
Armstrong, M. K., 95 S Clark, Chicago, Ill.
Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
Barrett Mfg. Co., Land Title bldg, Phila., Pa.
Dunderberg Asphalt Co., 6 Fletcher, New York
Gabriel & Schall, 205 Pearl, New York
Lamson, Jno. S. & Bro., 84 William, New York
Neuchatel Asphalt Co. (Ltd.), 265 B'way, New York
Saacke, Chas. W., 76 William, New York
Scheel, Wm. H., 159 Maiden la, New York
Schillinger Bros. Co., Toledo, O.
Sicilian Asphalt Paving Co., 41 Park Row, New York
Texas Co., 17 Battery pl., New York
Trinidad Asphalt Co., 320 S 21st, St. Louis, Mo.
Uvalde Asphalt Co., 1 B'way, New York, Cline, Tex.
Warren Bros. Co., 93 Federal, Boston, Mass.

Asphalt Floors & Cellars

(See Contractors, Asphalt Paving)

Asphalt Heating Tanks

(See Heaters, Asphalt)

Asphalt (Liquid & Solid)

American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
Densmore-Stabler Refining Co., Los Angeles, Cal.
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
Dunderberg Asphalt Co., 6 Fletcher, New York
Globe Asphalt Co. ("Obispo" Brand), Bakewell bldg, Pittsburg, Pa.
Hercules Oil Refining Co., Los Angeles, Cal.
INDIAN REFINING CO. (Liquid for Roads), Cincinnati, O. (See adv. index, end of book)
Standard Asphalt & Rubber Co. ("Sarco"), 205 La Salle, Chicago, Ill.
Southern Refining Co., Los Angeles, Cal.
Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.
Union Oil Co. of Cal. (The Diamond Brand), Los Angeles, Cal.

Asphalt Machinery

(See Machinery, Asphalt)

Asphalt Mastic

Blome, R. S. Co., Unity bldg, Chicago, Ill.
Capitol Asphalt Mastic Co., Columbus, O.
Gabriel & Schall (German Brunswick), 205 Pearl, New York

Neuchatel Asphalt Co., 265 B'way, New York
New York Mastic Works (Seysssel Asphalt), 11 B'way, New York
Shields, W. S. P. Co., Witherspoon bldg, Phila., Pa.
Standard Asphalt & Rubber Co. ("Sarco," "Matrix"), 205 La Salle, Chicago, Ill.

Asphalt Miners & Refiners

American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
Barber, A. L. Asphalt Co. (Natural Asphalt), 90 West, New York
Barrett Mfg. Co., Land Title bldg, Phila., Pa.
British California Oil Co., Los Angeles, Cal.
Bulls Head Oil Works (All Grades), San Francisco, Cal.
California Asphaltum Sales Agency ("Maltha"), Mills bldg, San Francisco, Cal.
California-Fresno Oil Co., Fresno, Cal.
California Liquid Asphalt Co., Santa Barbara, Cal.
Densmore-Stabler Refining Co., Los Angeles, Cal.
Dunderberg Asphalt Co., 6 Fletcher, New York
Empire Asphalt Co. (Refiners), Newark, N. J., & Arrott bldg, Pittsburg, Pa.
Gilson Asphaltum Co., Land Title bldg, Phila., Pa.
Globe Asphalt Co. ("Obispo" brand), Bakewell bldg, Pittsburg, Pa., & Los Angeles, Cal.
Gulf Refining Co. (Texas Asphalt), Frick bldg, Pittsburg, Pa.; Refinery, Port Arthur, Tex.
Hercules Oil Refining Co., Los Angeles, Cal.
Imperious Product Co. ("Fairfield," "Sea Wall"), 213 St. Paul, Baltimore, Md.
INDIAN REFINING CO., Cincinnati, O. (See adv. index, end of book)
National Oil Refining & Mfg. Co., Bakersfield, Cal.
Producer's Refinery, Bakersfield, Cal.
Sicilian Asphalt Paving Co., 41 Park row, New York
Southern Refining Co., Los Angeles, Cal.
Standard Asphalt & Rubber Co. ("Sarco"), 205 La Salle, Chicago, Ill.
Texas Co., 17 Battery pl., New York
Trinidad Asphalt Mfg. Co. (Refiners), 320 S 21st, St. Louis, Mo.
Union Consolidated Refining Co., Los Angeles, Cal.
Union Oil Co. (of California), Los Angeles, Cal.
Uvalde Asphalt Co., 1 B'way, New York
Warner-Quinlan Asphalt Co., Syracuse, N. Y., & 42 B'way, New York

Asphalt Mixers

(See also Concrete & Mortar Mixers)

Coldwell-Wilcox Co., Newburgh, N. Y.
Drake Standard Machine Works, 298 W Jackson boul, Chicago, Ill.
Equitable Asphalt Maintenance Co. ("Blake & Lutz"), Kansas City, Mo.
Erie Machine Shops, Erie, Pa.
Hetherington & Berner Co., 19 W South, Indianapolis, Ind.
Iroquois Iron Works, Buffalo, N. Y.
Densmore-Stabler Refg. Co., Los Angeles, Cal.
Pioneer Iron Wks., 149 Pioneer, B'klyn, N. Y.
Universal Road Machinery Co., 120 Liberty, New York

Asphalt Paving Blocks & Tile

(See Paving Blocks, Asphalt)

*Asphalt Paving Protecting Strip

AMERICAN BRAKE SHOE & FOUNDRY Co. ("Marginal"), Mahwah, N. J.;
Western Union bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Asphalt Paving Tools

(See Tools, Asphalt Paving)

Asphalt Pipe Dip

American Asphaltum & Rubber Co., Woman's Temple, Chicago, Ill.
Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
Dunderberg Asphalt Co., 6 Fletcher, New York
Globe Asphalt Co., Pittsburg, Pa.
Hercules Oil Refining Co., Los Angeles, Cal.
INDIAN REFINING CO., Cincinnati, O. (See adv. index, end of book)
Southern Refining Co., Los Angeles, Cal.
Standard Asphalt & Rubber Co. ("Sarco"), 205 La Salle, Chicago, Ill.
Union Oil Co. (of California), Los Angeles, Cal.

Asphalt Pitch

(See Pitch, Asphalt)

Asphalt Plant Builders

Atlas Dryer Co., Cleveland, O.
 Cummer, F. D. & Sons Co. (Stationary), "The Arcade," Cleveland, O.
 East Iron & Machine Co. (One-Car Portable), Lima, O.
 Guelich Portable Asphalt Plant Co. (Portable), 300 W Jackson boul. Chicago, Ill.
 Hetherington & Berner Co., Indianapolis, Ind.
 Iroquois Iron Works (Portable & Railway), Buffalo, N. Y.
 Universal Road Machinery Co. (Portable & Stationary), 120 Liberty, New York
 Warren Asphalt Paving Co. (Municipal Plants a Specialty), Cambridge, Mass.

Asphalt Rollers (Steam)

(See Rollers, Steam Road)

Asphalt Separators

Coldwell-Wilcox Co., Newburgh, N. Y.

Asphaltilene

Good Roads Improvement Co. (For Macadam or Gravel Roads, a Perfect Binder, Water & Dust Proof), Cincinnati, O.

Asphaltum Mfrs. & Importers

Dunderberg Asphalt Co., 6 Fletcher, New York
 Gilson Asphaltum Co., Land Title bldg, Phila., Pa.
 Gulf Refining Co. (Oil for Fluxing), Frick bldg, Pittsburg, Pa.; Refinery, Port Arthur, Tex.
INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)
 King-Keystone Oil Co., San Francisco, Cal.
 Lamson, Jno. S. & Bro., 84 William, New York
 National Oil Refining & Mfg. Co., Bakersfield, Cal.
 Saacke, Charles W., 76 William, New York
 Schillinger Bros. Co., 215 City av. Toledo, O.
 Sicilian Asphalt Paving Co., 41 Park row, New York

Assayers' Supplies

(See Chemical Apparatus)

Atomizers (Billow)

National Supply Co. (For Fuel Oil Vaporation), 315 Dearborn, Chicago, Ill.

***Attachments (Automatic Drilling)**

NATIONAL-ACME MFG. CO., 7500
 Stanton av. S. E. Cleveland, O. (See adv. index & branch offices, end of book)

Attachments (Gas)

American Brass & Copper Co., 138 Lafayette, New York
 Bryant Electric Co., Bridgeport, Conn.
 Macallen Co., Boston, Mass.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Spencer's, I. S. Sons, Guilford, Conn.
 Steele & Johnson Mfg. Co., Waterbury, Conn.
 Trumbull Electric Mfg. Co., Plainville, Conn.
 Walsh, Owen Mfg. Co., 78 Barclay, New York

Attachments (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Owen Machine Tool Co. (Vertical Spindle, Rack Cutting, Circular Hand Feed, Circular Power Feed), Springfield, O.
 Whitney Mfg. Co. (Vertical Universal), Hartford, Conn.

Attemperators

Jochum, Andrew, 148 E 50th, New York
 Wolf, Fred W. Co., 141 Rees, Chicago, Ill.

Auger & Gimlet Mfrs.

Beaver Falls Mfg. & Fuel Co., Beaver Falls, Pa.
 Conrad, A. & J., Fort Washington, Pa.
 Deuse, J. S., Chester, Conn.
 Drew, C. & Co., (Augers), Kingston, Mass.

Ford Auger Bit Co. (Augers & Bits), Holyoke, Mass.
 Garratt & Beach, Seymour, Conn.

Hamden Mfg. Co., Hamden, Conn.

Humphreysville Mfg. Co., Seymour, Conn.

Irwin Auger Bit Co. (Augers only), Wilmington, Ohio

Ives, W. A. Mfg. Co. (Augers Only), 299 B'way, New York

Jennings, C. E. & Co., 42 Murray, New York

Mack & Co. (Solid Cast Steel), Rochester, N. Y.

Millers Falls Co., 28 Warren, New York;

Works: Millers Falls, Mass.

Mayhew, H. H. Co. (Gimlets only), Shelburne Falls, Mass.

New Haven Copper Co. (Cast Steel Augers), Seymour, Conn.

Ohio Tool Co. (Augers only), Columbus, O.

Rockford Bit Co. (Augers), Kokomo, Ind.

Slack, Timothy, Oxford, Pa.

Snell Mfg. Co., Fiskdale, Mass.

Swan, James Co. ("Cook's," Augers, Gimlets, etc.), Seymour Conn.

Augers (Boring Machine)

American Woodworking Machine Co., 138 Liberty, New York

Buckeye Mfg. Co., Anderson, Ind.

Chester Mfg. Co., Chester, Conn.

Hardisty & Co., Harris & Penna R. R., Cincinnati, O.

Hubbard & Co., Murtland bldg, Pittsburg, Pa.

Irwin Auger Bit Co., Wilmington, Ohio

Ives, W. A. Mfg. Co., 299 B'way, New York

Jennings, C. E. & Co., 42 Murray, New York

Jennings-Russell Mfg. Co., Chester, Conn.

New Haven Copper Co., Seymour, Conn., & 114 Chambers, New York

Ohio Tool Co., Columbus, Ohio

Slack, Timothy, Oxford, Pa.

Snell Mfg. Co., Fiskdale, Mass.

Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.

Augers (Bung)

(See Borers, Bung Hole)

Augers (Carpenters')

(See Auger & Gimlet Manufacturers)

Augers (Earth)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of book)

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Austin Mfg. Co., Manhattan bldg, Chicago, & Harvey, Ill.

Cook Well Co., 15 S 4th, St. Louis, Mo.

Easey Auger Co. ("Bowman's"), College Corner, O.

Eureka Fence Mfg. Co. ("The S. & B."), Richmond, Ind.

Gills, Jno. D. Sons (Mine), Phillipsburg, Pa.

Howell, R. R. & Co., 31st av. c S E 4th, Minneapolis, Minn.

Morrison Mfg. Co., Fort Madison, Iowa

Rumsey & Co. (Ltd.) (Improved Clay, Earth & Sand), Seneca Falls, N. Y.

Star Drilling Machine Co., Akron, Ohio

Williams Bros., Ithaca, N. Y.

Augers (Electric Power)

Fairmont Mining Machinery Co., Fairmont, W Va.

Augers (Flexible Pipe Cleaning)

Lewis, Samuel, 5 Front, New York

Augers (Hollow)

Bonney Vise & Tool Works, Allentown, Pa.

Cincinnati Tool Co., Norwood, Cincinnati, O.

Ives, W. A. Mfg. Co., 299 B'way, New York

Millers Falls Co. (Adjustable), 28 Warren, New York; Works: Millers Falls, Mass.

Silver Mfg. Co., ("Star") Salem, O.

Stearns, E. C. & Co., Syracuse, N. Y.

Swan, Jas. Co. ("Ames," "Universal" Chisel), Seymour, Conn.

Wood, A. A. & Sons Co. ("Universal"), Atlanta, Ga.

Augers (Ice)

Hiles, C. A. & Co., 14th & Western av. Chicago, Ill.

Augers (Millwrights')

Jennings-Russell Mfg. Co., Deep River, Conn.
 Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.

Augers (Miners')

Fulton Tool Works (Breast), Canal, Fulton, O.

Hubbard & Co. (Breast), Pittsburg, Pa.

Peglar Mfg. Co. ("Breast"), Chattanooga, Tenn.

Pittsburg Steel Mfg. Co. (Breast), Pittsburg, Pa.

Pittsburg Tool & Drop Forge Co. ("Cheswick" Coal), Works, Cheswick, Pa.

Salem Tool Co. ("Salem" Breast Auger for Coal Mining), Salem, O.

Snell Mfg. Co., Fiskdale, Mass.

Warwood Tool Co. (Breast), Wheeling, W. Va.

Augers (Post-Hole)

Briggs Labor Saving Specialty Co. (Lightning), Waterloo, Iowa

Buckeye Mfg. Co., Anderson, Ind.

Dicke Tool Co., Downers Grove, Ill.

Driskill Mfg. Co., Paducah, Ky.

Eureka Fence Mfg. Co. ("S. & B."), Richmond, Ind.

Iwan Bros. ("Iwan," "Vaughns"), South Bend, Ind.

Jackson Shovel & Tool Co. ("Hartford") Montpelier, Ind., & Market & Randolph, Chicago, Ill.

Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.

Lehr Agricultural Co., Fremont, Ohio

Porter, J. E. Co. ("Keystone," "Porters"), Ottawa, Ill.

Pratt, Wm. E. Mfg. Co. ("Star"), 91 Lake, Chicago, Ill.

Racine Malleable & Wrought Iron Co., Racine, Wis.

Richards Mfg. Co. ("Richards"), Aurora, Ill.

Tucker & Dorsey Mfg. Co. ("Dalbey"), State av c Bates, Indianapolis, Ind.

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Western Steel & Iron Works, De Pere, Wis.

Augers (Rafting)

Irwin Auger Bit Co., Wilmington, Ohio
 Ives, W. A. Mfg. Co., 299 B'way, New York
 Swan, Jas. Co., Seymour, Conn.

Augers (Ring)

Irwin Auger Bit Co., Wilmington, Ohio
 Ives, W. A. Mfg. Co., 299 B'way, New York
 Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.

Augers (Ship)

Ford Auger Bit Co., Holyoke, Mass.
 Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.
 Irwin Auger Bit Co., Wilmington, Ohio
 Jennings, C. E. & Co. (The "L'Hommedieu"), 42 Murray, New York
 Ohio Tool Co., Columbus, O.
 Rockford Bit Co., Kokomo, Ind.
 Snell Mfg. Co., Fiskdale, Mass.
 Swan, James Co. ("Swan's"), Seymour, Conn.

Augers (Telegraph)

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Augers (Well)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of book)

Austin Mfg. Co., Manhattan bldg, Chicago, Ill.

Iwan Bros., South Bend, Ind.

Mark Mfg. Co., Evanston, Ill.

OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)

Pech, Gustave, Foundry & Machine Co., Le Mars, Iowa

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Star Drilling Machine Co., Akron, Ohio

Automatic Weighing Machines

(See Machinery)

Automobile Boats

(See Motor Boat, Launch & Yacht Builders)

Automobile Builders

Star (*) indicates Firms who Manufacture Steam Automobiles.

Dagger (†) indicates those who Make Electric Automobiles.

Star & Dagger (*†) indicates those who Make more than one kind. The kinds made by the latter are indicated in the parentheses following their names.

All others Make Gasoline Automobiles.

A. B. C. Motor Vehicle Mfg. Co., 3915 Morgan, St. Louis, Mo.

ABENDROTH & ROOT MFG. CO. ("Frontenac" Touring Cars & Runabouts), Newburgh, N. Y. (See adv. Index & branch offices, end of book)

Acme Motor Car Co. ("Acme" Touring Cars, Runabouts, etc.), Reading, Pa.

Adams Co. ("Adams-Farwell" Touring Cars), Dubuque, Ia.

Aerocar Motor Co. (Touring Cars), Detroit, Mich.

Albany Automobile Co. (Runabouts & Surreys), Albany, Ind.

Alden-Sampson Mfg. Co. (Trucks), Pittsfield, Mass.

Allen-Kingston Motor Car Co. (Touring Cars), Kingston, N. Y.

American-La France Fire Engine Co. (For Fire Department Service), 149 B'way, New York, & Elmira, N. Y.

American Locomotive Co., B'way & 62d, New York

American Machine Mfg. Co. (Commercial Trucks), Detroit, Mich.

†American Metal Wheel & Auto Co. ("Juvenile" Child's Car), Toledo, O.

American Motor Car Co. ("American" Tourist & Roadster), Indianapolis, Ind.

American Motor Truck Co. (Commercial Truck Cars), Lockport, N. Y.

†Anderson Carriage Co. (Stanhopes, Coupes), Detroit, Mich.

Anderson Carriage Mfg. Co. (Pleasure Cars), Anderson, Ind.

Angus Automobile Co. (Pleasure Cars), Angus, Neb.

Apperson Bros. Automobile Co. ("Apperson" Touring Cars, etc.), Kokomo, Ind.

Atlas Motor Car Co. (Pleasure Vehicles, Taxicabs, etc.), Springfield, Mass.

Auburn Automobile Co., Auburn, Ind.

Austin Automobile Co. (Touring Cars, etc.), Grand Rapids, Mich.

*†Auto-Car Equipment Co. (Electric & Gasoline Touring Cars, Broughams, Limousines, Delivery Wagons, etc.), Buffalo, N. Y.

Antocar Co. (Touring Cars), Ardmore, Pa.

Auto Vehicle Co. (Pleasure Cars), Los Angeles, Cal.

†Babcock Electric Carriage Co. (Electric Carriages), 226 W Utica, Buffalo, N. Y.

Bailey Automobile Co., Springfield, Mass.

†Bailey, S. R. & Co. (Inc.), Amesbury, Mass.

†Baker Motor Vehicle Co. ("Baker Kid," "Torpedo" Racing Cars, Runabouts, Depot Carriages, etc.), Cleveland, O.

Bartholomew Co. ("Glide" Touring Cars, Delivery Wagons, etc.), Peoria, Ill.

Bay State Auto Co. (Bay State Forty"), 112 Norway, Boston, Mass.

Belden Motor Car Co., Bessemer bldg., Pittsburg, Pa.

Bendix Co. (Pleasure Vehicles), Chicago, Ill.

Benner Motor Car Co. (Pleasure Vehicles), Thoroughfare bldg, New York

Benz Auto Import Co., 1601 B'way, New York

Black Mfg. Co. (Pleasure Vehicles), 124 E Ohio, Chicago, Ill.

Blomstrom Mfg. Co. (Touring), Detroit, Mich.

*Boss Knitting Machine Works ("Boss"), Reading, Pa.

Bradford Motor Works ("Holley" Light Touring Car), Bradford, Pa.

Brazier Automobile Works, 1811 Fitzwater, Phila., Pa.

Brewster & Co., B'way & 47th, New York

Bristol Engineering Corp. (Commercial Wagons), Bristol, Conn.

Brodesser Elevator Mfg. Co. (Delivery & Commercial Vehicles), Milwaukee, Wis.

Brush Runabout Co., West Detroit, Mich.

Buckeye Mfg. Co. (Touring Cars, Trucks, etc.), Anderson, Ind.

Buffalo Auto Truck & Motor Co., Buffalo, N. Y.

Buffum, H. H. Co., Abington, Mass.

Buggy Car Co. (Motor Buggies), Cincinnati, O.

Buick Motor Co. (Runabouts, Touring), Flint, Mich.

†Byrider Electric Auto Co. (Pleasure Vehicles), 1952 E 55th, Cleveland, O.

C. V. I. Motor Car Co., Jackson, Mich.

Cadillac Motor Car Co. ("Cadillac" Runabouts, Touring Cars, Delivery Wagons, etc.), Detroit, Mich.

Cameron Car Co. ("Cameron" Light Touring), Beverly, Mass.

Carter Car Co. (Pleasure Cars), Pontiac, Mich.

*Centaur Motor Co., Buffalo, N. Y.

Chadwick Engineering Works (Pleasure Cars), Pottstown, Pa.

Chalfant Motor Car Co. (Touring), Lenover, Pa.

Chalmers-Detroit Motor Co., Detroit, Mich.

†Champion Wagon Co. ("Champion" Com. Vehicles), Owego, N. Y.

Chase Motor Truck Co. (Commercial Truck), Syracuse, N. Y.

Chester Engineering & Machine Co., Chester, Pa.

Chicago Coach & Carriage Co. ("Duer" Runabout), 1223 Michigan av, Chicago, Ill.

Chief Mfg. Co. (Pleasure Cars), Buffalo, N. Y.

*Clark, Edw. S. (Carriages, Delivery Wagons, etc.), 272 Freeport, Dor, Boston, Mass.

Clemick-Hirsch Co., 592 National av, Milwaukee, Wis.

Cleveland Auto Cab Co. (Taximeter Cabs), Geneva, O.

Cleveland Motor Car Co. (Touring Cars), 1659 B'way, New York

Coates-Goshen Automobile Co. (Pleasure Cars), Goshen, N. Y.

Cole Carriage Co. (Passenger), Indianapolis, Ind.

Columbia Electric Co., Knightstown, Ind.

*Columbia Engineering Works ("Herschman" Commercial Cars), Brooklyn, N. Y.

*†Columbus Buggy Co. (Gasoline & Electric), Columbus, O.

Commercial Automobile Co., Chicago, Ill.

Commercial Motor Car Co. (Gasoline Trucks), Times bldg, New York

Commercial Motor Truck Co., Plymouth, O.

Continental Automobile Mfg. Co. (Touring), New Haven, Conn.

Coppock Motor Car Co. (Commercial Trucks), Decatur, Ind.

Corbin Motor Vehicle Corporation (Corbin Air-Cooled Touring Cars & Heavy Trucks), New Britain, Conn.

Cornish-Friedberg Motor Car Co. (Touring & Roadsters), 1223 Michigan av, Chicago, Ill.

†Couple-Gear Freight Wheel Co., Grand Rapids, Mich.

Crane & Whitman Co., Bayonne, N. J.

Crawford Automobile Co. ("Crawford" Cars), Hagerstown, Md.

Crescent Automobile Co., Jersey City, N. J.

Curtis Motor Truck Co. (Motor Trucks), Decatur, Ill.

Daimler Mfg. Co. ("American Mercedes" Touring Cars, Commercial Wagons, etc.), 939 Steinway av, Long Island City, N. Y.

Dayton Motor Car Co. ("Stoddard-Dayton"), Dayton, O.

Delaware Machine Works ("Harrismobiles"), Wilmington, Del.

De Luxe Motor Car Co. ("De Luxe"), Detroit, Mich.

Detroit Auto Co., Detroit, Mich.

Diamond T Motor Car Co. (Touring), 3 Huron, Chicago, Ill.

Dorris Motor Car Co. (Touring Cars), 22 S Sarah, St. Louis, Mo.

Duro Car Mfg. Co. (Pleasure Cars), Los Angeles, Cal.

Duryea, Charles E., Reading, Pa.

Earl Motor Car Co. (Touring), Kenosha, Wis.

Easton Machine Co. (Pleasure Cars), South Easton, Mass.

Economy Motor Buggy Co., Fort Wayne, Ind.

*†Electric Vehicle Co. ("Columbia" Carriages, Delivery Wagons, Trucks, etc., Electric & Gasoline), Hartford, Conn.

Elkhart Motor Car Co. (Pleasure Cars), Elkhart, Ind.

Elmore Mfg. Co. ("Elmore" Pathfinder Touring Cars, 2 Cycle), Clyde, O.

†Elwell-Parker Electric Co. (Freight & Passenger), 4225 St. Clair av, Cleveland, O.

Eureka Motor Buggy Co., Beavertown, Pa.

Eureka Motor Buggy Mfg. Co., St. Louis, Mo.

Fairmount Engineering Works, 2652 Callowhill, Philadelphia, Pa.

Evansville Automobile Co. ("Simplicity" Gearless Cars), Evansville, Ind.

Everitt-Metzger Flanders Co. (Pleasure Vehicles), Detroit, Mich.

Fairmont Engineering Works, 2652 Callowhill, Phila., Pa.

Famous Mfg. Co. ("Champion" Roadsters), E Chicago, Ind.

Fee-Bock Auto Co. (Touring), Detroit, Mich.

†Flandrau & Co., 406 Broome, New York

Ford Motor Co. (4 cylinder Touring Cars, Runabouts, Racing Cars, etc.), Detroit, Mich.

Jewel Motor Car Co. ("Jewel" Touring Cars), Massillon, O.

Fort Pitt Motor Mfg. Co. (Pleasure Cars), New Kensington, Pa.

Four Traction Auto Co., Mankato, Minn.

Franklin, H. H. Mfg. Co. ("Franklin" Runabouts, Touring Cars, etc.), Syracuse, N. Y.

†Fritchle Automobile & Battery Co. (Pleasure Cars), Denver, Colo.

Gary Taxicab Co. (Taxicabs), 1256 Michigan av, Chicago, Ill.

MILTON P. HIGGINS, President

JOHN W. HIGGINS, Secretary and General Manager

GEORGE I. ALDEN, Treasurer

Established 1883



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LIGHT AND HEAVY METAL STAMPING, COLD ROLLING, BALL BEARINGS, STOVE TRIMMINGS AND SHEET METAL SPECIALTIES, AUTOMOBILE, BICYCLE, MOTORCYCLE, TEXTILE, TELEPHONE AND ELECTRICAL FITTINGS, COLD AND HOT ROLLED STRIP STEEL, BRASS, ALUMINUM, ETC.

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MAIN OFFICE AND FACTORY **WORCESTER, MASS., U. S. A.**

Chicago Office, 1064 MONADNOCK BLOCK

- Gaeth Automobile Co. ("Gaeth" Touring Cars, etc.), 902 Pearl, Cleveland, O.
- Garford Motor Car Co., 1540 B'way, New York, & Cleveland, O.
- Gas Engine & Power Co. & Chas. L. Seabury & Co. (4-cylinder "Speedway" Cars), Morris Heights, New York
- Gearless Motor Car Co. (Pleasure Vehicles), Rochester, N. Y.
- General Vehicle Co. (Victorias, Landaullets, Roadsters, Runabouts, Commercial Wagons & Trucks), Long Island City, N. Y.
- Gifford-Pettit Mfg. Co. (Commercial Trucks), 1217 Devon, Chicago, Ill.
- Grabowsky Power Wagon Co., Detroit, Mich.
- Gramm-Logan Motor Car Co. (Commercial Cars), Bowling Green, O.
- Grout Bros. Automobile Co. (Touring Cars), Orange, Mass.
- *Halsey, Jas. T. Motor Truck Co. (Steam & Gasoline Trucks), 336 N York av, Phila., Pa.
- Hammer Motor Co. ("Hammer" 4-cylinder Touring Cars), Detroit, Mich.
- Harrell Buggy Co. (Commercial Cars), South Boston, Va.
- Hartford Suspension Co. ("Gobron-Brille"), 214 W 88th, New York
- Hart-Kraft Motor Co. (Commercial Power Wagons), York, Pa.
- Haydock, D. W. Auto Mfg. Co., 1930 Chestnut, St. Louis, Mo.
- Haynes Automobile Co. (Touring Cars), Kokomo, Ind.
- Hewitt Motor Co. (Touring & Commercial Cars), 6 E 31st, New York
- Holsman Automobile Co. ("Holsman" Pleasure Vehicles & Commercial Wagons), Monadnock bldg, Chicago, Ill.
- Homer Auto Truck Co., Homer, Mich.
- Hupp Motor Car Co. (Pleasure Vehicles), Detroit, Mich.
- International Automobile Co. (Motor Vehicles), 1243 Wabash av, Chicago, Ill.
- International Harvester Co. ("Farmers"), 7 Monroe, Chicago, Ill.
- Inter-State Automobile Co. (Pleasure Cars), Muncie, Ind.
- Iowa Motor Car Co., Kellogg, Iowa.
- Iroquois Motor Vehicle Co. ("Iroquois" Touring Cars), Seneca Falls, N. Y.
- Jackson Automobile Co. (Touring Cars & Runabouts), Jackson, Mich.
- Jeannin Automobile & Mfg. Co., St. Louis, Mo.
- Jeffrey, Thos. B. & Co. ("Rambler" Runabouts, Surreys, Touring Cars, etc.), Kenosha, Wis.
- *Johnson Service Co. (Commercial Wagons), Milwaukee, Wis.
- Kansas City Motor Car Co. (Commercial Auto Trucks), Kansas City, Mo.
- Karbach Auto & Vehicle Co., Omaha, Neb.
- Kearns Motor Buggy Co., Beavertown, Pa.
- Kirk Bros. Automobile Co. ("Yale"), Toledo, O.
- Kissel Motor Car Co. (Pleasure Cars), Hartford, Wis.
- Klink Motor Car Mfg. Co. (Pleasure Vehicles), Dansville, N. Y.
- Knight & Kilbourne ("Silent Knight" Touring Car), 1240 Michigan av, Chicago, Ill.
- Knox Automobile Co. ("Knox" Waterless Runabouts, Touring Cars, etc.), Springfield, Mass.
- Kunz, J. L. Machinery Co. ("Kunz" Air Cooled Cars), 484 Market, Milwaukee, Wis.
- Krueger Mfg. Co. ("Eclipse" Touring Cars, Delivery Wagons, etc.), Milwaukee, Wis.
- *Lane Motor Vehicle Co. (Touring Cars), Poughkeepsie, N. Y.
- †Lansden Co. (Comm'l Wagons), Newark, N. J.
- Lauth-Juergens Motor Car Co., 94 Rawson, Chicago, Ill.
- Lear, Oscar Automobile Co. ("Frayer-Miller" Touring Cars, Commercial Vehicles, etc.), Springfield, O.
- Lindsley, J. V. & Co. (Pleasure Cars), Dowagiac, Mich.
- *†Locomobile Company of America (Gasoline Touring Cars), Bridgeport, Conn.
- *†Logan Construction Co. (Touring Cars, Trucks, etc., Electric & Gasoline), Chillicothe, O.
- Lozier Motor Co. ("Lozier" Motor Cars, etc.), 55th & B'way, New York
- Loomis Auto Car Co., Westfield, Mass.
- Luverne Auto Co. (Pleasure Cars), Luverne, Minn.
- McCue Co. (Pleasure Vehicles), Hartford, Conn.
- McIntyre, W. H. Co. (Pleasure Vehicles), Auburn, Ind.
- Mack Bros. Motor Car Co. ("Manhattan" Trucks, Delivery Wagons, Railroad Cars, etc.), Allentown, Pa. & Brooklyn, N. Y.
- Mahoning Motor Car Co., Youngstown, O.
- Marion Motor Car Co. ("Marion" Air Cooled Cars), Indianapolis, Ind.
- Mason Motor Car Co. ("Mason"), 200 E 5th, Des Moines, Ia.
- Matheson Motor Car Co. (Ltd.) (Touring Cars & Commercial Vehicles), Wilkes-Barre, Pa.
- Maxwell-Briscoe Motor Co. (Touring Cars & Commercial Vehicles), Tarrytown, N. Y.
- Meiselbach Motor Wagon Co., North Milwaukee, Wis.
- Merkel Motor Co. ("Merkel"), Milwaukee, Wis.
- Meteor Automobile Works ("Meteor" Touring), Bettendorf, Ia.
- Meteor Motor Car Co. (Pleasure Vehicles), Davenport, Iowa
- Michigan Automobile Co. (Ltd.) (Light Touring Cars), Kalamazoo, Mich.
- Middieby Auto Co. (Pleasure Cars), Reading, Pa.
- Midland Motor Car Co. (Pleasure Cars), Moline, Ill.
- Miller Motor Car Co. ("Miller"), Bridgeport, Conn.
- Milwaukee Auto Engine & Supply Co., 706 Winnebago, Milwaukee, Wis.
- Mississippi Valley Automobile Co., 3935 Olive, St. Louis, Mo.
- Mitchell Motor Car Co. (Touring Cars & Runabouts), Racine, Wis.
- Model Automobile Co. (Touring), Peru, Ind.
- Model Gas Engine Works ("Model" Touring Cars), Peru, Ind.
- Moline Automobile Co. ("Moline"), East Moline, Ill.
- Monarch Motor Car Co. ("Monarch"), Chicago Heights, Ill.
- Monitor Automobile Works (Commercial Cars), 1598 Halsted, Chicago, Ill.
- Moon Motor Car Co. ("Moon" Touring Cars), 4402 Main, St. Louis, Mo.
- Mora Motor Car Co. (Touring, etc.), Newark, N. Y.
- Mors Automobile Co., 583 Park av, New York
- Motor Buggy Mfg. Co., Minneapolis, Minn.
- Nadig, Chas. H. Mfg. Co. (Gasoline), Allentown, Pa.
- Napier Motor Co. of America, Jamaica Plain, Mass.
- *†National Motor Vehicle Co. ("The New National" Runabouts, Touring Cars, etc., Electric & Gasoline), Indianapolis, Ind.
- National Sewing Machine Co., Belvidere, Ill.
- Nielson Motor Car Co. (Runabout), Detroit, Mich.
- Nordyke & Marmon Co. ("Marmon" Touring Cars), Indianapolis, Ind.
- Northern Motor Car Co., 1090 Champlain, Detroit, Mich.
- Oakland Motor Car Co. (Touring Cars, Runabouts, etc.), Pontiac, Mich.
- Olds Motor Works (Runabouts, Touring Cars, Delivery Wagons, etc.), Lansing, Mich.
- Omar Motor Co. (Juvenile Cars), Newark, N. J.
- Overholt Co. (Pleasure Cars), Galesburg, Ill.
- Overland Auto Co. (Pleasure Cars), Indianapolis, Ind.
- Owosso Carriage Co., Owosso, Mich.
- Paekard Motor Car Co., Detroit, Mich.
- Page Fence Gas Engine Co. ("Page-Adrian" Air Cooled), Adrian, Mich.
- Palmer & Singer Mfg. Co. (Pleasure Vehicles), 1620 B'way, New York
- Peerless Motor Car Co. ("Peerless" Touring Cars), Cleveland, O.
- Pennsylvania Auto-Motor Co. (Touring), Brynmawr, Pa.
- Petrel Motor Car Co. (Pleasure Vehicles), Kenosha, Wis.
- Phoenix Automobile Works (Commercial Cars), Phoenixville, Pa.
- Pickard Bros. (Touring Cars & Roadsters), Brockton, Mass.
- Pierce Arrow Motor Co. ("Arrow" Motor Cars, etc.), 18 Hanover, Buffalo, N. Y.
- Pierce Engine Co. ("Pierce-Racine" Runabouts & Touring Cars), Racine, Wis.
- Piggins Bros. (Pleasure Cars), Racine, Wis.
- *Pittsburg Machine Tool Co. (Commercial Only), 61 Darrah, Allegheny, Pa.
- Pope Mfg. Co. ("Pope-Hartford" Touring Cars), Hartford, Conn.
- Pope Mfg. Co. ("Pope-Tribune" Cars), Hagerstown, Md.
- Pope Motor Car Co. ("Pope-Waverly"), Indianapolis, Ind.
- *†Pope Motor Car Co. ("Pope-Toledo" Gasoline & Electric), Toledo, O.
- Premier Motor Mfg. Co. (Pleasure & Commercial Vehicles), Indianapolis, Ind.
- Pullman Motor Car Co., Chicago, Ill.
- Pullman Motor Vehicle Co. (Runabouts, Touring), Monon bldg., Chicago, Ill.
- Pungs-Finch Auto & Gas Engine Co. (4-cylinder Touring Cars), Detroit, Mich.
- Rainier Motor Car Co., B'way & 50th, New York
- Randall, J. V. & Co. ("Randall" 3 Wheeler), Newtown, Pa.
- Rapid Motor Vehicle Co. (Commercial Power Wagons), Pontiac, Mich.
- †Rauch & Lang Carriage Co. (Coupes, Stanhopes, Landaullets), Cleveland, O.
- Regal Motor Car Co. (Pleasure Vehicles), Detroit, Mich.
- Reliable Dayton Motor Car Co. ("Reliable Dayton"), Chicago, Ill.
- Reliance Motor Truck Co., Detroit, Mich.
- Renault Freres Selling Branch, 1776 B'way, New York
- Reo Motor Car Co. (Pleasure Vehicles), Lansing, Mich.
- Rockford Automobile & Engine Co., Rockford, Ill.
- Ricketts Automobile Works (Pleasure Cars), South Bend, Ind.
- Rider-Lewis Motor Car Co. (Pleasure Vehicles), Muncie, Ind.
- *Ross, Louis S., Newtonville, Mass.
- Royal Tourist Car Co. (Pleasure Vehicles), Cleveland, O.
- St. Louis Car Co. (Pleasure Cars), 5200 N 2d, St. Louis, Mo.
- Schacht Mfg. Co. (Pleasure Cars), Cincinnati, Ohio
- Schnader, Milton H. ("Riviera"), Reading, Pa.
- Seagrave Co., Columbus, O.
- Selden Motor Vehicle Co. (Runabouts, Touring), Rochester, N. Y.
- Sharp, Wm. H. (Racing Cars), Trenton, N. J.
- Shawmut Motor Co. ("Shawmut" Touring Cars), Stoneham, Mass.
- Sheffield Car Co. (Gasoline Trucks, Drays & Delivery Wagons), Three Rivers, Mich.
- Simplex Motor Car Co. (Touring Cars), Mishawaka, Ind.
- Sinclair-Scott Co. ("Maryland"), Baltimore, Md.
- Smith Auto Co. ("Smith" Touring), Topeka, Kans.
- Sommer Motor Co., Detroit, Mich.
- Special Motor Vehicle Co., 223 E 4th, Cincinnati, O.
- Speedwell Motor Car Co. (Touring), Dayton, O.
- Standard Motor Construction Co. (Touring Cars, etc.), 180 Whiton, Jersey City, N. J.
- Stanley Automobile Mfg. Co., Moreland, Ind.
- *Stanley Motor Carriage Co., Newton, Mass.
- Staver Carriage Co. (Runabout), W 76th & Wallace, Chicago, Ill.
- Stearns, F. B. Co. (Touring Cars, etc.), 2963 Euclid av, Cleveland, O.
- Stevens-Duryea Co. (Runabouts, Touring Cars, etc.), Chicopee Falls, Mass.
- Stilson Motor Car Co. (Touring), Pittsfield, Mass.
- Streator Motor Car Co. ("Halladay"), Streator, Ill.
- *†Studebaker Automobile Co. (Gasoline & Electric), South Bend, Ind.
- *†Sturtevant Mfg. Co. ("Sturtevant" Touring Cars, Electric & Gasoline), Clayton Park av, Dor., Boston, Mass.
- Success Auto-Buggy Mfg. Co. (Air Cooled Gasoline Buggies), 530 De Balivre av, St. Louis, Mo.
- Sultan Motor Co., 249 W 64th, New York
- Summit Carriage-Mobile Co. (Runabouts, Surreys & Farmer Mobiles), Waterloo, Iowa
- Thomas, E. R. Motor Co. (Touring Cars, Runabouts, Tourabouts, Limousine, Landaullets & Town Cars), Buffalo, N. Y.
- Thomas Wagon Co., Lititz, Pa.
- Tincher Motor Car Co. ("Tincher" Cars), South Bend, Ind.
- Torbensen Motor Car Co., Bloomfield, N. J.
- Trebert Gas Engine Co., Rochester, N. Y.
- Troy Buggy Works Co. ("Stanley"), Troy, O.
- Union Carriage Co., Branch & Hall, St. Louis, Mo.
- U. S. Motor Car Co., Upper Sandusky, O.
- Van Wambeke, H. F. & Sons (Motor Wagons), Elgin, Ill.
- Veile Motor Vehicle Co. (Pleasure Vehicles), Moline, Ill.
- Victor Automobile Mfg. Co., St. Louis, Mo.
- Walter Automobile Co. (Touring Car, etc.), 49 W 66th, New York
- Waitham Mfg. Co. ("Orient" Touring Cars & Runabouts), Waltham, Mass.
- †Waverly Co. (Pleasure Vehicles), Indianapolis, Ind.
- Wayne Automobile Co. (Touring Cars, 2 & 4 cylinders), Detroit, Mich.
- Wayne Works ("Richmond" Air Cooled Cars), Richmond, Ind.
- Welch Motor Car Co., Pontiac, Mich.
- Western Tool Works ("Gale" Runabouts), Galesburg, Ill.
- *White Co. (Steam), Rose bldg, Cleveland, O.

Wilcox, H. E. Motor Car Co. ("Wolfe" Air Cooled), Minneapolis, Minn.
 Winton Motor Carriage Co. (Pleasure Cars), Berea rd., Cleveland, O.
 *†Woods Motor Vehicle Co. (Electric & Gasoline), 2510 Cottage Grove av., Chicago, Ill.
 York Motor Car Co. ("Pullman" Gasoline), York, Pa.
 Zimmer, Philip G. (Railway Motor Cars), Hammondsport, N. Y.
 Zimmerman Mfg. Co. (Pleasure Cars), Auburn, Ind.

Automobile or Motor Car Trade Names

(Each name is followed by the title (in some cases in an abbreviated form) of the firm making or handling car. The full name, address and variety of product of each firm may be found at a glance by consulting the preceding list of Automobile Builders.)

"A-K"—Allen-Kingston Motor Car Co.
 "ACME"—Acme M. C. Co.
 "ADAMS-FARWELL"—Adams Co.
 "AEROCAR"—Aerocar Motor Co.
 "ALBANY"—Albany Automobile Co.
 "ALCO"—American Locomotive Co.
 "AMERICAN MERCEDES"—Daimler Mfg. Co.
 "AMERICAN"—American M. Car Co.
 "AMERICAN MARK"—St. Louis Car Co.
 "AMERICAN SIMPLEX"—Simplex Motor Car Co.
 "ANDERSON"—Anderson Carriage Mfg. Co.
 "APPERSON"—Apperson Bros. Auto. Co.
 "ATLAS"—Atlas Motor Car Co.
 "AUBURN"—Auburn Automobile Co.
 "AUSTIN"—Austin Automobile Co.
 "AUTOCAR"—Autocar Co.
 "AUTOCARRIAGE"—Johnson Service Co.
 "BAILEY" (Electric)—Bailey, S. R. & Co.
 "BAY STATE FORTY"—Bay State A. Co.
 "BENDIX"—Bendix Co.
 "BENNER"—Benner Motor Car Co.
 "BLOMSTROM"—Blomstrom Mfg. Co.
 "BLUE STREAK"—Logan Construction Co.
 "BOSS"—Boss, K. M. Works
 "BROWNIER"—Omar Motor Ca.
 "BRUSH"—Brush Runabout Co.
 "BUGGYCAR"—Buggy Car Co.
 "BUICK"—Buick M. C. Co.
 "BYRIDER"—Byrider Electric Auto Co.
 "C-F"—Cornish-Friedberg Motor Car Co.
 "CADILLAC"—Cadillac Motor Car Co.
 "CAMERON"—Cameron Car Co.
 "CARTERCAR"—Cartercar Co.
 "CHADWICK"—Chadwick Engineering Works
 "CHALMERS-DETROIT"—Chalmers-Detroit M. Co.
 "CHAMPION"—Champion Wagon Co.
 "CHAMPION"—Famous Mfg. Co.
 "CHICAGO"—Black Mfg. Co.
 "CLEVELAND"—Cleveland M. C. Co.
 "COATES-GOSHEN"—Coates-Goshen Auto Co.
 "COLUMBIA"—Electric Vehicle Co.
 "COMMERCE TRUCKS"—American Machine Mfg. Co.
 "CONTINENTAL"—Continental Automobile Mfg. Co.
 "CORBIN"—Corbin M. V. Corporation
 "COSMOPOLITAN"—Haydock, D. W. Auto Mfg. Co.
 "CRAWFORD"—Crawford Automobile Co.
 "CREST"—Clark, E. S.
 "DEERE"—Deere-Clark Motor Car Co.
 "DE LUXE"—De Luxe Motor Car Co.
 "DETROIT ELECTRIC"—Anderson Carriage Co.
 "DORRIS"—Dorris Motor Car Co.
 "DUR"—Chicago Coach & Carriage Co.
 "DURYEA"—Duryea Power Co.
 "E. M. F."—Everitt-Metzger-Flanders Co.
 "EARL"—Earl M. C. Co.
 "ECLIPSE"—Krueger Mfg. Co.
 "ELMORE"—Elmore Mfg. Co.
 "EUREKA"—Kearns Motor Buggy Co.
 "EWING"—Cleveland Auto Cab Co.
 "FARMERS"—International Harvester Co. of America
 "FEDERAL"—Rockford Auto & Engine Co.
 "FLYING CHIEFTAIN"—Seagrave Co.
 "FORD"—Ford Motor Co.
 "FRANKLIN"—Franklin, H. H. Mfg. Co.
 "FRAYER-MILLER"—Lear, O. S. L. Auto Co.
 "FRITCHLE"—Fritchle Automobile & Battery
 "FRONTENAC"—Abendroth & Root Co. Co.
 "FULLER"—Angus Auto Ca.
 "GAETH"—Gaeth Automobile Co.
 "GALE"—Western Tool Works
 "GARY"—Gary Taxicab Co.
 "GEARLESS"—Gearless Motor Car Co.
 "GLIDE"—Bartholomew Co.
 "GRABOWSKY"—Grabowsky Power Wagon Co.

"GRAMM-LOGAN"—Gramm-Logan M. C. Co.
 "GROUT"—Grout Bros. Automobile Co.
 "GYROSCOPE"—Blomstrom Mfg. Co.
 "HALLADAY"—Streator Motor Car Co.
 "HART-KRAFT"—Hart-Kraft Motor Co.
 "HAYDOCK"—Haydock, D. W. Motor Car Mfg. Co.
 "HAYNES"—Haynes Automobile Co.
 "HERSCHMAN"—Columbia Eng. Works
 "HEWITT"—Hewitt Motor Co.
 "HOLSMAN"—Holzman Automobile Co.
 "HUPMOBILE"—Hupp Motor Car Co.
 "INTERNATIONAL"—International Automobile Co.
 "INTER-STATE"—Inter-State Auto Co.
 "IROQUOIS"—Iroquois M. V. Co.
 "ITALA" (Italy)—Itala Importing Co.
 "JACKSON"—Jackson Automobile Co.
 "JEWEL"—Forest City M. C. Co.
 "JOHNSON"—Johnson Service Co.
 "JUVENILE"—American M. W. & A. Co.
 "KANSAS CITY CAR"—Kansas City Motor Car Co.
 "KATO"—Four Traction Auto Co.
 "KISSELKAR"—Kissel M. C. Co.
 "KNOX"—Knox Automobile Co.
 "KUNZ"—Kunz, J. L. M. Co.
 "LAMBERT"—Buckeye Mfg. Co.
 "LANE"—Lane M. V. Co.
 "LANDSEN"—Landsen Co.
 "LEADER"—Columbia Electric Co.
 "LINDSLEY"—Lindsley, J. V. & Co. Dowagum, Mich.
 "LOCOMOBILE"—Locomobile Co. of Am.
 "LOGAN"—Logan Construction Co.
 "LOZIER"—Lozier M. Co.
 "McCUE"—McCue Co.
 "MANHATTAN"—Mack Bros. Co.
 "MARION"—Marion M. C. Co.
 "MARMON"—Nordyke & Marmon Co.
 "MARYLAND"—Sincclair-Scott Co.
 "MASON"—Mason Motor Car Co.
 "MATHESON"—Matheson M. C. Co.
 "MAXWELL"—Maxwell-Briscoe M. Co.
 "MERKEL"—Merkel Motor Co.
 "METEOR"—Meteor Motor Car Co.
 "MICHIGAN"—Michigan A. Co.
 "MIDDLEBY"—Middleby Auto Co.
 "MIDLAND"—Midland Motor Car Co.
 "MILLER"—Miller Motor Car Co.
 "MITCHELL"—Mitchell M. C. Co.
 "MODEL"—Model G. E. Works
 "MOLINE"—Moline Automobile Co.
 "MONARCH"—Monarch Motor Car Co.
 "MONITOR"—Monitor Automobile Works
 "MOON"—Moon Motor Car Co.
 "MORA"—Mora Motor Car Co.
 "MORS" (France)—Mors Auto Co.
 "MORSE"—Easton Machine Co.
 "NATIONAL"—National M. V. Co.
 "NORTHERN"—Northern M. Co.
 "OLDSMOBILE"—Olds Motor Works
 "OAKLAND"—Oakland Motor Car Co.
 "OLYMPIC"—Gearless Motor Car Co.
 "OVERLAND"—Overland A. Co.
 "PALMER-SINGER"—Palmer & Singer Mfg. Co.
 "PEERLESS"—Peerless M. C. Co.
 "PENNSYLVANIA"—Pennsylvania Auto Mo.
 "PETREL"—Petrel Motor Car Co. tor Co.
 "PHOENIX"—Phoenix Automobile Works
 "PIERCE ARROW"—Pierce Arrow Motor Co.
 "PIERCE RACINE"—Pierce Eng. Co.
 "PIGGINS"—Piggins Bros.
 "PITTSBURG SIX"—Fort Pitt M. Mfg. Co.
 "POPE-HARTFORD"—Pope Mfg. Co. (Conn.)
 "POPE-TOLEDO"—Pope M. C. Co. (O.)
 "POPE-TRIBUNE"—Pope Mfg. Co. (Md.)
 "PREMIER"—Premier M. Mfg. Co.
 "PULLMAN"—York Motor Car Co.
 "PUNGS-FINCH"—Pungs-Finch A. & G. E. Co.
 "R & L"—Rauch & Lang Carriage Co.
 "RAINIER"—Rainier Co.
 "RAMBLER"—Jeffrey, T. B. & Co.
 "RANDALL"—Randall, J. V. & Co.
 "RAPID"—Rapid M. V. Co.
 "RAUCH & LANG"—Rauch & Lang Carriage Co.
 "REGAL"—Regal Motor Car Co.
 "RELIABLE DAYTON"—Reliable Dayton M. Co.
 "RELANCE"—Reliance M. V. So. C. Co.
 "REO"—Reo M. C. Co.
 "RICHMOND"—Wayne Works
 "RICKETTS SIX"—Ricketts Automobile Wks.
 "RIVIERA"—Schnader, M. H.
 "ROCKWELL"—Bristol Engineering Corp.
 "ROYAL TOURIST"—Royal Tourist Car Co.
 "RUMBLE"—Earl Motor Car Co.
 "SAURER"—Commercial M. Car Co.
 "SCHACHT"—Schacht Mfg. Co.
 "SELDEN"—Selden Motor Vehicle Co.
 "SHARP ARROW"—Sharp, Wm. H.
 "SILENT KNIGHT"—Knight & Kilbourne
 "SIMPLICITY"—Evansville Automobile Co.
 "SIX-TEEN-SIX"—Winton M. C. Co.
 "SMITH"—Smith A. Co.
 "SOMMER"—Sommer Motor Co.

"SPEEDWAY"—Gas Engine & P. Co., & C. L.
 "SPEEDWELL"—Speedwell Motor Car Co.
 "SPRINGFIELD"—Med-Bow A. Co.
 "ST. LOUIS"—St. Louis M. C. Co. S. & Co.
 "STANDARD"—Standard M. C. Co.
 "STANLEY"—Stanley M. O. Co.
 "STANLEY"—Troy Buggy Works Co.
 "STEARNS"—Stearns, F. B. Co.
 "STERLING"—Elkhart Motor Car Co.
 "STEVENS-DURYEA"—Stevens-Duryea Co.
 "STUDEBAKER"—Studebaker Automobile Co.
 "STODDARD-DAYTON"—Dayton M. C. Co.
 "STURTEVANT"—Sturtevant Mill Co.
 "SUCCESS"—Success Auto Buggy Mfg. Co.
 "SULTAN"—Sultan M. Co.
 "THOMAS"—Thomas, E. R., Motor Co.
 "TIGER"—Earl Motor Car Co.
 "TINCHER"—Tinchler Motor Car Co.
 "TORBENSEN"—Torbensen Motor Car Co.
 "TRIUMPH"—Christopher Bros.
 "VELIE"—Velle Motor Vehicle Co.
 "VICTOR"—Victor Motor Car Mfg. Co.
 "WALTER"—Walter Auto Co.
 "WALTHAM-ORIENT"—Waltham Mfg. Co.
 "WATERLOO"—Cascaden-Vaughn Co.
 "WAYNE"—Wayne Automobile Co.
 "WELCH"—Welch M. C. Co.
 "WHITE"—The White Co.
 "WINTON"—Winton M. C. Co.
 "WOLFE"—H. E. Wilcox M. Car Co.
 "WOODS"—Woods M. V. Co.
 "YALE"—Kirk Bros. A. Co.

*Automobile Electrical Equipment

WESTINGHOUSE ELEC. & MFG. CO.
 Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Automobile Metal Tire Cases

MERCHANT & EVANS CO. (Inc.)
 ("Star"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

*Automobile Parts (Hardened & Ground)

DETROIT SCREW WORKS, 348
 Franklin, Detroit, Mich. (See adv. index, end of book)

*Automobile Parts & Fittings

(See also the Special Article Required; also Automobile Supplies)

ANDERSON FORGE & MACHINE CO.
 271 Guoin, Detroit, Mich. (See adv. index, end of book)

DETROIT SCREW WORKS, 348
 Franklin, Detroit, Mich. (See adv. index, end of book)

KEIM, JNO. R. MILLS (Inc.) (Seamless Cold Pressed Brake Drums, Flanges, Rear Axle Housings, Engine Crank Cases & Engine Pistons), Buffalo, N. Y. (See adv. index, end of book)

LUNKENHEIMER CO. (Lubricators & Fittings). General offices, Beekman & Waverly, Cincinnati, O. (See adv. index, end of book)

MERCHANT & EVANS CO. (Inc.), 517
 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)

MEZGER, C. A. ("Soot Proof" Spark Plug), 203 W 80th, New York. (See adv. index, end of book)

SIMMONS, JNO. CO., 106 Centre, New
 York. (See adv. index, end of book)

VAN DORN & DUTTON CO., 79th, S.
 E. Cleveland, O. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO.
 (Also Carriage Fittings), Worcester, Mass. (See adv. index, end of book)

Automobile Sheet Metal Forms

(See Automobile Stampings)

*Automobile Stampings

MERCHANT & EVANS CO. (Inc.), 517
 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)

WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of book)

*Automobile Sub-Frames

MERCHANT & EVANS CO. (Inc.), 517
Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)

Automobile Supplies

This is a list of jobbing houses only. Manufacturers of parts and supplies will be found classified under the respective names of the articles they make.

American Distributing Co., American Trust bldg, Cleveland, O.
Ames & Wimmer Co., 29 Washington av, Detroit, Mich.
Angier Co., 735 Boylston, Boston, Mass.
Auto Accessories Mfg. Co., 265 Jefferson av, Detroit, Mich.
Auto-Car Equip't Co., 77 Edwards, Buffalo, N.Y.
Auto Equipping Co., 1918 Euclid av, Cleveland, Ohio
Auto Specialty Mfg. Co., Salem, Mass.
Auto Supply Co. (Inc.), 1733 B'way, New York
Autolight & Motor Supply Co., 506 N Broad, Phila., Pa.
Automobile Equipment Co., 260 Jefferson av, Chicago, Ill.
Automobile Equipment Co., Detroit, Mich.
Automobile Supply Co., 1339 Michigan av, Chicago, Ill.
Beckley-Ralston Co., 80 Michigan av, Chicago, Ill.
Behen-Faught Motor Car Equipment Co., 3961 Olive, St. Louis, Mo.
Bi-Motor Equipment Co., 177 Portland, Boston, Mass.
Bliss Supply Co., 815 Long av, Cleveland, O.
Bogen, H. W., 66 Golden Gate av, San Francisco, Cal.
Boston Cycle & Sundry Co., 48 Hanover, Boston, Mass.
Broadway Auto Accessory Co., 53 W 63d, New York
Buick, Thos. D. Co., Flint, Mich.
Cox Brass Mfg. Co., Albany, N. Y.
Champion, Albert Co., 36 Whittier (Rox.)
Dac Automobile Supply House (French), 1739 B'way, New York
Duquet, L. G., 107 W. 36th, New York
Equitable Distributing Co., 24 Columbus av, Boston, Mass.
Excelsior Auto Supply Co., 1436 Michigan av, Chicago, Ill.
Excelsior Supply Co., 233 Randolph, Chicago, Ill.
Franco-American Auto & Supply Co., 1404 Michigan av, Chicago, Ill.
Giannini, G. W., 437 W 42d, New York
Gordon Auto Supply Co., 1024 Boylston, Boston, Mass.
Greiss, Geo. H., 2144 N 2d, Phila., Pa.
Herz & Co., 203 Lafayette, New York
Jaynes Auto Supply Co., 806 Main, Buffalo, N. Y.
Johnson, Iver Sporting Goods Co., 163 Washington, Boston, Mass.
Kansas City Automobile Supply Co., 609 E 15th, Kansas City, Mo.
Kasner, A. H., 152 Church, New York
Kelsey Co., 43 Niagara, Buffalo, N. Y.
Leng's, J. S. Son & Co., 33 Murray, New York
London Auto Supply Co., 2542 Wabash av, Chicago, Ill.
Manhattan Storage Co., 1611 B'way, New York
Manufacturers' Supplies Co., 418 Arch, Phila., Pa.
Miller, Chas. E., 97 Reade, New York
Motor Car Equipmt. Co., 55 Warren, New York

Motor Car Supply Co., 1425 Michigan av, Chicago, Ill.
Motor Parts Co., 25 W 42d, New York
Motorists' Supply Co., 330 Flatbush av, Brooklyn, N. Y.
Mutual Auto Accessories Co., 1937 B'way, New York
National Sales Corporation, 296 B'way, New York
Neustadt Auto & Supply Co., 3953 Olive, St. Louis, Mo.
New York & Brooklyn Automobile Supply Co., 1717 B'way, New York
New York Sporting Goods Co., 17 Warren, New York
Nock, Geo. W. Co., 126 N 4th, Phila., Pa.
O. K. Machine Works, 887 Main, Buffalo, N. Y.
Penn Auto Supply Co., 201 N Broad, Philadelphia, Pa.
Phoenix Auto Supply Co. (Inc.), 3932 Olive, St. Louis, Mo.
Post & Lester Co., Hartford, Conn.
Progressive Cycle & Automobile Supply Co., 81 Chambers, New York
Rubay Auto Ignition & Supply Co. (French), 229 W 54th, New York
Shain, Chas. D., 70 Murray, New York
Sibley & Pitman, 26 Warren, New York
Stevens & Co., 99 Chambers, New York
Storage Battery Supply Co., 239 E 27th, New York
Strang Supply Co., 1912 B'way, New York
Strauss, Joseph & Son, 197 Genesee, Buffalo, N. Y.
Strauss, Matthew, 707 Main, Buffalo, N. Y.
Sussfeld, Lorsch & Co. (French), 37 Maiden la, New York
Thirty-Five-Per-Cent Automobile Supply Co., 83 Chambers, New York
Utility Co., 636 W 44th, New York
Waite Auto Supply Co., 17 Dorrance, Providence, R. I.
Walker, E. C. & Co., 1905 Logan, Louisville, Ky.
Willis, E. J. Co., 8 Park pl, New York
Winn, W. R., 143 Maiden la, New York

*Automobile Tank & Muffler Parts

MERCHANT & EVANS CO. (Inc.), 517
Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of book)

*Automobile Tanks & Mufflers

(See also Mufflers, Automobile; also Tanks)
MERCHANT & EVANS CO. (Inc.), 517
Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

*Automobiles (Commercial)

FAIRBANKS, MORSE & CO., Wabash
av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Automotoneers

Electric Service Supplies Co. (For Street Railway Controller), 1024 Filbert, Phila., Pa.

Awls (Ice)

(See Picks, Ice)

Awls (Scratch, Belt, Etc.)

Arcade Mfg. Co. (Wood Handle & "Serpentine"), Freeport, Ill.
Bemis & Call Hardware & Tool Co., Springfield, Mass.
Billings & Spencer Co. (Belt Awls), Hartford, Conn.
Braunsdorf-Muller Co. (Brad & Marking), Elizabeth, N. J.
Browne & Down Mfg. Co. (Scratch), Meriden, Conn.
Buck Bros, Millbury, Mass.
Dame, Stoddard & Co. (Scratch, Belt, etc.), 370 Washington, Boston, Mass.
Ducharmes & Co., Shelburne Falls, Mass.
Eastham, Henry W., 150 Commercial, Lynn, Mass.
Holt, G. L. (Brad Awls Only), Hartford, Conn.
Jennings, C. E. & Co. (Marking), 42 Murray, New York; Works, Chester, Conn.
Johnson, Wm. (Hedenberg Works) (Belt, Scratch, etc.), Newark, N. J.
Kraeuter & Co., Newark, N. J.
Marlboro Awl & Needle Co., Marlboro, Mass.
Mayhew, H. H. Co., Shelburne Falls, Mass.
Mifflers Falls Co., 28 Warren, New York
Mixer, J. W. Saw Tool Co., Plymouth, Mass.
New England Specialty Co. (Brad Awls), North Easton, Mass.
Peck, Stow & Wilcox Co., 27 Murray, New York
Phoenix Hardware Mfg. Co. (Scratch Only), Homer, N. Y.
Stanley Rule & Level Co. (Scratch, Belt, etc.), New Britain, Conn.
Stortz, Jno. & Co., 210 Vine, Phila., Pa.
Swan, James Co., Seymour, Conn.
Tuck Mfg. Co. (Marking, Brad, Scratch, Plain Belt, Eye Belt, Ice, etc.), Brockton, Mass.
United Awl & Needle Co., Boston, Mass.
Williams & Martin Mfg. Co. (Scratch), Deep River, Conn.

Awning Fixtures

Hartshorn-Stewart Co., Newark, N. J.
Roe, Justus & Sons ("Roe's" Roller), Patchogue, N. Y.

Awning Fixtures (Blind)

Parker Wire Goods Co., Worcester, Mass.
Wire Goods Co. ("North"), Worcester, Mass.

Awning Lines

(See Sash Cords)

Awning Stripes

(See Cotton Duck & Canvas)

Awnings (Corrugated Steel)

(See also Cornices, Galvanized Iron)

AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
CANTON MFG. CO., Canton, O. (See adv. index, end of book)

IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.

EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)

Eller Mfg. Co., 94 E 5th, Canton, O.
Gara, McGinley & Co., 23 S 17th, Philadelphia, Pa.

Harry, O. K. Steel Works, Dallas, Texas.
Mesher, Geo. L. & Co., Evansville, Ind.
Mesher & Bro., 421 S 6th, St. Louis, Mo.

MERRITT & CO., 1024 Ridge av., Phila., Pa. (See adv. index, end of book)

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Ornamental Iron & Wire Co., Portsmouth, Va.
Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.

SMITH, F. P. WIRE & IRON WKS., 100 Lake, Chicago, Ill. (See adv. index, end of book)

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Twichell Iron Co., Kansas City, Mo.

Wheeling Corrugating Co., Wheeling, W. Va.

*Awnings (Venetian)

WILSON, JAS. G. MFG. Co., Chief Office, 3 W 29th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)

Awnings & Tents

(See Tents, Railroad Contractors')

Axe Mfrs.

American Axe & Tool Co. (Chopping, Broad, Boys, Firemans, etc.), Glassport, Pa., & 253 B'way, New York

Bangor Edge Tool Co. (Peavy, Chopping, Stamp, Pole, Hunting, Last Block, Splitting, etc.), Bangor, Me.

Black, John B. ("Wm. Beatty & Sons") Butchers, Killing, Wood Chopping, Boys, Post, Broad, Ship Carpenters, etc.), Chester, Pa.

Bradley's, G. W. Sons (Inc.) (Hand Made, Dock Chopping, Ice, Post, Fire, Broad, etc.), Westport, Conn.

C. A. C. Axe Co., Holbrook, Mass.

Colclesser Bros., El Dorado, Pa.
Collins Co., Collinsville, Conn., & 212 Water, New York

Dunn Edge Tool Co., Oakland, Me.
Emerson-Stevens Mfg. Co., Oakland, Me.

Evansville Tool Works (Broad, Hunters', Boys', Post Hole, Firemen's, etc.), Evansville, Ind.

Findlay Axe & Tool Co., Findlay, O.
Hammond, C. & Son (Boys' & Hunters'), Chicago, Ill.

Hibbard, Spencer, Bartlett & Co. ("O. V. B."), Ogontz, Pa.
Kelly, B. & Co., Belfast, Me.

Kelly Axe Mfg. Co., Charleston, W. Va.
King Axe Co., Oakland, Me.

McKinnon Rockaway Axe Co., Rockaway, N. J.
Mack & Co. ("D. R. Barton") Broad, Chopping, Fire, Ship, etc.), Rochester, N. Y.

Mann Edge Tool Co., Lewistown, Pa.
Mann, Jas. H. (Est. of), Lewistown, Pa.

Marble Safety Axe Co. (Pocket "Marble Safety"), Gladstone, Mich.

Munson Co., Grand Rapids, Mich.
National Tubular Axe Co., Emigsville, Pa.

North Wayne Tool Co. (Hand-made), Hallowell, Me.

Norton Tool Co. (Broad, House, Boys, etc.), West Park, O.

Peck Edge Tool Co. (Broad, Fire, etc.), Cohoes, N. Y.

Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R., Tucker & P. R. R. Fkd, Phila., Pa.

Prouty, C. & Co. (Single & Double Bit), Eldred, Pa.
Rixford Mfg. Co., East Highgate, Vt.

Romer Axe Co., Dunkirk, N. Y.
Standard Axe & Tool Works (Hand Made), Ridgway, Pa.

Warren Axe & Tool Co., Warren, Pa.
Weston, Thos. B., 118 Centre Market Space, Baltimore, Md.

White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
Witham, G. S., Caratunk, Me.

Axes (Firemen's)

American Axe & Tool Co., Glassport, Pa.
Black, Jno. B. ("Wm. Beatty & Sons"), Chester, Pa.

Bradley's, G. W. Sons (Inc.), Westport, Conn.
Evansville Tool Co., Evansville, Ind.

Kelly Axe Mfg. Co., Charleston, W. Va.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.

Axes (Ice)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York

Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.

Bradley's, G. W. Sons (Inc.), Westport, Conn.
Evansville Tool Works, Evansville, Ind.

Gerlach, Peter Co., Columbus rd & Winter, Cleveland, O.

Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.

Hiles, C. A. & Co., 14th & Western av., Chicago, Ill.

Hubbard & Co., 62d & Butler, Pittsburgh, Pa.
Norton Tool Co., West Park, O.

Peck, Stow & Wilcox Co., Southington, Conn.
Stortz, John & Son, 210 Vine, Phila., Pa.

United States Edge Tool Co., Cattaraugus, N. Y.
White, L. & I. J. Co., Buffalo, N. Y.

Axes (Stone Workers')

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.

Beall Bros. (Inc.), Alton, Ill.
Evansville Tool Works, Evansville, Ind.

Hammond, O. & Son, Ogontz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.

Hauck, Wm. J., 306 Southwest boul, Kansas City, Mo.
Hubbard & Co., Pittsburgh, Pa.

Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburgh, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburgh, Pa.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.

Axe Cutter & Screw Plate (Combined)

Holroyd & Co. ("Dalton"), Waterford, N. Y.

*Axe Lighting Equipment ("Bliss System")

BLISS ELECTRIC CAR LIGHTING Co., Milwaukee, Wis. (See adv. index, end of book)

Axles (Automobile)

(See also Axles, Ball or Roller Bearing)

American Ball Bearing Co., Edgewater Park at L. S. & M. S. R'y, Cleveland, O.

Billings & Spencer Co., Hartford, Conn.
Carpenter Steel Co. (Nickel Chrome Steel), Reading, Pa.

Case Mfg. Co., Columbus, O.
City Machine & Mfg. Co., 9 Orchard, Detroit, Mich.

Cleveland Axle Mfg. Co., Canton, O.
Consolidated Mfg. Co., Fernwood av & L. S. & M. S. R'y, Toledo, O.

Cramp, Wm. & Sons Ship & Engine Casting Co., Beach & Ball, Phila., Pa.

Diamond Chain & Mfg. Co., 260 W Georgia, Indianapolis, Ind.

Elyria Machine Parts Co., Elyria, O.
Garford Co., Elyria, O.

Gill, P. H. & Sons Forge & Machine Works, Loraine & Otsego, Brooklyn, N. Y.

Hussey Drop Forge & Mfg. Co., Axtell c Osage, Cleveland, O.

MERCHANT & EVANS CO. (Inc.), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)

Salisbury Wheel & Mfg. Co. (Wheels & Axles), Jamestown, N. Y.

Smith, A. O. Co., Clinton bet. Park & Va., Milwaukee, Wis.

Standard Roller Bearing Axle Co., N 48th av & Girard av, Philadelphia, Pa.

Timken Roller Bearing Axle Co., Canton, O.

VAN DORN & DUTTON CO., 2714 E 79th S E, Cleveland, O. (See adv. index, end of book)

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.
Weston-Mott Co., Utica, N. Y.

Axles (Ball or Roller Bearing)

(See Wheels & Axles, Ball or Roller Bearing)

Axles (Car & Locomotive)

(See also Axles, Mine Car)

American Bridge Co., Pittsburg, Pa., & 30 Church, New York

American Car & Foundry Co. (Car, Locomotive & Mine Car), 915 Olive, St. Louis, Mo., & 165 B'way, New York

Baltimore Car-Wheel Co. (Car Only), Fulton Station, Baltimore, Md.

Bass Foundry & Machine Co. (Iron & Steel Car, Driving, etc.), Ft. Wayne, Ind.

Bethlehem Steel Co. (Nickel Steel, Car, Locomotive, etc.), South Bethlehem, Pa.

Block-Pollak Iron Co. (Car, Locomotive & Driving), Carthage, Cincinnati, O.

Boston Forge Co. (Tender, Truck & Driving), 340 Maverick, E. B., Boston, Mass.

Brill, J. G. Co. (Street Car), 62d & Woodland av, Phila., Pa.

Cambria Steel Co. (Also Mine Car Axles, all of Forged Open-Hearth Steel), Arcade bldg, Phila., Pa.

Carbon Steel Co. (Nickel Steel, Car, Locomotive, etc.), 32d & Smallman, Pittsburg, Pa.

Carnegie Steel Co. (Car, Locomotive, etc.), General Offices: Carnegie bldg, Pittsburg, Pa.

Cleveland City Forge & Iron Co. (Locomotive, Car, etc.), Lakeside av opp E 45th, N E Cleveland, O.

Cole Mfg. Co. (Locomotive & Street Car), Lakeport, N. H.

Georgia Foundry & Mach. Works (Street Car), Rome, Ga.

Gould Coupler Co. (Car & Locomotive), 345 5th av, New York

Griffin Wheel Co., 138 Jackson boul, Chicago, Ill.

Gustafson Mfg. Co. (Mine Car), Chattanooga, Tenn.

Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Liggett Spring & Axle Co., Monongahela, Pa.

Midvale Steel Co. (Nickel Steel, Locomotive, Tender, Truck & Car), Nicetown, Phila., Pa.

Otis Steel Co. (Locomotive, Car, etc.), Cleveland, O.

Penn Iron Co. (Hammered & Rolled), Lancaster, Pa.

Penna Steel Co., Girard bldg, Philadelphia, Pa.; Works: Steelton, Pa.

Pittsburg Forge & Iron Co. (Locomotive, Car, etc.), 1003 Penna av, Pittsburg, Pa.

Portland Co., Portland, Me.

Reading Iron Co. (Driving, etc.), Reading, Pa.

St. Louis Steam Forge & Iron Works (Locomotive, Car, etc.), East St. Louis, Ill.

Sizer Forge Co. (Locomotive, Car, etc.), Buffalo, N. Y.

Southern Steel Co., Birmingham, Ala.

Standard Forgings Co., Chicago, Ill.

Standard Steel Works (Car & Locomotive), Harrison bldg, Philadelphia, Pa.

Taylor Iron & Steel Co. (Car, Locomotive, etc.), High Bridge, N. J.

Titusville Forge Co., Titusville, Pa.

Tredegar Co. (Car), Richmond, Va.

Union Drawn Steel Co. ("Caronly"), Beaver Falls, Pa., & 460 Washington, New York

Western Steel Car & Foundry Co. (Freight Car Axles Only), Old Colony bldg, Chicago, Ill.

Willard Sons & Bell Co., 98th & Erie, Chicago, Ill.

Axles (Carriage & Wagon)

(See also Axles of Various Kinds)

American Axle Works, 1116 Montgomery av, Phila., Pa.

American Tubular Axle Co. (Tubular Steel Wagon Axles Only), Toledo, O.

Ansted Spring & Axle Co., Connersville, Ind.

Bailey, S. R. & Co., Amesbury, Mass.

Bettendorf Axle Co. (Wagon Only), Davenport, Iowa

Block Axle Co., Mobile, Ala.

Chicago Screw Co. (Ball Bearing), Chicago, Ill.

Cleveland Axle Mfg. Co. (Wagon), Canton, O.

Concord Axle Co. (& Wagon, also Brown's Roller Bearing Axles), Penacook, N. H.

Crucible Steel Company of America, Pittsburg, Pa.

Cook, Willis Miller, Mt. Carmel Centre, Conn.

Dalzell Axle Co. (& Wagon), South Egremont, Mass.

Drummond Mfg. Co., Louisville, Mass.

Durant-Dort Carriage Co., Flint, Mich.

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

ELECTRIC WHEEL CO. (Wagon Axles Only), Quincy, Ill. (See adv. index, end of book)

Gardner's, F. Sons, Carlisle, Pa.
Grant Axle & Wheel Co. (Roller Bearings), Springfield, O.
Hay, Houston Axle Co., Coshocton, O.
Hess Spring & Axle Co., Carthage, Cincinnati, O.
Higgins Spring & Axle Co., Racine, Wis.
Hutchinson, Jno. Mfg. Co. (Roller Bearing), Jackson, Mich.
Kalamazoo Spring & Axle Co., Kalamazoo, Mich.

Keagy & Lear Machine Co., Coshocton, O.
Keystone Axle Works, 33d & A. V. R'y, Pittsburgh, Pa.
Lee & Porter ("Standard" Half Patent, "Concord" Express, "Collinge" Collar, "Porter" 2,500 Mile), Buchanan, Mich.

Lewis Spring & Axle Co., Jackson, Mich.
Liggett Spring & Axle Co., Monongahela, Pa.
Meeker Mfg. Co. (Ball Bearing), Dayton, O.
Mulholland Co. (Ball Bearing), Dunkirk, N. Y.
Nunning, Frank & Son, 215 W 2d, Cincinnati, Ohio
Parry Mfg. Co., Indianapolis, Ind.
Scranton Axle Works, Scranton, Pa.
Sheldon Axle Co. (Anchor Brand), Wilkes-Barre, Pa.
Spears Axle Co., Wheeling, W. Va.
Standard Roller Bearing Co., 48th & Girard av., Philadelphia, Pa.
Union Drop Forge Co., Chicago, Ill.
Weston-Mott Co., Flint, Mich.
Wilcox, D. Mfg. Co. (Bike, Wagon, etc.), Mechanicsburg, Pa.

Wood, Smith & Co., Chicago, Ill.
Wurster, F. W. & Co., 375 Kent av., Brooklyn, N. Y.

Axles (Children's Carriage)

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
Wagner, E. R. Mfg. Co., North Milwaukee, Wis.

Axles (Mine Car)

(See also Axles, Car & Locomotive; also Wheels, Mine Car)

Akron Foundry Co., Akron, O.
American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
Archer Iron Works Co. (Self-Oiling), 1st Nat'l Bank bldg, Chicago, Ill.
ATLAS CAR & MFG. CO., THE, 1289 Marquette rd, W E, Cleveland, O. (See adv. index, end of book)
Cleveland City Forge & Iron Co., Cleveland, O.
Gustafson Mfg. Co., Chattanooga, Tenn.
Irwin Foundry & Mine Car Co., Irwin, Pa.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
Peacock's Iron Works, Selma, Ala.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Quincy, Manchester, Sargent Co., Plainfield, N. J.
Scott's Patent Brick Car Co., Knoxville, Tenn.
Sheffield Car Co., Three Rivers, Mich.
Vulcan Iron Works, Wilkes-Barre, Pa.
Watt Mining Car Wheel Co., Barnesville, O.
Willard Sons & Bell Co., 98th & Erie av, Chicago, Ill.

Axles (Roller Bearing)

(See Axles, Ball or Roller Bearing)

Axles (Street Car)

(See also Wheels, Street Car; also Trucks, Car, Steam & Electric)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York
Baltimore Car Wheel Co., Baltimore, Md.
Bass Foundry & Machine Co., Fort Wayne, Ind.
Bethlehem Steel Co., South Bethlehem, Pa.
Brill, J. G. Co., 62nd & Woodland av, Phila., Pa.
Cambria Steel Co., Arcade Bldg, Phila., Pa.
Carbon Steel Co., Pittsburgh, Pa.
Carnegie Steel Co., Pittsburgh, Pa.
Cleveland City Forge & Iron Co., Cleveland, O.
Curtis Motor Truck Co., Decatur, Ill.
Eccles & Smith Co., San Francisco, Cal.
Griffin Wheel Co., Sacramento av, & C & N W Ry, Chicago, Ill.
Jones & Laughlin Steel Co. (Cold Rolled Steel), Pittsburgh, Pa.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
McGuire-Cummings Mfg. Co. (Special Truck Bar Iron & Steel Locomotive Axles), 122 N Sangamon, Chicago, Ill.

Pennsylvania Steel Co., Girard Trust Bldg, Phila., Pa.
Pittsburg Forge & Iron Co. (Hammered), Pittsburgh, Pa.
St. Louis Car Co., 8,000 N B'way, St. Louis, Mo.
Standard Forgings Co., Railway Exchange, Chicago, Ill.
Standard Steel Works, Harrison Bldg, Phila., Pa.
Taylor Electric Truck Co., Pa.
Union Drawn Steel Co. ("Glendon"), Beaver Falls, Pa.

Axles & Shafts (Hollow)

Bethlehem Steel Co., South Bethlehem, Pa.
American Tubular Axle Co. (Carriage & Wagon, etc.), Toledo, O.

Babbitt Metal

(See also Bearings of Various Kinds)

ALABAMA.

BIRMINGHAM—Ajax Metal Co. (of the South)

CALIFORNIA.

SAN FRANCISCO—Finn, Jno. Metal Works, 384 Second
Garratt, W. T. & Co., 140 Fremont
Great Western Smelting & Refining Co., 75 Pacific Metal Works, 153 1st Folsom
Selby Smelting & Lead Co., 416 Montgomery

COLORADO.

DENVER—Bogue Lead Co.
Peerless Alloy Co.
Slack, Ben F. Brass Mfg. Co.
TRINIDAD—Trinidad Foundry & Machine Works

CONNECTICUT.

BRIDGEPORT—Bridgeport Deoxidized Bronze Rowell, W. G. Co. Metal Co.
Sanford, David C. Co.
HARTFORD—Blake, Edwin J.
NEW HAVEN—Graham, Jas. & Co.

ILLINOIS.

AURORA—Aurora Metal Co. (Brand "R. R.")
CAIRO—Reed, Joseph B.
CHICAGO—Blatchford, E. W. Co., 70 N Clinton
CARPENTER, GEO. B. & CO., 202 S Water. (See adv. index, end of book)
Channon, H. Co. ("Quoke"), 32 Market
Great Western Smelting & Refining Co., 179 W Kinzie
Hewitt Mfg. Co., 303 Railway Ex.
Illinois Smelting & Refining Works, 122 N Peoria
Kramer, H. & Co. (In Pig), 353 S Canal
MERCHANT & EVANS CO. (Inc.), (of Philadelphia, Pa.), 113 N Sheldon. (See adv. index, end of book)
Monarch Metal Co., 156 S Lincoln
National Lead Co., (of New York), 1510 State
Palmeto Metal Co. ("Palmeto"), 586 W Lake
Raymond Lead Co. (Aluminum, Copper, etc.), 51 W Lake
Ryan, J. J. & Co., 105 S Jefferson
Ryerson, Jos. & Son ("Glyco," Bearing Metal & Skeleton Bearing Construction)
U. S. Reduction Co. ("Advance"), 56 Law av

INDIANA.

MISHAWAKA—Dodge Mfg. Co.

KENTUCKY.

LOUISVILLE—Belknap Hdw. & Mfg. Co.
Kentucky Saw Works
National Lead Co. (of New York), 101 9th

LOUISIANA.

NEW ORLEANS—Nelson, A. J. Mfg. Co. (Ltd.), 1001 Howard av
New Orleans Roofing & Metal Works, 926 Lafayette

MARYLAND.

BALTIMORE—Schultz, A. & Co. ("Eureka"), 1015 E Fayette
MERCHANT & EVANS CO. (Inc.), (of Phila., Pa.), 232 St. Paul. (See adv. index, end of book)

MASSACHUSETTS.

BOSTON—Blaney, Cyril C., 280 Devonshire
Chadwick-Boston Lead Co., 162 Congress
Herrick Co., 49 Broad
Mowry & Phillips, 212 Camden

National Lead Co. (of Mass.), 57 Broad
Priest, Page & Co., 143 Franklin
Star Refining Co., 50 State
FITCHBURG—Hardy, William A. & Sons Co.
Welch, E. J. & Co. ("S. S." Metal)
LOWELL—Nichols Foundry Co.
WORCESTER—Kindred & Taylor

MICHIGAN.

DETROIT—Bostwick, Jas. M. Co., 372 Abbott
Muzzy-Lyon Co. ("Mogul"), 149 W Larned
National-Fulton Brass Mfg. Co., 22 Brush
National Lead Co. (of New York), 81 W Woodbridge
Wing, J. T. & Co., 19 Woodward av
GRAND RAPIDS—Hayden, J. M. & Co. ("Globe")
KALAMAZOO—New Era Mfg. Co. (White Bronze)

MINNESOTA.

MINNEAPOLIS—National Brass & Metal Co., ("Hodge's"), 258 3d av, S
ST. PAUL—Northwestern Shot & Lead Works, 90 W Fairfield av

MISSOURI.

KANSAS CITY—Kansas City Lead & Metal Works, 1407 Wyandotte
MERCHANT & EVANS CO. (Inc.), (Of Phila., Pa.), 2008 Baltimore av. (See adv. index, end of book)
Rogers Metal Works
ST. LOUIS—Gilbert, A. & Sons Brass Foundry Co. ("Jovian," "Velox"), 4015 Forest Park boul
Hiertz, Theo. Metal Co. ("Nonpareil"), 10th & Poepping
Hoyt Metal Co. ("Standard"), Merchants-Laclede bldg
More-Jones Brass & Metal Co. ("Hoo-Hoo," "Universal," "Motor," "Crescent," "Rex," "Regent"), 3144 N B'way
National Lead Co., 1001 Clark av
Rumsey, L. M. Mfg. Co., 806 N 2d
Street, J. D. Co. ("Majestic," "Horse Shoe," "Gem," "Giant"), 809 N 2d
Zelnicker, Walter A. Supply Co. ("Zelnicker")

NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co., ("Perfection")
BLOOMFIELD—Hudson Rolling Mill Co. ("Signal" Nickel Hardened Deoxidized Babbitt)
GLEN RIDGE—Benson, H. K. & F. S. ("B. & M.")
HOBOKEN—Lehman Bros.
JERSEY CITY—Brady Brass Co. ("Cyprus")
Magnus Metal Co., Brunswick c 9th
Williams, E. A. & Son, 105 Plymouth
NEWARK—WALSH'S SONS & CO. (See adv. index, end of book)
PERTH AMBOY—Hoyt Metal Co. (of St. Louis, Mo.)
RIVERSIDE—Riverside Metal Co.

NEW YORK.

BUFFALO—LUMEN BEARING CO. ("Lotus," "Plumbic Bronze.") (See adv. index, end of book)
Robson Smelting Co., B'way & Lathrop
Runskool Metal Co. ("Runskool," "Flexor," "Real Good," "Pretty Good"), 1095 Niagara

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Lissberger, Marks & Son ("Zest"), 281 Borden av
MERCHANT & EVANS CO. (Inc.), (of Phila., Pa.), 584 Flushing av. (See adv. index, end of book)
Syracuse Smelting Works, 28 Dobbin

Boroughs of Manhattan & Bronx.

NEW YORK—Allan, A. & Son ("Allan's" Red Anti-Friction Metal), 486 Greenwich
American Metal Co., 52 B'way
American Metal Co., 52 B'way
Columbia Smelting & Refining Works, 365 West
Fabrigh Metal Co. ("Fabrigh"), 316 Hudson
Lissberger, Benjamin, 738 E 14th
Long & Stillman, 149 B'way
Lubricating Metal Co. ("Noheet"), 141 B'way
Magnolia Metal Co. ("Adamant," "Defender" & "Mystic"), 113 Bank
Magnus Metal Co., 111 B'way
MERCHANT & EVANS CO. (Inc.), (of Phila., Pa.), 242 Water. (See adv. index, end of book)
Morris, E. P. Co. ("Delos"), 72 Trinity pl.

Nassau Smelting & Refining Works ("Edison" & "Monarch"), 603 W 29th National Lead Co. ("Phoenix"), 100 William Ohio Brass Co. (of Mansfield, O.), 30 Church
Pittsburg White Metal Co. (of Pittsburg, Pa.), 160 Leroy
Post, E. L. & Co. ("Post's Zero," Motor Metal), 50 Cliff
Syracuse Smelting Works (Manganese, Babbitt, etc.), 36 10th av
Wildes, Thomas ("Excelsior" & "Semper Idem", Linotype, Electrotype, Stereotype, Antoplate & other metals), 246 Water
(End of New York City)
ROCHESTER—Clum & Atkinson ("Plata" White Brass, "Superior," "Genuine," "Standard" & "Gas Engine")
Hazard, Coates & Bennett Co.
Rochester Lead Works, 380 Exchange
Wray, Henry & Son, 193 Mill
SYRACUSE—Empire Metal Co.

OHIO.

CINCINNATI—American Valve & Meter Co. ("Paragon"), 1121 Gest
Cincinnati Metal Co., 602 Walnut
McGowan, Jno. H. Co., 54 Central av
Morris, E. K. & Co., 315 W 2d
National Lead Co., (of New York), 7th & Freeman av
Van Duzen, E. W. Co. ("Buckeye"), 428 E Wolff Metal Co., 1803 John 2d
CLEVELAND—Ideal Bronze Co., 1265 E 55th Metal Sales Co. ("Renown"), Citizens bldg
National Lead Co., (of New York), Champlain, Junc. Canal
COLUMBUS—New Process Metal Co.
DAYTON—Buckeye Iron & Brass Works (High Ebberts Bros., 916 E 3d Grade)
MANSFIELD—Ohio Brass Co.
TOLEDO—Toledo Saw Co.
YOUNGSTOWN—Falcon Bronze Co.

OREGON.

PORTLAND—Pacific Metal Works (of San Francisco, Cal.), 73 2d

PENNSYLVANIA.

ALLEGHENY—Damascus Bronze Co.
CHESTER—Crown Smelting Co.
ERIE—Erie White Metal Co.
NORTH EAST—Eureka Tempered Copper Works ("Eureka")
PHILADELPHIA—Ajax Metal Co., 48 Richm'd Atlas Smelting & Refining Co., 1008 G'tn Bond, Chas. Co., 518 Arch. av
Delaware Metal Refinery, 1036 S 18th
Fullerton, Frank S., 438 E Girard av
Goldstein's, L. Sons, 1038 N Front
Hagstoz, T. B. Co. (Ltd.), 709 Sansom
King, Jno. Smelting Works, 1330 S 18th
Lewis, Jno. T. & Bros. Co., 231 S Front
Lukens, Thos. F. Metal Co. ("Lukens," "Viking," "Queen Bee"), 238 N 4th
McHatton Smelting Co., 1500 Washington av
MERCHANT & EVANS CO. (Inc.) ("Universal," "Iridium"), 517 Arch. (See adv. index, end of book)
North American Smelting Co., 900 Thompson
Pearl Smelting & Refining Works, 2507 E Cumberland
Peerless Smelting & Refining Co. ("Rainbow" Linotype, Monotype, Stereotype, Electrotype & Other Metals), Allegheny av & Richmond
Penn Smelting & Refining Co., 906 Filbert
Phillips, F. R. & Sons Co. ("Zero" & "Motor"), Penna bldg
Reeves, Paul S. & Son, 1415 Catharine
Rosenthal's, Joseph Sons, 190 Berks
Star Smelting & Refining Co., 134 Washington av
Taylor, N. & G. Co., Mariner & Merchants bldg
U. S. Smelting Works, 1613 Spring Garden
White & Bro., 1505 E Montgomery av
Woodfall Bros., 1105 Fairmount av
PITTSBURG—Cadman, A. W. Mfg. Co. ("Acorn" & "Cadman's" Aluminium), 2814 Smallman
Keystone Bronze Co., 38th & A. V. Ry.
LAWRENCEVILLE BRONZE CO., Penn av & 31st. (See adv. index, end of book)
National Lead & Oil Co. (of Pa.), Second Nat'l B'k bldg
Pittsburg Brass Mfg. Co. ("Mansfield"), 3153 Penn av
PITTSBURGH GAGE & SUPPLY Co. ("Paramount," "Copper Alloy" & "Helmet"), 30th & Liberty av. (See adv. index, end of book)

Pittsburg White Metal Co., 3116 Penn av
WESTINGHOUSE ELECTRIC & Mfg. Co., Union Bank bldg. (See adv. index, end of book)

READING—Excelsior Brass Works

TENNESSEE.

CHATTANOOGA—Frictionless Metal Co.
MEMPHIS—Lee Bros.

VIRGINIA.

RICHMOND—Glacier Metal Co.

WASHINGTON.

SEATTLE—Finn, Jno. Metal Works
TACOMA—Puget Sound Metal Works

WEST VIRGINIA.

WHEELING—Wheeling Metal & Mfg. Co.

WISCONSIN.

MILWAUKEE—Milwaukee Tack Co. ("Misco")

Babbitt Metal Melters

(See Furnaces, Babbitt Melting)

Badges (Conductor, Police, Etc.)

Hanson, C. H., 44 Clark, Chicago, Ill.
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Badges & Numbers

AMERICAN RAILWAY SUPPLY CO., 26 Park pl., New York. (See adv. index, end of book)
Blackington V. H. & Co., Attleboro, Mass.
Childs, S. D. & Co., 200 Clark, Chicago, Ill.
International Register Co. ("Heeren"), 124 W Jackson boul., Chicago, Ill.
Koch, Gustav & Co., 64 Dearborn, Chicago, Ill.
Meyers, Fred J. Mfg. Co., Hamilton, O.
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
Recording Fare Register Co., New Haven, Conn.
Robbins, Jno. Mfg. Co., Boston, Mass.
Stedman, J. H., Rochester, N. Y.
Tenney, J. F. Co., 152 Lake, Chicago, Ill.
Wilcox, W. W. & Co., 201 Lake, Chicago, Ill.
Woodman, R. Mfg. & Supply Co., Boston, Mass.

Baggage Checks

(See Checks, Baggage; also Checks & Check Blanks, Brass)

Bag Mfrs. (Paper)

Cleveland-Akron Bag Co., Cleveland, O.
Continental Paper Bag Co., 6 Battery pl, New York
Milwaukee Bag Co. (For Cement, Lime, etc.), Milwaukee, Wis.
Taggart Bros. Co. (Cement, Flour, etc.), Wauertown, N. Y.
Urschel-Bates Valve Bag Co. (For Cement, Lime, etc.), Toledo, O.
West Jersey Paper Mfg. Co. (For Cement, Lime, etc.), Camden, N. J.
Woodville White Lime Co. (Cement, Lime & Flour), Toledo O.

Bag Mountings

Conlan, Bernard (For Belts, Buckles, Purses, Ornaments, etc.), Newark, N. J.
Gould's, M. Son Co., 61 Hamilton, Newark, N. J.
Jenkinson, R. O. & Co., Newark, N. J.

Bags (Coal & Coke)

Ballou Mfg. Co. (& Canvas Baskets), Belding, Mich.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
Coye, Charles A., Grand Rapids, Mich.
Lane, W. T. & Bro., Poughkeepsie, N. Y.

Bags (Filter)

Brooklyn Filter Bag Co., Brooklyn, N. Y.
Milwaukee Bag Co., Milwaukee, Wis.

Bags (Gas Engine)

Morgan & Wright (Inc.), Detroit, Mich.

Bags (Striking)

Chicago Sporting Goods Mfg. Co. ("Ratsch-Peerless" Leather), Fulton & May, Chicago, Ill.
Cleveland Rubber Works (Rubber), Cleveland O.
Goodrich, B. F. Co. (Rubber), Akron, O.
Morgan & Wright (Inc.) (Rubber), Detroit, Mich.
Rubber Products Co. (Rubber), Barberton, O.

Bags (Travelling)

(See Traveling Bags & Suit Cases)

Bags (Striking, Rubber)

Cleveland Rubber Co., Cleveland, O.
Faultless Rubber Co., Ashland, O.
Goodrich, B. F. Co., Akron, O.
Morgan & Wright (Inc.), 226 Jefferson av, Detroit, Mich.
Rubber Products Co., Barberton, O.

Bags & Bagging

(Those Marked with a † Dagger Make Bagging also)

Adams Bag Co. (Cement, Flour, etc.), Caxton bldg, Cleveland, O.
†American Mfg. Co. (Jute Bagging), 63 Wall, New York
Ames, Harris, Neville Co., Portland, Ore.
†Androscoggin Mills (Grain, etc.), Lewiston, Me.
Bailey, Christopher & Son, 320 Market, Phila., Pa.
†Bailey, John T. & Co. (Jute & Burlap, Bags Bagging), S Water & Morris, Phila., Pa.
Bates Mfg. Co. (Grain), Lewiston, Me.
Bemis Bros. Bag Co. (Jute & Duck; also Ore Bags, etc.), 601 S 4th, St. Louis, Mo.
Bowen-Jewell Co. (Cotton), Chattanooga, Tenn.
Buffalo Bag Co., Buffalo, N. Y.
California Cotton Mills Co. (Cotton Bags), Oakland, Cal.
California Jute Mill Co. (Grain, Sugar, Coffee & Wool Bags), 3 California, San Francisco, Cal.
†Charleston Bagging Mfg. Co. (Cotton & Jute Bagging), Charleston, S. C.
Cleveland-Akron Bag Co., Cleveland, O.
Chase, H. & L. Bag Co. (Bags), 18 N Main, St. Louis, Mo.
Chelsea Fibre Mills (Seamless Bags), 33 Union sq, New York
Cherokee Falls Mfg. Co. (Seamless Grain), Cherokee Falls, S. C.
Cincinnati Bag Co. (Cotton Seamless & Burlap), 2d & Walnut, Cincinnati, O.
Collins Bag Co. (Jute & Cotton), 84 White, New York
†Columbia Cotton Mill Co. (Seamless Bags & Bagging), Columbia, Tenn.
Columbia Paper Bag Co. (Paper Only), Baltimore, Md.
Consolidated Cotton Duck Co. (Seamless Grain, etc.), Baltimore, Md.
Continental Paper Bag Co., 6 Battery pl, New York
†Dana Warp Mills (Grain Bags), Westbrook, Me.
Delta Bag Co., New Orleans, La.
Detroit Bag Co. (Burlap, Paper, Twine), Detroit, Mich.
Dickinson, Albert Co., West Taylor & River, Chicago, Ill.
Eagle Cotton Mills Co. (Cotton), Madison, Ind.
Empire State Bag Co. (Flax & Jute Bags & Bagging), 742 Wythe av, Brooklyn, N. Y.
Freedlander, Julius & Co. (Cotton Bagging), Columbus, Ga.
Fulton Bag & Burlap Co., St. Louis, Mo.
†Fulton Bag & Cotton Mills (Bags & Bagging), Atlanta, Ga.
Gaylord Bros. (Cloth Coin), Syracuse, N. Y.
Golden Belt Mfg. Co. (Tobacco Bags, etc.), Durham, N. C.
Goldsmith Mfg. Co. (Burlap & Cotton), Charleston, S. C.
†Gulf Bag Co., (Burlap), 330 Notre Dame, New Orleans, La.
Halsted, E. S. & Co., 75 Pearl, New York
Hardwood Mfg. Co., 101 S 3d av, Minneapolis, Minn.
†Harmony Mills (Grain & Bagging, etc.), Cohoes, N. Y.
Hettrick Bros. Co. (Cotton), Toledo, O.

Hoffman-Corr Mfg. Co., 55 White, New York
King Mfg. Co. (Cotton, Burlap, etc.), Front & Main, Cincinnati, O.
Kurtz Bag Co., 11 Coenties st, New York
Lane, J. H. & Co., 110 Worth, New York
Little Rock Tent & Awning Co. (Cotton Picking), Little Rock, Ark.
Ludlow Mfg. Associates (Jute Bagging for Baling Cotton), Boston, Mass.
†Mente & Co., Board of Trade bldg, New Orleans, La.

Millhiser Bag Co., Richmond, Va.
Milwaukee Bag Co. (Cotton & Jute, Sugar & Cement Bags, Flour Sacks & Burlaps), Milwaukee, Wis.

Monville, Gilles & Co. (Burlap), 781 S 2d, Philadelphia, Pa.
Morgan & Hamilton Co., Nashville, Tenn.

†Naomi Falls Mfg. Co. (Seamless Grain, Salt, etc.), Randleman, N. C.
Neahr, M. J. & Co., 89 S. Clinton, Chicago, Ill.
Noon, W. C. Bag Co. (Grain, etc.), Portland, Ore.
†Odell Mfg. Co. (Seamless Bags & Bagging), Concord, N. C.

Paper Mills Co. (Paper), 600 E Lombard, Baltimore, Md.

Peru Bagging Mfg. Co. (Jute Bagging), Peru, Ind.

Ray, Edgar K. (Est. of) (Seamless), Woonsocket, R. I.

Raymond Bag Co. (Cotton), 317 John, Cincinnati, O.

Riegel Sack Co. (Jute), Jersey City, N. J.

Riverside Mills (Cotton), Augusta, Ga.

Royal Bag & Yarn Mfg. Co. (Seamless & Flour Bags), Charleston, S. C.

Scott, Jas. & Son (Burlap), 73 Leonard, New York

St. Louis Bag & Burlap Co. (Jute), 307 N Main, St. Louis, Mo.

Smith, M. D. & H. L., Dalton, Ga.

†Stark Mills (Grain Bags; also Bagging, etc.), Manchester, N. H.

State Penitentiary Jute Mill (Jute Bags, etc.), Walla Walla, Wash.

Taggart Bros. Co. (Paper, Cement & Flour), Watertown, N. Y.

Tarentum Paper Mills, Pittsburgh, Pa. Mills, Tarentum, Pa.

Tombigbee Cotton Mills (Cotton), Columbus, Miss.

Urschet-Bates Valve Bag Co. (For Lime, Cement, Plaster, Feed etc.), Toledo, O.

Walker, J. S. & Co., Louisville, Ky.

WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

†Willard Bag & Mfg. Co. (Burlap & Cotton Bags & Bagging), Wilmington, N. C.

Bails (Universal)

Albree, Chester B. Iron Works, Allegheny, Pa.

Balances (Assay & Analytical)

Ainsworth, Wm. & Sons, Denver, Colo.
Denver Balance Co., Denver, Colo.
Elmer & Amend, 205 3d av, New York
Fairbanks Co., 186 Lafayette, New York
Kohlbusch, Herman, 194 B'way, New York
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

Salt Lake Hardware Co. ("Keller"), Salt Lake City, Utah

Thompson Balance Co., Denver, Colo.

Troemner, Henry, 911 Arch, Phila., Pa.

Voland & Sons, New Rochelle, N. Y.

Balances (Spring)

American Cutlery Co., 193 Mather, Chicago, Ill.
Bridgeport Brass Co., Bridgeport, Conn.
Chatillon, Jno. & Sons, 85 Cliff, New York
Forschner, Chas. & Sons, 206 E 19th, New York
Landers, Frary & Clark, New Britain, Conn.
Peck Stow & Wilcox Co., Southington, Conn.
Pelouze Scale & Mfg. Co., 118 W Jackson boul, Chicago, Ill.
Sargent & Co., 151 Leonard, New York

Ball Retainers

Sartus Ball Bearing Co., 155 Spring, New York
Star Ball Retainer Co., Lancaster, Pa.

Ballast Balls for Buoy

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa., & 149 B'way, New York

Ballast Loaders & Unloaders

Beatty, M. & Sons, Welland, Ontario, Can.
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Marlon Steam Shovel Co., Marlon, O.
SHAW, WILLIS CO., 171 Sa Salle, Chicago, Ill. (See adv. index, end of book)
Vulcan Iron Works Co., Toledo, O.

Ballast Placing Device

Walters & Okell ("Walker"), Fort Madison, Iowa

*Ballast Plants

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Ballast (Railroad)

(See Stone, Crushed)

Balloons (Rubber)

Faultless Rubber Co., Ashland, O.

Ballot Boxes (Steel & Wood)

(See also Election Booths)

American Steel House Co., 796 11th av, New York

Pennsylvania Construction Co. (Wood Only), Marietta, Pa.

Balls (Basket)

Chicago Sporting Goods Mfg. Co. ("Ratsch-Peerless" Leather), Fulton & May, Chicago, Ill.

Balls (Brass)

American Ball Co., Providence, R. I.

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Draper Mfg. Co. (Solid or Hollow, for Valves, etc.), Port Huron, Mich.

Excelsior Steel Ball Co., Military rd., Buffalo, N. Y.

Grant-Moover Ball Co. (Also Bronze), Merchantville, N. J.

Jones, E. J. Co. (Also Bronze), Arlington Heights, Mass.

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Midland Brass Works, Fort Worth, Texas.

Standard Roller Bearing Co., 50th & Lancaster, Phila., Pa.

*Balls (Fall Line)

DOBBIE FOUNDRY & MACHINE CO. (Plain & With Hook), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Balls for Ball Mills

ALLIS-CHALMERS CO. (Forged Steel), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Power & Mining Machinery Co., Cudahy, Wis.

*Balls (Flag Pole)

JONES, THOMAS W., 22 Burling slip, New York. (See adv. index, end of book)

Balls (Fuller)

Canfield, H. O. Co., Bridgeport, Conn.

Jenkins Bros., 71 John, New York

PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index, end of book)

Balls (Glass)

Bache, Semon & Co., West & Hubert, New York

Balls (Golf)

Davidson Rubber Co., Boston, Mass.

Goodrich, B. F. Co. ("Haskell Whiz"), Akron, Ohio

Goodyear Tire & Rubber Co., Akron, O.

Kempshall Mfg. Co. (Rubber), Arlington, N. J.

Worthington Co., Elyria, O.

Balls (Hollow)

Draper Mfg. Co. (Brass, for Valves, etc.), Port Huron, Mich.

Johnston & Sharp Mfg. Co. (Crucible Steel, Self-Lubricating), Ottumwa, Ia.

Waterbury Brass Co. (Large), Waterbury, Conn.

Balls (Pipe & Flue)

Adams, S. Jarvis, Co., Etna & 14th, Pittsburgh, Pa.

Balls (Porcelain)

Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

Balls (Rubber)

Faultless Rubber Co., Ashland, O.

Balls (Steel)

American Ball Bearing Co., Cleveland, O.

American Ball Co., Providence, R. I.

Auburn Ball Bearing Co., Rochester, N. Y.

Brecher, E. A. & Co., 95 Reade, New York

Darling Pump & Mfg. Co., Williamsport, Pa.

Excelsior Steel Ball Co., Military rd., Buffalo, N. Y.

Grant-Hoover Ball Co. (Also Cast Iron), Merchantville, N. J.

Hess-Bright Mfg. Co., Phila., Pa.

Jones, E. J. Co., Arlington Heights, Mass.

Livermore, W. F. Co., Boston, Mass.

New Departure Mfg. Co., Bristol, Conn.

Pressed Steel Mfg. Co., Ridge av, Phila., Pa.

Standard Roller Bearing Co., 50th & Lancaster, Phila., Pa.

Transue & Williams Co. (From 2 inches up), Alliance, O.

Wyman & Gordon (Unfinished), Worcester, Mass.

***Balls (Steel, Billiard & Bowling)**

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Balls (Tennis)

Goodrich, B. F. Co. ("Goodrich"), Akron, O.

Balls (Wood)

American Enamel Co. (Plain & Enameled), Providence, R. I.

Estes, E. B. & Sons, New York

Hyde-Murphy Co., Ridgway, Pa.

Jones, E. J. & Co., Arlington Heights, Mass.

McMillan's, W. H. Sons (Ten Pin), 153 South, New York

Novelty Turning Co., Norway, Me.

Rowe, Henry Mfg. Co., Newaygo, Mich.

Bands (Boom)

Tiebout, W. & J., 118 Chambers, New York

Wilcox, Crittendon & Co. (Adjustable Goose Neck, etc.), Middletown, Conn.

Bands (Brake)

Columbia Steel Co., Elyria, O.

CROSBY CO., 171 Pratt, Buffalo, N. Y. (See adv. index, end of book)

Globe Machine & Stamping Co., Cleveland, O.

Neustadt Auto & Supply Co., 826 S 18th, St. Louis, Mo.

Royal Equipment Co. ("Raymond"), Bridgeport, Conn.

Smith, A. O. Co., Milwaukee, Wis.

Standard Welding Co., Cleveland, O.

Whipple, B. W., Binghamton, N. Y.

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Bands (Brass)

Waterbury Brass Goods Corporation (Fancy & Perforated), Waterbury, Conn.

Bands (Brush)

Lathrop, F. B. South Acton, Mass.

Bands (Hose)

Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.
Hudson Parer Co., Leominster, Mass.
Maitby Geo. B., American Trust bldg, Cleveland, O.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Standard Brass & Iron Works (For Brewers, etc.), Milwaukee, Wis.

Bands (Pipe & Tank)

Cambria Steel Co. (With Roiled Threads), Arcade bldg, Phila., Pa.
CENTRAL FOUNDRY CO. (For Cast Iron Pipe), 37 Wall, New York. (See adv. index & branch offices, end of book)
Colorado Fuel & Iron Co., Denver, Col.

Bands (Shingle, Box & Shook)

ACME STEEL GOODS CO., 2834-2840 Archer av., Chicago, Ill.; 147 Lafayette, New York, & Empire bldg, Atlanta, Ga. (See adv. index, end of book)
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
CARY MFG. CO., 19 Roosevelt, New York. (See adv. index, end of book)
De Haven Mfg. Co., 153 Furman, Brooklyn, N. Y.
Hollow Cable Mfg. Co. ("Preston's" Patent Braided Wire Box), Hornell, N. Y.
National Mfg. Co., N S, Pittsburg, Pa.
Paton, J. & Co. (Iron & Steel), Cleveland, O.

***Bank Safes (Patent Screw Door)**

HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av., Cincinnati, O. (See adv. index, end of book)

Bank Vaults

Barnes Safe & Lock Co., 325 3d av., Pittsburg, Pa.
Baum, J. Safe & Lock Co., Cincinnati, O.
Cary Safe Co., Chicago & Scott, Buffalo, N. Y.
Cornell, J. B. & J. M. Co. ("Burglar Proof"), 26th & 11th av., New York
Dlebold Safe & Lock Co. (Burglar & Fire-Proof), Canton, O., & 30 Reade, New York
Ely-Norris Safe Co., Perth Amboy, N. J.
HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av., Cincinnati, O. (See adv. index, end of book)
Herring-Hall-Marvin Safe Co., Hamilton, O., & 400 B'way, New York
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York, & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)
Manganese Steel Safe Co., Plainfield, N. J.
Meyer, L. A. Co., 448 E Water, Milwaukee, Wis.
Miller, L. H. Safe & Iron Works, Baltimore, Md.
Morris-Ireland Safe Co., 64 Sudbury, Boston, Mass.
Mosier Safe Co., Main Office & Works, Hamilton, O.
National Safe & Lock Co., Cleveland, O.
Remington & Sherman Co., 359 B'way, New York
Stewart Jail Works Co., Covington, Ky.
Thomas-Peter Co. (Sheet Steel), Canton, O.
Trumbull Safe & Vault Co., 117 Lake, Chicago, Ill.
VAN DORN IRON WORKS CO., 2685 N 79th, Cleveland, O. (See adv. index, end of book)
Victor Safe & Lock Co., 326 E 8th, Cincinnati, O.
Waltz Safe & Lock Co., 21 Spear, San Francisco, Cal.
Western Iron Works, 123 Beale, San Francisco, Cal.
York Safe & Lock Co., York, Pa.

Bank & Office Fixtures (Metallic)

Art Metal Construction Co., Jamestown, N. Y.
BERGER MFG. CO., THE, Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Canton Art Metal Co., Canton, O.
GENERAL FIREPROOFING CO. ("Allsteel"), Youngstown, O., & 103 E 33d, New York. (See adv. index & branch offices, end of book)
Jamestown Metal Furniture Co., Jamestown, N. Y., & 547 E 42d, New York

Krag Imperial Cabinet Co., 816 Fulton, Chicago, Ill.
Library Bureau, 530 Atlantic av., Boston, Mass.
MEYERS, FRED. J. MFG. CO., Ham-ilton, O. (See adv. index, end of book)
Office, Bank & Library Co., 157 Summer, Boston, Mass., & 102 Fulton, New York
Steel Fixture Mfg. Co., Topeka, Kan.
VAN DORN IRON WORKS CO., 2685 E 79th, Cleveland, O. (See adv. index, end of book)

Bank & Office Railings**CALIFORNIA.**

LOS ANGELES—Balley Ornamental Iron Co., Blescar, Henry 108 Ord
Frühling, Wm. A., 218 E 4th
Jones, Jas. Co., Le Roy & St. John
Niederer, J. Co., Main & Jefferson
OAKLAND—White Ornamental Iron Co.
SAN FRANCISCO—California Artistic Metal & Deterding, Chris. Wire Co., 351 7th
Garratt, W. T. & Co., 138 Fremont
Merle Ornamental Iron & Bronze Co.
Ralston Iron Works, 20th & Indiana
Sperry Iron & Wire Works, 168 Oak
WINSLOW BROS. COMPANY (Iron, Brass & Bronze), 972 Monadnock bldg. (See adv. index, end of book)
WRIGHT WIRE CO., 97 Fremont. (See adv. index, end of book)

COLORADO.

DENVER—Frazier-Peeps Fixture Co., 1401 Grauman, L. Fixture Co. Wazee
Jackson-Richter Iron Works Co.
Pioneer Iron & Wire Works Co., 1437 Market
White Bros. Mfg. Co.

CONNECTICUT.

BRIDGEPORT—Barnes, T. M., 232 Stratford Booth, R. G. & Co., 23 Crescent av.
HARTFORD—Howard, James L. & Co., 438 Asylum
MERIDEN—Bradley & Hubbard Mfg. Co.
NEW HAVEN—Burgess, Edw. A. (Est. of), 1 Artizan
Smith, Edw. F. & Co., 256 State
Smith, John P. & Co., 493 State
Yale Safe & Iron Co., 52 Richards, W. H.
PLAINVILLE—Elm City Brass & Rivet Co.

GEORGIA.

ATLANTA—Atlanta Wire & Iron Wks. Co., Empire bldg
Southern Wire & Iron Works

ILLINOIS.

AURORA—Love Bros. (Inc.)
CHICAGO—American Iron & Wire Works, 575 Carroll av.
Barbee Wire & Iron Works, 44 Dearborn
Central Architectural Iron Works, (Inc.), 4103 La Salle
CHICAGO ORNAMENTAL IRON Co., 37th & Stewart av. (See adv. index, end of book)
Columbia Wire & Iron Works, 83 Walnut
Gilbert & Bennett Mfg. Co., 153 Lake
HALSTED, JOS. CO., 388 W Randolph. (See adv. index, end of book)
HANKE IRON & WIRE WORKS. 1234 Fullmore. (See adv. index, end of book)
Heath-Johnson Co., 123 Ontario book)
JACKSON, WM. H. COMPANY, 163 Michigan av. (See adv. index, end of book)
Landon, E. R. Iron & Wire Works, 18 W May
SMITH, F. P. WIRE & IRON Works, 100 Lake. (See adv. index, end of book)
STANDARD CO., Railway Exch bldg. (See adv. index, end of book)
Voss, Fred'k., 617 Austin av., Chicago, Ill.
WINSLOW BROS. COMPANY (Iron, Brass & Bronze), 2515 W Harrison. (See adv. index, end of book)
EDWARDSVILLE—Edwardsville Brass Co.
QUINCY—Van Doorn Co.
ROCKFORD—Andrews Wire & Iron Works
SYCAMORE—Turner Brass Works

INDIANA.

EVANSVILLE—Mesker, Geo. L. & Co. (Wire & Iron)
INDIANAPOLIS—Central Wire & Iron Works
Geiger & Peters, 321-323 S Alabama
Inland Novelty Iron & Wire Works, 208 S Penn
Langsenkamp Wheeler Brass Works, 1208

McCaun, Ernst, 612 E Washington
Roch, Tobias, 225 E Pearl
LAFAYETTE—Barbee Wire & Iron Works
RICHMOND—Chandeller & Art Brass Works
TERRE HAUTE—Up-to-Date Mfg. Co.

IOWA.

DES MOINES—Centaur Wire & Iron Works
Central Iron Works, 118 Grand av
DUBUQUE—Trenk Wire Works, Iowa c 4th

KENTUCKY.

LOUISVILLE—Champion Iron & Wire Works, 1115 Underhill
Dow Wire & Iron Works
Imperial Wire, Iron & Roofing Co., 221 W Market
Kentucky Wire & Iron Co., 120 W Market
Snead Architectural Iron Works

LOUISIANA.

NEW ORLEANS—**WINSLOW BROS.** Company (Iron, Brass & Bronze), Hennen bldg. (See adv. index, end of book)

MAINE.

PORTLAND—Megquier & Jones Co.

MARYLAND.

BALTIMORE—Arundel Iron Works, 757 W Pratt
Balderston, H. & Son, 319 Pearl
Chesapeake Iron Works, Bush & B. & O.
Dietrich Bros., 344 North R. R.
Dufur, Baggott & Co., 235 W Saratoga
Dufur & Co., 311 N Howard
Meiser, H. & Son, 210 Clay
Stridman & Co., 16 N Frederick
WINSLOW BROS. COMPANY, Equitable bldg. (See adv. index, end of book)

MASSACHUSETTS.

BOSTON—Bay State Brass Foundry, 155 A, S B
Hub Wire Cloth & Wire Work Co., 13 Devonshire
Morss & Whyte Co., 75 Cornhill
Murdock, Shaw Corporation, 125 Federal
Nelson Bros., 62 Thayer
National Mfg. Co., 75 Equitable bldg
Scrannage Bros., 77 Travers
Whyte, Oliver & Co., 17 Cornhill
LOWELL—Rice & Co., 251 Mount Vernon
SPRINGFIELD—**BIGELOW, CHENEY** Wire Works. (See adv. index, end of book)
Emory, P. P. Mfg. Co. book)
WORCESTER—Dean, H. E. & Co., 180 Austin National Mfg. Co.
WRIGHT WIRE CO. (See adv. index, end of book)

MICHIGAN.

DETROIT—Acme Fancy Wire Works, Canfield av c Moran
Amos, Charles & Co., 9-13 Orchard
Art Brass & Wire Works, Forest av & Ellery
Barnum, E. T. Wire & Iron Works, 82 Washington
BOLLES, J. E. IRON & WIRE Works. (See adv. index, end of book)
De Croupet Iron Works, 127 Brush
Detroit Wire & Iron Works, 27 Jefferson
Ingilis, Wm. Wire & Iron Works, 59 Wood-bridge, E.
Phoenix Wire Works, Kirby & G. T. R. R.
VULCAN CO. (See adv. index, end of book)
SAGINAW—Koehler Bros. of book)

MINNESOTA.

MINNEAPOLIS—**FLOUR CITY ORNA-**mental Iron Works, 27th st. & 28th av. (See adv. index, end of book)
Klenzle-Merrick Mfg. Co., 1214 S 3d
Minneapolis Ornamental Iron Works, 401 12th av, S.
Twentieth Century Brass & Iron Works Co., 231 5th av, S.
ST. PAUL—Herzog Iron Works, 1044 E 7th
Perkins Mfg. Co., University av c Fairview
Twin City Iron & Wire Works, 106 E 5th

MISSOURI.

KANSAS CITY—Central Brass Works Co., Goodrich c Central
Kansas City Wire & Iron Works, 1428 Oak
Kleeman, Trotter & Co., 1327 Main
Poncik, Martin, 1816 Yecker
Tilk, Frank, 213 W 19th
ST. LOUIS—Lasar-Letzlg Mfg. Co., 1313 N 16th
St. Louis Wire & Iron Co., 520 Chouteau av

HALL PATENT

(APRIL 3, 1906)

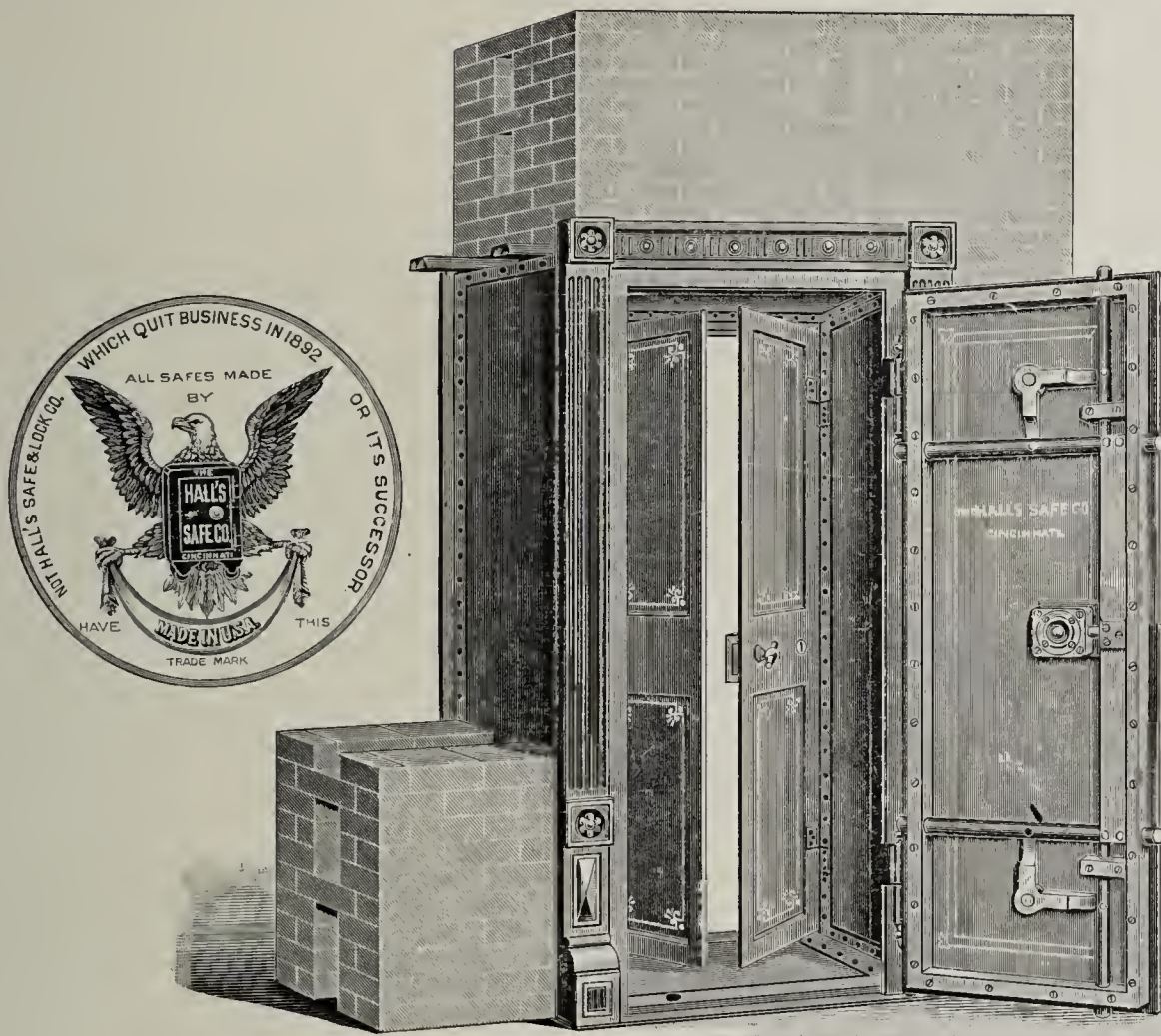
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SAFETY DEPOSIT BOXES, ETC.

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For Branch Offices Addresses, See Advertisers' Index, End of Book.

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IF YOU ARE IN DOUBT AS TO THE
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ANY MACHINE OR TOOL ON WHICH
THE PATENTS HAVE EXPIRED, THAT
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R E G I S T E R

NEBRASKA.

OMAHA—Champion Iron Works
Hlavka, Jno., 1216 Harney

NEW JERSEY.

CAMDEN—MERRITT & CO., Front &
Arch. (See adv. index, end of book)
NEWARK—Froehlich, A., 374 Market
Gould's, M. Son & Co. (Brass & Bronze), 61
Hamilton
Industrial Wire & Metal Works, 6 Bloom-
Storsberg, Fritz, 20 Atlantic field av

NEW YORK.

ALBANY—Campbell, Harry E. Co., 403 N
Pearl
Campbell, Harry E. Co., 403 N Pearl
Spalt, George, 904 B'way
BINGHAMTON—Titchener, E. H. & Co.
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—Buffalo Wire Works Co. (Also
Screens), 316 Terrace
Sanford, Thomas F., 84 B'way
Zero Valve & Brass Mfg. Co. (Brass Only),
417 Chicago
ELMIRA—Bantley, Constantine E., 5th c Madis-
son av
MOUNT VERNON—Henry-Bonnard Bronze Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Ajax Iron & Wire Co., 75 York
Durst, Wm., 4 Water
Grosback, Wm. & Co., 37 Maspeth av
Hecla Iron Works, 118 N 11th
McMurray, R. T. & Co., 365 Harman
Mills, W. J., 639 Kent av

Boroughs of Manhattan & Bronx.

NEW YORK—American Brass Fixture Works
(Brass & Bronze), 8 Howard
Bataille, Achille & Co., 587 Hudson
CABARET, PAUL E. & CO.
(Bronze), 342 W 14th. (See adv. index,
end of book)
Cable, Wm. Excelsior Wire Mfg. Co., 43
Fulton
Empire Brass & Metal Works, 290 B'way
ESTEY BROS. CO., Liberty &
Greenwich. (See adv. index, end of book)
ESTEY WIRE WORKS CO., 59
Fulton. (See adv. index, end of book)
Fiske, J. W. Iron Works, 56 Park pl
GORHAM CO. ARCH'L BRONZE,
5th av & 36th; Works: Providence, R. I.
(See adv. index, end of book)
Gould's, M. Son & Co. (Brass Bronze), 83
Reade
Hecla Iron Works. (See Borough of Brook-
lyn)
Henry-Bonnard Bronze Co., 103 Park av
Hopkins & Co., 198 W B'way
HOWARD & MORSE, 45 Fulton.
(See adv. facing first page of Index of
Contents)
JACKSON, WM. H. COMPANY
(Bank Counter Screens a Specialty), 29 E
17th (Union square. (See adv. index, end
of book)
Janusch Mfg. Co. (Brass & Bronze), 496 E
Lobel-Andrews Co., 531 W 55th 134th
Manhattan Brass Co., 334 E 28th
National Mfg. Co., 103 Chambers
New York Brass & Wire Works Co., 177
Grand
PITT, WM. R. COMPOSITE IRON
Works, 136 W 24th. (See adv. index, end
of book)
Sheppard & Stolp, 20 Fletcher of book)
Thompson, Hervey, 176 E 119th
Tiffany Studios, 347 Madison av
Toffler, S. Co. (Inc.) (Brass), 145th & S
boul
Tuttle & Bailey Mfg. Co. (Brass & Bronze),
83 Beekman
TYLER, W. S. CO., Cleveland, O.
(See adv. index & branch offices, end of
book)
Union Equipment & Bronze Co., 1901 Park
av, c 129th, New York
Wells Architectural Iron Co., 219-221 E
144th
Westervelt, A. B. & W. T., 102 Chambers
Williams, George A. & Sons, 85 Fulton
Williams, John, 556 W 27th
WINSLOW BROS. COMPANY (Iron,
Brass & Bronze), 103 Park av. (See adv.
index & branch offices, end of book)

Borough of Queens.

ASTORIA—Federal Brass & Bronze Co.
MASPETH—Richey, Browne & Deandl (Inc.)
(End of New York City)
ROCHESTER—Kohlmetz, Chas. E. & H. L.
Snow Wire Works Co.
White Wire Works Co., 47 Exchange
SYRACUSE — Smith & Caffrey Co. (Props)
(Phoenix-Porter Foundry)
Syracuse Wire Works
TROY—Mahony Mfg. Co.

OHIO.

AKRON—Burger Iron Co.
Ornamental Iron Works Co.
CANTON—COLUMBIA IRON & WIRE
Works Co. (See adv. index, end of book)
CINCINNATI—CINCINNATI MFG. CO.,
1243 W 6th. (See adv. index, end of book)
KAMMAN, WALTER, Spring
Grove av & Monmouth. (See adv. in-
dex, end of book)
Kinsley, John R., 115 E 6th
SCHREIBER, L. SONS & CO., 8th &
Eggleston av. (See adv. index, end of book)
Schroder, J. B. & Co., 132 E 5th
CLEVELAND—FOREST CITY STEEL &
Iron Co., 10 Ramsey. (See adv. index, end
of book)
TYLER, W. S. CO. (See adv. in-
dex, end of book)
VAN DORN IRON WORKS CO.,
2685 E 79th. (See adv. index, end of book)
COLUMBUS—COLUMBUS WIRE & IRON
Works Co. (See adv. index, end of
book)
Kanode, Henry D.
DAYTON—City Forge & Iron Works (Andrew
Plocher, Prop.)
HAMILTON—MEYERS, FRED. J. MFG.
Co. (See adv. index, end of book)
SPRINGFIELD—Bayley, Wm. Co.
TOLEDO—Donovan Wire & Iron Co.
Toledo Wire & Iron Works

OREGON.

PORTLAND—Portland Wire & Iron Works
Tuerek, I. K., Davis c 9th

PENNSYLVANIA.

PHILADELPHIA—Belmont Iron Works, 22d &
Wash av
Blggln, Chas. P. Co., 1829 Harlan
DARBY, EDW. & SONS CO., 239
Arch. (See adv. index, end of book)
Gensel, Frederick & Co., 911 Vine
Halstead & Co., 1129 Cherry
Midland Metal Co. (Inc.), 21st & Jefferson
Nacke, A. & Son, 236 S 9th
Pettit, Frank, 809 Master
REMPPIS, WM. F. CO., 1506 San-
som. (See adv. index, end of book)
PITTSBURG—Cornwall, E. & Co., 709 Sarah
McKenna Bros. Brass Co. (Brass), 1st av
& Ross
PHOENIX STEEL CO. (Inc.), Put-
nam & P. R. R. (See adv. index, end
of book)
Pittsburg Brass Mfg. Co., Penn av & 32d
SOMMERVILLE IRON & BRONZE
Co., 5637-5649 Butler. (See adv. index,
end of book)
TAYLOR & DEAN, Penn av & 25th.
(See adv. index, end of book)
TYLER, W. S. CO., Bessemer bldg.
(See adv. index, end of book)
WINSLOW BROS. COMPANY (Iron,
Brass & Bronze), Peoples National Bank
bldg. (See adv. index, end of book)
READING—REMPPIS, WM. F. CO. (See
adv. index, end of book)

RHODE ISLAND.

PROVIDENCE—What Cheer Wire Works, 157
Dorrance

TENNESSEE.

CHATTANOOGA—Chattanooga Iron & Wire
Works

VIRGINIA.

PORTSMOUTH—Ornamental Iron & Wire Co.
RICHMOND—Richmond Mfg. Co. (Inc.)

WASHINGTON.

SEATTLE—Camp-Te Roller Agency (Mrs.'
Agts.), Colman bldg.
Pacific Ornamental Iron Works, 922 1st
av, S.

WEST VIRGINIA.

WHEELING—Architectural Iron & Wire W'ks
Harris, P. S.

WISCONSIN.

MILWAUKEE — Colnik, C. Mfg. Co., 734
Greenbush
Globe Wire & Iron Works, Atkinson av,
bet. 10th & 11th
Loeffelholz Co., 170 Clinton
Wagner, A. F., 514 Market
WISCONSIN IRON & WIRE W'KS,
190 E Water. (See adv. index, end of
book)

*Bank & Safety Deposit Vaults

HALL'S SAFE CO., Main Office &
Factory, 3253 Spring Grove av, Cincinnati,
O. (See adv. index, end of book)

*Banks (Toy)

WORCESTER PRESSED STEEL CO.
(Pressed Steel), Worcester, Mass. (See adv.
index, end of book)

*Bar Folders

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Barge Builders

American Bridge Co. (Steel) (At Ambridge, Pa.,
Plant), Pittsburg, Pa., & 30 Church, New
York
American Car & Foundry Co. (Steel & Wood-
en), 915 Olive, St. Louis, Mo., & 165 B'way,
New York
AMERICAN CONCRETE CO. (Con-
crete), 80 William, New York. (See adv.
index, end of book)
Carroll-Porter Boiler & Tank Co. (Steel), Wells-
ville, O.
Cramp, Wm. & Sons, Ship & Engine Building
Co. (Steel), Beach & Ball, Philadelphia, Pa.
Harlan & Hollingsworth Corporation (Steel),
Wilmington, Del.
Newport News Ship Building & Dry Dock Co.
(Steel), Newport News, Va.
Union Iron Works Co. (Steel), San Francisco,
Cal.

Bar Iron or Steel

(See Iron Bar Mills; also Steel Bar Mills)

Barium (Carbonate, Precipitated)

Harshaw, Fuller & Goodwin Co., Cleveland, O.

Barometers

Ainsworth, Wm. & Sons, Denver, Col.
Bliss, John & Co., 128 Front, New York
Du Vivier, Ernest H. (Dial & Recording), 30
Church, New York
Green, Henry J., 1911 Bedford av
Greiner, Emil Co., 45 Cliff, New York
Hand, John & Sons ("U. S. Navy"), 222 Wal-
nut, Phila., Pa.
Keuffel & Esser Co., 127 Fulton, New York
Large, Chas. E., 35 Woodbine, Brooklyn, N. Y.
QUEEN & CO. (Inc.), n. w. c 8th &
Arch, Philadelphia, Pa. (See adv. index,
end of book)
Ritchie, E. S. & Sons, Brookline, Mass.
Tagliabue, Chas. J. Mfg. Co., 53 Fulton, New
York
Tagliabue, G. (Est. of), 302 Pearl, New York
Taylor Bros. Co., 29 Elizabeth, Rochester, N.Y.
Taylor Instrument Co., Rochester, N. Y.
Wagner Bros. & Co. (Importers), 26 Washing-
ton pl, New York
Watertown Thermometer Co., Watertown, N.Y.

*Barometers (Aneroid)

QUEEN & CO. (Inc.), n. w. c 8th &
Arch, Philadelphia, Pa. (See adv. index,
end of book)

Barrel Machinery

(See Machinery, Barrel, Keg, Stave & Heading)

Barrel Packers

(See Packing Machines; also Bag Filling Ma-
chines)

Barrels (Chlorinating)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Mine & Smelter Supply Co., Denver, Colo.
 Power & Mining Machinery Co., Cudahy, Wis.
 Union Iron Works Co., San Francisco, Cal.

Barrels (Clean Up or Amalgam)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Mine & Smelter Supply Co., Denver, Colo.
 Power & Mining Machinery Co., Cudahy, Wis.
 Union Iron Works Co., San Francisco, Cal.

Barrels (Cyanide)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
 Power & Mining Machinery Co., Cudahy, Wis.
 Union Iron Works Co., San Francisco, Cal.

Barrels (Japanning)

Baird Machine Co. (Also Fanning Mills), Oakville, Conn.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Barrels (Oil)

Gulf Cooperage Co., Pittsburg, Pa.

*Barrels (Seamless Pressed Steel)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

Barrels (Second-Hand)

BALTIMORE COOPERAGE CO., c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
 Maguire Bros (Lime & Cement), 527 W 55th, New York
 New York Cooperage, 235 E'way, New York

Barrels (Sheet Steel)

Acorn Brass Mfg. Co., 203 Fulton, Chicago, Ill.
 American Steel Package Co., Defiance, O.
 Barnes Mfg. Co. (Seamless), Mansfield, O.
 Clark, W. J. Co., Salem, O.
 Cleveland Wire Spring Co., E 38th & Hamilton, Cleveland, O.
 Cowles & Danziger Co., Detroit, Mich.
 Iron Clad Mfg. Co., 204 Varet, B'klyn, N. Y.
 Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg Pa.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
LYON METALLIC MFG. CO., Aurora, Ill. (See adv. index, end of book)
 Ohio Galvanizing & Mfg. Co. (Steel Shop), Niles, O.
 Ohio Mfg. Co. (Also Steel Foundry Barrels), Painesville, O.
PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Terrell's Equipment Co., Grand Rapids, Mich.
 Welded Steel Barrel Corporation (Welded Steel), Detroit, Mich.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Barrels (Steam Drying)

Baird Machine Co. (Also Fanning Mills), Oakville, Conn.

Barrels (Steel)

(See Barrels, Sheet Steel)

Barrels (Steel Shipping)

Iron Clad Mfg. Co., 204 Varet, B'klyn, N. Y.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Barrels (Tumbling or Rumbling)

(See also Mills, Tumbling)

Baird Machine Co. ("Baird" Oblique Tilting, Dry, Wet & Steam Drying, etc.), Oakville, Conn.
BALTIMORE COOPERAGE CO., c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
 Barnett, Oscar Foundry Co. ("Barnett's" Hexagon), Newark, N. J.
 Bowler Foundry Co., 14 Winter, Cleveland, O.
 Brass Founders Supply Co. (Tilting, Oblique Tumblers for Brass Fd'rs., also Dry & Wet Tumblers, Newark, N. J.
 Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
 Caldwell, H. W. & Son Co. ("Walker"), 17th & Western av, Chicago, Ill.
 Calumet Engineering Works ("Calumet"), Harvey, Ill.
CENTRAL IRON WORKS ("Quincy"), Quincy, Ill. (See adv. index, end of book)
 Clark Novelty Co. (Tilting Tumbling), Rochester, N. Y.
 Cleveland Tumbling Barrel & Mfg. Co., Cleveland, O.
 Dodge Mfg. Co., Mishawaka, Ind.
 Falls Rivet & Machine Co. (Foundry), Cuyahoga Falls, O.
 Globe Machine & Stamping Co. ("Globe" Tilting; also Horizontal), 3868 Hamilton av, Cleveland, O.
 Henderson Bros., Waterbury, Conn.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Locke Regulator Co., Salem, Mass.
 McCormack, J. S. Co., 25th & A. V. Ry., Pittsburg, Pa.
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. index, end of book)
 Paxson, J. W. Co., 1021 N Delaware av, Phila., Pa.
 Phillips & McLaren, 24th & Smallman, Pittsburg, Pa.
 Royersford Foundry & Machine Co., Royersford, Pa.
 Stover Mfg. Co., Freeport, Ill.
 Sly, W. W. Mfg. Co., Cleveland, O.
 Standard Machinery Co., Providence, R. I.
 Tilghman-Brooksbank Sand Blast Co. ("Tilghman" & "Matthewson"), 1126 S 11th, Philadelphia, Pa.
 Turner, Vaughn & Taylor Co. (Chain & Nail), Cuyahoga Falls, O.
 Waterbury Machine Co. (Tilting for Brass, etc.), Waterbury, Conn.
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Barrels (Wire Thrashing)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Barrels (Working)

National Tube Co. ("Shelby" Seamless Steel Tubing), Pittsburg, Pa.

Barrows (Baggage & Express)

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.
 Buffalo Scale Co., Buffalo, N. Y.
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Wabash & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
 Howe Scale Co., Rutland, Vt.; 341 B'way, New York & 145 Franklin, Boston, Mass.
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Sidney Steel Scraper Co. (Wooden Frame), Sidney, O.
 Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

Barrows (Brick)

Akron Cultivator Co. (Steel Tray), Akron, O.
 American Clay Machinery Co., Bucyrus, O.
 Anderson Foundry & Machine Works, Anderson, Ind.
 Arnold, Creager Co., New London, O.
 Bryan Mfg. Co. (Steel Frame), Bryan, O.
 Davis-Price Fdy & Machine Co., New Cumberland, W. Va.

Dederick's, P. K. Sons, Albany, N. Y.
 Fairbanks Co., 186 Lafayette, New York
 Freese, E. M. & Co., Gallon, O.
 Horton Mfg. Co., Painesville, O.
 Jackson Mfg. Co., Harrisburg, Pa.
 Kells Foundry & Machine Co., Adrian, Mich.
 Kilbourne & Jacobs Mfg. Co. (Steel & Wooden), Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 McWhinnie, Thos., Poughkeepsie, N. Y.
MARSH COMPANY ("Haslup" Steel Tray), Old Colony bldg, Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
 Martin, H. Brick Machine Co., Lancaster, Pa.
 Means Foundry & Machine Co., Steubenville, O.
 Michigan Brick & Tile Machine Co., Morenci, Mich.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
 Potts, C. & A. Co., Indianapolis, Ind.
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Raymond, C. W. Co., Dayton, O.
 Scott's Patent Brick Car Co., Knoxville, Tenn.
 Sidney Steel Scraper Co. (Wood Frame, Iron Wheel), Sidney, O.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thomas, Geo. W. & Co., Toledo, O.
 Toledo Wheelbarrow Co. ("Bull Frog"), Toledo, O.
 Wellington Machine Co., Wellington, O.
 Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

Barrows (Charging)

(See Barrows, Furnace Charging)

Barrows (Coal)

(See Barrows, Steel)

Barrows (Coal or Coke Charging)

(See Barrows, Furnace Charging)

Barrows (Coke)

Akron Cultivator Co. (Steel), Akron, O.
 Archer Iron Works Co. (Steel), 739 1st Nat'l Bank bldg, Chicago, Ill.
ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E. Cleveland, O. (See adv. index, end of book)
 Bryan Mfg. Co., Bryan, O.
 Connellsville Machine & Car Co., Connellsville, Pa.
 Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO. (Steel), Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
 Focht's, Geo. Sons, Hoboken, N. J.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Jackson Mfg. Co., Harrisburg, Pa.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 McWhinnie, Thos., Poughkeepsie, N. Y.
MARSH COMPANY ("Haslup" Solid Pressed Steel Tray), Old Colony bldg, Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
 Niles Mine & Mill Supply Co., Cleveland, O. & Niles, O.
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Sidney Steel Scraper Co., Sidney, O.
 Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.
 Sterling Wheelbarrow Co., Milwaukee, Wis.
 Stuebner, G. L. Iron Works (Steel), 12th & Vernon av, Long Island City, N. Y.

Barrows (Concrete Charging)

Akron Cultivator Co., Akron, O.
AMERICAN CONCRETE CO. (Mrs.) Agts, 80 William, New York. (See adv. index, end of book)
 Archer Iron Works Co. (Steel & Wood Frame), 739 1st Nat'l Bank bldg, Chicago, Ill.
KOEHRING MACHINE CO., Milwaukee, Wis. (See adv. index, end of book)
MARSH COMPANY ("Haslup" Solid Pressed Steel Tray), Old Colony bldg, Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
 Puffer-Hubbard Mfg. Co. (Steel Tray, Steel Wheels, Wood Handles), Minneapolis, Minn.
RANSOME CONCRETE MACHINERY Co. (Steel), Dunellen, N. J. (See adv. index & branch offices, end of book)
 Sterling Wheelbarrow Co. ("Bakers," "Ajax," "Eureka," Roller Bearing Wheels), Milwaukee, Wis.
 Toledo Wheelbarrow Co. ("Bull Frog" Steel Tray), Toledo, O.
 Wallace-Lindesmith Hoist Co., Los Angeles, Cal.

Barrows (Contractors')

(See Wheelbarrows)

Barrows (Folding, Steel Frame)

Bryan Mfg. Co., Bryan, O.

Barrows (Foundry)

Akron Cultivator Co., Akron, O.

Archer Iron Works Co., 739 1st Nat'l Bank bldg, Chicago, Ill.

Bryan Mfg. Co., Bryan, O.

Fairbanks Co., 168 Lafayette, New York

FAIRBANKS, MORSE & CO. (Steel).
Wabash av & Eldredge pl., Chicago, Ill.

(See adv. index & branch offices, end of book)

Focht's, Geo. Sons, Hoboken, N. J.

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

Jackson Mfg. Co., Harrisburg, Pa.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Lansing Wheelbarrow Co., Lansing, Mich.

McWhinnie, Thos., Poughkeepsie, N. Y.

Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.

Pollock, Alex. Co., 203 West, New York

Sidney Steel Scraper Co., Sidney, O.

SMITH, J. D. FOUNDRY SUPPLY

Co., 1846 Scranton rd, N W, Cleveland, O.

(See adv. index, end of book)

Standard Scale & Supply Co., 243 Water,

Pittsburg, Pa.

Sterling Wheelbarrow Co. ("Sterling" All-Steel

Tubular Frame), Milwaukee, Wis.

Stuebner, G. L. Iron Works (Steel), 12th &

Vernon av, Long Island City, N. Y.

Syracuse Chilled Plow Co. (Steel Tray, Tubu-

lar), Syracuse, N. Y.

Union Iron Works, Hoboken, N. J.

Barrows (Furnace Charging)

Akron Cultivator Co. (Automatic Dump), Ak-

ron, O.

Archer Iron Works Co., 739 1st Nat'l Bank

bldg, Chicago, Ill.

Bryan Mfg. Co., Byran, O.

Consolidated Iron Works, Hoboken, N. J.

Conveying Machinery Co., 120 Liberty, New

York

Fairbanks Co., 186 Lafayette, New York

Focht's, Geo. Sons, Hoboken, N. J.

FAIRBANKS, MORSE & CO., Wabash

& Eldredge pl., Chicago, Ill. (See adv. in-

dex & branch offices, end of book)

Jackson Mfg. Co., Harrisburg, Pa.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Lansing Wheelbarrow Co., Lansing, Mich.

Ohio Ceramic Engineering Co., Cleveland, O.

Petty, J. K. & Co. (Lebanon Boiler Works)

(With Failers Axles), Stephen Girard bldg.

Philadelphia, Pa.; Works: Lebanon, Pa.

Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.

Power & Mining Machinery Co., Cudahy, Wis.

Schalkenbach & Budke, Jersey City, N. J.

Sidney Steel Scraper Co., Sidney, O.

Syracuse Chilled Plow Co., Syracuse, N. Y.

Union Boiler & Mfg. Co., Lebanon, Pa.

Welmer Machine Works Co., Lebanon, Pa.

Barrows (Garden)

Bryan Mfg. Co., Bryan, O.

Keystone Farm Machine Co., York, Pa.

Kilbourne & Jacobs Mfg. Co. ("20th Century,"

etc.), Columbus, O.

McWhinnie, Thos., Poughkeepsie, N. Y.

Puffer-Hubbard Mfg. Co., Minneapolis, Minn.

Sidney Steel Scraper Co., Sidney, O.

Sterling Wheelbarrow Co., Milwaukee, Wis.

Syracuse Chilled Plow Co., Syracuse, N. Y.

Toledo Metal Wheel Co., Toledo, O.

Toledo Wheelbarrow Co. ("Toledo Clipper,"

etc.), Toledo, O.

Zering, H. Mfg. Co., Cincinnati, O.

Barrows (Gas Works)

(See Barrows, Coke)

Barrows (Locomotive Coal Station)

Akron Cultivator Co., Akron, O.

Archer Iron Works Co., 739 1st Nat'l Bank

bldg, Chicago, Ill.

Kilbourne & Jacobs Mfg. Co. (Steel), Colum-

bus, O.

Barrows (Mortar)

Akron Cultivator Co., Akron, O.

Anderson, W. H. Tool & Supply Co., 14 Ma-

comb, Detroit, Mich.

Archer Iron Works Co. (Steel), 739 1st Nat'l

Bank bldg, Chicago, Ill.

Bryan Mfg. Co., Bryan, O.

Kilbourne & Jacobs Mfg. Co. (Bolted), Colum-

bus, O.

MARSH COMPANY ("Haslup" Solid

Pressed Steel Tray). Old Colony bldg, Chi-

cago, Ill., & 50 Church, New York. (See

adv. index, end of book)

Puffer-Hubbard Mfg. Co., (Coal, Ore & Coke),

Minneapolis, Minn.

Sidney Steel Scraper Co. (Tubular Steel), Sid-

ney, O.

Sterling Wheelbarrow Co. (Steel, etc.), Mil-

waukee, Wis.

Syracuse Chilled Plow Co. (Steel Tray, Wood

Frame), Syracuse, N. Y.

Toledo Wheelbarrow Co. ("Bull Frog" Steel

Tray), Toledo, O.

Barrows (Ore)

Akron Cultivator Co., Akron, O.

Archer Iron Works Co., 739 1st Nat'l Bank

bldg, Chicago, Ill.

HILL & GRIFFITH CO., Cincinnati,

O (See adv. index, end of book)

ATLAS CAR & MFG. CO., THE, 1289

Marquette Rd., N. E., Cleveland, O. (See

adv. index, end of book)

Focht's, Geo. Sons, Hoboken, N. J.

Kilbourne & Jacobs Mfg. Co. (Bolted), Colum-

bus, O.

Ohio Ceramic Engineering Co. (Steel), Cleve-

land, O.

Puffer-Hubbard Mfg. Co., Minneapolis, Minn.

Syracuse Chilled Plow Co. (Steel Tray Tubular),

Syracuse, N. Y.

Barrows (Packing House)

Ohio Ceramic Engineering Co., Cleveland, O.

Hendricks' Commercial Register

IS USED FOR

Purchasing Purposes

BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED

Barrows (Pig Iron)

Akron Cultivator Co., Akron, O.
 Kilbourne & Jacobs Mfg. Co. (Tubular Steel),
 Columbus, O.
 Sidney Steel Scraper Co., Sidney, O.
 Sterling Wheelbarrow Co., 82 Warren, New
 York
 Syracuse Chilled Plow Co. (Steel Tray Tubular),
 Syracuse, N. Y.

Barrows (Steel)

Akron Cultivator Co., Akron, O.
 Archer Iron Works Co., 739 1st Nat'l Bank
 bldg, Chicago, Ill.
 Bryan Mfg. Co., Bryan, O.
 Connellsville Machine & Car Co., Connells-
 ville, Pa.
 Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Wabash
 av & Eldredge pl., Chicago, Ill. (See adv.
 index & branch offices, end of book)
 Focht's, Geo. Sons, Hoboken, N. J.
HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)
 Jackson Mfg. Co., Harrisburg, Pa.
 Kilbourne & Jacobs Mfg. Co. (& Steel Tray),
 Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
McCOY, HENRY J. CO., 65 & 67 Dey,
 New York. (See adv. index, end of book)
 McWhinnie, Thomas (Steel Tray & Wheel),
 Poughkeepsie, N. Y.
MARSH COMPANY ("Haslup" Solid
 Pressed Steel Tray), Old Colony bldg, Chi-
 cago, Ill., & 50 Church, New York. (See
 adv. index, end of book)
 Ohio Ceramic Engineering Co. (Package, etc.),
 Cleveland, O.
 Optenberg Iron Works Co., Sheboygan, Wis.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
 Pollock, Alex. Co., 203 West, New York
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Sidney Steel Scraper Co. (Solid Pressed Steel,
 Tray & Steel Tubular), Sidney, O.
 Sterling Wheelbarrow Co. (All Steel, Roller
 Bearing Wheels), Milwaukee, Wis.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thomas, Geo. W. & Co., Toledo, O.
 Toledo Steel Wheelbarrow Co., Toledo, O.
 Union Iron Works, Hoboken, N. J.
 Western Iron Works, 123 Beale, San Francisco,
 Cal.
 White, Robert Engineering Works (Dumping),
 ft Columbia, Brooklyn, N. Y.

Barrows (Steel Tubular)

Akron Cultivator Co., Akron, O.
 American Steel Scraper Co., Sidney, O.
 Archer Iron Works Co., 739 1st Nat'l Bank
 bldg, Chicago, Ill.
 Bryan Mfg. Co., Bryan, O.
 Consolidated Iron Works, Hoboken, N. J.
 Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Wabash
 av & Eldredge pl., Chicago, Ill. (See adv.
 index & branch offices, end of book)
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
McCOY, HENRY J. CO., 65 & 67 Dey,
 New York. (See adv. index, end of book)
 McWhinnie Wheelbarrow Works, Poughkeepsie,
 N. Y.
 Pollock, Alex. Co., 203 West, New York
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Sidney Steel Scraper Co., Sidney, O.
 Sterling Wheelbarrow Co. (Roller Bearing
 Wheels), Milwaukee, Wis.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Toledo Wheelbarrow Co. ("Bull Frog"), To-
 ledo, O.
 Zering, H. Mfg. Co., Cincinnati, O.

Barrows (Stone)

Akron Cultivator Co., Akron, O.
 Archer Iron Works Co. (Steel), 739 1st Nat'l
 Bank bldg, Chicago, Ill.
 Bryan Mfg. Co., Bryan, O.
 Kilbourne & Jacobs Mfg. Co. (Wood Wheels,
 also Steel Bottom), Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 McWhinnie, Thos., Poughkeepsie, N. Y.
 Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
 Sidney Steel Scraper Co. (Steel Bottom), Sid-
 ney, O.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thomas, Geo. W. & Co., Toledo, O.
 Toledo Wheelbarrow Co., Toledo, O.

Barrows (Track)

American Track Barrow (& Cars "Pony" &
 "Dandy"), Lowell, Mass.
 Railroad Supply Co., Old Colony bldg, Chicago,
 Ill.
 Western Electric & Supply Co., St. Louis, Mo.

Barrows (Wood)

(See Wheelbarrows)

Bars (Aluminum)

(See Alloys, Aluminum)

Bars (Angle)

Colorado Fuel & Iron Co., Denver, Colo.
DONOVAN WIRE & IRON CO., Tole-
 do, O. (See adv. index, end of book)
 Illinois Steel Co., 115 Adams, Chicago, Ill.
 Jones & Laughlin Steel Co. (Cold & Hot Rolled),
 Pittsburgh, Pa.
 Lackawanna Steel Co., Buffalo, N. Y., & 2
 Rector, New York
 Logan Iron & Steel Co., Philadelphia, Pa.
 P. C. Works, Perth Amboy, N. J.
 Republic Iron & Steel Co., Pittsburgh, Pa.
SCAIFE, WM. B. & SONS CO., 211 1st
 av, Pittsburgh, Pa. (See adv. index, end of
 book)

Bars (Arch)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Carnegie Steel Co., Carnegie bldg, Pittsburg,
 Pa.
 Pittsburg Forge & Iron Co., 1003 Penna. av,
 Pittsburg, Pa.

Bars (Boring)

(See also Cylinder Boring Machines)

Bullard Machine Tool Co. (Boring & Reaming),
 Bridgeport, Conn.
E L M E S, CHAS. F. ENGINEERING
 Works, c Fulton & Sangamon, Chicago, Ill.
 (See adv. index, end of book)
 Hill Standard Mfg. Co., Anderson, Ind.
 Krieger Tool & Mfg. Co. ("Krieger" Hollow
 Combination), 479 N Park, Chicago, Ill.
 Seamless Tube Co. of America (Hollow Seam-
 less Drawn Steel), Pittsburg, Pa.

Bars (Carpenters' Prying)

Johnson, W. (Hedenberg Works), Newark, N. J.

Bars (Claw)

Anderson, W. H. Tool & Supply Co., 14 Ma-
 comb, Detroit, Mich.
 Atha Tool Co., ft of Chapel, Newark, N. J.
 Beall Bros. (Inc.) (With Heel & Goose Neck,
 etc.), Alton, Ill.
 Evansville Tool Works (Railroad, etc.), Evans-
 ville, Ind.
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works (Ltd.), 23d & Smallman,
 Pittsburg, Pa.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Kalamazoo Rwy. Supply Co., Kalamazoo, Mich.
 Klein-Logan Co., S 13th & Breed, Pittsburg,
 Pa.
 Oliver Iron & Steel Co., S 10th & Muriel, Pitts-
 burg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Ches-
 wick"). Works: Cheswick, Pa.
 Plumb, Fayette R., Frankford, Phila., Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."),
 Brackenridge, Pa.
 Union Drop Forge Co., Chicago, Ill.
 Verona Tool Works, Verona, Pa., & Murtland
 bldg, Pittsburg, Pa.
 Warwood Tool Co., Wheeling, W. Va.

Bars (Commutator)

(See also Commutators)

Billings & Spencer Co., Hartford, Conn.
 Cameron, H. P. Elec. Mfg. Co., Ansonia, Conn.
 Coe Brass Mfg. Co., Torrington, Conn.
 Columbia Machine Works & Malleable Iron Co.,
 269 Chestnut, Brooklyn, N. Y.
 Commutator Co., 121 N 1st av, N Minneapolis,
 Minn.
 Eureka Tempered Copper Works, North East,
 Pa.
 Forest City Electric Co., Cleveland, O.
 Jefferson Brass Foundry, 209 King, Brooklyn,
 N. Y.
 Keystone Drop Forge Works (Segments Drop
 Forged to Order), Chester, Pa.

Mansfield Tempered Copper Co., Mansfield, O.
 Marshall, R. W. & Co., 50 Church, New York
 Miamisburg Electric Co., Miamisburg, O.
PAGE-STORMS DROP FORGE CO.
 (Segments Drop Forged from Pure Unalloyed
 Copper), Chicopee, Mass. (See adv. index,
 end of book)

Rome Metal Works, Rome, N. Y.
VAN DORN ELECTRIC & MFG. CO.,
 2694 E 79th, Cleveland, O. (See adv. In-
 dex, end of book)
WESTINGHOUSE ELECTRIC & MFG.
 Co., Union Bank bldg, Pittsburg, Pa. (See
 adv. index & branch offices, end of book)

Bars (Cylinder Boring)

(See Cylinder Boring Machines)

Bars (Digging)

Buckeye Mfg. Co., Canton, O.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Roberts, Geo., Pittsburg, Pa.
 Stortz, John & Son, 210 Vine, Phila., Pa.

Bars (Draw)

Anderson, W. H. Tool & Supply Co., 14 Ma-
 comb, Detroit, Mich.
 Peacock's Iron Works, Selma, Ala.
 Pittsburg Forge & Iron Co., Pittsburg, Pa.
 Pratt & Letchworth Co., 189 Tonawanda, Buf-
 falo, N. Y.

Bars (Extension)

Grabler Mfg. Co., Cleveland, O.

Bars (Eye)

American Bridge Co., Penna bldg, Philadel-
 phia, Pa., & 42 B'way New York
 Cambria Steel Co., Arcade bldg, Phila., Pa.;
 Mills, Johnstown, Pa.
 Carnegie Steel Co., Pittsburg, Pa.
 Passaic Steel Co., Paterson, N. J.
 Penna. Steel Co., Girard bldg, Phila., Pa.;
 Mills: Steelton, Pa.
 Phoenix Iron Co. (Upset), 410 Walnut, Phila.,
 Pa.; Mills: Phoenixville, Pa.

Bars (Finger)

Cambria Steel Co. (Cold Rolled & Cold Drawn
 Steel), Arcade bldg, Phila., Pa.
 Jones & Laughlin Steel Co. (Cold Rolled Mower
 & Reaper), Pittsburg, Pa.

Bars (Hop & Post)

Munnsville Plow Co., Munnsville, N. Y.

Bars (Interlocking Channel)

(See Piling, Interlocking Steel)

***Bars (Iron & Steel, Concrete Reinforcing)**

AMERICAN CONCRETE CO., 50 Wil-
 liam, New York. (See adv. index, end of
 book)
TRUSSED CONCRETE STEEL CO.,
 Trussed Concrete bldg, Detroit, Mich. (See
 adv. index & branch offices, end of book)

Bars (Lining & Tamping)

Anderson, W. H. Tool & Supply Co., 14 Ma-
 comb, Detroit, Mich.
 Atha Tool Co. ft Chapel, Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
 Buckeye Mfg. Co., Canton, O.
 Columbus Handle & Tool Co., Columbus, Ind.
 Dicke Tool Co., Downers Grove, Ill.
 Evansville Tool Works, Evansville, Ind.
 Handlan-Buck Mfg. Co. ("Jackson," "Hoxie"),
 212 N 3d, St. Louis, Mo.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works (Ltd.), 32d & Smallman,
 Pittsburg, Pa.
 Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.
 Meckel, Fred. L., 83 E 13th, Chicago, Ill.
 New Castle Forge & Bolt Co., New Castle,
 Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Oshkosh Logging Tool Co., Oshkosh, Wis.

Pittsburg Shovel Co., Frick bldg, Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"); Works, Cheswick, Pa.
Plumb, Fayette, Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Stortz, John & Son, 210 Vine, Phila., Pa.
Union Drop Forge Co., 68 E Ohio, Chicago, Ill.
Verona Tool Works, Verona, Pa., & Murtland bldg, Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.

Bars (Low Phosphorus Melting)

Samuel, Frank (Firm of) ("Howe" & "Samuels"), 1502 Market, Philadelphia, Pa.

Bars (Metal Transom)

See Metallic Sash Bars)

Bars (Mine Spike)

Pittsburg Tool & Drop Forge Co. ("Cheswick"); Works, Cheswick, Pa.

Bars (Pinch)

(See Car Movers or Pushers)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Beall Bros. (Inc.), Alton, Ill.
Braunsdorf-Mueller Co. (Bricklayers'), Elizabeth, N. J.
Collins Co., Collinsville, Conn.
Crescent Novelty Mfg. Co., 703 S. B'way, St. Louis, Mo.
Falls Mfg. Co., 12 Drumm, San Francisco, Cal.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick Miners"); Works, Cheswick, Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Sweet's Steel Co., Williamsport, Pa.
Verona Tool Works (Locomotive), Verona, Pa., & Murtland bldg, Pittsburg, Pa.
Warwood Tool Co. (Coal Miners, etc.), Wheeling, W. Va.

WEBSTER MFG. CO. ("Sheldon" & "Champion"), 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

Bars (Quarry)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Sullivan Machinery Co., R'y Exch bldg, Chicago, Ill.

Bars (Shackle)

Atha Tool Co., Newark, N. J.
Verona Tool Works, Verona, Pa., & Murtland bldg., Pittsburg, Pa.

*Bars (Shaft)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Bars (Shutter)

Brass Goods Mfg. Co., Nevin & Union, Brooklyn, N. Y.
Hoeg, R. C. & Co., 11th & Catharine, Philadelphia, Pa.
Mallory, Wheeler Co., New Haven, Conn.
Norwalk Lock Co., S. Norwalk, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Peters, Jas. & Son, (Fire Shutter Bars, Wrought Iron), 1934 N Front, Phila. Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

Bars (Splice)

(See also Rail Braces & Fastenings)

Cambria Steel Co. (Cold Rolled & Cold Drawn Steel), Arcade bldg, Phila., Pa.
Carnegie Steel Co., Pittsburg, Pa.
Colorado Fuel & Iron Co., Denver Col.
Illinois Steel Co., Commercial B'k bldg, Chicago, Ill.

Interstate Iron & Steel Co., 1st Nat'l B'k bldg, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Knoxville Iron Co., Knoxville, Tenn.
Laekawanna Steel Co., Buffalo, N. Y.
Linton Rolling Mill Co., Linton, Ind.
Niagara Forged Steel Co. (Rail Braces), Buffalo, N. Y.; Works, Depew, N. Y.
Penn Iron Co. (Iron), Lancaster, Pa.
Pennsylvania Steel Co., Girard bldg, Phila., Pa.
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Reading Iron Co., Reading, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Sellers Mfg. Co. (Iron; also Sansom Bars), 27 W Chicago av, Chicago, Ill.
Tredegear Co., Richmond, Va.

*Bars (Towel)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Bars (Transom)

(See Bars, Metal Transom)

Bars & Plates (Paper Mill)

Holyoke Bar Co., Holyoke, Mass.
Simonda, A. A. & Son Co., Dayton, O.

Barytes

(See also Carbonate of Barytes)

Commercial Mining & Milling Co., Knoxville, Tenn.
Davidson, Jas. H. (Inc.), 239 Front, New York
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
Gabriel & Schall (Sulphate & Carbonate), 205 Pearl, New York
Nulsen, Klein & Krausse Mfg. Co., St. Louis, Mo.
Osborn, Clarence J. (Broker, Miners), 284 Pearl, New York
Point Mining & Milling Co., St. Louis, Mo.; Mills: Mineral Point, Mo.
Rea, S. G. & Co. ("Polar Bear"), 68 Beaver, New York
Salomon, L. A. & Bro. (Sulphate & Carbonate), 216 Pearl, New York
Scheel, Wm. H., 159 Maiden la, New York
Tennant, C. Sons & Co., 76 William, New York
Whittaker, W. H., 245 Front, New York
Williams, Jno. T. & Son (Triple Floated), 27 William, New York

Base Ball Body Protectors

Goodrich, B. F. Co., Akron, O.

Bases (Battery Cut Out)

American Enamel Co., Providence, R. I.
Bogert & Hopper, 162 William, New York
Estes, E. B. & Sons, 74 Warren, New York
Klump's, J. G. Sons, 13 Baxter, New York
Rauscher, Jno., St. Paul, Minn.
Stiles, H. A. & Co., Boston, Mass.
Union Hardware Co., Torrington, Conn.

Bases (Cafe Table)

Bethlehem Foundry & Machine Co. (Cast Iron), Front, South Bethlehem, Pa., & 149 B'way, New York

Bases (Incandescent Lamp)

Bliss-Chester Co., Providence, R. I.
Bridgeport Brass Co., Bridgeport, Conn.
Bryant Electric Co., Bridgeport, Conn.
New Jersey Lamp & Bronze Works, New Brunswick, N. J.
Providence Gas Burner Co., Providence, R. I.
Seovill Mfg. Co., Waterbury, Conn.
Steel & Johnson Mfg. Co., Waterbury, Conn.
Turner & Seymour Mfg. Co., Torrington, Conn.
Waterbury Mfg. Co., Waterbury, Conn.
White, J. H. Mfg. Co., 111 N 3d, Brooklyn, N. Y.

Bases (Iron)

Zimmerman, C. E. (For Wood Columns), Syracuse, N. Y.

*Bases (Post)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
TRUSSED CONCRETE STEEL CO., Trussed Concrete bldg, Detroit, Mich. (See adv. index & branch offices, end of book)

Bases (Trolley)

Bayonet Trolley Harp Co., Springfield, O.
Detroit Trolley & Mfg. Co., Detroit, Mich.
Milloy Electric Co., Bucyrus, O.
NUTTALL, R. D. CO. ("Union"), Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
Pneumatic Railway Equipment Co., Cleveland, Ohio
Recording Fare Register Co. ("Kelsey"), New Haven, Conn.
Sterling-Meaker Co. ("Sterling" Roller Bearing), 420 Ogden av, Newark, N. J.
Trolley Supply Co. ("Peerless" Roller Bearing), Canton, O.
United States Electric Railway Supply Co., Detroit, Mich.
Wolfe Bros. & Dillingham, Denver, Colo.

Basins (Catch)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Davison Foundry Co., East Chicago, Ind.
DOBBIE FOUNDRY & MACHINE CO., Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Duplex Mfg. & Supply Co., Cleveland, O.
Hartford Foundry Corporation ("Duplex"), Hartford, Conn.
Holbrook-Armstrong Iron Co., Racine, Wis.
Mackinnon Boiler & Machine Co., Bay City, Mich. (See adv. index, end of book)
Madison Foundry Co. (& Covers), 935 Addison rd, N E, Cleveland, O.
Pierce Supply Co., Am. Trust bldg, Cleveland, Ohio
Reinforced Concrete Pipe Co. (Reinforced Cement), Jackson, Mich.
Sessions Foundry Co., Bristol, Conn.
Van Camp Foundry & Machine Works, Decatur, Ill.
Wade Iron Sanitary Mfg. Co. ("Wade"), 42 E Harrison, Chicago, Ill.

*Baskets (Charging)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

*Baskets (Coke)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Baskets (Counter Display)

Hamblin & Russell Mfg. Co., Worcester, Mass.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Parker Wire Goods Co., Worcester, Mass.
Progressive Wire Goods Co., 529 Commerce, Philadelphia, Pa.
Wire Goods Co. (Wire), Worcester, Mass.

*Baskets (Dipping)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)
WRIGHT WIRE CO. (Steel & Brass Wire), Worcester, Mass. (See adv. index & branch offices, end of book)

*Baskets (Galvanized Iron Coke)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Baskets, Hampers & Touring Cases (Automobile)

Ballie Basket Co., 37 Harvard, Boston, Mass.
Boyle, John & Co., 114 Duane, New York
Buxton, B. W. Hamper Co. (Buxton), 7 Taylor, Springfield, Mass.
Chicago Willow & Rattan Works, Chicago, Ill.
Curado Willow Ware Co., Philadelphia, Pa.
Holbrook, A. & C. W., 74 N Main, Providence, R. I.
Keystone Willow Mfg. Co., Philadelphia, Pa.
Myers & Alexander ("Ever-dry"), 239 E 27th, New York
Post & Lester Co., Hartford, Conn.
Poughkeepsie Art Pulp Co., Poughkeepsie, N.Y.
Rumpp, C. F. & Sons (Luncheon Baskets), Philadelphia, Pa.
Williams Mfg. Co. (Ash or Rattan), Northampton, Mass.

Baskets (Mill)

AMERICAN VULCANIZED FIBRE CO.
("Laminar" Dept.), Wilmington, Del. (See
adv. index, end of book)

Ballou Mfg. Co., Belding, Mich.
Ballou, M. E. & Son, Becket, Mass.
Brown Bros. Co., Providence, R. I.
Burlington Basket Co. (Canvas), Burlington, Ia.
Crane Bros., Westfield, Mass.

**DIAMOND STATE FIBRE CO. (Hard
Fibre)**, Eismere, Del. (See adv. index, end
of book)

Holbrook Rawhide Co., Providence, R. I.
Hotchkiss Basket Co., Hinsdale, Mass.
Houghton, E. F. & Co., (Hand Split Oak), 240
Somerset, Phila. Pa.

Lane, W. T. & Bro., (Canvas & Steel Frame),
Poughkeepsie, N. Y.
Leatheroid Mfg. Co., Kennebunk, Me.

Morris & Co., (Cotton Duck), Yardville, N. J.
Spaulding-Perkins Co. (Fibre), North Roches-
ter, N. H.

Walrus Fibre Mfg. Co., Medford, Mass.
Williams Mfg. Co., (Bamboo or Oak, also Iron
Strapped & Iron Wheels or Casters), North-
ampton, Mass.

Baskets (Rawhide)

Barlow, John W. Co., Lawrence, Mass.
Holbrook Rawhide Co., Providence, R. I.

Baskets (Sheet Steel)

Hall-Benedict Mfg. Co. ("Schoenheer"), Monticello, O.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
National Enameling & Stamping Co., 374
B'way, New York, & St. Louis, Mo.

Baskets (Waste Paper)

AMERICAN VULCANIZED FIBRE CO.
(Fibre), Wilmington, Del. (See adv. index,
end of book)

Andrews Wire & Iron Works (Wire), Rock-
ford, Ill.
Architectural Iron & Wire Works, Wheeling,
W. Va.

Barbee Wire & Iron Works (Wire), 44 Dear-
born, Chicago, Ill.

Crane Bros. (Fibre), Westfield, Mass.
ESTEY WIRE WORKS (Wire), 59
Fulton, New York. (See adv. index, end of
book)

Hamblin & Russell Mfg. Co., Worcester, Mass.
Heywood Bros. & Wakefield Co. (Willow),
Gardner, Mass.

Progressive Wire Goods Co. (Wire), 529 Com-
merce, Phila., Pa.
Tatum, Sam'l C. Co. (Wire), Cincinnati, O.

Williams Mfg. Co. (Rattan, etc.), Northampton,
Mass.

Wire Goods Co. (Wire), Worcester, Mass.

Baskets (Wire)

Buffalo Wire Works Co., 316 Terrace, Buffalo,
N. Y.

City Forge & Iron Works (Andrew Plocher,
Prop.), Dayton, O.

Hamblin & Russell Mfg. Co., Worcester, Mass.

WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

Batch Mixing Plants

Heyl & Patterson, Pittsburg, Pa.

Bath Cabinets (Thermal, Etc.)

Cabinet Mfg. Co., Quincy, Ill.
Feix & Goethel, Milwaukee, Wis.

Houchin, Thos. W. Co., 341 B'way, New York
Robinson Thermal Bath Co., 713 Jefferson,
Toledo, O.

Toledo Cooker Co. ("Ideal" Vapor), Toledo, O.
World Mfg. Co., ("Quaker" Vapor), 505 Elm,
Cincinnati, O.

Bath Room Fixtures (Plate Glass)

Anderson, Geo. H. & Co., 281 W Superior,
Chicago, Ill.

Bath Room Fixtures & Furnish- ings

American Hardware Mfg. Co., Ottawa, Ill.
American Pin Co., Waterbury, Conn.
American Ring Co., Waterbury, Conn.

Anderson, Geo. H. & Co. (Plate Glass, Towel
Bars, Shelves, etc.), 281 Superior, Chicago,
Ill.

Badger Brass Mfg. Co., Kenosha, Wis.
Bailey-Farrell Mfg. Co., Pittsburg, Pa.

Barrett, Jas. Mfg. Co., 215 Franklin, Boston,
Mass.

Behrer & Co., 69 Beckman, New York
BERNZ, OTTO, S 13th & S Orange
av, Newark, N. J. (See adv. index, end of
book)

Blessing, C. A., 518 Montgomery Ave., Phila-
delphia, Pa.

Boston Mirror Co. (Mirrors, Glass Shelves),
etc.), 67 Sudbury, Boston, Mass.

Brooks, M. S. & Son (Three Arm), Chester,
Conn.

Buffalo Mfg. Co. (Soap & Sponge Holders,
Towel Racks, etc.), 1444 Niagara, Buffalo,
N. Y.

Buffalo Specialty Mfg. Co., (Adjustable Seats),
Buffalo, N. Y.

Cantslip Bath Tub Appliance Co. ("Cantslip"
Mats), 56 Pine, New York

Chambers & Co., 2 Commercial, Newark, N. J.
Clarke, Robert, 100 Schermerhorn, Brooklyn,
N. Y.

Climax Specialty Co., Seneca Falls, N. Y.
Clow, Jas. B & Sons, 344 Franklin, Chicago,
Ill.

Columbus Brass Co., Columbus, O.
Cooper, W. S. Brass Works, 437 N 12th, Phila-
delphia, Pa.

Dalton-Ingersoll Mfg. Co., 171 High, Boston,
Dayton Mfg. Co., Dayton, O.

Dearborn Brass Co., Cedar Rapids, Ia.
Detroit Sanitary Supply Co., Detroit, Mich.

Diamond Mfg. Co., Detroit, Mich.
Edwardsville Brass Co. (Soap, Cups, Tumbler-
Holders, Comb & Brush Trays, Bath Seats,
etc.), Edwardsville, Ill.

Eustis, J. P. Mfg. Co., 92 North, Boston, Mass.
Federal-Huber Co., Halsted & Fulton, Chicago,
Ill., & 244 5th av, New York

Feix & Goethel, 818 Winnebago, Milwaukee,
Wis.

Forsyth Mfg. Co. (Towel Bars, Tumbler Holder,
Comb & Brush Shelf, Soap Tray, etc.),
Buffalo, N. Y.

Frank & De Keyser (Hotel Supplies), 173 Pul-
ton, New York

Haines, Jones & Cadbury Co., 1130 Ridge av
Phila., Pa.

Hamblin & Russell Mfg. Co. (Wire), Worcester,
Mass.

Haydenville Co., Haydenville, Mass.

Heap, Wm. & Sons, Grand Haven, Mich.
Hess, Chas. Co. (Mfrs. Agents for all kinds,
Exporters only), 129 Front, New York

Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Ideal Mfg. Co., Detroit, Mich.

Illinois Malleable Iron Co., 515 Diversey boul,
Chicago, Ill.

Kleinert, I. B. Rubber Co. (Bath Curtains),
725 B'way, New York

Knott-Van Arnam Mfg. Co., Fort Wayne, Ind.
Kokomo Brass Works (Byrne & Ryan, Chicago,
Owners), Kokomo, Ind.

McCambridge & Co., Philadelphia, Pa.
McDonald, A. Y. & Morrison Mfg. Co., Du-
buque, Ia.

Manhattan Brass Co., 338 E 28th, New York
Manhattan Electrical Supply Co., 17 Park pl.,
New York, & 188 5th av, Chicago, Ill.

Manning, Bowman & Co., Meriden, Conn.
Merrie, Hugh, 226 E. 9th, Cincinnati, O.

Meyer-Sniffen Co. (Ltd.), 5 E 19th, New York
Milwaukee Brass Mfg. Co., Milwaukee, Wis.

Mott, J. L. Iron Works, 118 5th av, New York
Murdock Mfg. & Supply Co., Cincinnati, O.

National Supply Co., Toledo, O.
Nelson, N. O. Mfg. Co., St. Louis, Mo.

Newell Brass Mfg. Co., 445 N Broad, Phila.,
Pa.

Novelty Mfg. Co. (Trimmings, Soap Dishes,
Racks, etc.), Waterbury, Conn.

Ohio Brass & Iron Mfg. Co., 1199 Franklin
av, Cleveland, O.

Park & McKay Co., Detroit, Mich.

Parker, Chas. Co., Meriden, Conn.

Peck Bros. & Co., 125 Chestnut, New Haven,
Conn.

Perine Bath Room Specialty Co., 11 E 22d,
New York

Piedmont Soapstone Co. (Soapstone), 55 Con-
gress, Boston, Mass.; Works Asbestine, Va.

Pittsburg Lamp, Brass & Glass Co., Allegheny,
Pa.

Register, J. & Sons Co., Baltimore, Md.

Rundle-Spence Mfg. Co., Milwaukee, Wis.

Ryan, J. J. & Co., 105 S Jefferson, Chicago,
Ill.

Sanitary Co., Cleveland, O.

Sargent & Co., New Haven, Conn.

Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
N. Y.

Smith, E. C. Mfg. Co., 224 Washington, Chi-
cago, Ill.

Smith & Anthony Co., 48 Union, Boston, Mass.

Specialty Mfg. Co., Milwaukee, Wis.
Spence Mfg. Co., 63 2nd, Milwaukee, Wis.

Standard Sanitary Mfg. Co., Bessemer bldg.,
Pittsburg, Pa.

Stebbing, E. Mfg. Co., Springfield, Mass.
Sternau, S. & Co., 195 Plymouth, Brooklyn,
N. Y.

Street & Kent Mfg. Co., 45 Fulton, Chicago,
Ill.

Sweeney, W. H. Mfg. Co. (Soap Dishes,
Towel Bars, Brush & Tumbler Holders,
etc.), 66 Water, Brooklyn, N. Y.

Syracuse Faucet & Valve Co., Syracuse, N. Y.
Taylor, Geo., 97 Cliff, New York

Thomas Brass and Iron Co., Waukegan, Ill.
Troy Nickel Works, Jno. E. Gaitley, Prop.
(Revolving Towel Rack, etc.), Albany, N. Y.

Trenton Brass & Machine Co., Trenton, N. J.
United Brass Mfg. Co., Cleveland, O.

Van Houten, E. J. S. (Glassware & China),
74 Park pl., New York

Victor Excelsior Brass Works, 128 White,
New York

Walterscheid Machinery & Supply Co., Wichita,
Kans.

Waterbury Mfg. Co. (Bath Sprays, etc.),
Waterbury, Conn.

Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
West Mfg. Co., Columbus, O.

Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.
Wolverine Brass Works (Towel Bars, Soap
Cups, etc.), Grand Rapids, Mich.

WORCESTER PRESSED STEEL CO.
Worcester, Mass. (See adv. index, end of
book)

Bath Tub Enamels

(See Enamels, Bath Tub)

Bath Tubs (Ceramic)

(See Bath Tubs, Porcelain)

*Bath Tubs (Concrete)

AMERICAN CONCRETE CO., 80 Wil-
liam, New York. (See adv. index, end of
book)

Bath Tubs (Copper)

(See also Boilers, Copper Range)

Blessing, C. A. 516 Montgomery av, Phila., Pa.
Day Metallic Mfg. Co., 176 Jones, Detroit Mich.

Fleck Bros. Co., 44 N 5th, Phila., Pa.
Jochum, Andrew, 148 E. 50th, New York

Leclair Mfg. Co., Edwardsville, Ill.
Nelson, N. O. Mfg. Co., St. Louis, Mo.

Ronalds & Johnson Co., 43 Boerum pl, Brook-
lyn, N. Y., & 54 Cliff, New York.

Rumsey, L. M. Mfg. Co., 812 N 2nd, St. Louis,
Mo.

Seestedt Bros. Mfg. Co., Romulus, Mich.
Swain Mfg. Co., 7th & Morris, Phila., Pa.

Trageser, John Steam Copper Works, 427 W
26th, New York.

Walker Mfg. & Supply Co., Detroit, Mich.

Bath Tubs (Enameled Iron)

Barnes Mfg. Co., Mansfield, O.
Cahill Iron Works, Chattanooga, Tenn.

Colwell Lead Co., 109 Lafayette, New York
Day-Ward Co., Warren, O.

Humphries Mfg. Co., Mansfield, O.
Iron City Sanitary Mfg. Co., 18 Wood, Pitts-
burg, Pa. Works, Zellenople, Pa.

Kohler's, J. M. Sons Co., Sheboygan, Wis.
Limberg Foundry & Enameling Works, Flor-
ence rd, Cincinnati, O.

Lipp, Louis Co., Winton pl, Cincinnati, O.
McCrum-Howell Co., 103 Park av, New York

McVay & Walker, Braddock, Pa.
Mott, J. L. Iron Works, 118 5th av, New
York

National Sanitary Mfg. Co., Salem, O.
Rundle Mfg. Co., Milwaukee, Wis.

Standard Sanitary Mfg. Co., Pittsburg, Pa.
STEIN, HENRY, 48 Cliff, N. Y. (See
adv. index, end of book)

Stuart & Peterson Co., Burlington, N. J.
United States Sanitary Mfg. Co., Arrott bldg.,
Pittsburg, Pa., & Monaca, Pa.

Weiskittle, Anton & Son, Washington & Ali-
ceanna, Baltimore, Md.

Wheeling Enameled Iron Co. ("Porcelain"),
Wheeling, W. Va.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Bath Tubs (Folding)

Davol Rubber Co. ("Robinson" Rubber), Provi-
dence, R. I.

Folding Bath Tub Co., Marshall, Mich.

Bath Tubs (Galvanized Steel Enameled)

Walker Mfg. & Supply Co., Detroit, Mich.

Bath Tubs (Infants')

Central Stamping Co., 174 Fulton, New York
Geuder & Paeschke & Frey Co. (Galvanized, Japanned & Enameled Sheet Iron), Milwaukee, Wis.

Bath Tubs (Porcelain)

American Porcelain Co., New Brighton, Pa.
Brian Pottery Co., Trenton, N. J.
Monument Pottery Co., Trenton, N. J.
Mott, J. L. Iron Works, 118 5th av, New York
Perth Amboy Ceramic Co., Perth Amboy, N. J.
Standard Sanitary Pottery Co., Elizabeth, N. J.
Trenton Fire Clay & Porcelain Co., Trenton, N. J.
Trenton Potteries Co., Trenton, N. J.

Bath Tubs (Sheet Steel)

Day Metallic Co. (And Steel Clad), Detroit, Mich.
FRIEDLEY - VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)
Leclair Mfg. Co. ("& Steel Clad"), Edwardsville, Ill.
Pressed Steel Sanitary Mfg. Co. (Pressed Steel Rolled Rim), Detroit, Mich.
Seamless Steel Bathtub Co., Mount Elliot & Harper av, Detroit, Mich.
Trageser's, Jno., Steam Copper Works, 447 W 26th, New York
Walker Mfg. & Supply Co., Detroit, Mich.

Bath Tubs (Slate)

(See Laundry Tubs, Slate)

Bath Tubs (Tin)

Dover Stamping & Mfg. Co. ("Enameled White Inside"), Cambridge, Mass.

Baths (Needle & Shower)

Adee, Fred & Co., 44 Cliff, New York
Cooper, W. S. Brass Works, Phila., Pa.
Clow, Jas. B. & Sons, 342 Franklin, Chicago, Ill.
Dalton-Ingersoll Mfg. Co., Boston, Mass.
Edwardsville Brass Co., Edwardsville, Ill.
Federal-Huber Co., Halsted & Fulton, Chicago, Ill., & 244 5th av, New York
Haines, Jones & Cadbury Co., 1136 Rldge av, Phila., Pa.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Illinois Malleable Iron Co., 515 Diversey boul, Chicago, Ill.
McElraevy & Hauck (Enameled Iron & Solid Porcelain Nickle Plated Shower), 440 Broadway, Brooklyn, N. Y.
Mayor, Lane & Co., 128 White, New York
Meyer-Sniffen Co. (Ltd.), 11 W 36th, New York
Mott, J. L. Iron Works, 118 5th av, New York
Newell Brass Mfg. Co., 445 N Broad, Phila., Pa.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Peck Bros. & Co., New Haven, Conn.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Sanitary Company ("Paragon"), Cleveland, O.
Speakman Supply & Pipe Co., Wilmington, Del.
Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburg, Pa.
Street & Kent Mfg. Co., 41 Fulton, Chicago, Ill.
Taylor, Geo., 97 Cliff, New York
Victor Excelsior Brass Works, 128 White, New York
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Baths (Plunge & Shower for Ships)

Dalton-Ingersoll Co., Boston, Mass.

Baths (Portable Shower)

Chicago Shower Mfg. Co., 185 Dearborn, Chicago, Ill.
Cline, L. Mfg. Co., 1239 Wabash av, Chicago, Ill.
Mitchell & Van Meter Co. ("Cascade"), Linfield, Pa.
Wolverine Brass Works, Grand Rapids, Mich.

Batteries (Automobile)

(See Batteries, Dry; also Batteries, Storage)

Batteries (Blasting)

(See also Blasting Fuse, Caps, Etc.)

Alpha Battery Co., 26 Cortlandt, New York
DU PONT, E. I., de NEMOURS POW-
der Co. ("Smith"), Wilmington, Del. (See adv. index & branch offices, end of book)
Macbeth Fuse Works ("Victor," "Pull-Up," "U. S. Standard"), Pompton Lake, N. J.
Star Electric Fuse Works ("Lilliput," "Push-Down"), Wilkesbarre, Pa.

Batteries (Closed Circuit)

(See Batteries, Open & Closed Circuit)

Batteries (Dry)

A. D. L. Auto Cell Co., 106 W 30th, New York
Allen, D. H. & Co., Miamisburg, O.
American Carbon & Battery Co., East St. Louis, Ill.
American Electrical Novelty & Mfg Co. ("Ever Ready"), 304 Hudson, New York
American Endoscopic Co., Providence, R. I.
American Telephone Co., 64th & State, Chicago, Ill.
Ampere Mfg. Co., 42 B'way, New York
Badger Gas & Gasoline Engine Co., Kansas City, Kan.
BUNNELL, J. H. & CO. ("JOVE,"
"Standard," "Mascot" & "Best"), Park pl. & Church, New York. (See adv. index, end of book)

SEND ORDERS

FOR

"JOVE"

(Best) Dry Batteries

Annunciators
Burglar Alarms
Condensers

Construction Tools
Fire Alarm Boxes
Telegraph Apparatus
Track Relays, Etc.

To J. H.

BUNNELL

& CO.,

Park Place and Church St. NEW YORK

GET CATALOG DEPT. H.

Burnley Battery & Mfg. Co. ("Burnley"), North East, Pa.
Cary, Edw. E. Co., 59 Park pl, New York.
Central Telephone & Electric Co., St. Louis, Mo.
Chloride of Silver Dry Cell Battery Co., Baltimore, Md.
Commercial Electrical Supply Co. ("Commercial"), St. Louis, Mo.
Cracraft, Leich Electric Co. ("Eureka"), Genoa, Ill.
Crown Battery Co., 192 S boul, New York
Delta Mfg. Co., Bloomfield, N. J.
Eastern Carbon Works ("Hercules," "High Grade," "Gas Engine," "Atlantic"), Jersey City, N. J.
Electric Appliance Co., Burlington, Kan.
Electric Goods Mfg. Co. ("Sammon"), Semi-Dry, Boston, Mass.
Electric Mfg. Co. ("Emco" Sealed), St. Paul, Minn.
Elkhart Dry Battery Co., Elkhart, Ind.

Empire State Dry Battery Co. ("Red-Star," "White-Star"), 55 Dey, New York
Excelsior Supply Co. ("Xler"), 233 Randolph, Chicago, Ill.
Fletcher-Stanley Co., 32 Franklin, New York
Franco-American Elec. Novelty Co., 111 Chambers, New York
French Battery & Carbon Co. ("Fleur-de-Lis"), Madison, Wis.
Geen Electrical Mfg. Co. ("Superior"), 180 E Lake, Chicago, Ill.
Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
Heinrich Electrical Novelty Co., 191½ Fulton, New York
Hirleman, C. J., 17 Laight, New York
Hite Electric Co., 307 S 2nd, Phila., Pa.
Holtzer-Cabot Electric Co., Brookline, Mass.
Hubbs-Neer Electrical Mfg. Co. ("20th Century"), Butler, O.
Irish, W. F., Electric Co. ("Shamrock," "Emerald"), 60 Cortlandt, New York
Keystone Elec. Telephone Co., Pittsburg, Pa.
Lincoln Electric Co. ("Enburo," "Hi-Po"), Union sq, New York
Long Distance Telephone Mfg Co., South Bend, Ind.
Lutz-Lockwood Mfg. Co. ("O-K," "S-X"), 39 Cortlandt, New York
Manhattan Electric Supply Co. ("Red Seal" & "Mesco"), 17 Park pl, New York
Mystic Electric Gas Lighter Co., 119 Bible House, New York
National Carbon Co. ("Columbia," "Red Top," "Stand-By," "Globe"), Cleveland, O.
North Electric Co. ("Cannon Cracker"), Cleveland, O.
Nungesser Electric Battery Co. ("Acme," "1900," "Rapid Fire," "Ignio"), Cleveland, Ohio
Ohio Electric Works, Cleveland, O.
Reykall Electric Co., 143 Liberty, New York
Roche, Wm. ("Blue Ribbon," "Autog," "New Standard"), Jersey City, N. J.
Rock Island Battery Co., Cincinnati, O.
Royal Battery Co. ("Geecee" Ignition), 108 Duane, New York
Semi-Dry Battery Co. ("Dunn"), Harrison, N. J.
Sibley & Pitman ("Climax" Auto Cells for Automobile & Gas Engine Ignition), 26 Warren, New York
Stackpole Battery Co., ("Elk," "Autocrat," "Radium," "Hello," "Wizard," "Sun"), St. Marys, Pa.
Standard Sheet Metal Co. ("Raydex" Standard Dry Cell for Automobiles, Gas Engines, Motor Boats, etc.), Passaic, N. J.
Stanley & Patterson ("Exerter," "Matchless"), 23 Murray, New York
Star Electric Co., Niles, O.
Tardle, Emil J., 221 6th av, New York
United Electrical Mfg. Co. ("Crescent"), 1 B'way, New York
Universal Novelty Co. ("Universal"), 163 W 29th, New York
Vallee, Garrett A. & Co. ("Ajax"), 36 N 6th, Phila., Pa.
Voltamp Electric Mfg. Co., Baltimore, Md.
Wappler Electric Controller Co., 177 E 87th, New York
Waterbury Battery Co. ("Gee Whiz"), Waterbury, Conn.
Wesco Supply Co. ("Red Shield"), St. Louis, Mo.
West Coast Mfg. Co. ("Sunset"), San Francisco, Cal.
Westchester Appliance Co., Yonkers, N. Y.
Western Electric Co. ("999," "Pony," "Liberty," "Blue Bell"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm, H. Battery Co. ("Helm"), 70 Frost, Brooklyn, N. Y.

*Batteries (Ignition)

DELTA MFG. CO., Bloomfield, N. J.

Batteries (Medical)

(And Electro Medical Apparatus)

Birtman, C. F. Co., 152 Lake, Chicago, Ill.
BUNNELL, J. H. & CO. ("No.-1-D-D,"
"No. 6," "Milford," "Auto Kure"), Park pl. & Church, New York. (See adv. index, end of book)
Chloride of Silver Dry Cell Battery Co., Baltimore, Md.
Detroit Medical Battery Co., Detroit, Mich.
Electro Therapeutic Mfg. Co., Indianapolis, Ind.
Flemming, Otto, 1025 Arch, Phila., Pa.
Ford, W. F. & Co., 425 5th av, New York
Gorman Electric Co., St. Paul, Minn.
Hite Electric Co., 307 S 2d, Phila., Pa.

international Instrument Co., Cambridge, Mass.
 Jones & Gross Electric Co. ("Meteor"), 62 Vesey, New York
 Kendrick & Davis ("Sparker"), Lebanon, N. H.
 Keystone Electric Co., 135 S 10th, Phila., Pa.
 Kidder, Jerome Mfg. Co., 70 Bible House, New York
 Knapp Elec. & Novelty Co. ("Verilife," "Electrohits"), 511 W 51st, New York
 McElliott, D. P., 78 State, Chicago, Ill.
 McIntosh Battery & Optical Co., 227 E Washington, Chicago, Ill.
 Manhattan Electrical Supply Co. ("Home," "Anti-Doc"), 17 Park pl, New York
 Manufacturers & Investors Electric Co., 82 Nassau, New York
 Nenominee Elec. Mfg. Co., Nenomiuee, Mich.
 Meyer, Wm. Co., 56 5th av, Chicago, Ill.
 Meyrowitz Mfg Co. ("Vetter"), 104 E 23rd, New York
 Ohio Electric Works, Cleveland, O.
 Ostrander, W. R. & Co., 22 Dey, New York
 Partrick, Carter & Wilkins Co., 22nd & Wood, Phila., Pa.
 Pignolet, Louis M., 78 Cortlandt, New York
 Pullen, Leon W. Co., 618 Chestnut, Phila., Pa.
 Scheidel-Western X Ray Coil Co., 199 Madison, Chicago, Ill.
 Shoenberg, Milton H., San Francisco, Cal.
 Stanley & Patterson ("Electrotonic," "Vetter"), 23 Murray, New York
 Tardie, E. J., 221 6th av, New York
 Ullery, J. E. & Co., 4107 Cottage Grove av, Chicago, Ill.
 Van Houten & Ten Broeck, 214 E 23rd, New York
 Voltamp Elec. Mfg Co., Baltimore, Md.
 Wagner, R. V. & Co., 140 Wabash av, Chicago, Ill.
 Waite & Bartlett Mfg. Co., 113 W 31st, New York
 Wappler Elec. Controller Co., 177 E 87th, New York
 Williams, E. Q., Syracuse, N. Y.
 Williams, Brown & Earle (Massey Controller), 918 Chestnut, Phila., Pa.

Batteries (Open & Closed Circuit)

(Open & Closed Circuit Wet Batteries)

American Carbon & Battery Co. ("Phoenix"), East St. Louis, Ill.
 Battery Supplies Co. ("Gladstone-Lalande," "B. S. C. O."), Newark, N. J.
BUNNELL, J. H. & Co. ("Microphone"), Park pl & Church, New York (See adv. index, end of book)
 Burn-Boston Battery & Mfg. Co., Boston, Mass.
 Clark & Mills Elec. Co. ("Excello"), Boston, Mass.
 Delta Mfg. Co. ("Delta"), Bloomfield, N. J.
 Eastern Carbon Works, Jersey City, N. J.
 Edison Mfg. Co., 10 5th av, New York
 Electric Goods Mfg Co. ("Samson," "Nomas"), Boston, Mass.
 Gordon Battery Co. ("London," "Law"), Aldeue-Roselle, N. J.
 Hirlimann, Chas. J. ("Champion," "O. K."), 17 Laight, New York
 Hite Electric Co., 307 S 2nd, Phila., Pa.
 Jonas Battery Co. (Dry), Toledo, O.
 Manhattan Electrical Supply Co., 17 Park Pl., New York
 Muller, Albert ("Porox"), 145 W 49th, New York
 National Carbon Co. ("Duplex," "Klondike," "Columbia"), Cleveland, O.
 Nungesser Electric Battery Co. (Chloride of Silver), King av, N E, Cleveland, O.
 Partrick, Carter & Wilkins Co., 22nd & Wood, Phila., Pa.
 Pullen, Leon W. Electric Co., 618 Chestnut, Phila., Pa.
 Rhode Island Telephone & Electric Co., Providence, R. I.
 Stanley & Patterson ("Gold Medal" & "Faraday"), 23 Murray, New York
 Van Houten & Ten Broeck (Fitch), 214 E 23d, New York
 Waterbury Battery Co. ("Victor," "Excelsior," "Schoenmehl"), Waterbury, Conn.
 Western Electric Co. ("Weco"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 White, S. S. Dental Mfg. Co. ("Partz"), 1130 Chestnut, Phila., Pa.

Batteries (Stamp)

(See Mills, Stamp)

Batteries (Storage)

American Battery Co. ("Invincible"), 172 S Clinton, Chicago, Ill.
 American Storage Battery Co. ("Eckstromer"), Boston, Mass.
 Battery Co., Milwaukee, Wis.
 Champion, Albert Co. ("B. G. S." Imported), Boston, Mass.
 Chicago Battery Co. ("Duro"), 1255 Michigan av, Chicago, Ill.
 Churcher Elec. & Mfg. Co., Cincinnati, O.
 Commercial Battery Elec. Co. ("Combat"), 204 Michigan av, Chicago, Ill.
 Constantine & Ludlam, 69 Beekman, New York
 Dayton Electrical Mfg. Co. ("Apple"), Dayton, Ohio
 Dayton Mfg. Co. ("Silvey"), Dayton, O.
 Decker Electrical Mfg. Co., Bullitt Bldg, Phila., Pa.
 Domestic Electric Equipment Co., 503 W 44th, New York
 Eastern Battery Co., Pawtucket, R. I.
 Edison Storage Battery Co. ("Edison"), Orange, N. J.
 Electric Storage Battery Co. ("Exide," "Chloride" & "Tudor Accumulator"), 19th & Allegheny av, Phila., Pa.
 Electric Supply & Battery Co., Cleveland, O.
 Electric Supply & Storage Battery Co., Columbus, O.
 Evansville Battery & Electrical Co. ("Porter"), Evansville, Ind.
 Excelsior Supply Co. ("X. L. C. R."), 233 Randolph, Chicago, Ill.
 Geiszler Bros., 514 W 57th, New York
 Geen Electrical Mfg. Co. ("Genco"), 180 E Lake, Chicago, Ill.
 General Accumulator & Battery Co. ("Radiatum"), Milwaukee, Wis.
 General Storage Battery Co. ("Bijour" High Duty), 42 B'way, New York
 Gould Storage Battery Co., 345 5th av, New York
 Haschke Storage Battery Co., 271 Michigan av, Chicago, Ill.
 Heinrich Electrical Novelty Co., 192½ Fulton, Brooklyn, N. Y.
 Helios Mfg. Co. ("Morrison"), Garden nr Brill, Bridesburg, Phila., Pa.
 Hoosier Storage Battery Co. ("Fire-Fly"), Evansville, Ind.
 Imperial Storage Battery Co., Quincy, Mass.
 Ironsides Battery Co., Cold Spring, N. Y.
 Knowles, C. S. ("Speed"), Boston, Mass.
 Look Electric Co., 1545 Michigan av, Chicago, Ill.
 Mac Rae, Hector C. ("Champion"), Baltimore, Md.
 Michigan Storage Battery Co., Detroit, Mich.
 Miller Signal Co. ("Bestogo"), Monadnock Bldg, Chicago, Ill.
 Mound City Battery Co., St. Louis, Mo.
 Muller Albert ("Porox"), 145 W 49th, New York
 National Battery Co. ("National," "Sperry," "Unit"), Buffalo, N. Y.
 New England Motor Co. ("Rex"), Lowell, Mass.
 Northwestern Storage Battery Co., Milwaukee, Wis.
 Phila. Storage Battery Co. (For Commercial & Pleasure Vehicles), Emerald & Tioga, Phila., Pa.
 Radio Battery Co., 43 Exchange pl, New York
 R. I. Electromobile Co., 32 Fountain, Providence, R. I.
 Royal Battery Co. ("Geecee"), 108 Duane, New York
 Schug Elec. Mfg. Co., Detroit, Mich.
 Signalphone Alarm Co., Milwaukee, Wis.
 Standard Electric Accumulator Co. ("Clare"), 141 B'way, New York
 Storage Battery Supply Co., 239 E 27th, New York
 Syracuse Storage Battery Co., Syracuse, N. Y.
 Toledo Storage & Battery Co. ("Miller"), Toledo, O.
 Tray Plate Battery Co., Binghamton, N. Y.

United States Battery Co., New Rochelle, N. Y.
 Universal Electric Storage Battery Co. ("Morrison"), 108 La Salle, Chicago, Ill.
 Vesta Accumulator Co., 1336 Michigan av, Chicago, Ill.
 Vivax Storage Battery Co., 2224 Michigan av, Chicago, Ill.
 Weisenborn Elec. Co. ("Ohio"), Dayton, O.
 Western Storage Battery Co. ("Pumpetty"), Indianapolis, Ind.
WESTINGHOUSE MACHINE CO.
 Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)
 White City Electric Co., 377 Dearborn, Chicago, Ill.
 Willard Storage Battery Co., Cleveland, O.
 Witherbee Igniter Co., 1876 B'way, New York
 Witherbee, Thos. S. ("Wright-Witherbee"), 433 W 42d, New York
 Zoar Battery Co. (Stationary & Portable Ignition), Zoar, O.

Batteries (Storage, Electric Railway)

(See Batteries, Storage)

Battery Accessories

NATIONAL ACME MFG. CO., 7500
 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
 Storage Battery Supply Co. (Of All Kinds), 239 E 27th, New York

*Battery Chargers

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Battery Chemicals

American Electrical Works ("Crescent"), Phila., Pa.
 Barrett, M. L. & Co. (Sal-Ammoniac Only), 219 Lake, Chicago, Ill.
 Butterworth-Judson Co. (Blue Vitriol), New ark, N. J.
 Cary, Edw. E. Co. (Importers), 59 Park pl, New York
 Cochrane Chemical Co. (Blue Vitriol), Boston, Mass.
 Contact Process Co., Buffalo, N. Y.
 Cooper, Chas. & Co., 194 Worth, New York
DOGGETT, STANLEY, 101 Beckman,
 New York. (See adv. index, end of book)
 Eimer & Amend, 18th & 3d av, New York
 Fergusson Bros. (Blue Vitriol), 109 Chestnut, Philadelphia, Pa.
 French Battery & Carbon Co. (Importers), Madison, Wis.
 General Chemical Co., 25 Broad, New York
 Globe Chemical Co., Cincinnati, O.
 Grasselli Chemical Co. (Blue Vitriol), Cleveland, O., & 63 Wall, New York
 Harding & Fancourt, 255 N Front, Phila., Pa.
 Harshaw Fuller & Goodwin Co., Cleveland, O.
 Innis, Spelden & Co. (Blue Vitriol), 46 Cliff, New York
 Joeck, Hector C., 215 Russell, Brooklyn, N. Y.
 Kalbfleisch, Franklin H. Co., B'way & 16th, New York
 Klipstein, A. & Co., 122 Pearl, New York
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Merck & Co., 8th & University pl, New York
 Nichols Copper Co. (Blue Vitriol), 25 Broad, New York
 Penna. Salt Mfg. Co. (Blue Vitriol), 115 Chestnut, Phila., Pa.
 Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.
 Sholes, Chas. E. Co., 164 Front, New York
 Toch Bros., 320 5th av, New York
 Western Chemical Mfg. Co., Denver, Colo.
 Zucker, Levett & Loeb Co., 516 W 25th, New York

Battery Coppers

Beattie Zinc Works Co., Reading, Mass.
 Bryant Zinc Co., 158 W Van Buren, Chicago, Ill.
 Edes Mfg. Co., Plymouth, Mass.
 Fox, Jno. M. & Co., Portland, Me.
 Grasselli Chemical Co., Cleveland, O., & 60 Wall, New York
MERCHANT & EVANS CO. (Inc.)
 (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Pearce, Fred'k Co., 20 Rose, New York
PHOENIX SPECIALTY MFG. CO., 48
 Duane, New York. (See adv. index, end of book)

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

Battery Jars

American Hard Rubber Co., 9 Mercer, New York
 Brookfield Glass Co. (Glass), 220 B'way, New York
 Canton Glass Co., Marion, Ind.
 Consumers' Rubber Co. ("Euclid," Hard Rubber), Cleveland, O.
 Cumberland Glass Mfg. Co., Bridgeton, N. J.
DIAMOND RUBBER CO., Akron, O.
 (See adv. index, end of book)
 Gayner Glass Works, Salem, N. J.
 Gillinder & Sons, Inc. (Glass), 135 Oxford, Phila., Pa.
 Hemingray Glass Co., Covington, Ky.
 Illinois Glass Co., St. Louis, Mo.
 Luzerne Rubber Co., Trenton, N. J.
MISSISSIPPI WIRE GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)
 Morgan & Wright (Hard Rubber), Detroit, Mich.
RODEFER, T. A., Bellaire, O. (See adv. index, end of book)
 Salem Glass Works, Salem, N. J.
 Stokes, Jos. Rubber Co. (Hard Rubber), Trenton, N. J.
 United States Glass Mfg. Co., Pittsburg, Pa.
 Vulcanized Rubber Co., 488 B'way, New York
 Whittall, Tatum Co., 410 Race, Phila., Pa.
 Whitney Glass Works, 227 S Front, Phila., Pa.

Battery Zincs

Beattie Zinc Works Co., Reading, Mass.
 Brady Brass Co., Jersey City, N. J.
 Bryant Mfg. Co. (All Patterns), 21 Ontario, Chicago, Ill.
 Bryant Zinc Co., 158 W Van Buren, Chicago, Ill.
 Edes Mfg. Co., Plymouth, Mass.
 Grasselli Chemical Co. ("Franklin"), Cleveland, O., & 60 Wall, New York
 Matthiessen & Hegeler Zinc Co. ("Leclanche" Battery Bars), La Salle, Ill.
 Pacific Metal Works, San Francisco, Cal.
 Pearce, Fred'k Co., 20 Rose, New York
 Phillips, E. & Sons, South Hanover, Mass.
 Prescott, J. B. & Son, Webster, Mass.
 Railroad Supply Co., 215 Dearborn, Chicago, Ill.
 Slack, Ben. F. Brass Mfg. Co., Denver, Colo.
 Waterbury Battery Co., Waterbury, Conn.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Bauxite

National Bauxite Co., Rome, Ga.
 Republic Mining & Mfg. Co., Harrison bldg, Phila., Pa.

***Beads (Picture Moulding)**

HUNT METAL CORNER CO., West-boro, Mass. (See adv. index, end of book)

***Beads (Plasterers' Ground)**

HUNT METAL CORNER CO., West-boro, Mass. (See adv. index, end of book)

***Beads (Wainscot)**

HUNT METAL CORNER CO., West-boro, Mass. (See adv. index, end of book)

Beams (Steel Plow)

(See Plow Beams, Steel)

***Bearing Parts (Roller)**

NATIONAL - ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)

Bearings (Anti-Friction)

(See Babbitt Metal; also Bearings, Various Kinds; also Brasses, Car & Engine)

Bearings (Ball)

(See also Balls, Steel; also Bearings, Roller)

American Ball Bearing Co., Cleveland, O.
 American Ball Co., Providence, R. I.
 Auburn Ball Bearing Co., Rochester, N. Y.
 Baltimore Ball Bearing Co., Calvert bldg, Baltimore, Md.
 Bantam Anti-Friction Co., Bantam, Conn.
 Boston Gear Works (Thrust Collar, etc.), Norfolk Downs, Mass.
 Bown Roller Bearing Co., Dayton, O.
 Bretz, J. S. Co. ("F. & S."), Times bldg, New York
 Camel Co. ("Hartman" Center Plate & Side for Cars), Old Colony bldg, Chicago, Ill.
 Chapman Double Ball Bearing Co. of America, (Double, for Shafting, etc.), 136 Liberty, Garford Co., Elyria, O.
 Guinn Ball Bearing Co., 361 North, Baltimore, Md.
 Hess-Bright Mfg. Co., 19th & Hamilton, Philadelphia, Pa.
 Johnson & Sharp Mfg. Co., (Hollow Steel), Ottumwa, Ia.
KNOWLTON, M. D. CO. (Thrust), Rochester, N. Y. (See adv. index & branch offices, end of book)
 Mark Mfg. Co., Evanston, Ill.
 New Departure Mfg. Co. ("Two-In-One"), Bristol, Conn.
 Pressed Steel Mfg. Co. ("Knife's"), The Bourse, Phila., Pa.
 Parks Ball Bearing Machine Co. (For Machinery), Cincinnati, O.
 Rivett Lathe & Bearing Co. ("Rivett"), Brighton, Boston, Mass.
 Sartus Ball Bearing Co., 155 Spring, New York
 Standard Roller Bearing Co., (Thrust, etc.), 50th & Lancaster, Phila., Pa.
 Symington, T. H. Co. ("Baltimore"), Baltimore, Md.

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Bearings (Bronze Metal)

Damascus Bronze Co. ("Damascus"), Allegheny, Pa.
 Eureka Tempered Copper Wks., North East, Pa.
 Graphite Lubricating Co., Boundbrook, N. J.
LAWRENCEVILLE BRONZE CO., 31st & Penn av, Pittsburg, Pa. (See adv. index, end of book)
 Long & Stillman, 149 B'way, New York
LUMEN BEARING CO., Buffalo, New York. (See adv. index, end of book)
NORTH AMERICAN METALINE CO., 4 West av, Long Island City, N. Y. (See adv. index, end of book)
 Pittsburg White Metal Co., Pittsburg, Pa.
 Reeves, P. S. & Son, 1415 Catharine, Phila., Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Bearings (Car Journal)

(See Bearings, Journal)

Bearings (Electrical)

(See Bearings, Electrical, Motor, Etc.)

Bearings (Electrical, Motor, Etc.)

American Glyco Metal Co. ("Glyco"), 15 Milwaukee, Wis.
 Brady Brass Co., Jersey City, N. J.
 Central Union Brass Co., St. Louis, Mo.
 Columbia Machine Works & Malleable Iron Co. (For Armatures, etc.), 269 Chestnut, Brooklyn, N. Y.
 Curtis Motor Truck Co. ("Curtis," Truck Journal), Decatur, Ill.
 Electric Railway Equipment Co., Cincinnati, O.
 Electric Traction Supply Co., St. Louis, Mo.
 Eureka Tempered Copper Works, North East, Pa.
 Frictionless Metal Co., Chattanooga, Tenn.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Graphite Lubricating Co. (Graphite), Boundbrook, N. J.
 Holmes Fibre Graphite Mfg. Co., 5155 Wakefield, Gtn, Phila., Pa.
 Long & Stillman, 149 B'way, New York
LUMEN BEARING CO. ("Lumen," Bronze), Buffalo, N. Y. (See adv. index, end of book)
 Magnus Metal Co. (Armature, Motor, etc.), 111 B'way, New York
 More-Jones Brass & Metal Co. ("Tiger," "Artic," "Pullman"), St. Louis, Mo.
 Muzzy-Lyon Co., Detroit, Mich.
NORTH AMERICAN METALINE CO., Long Island City, Boro. of Queens, New York
 Ohio Brass Co. (Genuine ell Metal), Mansfield, O.
 Phosphor-Bronze Smelting Co., 22d & Washington av, Phila., Pa.
 Pittsburg White Metal Co., Pittsburg, Pa., & 160 Leroy, New York
 Reeves, Paul S. & Son (Brass, Bronze & Phosphor Bronze), 1415 Catharine, Phila., Pa.
 Ridlon, Frank Co. ("Ridlon," Bronze & Composition), 251 Boston, Mass.
 Standard Metal Mfg. Co., Old Colony bldg, Chicago, Ill.
STANDARD ROLLER BEARING CO. ("Merrick," Roller Bearing), 50th & Lancaster av, Phila., Pa. (See adv. index, end of book)
 Symington, T. H. Co. ("Baltimore," Center & Side), Baltimore, Md.
 Taylor Elec. Truck Co. ("Taylor," Journal), Troy, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Wing, J. T. & Co. (Graphite), Detroit, Mich.

Bearings (Graphite)

Edna Smelting & Refining Co., 525 Reading rd, Cincinnati, O., & Monadnock blk, Chicago, Ill.
 Graphite Lubricating Co., Boundbrook, N. J.

LUMEN BRONZE BEARINGS

Twenty Per Cent. Lighter Than Ordinary Bronze.

Will Not Cut Journals or Pins.

Combines the Strength of Bronze with the Anti-Frictional Qualities of Babbitt.

In use by the leading builders of Motors, Engines, Steam Pumps, Machine Tools, Electrical, Hoisting and Conveying Machinery of all kinds.

Sold either in Castings or Pig Metal under U. S. and Canadian Patents by the

LUMEN BEARING COMPANY,

WILLIAM H. BARR, General Manager

BUFFALO, N. Y.

TORONTO, ONT.

Holmes Fibre Graphite Mfg. Co., 5155 Wakefield Gtn., Phila., Pa.
Wing. J. T. & Co., 19 Woodward av., Detroit, Mich.

Bearings (Hard Fibre)

(See Fibre Manufacturers, Hard)

Bearings (Journal)

Acme Journal Bearing Co., 49 S Canal, Chicago, Ill.
Ajax Metal Co., 46 Richmond, Phila., Pa.
Atlantic Brass Co. (The "A. B. C."), 192 B'way, New York
Aurora Metal Co., Aurora, Ill.
Besley, Chas. H. & Co. ("Hemlet"), 15 S Clinton, Chicago, Ill.
Blake, Edwin J. (Car & Locomotive), Hartford, Conn.
Brady Brass Co., Jersey City, N. J.
Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Buda Foundry & Mfg. Co. (Car, etc.), Railway Exchange bldg., Chicago, Ill.; Works: Harvey, Ill.

Chain Belt Co. (Solid), Milwaukee, Wis.
Climax Bearing Co. ("Camel"), Detroit, Mich.
Clum & Atkinson ("Plata" White Brass), Rochester, N. Y.

Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.

Damascus Bronze Co., Allegheny, Pa.
Dodge Mfg. Co., Mishawaka, Ind.

Edna Smelting & Refining Co. (Porteuc Graphite), 525 Reading rd., Cincinnati, O.
Electric Service Supply Co., 1024 Filbert, Phila., Pa.

Eureka Tempered Copper Works, North East, Pa.
Falcon Bronze Co., Youngstown, O.
Frictionless Metal Co., Chattanooga, Tenn.

Graham, Jas. & Co., New Haven, Conn.
Hewitt Mfg. Co., Railway Exchange bldg., Chicago, Ill.

Hyatt Roller Bearing Co., Harrison, N. J.
Keystone Bronze Co. (Car & Rolling Mill), 38th & A. V. Ry., Pittsburgh, Pa.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

Kirby Equipment Co., Railway Exchange, Chicago, Ill.

Long & Stillman, 149 B'way, New York

LUMEN BEARING CO., Buffalo, New York. (See adv. index, end of book)

McGuire-Cummings Mfg. Co., 112 N Sangamon, Chicago, Ill.

Magnolia Metal Co., 511 W 13th, New York

Magnus Metal Co. (Lead Lined, etc.), 111 B'way, New York

Meneely, Geo. R. & Son, Watervliet, N. Y.

More-Jones Brass & Metal Co., 3138 N B'way, St. Louis, Mo.

Mnzy-Lyon Co., 149 W. Larned, Detroit, Mich.

National Fire Appliance Co., 161 Franklin, Boston, Mass.

National-Fulton Brass Mfg. Co., Detroit, Mich.

National Lead Co., 100 William, New York

NORTH AMERICAN METALINE CO., 4 West av, Long Island City, N. Y. (See adv. index, end of book)

Noyes Brass Works, Erie, Pa.

Ohio Brass Co., Mansfield, O.

Phosphor-Bronze Smelting Co., Phila., Pa.

Reeves, Paul S. & Son (Brass, Bronze & Phosphor Bronze), 1415 Catharine, Phila., Pa.

Rogers Metal Works (Car), Kansas City, Mo.

Rowell, W. G. Co., Bridgeport, Conn.

Simplex Railway Appliance Co. (Susemihl Roller Side), Chicago, Ill., & Hammond, Ind.

Spacke, F. W. Machine Co., Indianapolis, Ind.

Spiral Bearing & Supply Co., 74 B'way, New York

Streeter Journal Bearing Co., Monadnock bldg., Chicago, Ill.

Taylor Electric Truck Co., Troy, N. Y.

Watson, Frye & Co., Bath, Me.

Wendell & MacDuffie, 50 Church, New York

Williams, E. A. & Son, Jersey City, N. J.

Bearings (Lead Lined)

Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.

Long & Stillman, 149 B'way, New York

Reeves, Paul S. & Son, 1415 Catharine, Philadelphia, Pa.

Bearings (Locomotive)

(See Bearings, Journal)

*Bearings (Lumen Bronze)

LUMEN BEARING CO., Buffalo, New York. (See adv. index, end of book)

Bearings (Motor)

(See Bearings, Electrical, Motor, Etc.)

Bearings (Oilless)

Arguto Oilless Bearing Co., Wayne Junction, Philadelphia, Pa.

Long & Stillman, 149 B'way, New York

NORTH AMERICAN METALINE CO., ("Metaline," Self-Lubricating), 4 West av, Long Island City, N. Y. (See adv. index, end of book)

Bearings (Phosphor Bronze)

(See Castings, Phosphor Bronze)

Bearings (Rocker Side)

Cardwell Mfg. Co., Monadnock hlk., Chicago, Ill.

Bearings (Roller)

(See also Bearings, Ball; also Bearings, Side)

American Roller Bearing Co., South Framingham, Mass.

Anti-Friction Journal Box Co. ("Alien"), 716 E 1st, Los Angeles, Cal.

Arguto Oilless Bearing Co., Wayne Junction, Phila., Pa.

Bantam Anti-Friction Co., Bantam, Conn.

Bown Roller Bearing Co., Dayton, O.

Gillette Roller Bearing Co., Grand Rapids, Mich.

Hyatt Roller Bearing Co., Harrison, N. J.

International Anti-Friction Roller Bearing Co. ("Sharpneck" Anti-Friction), Denver, Colo.

Iroquois Machine Co., Providence, R. I.

Moffatt Railway Bearing Co., 25 Broad, New York

Moffett Vehicle Bearing Co., Saginaw, Mich.

NATIONAL-ACME MFG. CO., Cleveland, O. (See adv. index, end of book)

Pickering Governor Co. (Roller Relief), Portland, Conn.

Sparks, Withington Co., Jackson, Mich.

Standard Machinery Co., Providence, R. I.

Standard Railway Equipment Co. (Pneumatic), Nat'l Bank of Commerce bldg., St. Louis, Mo.

Standard Roller Bearing Co., (Thrust, etc.), 50th & Lancaster, Phila., Pa.

Timken Roller Bearing Axle Co. (Vehicle & Automobile), Canton, O.

U. S. Roller Bearing Co., 25 Broad, New York

Bearings (Self-Oiling)

Arguto Oilless Bearing Co., Wayne Junction, Phila., Pa.

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Dodge Mfg. Co., Mishawaka, Ind.

Hyatt Roller Bearing Co., Harrison, N. J.

Jones & Laughlin Steel Co., Pittsburgh, Pa.

Klein, Chas. C. (Step for Vertical Shafts, etc.), 2850 N Marshall, Philadelphia, Pa.

Medart Patent Pulley Co., 3500 DeKalh, St. Louis, Mo.

NORTH AMERICAN METALINE CO., ("Metaline"), 4 West av, Long Island City, N. Y. (See adv. index, end of book)

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

Woonsocket Machine & Press Co., Woonsocket, R. I.

Bearings (Side)

Camel Co. ("Hartman" Ball Bearing), Old Colony bldg., Chicago, Ill.

Cardwell Mfg. Co. ("Cardwell" Rocker), Monadnock bldg., Chicago, Ill.

Chicago Railway Equipment Co. ("Creco" Roller), 4054 Princeton av, Chicago, Ill.

Long & Stillman, 149 B'way, New York

Miner, W. H. Co., The Rookery, Chicago, Ill.

Perry Side Bearing Co. ("Perry" Roller, Automatic Frictionless), Monadnock blk., Chicago, Ill.; Factory: Joliet, Ill.

Simplex Railway Appliance Co. (Roller Side), Commercial Nat'l Bank bldg., Chicago, Ill.; Works: Hammond, Ill.

Bearings (Spiral)

Spiral Bearing & Supply Co., 74 B'way, New York

Bearings (Thrust)

Boston Gear Works (Thrust Collar), Norfolk Downs, Mass.

International Engineering Co. ("R. B. F."), 1779 B'way, New York

Standard Roller Bearing Co., 50th & Lancaster av, Phila., Pa.

Thropp, Jno. E. Sons Co., Trenton, N. J.

Beaters (Carpet)

Andrews Iron & Wire Works ("Androck"), Rockford, Ill.

Ely, T. J. Mfg. Co. ("Dandy"), Girard, Pa.

Holt-Lyon Co. (Wire), Tarrytown, N. Y.

Hutchins, C. K. Co. ("Niagara"), Buffalo, N. Y.

Beaters (Egg)

A. & J. Mfg. Co. ("A. & J." Egg Beater & Cream Whip), Binghamton, N. Y.

Browne, W. S. Mfg. Co. ("Cyclone"), Kingstons, N. Y.

DARBY, EDW. & SONS CO., 239 Arch, Philadelphia, Pa. (See adv. index, end of book)

Dover Stamping & Mfg. Co. ("New Dover" for Family Use & "Leviathan Dover" for Confectioners), Cambridge, Mass.

Dunlap, J. S., 39 W Randolph, Chicago, Ill.

Fries, Geo. Sons, 898 Filbert, Phila., Pa.

Hamblin & Russell Mfg. Co. ("Dover"), Worcester, Mass.

Hill, J. E. Co. ("Hill"), 27 School, Boston, Mass.

Holbrook Mfg. Co. ("Hil"), Attleboro, Mass.

Holt-Lyon Co. (Inc.), Tarrytown, N. Y.

Kilbourne Mfg. Co., Troy, N. Y.

Loh, F. W. Mfg. Co., Meriden, Conn.

Landers, Frary & Clark ("Dover"), New Britain, Conn.

Meyers, Fred. J. Mfg. Co., Hamilton, O.

National Mfg. Co., Worcester, Mass.

Norrish, Burnham & Co. (Inc.), Glen Rock, Pa.

Parker Wire Goods Co., Worcester, Mass.

Paxton Hardware Mfg. Co., Paxton, Ill.

Raymond Mfg. Co. (Ltd.), Corry, Pa.

Reid-Edelmuth Mfg. Co. ("Champion"), 1719 9th, Brooklyn, N. Y.

Sears, G. E. & Co., 2920 S. Park av, Chicago, Ill.

Standard Co., 29 Haverhill, Boston, Mass.

Star Specialty Co., Indianapolis, Ind.

Taplin Mfg. Co. ("Dover"), New Britain, Conn.

TURNER & SEYMOUR MFG. CO., ("Dover"), Torrington, Conn. (See adv. index, end of book)

Western Wire Goods Co. ("Buffalo," "Perfection"), Pearl c Terrace, Buffalo, N. Y.

Weston & Welis Mfg. Co., Fretz bldg., Phila., Pa.

Wire Goods Co. ("Dover"), Worcester, Mass.

Woods-Sherwood Co., Lowell, Mass.

Beds (Metal, for Railroads)

Adams & Westlake Co., Ontario, cor Franklin, Chicago, Ill.

Bedstead Mfrs. (Brass or Iron)

ARKANSAS.

FORT SMITH—Ward Furniture Mfg. Co. (Brass & Iron)

CALIFORNIA.

LOS ANGELES—Van Vorst & Berman (Brass & Iron)

SAN FRANCISCO—Bernhard Mattress Co. (Iron), 791 Mission

Merle, A. Co. (Brass & Iron), Bay & Stockton

CONNECTICUT.

DERBY—Whitcomb Metallic Bedstead Co. (Brass & Iron)

GEORGIA.

ATLANTA—Gholstein, Cunningham Spring Bed Co. (Iron)

MACON—Macon Spring Bed & Mattress Co. (Iron)

ILLINOIS.

BRADLEY—Turk, Jos. Mfg. Co. (Iron)

CHICAGO—Adams & Westlake Co. (Brass & Iron), Ontario & N. Franklin

American Metal Ware Co. (Brass), 87
Huron
Art Bedstead Co. (Brass & Iron), 37th &
Rockwell
Central Bedding Co. (Iron), 462 Wabash av
Davis, Horwich & Steinman (Iron), 2256
La Salle
Fett, John (Iron), 2715 S Halsted
Garvy Co. (Steel Folding), N 49th av, c
Bloomington rd
Hall Miller & Son (Brass & Iron), Taylor
& Rockwell
Horn Bros. Mfg. Co. (Iron), 281 W Superior
Kimball & Chappell Co. (Brass & Iron),
2834 Loomis
Simmons Mfg. Co. (Brass & Iron), 192
Michigan av
Union Wire Mattress Co. (Iron), Black-
hawk & Cherry
PEORIA—Peoria Lounge & Mattress Co.
(Iron), 301 N Water

INDIANA.

EVANSVILLE—Evansville Metal Bed Co.
(Brass & Iron)
INDIANAPOLIS—Indiana Brass & Iron Bed
Co. (Brass & Iron)
Laycock, T. B. Mfg. Co. (Brass & Iron)
MARION—Marion Iron & Brass Bed Co.
(Brass & Iron)
RICHMOND—Richmond - Indiana Mfg. Co.
(Brass & Iron)
SOUTH BEND—South Bend Iron Bed Co.

IOWA.

DUBUQUE—Dubuque Cabinet Makers' Ass'n
(Brass & Iron)

KENTUCKY.

LOUISVILLE—Belknap Hardware & Mfg. Co.
(Brass & Iron)

LOUISIANA.

NEW ORLEANS—Crescent Bed Co. (Ltd.)
(Brass), 400 Orange
Magee Mfg. Co. (Brass & Iron), Caliope
& South Race

MAINE.

BANGOR—Bangor Mattress Co. (Iron)

MARYLAND.

BALTIMORE—Fauldrath, U. H. & Bro. (Brass
& Iron), 219 N Howard
Foster Bros. Mfg. Co. (Brass & Iron), 320
N Holliday
Simmons Mfg. Co., 612 W Pratt
Southern Bedding Co., 629 W Pratt
Walpert, Fred & Co., N Gay
Weems, A. W. (Brass & Iron), 331 N
Howard

MASSACHUSETTS.

BOSTON—Bent, G. W. & Co. (Brass & Iron),
93 Causeway
Boston Metallic Bed Co. (Iron), 90 Canal
Merrimac Mattress Mfg. Co. (Iron), 129
Portland
Morris, Murch & Butler (Brass & Iron),
97 Summer
Nary, Frank E. (Brass), 51 Chardon
Richardson, Wright & Co. (Iron), 51 Char-
don
Standard Wire Mattress Co. (Brass &
Iron), 197 Portland
Whitcomb Metallic Bedstead Co. (Brass &
Iron), 78 Washington
HOLYOKE—Coburn Trolley Track Mfg. Co.
(Brass)
WESTBORO—Foster-Richardson Co. (Brass &
Iron)

MICHIGAN.

DETROIT—Jenks & Mnir Mfg. Co. (Brass &
Iron), 1441 Hastings

MINNESOTA.

MINNEAPOLIS—Gangelhoff Bros. (Brass &
Iron), 909 S 2d
Minneapolis Bedding Co. (Brass & Iron),
5th av & Division
Salisbury & Satterlee Co. (Iron)
RED WING—Red Wing Mfg. Co. (Brass &
Iron)
ST. PAUL—United States Bedding Co. (Iron)

MISSOURI.

KANSAS CITY—Brown Bed Mfg. Co. (Brass
& Iron)
ST. LOUIS—American Bed Co. (Brass & Iron),
18th to 19th & Park av
Foster Bros. Mfg. Co. (Iron), 1410 N 16th

Mellon & Storm Mfg. Co., 1621 N 10th
Smith & Davis Mfg. Co. (Iron), Locust &
20th
St. Louis Bed & Mfg. Co. (Brass & Iron),
408 N 4th

NEW JERSEY.

HOBOKEN—Oriental Metal Bed Co. (Brass
& Iron)
JERSEY CITY—Mersereau Metal Bed Co.,
(Brass & Iron), 292 Johnson av
New York Metallic Bedstead Co.

NEW YORK.

ALBANY—Hasselbarth, C. O., (Brass & Iron),
30 Hamilton
BUFFALO—Barcalo Mfg. Co., (Brass & Iron),
140 Kentucky
Hard Mfg. Co. (Iron), 117 Tonawanda
Hartman & Co. (Brass & Iron), 839 Main
LOCKPORT—Oliver Bros. Co., (Brass & Iron)
MECHANICSVILLE—Eckerson Bedding Co.,
(Iron)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Greenpoint Metallic Bed Co.
(Brass & Iron), 226 Franklin
Royal Metal Furniture Co. (Brass & Iron),
170 7th
Star Brass & Iron Bed Co., (Brass & Iron),
13 Montauk av

Boroughs of Manhattan & Bronx.

NEW YORK—American Couch Co. (Brass &
Iron), 141 7th av
Atlas Metal Bedstead Co. (Brass & Iron),
186 Lewis
Bronx Metal Bed Co., (Brass & Iron), 50
Orchard
Hall, Frank A. (Iron), 118 Baxter
Hoffman, Henry (Iron), 801 3d av
Hudson Metal Bed Co. (Brass & Iron),
447 E 120th
Knickerbocker Metallic Bed Co. (Brass &
Iron), 488 B'way
Judd, H. L. Co., (Brass & Iron), 87
Chambers
Manhattan Bedding Co., (Brass & Iron),
533 W 23d
National Brass Bed Co. (Brass), 414
Bleecker
New York Couch Bed Co., 534 W 30th
N. Y. Woven Wire Mattress Co. (Iron), 225
W. 28th
Ostermoor & Co., (Brass & Iron), 132
Bowery
Rogers, C. P. & Co., (Brass & Iron), 145
5th av
Schlesinger, W. & S. & Co. (Iron), 156
W 23d
ROME—Rome Metallic Bedstead Co. (Brass
& Iron)
TRUXTON—Bryant Furniture Co. (Iron)
UTICA—Foster Bros. Mfg. Co. (Iron)
Lortz, Teuscher & Co. (Iron)
WAVERLY—Merriam, F. W. (Iron)

NORTH CAROLINA.

ALBEMARLE—Albemarle Furniture & Mfg.
Co. (Iron)
WINSTON SALEM—Forsyth Iron Bed Co.
(Brass & Iron)

OHIO.

ASHLAND—Kauffman Mfg. Co. (Iron)
CINCINNATI—American Juvenile Bed Co.
Crown Mfg. Co. (Iron)
Hunt, M. A. & Co. (Brass & Iron), Demp-
sey & C. H. & D. R. R.
Nunner & Ashton (Brass & Iron), 210 E
Pearl
CLEVELAND—Cleveland Brass & Iron Co.
(Brass & Iron), W 65th & L. S. & M. S.
R. R.
Forest City Bedstead Co. (Iron), 1197 W
67th, N. W.
Van Dorn Iron Works Co. (Brass & Iron),
2685 E 79th
EATON—Ohio Iron & Brass Bed Co. (Brass
& Iron)

PENNSYLVANIA.

COLONA—Pittsburg Tube Co. (See Pittsburg)
CORY—Kurtz Brass Bed Co. (Ltd.)
HARRISBURG—Boli Bros. Mfg. Co. (Brass &
Iron)
PHILADELPHIA—Bernstein Mfg. Co. (Brass
& Iron), 3d & Allegheny av
Bunting, J. R. Bedding Co. (Iron), 234 S 2d
Dougherty, H. D. & Co. (Brass & Iron), 11
N 11th

Greater New York Metallic Bed Co., 251
S 2d
McMahon, Wm. H. (Brass & Iron), 244 S 2d
Philadelphia Metallic Bed Co., 1201 Wash-
ington av
Quaker City Metallic Bedstead Co., (Brass),
16th & Washington av
Rawson Mfg. Co. (Brass), 942 N 3d
Pittsburg Metal Bed Co., North Side
PITTSBURG—Pittsburg Tube Co., 324 4th av.
Mills, Colona, Pa

RHODE ISLAND.

PROVIDENCE—Brady, Jas. W. (Iron), 244
Weybosset

TENNESSEE.

CHATTANOOGA—Heron Iron Bedstead Co.

WISCONSIN.

FOND DU LAC—Winnebago Furniture Mfg.
Co. (Iron)
KENOSHA—Simmons Mfg. Co. (Brass & Iron)
MARSHFIELD—Marshfield Bedding Co. (Iron)
MILWAUKEE—Western Metal Bed Co. (Brass
& Iron), Dover pl & West

Bee Keepers' Supplies

Dadant & Sons, Hamilton, Ill.
Falconer, Jas. T. & Co., Jamestown, N. Y.
Marshfield Mfg. Co., Marshfield, Wis.
Lewis, G. B. Co., Watertown, Wis.
Root, A. I. Co., Medina, O.

Beeswax

Bowdlear, W. H. Co., Boston, Mass.
Bromund, E. A., 97 Reade, New York
McKesson & Robbins, 91 Fulton, New York
National Aniline & Chemical Co., 100 William,
New York
Scheel, Wm. H., 159 Maiden la., New York

Beet Sugar Plant Construction

Dyer Co. (Complete Plants), Cleveland, O.
Hopke, Theo. (Complete Plants), Madison, Wis.
Kilby Mfg. Co., Cleveland, O.
Oxnard Construction Co., 32 Nassau, New York

***Bell Cords & Couplings**

(See also Cords, Trolley, Etc.)

SAMSON CORDAGE WORKS, 88
Broad, Boston, Mass. (See adv. index, end
of book)
SILVER LAKE CO., 78 Chauncy,
Boston, Mass. (See adv. index, end of book)
TUCKER & CARTER ROPE CO.
(Wire Center Bell Cord), 76th S & 167
Maiden la., New York. (See adv. index,
end of book)

Bell Founders

American Bell & Foundry Co. (Cast Steel),
Northville, Mich.
Bay State Brass Foundry, 155 A, Boston,
Mass.
Bell, C. S. Co. (Steel Alloy, Farm, etc.),
Hillsboro, O.
Buckeye Bell & Brass Foundry, 428 E 2d,
Cincinnati, O.
Chaplin-Fulton Mfg. Co., 28 Penn av, Pitts-
burg, Pa.
Cincinnati Bell Foundry Co., Spring Grove av
& Terrace pl, Cincinnati, O.
Fuller, Frederic, 604 S Main, Providence, R. I.
Garratt, W. T. & Co., 138 Fremont, San
Francisco, Cal.
Henry-Bonnard Bronze Co., 5 E 42d, New York;
Works: Mount Vernon, N. Y.
Kingwell, Vincent, 1038 Mission, San Fran-
cisco, Cal.
McShane Bell Foundry Co., Holliday & Cen-
tre, Baltimore, Md.
Meneely Bell Co., Troy, N. Y.
Meneely & Co., Watervliet, N. Y.
Mousley, Chas. & Sons, 453 N 12th, Phila-
delphia, Pa.
New Departure Mfg. Co. (Gong, etc.), Bristol,
Conn.
Ross-Meehan Foundry Co., Chattanooga, Tenn.
St. Louis Bell Foundry, 2735 Lyon, St. Louis,
Mo.
Stuckstede, Hy. Bell Foundry Co., 1312 S 2d,
St. Louis, Mo.
Sweeney, J. & Barrett, 3 Dutch, New York
Van Duzen, E. W. Co., 428 E 2d, Cincin-
nati, O.
Williams, E. A. & Son, Jersey City, N. J.

Bell Ringers

(See Locomotive Bell Ringers)

Bellows (Blacksmiths', Molders', etc.)

BEGGS, JAS. & CO., 109 Liberty, New York. (See adv. index, end of book)
Brand, S. H. & Co., 99 W Monroe, Chicago, Ill.
California Bellows Works, 79 Federal, San Francisco, Cal.
Charlotte Bellows Works, Charlotte, N. C.
Christen, F. & Sons, Dock & Main, St. Louis, Mo.
Dobson, Wm. (Molders' Calfskin), Canastota, N. Y.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Keese, Chas. H., 4 Gold, New York
Michales, J. Son & Co., 109 Liberty, New York
OSBORN MFG. CO. (Molders' Only), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
Paro, Edw., 3724 W 62d, Chicago, Ill.
Scott, Geo. M., 436 Johnson, Chicago, Ill.
Woodason, Thomas (Blacksmiths' & Molders', etc.), 2900 D, Phila., Pa.

*Bellows (Brass & Wood)

JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

Bells (Altar)

Starr Bros. Bell Co., East Hampton, Conn.

Bells (Automobile & Bicycle)

(See also Bells, Electric; also Bells & Gongs, Car, Etc.)

Bevin Bros. Mfg. Co., East Hampton, Conn.
Gong Bell Mfg. Co., East Hampton, Conn.
Graham Mfg. Co. (Bicycle), Derby, Conn.
Hardware & Woodenware Mfg. Co., 826 B'way, New York
Mossberg, Frank Co. (Also Carriage), Attleboro, Mass.
New Departure Mfg. Co., Bristol, Conn.
Starr Bros. Bell Co., East Hampton, Conn.

Bells (Chime)

Durfee, Walter H. & Co. (Tubular Tower), 151 Pond, Providence, R. I.
Liberty Bell Co. (Liberty Auto Chimes), Bristol, Conn.
McShane Bell Foundry Co., Baltimore, Md.
Meneely Bell Co., Troy, N. Y., & 177 B'way, New York
Meneely & Co., Watervliet & Troy, N. Y.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.

Bells (Church)

American Bell & Foundry Co., Northville, Mich.
Bell, C. S. Co., Hillsboro, O.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Blymyer Iron Works Co., Spring Grove av, & Terrace pl, Cincinnati, O.
Chaplin-Fulton Mfg. Co., 28 Penn av, Pittsburgh, Pa.
Cincinnati Bell Foundry Co., Spring Grove av & Terrace pl., Cincinnati, O.
Durfee, Walter T. & Co. (For Churches, Tower Clocks, Organ Chimes, etc.), 151 Pond, Providence, R. I.
Foot, J. B. Foundry Co., Fredericktown, O.
Fuller, Frederic, Providence, R. I.
Garratt, W. T. & Co. (Inc.), 142 Fremont, San Francisco, Cal.
McShane Bell Foundry Co., Baltimore, Md.
Meneely Bell Co., 22 River, Troy, N. Y., & 177 B'way, New York
Meneely & Co., Watervliet, & Troy, N. Y.
Rumsey & Co. (Ltd.) (Steel), Seneca Falls, N. Y.
Stuckstede, Henry Bell Foundry Co., 1312 2d, St. Louis, Mo.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.
Williams, E. A. & Son, Jersey City, N. J.

Bells (Cow)

Blum Mfg. Co., Collinsville, Ill.
Bevin Bros. Mfg. Co., East Hampton, Conn.
East Hampton Bell Co., East Hampton, Conn.
Hill, N. N. Brass Co., East Hampton, Conn.
Starr Bros. Bell Co., East Hampton, Conn.

Bells (Door & House)

Arcade Mfg. Co., Freeport, Ill.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Hardware & Woodenware Mfg. Co., 826 B'way, New York
Hill, N. N. Brass Co., East Hampton, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Starr Bros. Bell Co. (Gong, Alarm, Rotary Door, Call, etc.), East Hampton, Conn.

Bells (Electric)

Ansonia Electrical Co. ("Eureka," "Wizard"), Ansonia, Conn.
Boston Electric Co., 29 Harrison av, Boston, Mass.
BUNNELL, J. H. & CO. ("Becko"), Park pl & Church, New York. (See adv. index, end of book)
Bryant Zinc Co., 158 W Van Buren, Chicago, Ill.
Cory, Chas. & Son (Call), 286 Spring, New York
Edwards & Co. ("Lungen," "Vigilant," "Recti"), 140th & Exterior, New York
Electric Goods Mfg. Co. ("Victor," "Dandy," "Tyrolcan"), Boston, Mass.
Ericsson, L. M. Tel. Mfg. Co., Buffalo, N. Y.
Heath Electric Co., Detroit, Mich.
Holtzer-Cabot Electric Co. ("Berlin," "Hub-Dome"), Brookline, Mass.
Keil, Francis & Son ("Reliance," "Ampro"), 403 E 163d, New York
Manhattan Electrical Supply Co. ("Nonpareil," "Utility," "Crescent," "Imperial," "Crescendo," "Monarch," "Monitor"), 17 Park pl, New York
Menominee Elec. Mfg. Co., Menominee, Mich.
Ostrander, W. R. & Co., 22 Dey, New York
P. R. Mfg. Co. ("Rex," "Marlo," "X X X," "Eclipse," "Ekla," "Straightline"), Detroit, Mich.
Partrick, Carter & Wilkins Co., 22d & Wood, Phila., Pa.
Pearce, Fred'k Co., 18 Rose, New York
Railroad Supply Co., 215 Dearborn, Chicago, Ill.
Reading Hardware Co. (Ring & Rotary Door), Reading, Pa.
Rolfe Electric Co. ("Schwarze"), Rochester, N. Y.
Russell Electric Co. ("Electric Whistle," "Freco"), Danbury, Conn.
Schwarze Electric Co., Adrian, Mich.
Stanley & Patterson ("Faraday," "Competition," "Columbus," "Globe," "Liberty"), 23 Murray, New York
Starr Bros. Bell Co. (Mechanical), East Hampton, Conn.
Western Electric Co. ("Hawthorne," Relay), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm, H., 70 Frost, Brooklyn, N. Y.

Bells (Engine)

Bevin Bros. Mfg. Co., East Hampton, Conn.
Cory, Chas. & Son, 286 Spring, New York
Hardware & Woodenware Mfg. Co., 826 B'way, New York
New Departure Mfg. Co., Bristol, Conn.
Rumsey & Co., Ltd. (Inc.), Seneca Falls, N. Y.
Starr Bros. Bell Co. (Locomotive Gongs, etc.), East Hampton, Conn.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.
Williams, E. A. & Son, Jersey City, N. J.

Bells (Extension Ringing)

(See Bells, Telephone)

Bells (Farm)

American Bell & Foundry Co., Northville, Mich.
Bell, C. S. Co., Hillsboro, O.
Comstock, Geo. S., Mechanicsburg, Pa.
Hill, N. N. Brass Co., East Hampton, Conn.
Lehr Agricultural Co., Fremont, O.
Messinger Mfg. Co., Tatamy, Pa.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Bells (Fog)

Bevin Bros. Mfg. Co., East Hampton, Conn.
Starr Bros. Bell Co. (Binnacle & Signal), East Hampton, Conn.
Williams, E. A. & Son, Jersey City, N. J.

Bells (Hand)

Starr Bros. Bell Co. (Auctioneers, School, Tea, etc.), East Hampton, Conn.

Bells (Highway Crossing)

(See Signals, Railway Crossing)

Bells (House)

(See Bells, Door & House)

Bells (Locomotive)

(See Bells, Engine)

Bells (Magneto)

(See Bells, Telephone)

*Bells (Malleable Bronze for Locomotives)

LAWRENCEVILLE BRONZE CO., 31st & Penn av, Pittsburgh, Pa. (See adv. index, end of book)

Bells (School, Fire & Factory)

(See Bells, Church)

Bells (Sleigh)

American Ring Co., Waterbury, Conn.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Hill, N. N. Brass Co., East Hampton, Conn.
Kirby Mfg. Co., Middletown, Conn.
Starr Bros. Bell Co. (Also Body Straps, etc.), East Hampton, Conn.
Swedish Sleigh Bell Mfg. Co., Burlington, Ia.

Bells (Telephone)

American Electric Telephone Co., 64th & State, Chicago, Ill.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Bridgeport Brass Co. ("Magneto"), Bridgeport, Conn., & 19 Murray, New York
Chicago Telephone Supply Co., Elkhart, Ind.
Couch & Seeley Co. ("Magneto"), 10 Thacher, Boston, Mass.
Electric Mfg. & Equipment Co. (Extension Ringing), Atlanta, Ga.
Farr Telephone & Construction Supply Co., 118 W Jackson boul, Chicago, Ill.
Garton-Daniels Co. (For Extension Ringing), Keokuk, Iowa
Hardware & Woodenware Mfg. Co., 826 B'way, New York
International Telephone Mfg. Co. c Harrison & Clinton, Chicago, Ill.
Holtzer-Cabot Electric Co., Brookline, Mass.
Ladd, W. C., Bristol, Conn.
Manhattan Electrical Supply Co., 17 Park pl, New York
Menominee Electric Mfg. Co., Menominee, Mich.
North Electric Co., 408 St. Clair, Cleveland, O.
Partrick, Carter & Wilkins, 1231 Callowhill, Philadelphia, Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Schwarze Electric Co. ("Schwarze," Loud Ringing Magnets Extension), Adrian, Mich.
Sumpter Telephone Mfg. Co., Sumpter, S. C.
Utica Fire Alarm Telegraph Co., Utica, N. Y.
Western Telephone Mfg. Co., 42 W Jackson boul, Chicago, Ill.
Vote-Berger Co. ("Little Gem"), La Crosse, Wis.
Williams, E. G. Electric Works, 145 Quincy, Cleveland, O.

Bells (Tubular)

Durfee, Walter H. Co. (Tubular, Church Organ), 151 Pond, Providence, R. I.
National Tube Co. ("Shelby" Seamless Steel Tubing, Locomotive, Fire Alarm, Church, Marine, Service, etc.), Pittsburgh, Pa.

Bells & Gongs (Car, Etc.)

Adams & Westlake Co., Ontario c N Franklin, Chicago, Ill.
American Foundry & Mfg. Co. (Bronze), 11th & Herbert, St. Louis, Mo.
American Tube & Stamping Co., Bridgeport, Conn.
Bevin Bros. Mfg. Co., East Hampton, Conn.
Brill, J. G. Co. ("Dedenda," Platform Gong, "Retriever," Signal Bell), 62d & Woodland av, Phila., Pa.
Dayton Mfg. Co. ("Dayton," Gong), Dayton, O.
Electric Service Supply Co. ("Keystone," Pneumatic Gong), 1020 Filbert, Phila., Pa.
Gong Bell Co., East Hampton, Conn.
Hardware & Woodenware Mfg. Co., 826 B'way, New York

National Tube Co. ("Shelby," Seamless Steel Tubing, are Formed Not Cast), Pittsburgh, Pa.
 New Departure Mfg. Co., Bristol, Conn.
 Ohio Brass Co., Mansfield, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pittsburg Steel Hollow Ware Co. (Rolled Steel), Reiter, G. C., Canton, O.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 St. Louis Car Co. ("St. Louis," Bells & Gongs Made of Rolled Steel), St. Louis, Mo.
 Starr Bros. Bell Co. ("Bartons"), East Hampton, Conn.
 Wall, P. Mfg. Supply Co., Pittsburg, Pa.
 Wallace Supply Co. (Steel Gongs), 23 S Jefferson, Chicago, Ill.
 William, E. A. & Son, Jersey City, N. J.

Bells & Gongs (Unmounted)

American Foundry & Mfg. Co., 11th & Herbert, St. Louis, Mo.
 American Tube & Stamping Co., Bridgeport, Conn.
 Bevin Bros. Mfg. Co., East Hampton, Conn.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
 East Hampton Bell Co., East Hampton, Conn.
 Hardware & Woodenware Mfg. Co., 826 B'way, New York
 New Departure Mfg. Co., Bristol, Conn.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
PRESSED STEEL TANK CO. (Pressed Steel), Milwaukee, Wis. (See adv. index, end of book)
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Waterbury Mfg. Co., Waterbury, Conn.

Belt Awls

(See Awls, Belt, Etc.)

Belt Cement

Akron Belting Co., Akron, O.
 Bradford Belting Co., 2d & Walnut, Cincinnati, O.
 Chicago Belting Co., 12 S Green, Chicago, Ill.
 Cook, Barron C., Charlotte, N. C.
 Graton & Knight Mfg. Co., Worcester, Mass.
HUDSON BELTING CO. ("American"), Also "Mermaid" Waterproof, 3 Eaton pl, Worcester, Mass. (See adv. index, end of book)
 Jewell Belt Hook Co., Hartford, Conn.
 Ladew, E. R. (Est. of) ("Hoyt's"), 200 William, New York
 New York Leather Belting Co. ("Victor"), 51 Beekman, New York
 Nott, W. S. Co. ("Diamond"), Minneapolis, Minn.
 Page Belting Co., Concord, N. H.
 Russia Cement Co., Gloucester, Mass.
 Schieren, Chas. A. & Co., 30 Ferry, New York
 Shultz Belting Co., 402 Barton, St. Louis, Mo.

Belt Dressing

Acme Supply Co. ("Acme"), 717 Main, Cincinnati, O.
 Akron Belting Co. ("Electric"), Akron, O.
 Allen, W. D. Mfg. Co. ("Ajax," "Red Cross"), 151 Lake, Chicago, Ill.
 American Belting Co., Youngstown, O.
 American Oil Co. ("A. O. C."), Providence, R. I.
 American Steam Packing Co. ("American"), 51 High, Boston, Mass.
 Barker Bros. ("Keystone"), Norristown, Pa.
 Belden, A. G. & Co. ("Pynolum"), 145 Maiden la., New York
 Belt Force Co., Knoxville, Tenn.
 Beltine Chemical & Mfg. Co., N Sangamon & W Kinzie, Chicago, Ill.
 Binghamton Boiler Compound Co. ("Pyramid"), Binghamton, N. Y.
 Black Diamond Mfg. Co. ("Black Diamond"), 1236 Richmond, Cincinnati, O.
 Bradford Belting Co. ("Monarch"), 38 Dey, New York, & 2d & Walnut, Cincinnati, O.
 Buffalo Specialty Co. ("Electric Success"), 375 Ellicott, Buffalo, N. Y.
 Bulls Head Oil Works ("Bulls Head"), San Francisco, Cal.
 Callahan, Geo. & Co. ("Anti-Slip"), 129 Front, New York
 Carbono Specialty Mfg. Co., 1913 Lexington av, New York
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Carton Belting Co., Boston, Mass.
 Chesapeake Belting Co. ("Star"), Baltimore, Md.

Chesterton, A. W. & Co. ("Excelsior"), 64 India, Boston, Mass.
 Chicago Belting Co., 12 S Green, Chicago, Ill.
 Cinceras Specialty Mfg. Co. (Brush Bar), Buffalo, N. Y.
 Climax Refining Co., Williamson bldg, Cleveland, O.
 Cling Surface Co., 1032 Niagara av, Buffalo, N. Y.
 Columbia Mfg. Co., Camden, N. J.
 Consumers Rubber Co. ("Hosmer's"), 1407 W 6th, N W, Cleveland, O.
 Corliss Chemical Co., 409 S 12th, St. Louis, Mo.
 Cowles & Co., 231 Fulton, New York
 Grandall Packing Co., Palmyra, N. Y.
 Crescent Belt Fastener Co. ("Handy Bar"), 143 E 23d, New York
 Crown Woven Wire Brush Co. (For Round & Sewing Machine Belts), Salem, Mass.
DIXON, JOS. CRUCIBLE CO. ("Dixon's") Solid & for Traction, Jersey City, N. J. (See adv. index & branch offices, end of book)
 Eagle Oil & Supply Co. ("Eagleine Holdfast"), 104 Broad, Boston, Mass.
 Estweiler, Wm. (Electric), 230 N 3d, Phila., Pa.
 Franklin Co., Lincoln, N. J.
 Gallaway, G. W., 322 Pearl, New York
 Gandy Belting Co. ("Gandy"), Baltimore, Md.
 Garlock Packing Co. ("Garlock"), Palmyra, N. Y.
 Garnet Co. (Liquid & Bars), Allentown, Pa.
 Gold, Walter C. ("The Page"), 235 Race, Phila., Pa.
 Goodyear Rubber Hose & Packing Co. ("Vulcan"), 221 Chestnut, Phila., Pa.
 Graton & Knight Mfg. Co., Worcester, Mass.
 Hartfelder-Garbutt Co. ("Strous" Liquid), Savannah, Ga.
 Hinds & Coon ("Hug-It"), 128 Pearl, Boston, Mass.
 Houghton, E. F. & Co. ("The Vim," Adhesive), 240 W Somerset, Phila., Pa.
HUDSON BELTING CO. (Hudson Bar "Number One"), Worcester, Mass. (See adv. index, end of book)
 Imperial Leather Preserver Mfg. Co. ("Leatherine" Filler & Preserver), 216 Chancelor, Phila., Pa.
 Ironsides Co., The Wyandotte, Columbus, O.
 Jewell Belt Hook Co., Hartford, Conn.
 Keystone Lubricating Co. ("Keystone," Grease), 20th & Allegheny av, Phila., Pa.
 Kidder Supply Co., 29 Pearl, Boston, Mass.
 Leather Preserver Mfg. Co., 27 W Monroe, Chicago, Ill.
 Little, O. C. Pulley Coating Co. (Softener and Preserver for Rubber & Canvas Belts), Menasha, Wis.
 Loeb Bros. Leather Belting Co., 29 Ferry, New York
 Main Belting Co. ("Leviathan"), 1219 Carpenter, Phila., Pa.
 Montgomery Bros. ("Paragon"), 48 N Front, Phila., Pa.
 Munson, Chas. Belting Co. ("Famons"), 88 Franklin, Chicago, Ill.
 Muzzy-Lyon Co., Detroit, Mich.
 New York Leather Belting Co., 51 Beekman, New York
 New York Mfg. & Supply Co., 152 South, New York
 Nott, W. S. Co. ("Old Hickory"), Minneapolis, Minn.
 Page Belting Co. ("Crown," for Leather Belts), Concord, N. H., & 31 Pearl, Boston, Mass.
 Palmer, N. & Co. ("Charter Oak"), Bridgeport, Conn.
 Pechin, Jno. W. ("Jim Dandy"), 31 S 3d, Philadelphia, Pa.
 Phoenix Oil Co. ("Green Seal"), Cleveland, O.
PITTSBURGH GAGE & SUPPLY CO. ("Fort Duquesne"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
 Piomo Specialty Mfg. Co. ("Whitmore"), Cleveland, O.
 Post, E. L. & Co., 50 Cliff, New York
 Providence Oil Works, Providence, R. I.
 Rhoads, J. B. & Son, 239 Market, Phila., Pa.
ROSSENDALE-REDDAWAY BELTING & HOSE CO. ("Camel"), Newark, N. J. (See adv. index, end of book)
 Sawyer Belting Co. ("Flexo" Tractive Liquid), Cleveland, O.
 Schieren, Chas. A. & Co. ("Leatherine," "Electric," "Flyfoot"), 30 Ferry, New York
 Shackley, W. T. & Son (Friction), 49 High, Boston, Mass.
 Shultz Belting Co., 402 Barton, St. Louis, Mo.
 Sonneborn, L. Sons (Inc.) ("Amalia" Grip Non-Slip Stick & Syrup for All Kinds of Belts), 262 Pearl, New York
 Southwick, Geo. W. Co. (Inc.) ("Polar"), 90 Centre, New York

Star Mfg Co., Stamford, Conn.
 Stephenson Mfg. Co. (Bar), Albany, N. Y.
 Superior Chemical Mfg. Co. ("Superior"), Grand Rapids, Mich.
 Tallamania Co., North Tonawanda, N. Y.
 Tolma, R. B. & Co., Seattle, Wash.
 Viscol Co., Cambridge, Mass.
 Walton, F. S. Co. (Oxolox), 319 Walnut, Philadelphia, Pa.
 Warren Co., 1960 Orleans, Chicago, Ill.
 Watt's, Jno. M. Sons ("Nonpariel"), 232 N 3d, Phila., Pa.
 Waterproof Paint Co., Watertown, Mass.
 White & Bagley Co. ("Neverslip"), Worcester, Mass.
 Whitlock Mfg. Co., 1363 W 117th, N. W., Cleveland, O.
 Wilhelm, A. Co., Reading, Pa.
 Wing, J. T. & Co., 19 Woodward av, Detroit, Mich.
 Winn, Wm. R. ("Winn"), 143 Maiden Lane, New York
 Wolff, Norbert & Son ("Wolff"), 470 Greenwich, New York
 World Refining Co., Easton, Pa.
 Zurn, O. F. Co. ("Royal," "Peerless"), Broad & Lehigh, Phila., Pa.

Belt Fasteners

Angell Belt Hook Co. ("The Wilson" Hooks), Providence, R. I.
BRISTOL CO. ("Bristol's" Steel Belt Lacing), Waterbury, Conn. (See adv. index & branch offices, end of book)
 Buffalo Belting Works, 18 Ellicott, Buffalo, N. Y.
 Buffalo Specialty Co. ("Buffalo"), 375 Ellicott, Buffalo, N. Y.
 Crown Woven Wire Brush Co. (For Round & Sewing Machine Belts), Salem, Mass.
 Columbia Novelty Mfg. Co., 1431 N 8th, St. Louis, Mo.
 Crescent Belt Fastener Co. ("Crescent"), 143 E 23d, New York
 Edwards, H. D. & Co. ("Smith's"), Detroit, Mich.
 Greene, Tweed & Co. ("The Jones" & "Jackson's" Improved), 109 Duane, New York
 Hayden, J. M. & Co. (Wire), Grand Rapids, Mich.
 Hudson Belt Fastener Co. ("Hudson"), 136 Liberty, New York
 Jenckes, E. Mfg. Co. ("Hicks"), Pawtucket, R. I.
 Jewell Belt Hook Co. (Potter), Hartford, Conn.
 Jones, H. H. (Hook), Lancaster, N. H.
 Kenehan Steel Belt Fasteners Co., 1252 W 3d, N W, Cleveland, O.
 Kerr & Co. (Metallic), 109 Liberty, New York
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
 Page Belting Co., Concord, N. H.
 Pickering, R. S. (Or Belt Hooks), Sharon Hill, Pa.
 Pratt, Wm. E. Mfg. Co. ("The Chicago" Wire), 91 Lake, Chicago, Ill.
ROSSENDALE-REDDAWAY BELTING HOSE CO. ("Jackson's"), Newark, N. J. (See adv. index, end of book)
 Smith, F. P. & Co. ("Smith's" Sewing Machine Belt Hooks, etc.), Sharon Hill, Pa.
 Southwick, Geo. W. Co. (Inc.), 90 Centre, New York
 Star Mfg. Co., Stamford, Conn.
 Talcott, W. O. ("Wilson's" & Combination Clinching & "Acme"), Providence, R. I.
 Thacher Belting Hook Co. ("Thacher"), 321 Frankfort av, Cleveland, O.
 Tostevin & Cottle Mfg. Co. ("Toscot" Flat Flexible Metallic Belt Coupling), 635 Kent av, Brooklyn, N. Y.
 Upson Nut Co., Unionville, Conn., & Cleveland, O.
 Voorhees Rubber Mfg. Co. (Plate Belt Fasteners or Hooks), Jersey City, N. J.
 Webb Hinge Belt Hook Co., Boonton, N. J.
 Western Rawhide & Belting Co. ("Superior" Belt Hook for Round or Flat Belts), Milwaukee, Wis.

Wall, P. Mfg. Supply Co. ("Thachers"), Allegheny, Pa.

Belt Filling

Garnet Co. (& Preserver), Allentown, Pa.
 Hendee Wire Brush Co., 319 Milwaukee, Milwaukee, Wis.
 Peerless Lubricant Mfg. Co., 107 Liberty, New York

Belt Holders

Mason Regulator Co., Boston, Mass.

Belt Hooks

(See Belt Fasteners)

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Belt Lacing

Akron Belting Co. (Wire & Rawhide), Akron, O.
Allen, W. D. Mfg. Co. ("McCauley" Wire), 151
Lake, Chicago, Ill.

American Belting Co., Youngstown, O.
Anstedt, C. Leather Co., Milwaukee, Wis.

Barnes, Henry K. ("Crown" Rawhide & "Blue-
skin" Mineral Tanned), 104 Franklin, Bos-
ton, Mass.

Bay State Belting Co. (Leather), 43 High, Bos-
ton, Mass.

BRISTOL CO. ("Bristol's" Steel),
Waterbury, Conn. (See adv. index & branch
offices, end of book)

Brown Bros. Co., 62 Ex. pl., Providence, R. I.
Chicago Raw Hide Mfg. Co. (Rawhide), 75 E
Ohio, Chicago, Ill.

Columbia Novelty Mfg. Co. ("Star" Steel),
St. Louis, Mo.

Coupe, Wm. & Co. ("Excelsior" Raw Hide &
Oak Tanned), South Attleboro, Mass.

Couse & Bolten, Newark, N. J.
De Forge Belting Co., Newark, N. J.

Flexible Steel Lacing Co. (Flexible Steel Lac-
ing), 71 W Jackson boul., Chicago, Ill.

Gay, Fred E. (Rawhide Side & Cut Lace
Leather), Pawtucket, R. I.

Graton & Knight Mfg. Co., Worcester, Mass.
Hartmann E. Hide & Leather Co., 1905 Shen-
andoah av., St. Louis, Mo.

Hayden, J. M. & Co. (Wire), Grand Rapids,
Mich.

Helvetia Lacing Co., Lancaster, Pa.
Hercules Mfg. Co., 4328 Greenwood av., Chi-
cago, Ill.

HUDSON BELTING CO. (Lace
Leather), Worcester, Mass. (See adv. in-
dex, end of book)

Hudson Belt Fastener Co. ("Hudson" Wire,
"Perfection," "O. K."), 136 Liberty, New
York

Jewell Belt Hook Co. (Metallic Tipped), Hart-
ford, Conn.

Kayser Raw Hide Co. (Leather), 3918 N B'way,
St. Louis, Mo.

Kelton-Bruce Mfg. Co. (Rawhide & Indian Tan-
ned Lace Leather), Salem, Mass.

Kerr & Co. (Metallic), 109 Liberty, New York
Ladew, Edward R. (Est. of) (Leather), 200
William, New York

Loeb Bros. Leather Belting Co., 29 Ferry, New
York

Malin & Co. (Composition Wire), 641 Long av.,
N. W., Cleveland, O.

Missouri Belting Co. ("Giant" Rawhide), St.
Louis, Mo.

National Leather Mfg. Co. ("Wolverine" Raw-
hide), Niles, Mich.

New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

New York Leather Belting Co. (Leather), 51
Beekman, New York

North Chelmsford Machine & Supply Co., North
Chelmsford, Mass.

Norwich Belt Mfg. Co. ("Defiance" Rawhide,
etc.), Norwich, Conn.

Page Belting Co. ("Hercules"), Concord, N. H.
Patterson Tool & Supply Co. ("Peerless" Wire),
Dayton, O.

QURIDE CO. ("Quride"), Syracuse,
N. Y. (See adv. index, end of book)

Schleren, Chas. A. & Co., 30 Ferry, New York
Shultz Belting Co. (Rawhide Lace Leather), 402
Barton, St. Louis, Mo.

Southwick, Geo. W. Co. (Inc.) (Wire), 149 Cen-
ter, New York

Star Mfg. Co. (Composition Wire), Stamford,
Conn.

Summer, Wm. Belting Co. (Leather), Tolland,
Conn.

Upson Nut Co. (Metallic), Unionville, Conn., &
Cleveland, O.

Walker, Chas. W. (Lace Leather), Newark,
N. J.

Weatherhead, Thompson & Co. (Rawhide),
Pawtucket, R. I.

Western Rawhide & Belting Co. (Rawhide),
Milwaukee, Wis.

Williams, I. B. & Sons (Rawhide & Tanned),
Dover, N. H., & 17 W Lake, Chicago, Ill.

Belt Lacing Machines

(See Machinery)

Belt Shifters

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See adv.
index, end of book)

Builders' Iron Foundry, Providence, R. I.

Chander & Farquhar Co. ("Pratt"), 36 Federal,
Boston, Mass.

Cresson, Geo. V. Co., Allegheny av., W of 17th,
Phila., Pa.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Foster Engineering Co., Newark, N. J.

L. & D. Co. ("Pullet"), 88 Broad, Boston,
Mass.

Mason Regulator Co., 158 Summer, Boston,
Mass.

Mossberg Wrench Co. ("Multi-Pull"), Central
Falls, R. I.

Belt Stretching Machines

(See Machinery)

Belt Studs

Buffalo Specialty Co. ("Twist Brand," Cold
Rolled Steel), Buffalo, N. Y.

Belt Tighteners

Adams Company, Dubuque, Ia.

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

American Tool & Machine Co., 109 Beach, Bos-
ton, Mass.

Billings & Spencer Co., Hartford, Conn.

BROWN, A. & F. CO., 25 Dey, New
York. Works: Elizabethport, N. J. (See adv.
index, end of book)

Burlingame A. Co., Worcester, Mass.

Caldwell, H. W. & Son Co., 17th & Western
av., Chicago, Ill.

Cresson, Geo. V. Co., Allegheny av., W of 17th,
Phila., Pa.

Davis, F. M. Iron Works Co., 8th & Larimer,
Denver, Colo.

Diamond Iron Works, Minneapolis, Minn.

Dodge Mfg. Co., Mishawaka, Ind.

Falls Rivet & Machine Co., Cuyahoga Falls,
O., & 208 Fulton, New York

Filer & Stowell Co., Milwaukee, Wis.

Goodell-Pratt Co. ("Farley's"), Greenfield,
Mass.

Great Western Mfg. Co., Leavenworth, Kan.

Hill Clutch Co., ft 58th, N W, Cleveland, O.

Hoggson & Pettis Mfg. Co. ("Porter"), New
Haven, Conn.

Hunt, Rodney Machine Co., Orange, Mass.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Lane Mfg. Co. (Swing & Slide), Montpelier,
Vt.

Lane & Bodley Co., Cincinnati, O.

Link Belt Co., W 39th & Stewart av., Chicago,
Ill., & 299 B'way, New York

Marseilles Mfg. Co., Marseilles, Ill.

Medart Patent Pulley Co. (Various Kinds),
3500 DeKalb, St. Louis, Mo.

Memphis Machine Works, Memphis, Tenn.

Midland Foundry & Machine Works Co., Denver,
Colo.

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)

Nordyke & Marmon Co., 1101 Morris, Indian-
apolis, Ind.

Plamondon, A. Mfg. Co., 57 S Clinton, Chi-
cago, Ill.

Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Philadelphia, Pa.

Union Iron Works Co., San Francisco, Cal.

U. S. Machine Co., Williamsport, Pa.

Woods, T. B. Sons Co., Chambersburg, Pa.

Belt Webbing

Buffalo Weaving & Belting Co., Buffalo, N. Y.

Hope Webbing Co., Providence, R. I.

Belting Mfrs.

NOTE—The Various Kinds of Belting Manu-
factured by the Firms listed under this head-
ing are indicated in the parentheses follow-
ing their names.

(For Dealers in Belting, see Mill & Factory
Supplies)

ALABAMA.

MOBILE—BOSTON BELTING CO.
(Turner Supply Co., Rep.), 23 South Com-
merce. (See adv. index, end of book)

CALIFORNIA.

LOS ANGELES—BOSTON BELTING CO.
(Warren & Bailey Mfg. Co., Rep.) (See
adv. index, end of book)

SAN FRANCISCO—BOSTON BELTING CO.
(Simonds Mfg. Co., Rep.) (See adv. index,
end of book)

Bowers Rubber Works (Rubber), 57 Sacra-
mento

California Belting & Supply Co. (Leather),
1425 Mission

Cook, H. N. Belting Co. (Leather)

Degen, L. P. Belting Co. (Leather)

Goodyear Rubber Co. (of New York City),
573 Market

Gorham Rubber Co. (Rubber), San Fran-
cisco, Cal.

Heins, Alex. Belting Co. (Leather & Raw-
hide), 2413 Harrison

Revere Rubber Co. (of Boston, Mass.),
530 Mission

BICKFORD & FRANCIS BELTING CO.

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"Hudson's Bar" Belt Dressing.

Rossendale=Reddaway Belting & Hose Co.

NEWARK, N. J.



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LINEN FIRE HOSE, for Fire Protection.

STITCHED CANVAS BELTING, for Conveying.
CAMEL BRAKE BANDING, for Automobiles.

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BRIDGEPORT—Palmer, N. & Co. ("Charter Oak," Short Lap Leather)
 HARTFORD—Jewell Belt Hook Co. (Leather)
 MIDDLETOWN—Russell Mfg. Co. (Solid Cotton)
 NEW HAVEN—Coe & Brown (Leather), 204 George
 NORWICH—Norwich Belt Mfg. Co. (Oak Ulmer Leather Co. (Leather) Tanned)
 TOLLAND—Sumner, Wm. Belting Co. Patent Cotton, Leather Belting, Watch Twist, Angular or V, Round Solid, Plain Cotton & Round Twist)

DELAWARE.

WILMINGTON—McComb, Thos. (Leather), 9 S Broad
 Rhoades, J. E. & Sons (Leather), 3d & Orange

GEORGIA.

ATHENS—McConnell, J. C. Belting Co.
 ATLANTA—BOSTON BELTING CO. (Southern Belting Co., Rep.), 40-46 Forsyth. (See adv. index, end of book)
 Ladew, Edward R. (Est. of) ("Hoyt," "Flintstone" Short Lap Oak Tanned Belting), 18 N Forsyth
 Southern Belting Co. (Leather), 40 S Forsyth

ILLINOIS.

CHICAGO—Allen, W. D. Mfg. Co. (Leather), 151 Lake
 American Belting Co., 161 E Lake
 BOSTON BELTING CO. (Jewell Belting Co., Rep.), 175 Lake. (See adv. index, end of book)
 Boston Woven Hose & Rubber Co. (of Cambridge, Mass.) ("Perfection" Rubber Belting Constructed of Fine Closely Woven Duck), 145 W Lake
 CARPENTER, GEO. B. & CO., 202 S Water. (See adv. index, end of book)
 Chicago Belting Co. ("Reliance" & "Sea Lion" Waterproof Leather), 18 S Green
 Chicago Rawhide Mfg. Co. ("Krome" & Rawhide Leather), 75 E Ohio
 Goodyear Rubber Co. (of New York), 40 Dearborn
 Gutta Percha & Rubber Mfg. Co. (of New York City), 224 E Randolph
 Hamilton Rubber Mfg. Co. (of Trenton, N. J.), 161 Lake
 Hercules Mfg. Co., 4328 Greenwood av
 Home Rubber Co. (of Trenton, N. J.), 60 S Canal
 JEFFREY MFG. CO. ("Century" Rubber.) (See adv. index, end of book)
 Jewell Belting Co. (of Hartford, Conn.), 175 Lake
 Ladew, Edward R. (Est. of) of New York City ("Hoyt," "Flintstone" Short Lap Oak Tanned Belting), 135 E Lake
 Lynch, Edw. & Co. (Leather), 84 W Washington
 Lyon, Sam'l & Son (Oak Tanned), 20 S Jefferson
 Main Belting Co. (of Phila., Pa.), 55 Market
 Manhattan Rubber Co. (of New York) (Rubber), 103 Lake
 Mechanical Rubber Co. ("Elephant" Rubber), 230 Randolph
 Moloney Belting Co. (Leather), 224 Randolph
 Munson, Chas. Belting Co. (Leather, Oak Tanned, also Round), 88 Franklin
 New York Belting & Packing Co. (Ltd.) (of New York City) (Rubber), 150 Lake
 Norwich Belt Mfg. Co. (of Norwich, Conn.), 115 W Washington
 Page Belting Co. (of Concord, N. H.), 7 S Jefferson
 Revere Rubber Co. (of Boston, Mass.), 168 Lake
 Schieren, Chas. A. & Co. (of New York City), 84 Franklin
 Sumner, Wm. Belting Co. (of Tolland, Conn.), 19 S Canal
 United States Chemi Belting Co. ("Chemi" Linen Cord Center), 109 S Jefferson
 Williams, I. B. & Sons (of Dover, N. J.), (Oak Tanned Leather), 120 Franklin
 Woodcock Bros. (Leather), 66 W Lake

INDIANA.

EVANSVILLE—Evansville Leather & Belting Co. (Leather)
 INDIANAPOLIS—BOSTON BELTING CO. (Taylor Belting Co., Rep.), 247 S Meridian (See adv. index, end of book)
 Hide, Leather & Belting Co., 227 S Meridian

LOUISIANA.

SHREVEPORT—Gulf States Belting & Hose Co. (Leather)

KENTUCKY.

LOUISVILLE—BOSTON BELTING CO. (W. & A. C. Semple, Rep.), 311 W Main. (See adv. index, end of book)

LOUISIANA.

NEW ORLEANS—BOSTON BELTING CO. (Southern Belting Co. of New Orleans, Rep.), 718-720 Union

MAINE.

BANGOR—BOSTON BELTING CO. (M. Schwartz' Sons, Rep.) (See adv. index, end of book)
 LEWISTON—Dickey, H. H. & Son (Leather)
 SAGO—Beatty, J. W. & Co.

MARYLAND.

BALTIMORE—Baltimore Belting Co. (Leather), 113 W Lombard
 BOSTON BELTING CO. (Carey Machinery & Supply Co., Rep.), 119-121 E Lombard. (See adv. index, end of book)
 Chesapeake Belting Co. (Stitched Canvas), 823 McKim
 Gandy Belting Co. (Sewed Cotton Duck), 728 W Pratt
 Kelley-Staley Belting Co. (Oak Tanned), 210 N Holliday
 Maryland Belting & Packing Co. (Leather), 506 S Dallas
 Mount Vernon Belting Co. (Stitched Canvas), 327 Warren av

MASSACHUSETTS.

BOSTON—American Belting & Tanning Co. "Aquamarine" Water Proof Mineral Tanned Leather, Oak Tanned Leather), 135 Oliver
 Barnes, Henry K. (Oak & Mineral Tanned Leather, Steam & Water Proof), 104 Franklin
 Bay State Belting Co. (Oak & Indian Tanned Leather), 43 High
 BOSTON BELTING CO. (Rubber, Stitched, Gutta Balata "Forsyth" "Universal" Patent. Conveyor, Elevator, Endless, Red Frictioned, etc.), 260 Devonshire. (See adv. index, end of book)
 Boston Woven Hose & Rubber Co. (of Cambridge, Mass.) ("Perfection" Rubber Belting Constructed of Fine Closely Woven Duck), 170 Summer
 Carton Belting Co. (Stitched Canvas), 52 Everett, Alls.
 Chicago Rawhide Mfg. Co. (of Chicago, Ill.), 139 Congress
 Globe Leather Belting Co. (Leather), 151 Pearl
 Gutta Percha & Rubber Mfg. Co. (of New York City), 71 Pearl
 Hunt, Henry C. Co. (Leather), 32 Oliver
 Ireson, C. L. (Leather), 221 High
 Knowlton, Geo. W. Rubber Co. (Rubber), 88 Broad
 Ladew, Edward R. (Est. of) of New York City ("Hoyt," "Flintstone" Short Lap Oak Tanned Belting), 228 Franklin
 Main Belting Co. (of Phila., Pa.), 120 Pearl
 Norwich Belt Mfg. Co. (of Norwich, Conn.), 134 Congress
 New York Belting & Packing Co. (Ltd.) (of New York) (Rubber), 232 Summer
 Page Belting Co. (of Concord, N. H.), 31 Pearl
 Revere Rubber Co. (Giant, Seamless & Stitched Rubber), 77 Bedford
 Ruboll Belting Co. (of Philadelphia, Pa.), 179 Summer
 Schieren, Chas. A. & Co. (of New York City), 186 Lincoln
 Shackley, W. T. & Son (Leather), 49 High
 Shultz Belting Co. (of St. Louis, Mo.), (Rawhide & Woven Leather Link), 114
 Union Belt Co., 139 Congress
 Williams, I. B. & Sons (of Dover, N. H.), 157 Summer

CAMBRIDGE—Boston Woven Hose & Rubber Co. ("Perfection" Rubber Belting Constructed of Fine Closely Woven Duck)
 FALL RIVER—Union Belt Co. (Oak Tanned)
 HOLYOKE—Holyoke Belting Co. (Short Lap Leather & Submarine & Waterproof Leather)

LAWRENCE—McLanathan, F. W. (Leather) National Belting Co. ("Textol" Canvas & Leather)
 LOWELL—Turner, J. S. Mfg. Co. (Oak Tanned Leather)
 Whiting, Henry F. (Oak Tanned Leather)
 NORTH CHELMSFORD—North Chelmsford Machine & Supply Co. (Oak Tanned Leather)
 SALEM—Kelton-Bruce Mfg. Co. (Oak & Indian Tanned Leather)
 SOUTH ATTLEBORO—Coupe, Wm. & Co. ("Excelsior" Raw Hide)
 WORCESTER—Graton & Knight Mfg. Co. (Oak Tanned Leather)
 HUDSON BELTING CO. (Stretched Oak, Mineral & Indian Tanned Leather). (See adv. below)
 Multiple Woven Hose & Rubber Co. (Solid, Multiple Woven Waterproof)
 Warren, J. F. & W. H. Co. (Oak Tanned)

MICHIGAN.

DETROIT—Climax Oak Belting Co., 27 Bates
 Detroit Oak Belting Co. (Oak Tanned, Short Lap), 262 Wight
 Wormer, C. C. Machinery Co., 97 Woodbridge W
 GRAND RAPIDS—Barelay, Ayers & Bertsch Co. (Oak Tanned Short Lap)
 Rainville, Felix, 3 Pearl
 NILES—National Leather Mfg. Co. ("National" Surface Tan & Oak Tan, etc.)

MINNESOTA.

MINNEAPOLIS—Nott, W. S. Co. (Oak Tanned Leather)
 Sikes, S. R. Co. (Leather), 915 Wash'n av, S.
 ST. PAUL—BOSTON BELTING CO. (Crane & Ordway Co., Rep.), 5th & Rosabel. (See adv. index, end of book)

MISSOURI.

KANSAS CITY—BOSTON BELTING CO. (English Tool & Supply Co., Rep.), 1308-1310 Grand av. (See adv. index, end of book)
 ST. LOUIS—Bennett Dreyer Belting Co., 3110 N 11th
 BOSTON BELTING CO. (Handlan-Buck Mfg. Co., Rep.), 210-214 N 3d. (See adv. index, end of book)
 Byrnes, J. W. Belting & Hose Co. (Leather, Canvas & Rubber), 914 N 2d
 Graton & Knight Mfg. Co. (of Worcester, Mass.), 614 N 3d
 Hartmann, E. Hide & Leather Co. (Leather), 1905 Sheuandoh av
 Manhattan Rubber Mfg. Co. (of New York City), 214 N 2d
 Missouri Belting Co. ("Giant" Rawhide & Oak Tanned Leather), 120 S Commercial
 New York Belting & Packing Co. (of New York City), 218 Chestnut
 Page Belting Co. (of Concord, N. H.), 320 N 3d
 Shultz Belting Co. (Raw Hide & Woven Leather Link), 402 Barton
 Spring Belting Co. (Leather), 715 N 2d

NEW HAMPSHIRE.

CONCORD—Page Belting Co. (Leather)
 DOVER—Williams, I. B. & Sons (Oak Tanned Leather)

NEW JERSEY.

BLOOMFIELD—Combination Rubber Mfg. Co. (Rubber)
 Crisp, Jas. & Co. (Round & Twist, etc.)
 JERSEY CITY—Eureka Fire Hose Co. (Cotton Machine)
 N. J. Car Spring & Rubber Co. (Quilt Stitched), R. R. av & Brunswick
 Voorhees Rubber Mfg. Co. (Rubber, "Criterion," "Union," "Federal," "Bostwick," "American," "Conqueror," "Corliss," "Sensation," "Clairmont," "Power")
 NEWARK—Couse & Bolton (Oak Tanned Leather), 25 Camfield
 De Forge Belting Co. (Oak Tanned, Short Lap Leather), 84 Mechanic
 Gaskell, Chas. L., 29 Filmore
 Ladew, Edward R. (Est. of), of New York City ("Hoyt," "Flintstone" Short-Lap Oak Tanned Belting), 307 Market
 Meier's, Joseph Sons (Leather, "Steer Brand"), 306 Market
 Phoenix Leather Belting Co. (Oak Tanned), 225 Bruce

ROSSENDALE - REDDAWAY
Belting & Hose Co. ("Sphinx" & Other
Brands of Stitched Canvas Belting;
also the "Camel" Brand Hair Belting).
(See adv. index, end of book)

Walker, Chas. W. (Oak Tanned)
WALSH'S SONS & CO. (See adv.
index, end of book)

PASSAIC—Manhattan Rubber Mfg. Co. (See
New York)
New York Belting & Packing Co. (See
New York)

TRENTON—Consolidated Rubber Co. (Rubber)
Crescent Belting & Packing Co. (Rubber)
Empire Rubber Mfg. Co. (Rubber & Stitched)
Hamilton Rubber Mfg. Co. (Rubber)
Home Rubber Co. (Rubber)
Lanning, Geo. W. (Oak Leather, etc.)
Thermoid Rubber Co. (Rubber)
United & Globe Rubber Mfg. Co. (Rubber)
Whitehead Bros. Rubber Co. (Rubber)

NEW YORK.

ALBANY—Albany Belting & Supply Co.
(Leather), 372 E'way

BUFFALO—**BICKFORD & FRANCIS**
Belting Co. (Leather), 37 Pearl. (See
adv. index, end of book)

BOSTON BELTING CO. (Rubber),
Stitched, Gutta Percha, "Forsyth" Patent
"Universal" Conveyor, Elevator, Endless,
Red Frictioned, etc.), 90 Pearl. (See
adv. index, end of book)

Buffalo Belting Works (Leather), 18 Ellicott
Buffalo Weaving & Belting Co. (Solid Cot-
ton Machine, 2 to 12 Ply; also Rubber),
234 Chandler

Peerless Belting Co., 105 Main

LOCKPORT—Empire Mfg. Co. (Cotton Rubber
Lined)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Brooklyn Leather Belting Co., 42
S 6th
N. Y. Leather Belting Co., 467 Kent av
Schieren, Chas. A. & Co. (Leather), 523
3d av

Boroughs of Manhattan & Bronx.

NEW YORK—Ballard, Stephen Rubber Co., 90
W B'way
Bishop Gutta Percha Co. (Gutta Percha),
422 E 25th

BOSTON BELTING CO. (of Boston),
Mass.) (Rubber, Stitched, Gutta Balata,
"Forsyth" Patent "Universal" Conveyor,
Elevator, Endless, Red Frictioned, etc.),
100 Reade. (See adv. index, end of book)
Boston Woven Hose & Rubber Co. (of Cam-
bridge, Mass.) ("Perfection" Rubber Bel-
ting Constructed of Fine Closely Woven
Duck), 116 Duane

Boyle, John & Co. (Solid Woven Cotton,
Rubber Filled), 112 Duane
Bradford Belting Co. (of Cincinnati, O.),
88 Reade

Chicago Belting Co. (of Chicago, Ill.),
253 Reade
Chicago Raw Hide Mfg. Co. (of Chicago,
Ill.), 123 Liberty

Duryea Mfg. Co. ("Wooster's" Cotton Wat-
erproof), 69 Wall
Empire Rubber Mfg. Co. (of Trenton, N. J.)
(Rubber & Stitched), 148 Chambers

Eureka Fire Hose Co. (Cotton Machine), 13
Barclay
Fay Belting Co. (Indian Tanned Leather),
3 Jacob

FAY, W. C. BELTING CO. (Oak
Tanned), 78 Warren
Gandy Belting Co. (of Baltimore, Md.),
88 Reade

Goodyear Rubber Co., 787 B'way
Graton & Knight Mfg. Co. (of Worcester,
Mass.), 72 Warren
Gutta Percha & Rubber Mfg. Co., 126 Du-
ane

Home Rubber Co. (of Trenton, N. J.), 80
Imperial Rubber Co., 253 B'way
JEFFREY MFG. CO. ("Century"
Rubber), 77 Warren. (See adv. index,
end of book)

Jewell Belting Co. (of Hartford, Conn.),
211 Center
Ladew, Edward R. (Est. of) of New York
City ("Hoyt," "Flintstone" Short Lap
Oak Tanned Belting), 200 William

Loeb Bros. Leather Belting Co. (Leather),
29 Ferry

Main Belting Co. (of Phila., Pa.), 309 B'way
Manhattan Rubber Mfg. Co. ("Condor"
Rubber), 18 Vesey
Mechanical Rubber Co. (Rubber), 73 Reade
Mineralized Rubber Co. ("Mincot" Rubber),
18 Cliff

Missouri Belting Co. (of St. Louis, Mo.),
120 Liberty
National Leather Belting Co., 29 Ferry
New York Belting & Packing Co. (Ltd.), 91
Chambers

New York Leather Belting Co. (Oak Tanned),
51 Beekman
New York Rubber Co. (Rubber), 84 Reade
Page Belting Co. (of Concord, N. H.), 78
Cliff

Providence Belting Co. (of Providence, R. I.),
69 Centre
Rahmann, Geo. & Co. (Leather), 6 Ferry
Rhoades, J. E. & Sons (of Wilmington,
Del.), 40 Fulton

Revere Rubber Co. (of Boston, Mass.), 59
Reade
Robins New Conveyor Co. ("Robin's" Lami-
nated Leather, Conveyor & Balata for
Power Transmission, 72 Front

ROLLED STEEL LINK BELT &
Conveyor Co., 150 B'way. (See adv. in-
dex, end of book)

Schieren, Chas. A. & Co. (Oak Tanned
Leather, etc.), 30 Ferry
Shultz Belting Co. (of St. Louis, Mo.,
Rawhide & Aqua Waterproof), 111
Chambers

Southwick, Geo. W. Co. (Inc.) (Reinforced
Double), 90 Centre
Stine, J. R. & Co. (Leather), 51 Beekman

STRONG MACHINERY & SUPPLY
Co. ("Strong's" Tisafine), 48 Franklin.
(See adv. index, end of book)

Voorhees Rubber Mfg. Co. (Nubian Rub-
ber), 48 Dey
Waterbury Rubber Mfg. Co. (Rubber), 75
Warren

(End of New York City)

ROCHESTER—Cross Bros. & Co. (Leather)

SYRACUSE—Syracuse Supply Co. (Oak Tan-
ned Leather), 314 W Fayette

TROY—Barnum Bros. Co. (Oak Tanned)
Troy Belting & Supply Co. (Leather), 6 Grand
Pine & Co., 3d av, & 21st

UTICA—Smyth-Despard Co. (Oak Tanned
Leather)

NORTH CAROLINA.

CHARLOTTE—Charlotte Leather Belting Co.

OHIO.

AKRON—Akron Belting Co. (Leather "Ak-
ron" Brand)

DIAMOND RUBBER CO. (Rubber)
"Python," "Titan," "Spinx," "Gulf,"
"Moose & "Lynx". (See adv. index,
end of book)

Goodrich, B. F. Co. ("Goodrich," "Pil-
grim," "Pinnacle," "Cycle," "Rob Roy,"
"Marathon")

CINCINNATI—BOSTON BELTING CO.
(Queen City Supply Co., Rep.), 201 W
Pearl. (See adv. index, end of book)

Bradford Belting Co. (Leather), 2d c Walnut
Burr Oak Belting Co., 521 Livingston
Cincinnati Rubber Mfg. Co. (Rubber)

Eagle Belting Co. (Leather), 22 E Canal
Eagle Counter & Leather Co. (Leather),
414 E 8th

Franklin Cotton Mill Co. (Cotton), Charles
& Plum
Regal Belting Co. (Leather) 1811 Linn

CLEVELAND—BOSTON BELTING CO.
(W. Bingham Co., Rep.), 1433-1455 9th,
N. W. (See adv. index, end of book)

Cleveland Belting & Machinery Co., 8 Long
Consumers Rubber Co. (Rubber, etc.), 1407
W 6th, N. W.

Consumers Rubber Works (Rubber, etc.),
1407 W 6th, N. W.
Mechanical Rubber Co. (Rubber), C & P &
Nickel Plate R. R.

Republic Belting Co. (Leather Oak Tanned),
1616 W 3d
Sawyer Belting Co. (Canvas Stitched)

Williams, R. A. Co., 1614 Columbus rd
CO L U M B U S — JEFFREY MFG. CO.
("Century" Rubber.) (See adv. index,
end of book)

TOLEDO—BOSTON BELTING CO.
(Bostwick, Braun Co., Rep.) (See adv. in-
dex, end of book)

Hettrick Bros. Co. ("Hettrick's" Hemp)
YOUNGSTOWN—American Belting Co.
("Alpha," Heavy Canvas)

Republic Rubber Co. (Rubber)

OREGON.

PORTLAND—BOSTON BELTING CO.
(Simonds Mfg. Co., Rep.), 85 First. (See
adv. index, end of book)

Page Belting Co. (of Concord, N. H.), 68 1st

PENNSYLVANIA.

ALLENTOWN—BOSTON BELTING CO.
(Wm. H. Taylor & Co., Rep.), 250 Hamil-
ton. (See adv. index, end of book)

CHESTER—Wilby, Thos. & Sons (Leather)

ERIE—Continental Rubber Works (Rubber)

HAZLETON—BOSTON BELTING CO.
(Hazleton Machinery & Supply Co., Rep.).
(See adv. index, end of book)

LANCASTER—Helvetia Leather Co.

PHILADELPHIA—Alexander Bros. (Oak Tan-
ned), 406 N 3d

Army, C. W. & Son (Oak Tanned), Tren-
ton av c E Somerset

Barlow Bros. (Leather), 547 N 64th
Bond, Chas. Co. (Leather), 520 Arch
BOSTON BELTING CO. (Malconroy
Co. (Inc.), Rep.), 722 Arch. (See adv. in-
dex, end of book)

Bowen & Martin (Leather), 112 S 2d
Brown, D. P. & Co. ("Teon," made in
England), 264 N 4th

Chicago Belting Co. (of Chicago, Ill.),
234 N 3d

Etsweiler & Blackburn (Indian Tanned),
230 N 3d

Fisher Leather Belting Co., 408 Vine
Gilmer, L. H. Co. (Leather), 504 Arch
Graton & Knight Mfg. Co. (of Worcester,
Mass.), 132 N 3d

Jewell Belting Co. (of Hartford, Conn.),
240 Somerset

Ladew, Edward R. (Est. of) of New York
City ("Hoyt," "Flintstone" Short Lap
Oak Tanned Belting), 16 S 3d

Main Belting Co. ("Leviathan," Canvas),
1237 Carpenter

National Mat & Belt Co., Frankford
New York Belting & Packing Co. (Ltd.) (of
New York City) (Rubber), 118 N 8th

Page Belting Co. (of Concord, N. H.), 43 N
7th

Paulus, Jos. C. & Co. (Leather), 2507 Potter
Pechin, Jno. W. (Oak Leather), 31 S 3d
Pechin, T. E. (Oak Leather), Front c Ox-
ford

Quaker City Rubber Co. (Chas. A. Daniel,
Prop.) (Rubber), 629 Market

Restein, Clement & Co. (Rubber, etc.), 139 N 2d
Revere Rubber Co. (of Boston, Mass.)
Drexel bldg

Rhoades, J. E. & Sons (of Wilmington,
Del.), 12 N 3d

Richie, Crawford & Co. (Leather), 420 N 3d
Ruboll Belting Co. ("Ruboll" Canvas), 47
N 7th

Schieren, Chas. A. & Co. (Of New York City),
226 N 3d. Factory, N. Y.

Shultz Belting Co. (Of St. Louis, Mo.) (Raw-
hide & Woven Leather Link), 116 N 3d

Wise & Bailey (Leather), 108 Walnut

PITTSBURG — BOSTON BELTING CO.
(J. & H. Phillips, Rep.), 136 6th. (See
adv. index, end of book)

Hartley-Rose Belting Co. (Leather), 425
1st av

JEFFREY MFG. CO. ("Century"
Rubber.) (See adv. index, end of book)

Ladew, Edward R. (Est. of) of New York
City ("Hoyt," "Flintstone" Short Lap
Oak Tanned Belting), 112 Market

Pittsburg Rubber & Leather Co. (Leather),
14 Wood

PITTSBURGH GAGE & SUPPLY
Co., 30th & Liberty av. (See adv. in-
dex, end of book)

Revere Rubber Co. (of Boston, Mass.),
Hartge bldg

Schieren, Chas. A. & Co. (of New York
City), 240 3d av

SCRANTON—BOSTON BELTING CO.
(Scranton Supply & Machinery Co., Rep.),
131 Wyoming. (See adv. index, end of
book)

RHODE ISLAND.

PAWTUCKET—Bucklin, C. R. Belting Co.
Weatherhead, Thompson & Co. (Leather)

PROVIDENCE—Brown Bros. Co. (Leather)
Norwich Belt Co. (of Norwich, Conn.)

Providence Belting Co. (Oak Tanned &
Waterproof Copper-Wire-Sewed Oak
Leather)

TENNESSEE.

MEMPHIS—**BOSTON BELTING CO.** (Towner & Co., Rep.), 78 N Main. (See adv. index, end of book)
 NASHVILLE—**BOSTON BELTING CO.** (Keith, Simmons & Co., Rep.), 316-318 Union. (See adv. index, end of book)

VIRGINIA.

RICHMOND—Richmond Leather Mfg. Co. (Leather), 2201 E Cary
 Virginia Leather Co. (Oak Tanned), Chamber of Commerce bldg

WASHINGTON.

SEATTLE—**BOSTON BELTING CO.** (Simmonds Mfg. Co.), 119 Jackson. (See adv. index, end of book)
 Graton & Knight Mfg. Co. (of Worcester, Mass.)
 Jewell Belting Co. (of Hartford, Conn.)

WISCONSIN.

MILWAUKEE—Milwaukee Leather Belting Co.
 Western Raw Hide & Belting Co. ("White" Rawhide & "Superior" "Hammond" Surface Tanned)

Belting Mfrs. (Angular)

Page Belting Co., Concord, N. H.
 Rahmann & Co., 6 Ferry, New York
 Summer, Wm. Belting Co. (Or V Belting), Tolland, Conn.

Belting Mfrs. (Balata)

Robins New Conveyor Co., 72 Front, New York

*Belting Mfrs. (Camel's Hair)

ROSENDALE - REDDAWAY BELTING & Hose Co. (The "Camel" Brand Hair Belting), Main Office & Works, Newark, N. J. (See adv. index, end of book)

Belting Mfrs. (Canvas, Linen Cord Center)

United States Cheml Belting Co. ("Cheml"), 109 S Jefferson, Chicago, Ill.

Belting Mfrs. (Canvas, Rawhide Center)

Chicago Rawhide Mfg. Co. (Flint Hide Belting, Preston Patent), 75 E Ohio, Chicago, Ill.

Belting Mfrs. (Canvas Stitched)

American Belting Co., Youngstown, O.
 Boston Woven Hose & Rubber Co. ("Milo" Stitched Canvas), Cambridge, Mass.
 Carton Belting Co. ("Carton," Stitched Canvas), Boston, Mass.
 Chesapeake Belting Co., 823 McKim, Baltimore, Md.
 Empire Rubber Mfg. Co., Trenton, N. J., & 148 Chambers, New York
 Gandy Belting Co., Baltimore, Md.
 Main Belting Co. ("Leviathan"), 1219 Carpenter, Phila., Pa.
 Mount Vernon Belting Co., 327 Warren av, Baltimore, Md.
 National Belting Co., Lawrence, Mass.
 New Jersey Car Spring & Rubber Co., Jersey City, N. J.
 New York Leather Belting Co. ("Victory"), 51 Beekman, New York
 Page Belting Co., Concord, N. H.
 ROSENDALE - REDDAWAY BELTING & Hose Co. ("Sphinx" & Other Brands), Newark, N. J. (See adv. index, end of book)
 Rnboil Belting Co., Bourse bldg, Phila., Pa.
 Rubber & Celluloid Harness Trimming Co., Newark, N. J.
 Sawyer Belting Co., Cleveland, O.
 Trenton Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co. (Stitched Cotton Duck), Jersey City, N. J.

Belting Mfrs. (Chain or Link)

BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)

Buhl Malleable Co., Wight & Adair, Detroit, Mich.
 Caldwell, H. W. & Son Co., Western av & 17th, Chicago, Ill.

Chain Belt Co., Milwaukee, Wis.
 Diamond Chain & Mfg. Co., Indianapolis, Ind.
 Dodge Mfg. Co., Mishawanka, Ind.
 Exeter Machine Works, Pittston, Pa.
 Forster, Waterbury & Co. (Detachable), Franklin Park, Ill.

Herschel, R. Mfg. Co., Peoria, Ill.
 Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.

JEFFREY MFG. CO. (Steel), Columbus, O. (See adv. index & branch offices, end of book)

Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York

Link Chain Belt Co. ("Clouser"), 52 Dey, New York

Link, Jas. H. Machinery Co. ("Arrow Brand" Detachable Chain), Williamsport, Pa.
 Mey Chain Belting Engineering Works, 77 Washington, Buffalo, N. Y.

Michigan Sprocket Chain Co., Detroit, Mich.
 Moline Malleable Iron Co., St. Charles, Ill.
 Moore & Lorenz Co., 816 Fulton, Chicago, Ill.

Port Huron Engine & Thresher Co., Port Huron, Mich.

ROLLED STEEL LINK BELT & CONVEYOR Co., 150 B'way, New York. (See adv. index, end of book)

Scaife Foundry & Machine Co., 28th & Smallman, Pittsburgh, Pa.
 Stowell Mfg. & Foundry Co. (Malleable Iron), S Milwaukee, Wis.

Taylor Iron & Steel Co. (Link), High Bridge, N. J.

WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

WELLER MFG CO., 124 E. North av, Chicago. (See adv. index, end of book)

West Allis Malleable Iron & Chain Belt Co., West Allis, Wis.

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Belting Mfrs. (Conveyor)

American Belting Co. ("Alpha," "American" Thresher), Youngstown, O.
 BOSTON BELTING CO., Boston, Mass. (See adv. index, end of book)

Boston Woven Hose & Rubber Co. (Rubber Conveyor & Transmission), Cambridge, Mass.
 Combination Rubber Mfg. Co., Bloomfield, N. J.

DIAMOND RUBBER CO. ("Goss"), etc., Akron, O. (See adv. index, end of book)

Duryea Mfg. Co. ("Wooster's"), 69 Wall, New York

Goodrich, B. F. Co., Akron, O.
 PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index, end of book)

Robins New Conveyor Co., 72 Front, New York
 ROLLED STEEL LINK BELT CO., 150 B'way, New York. (See adv. index, end of book)

Sumner, Wm. Belting Co. (Patent Cotton Leather), Tolland, Conn.

Voorhees Rubber Mfg. Co., Jersey City, N. J.
 WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Belting Mfrs. (Detachable Link)

(See Belting Manufacturers, Chain or Link)

Belting Mfrs. (Dynamo)

Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago, Ill.

National Leather Mfg. Co., Niles, Mich.
 Page Belting Co., Concord, N. H.
 Shultz Belting Co., 402 Barton, St. Louis, Mo.
 Western Rawhide & Belting Co. (Surface Tan), 7th av & S Pierce, Milwaukee, Wis.

Belting Mfrs. (Elevator)

(See Belting Manufacturers, Conveyor)

Belting Mfrs. (Laminated Leather)

Robins New Conveyor Co. ("Robins"), 72 Front, New York

Belting Mfrs. (Leather)

(See Belting Manufacturers)

Belting Mfrs. (Leather Link)

National Mat & Belt Co., Frankfort, Phila., Pa.

Belting Mfrs. (Perforated)

Schieren, Chas. A. & Co. (Electric), 30 Ferry, New York

Belting Mfrs. (Raw Hide)

Bay State Belting Co. (Indian Tan), 43 High, Boston, Mass.

Chicago Rawhide Mfg. Co., 75 E. Ohio, Chicago, Ill.

Coupe, Wm. & Co. ("Flexible," "Excelsior"), South Attleboro, Mass.

Kelton-Bruce Mfg. Co. (Indian Tan), Salem, Mass.

Missouri Belting Co. ("Giant"), 120 S Commercial, St. Louis, Mo.

National Leather Mfg. Co., Niles, Mich.
 Page Belting Co., Concord, N. H.
 Shultz Belting Co. ("Shultz Sable"), 402 Barton, St. Louis, Mo.

Western Rawhide & Belting Co. ("White"), Milwaukee, Wis.

Belting Mfrs. (Rawhide, Canvas Center)

Shultz Belting Co., 402 Barton, St. Louis, Mo.

Belting Mfrs. (Rope)

American Mfg. Co. (Manila, Sisal, etc.), 65 Wall, New York

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.

National Leather Mfg. Co. (Rawhide, Surface Tan), Niles, Mich.

Page Belting Co., Concord, N. H.
 Western Rawhide & Belting Co. (Rawhide), 7th av & S Pierce, Milwaukee, Wis.

Belting Mfrs. (Round or Twist)

Bay State Belting Co., 43 High, Boston, Mass.
 Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.

Coupe, Wm. & Co. (Rawhide Round), South Attleboro, Mass.

Crisp, James & Co., Bloomfield, N. J.
 Graton & Knight Mfg. Co., Worcester, Mass. (See adv. index, end of book)

Jewell Belt Hook Co., Hartford, Conn.
 Ladew, Edward R. (Est. of) (Leather), 200 William, New York

Missouri Belting Co. ("Giant"), St. Louis, Mo.

National Leather Mfg. Co. (Rawhide, Surface Tan), Niles, Mich.

New York Leather Belting Co., 51 Beekman, New York

Page Belting Co. ("Crown" Leather), Concord, N. H.

Providence Belting Co. (Folded Twist), 25 Charles, Providence, R. I.

Rhoads, J. E. & Sons, Wilmington, Del.
 Sumner, Wm. Belting Co. (Patent Cotton Leather), Tolland, Conn.

Western Rawhide & Belting Co., Milwaukee, Wis.

Williams, I. B. & Sons ("Gilt Edge" Round), Dover, N. H.

Belting Mfrs. (Rubber)

(See Belting Manufacturers)

Belting Mfrs. (Sewing Machine)

(See Belting Manufacturers, Round or Twist)

Belting Mfrs. (Solid Cotton)

Bay State Belting Co. ("Standard"), 43 High, Boston, Mass.

Boyle, John & Co., 112 Duane, New York

Buffalo Weaving & Belting Co., Buffalo, N. Y.
 Duryea Mfg. Co. ("Wooster's"), 69 Wall, New York

Empire Mfg. Co. ("Empire" Waterproof), Lockport, N. Y.

Eureka Fire Hose Co., 13 Barclay, New York; Works: Jersey City, N. J.
 Franklin Cotton Mill Co., Charles & Plum, Cincinnati, O.

Page Belting Co., Concord, N. H.
 Russell Mfg. Co., Middletown, Conn.

Belting Mfrs. (Thresher)

American Belting Co. (Endless Stitched Canvas, "Alpha," "American" Thresher), Youngstown, O.
 Boston Woven Hose & Rubber Co. ("Grain King" Canvas), Cambridge, Mass.
 Carton Belting Co. ("Carton," Endless), Boston, Mass.
 Chesapeake Belting Co. (Endless Stitched Canvas), Baltimore, Md.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
 Gandy Belting Co. (Endless Stitched Canvas), Baltimore, Md.
 Gilmer, L. H. & Co. (Endless), 504 Arch, Philadelphia, Pa.
 Goodrich, B. F. Co., Akron, O.
ROSSENDALE - REDDAWAY BELTING & HOSE CO. (Endless Stitched Canvas), Newark, N. J. (See adv. index end of book)
 Sawyer Belting Co. (Endless Stitched Canvas), Cleveland, O.
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Belting Mfrs. (Waterproof)

Chicago Belting Co. ("Sea Lion," Leather), Chicago, Ill.
 Duryea Mfg. Co. ("Wooster's" Cotton), 69 Wall, New York
HUDSON BELTING CO. ("Mermaid"), Worcester, Mass. (See adv. index, end of book)
 Multiple Woven Hose & Rubber Co. (Solid Multiple Woven), Worcester, Mass.
 Nott, W. S. Co. ("Hero"), Minneapolis, Minn.
 Page Belting Co., Concord, N. H.
 Williams, I. B. & Sons ("Shedite"), Dover, N. H.

Belting Mfrs. (Woven Leather)

American Woven Belting Co., Springfield, Mass.
 New York Leather Belting Co. ("Viking"), 51 Beekman, New York

Belts (Linemen's)

Bunge, Otto, Indianapolis, Ind.
 Dicke, C. H. Tool Co., Downers Grove, Ill.
 Feaser, Frank S. Co., Indianapolis, Ind.
 Galewski, Adolph, 323 B'way, New York
 Klein, Mathias & Sons, 78 W Van Buren, Chicago, Ill.
 Meckel, Fred L., 83 E 13th, Chicago, Ill.

Belts (Polishing)

Ames Sword Co. (Endless Silk Sewed), Chicopee, Mass.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
 Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
 Gilmer, L. H. & Co. ("Gilmer" Endless), 504 Arch, Philadelphia, Pa.
 Goodrich, B. F. Co., Akron, O.
HUDSON BELTING CO., Worcester, Mass. (See adv. index, end of book)
 Manhattan Rubber Mfg. Co. (Canvas with Rubber Insertion), 18 Vesey, New York
 Page Belting Co. (Leather), Concord, N. H.

Bench Legs

Bethlehem Foundry & Machine Co. (Carpenters' & Pattern Makers'), Front, South Bethlehem, Pa.
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Bench Stops

Bonny Vise & Tool Works (Inc.), Allentown, Pa.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
MORRILL, CHAS. ("Morrill"), 277 B'way, New York. (See adv. index, end of book)
 Sheldon, E. H. & Co. ("Sheldon's" Quick Set), 84 N May, Chicago, Ill.
 Smith, Seymour & Son, Oakville, Conn.
 Stearns, E. C. Co., Syracuse, N. Y.
 Stover Mfg. Co., Freeport, Ill.
 Vaughn & Bushnell Mfg. Co. ("V. & B." German Pattern), 875 W Carroll av, Chicago, Ill.

Benches (Cabinet & Pattern Makers', Etc.)

American Tool Chest Co., 200 W Houston, New York
 Grand Rapids Hand Screw Co., Grand Rapids, Mich.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Ohio Tool Co., Columbus, O.
 Oliver Machinery Co., Grand Rapids, Mich.
 Sheldon, E. H. & Co., 84 N May, Chicago, Ill.

Benches (Cutting)

Boos, John & Co., Effingham, Ill.
 Petoskey Block & Mfg. Co. (All Kinds), Petoskey, Mich.
 Wilson Mfg. Co., Appleton, Wis.

Benches (Draw)

Bates Machine Co., Joliet, Ill.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Cresson, Geo. V. Co., Allegheny av, W of 17th Phila., Pa.
G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)
 Morgan Construction Co., Worcester, Mass.
 Ohi, Geo. A. & Co. (20 ft also 24 ft), Newark, N. J.
 Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1485 Niagara, Buffalo, N. Y.
 Perkins Machine Co. (Belt Power & Electrically Driven), Warren, Mass.
 Richard Mfg. Co. Co., Bloomsburg, Pa.
 Standard Machinery Co., Providence, R. I.
 Vulcan Foundry & Machine Co., New Castle, Pa.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Benches (Gas Retort)

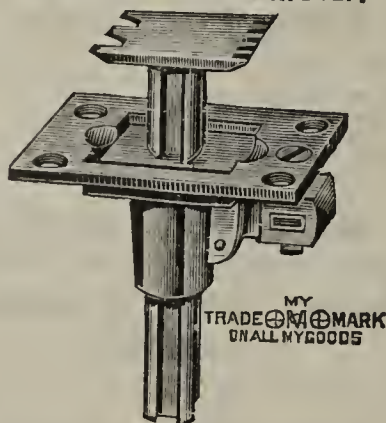
Baltimore Gas Retort & Fire Brick Co. (Half & Full Depth & Free Firing), Baltimore, Md.
 Didier-March Co. ("Dessau," System of Vertical Retorts), 50 Church, New York
 Gardner, Jas., Jr. Co. (Plain & Recuperative), Lockport, Pa.
 Gas Bench Construction Co. (For Coal Gas), St. Louis, Mo.
 Improved Equipment Co., 60 Wall, New York
 Isbell-Porter Co., Newark, N. J.
 Laclede-Christy Clay Product Co. ("Laclede-Christy"), St. Louis, Mo.
 Missouri Fire Brick Co. (Inclined Benches), St. Louis, Mo.
 Parker-Russell Mining & Mfg. Co., St. Louis, Mo.

***Benches (Hydraulic Draw)**

WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

Benches (Machinists' Work)

Ohio Ceramic Engineering Co., Cleveland, O.
 Vanderman Plumbg & Heating Co., Willimantic, Conn.

MORRILL'S NO.2 BENCH STOP.**MANUFACTURED BY****CHAS. MORRILL, 277 Broadway, N. Y.****Benches (Manual Training)**

Grand Rapids Hand Screw Co., Grand Rapids, Mich.
 Ohio Tool Co., Columbus, O.
 Pinches, Jno. Co., New Britain, Conn.
 Sheldon, E. H. & Co., 84 N May, Chicago, Ill.

Benches (Molders')

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Hudson, J. M. ("Hudson"), Piqua, O.

Benches (Movable & Stationary)

Western Tool & Mfg. Co., Springfield, O.
 Zerling, H. Mfg. Co., Cincinnati, O.

Benches (Saw)

(See Saw Benches)

Benches (Scraper)

Reed, F. E. Co. (For Machine Shops), Worcester, Mass.

Benches (Wire Drawing)

(See Wire Drawing Machinery)

Benches (Work)

Manufacturing, Equipment & Engineering Co., 209 Washington, Boston, Mass.

Benders (Angle & Eye, Hand Power)

Estep & Dolan (Also Ring & Hinge), Sandwich, Ill.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Novelty Iron Works (G. E. Davis, Prop.), Duquesne, Pa.
 Wallace Supply Co., 23 S Jefferson, Chicago, Ill.

Benders (Conduit)

Benson, Wm. W. & Co. ("El-Bend"), Penn. Mutual bldg, Phila., Pa.
 Chicago Pneumatic Tool Co. ("Little Giant"), Fisher bldg, Chicago, Ill.
 Glaze-Morris Mfg. Co. ("Jem"), Columbus, O.
 Rittenhouse, A. E. Co. ("Rittenhouse"), Scranton, Pa.
 Smith, Chas. A. ("P. & S."), 245 Church la, Gtn., Phila., Pa.
 Steel City Electric Co. ("Fullman" Electric & Hand), Pittsburg, Pa.
 Thomas & Betts Co. ("Lakin," "Standard," "Hickey"), 299, B'way, New York
 Vanderman Plumbing & Heating Co., Willimantic, Conn.
 Wrigley, Thos. Co., 300 Dearborn, Chicago, Ill.

Benders (Hook & Eye)

Kidder, J. F. Mfg. Co., Burlington, Vt.

Benders (Lead Pipe)

BERNZ. OTTO, 8 13th & S Orange av, Newark, N. J. (See adv index, end of book)
 Cleveland Wire Spring Co., Cleveland, O.
 Lord, L. L. Co. ("Lord"), Meadville, Pa.
 Mark Mfg. Co., Evanston, Ill.
 Morgan Spring Co., Worcester, Mass.
 Raymond Mfg. Co., Corry, Pa.

Benders (Rail)

(See Rail Benders; also Rail Bending & Straightening Machines)

Benders (Ring)

Wallace Supply Co. (Hand Power, from 1 to 20 inch Rings), 23 S Jefferson, Chicago, Ill.

Benders (Tire)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Boynton & Plummer, Worcester, Mass.
 Buffalo Forge Co., Buffalo, N. Y.
 Champion Blower & Forge Co., Lancaster, Pa.
 Comstock, Geo. S., Mechanicsburg, Pa.
 Concord Axle Co., Penacook, N. H.
 Fulton Iron Works ("Detroit" Perfected), Detroit, Mich.

Haven Malleable Casting Co., Cincinnati, O.
 Illinois Iron & Bolt Co. ("I. I. & B. Co.")
 Roller Bearing), Carpentersville, Ill.
 Kane & Roach, Syracuse, N. Y.
 Potts, David H., Lancaster, Pa.
 Southern Skein & Foundry Co. (Common &
 Roller Bearing), Chattanooga, Tenn.
 Swett, A. L. Iron Works, Medina, N. Y.
 Weybourn, Co. ("Rockford Ideal"), Rockford,
 Ill.
 Wiley & Russell Mfg. Co. ("Green River"),
 Greenfield, Mass.
 Williams, White & Co. (Also Welders), Moline,
 Ill.

Bends (Return)

LUNKENHEIMER CO. (Brass), General
 offices & Works, Beckman & Waverly,
 Cincinnati, O. (See adv. index & branch
 offices, end of book)
 National Tube Co. (Cast, Malleable & Iron),
 Pittsburgh, Pa.
 Williams, D. T. Valve Co., 410 E 8th, Cincinnati,
 O.

Benzine

Bulls Head Oil Works, San Francisco, Cal.
 Crew, Levick Co., Philadelphia, Pa.
 Emery Mfg. Co., Bradford, Pa.
 Non-Explosion Oil Co. of America, Baltimore.
 Union Petroleum Co., Phila., Pa. Md.

Benzol Refiners

Barrett Mfg. Co., Land Title bldg, Phila., Pa.
CABOT, SAMUEL (Inc.), 141 Milk,
 Boston, Mass. (See adv. index, end of book)
 McClintock & Irvine (Crude), Neville & Pa. R.
 R., Allegheny, Pa.
 National Aniline & Chemical Co. ("C. P.-90
 Per Cent., & Straw Colored), 100 William,
 New York
 Pacific Refining & Roofing Co., 113 New Mont-
 gomery, San Francisco, Cal.
 Solvay Process Co., 25 A K bldg, Syracuse, N.Y.
 White Tar Co., 101 N Moore, New York

Berths & Bunks (Metallic)

Lein, Irvine & Co., 332 E 23d, New York

Bevels

Athol Machine Co., Athol, Mass.
 Bemis & Call Hardware & Tool Co., Spring-
 field, Mass.
 Braunsdorf-Mueller Co. (T Perfection), Eliza-
 beth, N. J.
 Calhoun, A. D. & Co. ("Calhoun," Rafter &
 Polygon), Perry, Mo.
 Chapin-Stephens Co. (Ship Carpenters', etc.),
 Pine Meadow, Conn.
 Disston, Henry & Sons (Inc.), Tacony, Phila-
 delphia, Pa.
 Massachusetts Tool Co. (Draughtmans'), Green-
 field, Mass.
 Sawyer Tool Mfg. Co. (Combination), Fitch-
 burg, Mass.
 Stanley Rule & Level Co., New Britain, Conn.
STARRETT, L. S. CO. (Combination
 Universal, etc.), Athol, Mass. (See adv.
 index & branch offices, end of book)

Bibbs

(See Cocks & Bibbs)

Bi-Chloride of Tin

Grasselli Chemical Co., The Arcade, Cleve-
 land, O., & 63 Wall, New York

Bicycle Mfrs.

(See also Motor Cycles)

Arnold, Schwinn & Co., Chicago, Ill.
 Consolidated Mfg. Co. ("Yale"), Toledo, O.
 Davis Sewing Machine Co., Dayton, O.
 Emblem Mfg. Co., Angola, N. Y.
 Fowler-Manson-Sherman Cycle Mfg. Co., Chi-
 cago, Ill.
 Gendron Wheel Co., Toledo, O.
 Great Western Mfg. Co., La Porte, Ind.
 Hendee Mfg. Co., Springfield, Mass.
 Hudson Mfg. Co., Hudson, Mich.
 Johnson, Iver, Arms & Cycle Works, Fitchburg-
 Mass.
 Keim, Jno. R. Mills (Inc.), Buffalo, N. Y.
 Liberty Cycle Co. ("Liberty," "Bridgeport"),
 Bridgeport, Conn.
 Light Mfg. & Foundry Co., Pottstown, Pa.
 Miami Cycle & Mfg. Co. ("Racycle"), Middle-
 town, O.
 National Cycle Mfg. Co., Bay City, Mich.

Pierce Cycle Co., Buffalo, N. Y.
 Pope Mfg. Co., Hartford, Conn.
 Reading Standard Co., Reading, Pa.
 Snyder, H. P., Little Falls, N. Y.
 Strohm, W. A. & Bro., 588 W Lake, Chicago,
 Ill.
 Toledo Metal Wheel Co., Toledo, O.
 Waltham Mfg. Co., Waltham, Mass.
 Worthington Co., Elyria, O.

Bicycle Parts & Sundries

(See also Bolts, Bicycle; also Chains, Bicycle;
 also Nuts, Bicycle; also Pumps, Bicycle;
 also Screws, Bicycle; also Springs, Bicycle;
 also Tubing, Bicycle)

Aurora Automatic Machinery Co. (Hubs), Au-
 rora, Ill.
 Beckley-Ralston Co., 80 Michigan
 av., Chi-
 cago, Ill.
 Bevin Bros. Mfg. Co. (Toe Clips, Trouser
 Guards, etc.), East Hampton, Conn.
 Brennan Mfg. Co. (Bicycle Handle Bars, etc.),
 Syracuse, N. Y.
 Buckeye Mfg. Co., Canton, O.
 Buescher Band Instrument Co., Elkhart, Ind.
 Bullock Mfg. Co. (Rims), 172 Dwight, Spring-
 field, Mass.
 Climax Mfg. Co. (Saddles, etc.), East Hampton
 Collmer Bros., South Bend, Ind.
 Consolidated Mfg. Co. (Handle Bars), Toledo, O.
 Corbin Screw Corporation (Special to Order),
 New Britain, Conn.
 Crosby Co. (Stamped Steel Fittings & Ball
 Cups), 171-189 Pratt, Buffalo, N. Y.
 Forsyth Mfg. Co. (Chain Guards, Coaster
 Brake, etc.), Buffalo, N. Y.
FRASSE, PETER A. & CO., 130
 Worth, New York. (See adv. index & branch
 offices, end of book)
 Hall, Chas. E. Co. (Drop Forged), Buffalo,
 Harris & Reed Mfg. Co., Chicago, Ill. N. Y.
 Hunter Arms Co., Fulton, N. Y.
 Hydraulic Pressed Steel Co. (Sprockets), E
 61st, Cleveland, O.
KEIM, JOHN R. MILLS (Inc.) (Stamp-
 ing, Frame Sets, Parts, etc.), Buffalo, N. Y.
 (See adv. index, end of book)
 Liberty Cycle Co., 166 John, Bridgeport, Conn.
 Matthews, H. A. Mfg. Co., Seymour, Conn.
 Matthews Mfg. Co. (Fittings, etc.), Worces-
 ter, Mass.
 Myers, F. E. & Bro., Ashland, O.
PAGE-STORMS DROP FORGE CO.
 (Drop Forged), Chicopee, Mass. (See adv.
 index, end of book)
 Parish & Bingham Co. (Sprockets), 5363 Ham-
 iltan, Cleveland, O.
 Perry-Fay Mfg. Co. (Screw Machine Products),
 Elyria, O.
 Reading Saddle & Mfg. Co. (Saddles, etc.),
 Reading, Pa.
 Scoville Mfg. Co. (Pumps, Oilers, Valves, etc.),
 Waterbury, Conn.
 Standard Co. (Spokes & Nipples), Torrington,
 Standard Steel Tube Co., Toledo, O.
 Toledo Mfg. Co., Toledo, O.
 Troxel Mfg. Co. (Saddles, etc.), Elyria, O.
 Turner Brass Works, Sycamore, Ill.
 Western Automatic Machine Screw Co., Elyria,
 Ohio

WORCESTER PRESSED STEEL CO.
 (Fittings, etc.), Worcester, Mass. (See adv.
 index, end of book)
 Worthington Co., (Bicycles & Tricycles), Elyria,
 Ohio

Bicycle Spoke Threaders

Blake & Johnson, Waterbury, Conn.
 Detrick & Harvey Machine Co., Baltimore, Md.
 Geometric Tool Co., New Haven, Conn.
 Goodell-Pratt Co., Greenfield, Mass.
 Manville Machine Co., Waterbury, Conn.

Bicycle Wheel Truing Stands

Dudley Tool Co., Menominee, Mich.

Bidets

Dalton-Ingersoll Co., Boston, Mass.
 Mott, J. L. Iron Works, 118 5th av, New York
 Peck Bros. & Co., 125 Chestnut, New Haven,
 Conn.

Billets (Manganese Bronze)

American Manganese Bronze Co., 99 John, New
 York

Billets, Blooms & Slabs (Steel)

(See also Ingots, Steel)

Allegheny Steel Co. (Open Hearth Billets),
 Pittsburgh, Pa.
 American Bridge Co. (Open Hearth Billets &
 Blooms), Pittsburgh, Pa.
 American Steel Co. (Jobbers, Blooms, Billets,
 etc.), Pittsburgh, Pa.
AMERICAN STEEL & WIRE CO.
 (Bessemer Billets, Blooms & Slabs), Com-
 mercial Nat. Bank bldg., Chicago, Ill. (See
 adv. index & branch offices, end of book)
 American Tube & Stamping Co. (Open Hearth
 Billets, Blooms & Slabs, Brand "Swedoh"),
 Bridgeport, Conn.
 Andrews Steel Co. (Open Hearth Billets, Slabs
 & Forging Billets), Newport, Ky.
 Ashland Steel Co. (Bessemer Steel Billets &
 Slabs), Ashland, Ky.
 Atlanta Steel Co. (Basic Open Hearth Billets),
 Atlanta, Ga.
 Banning, Cooper & Co. (Ltd.) (Brokers), Lewis
 bldg, Pittsburgh, Pa.
 Bethlehem Steel Co. (Acid & Basic Open
 Hearth Billets), South Bethlehem, Pa.
 Cambria Steel Co. (Bessemer & Open Hearth
 Ingots), Arcade bldg., Phila., Pa.
 Carbon Steel Co. (Basic Open Hearth Billets
 & Ingots), Pittsburgh, Pa.
 Carnegie Steel Co. (Open Hearth & Bessemer
 Billets, Blooms & Slabs; also Forging Bil-
 lets & Blooms), Pittsburgh, Pa.
 Colonial Steel Co. (Open Hearth & Crucible In-
 gots), Pittsburgh, Pa.
 Colorado Iron & Fuel Co. (Bessemer & Open
 Hearth Billets & Blooms), Denver, Colo.
 Crucible Steel Co. of America (Open Hearth &
 Bessemer Billets), Frick bldg, Pittsburgh, Pa.
 Dover Forge & Iron Co. (Forging Billets &
 Charcoal Iron), Canal Dover, O.
 Eastern Steel Co. (Open Hearth Billets &
 Blooms), Pittsburgh, Pa.
 Harrisburg Pipe & Pipe Bending Co. (Open
 Hearth Billets, Slabs, etc.), Harrisburg, Pa.
 Illinois Steel Co. (Bessemer & Open Hearth
 Billets, Blooms & Slabs), Commercial Bank
 bldg., Chicago, Ill.
 Indiana Steel Co. (Open Hearth), Commercial
 Bank bldg, Chicago, Ill. Mills, Gary, Ind.
 Inland Steel Co. (Open Hearth Billets, Blooms
 & Slabs), 1st Nat. Bank bldg., Chicago, Ill.
 Jones & Laughlin Steel Co. (Bessemer & Open
 Hearth Billets, Blooms, Slabs, etc.), Pitts-
 burg, Pa.
 La Belle Iron Works (Open Hearth Billets,
 Blooms, etc.), Steubenville, O.
 Lackawana Steel Co. (Open Hearth & Besse-
 mer Billets, Blooms & Slabs; also Forging
 Billets, Blooms & Slabs), Buffalo, N. Y.
LEAVITT, C. W. & CO. ("Billets,
 etc.), 30 Church, New York. (See adv. in-
 dex, end of book)
 Lucknow Iron & Steel Co. (Open Hearth Bil-
 lets & Charcoal Blooms), Harrisburg, Pa.
 Lukens Iron & Steel Co. (Open Hearth Billets,
 Slabs, Forging Blanks, etc.), Coatesville, Pa.
 Maryland Steel Co. (Bessemer Billets &
 Blooms), Baltimore, Md.
 Midvale Steel Co. (Open Hearth), Nicetown,
 Phila., Pa.
 National Tube Co. of Ohio (Bessemer Billets,
 etc.), Lorain, O.
 Otis Steel Co. (Open Hearth), Cleveland, O.
 Pardee, C. Works (Open Hearth Billets &
 Blooms), Perth Amboy, N. J.
 Penna. Steel Co. (Bessemer & Open Hearth
 Billets, Blooms, Ingots & Slabs; also Forging
 Billets, Blooms, Nail Slabs & High Carbon
 Steel Billets; also Small & Seamless
 Round Tube Billets), Girard Trust bldg,
 Phila., Pa.
 Pittsburgh Steel Co. (Open Hearth Billets),
 Pittsburgh, Pa.
 Portsmouth Steel Co. (Open Hearth, Billets &
 Slabs), Wheeling, W. Va. Works, Ports-
 mouth, O.
 Republic Iron & Steel Co. (Bessemer & Open
 Hearth Billets & Blooms), Frick bldg. An-
 nex, Pittsburgh, Pa.
SHARON STEEL HOOP CO. (Open
 Hearth Steel Billets), Sharon, Pa. (See
 adv. index & branch offices, end of book)
 Snyder, W. P. & Co. (Billets & Sheet Bars,
 Dealers), Pittsburgh, Pa.
 Southern Steel Co. (Open Hearth Billets,
 Blooms & Slabs), Birmingham, Ala.
 Stewart Iron Co. (Ltd.) (Hammer Blooms Only),
 Sharon, Pa.
 Tennessee Coal, Iron & R. R. Co. (Open Hearth
 Billets, Blooms & Slabs), Birmingham, Ala.

Tyrone Iron Co. (Charcoal Blooms), Harrisburg, Pa.
 United Steel Co. (Open Hearth, Billets & Slabs), Canton, O.
 Vulcan Crucible Steel Co. (Open Hearth), Allquippa, Pa.
 Wheeling Steel & Iron Co. (Bessemer Billets, Blooms & Nail Slabs), Wheeling, W. Va.
 Wood, Alan Iron & Steel Co. (Basic Open Hearth Billets, etc.), 519 Arch, Phila., Pa.
 Youngstown Sheet & Tube Co. (Bessemer Billets, Blooms & Slabs), Youngstown, O.

Billiard Table Beds (Slate)

Allen's, S. Sons, Fair Haven, Vt.
 American Slate Co., Bangor, Pa.
 Conlman & Westcott, Fair Haven, Vt.
 Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
 Hinchey, Patrick, Hydeville, Vt.
 Pennsylvania Structural Slate Co., Easton, Pa.
 Scotch Hill Slate Co., Fair Haven, Vt.
 Slatington Slate Co., Slatington, Pa.

*Billiard & Pool Tables (Portable for Houses)

BURROWES, E. T. CO., THE, 70
 Free, Portland, Me. (See adv. index & branch offices, end of book)

Binders

(See Harvesters, Various Kinds)

Binders (Core)

Federal Foundry Supply Co. ("Bright's" Dry), Cleveland, O.
HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)
 Robeson Process Co. (Made of Glutrin), Au Sable Forks, N. Y.
 Sterling Oil Co., Emlenton, Pa.

Binding (Oil Cloth)

Hubbell, Ray (Metallic; also Linoleum), Northville, N. Y.
TURNER & SEYMOUR MFG. CO.,
 Torrington, Conn. (See adv. index, end of book)

Binnacles

Bliss, Jno. & Co., 128 Front, New York
 Hand, Jno. & Sons ("Lord Kelvin"), 222 Walnut, Phila., Pa.
 Merrills, R. Sons, 66 South, New York
 Negus, T. S. & J. D., 140 Water, New York
 Riggs & Bro. (Compensating), 310 Market, Philadelphia, Pa.

Binoculars, Telescopes & Marine Glasses

Bausch & Lomb Optical Co., Rochester, N. Y.
 Goerz, C. P. Optical Works ("Trieder"), 52 Union square E, New York
 Spencer Optical Mfg. Co. ("Audemair"), 12 Malden la, New York
 Stevens, J. Arms & Tool Co. (Rifle Telescopes), Chicopee Falls, Mass.

*Bins (Coal, Coke & Ore)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

Bins (Steel)

Bushnell Tank Works (Grain), Bushnell, Ill.
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

Davis Mfg. Co., 267 6th, Milwaukee, Wis.
MACKINNON BOILER & MACHINE
 Co. (Cement), Bay City, Mich. (See adv. index, end of book)

Manufacturing, Equipment & Engineering Co., 209 Washington, Boston, Mass.
 Pittsburg Steel Construction Co., Lewis blk, Pittsburg, Pa. Works, Economy, Pa.
 Power & Mining Machinery Co. (Cement), Cudahy, Wis.

Prims Machinery Co., Battle Creek, Mich.
REEVES BROS. CO., Alliance, O. (See
 adv. index & branch offices, end of book)

SCAIFE, WM. B. & SONS CO., 221
 1st av, Pittsburg, Pa. (See adv. index, end of book)

Wellman-Seaver-Morgan Co. (For Coal & Ore Storage), Cleveland, O.

Bins (Steel Factory)

Jefferis, Richard Co. ("Jefferis," Pressed Steel), Camden, N. J.
 Lyon Metallic Mfg. Co., Aurora, Ill.
 Terrell's Equipment Co., Grand Rapids, Mich.

Bismuth

Grosscurth & Luboldt, London, Eng.
 Mallinckrodt Chemical Works, St. Louis, Mo.
MERCHANT & EVANS CO. (Inc.),
 (Metal), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Merck & Co., University pl & 8th, New York
 Pfizer, Chas. & Co., 81 Maiden la, New York
 Powers-Weightman-Rosengarten Co., Phila., Pa.
 Waite, Ranlet & Co., Boston, Mass.

Bit Braces

Bergman Hardware & Tool Mfg. Co. (Corner Bit Braces), Buffalo, N. Y.
 Chantrell Tool Co., Reading, Pa.
 Detroit Twist Drill Co., Detroit, Mich.
 Dicke Tool Co. (for Electricians, Plumbers, etc.), Downers Grove, Ill.

Extension Sweep Brace Co. (Adjustable 6, 8 or 10 inch), Niagara Falls, N. Y.
 Fray, John S. & Co. (Ratchet, Sleeve, Drill & Corner Braces), Bridgeport, Conn.

Goodell-Pratt Co. (Ratchet, Sleeve & Corner "Spofford"), Greenfield, Mass.

Ives, W. A. Mfg. Co., 299 B'way, New York
 Lancaster Machine & Knife Works (Ratchet & Straight), Lancaster, N. Y.

Mason & Parker, Winchendon, Mass.
 Mayhew, H. H. Co. (Also Angle Bit Braces), Shelburne Falls, Mass.

Millers Falls Co. ("Barber" & "Barker," Ratchet Corner), 28 Warren, New York; Works: Millers Falls, Mass.

Peck, Stow & Wilcox Co. ("P. S. & W. Samson"), Sonthington, Conn.
 Smith, J. Barton Co., Hope & Norris, Phila., Pa.

Stanley Rule & Level Co. (Carpenters'), New Britain, Conn.
 Stortz, Jno. & Son., 210 Vine, Phila., Pa.
 Turner & Deegan, Bristol, Conn.

Bit Stock (Angular)

Millers Falls Co. ("Universal"), 28 Warren, New York; Works: Millers Falls, Mass.

Bits (Auger)

Adams, A. L., 151 Middle, Bridgeport, Conn.
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of book)

Bridgeport Gun Implement Co., 219 Elm, Bridgeport, Conn.
 Chester Mfg. Co., Chester, Conn.

Connecticut Valley Mfg. Co. ("Wright's Jennings"), Centerbrook, Conn.
 Deuse, J. S. (Double Spur), Chester, Mass.

Ford Auger Bit Co. (Machine, Ship, Car, etc.), Holyoke, Mass.
 Garritt & Beach, Seymour, Conn.

Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.
 Hardisty & Co., Station C, Cincinnati, O.

Hartley, M. Co., 313 B'way, New York
 Humphreysville Mfg. Co., Seymour, Conn.
 Irwin Auger Bit Co., Wilmington, O.

Ives, W. A. Mfg. Co., 299 B'way, New York
 Jennings, C. E. & Co. (Gimlet), 42 Murray, New York

Jennings, Russell Mfg. Co., Chester, Conn.
 Kraeuter & Co., Rochester, N. Y.
 Mack & Co., Rochester, N. Y.

Mayhew, H. H. Co. (Gimlet), Shelburne Falls, Mass.
 Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.

New Haven Copper Co., Seymour, Conn.
 Ohio Tool Co. ("Bailey"), Columbus, O.
 Peck, Stow & Wilcox Co., Sonthington, Conn.

Progressive Mfg. Co. ("Forstner"), Torrington, Conn.
 Pugh, Job T., 3101 Ludlow, Phila., Pa.

Rockford Bit Co., Kokomo, Ind.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Silver Mfg. Co. (Solid Center), Salem, O.
 Snell Mfg. Co., Fliskdale, Mass.
 Swan, Jas. Co. ("Cook's," etc.), Seymour, Conn.

Tower & Lyon Co., 95 Chambers, New York

Bits (Bell Hangers)

(See Drills & Bits, Electricians')

Bits (Car)

Connecticut Valley Mfg. Co. ("Wright's Jennings") Centerbrook, Conn.
 Ford Auger Bit Co., Holyoke, Mass.

Irwin Auger Bit Co., Wilmington, O.
 Ives, W. A. Mfg. Co., 299 B'way, New York
 Jennings, Russell Mfg. Co., Chester, Conn.

Mack & Co., Rochester, N. Y.
 Ohio Tool Co. ("Bailey"), Columbus, O.
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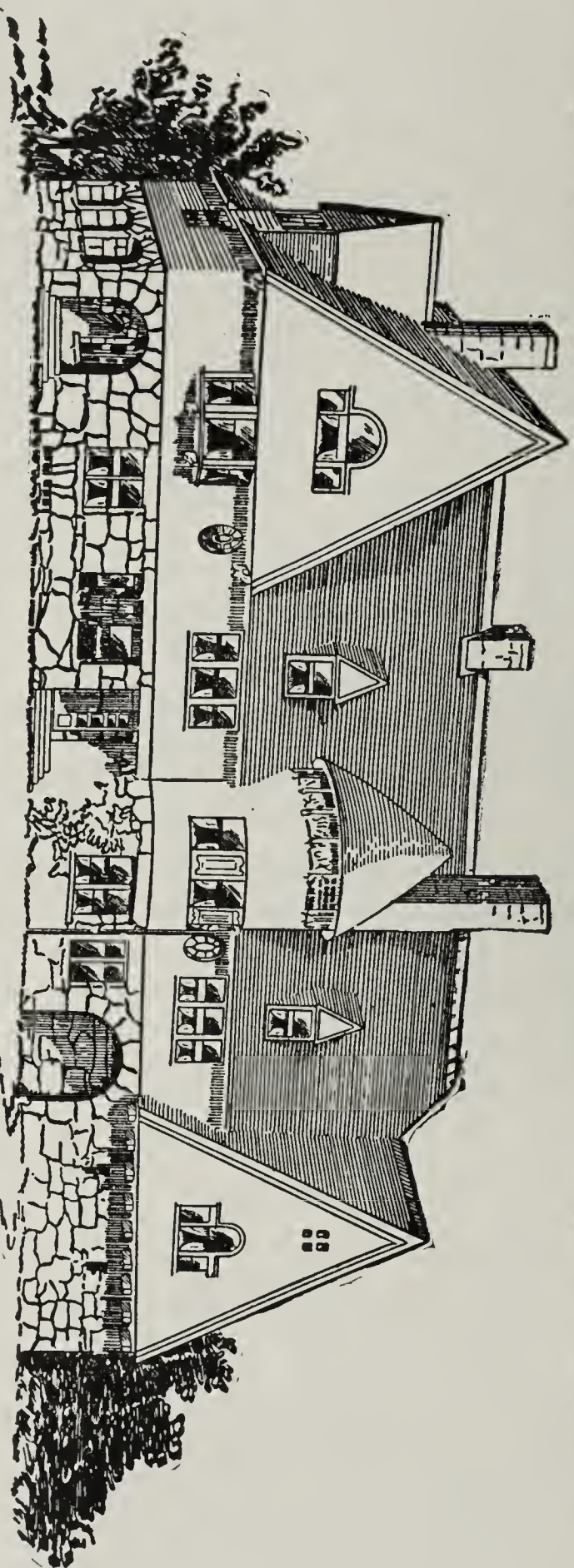
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 Vaughn & Bushnell Mfg. Co. ("V. & B."), Cast
 Steel for Wood or Metal, 875 W Carroll av,
 Chicago, Ill.

Bits (Dowel)

Connecticut Valley Mfg. Co., Centerbrook,
 Irwin Auger Bit Co., Wilmington, O. Conn.
 Jennings, Russell Mfg. Co., Chester, Conn.
 Ohio Tool Co. ("Bailey"), Columbus, O.
 Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
 Swan, Jas. Co. ("Jennings"), Pattern, Sey-
 mour, Conn.

***Bits (Drill)**

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end
 of book)
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)

Bits (Electricians')

(See Drills & Bits, Electricians')

Bits (Expansive)

Barrett Machine Tool Co., Meadville, Pa.
 Brown, R. H. & Co. ("Clark's"), New Haven,
 Conn.
 Conn Valley Mfg. Co. ("Clark"), Centerbrook,
 Conn.
 Ives, W. A. Mfg. Co., 299 B'way, New York
 Jennings, C. E. & Co., 42 Murray, New York
 Kilborn & Bishop Co., New Haven, Conn.
 Lord, L. L. Co. ("Lord"), Meadville, Pa.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
 Millers Falls Co. ("Barber"), 28 Warren, New
 York; Works: Millers Falls, Mass.
 Swan, James Co. ("Clark's," "Swan's"), Sey-
 mour, Conn.

Bits (Gimlet)

Deuse, J. S. (German, Double Cut Bits & Gim-
 lets, Bell Hangers, etc.), Chester, Conn.
 Garrett & Beach, Seymour, Conn.
 Jennings, C. E. & Co., 42 Murray, New York
 Works, Chester, Conn.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Swan, Jas. Co. (German), Seymour, Conn.

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 Greenlee Bros. Co., 225 W 12th, Chicago, Ill.
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 Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.

Bits (Hub Boring)

Detroit Twist Drill Co., Detroit, Mich.
 Forest City Bit & Tool Co., Rockford, Ill.
 Irwin Auger Bit Co., Wilmington, O.
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Detroit Twist Drill Co., (Straight Shank, etc.),
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 Ford Auger Bit Co., Holyoke, Mass.
 Greenlee Bros & Co., Railway Exchange bldg.,
 Chicago, Ill.

Irwin Auger Bit Co., Wilmington, O.
 Jennings, Russell Mfg. Co., Chester, Conn.
 New Process Twist Drill Co., Taunton, Mass.
 Ohio Tool Co. ("Bailey"), Columbus, O.
 Progressive Mfg. Co. ("Forstner"), Torrington,
 Pugh, Job T., 2100 Ludlow, Phila., Pa. Conn.
 Rockford Bit Co., Kokomo, Ind.
 Sandusky Tool Co., Sandusky, O.
 Silver Mfg. Co. (Round Lip & Solid Center),
 Snell Mfg. Co., Fiskdale, Mass. Salem, O.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.
 Swan, James Co., Seymour, Conn.
WHITMAN & BARNES MFG. CO.
 ("Prentice"), Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)

Bits (Mining Machine)

Fulton Tool Works ("Fulton"), Canal, Ful-
 ton, O.
 Harsoeg, Martin Co. (Tool Steel), Allegheny, Pa.
 Harris, Wm. & Son, Allegheny, Pa.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Pittsburg Steel Mfg. Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"),
 Works, Cheswick, Pa.

Bits (Rail Drill)

Buda Foundry & Mfg. Co., Chicago, Ill.; Works:
 Harvey, Ill.

Bits (Reamer)

Johnson, Wm. (Hedenberg Works), Newark,
 N. J.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875
 W Carroll av, Chicago, Ill.

Bits (Screw Driver)

Braunsdorf-Muehler Co., Elizabeth, N. J.
 Buck Bros., Millbury, Mass.
 Buck, Chas., Millbury, Mass.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Conn. Valley Mfg. Co., Centerbrook, Conn.
 Deuse, J. S., Chester, Conn.
 Fray, Jno. S. & Co. ("Fray's" Hollow Handle
 Screw Driver Sets), Bridgeport, Conn.
 Goodell-Pratt Co., Greenfield, Mass.
 Humason & Beckley Mfg. Co., New Britain,
 Irwin Auger Bit Co., Wilmington, O. Conn.
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 Johnson, Wm. (Hedenberg Works), Newark,
 N. J.

Keystone Drop Forge Works (Drop Forged), 20th
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 Krauter & Co., 577 18th av, Newark, N. J.
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 Works: Millers Falls, Mass.
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 Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
 Sawyer Tool Mfg. Co. ("Samson"), Fitchburg,
 Mass.
 Snell Mfg. Co., Fiskdale, Mass.
 Standard Tool Co., Central av & C. & P. R'y.
 Cleveland, O.
 Stortz, John & Son, 210 Vine, Philadelphia, Pa.
 Swan, Jas. Co., Seymour, Conn.
 Syracuse Twist Drill Co., Syracuse, N. Y.
 Tuck Mfg. Co., Brockton, Mass.
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 W Carroll av, Chicago, Ill.
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch of-
 fices, end of book)

Bits (Tapping)

Pugh, Job T., 2100 Ludlow, Philadelphia, Pa.
 Snell Mfg. Co., Fiskdale, Mass.
 Swan, James Co., Seymour, Conn.

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 Burdsal, A. Co., 102 S Meridian, Indianapolis,
 Ind.

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 Bangor Crescent Slate Co., Bangor, Pa.
 Bangor Hardy Slate Co., Pen Argyl, Pa.
 Bangor Slate Co., Bangor, Pa.
 Bangor Slate Mining Co., Bangor, Pa.
 Bangor Structural Slate Co., Bangor, Pa.
 Blue Mountain Slate Co., Wind Gap, Pa.
 Blue Valley Slate Co., Slattington, Pa.
 Carbon Slate Co., Slattington, Pa.
 Columbia Slate Co., Slattington, Pa.
 Columbus Slate Co., Columbus, O.
 Crown Slate Co., Pen Argyl, Pa.
 Dalby, R. H. Co., Slattington, Pa.
 East Bangor Consolidated Slate Co., East
 Bangor, Pa.
 Edwards Slate Co., Granville, N. Y.
 Excelsior Slate Co., Pen Argyl, Pa.
 Genuine Bangor Slate Co., Easton, Pa., &
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Hinchey, Patrick, Hydeville, Vt.
 Hower, J. K., Slattington, Pa.
 International Slate Co., Slattington, Pa.
 Johnson, E. J. Co., 36 Park Row, New York
 McKenna, David, Slattington, Pa.
 Meadow Brook Slate Co., Slattington, Pa.
 Miller, O. A. Slate Co., Slattington, Pa., & 127
 W Logan, Gtn., Phila., Pa.
 Monarch Slate Mfg. Co., Slattington, Pa.
 Monson Maine Slate Co., 113 Devonshire, Bos-
 ton, Mass.
 Moyer, J. S. & Co., Bethlehem, Pa., & Bangor,
 North Bangor Slate Co., Bangor, Me. Pa.
 Pelican Slate Mfg. Co., Wind Gap, Pa.
 Penna. Natural Slate Black Board Co., Slat-
 ington, Pa.
 Penna. Slate Co., Slattington, Pa.
 Penna. Structural Slate Co., Easton, Pa.
 Peters, E. D. & Sons, Slattington, Pa.
 Phoenix Slate Co., Windgap, Pa.
 Pittsburg Slate Co., 714 Jackson, N. S., Pitts-
 burg, Pa. Quarries, Bangor, Pa.
 Provident Slate Co., Slattington, Pa.
 Sieger, Henry N. & Son, Slattington, Pa.
 Schoonover, R. P. & Co., Bangor, Pa.
 Slattington-Bangor Slate Syndicate, Slattington,
 Slattington Slate Co., Slattington, Pa. Pa.
 Steckel, Sam'l, Slattington, Pa.
 Unger, John F., Slattington, Pa., & 1006 Mt.
 Vernon, Phila., Pa.

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Bandler, Bernard & Son (Also Bort for Dia-
 mond Drills & Mechanical Purposes), 65
 Nassau, New York
DESSAU'S, S. SONS (for Diamond
 Drills & All Mechanical Purposes; also
 Bortz), 180 B'way, New York. (See adv. in-
 dex, end of book)
MEYERS, WILLARD F., 342 Vernon
 av, Long Island City, N. Y. (See adv. in-
 dex, end of book)

Black Lead

Asbury Graphite Mills (H. M. Riddle, Prop.),
 (Miners & Refiners), Asbury, N. J.
DIXON, JOS. CRUCIBLE CO., Mon-
 mouth & Wayne, Jersey, City, N. J. (See
 adv. index & branch offices, end of book)
DOGGETT, STANLEY, 101 Beekman,
 New York. (See adv. index, end of book)
HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)
 Kelly, Thos. P. & Co., 544 W 22d, New York
 Obermayer, S. Co., 647 Evans, Cincinnati, O.
 Standard Graphite Co., 11 B'way, New York
 United States Graphite Co., Saginaw, Mich.

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 more, Pa.
 American Sheet & Tin Plate Co., Pittsburg, Pa.
 Atlanta Tin Plate & Sheet Mill, Indianapolis,
 Ind.
BERGER MFG. CO., THE (Iron
 Sheets for Tinning), Canton, O. (See adv.
 index & branch offices, end of book)
 Canonsburg Steel & Iron Works, Canonsburg, Pa.
 Carahan Tin Plate & Sheet Co., Canton, O.
 Colorado Fuel & Iron Co., Denver, Col.
 Follansbee Bros. Co. (Open Hearth), Pittsburg,
 Pa.
 Griffiths Charcoal Iron Mills, Washington, Pa.
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 Standard Tin Plate Co., Canonsburg, Pa.
 Taylor, N. & G. Co. Mariner & Merchant
 bldg., Phila., Pa.
 United Sheet & Tin Plate Co., Marietta, Pa.
 Washington Tin Plate Co., Washington, Pa.
 Waynesburg Forge, Sheet & Tin Mills, Waynes-
 burg, Pa.
 Western Tin Plate & Sheet Co., Greencastle,
 Ind.
 Whitaker-Glassner Co., Wheeling, W. Va.
 Zug Iron & Steel Co., Pittsburg, Pa.

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 American Blue Print Paper Co., 294 Dear-
 born, Chicago, Ill.
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 Beatty, F. W., 169 William, N. Y. Pa.
 Blue Print Co., 462 Baker bldg, Phila., Pa.

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 Christensen, H. B. Co., 14 Church, New York
 Cincinnati Blue Print Co., 141 E 4th, Cincinnati, O.
 Cole, H. Co., 103 N 3d, Columbus, O.
 Dietzgen, Eugene Co., 181 Monroe, Chicago, Ill.

ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa. (See adv. index, end of book)
 Farnham, H. A. 936 F, N W, Washington, D. C.
 Gurley, W. & L. E., Troy, N. Y.
 Hewlett, Geo. B., 32 Front, New York
 Indianapolis Blue Print & Supply Co., Indianapolis, Ind.

Keuffel & Esser Co., 127 Fulton, New York
 Keystone Blue Paper Co., 910 Elbert, Phila., Pa.

KULESCHE & CO., 138 Fulton, New York. (See adv. index, end of book)
 Kopp, Geo. L. & Co., Pittsburg, Pa.
 McCollin, Thos. H. & Co., 54 N 9th, Phila., Pa.
 Moss, Chas. E., 38 Broad, Boston, Mass.
 Oertel & Co., 514 Pearl, New York
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Post, Fred'k Co., 218 S Clark, Chicago, Ill.
 Power Wallace Co., 1219 Arch, Phila., Pa.
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

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 Taws, Henry M., 920 Arch, Phila., Pa.
 Technical Supply Co. ("Tec"), Scranton, Pa.
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United States Graphite Co., Saginaw, Mich.
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 Washers, Various Kinds;
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Blades (Hack Saw)

(See Index of Contents)

Blades (Metal Fan)

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 United Electric & Supply Co. ("Diverging"), St. Louis, Mo.
 Waterbury Brass Goods Corporation, Waterbury, Conn.

Blades (Metal Shear)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)
 Detroit Edge Tool Works, Detroit, Mich.
 Disston, Henry & Sons (Inc.), Tac., Phila., Pa.

Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
 Heppenstall Forge & Knife Co., Pittsburg, Pa.
 Hillies & Jones Co., Wilmington, Del.
 Lloyd, Chas. & Co., 558 Water, New York
NIAGARA MACHINE & TOOL WORKS, Superior & Randall, Buffalo, N. Y. (See adv. index, end of book)
 Ohl, George & Co., Newark, N. J.
 Simonds, A. A. & Son Co., Dayton, O.
 White, L. & I. J. Co., Buffalo, N. Y.

Blades (Shoe Cutters' Extension)

Richard Stephen Co., Southbridge, Mass.
 Tuck Mfg. Co., Brockton, Mass.

Blanchers (Peanut)

(See also Peanut Machinery)

Laubert Machine Co., Marshall, Mich.
 McLean, Jno., Lockport, N. Y.

Blankets (Horse & Cattle)

Burlington Blanket Co., Burlington, Wis.

*Blankets (Printers' & Lithographers')

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index, & branch offices, end of book)

Blanks (Caliper Gauge)

Corbin Screw Corporation (Internal & External), New Britain, Conn.

*Blanks (Chisel)

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

Blanks (Key)

Bohannon, Wilson, 754 Lexington av, Brooklyn, N. Y.
 Corbin Cabinet Lock Co., New Britain, Conn.
 Eagle Lock Co., Terryville, Conn.
 Graham Mfg. Co., Derby, Conn.
 New England Butt Co., Providence, R. I.
 Nock, Geo. W. ("Nock-Phila"), 126 N 4th, Philadelphia, Pa.
 Penn Iron Co. (Iron Screw), Lancaster, Pa.
 Yale & Towne Mfg. Co., 9 Murray, New York

Blanks (Thumb, Nut & Screw)

Billings & Spencer Co., Hartford, Conn.
 Keystone Drop Forge Works, Chester, Pa.
 Penn Iron Co., Lancaster, Pa.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

Blast Furnace Top Filling Apparatus

Weimer Machine Works Co., Lebanon, Pa.

Blast Furnace & Steel Works Construction

American Furnace & Machine Co. (Iron & Steel Works Only), Fulton bldg, Pittsburg, Pa.
 Beutner, Victor, Westinghouse bldg, Pittsburg, Pa.
 Birmingham Boiler Works, Birmingham, Ala.
CANTON BOILER & ENGINEERING Co., Canton, O. (See adv. index, end of book)
 Casey-Hedges Co., Chattanooga, Tenn.
 Colorado Iron Works Co., Denver, Colo.
 Crooker, Ralph, Jr., Columbia Bank bldg, Pittsburg, Pa.
 Forter-Miller Engineering Co., Pittsburg, Pa.
 Ferguson, Hugh, Pittsburg Life bldg, Pittsburg, Pa.
 Garrett-Cromwell Engineering Co., New England bldg, Cleveland, O.
 Huber, S. V. & Co. (Engineers & Contractors), Fulton bldg, Pittsburg, Pa.
 Kennedy, Julian, Bessemer bldg, Pittsburg, Pa.
 Kennedy, Walter (Automatic Top Filter System for Blast Furnaces), Bessemer bldg, Pittsburg, Pa.

Ladd & Baker, Real Estate Trust bldg, Phila., Pa.
 Lamond, David & Son, Ferguson hldg, Pittsburg, Pa.
 Lappan, Jas. Mfg. Co., 20th & Pike, Pittsburg, Pa.
 McClure, G. W. Son & Co., Bessemer blk., Pittsburg, Pa.
 McCullough-Daizell Crucible Co., 36th & A. V. Ry., Pittsburg, Pa.
 McKee, Arthur G., Rockefeller bldg, Cleveland, Ohio

MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Mackintosh, Hemphill & Co., ft 12th, Pittsburg, Pa.

McNeil, Jas. & Bro. Co., 29th & A. V. Ry., Pittsburg, Pa.

Meehan Boiler & Cons. Co., Lowellville, O.
 Mohr, Jno. & Sons (Inc.), 32 Illinois, Chicago, Ill.

Munroe, R. & Sons Mfg. Co., 23d & Smallman, Pittsburg, Pa.

Pennsylvania Engineering Works (Engineers & Contractors), New Castle, Pa.

PETROLEUM IRON WORKS CO. (Blast Furnace), Sharon, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Pittsburg Steel Construction Co., Lewis blk, Pittsburg, Pa. Works, Economy, Pa.

Pollock, Wm. B. Co., Youngstown, O.

REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
 Ritter-Conley Mfg. Co., Pittsburg, Pa., & 111 B'way, New York

Roberts & Schaefer Co. (Consulting & Contracting Engineers), Birmingham, Ala.

SCAIFE, WM. B. & SONS CO., (Engineers & Contractors), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Smythe, S. R. CO., Pittsburg, Pa.

Swindell, Wm. & Bros., German National Bank bldg, Pittsburg, Pa.

Weimer Machine Works Co., Lebanon, Pa.

Wellman-Seaver-Morgan Co., Cleveland, O.

WHITING FOUNDRY EQUIPMENT Co. (Engineers & Designers), Harvey, Ill. (See adv. index & branch offices, end of book)

Blast Furnaces

ALABAMA.

ANNISTON—Woodstock Iron & Steel Corp. (Foundry & Forge Pig Iron; Brand, "Woodstock")

ATTALLA—Eagle Iron Co. (Charcoal Car Wheel Pig Iron; Brand, "Rome"). (See Chattanooga, Tenn.)

BIRMINGHAM—Alabama Consolidated Coal & Iron Co. (Foundry & Forge Pig Iron; Brands, "Clifton," "Etowah")

Birmingham Coal & Iron Co. (Soft Foundry & Gray Forge Pig Iron; Brand, "Vanderbilt")

Sloss, Sheffield Steel & Iron Co. (Foundry & Forge Pig Iron; Brands, "Sheffield," "Lady Ensley," "Florence," "Sloss")

Southern Steel Co. (Foundry, Forge, Basic, High-Silicon, High-Manganese & Gray Forge Pig Iron; Brands, "Chattanooga," "Schuler," "Rising Fawn," "Trussville")

Tennessee Coal, Iron & Railroad Co. ("Foundry, Forge & Basic Pig Iron; Brands, "Alice," "De Bardeleben," "Eureka," "South Pittsburg," "Ensley")

Williamson Iron Co. (Foundry Pig Iron; Brand, "Williamson")

ENSLEY—Tennessee Coal Iron & Railroad Co. (See Birmingham, Ala.)

FLORENCE—Sloss, Sheffield Steel & Iron Co. (See Birmingham, Ala.)

GADSDEN—Alabama Consolidated Coal & Iron Co. (See Birmingham, Ala.)

HOLT—Central Iron & Coal Co. (Foundry Pig Iron; Brand, "Tus Caloosa"). Office: New York City

IRONATON—Alabama Consolidated Coal & Iron Co. (See Birmingham, Ala.)

OXMOOR—Tennessee Coal, Iron & Railroad Co. (See Birmingham, Ala.)

ROCK RUN—Bass Foundry & Machine Co. Charcoal, Car-Wheel & Strong Casting Pig Iron; Brand, "Rock-Run")

ROUND MOUNTAIN—Round Mountain Iron & Wood Alcohol Co. (Charcoal Low-Phosphorus & High-Grade Car-Wheel Pig Iron; Brand, "Round Mountain")

SHEFFIELD—Sheffield Coal & Iron Co. (Foundry & Forge Pig Iron; Brand, "Sheffield")
 Sloss, Sheffield Steel & Iron Co. (See Birmingham, Ala.)

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SHELBY—Shelby Iron Co. (Foundry Pig Iron; Brand, "Imperial"; & Charcoal Car-Wheel Pig Iron; Brand, "Shelby")
THOMAS—Republic Iron & Steel Co. (Bessemer, Mill & Foundry Pig Iron; Brands, "Pioneer"; Office, Pittsburg, Pa.)
TRUSSVILLE—Southern Steel Co. (See Birmingham, Ala.)
WOODWARD—Woodward Iron Co. (Basic, Foundry & Forge Pig Iron; Brand, "Woodward")

COLORADO.

DENVER—Colorado Fuel & Iron Co. (Bessemer, Basic & Foundry Pig Iron), Furnaces, Pueblo, Colo.

CONNECTICUT.

LIME ROCK—Barnum, Richardson Co. (Charcoal Car-Wheel, Malleable Castings, Ordnance & Machinery Pig Iron; Brand, "Sallsbury")

GEORGIA.

CEDARTOWN—Alabama & Georgia Iron Co. (Charcoal High Grade Car-Wheel Pig Iron; Brand, "Cherokee")
RISING FAWN—Southern Steel Co. (See Birmingham, Ala.)
ROME—Deane, Thos. J. (Foundry & Forge Pig Iron; Brand, "Silver Creek")
TALLAPOOSA—Southern Car-Wheel Iron Co. (Charcoal Pig Iron for Car-Wheels, Chilled Rolls, etc.; Brand, "Blue Ridge")

ILLINOIS.

CHICAGO—AMERICAN STEEL & WIRE Co. (Bessemer & Basic Pig Iron), Commercial Bank bldg. (See also Cleveland, O. & Pittsburg, Pa.)
Federal Furnace Co. (Malleable Bessemer & Foundry Pig Iron; Brand, "Federal"), Commercial Bank bldg.
Illinois Steel Co. (Bessemer, Forge, Foundry, Basic & Malleable Bessemer Pig Iron; Brands, "Bay-View," "Gertrude," "Milwaukee Scotch"), Commercial Bank bldg.
Indiana Steel Co. (Basic Pig Iron), Commercial Bank bldg.
Inland Steel Co. (Basic Pig Iron; Brand, "Inland"), 1st Nat. Bank bldg.
International Harvester Co. (Bessemer Malleable Bessemer & Foundry Pig Iron; Product all Consumed by the Company)
Iroquois Iron Co. (Foundry, Malleable & High-Silicon Soft Pig Iron; Brand, "Iroquois" for Strong Iron, "Sterling Scotch" for Soft Iron, "Peerless" for High-Silicon Soft Iron; "Malleable" for Malleable Iron), 95th & Calumet River
Spring Valley Iron & Ore Co. (Malleable Bessemer & Foundry Pig Iron; Brand, "Spring Valley"), Monadnock Blk.
Wisconsin Steel Co. (See International Harvester Co.)
JOLIET—Illinois Steel Co. (See Chicago, Ill.)

INDIANA.

GARRY—Indiana Steel Co. (See Chicago, Ill.)
INDIANA HARBOR—Inland Steel Co. (See Chicago, Ill.)

KENTUCKY.

ASHLAND—Ashland Iron & Mining Co. (Foundry & Forge Pig Iron; also Ferro-Silicon; Brands, "Boyd" for Foundry & "Ashland" for Ferro-Silicon)
Norton Iron Works (Inc.) (Bessemer & Malleable Bessemer Pig Iron; Brand, "Norton")
MIDDLESBOROUGH—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)

MARYLAND.

SPARROWS POINT—Maryland Steel Co. (Bessemer Pig Iron & Splurgeisen)

MASSACHUSETTS.

OHESHIRE—Berkshire Iron Works (Charcoal Car-Wheel, Engine Cylinders, Chilled Rolls, Crusher Plates, etc.; Brand, "Berkshire")
RICHMOND FURNACE—Richmond Iron Works (Charcoal Car-Wheel & Machinery Pig Iron; Brand, "Richmond")

MICHIGAN.

CADILLAC—Mitchell-Diggle Iron Co. (Charcoal Malleable Car-Wheel & Strong Foundry Pig Iron; Brand, "Cadillac")

DETROIT—Detroit Furnace Co. (Foundry, Malleable Bessemer, Basic & Car-Wheel Pig Iron; Brand, "Detroit")
DETROIT IRON & STEEL CO. (Foundry & Malleable Pig Iron; Brand, "Zug")
LAKE SUPERIOR IRON & CHEMICAL CO. (Charcoal Car-Wheel, Foundry & Malleable Pig Iron; Brands, "Hinkle," "Elk Rapids," "Champion," "Michigan")
EAST JORDAN—East Jordan Iron Co. (Charcoal Car-Wheel & Malleable Pig Iron)
FRUITPORT—Spring Lake Iron Co. (Charcoal Car-Wheel & Malleable Pig Iron; Brand, "Spring Lake")
GRAND RAPIDS—Antrim Iron Co. (Charcoal Car-Wheel & Malleable Pig Iron; Brand, "Antrim")
ISHPEMING—Cleveland-Cliffs Iron Co. (Charcoal Car-Wheel, Malleable, Foundry & Low-Phosphorus Pig Iron; Brand "Pioneer")
MARQUETTE—Pioneer Iron Co. (Charcoal Car-Wheel, Foundry, Malleable & Low-Phosphorus Pig Iron; Brands, "Excelsior," "Marquette")
NEGAUNEE—Cleveland-Cliff Iron Co. (See Cleveland, O.)

MINNESOTA.

DULUTH—Zenith Furnace Co. (Bessemer, Malleable & Foundry Pig Iron; Brand, "Zenith")

MISSOURI.

ST. LOUIS—St. Louis Blast Furnace Co. (Basic, Car-Wheel & Foundry Pig Iron; Brands, "Missouri" for Basic & "Carondelet" for Foundry)
Sligo Furnace Co. (Charcoal Car-Wheel, Foundry & Malleable Pig Iron; Brand, "Sligo")

NEW JERSEY.

BUTTZVILLE—Pequest Company (Foundry, Forge, Basic & High-Manganese Pig Iron; Brand, "Pequest")
ELIZABETH—Musconetcong Iron Works (Foundry, Forge & Malleable Bessemer Pig Iron; Brand, "Musconetcong")
OXFORD—Empire Steel & Iron Co. (See Catasauqua, Pa.)
SECAUCUS—Hudson Iron Co. (See New York City)
STANHOPE—Musconetcong Iron Works. (See Elizabeth, N. J.)
WHARTON—Wharton Steel Co. (See Philadelphia, Pa.)

NEW YORK.

BUFFALO—Buffalo Union Furnace Co. (Bessemer, Malleable & Foundry Pig Iron; Brand, "Buffalo")
Buffalo & Susquehanna Iron Co. (Foundry Pig Iron; Brand "Susquehanna")
Lackawanna Steel Co. (Bessemer Pig Iron; Brand, "Lackawanna")
New York State Steel Co. (Basic Pig Iron)
Wickwire Steel Co. (Basic Pig Iron; Brand, "Wickwire"), Chiefly Consumed by Wickwire Bros., Cortland, N. Y.
CHARLOTTE—Genesee Furnace Co. (See Cleveland, O.)

FRANKLIN SPRINGS—Franklin Iron Mfg. Co. (Foundry Pig Iron; Brand, "Franklin")
NEW YORK—Central Iron & Coal Co. (Foundry Pig Iron; Brand, "Tuscaloosa"), 37 Wall; Furnaces, Holt, Ala.
Embree Iron Co. (Malleable, Foundry, Forge, Low-Phosphorus & High-Manganese Pig Iron; Brand, "Embreeville"), 2 Rector; Furnaces, Embreeville, Tenn.
Hudson Iron Co. (Foundry & Forge Pig Iron; Brand, "Hudson"), 100 B'way; Furnaces, Secaucus, N. J.
New Jersey Zinc Co. (Spiegelisen from Zinc Residuum), 71 B'way; Furnaces, etc., South Bethlehem, Pa. & Newark, N. J.
NORTH TONAWANDA—Tonawanda Iron & Steel Co. (Foundry, Forge & Malleable Pig Iron; Brands, "Niagara," "Tonawanda Scotch")
PORT HENRY—Northern Iron Co. (See Philadelphia, Pa.)
TROY—Burden Iron Co. (Forge Pig Iron; Brand, "Burden")

OHIO.

BELLAIRE—Carnegie Steel Co. (See Pittsburgh, Pa.)
CANAL DOVER—Penn Iron & Coal Co. (Strong Foundry, Bessemer & Basic Open Hearth Pig Iron; Brands, "Tuscorawas," "Black Band," "Dover")

CLEVELAND—American Steel & Wire Co. (Bessemer & Basic Pig Iron. (See also Chicago, Ill. & Pittsburg, Pa.)
Cleveland-Cliff Iron Co. (Charcoal Car-Wheel, Foundry, Malleable & Low Phosphorus Pig Iron; Brand, "Pioneer"), Furnaces, Negaunee, Mich.
Cleveland Furnace Co. (Bessemer, Malleable Bessemer, Foundry & Basic Pig Iron; Brand, "Cleveland")
Carrigan, McKinney & Co.
Genesee Furnace Co. (Bessemer, Malleable & Gray Forge Pig Iron & Foundry Pig for Stove Plates & General Foundry use; Brand, "Genesee," Furnaces Charlotte, N. Y.)
Josephine Furnace & Coke Co. (Bessemer, Foundry & Basic Pig Iron; Brand, "Josephine"), Furnaces, Josephine, Pa.
Pickands, Mather & Co. (Bessemer, Basic, Foundry & Malleable Pig Iron; Brands, "Ella Foundry," "Ella Malleable"), Furnaces, West Middlesex, Pa.
Scottdale Furnace Co. (Bessemer, Malleable, Forge & Foundry Pig Iron; Brand, "Scottdale"), Furnaces, Scottdale, Pa.
Struthers Furnace Co. (Basic, Forge & Malleable Pig Iron; Brand, "Struthers"), Furnaces, Struthers, O.
Toledo Furnace Co. (Bessemer, Basic, Malleable & Foundry Pig Iron; Brand, "Toledo"), Furnaces, Toledo, O.
Upson Nut Co. (Bessemer, Foundry, Forge & Malleable Pig Iron; Brand, "Upson Scotch")
COLUMBUS—Bessie Ferro-Silicon Co. (Ferro-Silicon; Brands, "Bessie," "Pencost"), Furnaces, New Straitsville, O.
Carnegie Steel Co. (See Pittsburg, Pa.)
Columbus Iron & Steel Co. (Bessemer, Basic, Malleable & Foundry Pig Iron; Brand, "Buckeye")
CULBERTSON—Bird Iron Co. (Foundry, Forge & Malleable Pig Iron; Brand, "Bird")
GIRARD—Girard Iron Co. (Bessemer, Malleable Bessemer, Foundry & Forge Pig Iron; Brand, "Girard")
HAMILTON—Hamilton Iron & Steel Co. (Foundry Pig Iron)
HANGING ROCK—Hanging Rock Iron Co. (Foundry & Malleable Pig Iron; Brand, "Hamilton")
IRONTON—Belfont Iron Works (Bessemer, Foundry & Forge Pig Iron; Brand, "Belfont")
Ironton Iron Co. (Malleable Bessemer & Foundry Pig Iron; Brand, "Nellie")
Kelly Nail & Iron Co. (Bessemer Pig Iron; Brand, "Sarah")
Marting Iron & Steel Co. (Bessemer, Foundry & Malleable Pig Iron; Brand, "Nellie")
JACKSON—Globe Iron Co. (Foundry Pig Iron; Brand, "Globe," also Ferro-Silicon)
Jackson Iron & Steel Co. (High-Silicon Pig Iron; Brand, "Jisco")
Star Furnace Co. (Soft Foundry Pig Iron; Brand, "Star," also Ferro-Silicon)
LEETONIA—Salem Iron Co. (See Pittsburg, Pa.)
United Iron & Steel Co. (See Pittsburg, Pa.)
LORAIN—National Tube Co. of Ohio (Bessemer Pig Iron)
LOWELLVILLE—Ohio Iron & Steel Co. (Bessemer, Forge & Foundry Pig Iron; Brands, "The Mary," "The Mary Ohio Scotch")
MARTINS FERRY—Wheeling Steel & Iron Co. (See Wheeling, W. Va.)
MINGO JUNCTION—Carnegie Steel Co. (See Pittsburg, Pa.)
NILES—Carnegie Steel Co. (See Pittsburg, Pa.)
OAK HILL—Jefferson Iron Co. (Charcoal Foundry Pig Iron; Brand, "Anchor")
OLIVE FURNACE—McGugin Iron & Coal Co. (Charcoal Foundry Car-Wheel & Machinery Pig Iron; Brand, "Olive")
STEBENVILLE—Carnegie Steel Co. (See Pittsburg, Pa.)
La Belle Iron Works (Basic & Foundry Pig Iron, all Consumed by the Company)
SUPERIOR—Superior Portland Cement Co. (Charcoal Pig Iron for Cylinders, Pulleys, & all Kinds of Machinery; Brand, "Center")
TOLEDO—Toledo Furnace Co. (See Cleveland, Ohio)
WELLSTON—Wellston Steel & Iron Co. (Bessemer, Car-Wheel, Strong Foundry & Malleable Pig Iron)
YOUNGSTOWN—Andrews & Hitchcock Iron Co. (Bessemer, Gray Forge, Malleable, Bessemer & Foundry Pig Iron; Brands, "Hubbard," "Hubbard Scotch," Soft Foundry, & "Climax," Strong Foundry)

Brier Hill Iron & Coal Co. (Bessemer, Basic, Strong Foundry & Malleable Bessemer Pig Iron; Brand, "Brier Hill")
Carnegie Steel Co. (See Pittsburgh, Pa.)
Republic Iron & Steel Co. (See Pittsburgh, Pa.)
Youngstown Sheet & Tube Co. (Bessemer, Foundry, Malleable & Mill Pig Iron; Brand, "Alice")
Youngstown Steel Co. (Bessemer & Basic Pig Iron & Washed Metal for Steel Making)
ZANESVILLE—Carnegie Steel Co. (See Pittsburgh, Pa.)

PENNSYLVANIA.

ALBURTIS—Thomas Iron Co. (See Easton, Pa.)
ALBUQUERQUE—Jones & Laughlin Steel Co. (See Pittsburgh, Pa.)
ALLENTOWN—Allentown Rolling Mills. (See Phila., Pa.)
BELLEFONTE—Bellefonte Furnace Co. (Foundry & Forge Pig Iron; Brand, "Bellefonte")
Nittany Iron Co. (Foundry & Forge Pig Iron; Brand, "Nittany")
BESSEMER—Carnegie Steel Co. (See Pittsburgh, Pa.)
BIRDSBORO—Brooke, E. & G. Iron Co. (Basic Open Hearth Forged Pig Iron; Brand, "Brooke")
BRADDOCK—Carnegie Steel Co. (See Pittsburgh, Pa.)
CATASAUQUA—Empire Steel & Iron Co. (Foundry, Forge, Basic Open Hearth, Bessemer & Low-Phosphorus Pig Iron; Brands, "Crane," "Crane L. P.," "Crane Basic," "Henry Clay," "Macungie," "Oxford," "Topton")
CLAIRTON—Carnegie Steel Co. (See Pittsburgh, Pa.)
COLUMBIA—Susquehanna Iron Co. (Neutral Forge & Foundry Pig Iron; Brand, "Aurora")
DONORA—Carnegie Steel Co. (See Pittsburgh, Pa.)
DUBOIS—Adrian Furnace Co. (Foundry Pig Iron; Brand, "Adrian")
DUNBAR—Dunbar Furnace Co. (Foundry, Mill, Basic, Bessemer, Car-Wheel & Malleable Pig Iron)
DUQUESNE—Carnegie Steel Co. (See Pittsburgh, Pa.)
EARLSTON—Thropp, Jos. E. (Forge, Basic & Soft & Strong Foundry & Mill Pig Iron; Brand, "Everett," "Saxton")
EASTON—Thomas Iron Co. (Foundry, Forge, Basic Open Hearth & Bessemer Pig Iron; Brand, "Thomas")
ERIE—Perry Iron Co. (Foundry, Malleable & Bessemer Pig Iron; Brand, "Perry")
ETNA—Carnegie Steel Co. (See Pittsburgh, Pa.)
GLEN IRON—Church, Jno. T. (Charcoal Cold-Blast Pig Iron; Brand, "Glen-Iron")
HARRISBURG—Central Iron & Steel Co. (Bessemer, Malleable Bessemer, Foundry, Mill & Basic Open Hearth Pig Iron; Brands, "Paxton," "Silver Spring")
HELLERTOWN—Thomas Iron Co. (See Easton, Pa.)
HOKENDAUQUA—Thomas Iron Co. (See Easton, Pa.)
JOSEPHINE—Josephine Furnace & Coke Co. (See Cleveland, O.)
KITTINGING—Kittanning Iron & Steel Mfg. Co. (Grey Forge & Foundry Pig Iron; Brand, "Rebecca")
LEBANON—Lackawanna Steel Co. (See Buffalo, N. Y.)
Lebanon Valley Iron Co. (Bessemer, Low-Phosphorus & Foundry Pig Iron; Brand, "Lebanon Valley")
Pennsylvania Steel Co. (See Phila., Pa.)
LEESPORT—Leesport Furnace Co. (Foundry & Forge Pig Iron; Brand, "Leesport")
McKEESPORT—National Tube Co. (See Pittsburgh, Pa.)
MACUNGIE—Empire Steel & Iron Co. (See Catasauqua, Pa.)
MAUCH CHUNK—Carbon Iron & Steel Co. ("Carbon" Foundry Iron, "Parry" Bessemer Iron & "Viking" Low-Phosphorus Pig Iron), Furnaces, Parryville, Pa.
MIDLAND—Midland Steel Co. (See Pittsburgh, Pa.)
MILESBERG—McCoy-Linn Iron Co. (Charcoal Forge & Foundry Pig Iron; Brand, "Hecla")
NEW CASTLE—Carnegie Steel Co. (See Pittsburgh, Pa.)
Republic Iron & Steel Co. (See Pittsburgh, Pa.)
NEWPORT—Juniata Furnace & Foundry Co. (See Phila., Pa.)

PARRYVILLE—Carbon Iron & Steel Co. (See Mauch Chunk, Pa.)
PHILADELPHIA—Allentown Rolling Mills (Foundry & Grey Forge Pig Iron; Brand, "A. R. Mills")
Cambria Steel Co. (Bessemer & Basic Pig Iron, Arcade bldg. Works & Furnaces, Johnstown, Pa.)
Cranberry Furnace Co. (Low-Phosphorus Pig Iron)
Heckscher, Richard & Sons Co. (Neutral Mill, Foundry, Malleable, Bessemer & Basic Open Hearth Pig Iron; Brand, "Swede"), Manhattan bldg; Furnaces, Swedeland, Pa.
Juniata Furnace & Foundry Co. (Foundry Pig Iron; Brands, "Marshall," "Juniata"), Girard av bel. Front; Furnaces, Newport, Pa.
Northern Iron Co. (Basic, Malleable, Foundry & Bessemer Pig Iron; Brand "Essex"), Girard Trust bldg; Furnaces, Port Henry, N. Y.
Pennsylvania Steel Co. (Bessemer, Low-Phosphorus & Basic Pig Iron), Girard bldg
Pulaski Iron Co. (High-Grade Foundry Pig Iron; Brand, "Pulaski"), Furnaces, Pulaski City, Va.
Warwick Iron & Steel Co. (Foundry, Neutral Mill & Basic Pig Iron; Brand, "Warwick"), Girard Trust bldg
Wharton Co. (Basic, Neutral Foundry, Malleable & Forge Pig Iron; Brand, "Wharton"), 421 Chestnut; Furnaces, Wharton, N. J.
PITTSBURG—AMERICAN STEEL & Wire Co. (Bessemer & Basic Iron). (See also Chicago, Ill. & Cleveland, O. (See adv. Index, end of book.)
Byers, A. M. Co. (Bessemer, Malleable Bessemer, Foundry & Forge Pig Iron), 233 Water
Carnegie Steel Co. (Bessemer, Basic, Forge, Foundry, Mill & Low-Phosphorus Pig Iron)
Carter Iron Co. (Bessemer, Basic & Foundry Pig Iron). Furnaces, Padon City, W. Va.
Clinton Iron & Steel Co. (Bessemer, Forge & Special Car-Wheel Pig Iron, and an exceedingly Soft & Fluid Foundry Iron for Light & Fine Machinery Castings; Brands, "Hector," "Clinton")
Jones & Laughlin Steel Co. (Bessemer & Basic Open Hearth Pig Iron; Brand, "Soho," all Consumed by the Company)
Midland Steel Co. (Bessemer, Basic & Foundry Pig Iron), Furnaces, Midland, Pa.
National Tube Co. (Bessemer Pig Iron)
Republic Iron & Steel Co. (Bessemer, Mill & Foundry Pig Iron)
Salem Iron Co. (Bessemer, Malleable Bessemer, Foundry & Forge Pig Iron; Brands, "Seneca," "Allegheny," "Grafton"), Furnaces, Leetonia, Ohio
Shenango Furnace Co. (Bessemer, Basic & Malleable Pig Iron; Brand, "Shenango"), Furnaces, Sharpsville, Pa.
United Iron & Steel Co. (Bessemer & Foundry; Brands, "Fannie," "Fort Pitt," "Special Car-Wheel & Gray Forge Pig Iron; Brand, "Cherry Valley"), Furnaces, Leetonia, O. & Middlesex, Pa.
POTTSTOWN—Warwick Iron & Steel Co. (Foundry, Neutral Mill & Basic Pig Iron; Brand, "Warwick")
PUNXSUTAWNEY—Punxsutawney Iron Co. (Foundry & Forge Pig Iron; Brand, "Punx")
RANKIN—Carnegie Steel Co. (See Pittsburgh, Pa.)
READING—Empire Steel & Iron Co. (See Catasauqua, Pa.)
Reading Iron Co. (Foundry & Forge Pig Iron)
RIDDLESBURG—Colonial Iron Co. (Foundry & Forge Pig Iron, Specialty a Strong Soft Fluid Foundry Pig Iron; Brands, "Norway," "Colonial")
ROBESONIA—Robeson Iron Co. (Low-Phosphorus Pig Iron; Brand, "Robesonia")
ROCKHILL FURNACE—Rockhill Furnace Co. (Foundry & Forge Pig Iron; Brand, "Rockhill")
ROLAND—Eagle Iron Co. (Charcoal Pig Iron for Rolls & Dies)
SANTON—Thropp, Jos. E. (See Earlston, Pa.)
SCOTSDALE—Scottdale Furnace Co. (See Cleveland, O.)
SCRANTON—Temple Iron Co. (Foundry & Forge Pig Iron; Brand, "Temple")
SHARON—Carnegie Steel Co. (See Pittsburgh, Pa.)
Republic Iron & Steel Co. (See Pittsburgh, Pa.)
Stewart Iron Co. (Bessemer, Low-Phosphorus, Foundry, Basic & Forge Pig Iron; Brand, "Stewart")

SHARPSVILLE—Claire Furnace Co. (Bessemer, Malleable & Foundry Pig Iron)
Sharpsville Furnace Co. (Bessemer & Malleable Bessemer, Pig Iron; Brand, "Sharpsville")
Shenango Furnace Co. (See Pittsburgh, Pa.)
Youngstown Sheet & Tube Co. (See Youngstown, O.)
SHERIDAN—Berkshire Iron Works (Foundry Pig Iron; Brand, "Sheridan")
SOUTH BETHLEHEM—Bethlehem Steel Co. (Bessemer, Basic, Low-Phosphorus & Foundry Pig Iron), All Consumed by the Company
New Jersey Zinc Co. (Spiegelstein from Zinc Residue. (See New York City)
STEELTON—Pennsylvania Steel Co. (See Phila., Pa.)
SWEDELAND—Heckscher, Richard & Sons Co. (See Phila., Pa.)
TOPTON—Empire Steel & Iron Co. (See Catasauqua, Pa.)
WEST MIDDLESEX—Pickands, Mather & Co. (See Cleveland, O.)
United Iron & Steel Co. (See Pittsburgh, Pa.)

TENNESSEE.

BEAR SPRING—Dover Iron Co. (Charcoal Low-Phosphorus Pig Iron, for Chilled Rolls, etc.; Brand, "Dover")
BRISTOL—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
CHATTANOOGA—Citico Furnace Co. (Forge & Foundry Pig Iron; Brand, "Citico")
Eagle Iron Co. (Charcoal Car-Wheel Pig Iron; Brand, "Rome"), Furnaces, Attalla, Ala.
Southern Steel Co. (See Birmingham, Ala.)
CLARKSVILLE—Red River Furnace Co. (Foundry, High-Silicon & Tennessee-Scotch Pig Iron; Brands, "Helen," "Red River")
DAYTON—Dayton Coal & Iron Co. (Foundry & Forge Pig Iron; Brand, "Dayton")
EMBREEVILLE—Embree Iron Co. (See New York City)
JOHNSON CITY—Cranberry Furnace Co. (Low-Phosphorus Pig Iron; Brand, "Cranberry")
LA FOLLETTE—La Follette Coal, Iron & Railway Co. (Foundry & Forge Pig Iron; Brand, "La Follette Foundry")
NAPIER—Napier Iron Works. (See Nashville, Tenn.)
NASHVILLE—Bon Air Coal & Iron Co. (High-Phosphorus, High-Silicon & Foundry Pig Iron; Brand, "Mannie") Furnaces, Mannie, Tenn.
Napier Iron Works (Foundry Pig Iron; Brand, "Napier"), Furnaces, Napier, Tenn.
Standard Iron Co. (Foundry & Soft Pig Iron; Brand, "Standard"), Furnaces, Goodrich, Tenn.
ROCKDALE—Rockdale Iron Works (Ferro-Phosphorus & Foundry, Forge & Basic Pig Iron; Brand, "Rockdale")
ROCKWOOD—Roane Iron Co. (Foundry & Forge Pig Iron; Brand, "Rockwood")
SOUTH PITTSBURG—Tennessee Coal, Iron & R. R. Co. (See Birmingham, Ala.)

TEXAS.

JEFFERSON—Jefferson Iron Co. (Foundry Pig Iron; Brand, "Jefferson")
RUSK—State of Texas, (Owner) (Foundry & Forge Pig Iron; Brand, "Lone Star")

VIRGINIA.

BUENA VISTA—Allegheny Ore & Iron Co. (See Clifton Forge, Va.)
CLIFTON FORGE—Allegheny Ore & Iron Co. (High Grade Foundry, Forge, Basic & Chilled-Cast Basic Pig Iron for Car Wheels; Brands, "Allegheny," "Buena Vista," "Gem")
FOSTERS FALLS—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
GLEN WILTON—Princess Furnace Co. (Soft, Strong & Very Fluid Foundry Pig Iron; Brand, "Princess")
GOSHEN—Goshen Iron Co. (Foundry, Basic & Forge Pig Iron; Brands, "Victoria," "Goshen")
GRAHAM—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
IVANHOE—Ivanhoe Furnace Co. (Bessemer, Foundry & Basic Pig Iron; Brand, "Ivanhoe")
LIBERTY FURNACE—Shenandoah Iron & Coal Co. (Charcoal Car-Wheel Pig Iron; Brand, "Liberty, 1812")
LONGDALE—Longdale Iron Co. (Basic Pig Iron Cast in Chills; Brand, "Longdale")

LOW MOOR—Low Moor Iron Co. (Foundry Pig Iron; Brands, "Low Moor," "Covington")
MAX MEADOWS—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
PULASKI CITY—Pulaski Iron Co. (See Phila., Pa.)
 Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
RADFORD—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
REED ISLAND—Virginia Iron, Coal & Coke Co. (See Roanoke, Va.)
ROANOKE—Virginia Iron, Coal & Coke Co. (Foundry, Forge, Basic & Cold Blast Charcoal. Pig Iron for Chilled Rolls, etc.; Brands, "Bristol," "Crozer," "Dora," "Graham," "Max Meadows," "Radford," "Reed Island," "Watts")
 West End Furnace Co. (Foundry, Basic & Forge Pig Iron; Brand, "Roanoke")
SHENANDOAH—Allegheny Ore & Iron Co. (See Clifton Forge, Va.)

WASHINGTON.

IRONDALE—Irondale Steel Co. (Charcoal Foundry; Low-Phosphorus Bessemer Pig Iron for Steel Castings, etc.)

WEST VIRGINIA.

BENWOOD National Tube Co. (See Pittsburgh, Pa.)
PADEN CITY—Carter Iron Co. (See Pittsburgh, Pa.)
WHEELING—Wheeling Steel & Iron Co. (Bessemer & Grey Forge Pig Iron; Brand, "Belmont," "Martin's Ferry," "Top Mill")

WISCONSIN.

MAYVILLE—Northwestern Iron Co. (See Milwaukee, Wis.)
MILWAUKEE—Illinois Steel Co. (See Chicago, Ill.)
 Northwestern Iron Co. (Bessemer, Malleable Bessemer & Foundry Pig Iron; Brands, "Snyder," "Gertrude")
 Thomas Furnace Co. (Foundry, Malleable Bessemer & Standard Bessemer; Brand, "Thomas")
SPRING VALLEY—Spring Valley Iron & Ore Co. (See Chicago, Ill.)

Blasting Fuse, Caps, Etc.

(See also Batteries, Blasting)

Aetna Powder Co., 143 Dearborn, Chicago, Ill.
 California Cap Co. (And Electrical Exploders, etc.), 418 California, San Francisco, Cal.
DU PONT, E. I., de NEMOURS POW-
 der Co., Wilmington, Del. (See adv. index & branch offices, end of book)
 Ensign, Bickford & Co., Simsbury, Conn., & San Francisco, Cal.
 Maswrite Explosive Co. (Explosives), Sharon, Pa.
 Metallic Cap Mfg. Co., 261 B'way, New York
 Rendrock Powder Co., 11 B'way, New York
 Standard Fuse Co., Winfield Junction, N. Y.
 Star Electric Fuse Works ("Star" Exploders), Wilkes-Barre, Pa.

***Bleachery Eyes (Rubber)**

BOSTON BELTING CO., 260 Devon-
 shire, Boston, Mass. (See adv. index & branch offices, end of book)
PENNSYLVANIA RUBBER CO., Jean-
 nette, Pa. (See adv. index, end of book)

Blind Adjusters

(See Window Blind Adjusters)

Blind Awning Fixtures

(See Awning Fixtures, Blind)

Blind Tenons

Gleason, E. P. Mfg. Co. ("Holts"), 37 Murray, New York

Blinds (Inside Folding)

Currier, E. Bradley Co., 119 W 23d, New York
 Foster, Munger Co. (For the Trade Only), 20th & S Sangamon, Chicago, Ill.
 Hyde-Murphy Co., Ridgway, Pa.
 Morgan Co., Factory & General Offices: Oshkosh, Wis.
 Paine Lumber Co. (For the Trade Only), Oshkosh, Wis., & 1 Madison av, New York

Palmer, Fuller & Co. (For the Trade Only), 2244 Lumber, Chicago, Ill.
 Radford Sash & Door Co. (For the Trade Only), 190 W 22d, Chicago, Ill.
 Roach & Musser Sash & Door Co. ("Victor"), Muscatine, Iowa
 Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl, Chicago, Ill.
 Watson Mfg. Co., Jamestown, N. Y.
 Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.

Blinds (Inside Sliding)

Bossert, Louis & Son, Grand & Newton Creek, Brooklyn, N. Y.
 Burlington Venetian Blind Co., Burlington, Vt.
 Currier, E. Bradley Co., 119 W 23d, New York
 Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Iowa
 Curtis & Bartlett Co. (Wholesale Mfrs.), Lincoln, Neb.
 Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
 Dodge, H. B. & Co. (Mfrs. Ag'ts), 108 Lasalle, Chicago, Ill.
 Kane Sliding Blind Co., Kane, Pa.
 Monroe Screen, Blind & Partition Co., Lima, O.
 Phoenix Sliding Blind Co., Phoenix, N. Y.
 Roach & Musser Sash & Door Co. ("Victor," Wholesale Mfrs.), Muscatine, Ia.
 Union Blind & Ladder Co. (Hill's), 328 Howard, San Francisco, Cal.
 Watson Mfg. Co. (Spring & Weighted), Jamestown, N. Y.
 Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.

Blinds (Rolling Window)

Flexifold Door & Shutter Co. ("Flexifold"), 10 E Worcester, Worcester, Mass.

Blinds (Venetian)

Adams-Monroe Mfg. Co. (Victoria), Lynchburg, Va.
 Baltimore Blind Co. (Outside), 2210 E North av, Baltimore, Md.
 Bostwick-Goodell Co., Norwalk, O.
 Burlington Venetian Blind Co., Burlington, Vt.
 Curtis & Bartlett Co. (Wholesale Mfrs.), Lincoln, Neb.
 Curtis & Yale Co. (Wholesale Mfrs.), Wausau & Milwaukee, Wis., & Minneapolis, Minn.
 Dodge, H. B. & Co. (Mfrs. Ag'ts), 108 Lasalle, Chicago, Ill.
 Foster, Munger & Co. ("The Pease," Wholesale Only), 20th & Sangamon, Chicago, Ill.
 Monroe Screen Blind & Partition Co., Lima, O.
 Smith, John A., 456 S B'way, Los Angeles, Cal.
 Union Blind & Ladder Co., 328 Howard, San Francisco, Cal.
 Watson Mfg. Co., Jamestown, N. Y.
 Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
WILSON, JAMES G. MFG. CO., Chief
 Office, 3 W 20th, New York. Mills & Factory: Norfolk, Va. (See adv. index, end of book)

Blocking (Adjustable)

Le Count, Wm. G., South Norwalk, Conn.

Blocks (Broom or Brush)

Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
 Holgate Bros. Co. (Whitewash Blocks, etc.), Kane, Pa.
 Mahle Boring Machine Co., Corry, Pa.
 Mahle, C. A. & Son (Bored & Shaped for Horse, Scrub, Stove, Shoe Brushes, etc., & for Street & Stable Push Brooms, also for Steel Wire Brushes, Brooms, etc.) Corry, Pa.
 Parkersburg Mill Co., Parkersburg, W. Va.
 Peake, Henry (For Street Sweeping Brooms, etc.), Peabrook, N. Y.
 Petoskey Block & Mfg. Co. (Brush Blocks only, all kinds, Turned & Shaped), Petoskey, Mich.
 Piqua Handle & Mfg. Co., Piqua, O.

Blocks (Butchers')

(See also Butchers' Machinery & Supplies)

Boos, John & Co. (Inc.), Effingham, Ill.
 Bossert, Louis & Son, Grand & Newtown Creek, Brooklyn, N. Y.
 Dumranf & Wicke, 406 E 102d, New York
 Hill, C. V. & Co., Trenton, N. J.
 Racine Refrigerator & Fixture Co., Racine, Wis.
 Wilson Mfg. Co. (Octagon), Appleton, Wis.

Blocks (Chain Hoisting)

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.
CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end of book)
CHISHOLM & MOORE MFG. CO.,
 49th & Lake, Cleveland, O. (See adv. index, end of book)
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
 Dederick's P. K. Sons, Albany, N. Y.
 Dicke Tool Co., Downers Grove, Ill.
DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
 Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.
IRVING MFG. & TOOL CO. (J. F.
 McCoy, Prop.), 169 Chambers, New York. (See adv. index, end of book)
 Jackson Mfg. Co., Harrisburg, Pa.
 Reading Chain Block Works ("Reading" Multiple Gear), Reading, Pa.
 Stuebner, G. L., Long Island City, N. Y.
 Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

Blocks (Deck & Snatch)

(See Blocks, Tackle)

Blocks (Derrick Foot)

DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
 Northern Engineering & Supply Co., 246 Water, New York

Blocks (Differential Chain)

CHISHOLM & MOORE MFG. CO.
 (Direct Differential), 49th & Lake, Cleveland, O. (See adv. index, end of book)
COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)
DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
 Northern Engineering & Supply Co., 246 Water, New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Blocks (Dock)

DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
IRVING MFG. & TOOL CO. (J. F.
 McCoy, Prop.), 169 Chambers, New York. (See adv. index, end of book)
 Northern Engineering & Supply Co., 246 Water, New York

Blocks (Fire Box)

(See Cupola Linings or Blocks; also Locomotive Tile)

Blocks (Fuse)

(See Cut-Outs Various Kinds)

Blocks (Hollow Building)

(See also Blocks, Hollow Concrete Building)
 Akron Vitified Clay Mfg. Co., Akron, O.
 American Brick & Tile Co., Mason City, Ia.
 American Clay Products Co., 138 Washington, Chicago, Ill.
 American Sewer Pipe Co., Bessemer bldg., Pittsburg, Pa.
 Big Four Clay Co. (Blue Granite, Rock Face), Maivern, O.
 Blakeslee Concrete Block & Machine Co. (Concrete), Columbus, O.
 Boone Brick Tile & Paving Co., Boone, Ia.
 Canton Hollow Block Co., Canton, O.
 Canton Tile Hollow Brick Co. (Plain & Rock-Faced), New Bethlehem, Pa.
CARTER, BLACK & AYRES (Inc.),
 (Clay, Mfrs. Agts), 1 Madison av, New York. (See adv. index, end of book)
 Concrete Stone Co., Canton, O.
 Diefenbacher, Philip, Maillon, O.
 Downs, Canton, O.
 Eureka Construction Co. ("Phoenix" Hollow Tile), 287 4th av, New York
 Evansville Pressed Brick Co., Evansville, Ind.
 Fix, S. S., Canton, O.
 Greer-Beatty Clay Co., Magnolia, O.

Indiana Paving Brick & Block Co. (W. W. Winslow), Indianapolis, Ind. & Brazil, Ind.
Iowa Brick Mfg. Co., Des Moines, Ia.
Louisville Brick & Tile Co., Louisville, O.
McNutt, Lewis, Brazil, Ind.

Markley, Geo. J., Mineral City, O.
Mason City Brick & Tile Co., Mason City, Ia.
Mason City Clay Works, Mason City, Ia.
Myers Clay Mfg. Co., Toronto, Ont.

NATIONAL FIRE PROOFING CO.,
Fulton bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Palmer, H. S., 1450 Binney, Washington, D. C.
Penna. Fireproofing Co., St. Marys, Pa.
Pittsburg-Buffalo Co., Frick bldg, Pittsburgh, Pa.
Pittsburg Sewer Pipe & Conduit Co., Pittsburg, Kans.
Segner, E. C., Masillon, O.
Shoof, A. H., Canton, O.
Sioux City Brick & Tile Works, Sioux City, Iowa

Straight & Campbell Brick & Tile Co., Ft. Dodge, Ia.
THOMAS, E. H. (Mfrs. Agent), 1125 B'way, New York

TRUSSED CONCRETE STEEL CO.,
Trussed Concrete bldg, Detroit, Mich.
(See adv. index & branch offices, end of book)
United States Fire Proofing Corporation, 326 4th av, Pittsburgh, Pa.
Wabash Clay Co., Veedersburg, Ind.
Whiteacre Fire Proofing Co., Waynesburg, O.

Blocks (Hollow Concrete Building)

AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)

Blakeslee Concrete Block & Machine Co., Columbus, O.

Building Block Co., Minneapolis, Minn.
Cement Ventilating Stone Co., Columbus, O.
Cleveland Concrete Building Block Co., Cleveland, O.

Durolithic Co., Builders' Ex bldg, Buffalo, N. Y.
Eilbacher, Chas., 32 4th, Elizabeth, N. J.
Frank, Frederick, Lancaster, Pa.
Hollidaysburg Mfg. Co., Hollidaysburg, Pa.
Keller, Jacob, North Judson, Ind.
METROPOLITAN STONE CO., 1 Madison, New York

Morris Hollow Concrete & Construction Co., Granite City, Ill.

National Cement Stone Co., York, Pa.
Rothermund, Henry, Martins Ferry, O.
Southard, J. E. & Co., Michigan City, Mich.
Standard Stone Co. of America, 140 Nassau, New York

*Blocks (Hollow Tile)

MAURER, HENRY & SON, 420 E 23d, New York; Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. front inside cover)

*Blocks (Hook)

MORGAN ENGINEERING CO. (160 Tons, etc.), Alliance, O. (See adv. index & branch offices, end of book)

Blocks (Lineman's Pulley)

(See also Pulley Blocks for Electric Light Poles)
Burr Mfg. Co. (Steel), Cleveland, O.
Dick, C. H. Tool Co., Downers Grove, Ill.
Ferdinand, L. W. & Co., Boston, Mass.
Klein, Mathias & Sons, 78 W Van Buren, Chicago, Ill.

Blocks (Outlet)

Chase-Shawmut Co. ("Shawmut"), Newburyport, Mass.

Blocks (Pillar)

(See Power Transmitting Machinery)

Blocks (Rail)

Arthur, W. H. ("Arthur" Hump), Stamford, Conn.
Mack Mfg. Co. ("Arthur" Hump), Land Title bldg, Phila., Pa.

*Blocks (Sheave, for Derricks)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

Blocks (Switch)

Armstrong, Fred'k A., 348 Court, Brooklyn, N. Y.

Blocks (Tackle)

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.

Burr Mfg. Co., 2108 Superior av, N W, Cleveland, O.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Cleveland Block Co., 1173 W 11th, N W, Cleveland, O.

Coleman, Walter & Sons, Providence, R. I.

Columbia Steel Co. ("Skookum" Triple Line Cast Steel), Portland, Ore.

Cottingham, John C. & Sons Co., 118 N Delaware av, Phila., Pa.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

Dubuar, J. A. Mfg. Co. (Wood), Northville, Mich.

Edwards, H. D. & Co., Detroit, Mich.

Eureka Tackle Block Mfg. Co. (All Kinds), 442 E Front, Cincinnati, O.

Fulton Iron Works (Sure Grip Steel), Detroit, Mich.

Hartz, H. V. Co. (Steel), Cleveland, O.

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

IRVING MFG. & TOOL CO. (J. F. McCoy, Prop.) (All Kinds), 169 Chambers, New York. (See adv. index, end of book)

Jackson, J. S. & Son ("Roller Bearing"), Bath, Me.

Lane Bros. Co. (Automatic Lock), Poughkeepsie, N. Y.

Laughlin, Thos., Co., Portland, Me.

McMillan's, W. H. Sons, 153 South, New York

Maryland Steam Block & Pump Works ("Acorn"), Baltimore, Md.

Merriman Bros., 696 E 1st, S. B., Boston, Mass.

Milwaukee Hay Tool Co. (Principally for Hay Tools), Layton Park, Milwaukee, Wis.

Patterson, W. W. Co., 54 Water, Pittsburgh, Pa.

Pittsburg Block & Mfg. Co. (Wood or Steel Shell), 816 South av, Allegheny, Pa.

Rousseau, F. X. Machinery Co., Detroit, Mich.

Rousseau, F. X. Mfg. Co., 564 Porter, Detroit, Mich.

Stowell Mfg. & Fdy Co., South Milwaukee, Wis.

Swett, A. L. Iron Works, Medina, N. Y.

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

Union Hardware Co., Torrington, Conn.

Vulcan Iron Works ("Bouse"), Seattle, Wash.

WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Walton Self Locking Block Co. (Self Locking), 404 Atlantic av, Boston, Mass.

Western Block Co. (Wood, Wrought Iron & Steel), Lockport, N. Y.

Wilcox, Crittenden & Co., Middletown, Conn.

Blocks (Wire Rope)

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch offices, end of book)

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.

BRODERICK & BASCOM ROPE CO. (Also Manila Rope), N Main, St. Louis, Mo. (See adv. index, end of book)

CARLIN'S, THOS. SONS CO., 1610 River av (North Side), Pittsburgh, Pa. (See adv. index, end of book)

Columbia Steel Co. ("Skookum" Triple Line Cast Steel), Portland, Ore.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

Hazard Mfg. Co., Wilkes-Barre, Pa.

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

IRVING MFG. & TOOL CO. (J. F. McCoy, Prop.), 169 Chambers, New York. (See adv. index, end of book)

Jackson, S. J. & Son ("Roller Bearing"), Bath, Me.

Laughlin, Thos., Co., Portland, Me.

MACOMBER & WHYTE ROPE CO.,
266 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)

Merriman Bros., 696 E 1st, S. B., Boston, Mass.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

Patterson, W. W. Co., 54 Water, Pittsburgh, Pa.

Pittsburg Block & Mfg. Co., 816 South av, Allegheny, Pa.

Terry & Tench Co. (Inc.), Lexington av & 131st, New York

Vulcan Iron Works ("Bouse"), Seattle, Wash.

Western Block Co., Lockport, N. Y.

Blocks (Wrecking)

Laughlin, Thos. Co. (With Lasbling Shackles), Portland, Me.

Blocks (Yacht)

Coleman, Walter & Sons, Providence, R. I.

Laughlin, Thos. Co., Portland, Me.

Wilcox, Crittenden & Co. (Brass), Middletown, Conn.

Blooms (Charcoal Iron)

Coatesville Rolling Mill Co. (Product all used by the Company), Coatesville, Pa.

Curtin Forge Co. (For Boiler Plates, Tubes, Rivets & Screw Rods, etc.), Roland, Pa.

Dover Forge & Iron Co. (Blooms), Canal Dover, Ohio

Lucknow Iron & Steel Co. (Blooms for Boiler Plates, Sheet Iron, Wire, Tube, Skelp & Tinplates), Harrisburg, Pa.

McCoy-Linn Iron Co. (Blooms), Milesburg, Pa.

Sizer Forge Co. (Billets, Blooms & Slabs for Boiler Tubes, etc.), Buffalo, N. Y.

Spring City Bloom Works (Billets, Blooms & Slabs for Boiler Tubes & Sheets), Real Estate Trust bldg, Phila., Pa. Works: Spring City, Pa.

*Blow Cases

CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

Blow Pipes & Brazing Apparatus

AMERICAN GAS FURNACE CO. (Gas), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

Baylis Company, 140 Washington, New York

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)

Best Light Co., Canton, O.

Bockel, Wm. & Co., 518 Vine, Phila., Pa.

Braunsdorf-Mueller Co., Elizabeth, N. J.

Haines & Co., 747 W Lake, Chicago, Ill.

Hauck Mfg. Co., 140 Cedar, New York

Hawkrige, S., Hoboken, N. J.

Inter-State Blow Pipe Co., Mobile, Ala.

Kiechler Mfg. Co., Cincinnati, O.

MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

National Blow Pipe & Mfg. Co., New Orleans, La.

National Cement & Rubber Mfg. Co., Toledo, O.

Savannah Blow Pipe & Exhaust Co., Savannah, Ga.

Shreveport Blow Pipe & Sheet Iron Works, Shreveport, La.

Stortz, Jno. & Son (Plumbers'), 210 Vine, Phila., Pa.

Turner Brass Works, Sycamore, Ill.

Blower Mfrs.

(See also Sub-classifications)

Allington & Curtis Mfg. Co., Saginaw, Mich.

American Blower Co. ("Sirocco"), 1400 Russell, Detroit, Mich.

AMERICAN GAS FURNACE CO. (Positive Pressure), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

Banister, A. W., 35 Wareham, Boston, Mass.

Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.

Bayley Mfg. Co., Milwaukee, Wis.

BEGGS, JAMES & CO. (Mfrs. Agts.), 109 Liberty, New York. (See adv. index, end of book)

Bleakly Fan Co., Buffalo, N. Y.

Buffalo Forge Co., Buffalo, N. Y.

CAMERON MACHINE CO. (Positive Pressure), 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Canedy-Otto Mfg. Co. ("Western Chief" Power), Chicago Heights, Ill.

Champion Blower & Forge Co., Lancaster, Pa.

Chase Turbine Mfg. Co. (Fan), Orange, Mass.

Connersville Blower Co. (Rotary), Connersville, Ind.

Cornell, J. B. & J. M. Co. ("The Poole"), 26th & 11th av, New York
 Crowell, Gilmer ("Crowell" Positive Pressure), 296 Taaffe pl., Brooklyn, N. Y.
 Crown Drilling Machine Co. (Steam Driven), Akrou, O.
 De Laval Steam Turbine Co., Trenton, N. J.
 Dixie Mfg. Co., Baltimore, Md.
DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)
 Electric Blower Co. ("Marvel"), Newton Center, Mass.
 Exeter Machine Works, Exeter, N. H., & 32 Oliver, Boston, Mass.
 Fuller Co., 1565 Russell, Detroit, Mich.
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
 Green Fuel Economizer Co., General Office & Works: Matteawan, N. Y.
 Hartford Blower Co., Hartford, Conn.
 Howard & Morse ("Blackman" & Duplex Cone), 45 Fulton, New York
 Humphrey Machine Co. (Fan), Keene, N. H.
 Indiana Fan Co. ("Indiana"), Indianapolis, Ind.
 Link, E. M. Machinery Co., Erie, Pa.
 Massachusetts Fan Co., Watertown, Mass.
 Meadon, T. J. Son, 51 Greenpoint av, Brooklyn, N. Y.
 Miller, J. K. Co., Seattle, Wash.
 Monarch Engineering & Mfg. Co. (Low Pressure), Baltimore, Md.
 National Blower Works, Milwaukee, Wis.
 Natural Power Co., Kirkwood, Mo.
 New England Ventilating & Heating Co., 926 Manton av, Providence, R. I.
 New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Factory, Bucyrus, O.
 Ohio Blower Co., 43 Michigan, Cleveland, O.
 Pacific Blower & Heating Co., San Francisco, Cal.
 Roth Bros. & Co. ("Roth"), Loomis & Adams, Chicago, Ill.
 Potts, David H. (Fan), Lancaster, Pa.
 Roots, P. H. & F. M. Co. (Rotary), Connersville, Ind.
 St. Louis Blower & Heater Co., 1628 N 9th, St. Louis, Mo.
 Standard Blower & Metal Mfg. Co., Atlanta, Ga.
 Sterling Blower & Pipe Mfg. Co., Hartford, Conn.
 Sturtevant, B. F. Co., Hyde Park, Mass.
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)
 Wilbraham-Green Blower Co. ("Green" Rotary Pressure), Pottstown, Pa.
 Wing, L. J. Mfg. Co. ("Typhoon" Turbine Blower), 90 West, New York

Blowers (Acid)

Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Binford, Boston, Mass.
 Guld & Garrison, Kent av & S 10th, Brooklyn, N. Y.
 Titusville Iron Co., Titusville, Pa.

Blowers (Boiler Flue)

(See Cleaners, Boiler Flue or Tube; Soot Blowers & Suckers)

Blowers (Cycloidal)

Power & Mining Machinery Co. (Horizontal), Cudahy, Wis.

Blowers (Cyclone)

Stauffer, Geo. E. (Kitson's for Burning Culm & Slack), E Stroudsburg, Pa.

Blowers (Electric)

Electric Blower Co. ("Marvel"), Newton Center, Mass.
 Emerson Electric Co., St. Louis, Mo.
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Green Fuel Economizer Co., General Office & Works: Matteawan, N. Y., & 1218 West Street bldg, New York
 New Era Electric Co. ("New Era" for Blacksmiths), 942 W Lake, Chicago, Ill.
 New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
 Sprague Electric Co., 527 W 34th, New York
 Sturtevant, B. F. Co., Hyde Park, Mass.

Blowers (Forge)

American Blower Co. ("Sirocco"), 1400 Russell, Detroit, Mich.
 Buffalo Forge Co., Buffalo, N. Y.
 Champion Blower & Forge Co., Lancaster, Pa.

Champion Tool Co. ("20th Century"), Meadville, Pa.
 Cleveland Steam Gauge Co. ("Watson"), 1619 Merwin, N W, Cleveland, O.
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
 Green Fuel Economizer Co., General Office & Works: Matteawan, N. Y., & 1218 West Street bldg, New York
 National Blower Works, Milwaukee, Wis.
 New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Roots, P. H. & F. M. Co., Connersville, Ind., & 120 Liberty, New York
 Sturtevant, B. F. Co., Hyde Park, Mass.

Blowers (Furnace)

Beach-Russ Co., Long Island City, N. Y.
DONEGAN & SWIFT (Steam, "Swift's Economy"), 6 Murray, New York. (See adv. index, end of book)
 Schutte & Koertling Co., 1251 N 12th, Philadelphia, Pa.
 Scranton Steam Pump Co. ("Union"), Scranton, Pa.

Blowers (Gas)

(See Exhausters, Gas)

Blowers (Hand)

(See also Forges, Portable)

Buffalo Forge Co., Buffalo, N. Y.
 Canedy-Otto Mfg. Co. ("Royal"), Chicago Heights, Ill.
 Champion Blower & Forge Co., Lancaster, Pa.
 Comstock, Geo. S. ("Tornado" Geared Blower), Mechanicsburg, Pa.
 Foos Mfg. Co. (Blacksmiths'), Springfield, O.
 National Blower Works, Milwaukee, Wis.
 Roots Forge Co., Buffalo, N. Y.
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Star Forge Co. (Geared), Buffalo, N. Y.
 Sturtevant, B. F. Co., Hyde Park, Mass.

Blowers (Jet)

Eynon-Evans Mfg. Co. (Steam Jet for Gas Producers, etc.), 1519 Clearfield, Phila., Pa.
 McClave-Brooks Co. ("McClave's" Argand Steam Blower), Scranton, Pa.
 Schutte & Koertling Co. (Steam Jet Blowers & Exhausters), 1251 N 12th, Phila., Pa.
 Thacher, Geo. H. & Co. ("Coe's"), Albany, N. Y.

*Blowers (Motor Driven)

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Blowers (Organ)

Backus Water Motor Co., Newark, N. J.
 Beach-Russ Co., Long Island City, N. Y.
 Organ Power Co. ("Orgoblo" or "Spencer" Silent), Hartford, Conn.

Blowers (Positive Pressure)

AMERICAN GAS FURNACE CO., 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
 Beach-Russ Co., Long Island City, N. Y.
CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
 Connersville Blower Co., Connersville, Ind.
 Crowell, Gilmer, 296 Taaffe pl., B'klyn, N. Y.
DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)
 Gibson Iron Works Co. (Steam Jet), 170 1st, Jersey City, N. J.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Timmis & Clissold, Boundbrook, N. J.
 U. S. Gas Furnace Co., 159 Aborn, Providence, R. I.
 Wilbraham-Green Blower Co. ("Green"), Pottstown, Pa.

Blowers (Pressure)

American Blower Co., Detroit, Mich.
AMERICAN GAS FURNACE CO., 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

Buffalo Forge Co. (Steel), Buffalo, N. Y.
 Champion Blower & Forge Co. (Steel), Lancaster, Pa.
 Connersville Blower Co. (Rotary), Connersville, Ind.
 Cornell, J. B. & J. M. Co. ("The Poole"), 26th & 11th av, New York
 Crowell, Gilmer ("Crowell" Positive), 296 Taaffe Pl., Brooklyn, N. Y.
 Dixie Mfg. Co., Baltimore, Md.
 Exeter Machine Works, Exeter, N. H.
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
 Green Fuel Economizer Co., General Office & Works: Matteawan, N. Y., & 1218 West Street bldg, New York
 Hartford Blower Co., Hartford, Conn.

HILL & GRIFFITH CO. (Cupola), Cincinnati, O. (See adv. index, end of book)
 Monarch Engineering & Mfg. Co. ("Monarch" Low Pressure), Baltimore, Md.

National Blower Works, Milwaukee, Wis.
 Natural Power Co., Kirkwood, Mo.
 New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
 Roots, P. H. & F. M. Co. (Rotary), Connersville, Ind.
 Star Forge Co. ("Star" Steel), Buffalo, N. Y.
 Sturtevant, B. F. Co., Hyde Park, Mass.
 U. S. Gas Furnace Co., 159 Aborn, Providence, R. I.
 Wilbraham-Green Blower Co. ("Green" Rotary Pressure), Pottstown, Pa.

Blowers (Rotary Pressure)

AMERICAN GAS FURNACE CO., 24 John, New York. (See adv. index, end of book)

Beach-Russ Co., Long Island City, N. Y.
 Connersville Blower Co., Connersville, Ind.
 Crowell, Gilmer, 296 Taaffe pl., Brooklyn, N. Y.
 Garden City Fan Co., Fisher bldg, Chicago, Ill.
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Wilbraham-Green Blower Co. ("Green"), Pottstown, Pa.

*Blowers (Steam)

BEGGS, JAS. & CO., 109 Liberty, New York. (See adv. index, end of book)

Blowers & Exhausters (Electric)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Green Fuel Economizer Co., General Office & Works: Matteawan, N. Y., & 1218 West Street bldg, New York
MECHANICAL APPLIANCE CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.

Blue Print Cars & Frames

American Drafting Furniture Co., Rochester, N. Y.
 Fritz & Goedel Mfg. Co. (Frames), 95 Alabama, Grand Rapids, Mich.

Blue Print Filing Cabinets

American Drafting Furniture Co., Rochester, N. Y.
 Butler, A. G., 234 Pearl, New York
 Cleveland Wire Spring Co., Cleveland, O.
 Fritz & Goedel Mfg. Co., 95 Alabama, Grand Rapids, Mich.

*Blue Print Intensifyer & Unifying Tablets for Blue Print Baths

SOLTMANN, E. G.
 (Also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

*Blue Print & Brown Print Papers

(See also Black & Blue Prints & Papers)
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American Drafting Furniture Co. (Electric), 9 Railroad, Rochester, N. Y.
BUCKEYE ENGINE CO. (Electric) "The Sun that Never Sets", Salem, O. (See adv. index & branch offices, end of book)
Dietzen, Eugene Co. (Automatic Electric), 181 Monroe, Chicago, Ill.
ELLIOTT, B. K. CO. ("Elliott" Electric), 108 6th, Pittsburg, Pa. (See adv. index, end of book)
GENERAL ELECTRIC CO. (with Enclosed Arc Lamps), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Keuffel & Esser Co. ("Champion," Continuous), 127 Fulton, New York
Pease, C. F. Blue Print Machinery & Supply Co., 22 5th av, Chicago, Ill.
Revolute Machine Co. ("Everett-McAdam" Continuous Electric), 523 W 45th, New York
Rondinella, L. F. ("Star" Sun & Electric), Phila., Pa.
United States Blue Print Paper Co., 263 La Salle, Chicago, Ill.
Wagenhorst, J. H. & Co. (Automatic), Youngstown, O.
Williams, Brown & Earle (Automatic Electric), 918 Chestnut, Phila., Pa.

Blue Vitriol

(See Battery Chemicals with the words Blue Vitriol following their names)

*Board ("Beaver")

BEAVER MFG. CO., THE, 228 Perry st., Buffalo, N. Y. (See adv. index, end of book)

BEAVER BOARD
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*Board Lifters (Steam)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Board (Wall)

(See Wall Boards)

*Boards (Binders')

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)

*Boards (Fibre)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)

Boards (Friction)

American Straw Board Co., 84 Van Buren, Chicago, Ill.
Davey, W. O. & Sons, Jersey City, N. J.
HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Manhattan Straw Board Co., 143 Wooster, New York

Boards (Hanger)

Brady, T. H., New Britain, Conn.
Cutter, Geo. Co., South Bend, Ind.
Fort Wayne Electric Works, Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Knowles, O. S., 9 Arch, Boston, Mass.
Lundin Electric & Machine Co. ("Arc Lamp" with absolute cut-out), 10 Thacher, Boston, Mass.
Paiste, H. T. Co., 32d & Arch, Phila., Pa.
Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
Worcester Electric Mfg. Co., Worcester, Mass.

*Boards (Hosiery)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)

*Boards (Insulating Press)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)

*Boards (Leather)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)

*Boards (News)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)

Boards (Panel, Etc.)

(See Switchboards, Light & Power)

*Boards (Pattern)

HEWITT, C. B. & BROS. ("A. B. C."), 49 Beekman, New York. (See adv. index, end of book)

Boards (Shoveling)

Anderson Company ("The Acine"), St. Paul, Minn.
Bristol & Gale Co. ("Lakeside"), Chicago, Ill.
Brooksmith Wagon Co., Carrollton, Md.
Butler Co., Butler, Ind.

Des Moines Wagon Works ("Des Moines"), Des Moines, Ia.
Hunt, Helm Ferris & Co. ("Star"), Harvard, Ill.
Nagley Mfg. Co. ("The Sampson"), Lyons, N. Y.
Peoria Drill & Cedar Co. ("Valley City"), Peoria, Ill.
Sturgis, W. B. & Son ("New Western"), Shelbyville, Ill.
Swanson, T. Mfg. Co., Shenandoah, Ia.
Tenney & Sicking (Inc.) ("Superior"), Decatur, Ill.

Boards (Sounding)

Architectural Acoustics Co. (Designers), Ellington, N. Y.
Breckewoldt, J. & Co., Dolgeville, N. Y.
Dodge-Pasey Co. (Piano), Los Angeles, Cal.
Howell, J. J. Son (Church), 275 Oakland, Brooklyn, N. Y.
Parker & Young Co., Llsbon, N. Y.

*Boards (Straw)

HEWITT, C. B. & BROS. (Air & Steam Dried), 49 Beekman, New York. (See adv. index, end of book)

Boards (Tar)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Knerr, Lewis (Paper), Cincinnati, O.

*Boards (Trunk)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)

Boat & Launch Trimmings

Laughlin, Thos. Co., Portland, Me.
Liberty Brass Works, 303 W Lombard, Baltimore, Md.
Simpson, Thos. J., 94 John, New York
Twentieth Century Brass & Iron Works, Minneapolis, Minn.

Boats (Collapsible)

Lane & De Groot Co., 17 Battery pl., New York

Paper Boards Glue

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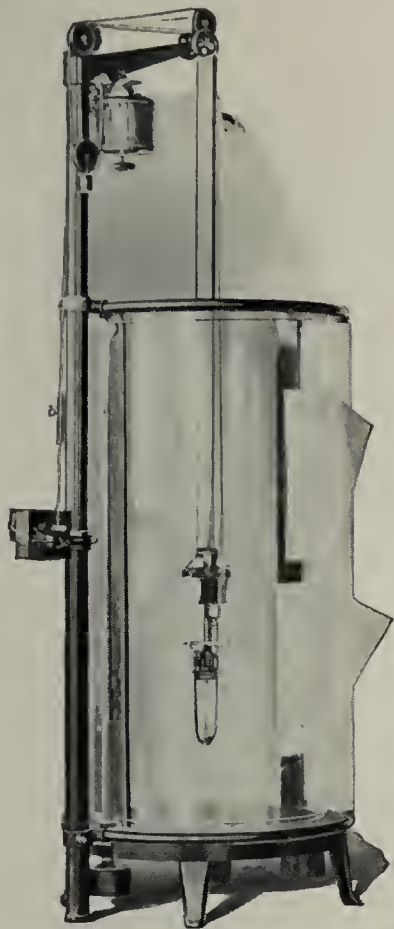
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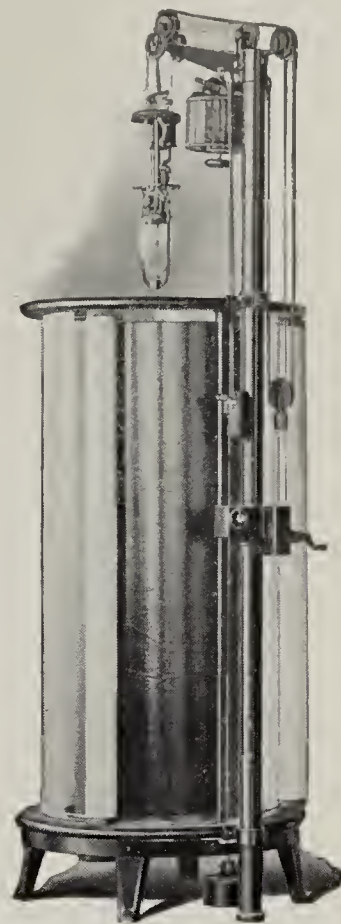
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Commercial Register

Boats (Knocked-Down)

Neumeister, Fred P., Rockford, Ill.
 Niagara Motor Boat Co., North Tonawanda, N. Y.
 Pioneer Boat & Pattern Co., Bay City, Mich.
 St. Louis Boat & Engine Co., 3608 S Main, St. Louis, Mo.
 Supple, Joseph, Portland, Ore.

Boats (Life)

American Ship Building Co., Cleveland, O.
 Armstrong Cork Co., Pittsburg, Pa.
 Burlee Dry Dock Co., Port Richmond, N. Y.
 Detroit Shipbuilding Co. ("Kirby" Metallic), Brass Dept., Detroit, Mich.
 Draln, Thos. & Son, Wilmington, Del.
 Higgins & Gifford Boat Mfg. Co., Gloucester, Mass.
 Lane & De Groot Co. (Metallic Self-Bailing & Self-Righting Collapsible; also Wood Boats), 17 Battery pl., New York
 Mayo Life Boat Co. (Unsinkable), Erie, Pa.

Boats (Motor)

(See Motor Boat, Launch & Yacht Builders)

Boats (Steel)

(See also Motor Boat, Launch & Yacht Builders)
EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)
 Lane & De Groot Co. (Also Wooden Boats), 17 Battery pl., New York
 Michigan Steel Boat Co., 1250 Jefferson av., Detroit Mich.
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)

Bodies (Automobile, Metal)

Cole & Woop, 48 W 67th, New York
 Columbia Steel Co., Elyria, O.
 Detroit Motor Car Supply Co., 1250 Jefferson av., Detroit, Mich.
 Hayes Mfg. Co., Detroit, Mich.
 Keystone Wagon Works, Reading, Pa.
 Koen, James R., 1257 Niagara, Buffalo, N. Y.
 Lawrence, L. & Co. (Aluminum), 292 Halsey, Newark, N. J.
 Leltch, J. N. Co., Amesbury, Mass.
 Michigan Steel Boat Co. (Steel), Detroit, Mich.
 Quinby, J. M. & Co., 27 Division, Newark, N. J.
 Reading Metal Body Co., Fleetwood, Pa.
 Springfield Metal Body Co., 374 Birnie av (Brightwood), Springfield, Mass.
 U. S. Aluminum Co. (Aluminum), New Kensington, Pa.
 Wood, A. M. Co., 51 Beverly, Boston, Mass.

Bodies (Automobile, Wood)

Abresch, Chas. Co., 392 4th, Milwaukee, Wis.
 American Veneer Co. (Laminated), Kenilworth, N. J.
 Automobile Body Co., Lansing, Mich.
 Biehl's Carriage Works, Reading, Pa.
 Borbein Auto Co., 2108 N 9th, St. Louis, Mo.
 Borchers Carriage Co., 18 S St. Clair, Dayton, Ohio
 Briggs Carriage Co., Amesbury, Mass.
 Buckeye Carriage Body Co., Bellefontaine, O.
 Central Mfg. Co., Connersville, Ind.
 Cincinnati Panel Co., c 8th & C. H. & D. R'y, Cincinnati, O.
 Cole & Woop, 48 W 67th, New York
 Collins, G. A. & Son, Akron, O.
 Currier-Cameron Co., Amesbury, Mass.
 Dann Bros. & Co., New Haven, Conn.
 Detroit Carriage Co., Clay & St. Aubin avs, Detroit, Mich.
 Detroit Motor Car Supply Co., 1250 Jefferson av., Detroit, Mich.
 Frantz Body Mfg. Co., Akron, O.
 Holcomb Co. (Inc.), New Haven, Conn.
 Howarth & Rogers Co., Amesbury, Mass.
 Keystone Wagon Works Co., Reading, Pa.
 King Spring Co., Buffalo, N. Y.
 Koen, James R., 1257 Niagara, Buffalo, N. Y.
 Leltch, J. N. Co., Amesbury, Mass.
 Limousine Carriage & Mfg. Co., 3515 Michigan av., Chicago, Ill.
 Michigan Steel Boat Co., 1250 Jefferson av., Detroit, Mich.
 Moore-Munger Co., 602 W 52d, New York
 Neustadt Automobile & Supply Co., 3950 Olive, St. Louis, Mo.
 New Haven Carriage Co., New Haven, Conn.
 Quinby, J. M. & Co., 27 Division, Newark, N. J.
 Schubert Bros. Gear Co., Oneida, N. Y.
 Shepard, H. G. & Sons, New Haven, Conn.
 Shields Carriage Co., Amesbury, Mass.
 Union City Body Co., Union City, Ind.

Willoughby Co., Utica, N. Y.
 Wilson, C. R. Body Co., Milwaukee Junction, Detroit, Mich.
 Wood, A. M. Co., 51 Beverly, Boston, Mass.
 York Wagon Gear Co., Belvidere c P. R. R., York, Pa.

Body Straps

(See Bells, Sleigh)

Boiler Arch Plates

Lamprey Co., Westfield, Mass.
 Mayville Specialty Mfg. Co., Mayville, Wis.
 Risley-Moser Co., Princeton, Ind.

Boiler Arches

Evens & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
 Garfield Fire Clay Co. (Fire Brick), Robinson, Pa.
 Mayville Specialty Mfg. Co. ("Monarch," Portable, Made of Cast Iron & Brick), Mayville, Wis.
 McLeod & Henry Co. (Fire Brick, Steel Mixture), Troy, N. Y.
MAURER, HENRY & SON, 420 E 23d, New York, Penna bldg, Phila., Pa. Works: Maurer, N. J. (See adv. inside front cover)
 Presbrey Stove Lining Co., Taunton, Mass.

Boiler Blow-Off Protector

Mather, Edmund, Harrisburg, Pa.

Boiler Brace Mfrs.

American Iron & Steel Mfg. Co. (Wrought Iron), Lebanon & Reading, Pa.
 Central Iron & Steel Co., Harrisburg, Pa.
KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan av., Chicago, Ill. (See adv. index, end of book)
 Lukens Iron & Steel Co., Coatesville, Pa.
 Ryerson, Jos. T. & Son ("McGregor"), 16th & Rockwell, Chicago, Ill.
 Scully Steel & Iron Co. ("McGregor"), 140 Fulton, Chicago, Ill.
 Ulster Iron Works, Dover, N. J.

Boiler Cleaners

(See Cleaners, Boiler Flue & Tube)

Boiler Compounds

Amazon Chemical Mfg. Co. ("Amazon" Vegetable), Manistee, Mich.
 American Boiler Purger Co., 105 John, New York
 American-German Boiler Compound Co., 164 Dearborn, Chicago, Ill.
 American Oil Works ("Brown"), Rochester, N. Y.
 American Supply Co., 3220 2d av., Pittsburg, Pa.
 Anti-Selenite Co. ("Anti-Selenite"), Security bldg, St. Louis, Mo.
 Arlington Mfg. Co. ("Arlington" Vegetable), Canton, O.
 Arrow Boiler Compound Co. ("Arrow"), 408 Olive, St. Louis, Mo.
 Atlantic Refining Co., Citizens bldg., Cleveland, Ohio
 Atlas Preservative Co. of America ("Atlas"), 25 Old Slip, New York
 Barnum Bros. Co. ("Electric"), Troy, N. Y.
 Bauchelle Mfg. Co., 159 W 24th, New York
 Belden, A. G. ("Gambler"), 145 Maiden la, New York
 Beltine Chemical & Mfg. Co., Kinzie & Sangamon, Chicago, Ill.
 Binghamton Boiler Compound Co. ("Pyramid"), Binghamton, N. Y.
 Bird-Archer Co. ("Bird-Archer," "Manhattan," "Boogher"), 90 West, New York
 Black Bear Co., 80 Pine, New York
 British-American Chemical Co. ("Brisam"), Paterson, N. J.
 Buckeye Chemical Co., Chamber of Commerce, Detroit, Mich.
 Cauton Paint & Varnish Co., Canton, O.
 Champlou Oil Co., W 39th & Lowe av, Chicago, Ill.
 Cherry Chemical Co. ("Red Seal"), 1018 Callohill, Phila., Pa.
 Chesterton, A. W. & Co. ("Challenge"), 64 India, Boston, Mass.
 Cleveland Mfg. & Supply Co. ("Cleveland"), Cleveland, O.
 Continental Chemical Co. ("C. C. C."), 119 S 4th, Phila., Pa.
 Coralline Drug & Chemical Co. ("Coralline"), 465 Greenwich, New York
 Corliss Chemical Co., 409 S 12th, St. Louis, Mo.

Cortland Specialty Co. ("Banner"), Cortland, N. Y.
 Crawford, Clay, 845 W Woodruff av, Toledo, O.
 Crescent Mfg. Co., 1708 Columbus rd., N W, Cleveland, O.
 Dearborn Drug & Chemical Works, Postal Tel. bldg, Chicago, Ill.
 Diamond Compound Co. (Inc.) ("Diamond"), Newark, N. J.
 Dixon Chemical Co., 210 Olive, St. Louis, Mo.
 DuMond, Wm. R. ("Solventine"), 39 South, New York
 Eagle Oil & Supply Co. (U. S. Standard), 104 Broad, Boston, Mass.
 Economy Oil & Compound Co., 442 Clark, Chicago, Ill.
 Eureka Chemical Co., 204 N Commercial, St. Louis, Mo.
 Gallaway, G. W. ("Heichstadter's"), 322 Pearl, New York
 Gardiner, G. N. & Son, 15 William, New York
 Gast, F. J. ("Compo."), 80 John, New York
 General Lubricating Co., 424 Weightman bldg, Phila., Pa.
 General Specialty Co. ("Demon" & "Torpedo"), Buffalo, N. Y.
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Globe Boiler Compound Co. ("Case"), Binghamton, N. Y.
 Griffiths, A. J. & Son, 229 S Front, Phila., Pa.
 Griggs, Jos. E., Indianapolis, Ind.
 Hallsall, Geo., Jamestown, N. Y.
 Harlem Supply Co. ("American"), 414 N Front, Baltimore, Md.
 Harris, A. W. Oil Co. ("Harris"), Providence, R. I.
 Hawk-Eye Compound Co. ("Hawk-Eye"), Merri-ck blk, Chicago, Ill.
 Hayner, Norman C. Co., 16 S Washington, Rochester, N. Y.
 Herb Boiler Compound Co., 6801 Pear av, N. W., Cleveland, O.
 Howard Chemical Co. ("Scale-Off"), 63 Fulton, New York
 Hull, Fred A., South Bend, Ind.
 Illinois Boiler Cleaning Compound Co., 79 Dearborn, Chicago, Ill.
 Imperial Chemical Co., 514 N American, Phila., Pa.
 Indianapolis Boiler Compound Co. ("Peerless" Water Breaker), 10th & Canal, Indianapolis, Ind.
 Indianapolis Chemical Co. ("Acme," "Star"), Indianapolis, Ind.
 International Boiler Cleaning Co. ("Scalene"), 423 East, Baltimore, Md.
 International Boiler Compound Co., 47 Market, Chicago, Ill.
 Ironsides Co., The Wyandotte, Columbus, O.
 Jewell Engineering Co., 206 W Lake, Chicago, Ill.
 Johns, H. W.-Manville Co. ("Magic"), 100 William, New York
 Johnson Compound & Supply Co. ("Sumac"), Rochester, N. Y.
 Keasbey & Mattison Co., Main Office & Works, Ambler, Pa.
 Kentucky Consumers' Oil Co., Louisville, Ky.
 Kenzel, Jno. S., 451 Pearl, New York
 Keystone Chemical Mfg. Co. ("Keystone," Tri-Sodium Phosphate), Penna. bldg, Phila., Pa.
 Keystone Lubricating Co., Phila., Pa.
 King-Keystone Oil Co., San Francisco, Cal.
 Kohlbrand, H. & Co. ("Anchor"), 221 E Pearl, Cincinnati, O.
 Kuhne-Libby Co. ("Marvel"), 60 Water, New York
 Lagonda Mfg. Co. ("Lagonda," "Union," "Weinland"), Springfield, O.
 Lake Erie Boiler Compound Co. ("Red Star"), Buffalo, N. Y.
 Lord, Geo. W. Co., 2238 N 9th, Phila., Pa.
 Lord, Henry W. ("Lord's"), Franklin bldg, Baltimore, Md.
 Lynch-Clarisey Co., 3652 Archer av, Chicago, Ill.
 Lynch, Wm., 32 Bay, Brooklyn, N. Y.
 McJilton, Wm. F. ("American"), 178 Atlantic av, Brooklyn, N. Y.
 Mallory, W. H., Omaha, Neb.
 Metropolitan Steam Boiler Compound Co., 26 Court, Brooklyn, N. Y.
 Minnesota Boiler Compound Co., Bradley bldg, St. Paul, Minn.
 Mohawk Refining Co. ("Mohawk"), 1187 W 11th, N W, Cleveland, O.
 Moore Vegetable Boiler Purger Co., 21 Jefferson, Detroit, Mich.
 National Mill Supply Co. ("Star"), Fort Wayne, Ind.
 Nebraska Boiler Compound Co., Omaha, Neb.
 New Era Mfg. Co. (Soluble Metal), Kalamazoo, Mich.
 Nonkoroda Co., 25 New Chambers, New York
 Northrop Lubricating Oil Co. ("Famous"), 308 N Commercial, St. Louis, Mo.

Magnolla Boiler Compound Co. ("Magnolla"), Cincinnati, O.
 Nuhrling, Chas. & Bro. ("Victor," "Success"), 907 Walnut, Cincinnati, O.
 O'Neill Oil & Paint Co. ("O'Neills"), 297 E. Water, Milwaukee, Wis.
 Parsons, J. H. Chemical Co. ("A. B. C. Alkali"), Masonic Temple, Chicago, Ill.
 Patapsco Oil & Grease Co. ("Perfection"), 109 Chesapeake, Baltimore, Md.
 Pittsburg Boiler Scale Resolvent Co., Bessemer bldg, Pittsburg, Pa.
 Read, Edward B., San Francisco, Cal.
 Reliance Oil & Grease Co., 50 South, New York
 Russian Mfg. Co., 12 Federal, Allegheny, Pa.
 Scribner Boiler Compound Co., 468 W. Lake, Chicago, Ill.
 Smith, H. Bentley Co. ("Hibbs"), Phila. Bourse, Phila., Pa.
 Smith, Kline & French Co. ("McNelly's" American), 435 Arch, Phila., Pa.
SMOOTH-ON MFG. CO. ("Smooth-on")
 Scale, Jersey City, N. J. (See adv. Index & branch offices, end of book)
 Star Boiler Compound Co., Cincinnati, O.
 Star Lubricating Co., 232 W. 28th, New York
 Star Lubricating Oil Co. ("Excelsior"), 8408 Kinsman rd, S E, Cleveland, O.
 Star Oil Co. ("Acme"), 307 S. Desplaines, Chicago, Ill.
 Stephenson Mfg. Co. ("Stephenson"), Albany, N. Y.
 Sterling Boiler Compound Co., 206 B'way, New York
 Straus & Co. ("Bollerine"), 55 Broad, New York
 Streett, J. D. & Co. ("Lightning"), 809 N. 2d, St. Louis, Mo.
 Stuart, D. A. & Co., 447 Illinois, Chicago, Ill.
 Sullivan Oil Co., 48 N. Wells, Chicago, Ill.
 Superior Chemical & Engineering Co., Marquette bldg, Chicago, Ill.
 Surcoat Mfg. Co., Detroit, Mich.
 Thompson, Walter M., Cincinnati, O.
 Union Chemical & Drug Co., Cincinnati, O.
 U. S. Chemical Co., Wade bldg, Cleveland, O.
 Vulcan Asbestos Mfg. Co. ("Zinera"), 192 Pearl, New York
 Wadhams Oil Co. ("Eureka"), 215 National av., Milwaukee, Wis.
 Walsh, John F. ("U. S. Scalesolvent"), 25 W. Lake, Chicago, Ill.
 Warley, Thos. C. & Co., 221 S. Front, Phila., Pa.
 Warren & Bailey Mfg. Co. ("Acme"), 359 N. Main, Los Angeles, Cal.
 Western Boiler Compound & Chemical Co., Kansas City, Mo.
 Wilson, Clark Co., 11722 Euclid av., Cleveland, Ohio
 Wilson Co. ("Wilson"), 18 B'way, New York
 Wilson & Roake, 261 Front, New York
 Wing, J. T. & Co., Detroit, Mich.
 Winn, Wm. R. ("Winn"), 143 Malden lane, New York
 Wolff, Norbert & Son ("Wolff"), 470 Greenwiche, New York
 Zephon Chemical Compound Co., 77 Jackson boul., Chicago, Ill.
 Zurn, O. F. Co. ("Peerless"), Broad & Lehigh av., Phila., Pa.

Boiler Coverings

(See Pipe & Boiler Coverings)

Boiler Dealers

(See Machinery Dealers)

Boiler Door Arches

(See Boiler Arches; also Cupola Linings or Blocks)

*Boiler Flanges (Forged Steel)

AMERICAN SPIRAL PIPE WORKS.
 W 14th & 48th av., Chicago, Ill. (See adv. Index & branch offices, end of book)

Boiler Flue Holes & Manholes (Flanged)

Central Iron & Steel Co., Harrisburg, Pa.
 Glasgow Iron Co. (Pressed Open Hearth Steel), Pottstown, Pa.
 Lukens Iron & Steel Co., Coatesville, Pa.
 Ryerson, Jos. T. & Son, 16th & Rockwell, Chicago, Ill.
 Scully Steel & Iron Co., Chicago, Ill.
 Worth Bros. Co., Coatesville, Pa.

Boiler Flue & Tube Cleaners

(See Cleaners, Boiler Flue & Tube)

Boiler Fronts & Castings

AMERICAN BRAKE SHOE & FOUNDRY CO., Mahwah, N. J., & Western Union bldg, Chicago, Ill. (See adv. Index & branch offices, end of book)

Casey-Hedges Co., Chattanooga, Tenn.
 Chickasaw Iron Works, Memphis, Tenn.
 Coatesville Foundry & Machine Co., Coatesville, Pa.

DONEGAN & SWIFT, 6 Murray, New York. (See adv. Index, end of book)

Eddy, R. M. Foundry Co., 59 Indiana, Chicago, Ill.

Erle Eugline Works, Erle, Pa.

Freeman, S. & Sons Mfg. Co., Racine, Wis.

Frick, Horace E. Co., 286 Greenwiche, New York

Frost Mfg. Co., Galesburg, Ill.

Harrisburg Foundry & Machine Works, (Colonial Style), Harrisburg, Pa.

Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.

Howell, R. R. & Co., Minneapolis, Minn.

Janney & Co., Montgomery, Ala.

Keeler, E. Co., Williamsport, Pa.

Kelly Foundry & Machine Co., Goshen, Ind.

KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan av., Chicago, Ill. (See adv. Index, end of book)

KUTZTOWN FOUNDRY & MACHINE CO., 116 N. Broad, Philadelphia, Pa. (See adv. Index & branch offices, end of book)

MACINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. Index, end of book)

Memphis Machine Works, Memphis, Tenn.

Metropolitan Iron Foundry, 548 W. 55th, New York

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. Index & branch offices, end of book)

Munroe, R. & Sons Corp'n, Pittsburg, Pa.

Murray Iron Works Co., Burlington, Iowa

National Tube Co., Pittsburg, Pa.

Niver Iron Works Co., Muscatine, Iowa

Nordyke & Marmon Co., Indianapolis, Ind.

Odlum-Taylor Boiler Co., Memphis, Tenn.

Paxton & Vierling Iron Works, Omaha, Neb.

Peacock's Iron Works, Selma, Ala.

Petty, J. K. & Co. (Lebanon Boiler Works), Philadelphia, Pa.; Works: Lebanon, Pa.

Rieard Boiler & Engine Co., Toledo, O.

Scully Steel & Iron Co., 69 N. Halsted, Chicago

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Thacher, Geo. H. & Co., Albany, N. Y.

Valley Iron Works, Williamsport, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.

Vulcan Steam Shovel Co., Toledo, O.

Walsh & Weldner Boiler Co., Chattanooga, Tenn.

Boiler Heads (Flanged & Dished)

Avery Stamping Co. (All Gauges), 5207 Lakeside av., N E, Cleveland, O.

Central Iron & Steel Co., Harrisburg, Pa.

Crucible Steel Co. of America (Open Hearth Steel), Pittsburg, Pa.

Glasgow Iron Co. (Flange & Dished Steel), Pottstown, Pa.

Keeler, E. Co., Williamsport, Pa.

Lukens Iron & Steel Co., Coatesville, Pa.

Munroe, R. & Sons Corp'n, Pittsburg, Pa.

Ryerson, Jos. T. & Sons (Inc.), 22 Milwaukee av., Chicago, Ill.

Scully Steel & Iron Co., 136 Fulton, Chicago

Springfield Boiler & Mfg. Co., Springfield, Ill.

Standard Boiler & Plate Iron Co., Niles, O.

Tudor Boiler Mfg. Co., Cincinnati, O.

Worth Bros. Co. (Flange & Dished), Coatesville, Pa.

*Boiler Heads (Pressed Steel)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. Index, end of book)

PRESSED STEEL TANK CO. (Also Tank Heads), Milwaukee, Wis. (See adv. Index, end of book)

Boiler Lugs

Castle, A. M. & Co. ("The Drake" Castle Pressed Steel), 55 N. Jefferson, Chicago, Ill.

Glasgow Iron Co. ("Pressed Steel"), Pottstown, Pa., & 1502 Market, Phila., Pa.

KUTZTOWN FOUNDRY & MACHINE CO. (Cast Iron), 116 W. Broad, Phila., Pa. (See adv. Index & branch offices, end of book)

Lukens Iron & Steel Co., Coatesville, Pa.

Ryerson, Jos. T. & Sons (Inc.), 16th & Rockwell, Chicago, Ill.
 Scully Steel & Iron Co. (Pressed Steel), Chicago, Ill.
 Worth Bros. Co., Coatesville, Pa.

*Boiler Makers' Tools (Kitchen)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. Index, end of book)

*Boiler Mountings (Portable)

ELECTRIC WHEEL CO., Quincy, Ill. (See adv. Index, end of book)

*Boiler Purifying Apparatus

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. Index, end of book)

*Boiler Saddles (Cast Steel)

AMERICAN BRAKE SHOE & FOUNDRY CO., Mahwah, N. J., & Western Union bldg, Chicago, Ill. (See adv. Index & branch offices, end of book)

Boiler Saddles (Pressed Steel)

Central Iron & Steel Co., Harrisburg, Pa.
 Glasgow Iron Co., Pottstown, Pa.
 Lukens Iron & Steel Co., Coatesville, Pa.
 Worth Bros. Co., Coatesville, Pa.

Boiler Scale Preventing and Water Circulating System

Goss Water Tube Boiler Co. (By Excess Steam Pressure), 204 Dearborn, Chicago, Ill.

Boiler Setting (Brickless Steel)

Casey-Hedges Co. ("C. H." Patents), Chattanooga, Tenn.

Boiler Shells (Automobile)

Avery Stamping Co., Cleveland, O.
 Hungerford, U. T. Brass & Copper Co. (Copper), 497 Pearl, New York
 Janney, Steinmetz & Co. (Seamless Steel), Central Trust & Sav. bldg, Phila., Pa.

PRESSED STEEL TANK CO. (Seamless Steel), Milwaukee, Wis. (See adv. Index, end of book)

Randolph-Clowes Co. (Copper), Waterbury, Conn.

SCAIFE, WM. B. & CO., 221 1st av., Pittsburg, Pa. (See adv. Index, end of book)

Standard Welding Co. (Welded Steel), Cleveland, O.

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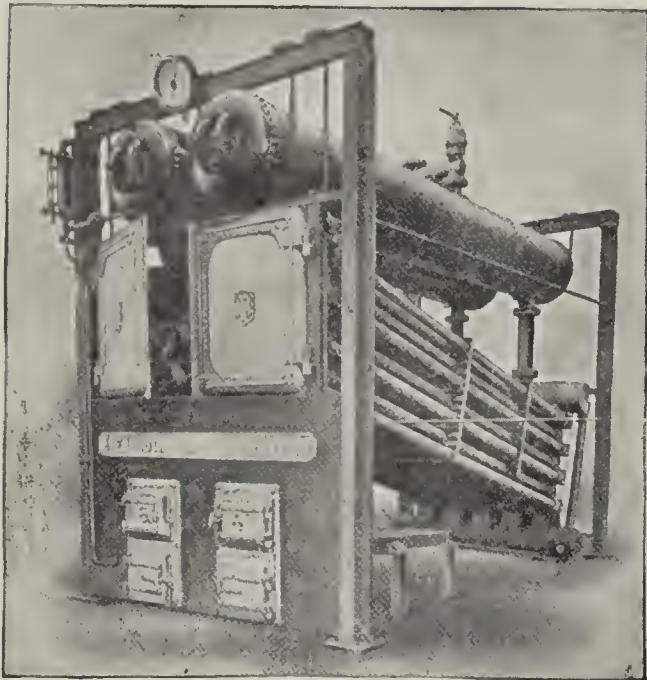
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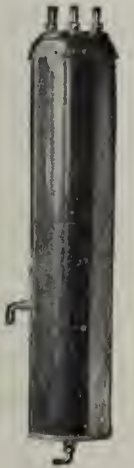
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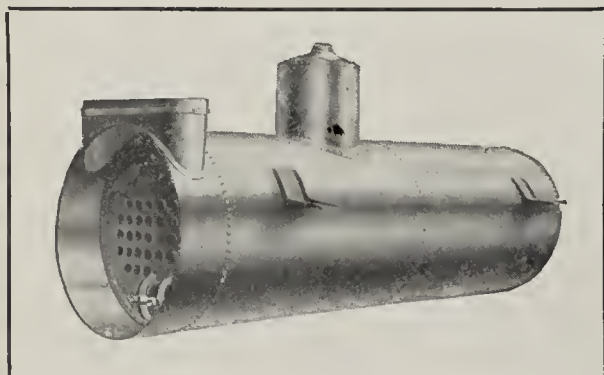
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CHICAGO STORE
35 Michigan Avenue

McMANN & TAYLOR CO. (Jobbers), 104 John, New York. (See adv. index, end of book)

Mark Mfg. Co. (Lap Welded), Evanston, Ill.; Works: Zanesville, O.

Monongahela Tube Co., Pittsburg, Pa.

National Tube Co., Frick bldg, Pittsburg, Pa.

New Jersey Tube Co. (Spirally Corrugated), Harrison, N. J.

Ohio Seamless Tube Co. (Seamless Steel), Shelby, O.

Parkesburg Iron Company (Charcoal Iron), Parkesburg, Pa.

Reading Iron Co., Reading, Pa.

Reliance Tube Co. (Lap Welded Steel & Charcoal Iron), 421 Wood, Pittsburg, Pa.

Seamless Tube Co. of America (Seamless Drawn Steel), Pittsburg, Pa.

Shelby Steel Tube Co. (Cold Drawn), Pittsburg, Pa.

Spang, Chalfant & Co. (Inc.) (Butt & Lap Welded Wrought Iron & Steel), Pittsburg, Pa.

Tyler Tube & Pipe Co. (Kobbed Charcoal Iron & Algerite Iron Boiler Tubes), Washington.

Worth Bros. Co., Coatesville, Pa.

Youngstown Sheet & Tube Co., Youngstown, O.

Boiler Washing & Testing Apparatus

Erle Heating Co. ("Erle" Automatic), Railway Exchange bldg, Chicago, Ill.

Nathan Mfg. Co., 85 Liberty, New York

Rue Mfg. Co., 120 Broad, Phila., Pa.

SCAIFE, WM. B. & SONS CO., 221 1st, av, Pittsburg, Pa. (See adv. index, end of book)

Boilers (Automobile)

Barton Boiler Co. ("Simplex" Flash), 2427 Calumet av, Chicago, Ill.

Bigelow Co. (Fire Tube), New Haven, Conn.

Janney, Steinmetz & Co. (Seamless Steel), Central Trust & Sav. bldg, Phila., Pa.

Kitts Mfg. Co. (Semi-Flash), Oswego, N. Y.

Locke Regulator Co. (Fire Tube), Salem, Mass.

MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Murray & Tregurtha Co. (Water Tube), Boston, Mass.

Ofeldt, F. W. & Sons (Water Tube), Nyack, N.Y.

PRESSED STEEL TANK CO. (Pressed Steel), Milwaukee, Wis. (See adv. index, end of book)

Steam Carriage Boiler Co. ("Universal" "Standard" Fire Tube), Oswego, N. Y.

Throop Perforating Co. (Fire Tube), Buffalo, N.Y.

Walker, E. C. Co. (Fire Tube), New Albany, Ind.

Boilers (Bath)

(See Boilers, Range, Galvanized Iron)

Boilers (House Heating)

(See Heaters, Steam & Hot Water)

Boilers (Locomotive, Fire Box)

Atlas Engine Works, Indianapolis, Ind.

BEGGS, JAS. & CO., 109 Liberty, New York. (See adv. index, end of book)

Casey-Hedges Co., Chattanooga, Tenn.

Connelly, D. Boiler Co., Cleveland, O.

DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)

KEELER, E. CO., Williamsport, Pa. (See adv. index & branch offices, end of book)

KEWANEE BOILER CO., Kewanee, Ill. (See adv. index, end of book)

MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

PETROLEUM IRON WORKS CO. Sharon, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Power & Mining Machinery Co., Works: Cudahy, Wis.

Titusville Iron Co., Titusville, Pa.

Boilers (Low Pressure)

(See Heaters, Steam & Hot Water)

Boilers (Marine)

Abern, D., 263 South, New York

Almy Water Tube Boiler Co., Providence, R. I.

Atlantic Works, Border, Maverick & New sts., E Boston, Mass.

Babcock & Wilcox Co., 85 Liberty, New York

Bath Iron Works, Bath, Me.

Brenner Engineering Co., 89 South, New York

Cain & O'Berry Boiler Works, Orlando, Fla.

Camden Anchor-Rockland Machinery Co., Rockland, Me.

Casey-Hedges Co. (Scotch, Leg. & Special), Chattanooga, Tenn.

Cramp, Wm. & Sons, Phila., Pa.

Delaware Iron Ship Building & Engine Works, Chester, Pa.

Detroit Shipbuilding Co. (Scotch & Fire Box), Brass Dept., Detroit, Mich.

Dialogue, Jno. H. & Sons, Camden, N. J.

DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)

Fletcher, W. & A., Hoboken, N. J.

Fore River Ship Building Co., Quincy, Mass.

Fulton Iron Works, 15 1st, San Francisco, Cal.

Great Lakes Engineering Works, Detroit, Mich.

Harlan & Hollingsworth Corp., Wilmington, Del.

Johnson Bros., Ferrysburg, Mich.

KEELER, E. CO., Williamsport, Pa. (See adv. index & branch offices, end of book)

Kingsford Foundry & Mach. Works, Oswego, N. Y.

Lake Erie Boiler Works, Buffalo, N. Y.

Lawson, J. Mfg. Co., New Holstein, Wis.

Logan, Farrell & Son, Brooklyn, N. Y.

McIlvain & Spiegel Boiler Tank Co., Cincinnati, O.

Mackinnon Mfg. Co., Bay City, Mich.

Manistee Iron Works Co., Manistee, Mich.

Manitowoc Steam Boiler Works, Manitowoc, Wis.

Marine Iron Works Co., Chicago, Ill.

Marvel, T. S. Shipbuilding Co., Newburgh, N. Y.

Maryland Steel Co., Sparrows Point, Baltimore, Md.

Merrill-Stevens Engineering Co., Jacksonville, Fla.

Moran Co., Seattle, Wash.

Mosher Water Tube Boiler Co., 1 B'way, New York

Newburgh Steam Boiler Works, Newburgh, N. Y.

New York Ship Building Co., 12 B'way, New York

Northwestern Steam Boiler & Mfg. Co., Duluth, Minn.

OIL CITY BOILER WORKS, Oil City, Pa. (See adv. index, end of book)

Oldman Boiler Works (Upright), 38 Illinois, Buffalo, N. Y.

Pacific Iron Works, Bridgeport, Conn.

Philadelphia Iron Works, 18th & Penna. av, Phila., Pa.

Portland Co., Portland, Me.

Pussey & Jones Co., Wilmington, Del.

Quintard Iron Works Co., 742 E 12th, New York

Racine Boat Mfg. Co., Muskegon, Mich.

Roberts Safety Water Tube Boiler Co., 39 Cortlandt, New York

Robins, Jno. N. Co., Erie Basin, S Brooklyn, New York

Shewan's, James Sons, ft E Houston, New York

Smith, S. & Son Co., Paterson, N. J.

Southern Marine Works, New Orleans, La.

Spedden Shlp Building Co., Baltimore, Md.

Springfield Boiler & Mfg. Co., Springfield, Ill.

Faylor Water Tube Boiler Co., Detroit, Mich.

Thropp, Jno. E & Sons, Trenton, N. J.

Townsend & Moore Eng. Works, 2 Erie Basin, Brooklyn, N. Y.

Union Iron Works Co., San Francisco, Cal.

Verdon, Fred'k A., 25 Pine, New York

Volk & Murloch Iron Works, Charleston, S. C.

Boilers (Portable, on Wheels)

Atlas Engine Works, 10th & Martindale avs, Indianapolis, Ind.

Byers, Jno. F. Machine Co. (Vertical), Ravenna, O.

Casey-Hedges Co., Chattanooga, Tenn.

Chandler & Taylor Co., Indianapolis, Ind.

DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)

Erle City Iron Works, Erle, Pa.

Freeman, S. & Sons Mfg. Co., Racine, Wis.

Frick Co., Waynesboro, Pa.

Greensboro Boiler & Machine Co., Greensboro, N. C.

Leffel, James & Co. (The) Springfield, O.

Munroe, R. & Sons Mfg. Co., Pittsburg, Pa.

Oil City Boiler Works (Inc.), Oil City, Pa.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Phoenix Iron Works Co., Meadville, Pa.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Struthers, Wells Co., Warren, Pa.

Titusville Iron Co., Titusville, Pa.

Union Iron Works Co., San Francisco, Cal.

Boilers (Range, Copper)

BADGER, E. B. & SONS CO., 77 Pitts, Boston, Mass. (See adv. index, end of book)

Blessing, C. A., 516 Montgomery av, Phila., Pa.

Boston Copper Works Co., 84 Marginal, E. B., Boston, Mass.

Dahlquist Mfg. Co. ("Boston"), 40 W 3d, South Boston, Mass.

Hayes Mfg. Co. ("Wilhelme," "Modern" & "Manhattan"), Paterson, N. J.

Jochum, Andrew, 148 E 50th, New York

Manchester, Jas. B. Co., Providence, R. I.

Randolph-Clowes Co. (Brown Bros. "Seamless"), Waterbury, Conn.

Reardon, Jno., 111 Albany, Boston, Mass.

Ronalds & Johnson Co., 54 Cliff, New York

Trageser, John Steam Copper Works, 447 W 26th, New York

Boilers (Range, Galvanized Iron)

Brooklyn Range Boiler Co., Borden av, Long Island City, N. Y.

Carroll, Patrick & Son, 1410 Fairmount av, Phila., Pa.

Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.

Detroit Range Boiler Co., 619 24th, Detroit, Mich.

Harney, Wm., 1349 N Warnock, Phila., Pa.

Heller, Aller & Co., Napoleon, O.

Hibbs, E. A., 209 Quarry, Philadelphia, Pa.

Hill, Thos. B., 2314 N 8th, Philadelphia, Pa.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Lalace & Grosjean Mfg. Co., 19 Cliff, New York

Leader Iron Works, Decatur, Ill.

Pennsylvania Range Boiler Co., 2010 N 10th, Phila., Pa.

Riverside Boiler Works, Boston, Mass.

Ronalds & Johnson Co., 54 Cliff, New York

Sattler, J. P. B. & Co., 231 Park av, Baltimore, Md.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Thompson Iron Works, 1825 Callowhill, Philadelphia, Pa.

Trageser, John, Steam Copper Works, 447 W 26th, New York

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Wood, Jno. Mfg. Co. (Electric Welded Seamless), Conshohocken, Pa.

*Boilers (Range, Seamless Pressed Steel)

PRESSED STEEL TANK CO. (Seamless Drawn), Milwaukee, Wis. (See adv. index, end of book)

Boilers (Return Tubular)

AMERICAN BOILER WORKS, Louisville, Ky.

BEGGS, JAMES & CO. (Horizontal), 109 Liberty, New York. (See adv. index, end of book)

Brownell Co., Dayton, O.

Casey-Hedges Co., Chattanooga, Tenn.

Coatesville Boiler Works, Coatesville, Pa.

Cole, R. D. Mfg. Co., Newnan, Ga.

DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)

Erle City Iron Works, Erle, Pa.

KEELER, E. CO., Williamsport, Pa. (See adv. index, end of book)

Kensington Engine Works, Philadelphia, Pa.

KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan av, Chicago, Ill. (See adv. index, end of book)

Kingsford Foundry & Machine Co., Oswego, N. Y.

Leffel, James & Co. (The) Springfield, O.

Petty, J. K. Co., Lebanon, Pa.

Robb-Mumford Boiler Co., S Framingham, Mass.

York Mfg. Co., York, Pa.

*Boilers (Steel Sectional)

ABENDROTH & ROOT MFG. CO. ("Root" Sectional Boilers a Specialty), Newburgh, N. Y. (See adv. index & branch offices, end of book)

GORTON & LIDGERWOOD CO., 96 Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index end of book)

Kellogg-Mackay Co., Chicago, Ill.

Boilers (Tubular)

(See also Heaters, Steam & Hot Water)

ALABAMA.

BIRMINGHAM — Birmingham Boiler Works (Marine; Return Tubular)
MOBILE—Gulf City Boiler Works
MONTGOMERY—Hartley's Boiler Works
SELMA—Union Iron Works Co.

ARKANSAS.

FORT SMITH—Ketcham Iron Co.
PINE BLUFF—Pine Bluff Boiler & Iron Works (A. A. Lefaurin, Prop)

CALIFORNIA.

CHICO—Diamond Match Co. (Engineering Dep't)
EUREKA—Langford Bros.
LOS ANGELES—Baker Iron Works, 932 Buena Vista

California Boiler Works, 226 Queirolo
Fulton Engine Works, N Main & Alhambra av

Los Angeles Boiler Works, 119 Redondo
Llewellyn Iron Works, Redondo c N Main
Pioneer Boiler & Machine Works, Carolina & Palmetto

Union Iron Works, Molino & Palmetto
Western Boiler Works, ft. N 29th av

OAKLAND—Oakland Boiler Works, 659 Frank-
United Iron Works, 2d & Jefferson
SAN FRANCISCO—Bay City Iron Works, 1243 Harrison

Brode & Clark Iron Works, 621 Howard
California Boiler Works, 125 Fremont
Dyer Bros. Golden West Iron Works, 17th & Kansas

Eureka Boiler Works Co. (Marine, Stationary & Locomotive), 57 Mission
Fulton Iron Works, 511 Market

Hendy, Joshua Iron Works, 75 Fremont
Keystone Boiler Works, Main c Folsom
Moore & Scott Iron Works

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Renneburg, Edward & Son, 1917 Alliceanna
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ST. MARYS—St. Marys Machine Co.
SPRINGFIELD—Casey, D. L. Machine Co., 74
E Washington
Leffel, Jas. & Co. (Inc.) (Stationary, Port-
able, Horizontal & Vertical)
Roberts, Thomas, Highland av
STEUBENVILLE—Cady, A. L.
TIFFIN—Canty, John E.
Conley, T. F.
TOLEDO—Atlas Engine Works
Flanner, D. D. Boiler Co.
Globe Boiler Works
Ironville Boiler Works (Michael-Healy,
Loos, Adam Prop)
Marine Boiler Works Co.
Ricard Boiler & Engine Co.
Toledo Ship Building Co. (Marine)
WARREN—McMyler Mfg. Co.
Warren City Tank & Boiler Co. Works
YOUNGSTOWN—Pollock, W. B. Co.
ZANESVILLE—Griffith & Wedge Co.

OREGON.

ALBANY—Albany Iron Works
ASTORIA—Astoria Iron Works (Inc.)
PORTLAND—Phoenix Iron Works, Hawthorne
av c E 3d

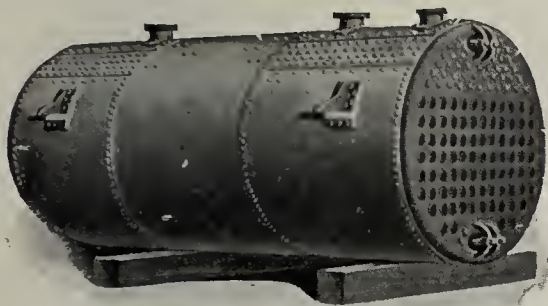
PENNSYLVANIA.

ALLEGHENY—Morrison, James F., South &
Pearson Mfg. Co. Grant avs
ALLENTOWN—Allentown Boiler Works (Col-
ium & Knouse, Props.)
Hellman Boiler Works
McDermott Bros.
BEAVER FALLS—Beaver Valley Boiler Works
BRADFORD—Bovard & Seyfang Mfg. Co.
O'Brien & Harrigan ("Electric")
CHESTER—Berry Engineering Co. ("Berry"
Safety)
Wetherill, Robert & Co. ("Berry" Safety,
Tubular, Fine, Marine & Fire Box)
COATESVILLE—Coatesville Boiler Works (Re-
turn Tubular, Stationary, Vertical, etc.)
COLUMBIA—Fairer & Son
CONSHOHOCKEN—Bate, Wm. T. & Son
CORRY—Ajax Iron Works (Stationary & Port-
able)
Climax Mfg. Co.
Corry Steam Boiler Works
DUBOIS—Dubois Iron Works (Tubular)
EAST STROUDSBURG—International Boiler
Co.
ERIE—Erle City Iron Works ("Economic"
Stationary, Portable, Vertical, Return
Erle Engine Works Tubular, etc.)
Nagle Engine & Boiler Works
Pennsylvania Boiler Works
Union Iron Works
HAMBURG—Selders, Henry
HARRISBURG—Harrisburg Foundry & Machine
Works (High Duty)
Harrisburg Mfg. & Boiler Co.

E. KEELER COMPANY

(Established 1864)

WILLIAMSPORT, PA.



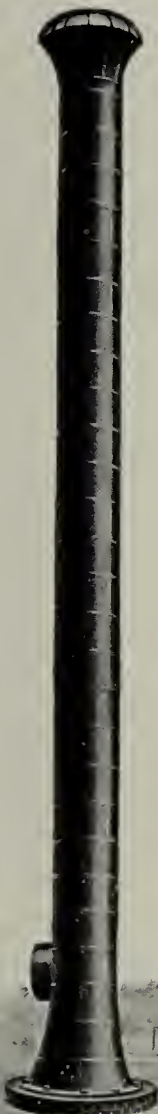
RETURN TUBULAR BOILER

BOILERS

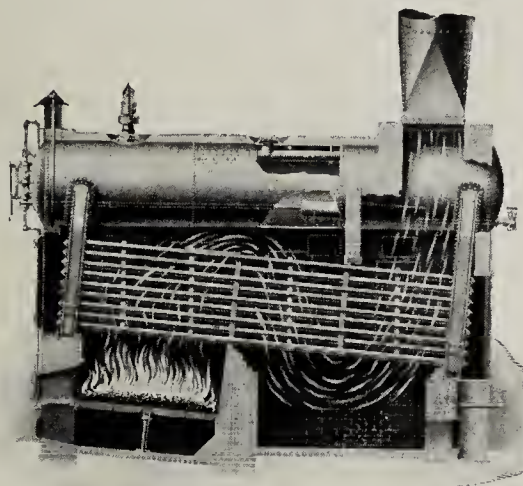
WATER TUBE
LOCOMOTIVE

RETURN TUBULAR
HOUSE HEATING

MARINE



SELF-SUPPORTING
STEEL STACK



KEELER WATER TUBE BOILER



WATER TUBE FRONT

STACKS, TANKS, RIVETED STEEL PIPE

NEW YORK
PHILADELPHIA
BOSTON

PITTSBURG
CHICAGO

WILKES-BARRE, PA.
ROCHESTER, N. Y.
DALLAS, TEX.

ATLANTA, GA.
SEATTLE, WASH.

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C O M M E R C I A L

IF YOU ARE IN DOUBT AS TO THE
ORIGINAL MANUFACTURER OF
ANY MACHINE OR TOOL ON WHICH
THE PATENTS HAVE EXPIRED, THAT
ARE NOW BEING EXPLOITED BY MANY
MAKERS, ASK HENDRICKS.

IT IS NOT A CATALOG OF ADVER-
TISERS ALONE, BUT A COM-
PLETE REGISTER OF THE MANU-
FACTURERS AND JOBBERS IN EVERY
LINE OF TRADE THAT COMES WITHIN
THE SCOPE OF THE WORK.

R E G I S T E R

HOLLIDAYSBURG—Madden Boiler Works
KENNETT SQUARE—American Road Machine Co. (Portable & Stationary)
LANCASTER—Barry & Zecher Co.
LANDISVILLE—Monitor Steam Generator Mfg. Co. (Wrought Iron Coil High Pressure)
LEBANON—Petty, J. K. & Co. (Return Tubular, Locomotive, Vertical, etc.)
 Union Boiler Mfg. Co.
LINDSEY—Lindsey Boiler Works
MEADVILLE—Phoenix Iron Works Co.
NEW CASTLE—Fleming's, Wm. Sons
 Pennsylvania Engineering Works
NEW HAVEN—Connellsville Iron Works
NORRISTOWN—Gibbons, W. I.
 Newbold, R. S. & Son Co.
OAKDALE—Kinney, F.
OIL CITY—Oil City Boiler Works (Inc.)
 Oil Well Supply Co. (Of Pittsburg)
 Ravey, Joseph H.
PETROLIA—Barney, H. M.
PHILADELPHIA—Babcock & Wilcox Co. (Of New York) (Forged Steel), No. American bldg.
 Balzley, John Iron Works, 510 S Delaware av
 Connery Co., 1326 N 9th
 Cramp, Wm. & Sons Ship & Engine Building Co. (Marine), Beach & Ball
 Ervlen, C. W. & Co., G. & E. Venango
 Gilman, Wm., 1110 Beach
GRISCOM-SPENCER CO. (Repairs & Installations Also), ft Washington av, (See adv. index, end of book)
 Helne Safety Boiler Co., Penna bldg. Works, Phoenixville, Pa.
 McGovern & Smith, 2054 E Lehigh av
 Morris I. P. Co., Beach & Ball
 Naylor, John S., Front & Gerard av
 Page, Wm. H. Boiler Co. (of Norwich, Conn.), 620 Arch
 Parker Boiler Co., Pennsylvania bldg
 Petty, J. K. & Co. (Return, Tubular, Locomotive, Vertical, etc.), Girard bldg. Works; Lebanon, Pa.
 Philadelphia Iron Works, 18th & Penn av
 Quaker City Iron Works, Richmond & Tioga
 Williamson Bros. Co., Aramingo av & E. Cumberland
PHOENIXVILLE—Heine Safety Boiler Co.
PITTSBURG—Babcock & Wilcox Co. (Of New York) (Forged Steel), Frick bldg
CARLIN'S, THOS. SONS CO., 1610 River av (North Side). (See adv. index, end of book)
 Carroll Porter Boiler & Tank Co., Empire
 Hawksworth Bros., 3017 Smallman bldg.
 Lappan, Jas. Mfg. Co., 20th & Pike
 Long, Walter, Muriel & S 14th
 McNeil, James & Bros., 29th & Railroad
 Mauchester, Wm. Co., 3108 Smallman
 Munroe, R. & Sons Mfg. Corporation, 23d & Smallman
OIL WELL SUPPLY CO., 215 Water. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Farmers' B'k bldg. (See adv. index, end of book)
 Rees, James & Sons, Duquesne way c 4th
SCAIFE, WM. B. & SONS CO., 221 1st av. (See adv. index, end of book)
POTTSTOWN—Sotter Bros. (Inc.)
POTTSVILLE—Sparks & Parker
READING—Keystone Boiler Works
 Orr & Sembower (Inc.) (Vertical, Horizontal & Locomotive)
 Reading Iron Co.
 Reading Scale & Machine Co.
SCRANTON—ALLIS-CHALMERS CO. (See adv. index, end of book)
 Fluch Mfg. Co., N 8th c W Linden
 Mursch, Fred, Jr., 500 Birch
SHAMOKIN—Mullen, John & Son
SHARON—Sharon Boiler Works, Ltd.
SHARPSVILLE—Sharpville Boiler Works
TATAMY—Messliger Mfg. Co. (Low Pressure)
TITUSVILLE—Titusville Iron Co. (Horizontal, Tubular & Fire Box)
TROY—Troy Engine & Machine Co.
TYRONE—Reader Bros. & Hoffman
WARREN—Hammond Iron Works
 Struthers-Wells Co. (of all Types)
WAYNESBORO—Frick Co.
 Gelsner Mfg. Co.
WILKES-BARRE—Backus, Peter B.
 Vulcan Iron Works
WILLIAMSPORT—KEELER, E. CO. (See adv. index, end of book)
YORK—Farquhar, A. B. Co. (Tubular)
 Motter, Geo. F. & Sons
 York Mfg. Co. (Ltd.) (Return Tubular)
 York Steam Boiler Works

RHODE ISLAND.

HOPE VALLEY—Nichols & Langworthy Machine Co.
PROVIDENCE—Almy Water Tube Boiler Co. (Marine)
 Globe Steam Boiler & Iron Works, 341 Eddy
 Hicks Boiler Works, 614 S Main
 Wholey Boiler Works, Concord off Smithfield av nr City Line

SOUTH CAROLINA.

CHARLESTON—Charleston Iron Works
 Riverside Iron Works
 Valk & Murdock Iron Works

SOUTH DAKOTA.

MITCHELL—Mitchell Boiler & Machine Works
SIoux FALLS—Harding, B. W.
WATERTOWN—Hanten Machine Co.

TENNESSEE.

CHATTANOOGA—Casey-Hedges Co. (Boilers of all kinds for all purposes)
 Chattanooga Boiler Works & Tank Co.
 Lookout Boiler & Mfg. Co.
 Sherman-Morris Mfg. Co.
 Walsh & Weidner Boiler Co.
JACKSON—Southern Engine & Boiler Works
KNOXVILLE—Dallas, B. B.
MEMPHIS—Memphis Boiler Works
 Shea, Daniel Boiler Works, Front & Wash
NASHVILLE—Culbert, Wm. & Sons, 127 S. Market

TEXAS.

BEAUMONT—Beaumont Iron Works
 Dollinger, Jno.
 Texas Boiler Works
DALLAS—Mosher Mfg. Co.
 Mosher Mfg. Co.
 Thrash, J. F.
FORT WORTH—Vanzandt-Moore Iron Works
GALVESTON—Astell Iron Works Co., 2615 Strand
 Bothman, Wm., 2509 Mechanic
 McDonough Iron Works, 1901 Strand
HOUSTON—Hartwell Iron Works
 Tofte Boiler & Sheet Iron Works
SAN ANTONIO—Alamo Iron Works
 Collins, Gunther
SHERMAN—Washington Iron Works
TEXARKANA—Texas Steam Engine Works

UTAH.

SALT LAKE CITY—Haynes, H. E. & Co.
 Holmes, Samuel
MINNEAPOLIS STEEL & MACHINE Co. (of Minneapolis), Dooley blk. (See adv. index, end of book)

VERMONT.

RUTLAND—Holmes, J. H. & Co.

VIRGINIA.

NEWPORT NEWS—Newport News Ship Building & Dry Dock Co.
NORFOLK—Etna Iron Works
RICHMOND—McCabe, Geo. & Son, 4016 7th. Fulton

WASHINGTON.

BALLARD—Ballard Boiler Works (Inc.)
BELLINGHAM—Reid Bros. Co.
EVERETT—Mohlander, E. W.
 Summer Iron Works
OLYMPIA—Mason, C. Z.
SEATTLE—Osborne, J. L. & Sons
 Puget Sound & Queen City Boiler Works (Marine & Stationary)
 Standard Boiler Works (Marine, Stationary & Locomotive)
 Washington Iron Works Co., Grant st bridge
SPOKANE—Cleary, J. E.
TACOMA—Norton, Wm., 2110 A
 Puget Sound Dry Dock & Machine Co., 1701 Dock
 Puget Sound Iron & Steel Works, A c 21st

WEST VIRGINIA.

CAIRO—Donovan, Hugh
CHARLESTON—South Side Foundry & Machine Works
 Vulcan Iron Works
 Ward, Chas. Engineering Works
MANNINGTON—West Virginia Boiler & Machine Co.
PARKERSBURG—Mountain State Boiler Works
SISTERSVILLE—Ryan, E. A.
WHEELING—Bryan & Dippus

WISCONSIN.

APPLETON—Appleton Steam Boiler & Mfg. Co.
ASHLAND—Sanders, Robt. E.
DE PERE—Lyon Boiler & Iron Works
HURLEY—Lambrix, Michael
JUNEAU—Briemann, C. G.
LA CROSSE—La Crosse Boiler Co.
MANITOWOC—Manitowoc Steam Boiler Works (Marine, Stationary & Locomotive)
MENOMONEE FALLS—Menomonee Falls Boiler Works
MILWAUKEE—ALLIS-CHALMERS CO. (See adv. index, end of book)
 American Boiler Works, 287 Virginia
 Buxbaum, James & Co., 287 Virginia
 Cream City Boiler Co.
 Mertes-Miller Co., 239 Lake
 Meyer, Geo. J. Mfg. Co., 576 Clinton
 Milwaukee Boiler Co.
 Milwaukee Dry Dock Co. (Marine), ft of Mineral
 Reliance Boiler Works, Canal, E Muskego av
VILTER MFG. CO., 1046 Clinton. (See adv. index, end of book)
OSKOSH—Battis Bros.
 Reliance Boiler Works
RACINE—Freeman, S. & Sons Mfg. Co.
SHEBOYGAN—Optenberg Iron Works Co. (Stationary & Marine)
SUPERIOR—National Boiler Works Co.
 Northwestern Boiler Works
WATERTOWN—Dornfeld-Kunert Co.

Boilers (Water Tube)

ABENDROTH & ROOT MFG. CO. ("Root"), Newburgh, N. Y. (See adv. index & branch offices, end of book)
 Ahern, Jas., 263 South, New York
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Almy Water Tube Boiler Co., Providence, R. I.
 Atlas Engine Works, Indianapolis, Ind.
 Babcock & Wilcox Co. ("Stirling," "Cahall," "A. & T."), 85 Liberty, New York
 Barton Boiler Co., 2427 Calumet av, Chicago, Ill.
 Bass Foundry & Machine Co., Ft. Wayne, Ind.
 Bath Iron Works ("Normand"), Bath, Me.
 Bay City Boiler Works, Bay City, Mich.
 Bigelow Co. ("Bigelow-Hornsby"), New Haven, Conn.
 Birmingham Boiler Works, Birmingham, Ala.
 Brennan, John & Co., 24th & Toledo, Detroit, Mich.
 Broomell, Schmidt & Steacy Co. ("American" Combination), York, Pa.
 Butman Engineering Co., Monadnock bldg, Chicago, Ill.
 Casey-Hedges Co., Chattanooga, Tenn.
 Crowley Boiler Works, Jackson, Mich.
 Detroit Water Tube Boiler Co., Detroit, Mich.
 Dundon's, P. F. San Francisco Iron Works ("Dundon's") Sectional, San Francisco, Cal.
 Edge Moor Iron Co., Edge Moor, Del.
 Ehlers, J. B. & Sons Mfg. Co., Enterprise, Kans.
 Erie City Iron Works (Horizontal & Vertical), Erie, Pa.
 Flanner, D. D. Boiler Co. ("Park"), Toledo, O.
 Fore River Ship Building Co. (Marine), Quincy, Mass.
 Franklin Boiler Works Co. ("Franklin"), Troy, N. Y.
 Freeman, S. & Sons Mfg. Co. ("Bonuss"), Racine, Wis.
 Gas Engine & Power Co. & C. L. Seabury Co. (Seabury Safety, Marine & Stationary), Morris Heights, N. Y.
 Geary Water Tube Boiler, 39 Cortlandt, New York, & Oil City, Pa.
 Hammond Iron Works, Warren, Pa.
 Harlan & Hollingsworth Corp. (Marine & Stationary), Wilmington, Del.
 Harrisburg Mfg. & Boiler Co. ("Star"), Harrisburg, Pa.
 Helne Safety Boiler Co., 421 Olive, St. Louis, Mo., & Phoenixville, Pa.
 Herreshoff Mfg. Co. (Herreshoff Patent), Bristol, R. I.
 Holyoke Steam Boiler Works, Holyoke, Mass.
 Hyde Bros. & Co. ("Hyde"), Pittsburg, Pa.
KEELER, E. CO., Williamsport, Pa. (See adv. index & branch offices, end of book)
 Kingsford Fdry & Mach Works, Oswego, N. Y.
 Lyon Boiler Works, De Pere, Wis.
 Lyons Boiler Works, De Pere, Wis.
 McNeil Boiler Co. ("Cook," up to 350 H. P.), Akron, O.
 Marine Iron Works, Clybourn & Southport avs, ft of C, Chicago, Ill.
 Maxim Co. ("Maxim"), 130 Fulton, New York
 Meehan Boiler & Constr'n Co., Lowellville, O.

Mohr, Jno. & Sons (Inc.), 32 Illinois, Chicago, Ill.
 Morrin-Climax Boiler Co. ("Climax"), 240 Loralne, Brooklyn, N. Y.
 Mosher, Chas. D. ("Mosher") Marine & Stationary, 30 Church, New York
 Munroe, R. & Sons, Corp., Pittsburg, Pa.
 Murray Iron Works Co., Burlington, Ia.
 New York Central Iron Works, Geneva, N. Y.
 New York Safety Steam Power Co. ("Worthington"), 114 Liberty, New York
 O'Brien, John Boiler Works Co., 11th & Mul-lanphy, St. Louis, Mo.
 O'Dougherty, Francis C. ("Economy"), 1875 Atlantic av, Brooklyn, N. Y.
 Ofeldt, F. W. & Sons (Small), Nyack, N. Y.
 Oil City Boiler Works (Inc.) ("Geary" Stationary & "Hohenslein" Marine), Oil City, Pa., & 39 Cortlandt, New York
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. Index, end of book)
 Oswego Boiler & Engine Co. ("Oswego Mc-Naul"), Oswego, N. Y.
 Parker Boiler Co. ("The Parker"), Pennsylvania bldg, Phila., Pa.
 Pfeiffer, Chrs. Boiler Co., 70 Michigan, Chicago, Ill.
 Ricard Boiler & Engine Co. ("The McNaull"), Toledo, O.
 Risdon Iron & Locomotive Works, San Francisco, Cal.
 Robb-Mumford Boiler Co., South Framingham, Mass.
 Roberts Safety Water Tube Boiler Co., Red Bank, N. J.
 Sharon Boiler Works ("Wheeler" Vertical), Sharon, Pa.
 Sherman, Morris Mfg. Co., Chattanooga, Tenn.
 Standard Boiler & Plate Co., Niles, O.
 Taylor Water Tube Boiler Co. (for Yachts, Tugs, etc.), Detroit, Mich.
 Thorpe, Platt & Co. ("Thornycroft"), 99 Cedar, New York
 Tudor Boiler Mfg. Co. ("Lynn"), Cincinnati, O.
 Union Iron Works Co., San Francisco, Cal.
 Vogt, Henry Machine Co. ("Vogt"), Louisville, Ky.
 Ward, Chas. Engineering Works, Charleston, W. Va.
 Wetherill, R. & Co. ("Berry"), Chester, Pa.
 Wickes Boiler Co. ("Wickes," Vertical & Horizontal), Saginaw, Mich.
 Wildman Boiler Works, 1276 W 12th, Chicago, Ill.
 Wood, John Mfg. Co., Conshohocken, Pa.

Bolsters (Car Truck & Body)

(See Car Truck & Body Bolsters)

Bolt Clippers

(See Clippers, Bolt & Rivet)

Bolt Cutters

(See Cutters, Bolt)

Bolt Ends

(See Ends, Bolt)

Bolt Header & Shoeing Vise (Combined)

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Bolt Headers

(See Machinery)

Bolt Pointers

(See Machinery)

Bolt Threaders

(See Machinery)

Bolt Upsetters

(See Machinery)

Bolt & Nut & Rivet Mfrs.

(See also Sub-classifications of Bolts; also of Nuts; also of Rivets; also of Screws; also of Washers)

ALABAMA.

BIRMINGHAM—American Bolt Co.
 Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers); Main Office: Pittsburg, Pa.

CALIFORNIA.

LOS ANGELES — California Industrial Co. (Bolts & Nuts)
 SAN FRANCISCO—Judson Mfg. Co., 819 Folsom
 Pacific Rolling Mill Co., 17th & Mississippi
 Payne's Bolt Works (Bolts, Screws, Washers, etc.), 133 Howard

COLORADO.

DENVER—Colorado Fuel & Iron Co. (Bolts, Nuts, etc.)

CONNECTICUT.

ANSONIA—Ansonia Brass & Copper Co. (Bronze Bolts)
 BRIDGEPORT—Columbia Nut & Bolt Co.
 HARTFORD—Atlantic Screws Works
 Hartford Machine Screw Co. (Bolts), 476 Capitol av
 MARION—Frost, L. D. & Son
 MILLEDALE—Clark Bros. Bolt Co. (Bolts & Nuts)
 MOUNT CARMEL—Mount Carmel Bolt Co. (Bolts, Nuts & Rivets)
 NEW BRITAIN—Corbin Screw Corporation
 Stanley Works (Steel Bolts) (Bolts, etc.)
 NEW HAVEN—American Rivet Co. (Rivets), Cowles, C. & Co. (Bolts)
 Reynolds & Co. (Bolts, Nuts, etc.)
 Sargent & Co. (Bolts, etc.)
 PLANTSVILLE—Atwater Mfg. Co. (Carriage Bolts)

SEYMOUR—New Haven Copper Co. (Copper)
 SHELTON—Bassett, D. M. (Bolts)
 Shelton Co. (Bolts, etc.)

SOUTHINGTON—Aetna Nut Co. (Nuts & Washers)
 TORRINGTON—Coe Brass Mfg. Co. (Rivets)
 Progressive Mfg. Co. (Rivets, etc.)
 UNIONVILLE—Upton Nut Co. (Bolts, Nuts, Rivets, etc.)

Upton Nut Co. (Bolts, Nuts, Rivets, etc.)
 WATERBURY—Benedict & Burnham Mfg. Co. (Copper)
 Blake & Johnson Co. (Special Rivets, etc.)
 Equipoise Rivet Co. (Brass Bolts, Nuts & Rivets)

Plume & Atwood Mfg. Co. (Brass & Copper Rivets)
 Scoville Mfg. Co. (Bolts, Nuts, etc., Brass)
 Steele & Johnson Mfg. Co. (Bolts, etc., Brass)

Waterbury Brass Co. (Brass & Copper Rivets & Washers)
 Waterbury Brass Goods Corp. (Brass Rivets)
 Waterbury Mfg. Co. (Rivets)

WINSTED—Moore, Franklin Co. (Bolts, Nuts, etc.)
 Richards, T. C. Hardware Co. (Bolts, Nuts, & Rivets)

ILLINOIS.

AURORA—Wilcox Mfg. Co. (Bolts)
 CHICAGO—American Screw Co. (Bolts, Rivets, etc.), 19 Lake
 Chicago Nut Co. (Brass Nuts, etc.), 118 W Jackson boul
 Columbia Screw Co. (Screws, etc.), Cottage Grove av & 106th
 Champlon Mfg. Co. (Screws, Bolts, etc.), 76th & Greenwood av
 Continental Bolt & Iron Works (Bolts, etc.), 22d & Union

Illinois Bolt, Nut & Forging Co. (Bolts, Rivets, etc.), 35th & Ashland av
 Illinois Steel Co. (Track Bolts), 115 Adams

EAST ST. LOUIS—St. Louis Steam Forge & Iron Works (Forged Nuts & Bolts)
 MARSEILLES—Moore, Joshua (Bolts, Rivets, etc.)

ROCK FALLS—Cobb & Drew (Small Bolts, Rivets, etc.)

Russell-Burdsall & Ward Bolt & Nut Co.
 ROCKFORD—Rockford Bolt Co. (Bolts, Rivets & Nuts)

INDIANA.

RICHMOND—Border Bolt & Nut-Lock Co. (Bolts, Nut-Locks, etc.)

MARYLAND.

BALTIMORE—Baltimore Bolt & Iron Works
 (Armstrong & Parker, Prop'rs) (Bolts, Nuts & Washers), 361 North
 Dietrich Bros. (Bolts & Nuts), 344 North
 National Supply Co. (Bolts, Nuts & Washers), 7 W Lombard

MASSACHUSETTS.

BOSTON—American Iron & Steel Mfg. Co. (Bolts & Nuts), 141 Milk
 Boston Bolt Co. (Bolts, Nuts, Rivets, etc.), 40 Farnsworth
 Metropolitan Bolt Co. (Bolts, etc.), 367 Congress
 New England Screw Co., 15 Chardon
 Standard Rivet Co., 41 Lincoln
 Sylvester Co. (Bolts, Spikes, etc.), 70 Kilby
 Tubular Rivet & Stud Co. (Rivets), 87 Lincoln

EVERETT—New England Bolt & Steel Co. (Bolts, Nuts & Washers)

PLYMOUTH—Cobb & Drew (Small Bolts, Rivets, etc.)

Plymouth Mills (Rivets & Washers)

TAUNTON—Taunton Rivet Co. (Rivets & Washers)

WORCESTER — Anthony Screw Co. (Bolts, Nuts, etc.)

Reed & Prince Mfg. Co. (Bolts, Nuts & Rivets)

Smith, Thos. & Co. (Bolts, Nuts & Washers)

W. & S. Mfg. Co. (Nuts & Washers)

MICHIGAN.

DETROIT—Detroit Copper & Brass Rolling Mills (Rivets)
 Detroit Screw Works (Bolts & Nuts)
 Michigan Bolt & Nut Works (Bolts, Nuts, Rivets & Washers), ft Meldrum av

MISSOURI.

KANSAS CITY—Kansas City Bolt & Nut Co. (Bolts Nuts, Rivets & Washers), Inde av c Bristol

ST. LOUIS—American Car & Foundry Co., 915 Olive

Banner Iron Works (Bolts)
 Hirsch Rolling Mill Co. (Bolts & Nuts), Nat'l Bank of Com. bldg

Moran Bolt & Nut Mfg. Co. (Bolts, Nuts, Rivets, Screws & Washers), c Florida & Main

St. Louis Screw Co. (Bolts, Nuts, etc.), 600 E Clarence av

NEW JERSEY.

JERSEY CITY—Ames, W. & Co. (Bolts)

NEWARK—Newark Rivet Works (Rivets), 262 Lafayette

NEW YORK.

BUFFALO—Buffalo Bolt Co.
 Niagara Screw Co. (Bolts, Nuts & Screws), Wurtz & Son, 23 Lloyd 20 Lock

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Evans, F. H. (Bolts), 596 Kent av

Upham, V. B. & Bro. (Rivets), John c Hudson av

Boroughs of Manhattan & Bronx.

NEW YORK — American Car & Foundry Co., 165 B'way

FARRINGTON, H. (Farrington Expansion Bolts), 45 B'way. (See adv. index, end of book)

Gaskell, Wm. & Son (Bolts), 433 E 25th

Greenlie, Wyatt & Co. (Bolts, Nuts, Rivets & Washers), 499 Water

Hall's, Samuel Sons (Bolts, Screws & Washers), 229 W 10th

(End of New York City)

NORTH TONAWANDA—Buffalo Bolt Co.

PORT CHESTER—Russell, Burdsall & Ward Bolt & Nut Co. (Bolts, Nuts & Washers)

POUGHKEEPSIE—Anchor Bolt & Nut Co. (Bolts, etc.)
ROCHESTER—Rochester Machine Screw Co. (Nuts, etc.), 15 Caledonia av
ROME—Rome Brass & Copper Co. (Copper Rivets & Washers, etc.)
SYRACUSE—Central City Bolt Co. (Bolts & Nuts)
THROOPSVILLE—Myer & Co. (Nuts & Washers)
TROY—Burden Iron Co. (Rivets)

OHIO.

BEREA—Ohio Nut & Bolt Co.
CINCINNATI—Elden, T. G. (Nuts, Rivets, etc.), 115 Sycamore
 Nunning, Frank & Son (Bridge Bolts), 215 W 2d
 Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), First Nat'l Bank bldg
CLEVELAND—**ATLAS BOLT & SCREW** Co. The (Bolts, Nuts, Rivets, Screws, etc.), Marquette, opp Hamilton av, N E
BETTCHEMFG. CO. (Nuts, Rivets, Washers, etc.), Clark av at C. O. C. & St. Louis Ry., S W. (See adv. index, end of book)
 Bourne & Knowles Mfg. Co. (Nuts, Rivets & Washers), 1231 Main av, N W
 Champion Rivet Co. (Rivets), Rice av at Erie R. R.
 Cleveland City Forge & Iron Co. (Nuts), Lakeside av opp E 45th
 Columbia Bolt & Forging Co. (Bolts), Willey c Walworth av, S. W.
 Eberhard Mfg. Co. (Carriage Bolt & Nut)
 Electric Welding Products Co. (Bolts, Screws, etc.)
 Kirk-Latty Mfg. Co. (Bolts, Nails, Rivets, Screws, etc.), Madison av nr W 85th.
 Lake Erie Iron Co. (Bolts, Nuts & Washers), Wade bldg
 Lamson & Sessions Co. (Bolts, Nuts & Rivets), 2188 Scranton rd, S W
 National Screw & Tack Co. (Bolts, Nuts & Rivets), Stanton & C. & P. R. R.
 Upson Nut Co. (Bolts, Nuts & Rivets), C., C. & St. L. Ry. nr Scranton av
COLUMBUS—Berry Bros. (Bolts, Nuts & Rivets)
 Columbus Bolt Works (Bolts, Nuts, Rivets, Screws & Washers)
 Lanman, E. B. Co. (Carriage Bolts, Nuts & Washers)
OUYAHOGA FALLS—Falls Rivet & Machine Co.
ELYRIA—Western Automatic Machine Screw Co. (Bolts, Nuts, etc.)
TWIGHTWEE—Cincinnati Screw & Tap Co. (Bolts, Nuts, etc.)

PENNSYLVANIA.

ETNA—Etna Forge & Bolt Co.
GLASSPORT—Severence, S. Mfg. Co. (Rivets, Spikes, etc.)
LANCASTER—Penn Iron Co. (Ltd.) (Bolts & Nuts)
LEBANON—American Iron & Steel Mfg. Co. (Bolts, Nuts, Rivets & Washers)
MILTON—Milton Mfg. Co. (Bolts, Nuts & Washers)
NEW CASTLE—New Castle Forge & Bolt Co. (Bolts & Rivets)
NORRISTOWN—American Equipment Co. (Bolts, Nuts, etc.)
 Reading Screw Co. (Stove & Fire Bolts)

PHILADELPHIA—American Iron & Steel Mfg. Co. (Bolts, Nuts, Rivets, etc.), Harrison bldg
 Cambria Steel Co. (Bolts), Arcade bldg
 Hayden, A. & M., 304 N 22d
 Hoopes & Townsend Co. (Bolts, Nuts, Rivets, Screws & Washers), 1330 Button-Kurrie Bros. Co., 637 N Watts wood
 Merritt & Co. (Bolts, Nuts, Rivets, etc.), 1024 Ridge av
 National Bolt Works, 1630 N 9th
 Philadelphia Machine Screw Works (Bolts, etc.), 624 Race
 Ruffner, D. B. & Son (Bolts), Bowman nr Cresson Falls
 Skelly, Thos. P. & Co. (Bolts), Carlton nr N 24th
PITTSBURGH—Flannery Bolt Co., Frick bldg
 Garland Nut & Rivet Co., Bailey-Farrell bldg
 Graham Nut Co., W Carson nr Point bridge
 Hubbard & Co. (Bolts, Nuts, etc.)
 Hussey, C. G. & Co. (Rivets, Copper), 2850 2d av
 Interstate Mfg. Co. (Bolts), 133 4th av
 Lanz, M. & Sons (Bolts, Nuts, Rivets & Washers), Carson & 29th
 National Bolt & Nut Co., 62d & A. V. R. R.
 Neely Bolt & Nut Co. (Ltd.), (Bolts, Nuts, Washers, etc.)
 Oliver Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), S. 10th & Muriel
 Pittsburg Equipment Co. (Bolts, Nuts, etc.), House bldg
 Pittsburg Forge & Iron Co. (Bolts, etc.)
 Pittsburg Mfg. Co. (Bolts, Nuts, Rivets & Washers), 28th & A. V. Ry
PITTSBURGH RIVET CO., 38th & Junction R. R. (See adv. index, end of book)
 Pittsburg Screw & Bolt Co. (Bolts, Nuts & Rivets), 25th & Liberty av
 Republic Iron & Steel Co. (Bolts, Nuts, Rivets, Screws & Washers), Frick bldg, Annex
POTTSVILLE—Pottsville Bolt Co. (Bolts & Screws)
READING—American Iron & Steel Mfg. Co.
SCRANTON—Scranton Bolt & Nut Co. (Bolts, Nuts, Rivets, Screws & Washers)

RHODE ISLAND.

PAWTUCKET—Haskell, Wm. H. Mfg. Co. (Bolts, Nuts, Screws & Washers)
 Pawtucket Mfg. Co. (Bolts, Screws, etc.)
PROVIDENCE—American Screw Co. (Bolts, Nuts & Rivets), 21 Stevens
 Eastern Bolt & Nut Co.
 Rhode Island Tool Co. (Bolts, Nuts & Washers)
 Rogers Screw Co., 623 Atwells av
VALLEY FALLS—Standard Nut & Bolt Co.

VIRGINIA.

RICHMOND—Old Dominion Iron & Nail W'ks Co. (Bolts, Nuts, Rivets, Spikes, Washers, etc.)
 Tredegar Co. (Bolts, Spikes, etc.)

WASHINGTON.

BALLARD—Ballard Drop Forge Co. (Bolts, Nuts, Rivets)

WEST VIRGINIA.

WHEELING—Hazel Atlas Glass Co. (Bolts, Nuts & Washers)

WISCONSIN.

MILWAUKEE—Elastic Nut & Bolt Co., Russell av c Superior
 Milwaukee Tack Co. (Rivets), Wahl c 27th av

Bolt & Screw Cases

American Bolt & Screw Case Co., Dayton, O.
 Green, A. H. Co., 22 Park row, New York
 Heller, W. C. Co., Montclair, N. J.
 Warren, J. D. Mfg. Co., Masonic Temple, Chicago, Ill.

Bolt & Shield (Expansion)

DIAMOND EXPANSION BOLT CO. ("Diamond"), 90 West, New York. (See adv. index & branch offices, end of book)
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

***Bolters ("Monarch" Self-Balancing)**

SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)

***Bolters (Universal)**

ALLIS-CHALMERS CO. (with Vibromotor Drive), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Bolting Cloth

(See also Wire Cloth)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Bolting Cloth Co., St. Louis, Mo.
 Buffalo Weaving Co. (Webs), Buffalo, N. Y.
 Charles, J. M., 59 Pearl, New York

ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)

Gump, B. F. Co. (Silk), S Clinton, Chicago, Ill.
 Hammond-Homburger Co. ("Excelsior Anchor"), Silver Creek, N. Y.

HOWARD & MORSE (Wire), 45 Fulton, New York. (See adv. facing first page of Index of Contents)

Latimer, R. L. & Co. ("Anchor Brand"), 24 N Front, Philadelphia, Pa.

MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

Nordyke & Marmon Co. (Silk & Wire), Indianapolis, Ind.

SPROUT, WALDRON & CO. (Silk & Wire), Muncy, Pa. (See adv. index, end of book)

Starr, B. F. Co. (Swiss Silk), 455 North, Baltimore, Md.

Tobler & Co. ("Dufour" Silk), 35 S William, New York

TYLER, W. S. CO. (Wire), Cleveland, O. (See adv. index & branch offices, end of book)

Bolts (Anchor)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Church, Isaac, S Norwalk, Conn.

DIAMOND EXPANSION BOLT CO., 90 West, New York. (See adv. index & branch offices, end of book)

**PITTSBURGH RIVET COMPANY**

PITTSBURGH, PA.

RIVETS

STRUCTURAL,
BOILER,
SHIP

BOLTS

FOUNDATION,
BRIDGE,
SPECIAL, Up to 4½-in. diameter

RODS

UPSET
and
PLAIN

Forgings

OF ALL
DESCRIP-
TIONS

FARRINGTON, H. (Expansion), 45
B'way, New York. (See adv. index, end of book)

Lanz, M. & Sona, Carson & 29th, Pittsburg, Pa.
National Bolt & Nut Co., Pittsburg, Pa.
Penna. Iron Co., Lancaster, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

STAR EXPANSION BOLT CO. ("Star"),
147 Cedar, New York. (See adv. index & branch offices, end of book)

Variety Mfg. Co. (Of All Kinds, etc.), Sacramento & Carroll av, Chicago, Ill.

Bolts (Barn Door)

Arcade Mfg. Co., Freeport, Ill.
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Sargent & Co., New Haven, Conn., & 94 Centre, New York

Bolts (Barrel)

Griffin Mfg. Co. (Wrought Steel), Erie, Pa.
Hardware & Woodenware Mfg. Co., 826 B'way, New York

National Supply Co., 7 W Lombard, Baltimore, Md.
New England Bolt & Steel Co., 3 Charlton, Everett, Mass.

Peck, Stow & Wilcox Co., Southington, Conn.
Penn. Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Sargent & Co., 94 Centre, New York, & New Haven, Conn.
Shelby Spring Hinge Co. (Wrought Steel), Shelby, O.

STANLEY WORKS (Wrought Steel),
New Britain, Conn. (See adv. index & branch offices, end of book)

Bolts (Belt or Elevator)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
American Screw Co., Providence, R. I., & 19 Lake, Chicago, Ill.

Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co. (Elevator), Milldale, Conn.
Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.

Columbus Bolt Works, Columbus, O.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Lake Erie Iron Co. (Elevator), Wade bldg., Cleveland, O.

Lamson & Sessions Co., Cleveland, O.
Moore & Lorenz Co. (Elevator), 816 Fulton, Chicago, Ill.

Moran Bolt & Nut Mfg. Co., Florida c Main, St. Louis, Mo.

Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Rockford Bolt Works, Rockford, Ill.
Smith, Thos. & Co., Worcester, Mass.
Union Nut & Bolt Co., 107 Chambers, New York

Bolts (Bicycle)

Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.

DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. index, end of book)

NATIONAL - ACME MFG. CO., 7500
Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

National Screw & Tack Co., Cleveland, O.
Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.

Bolts (Boiler Patch)

American Iron & Steel Mfg Co., Lebanon & Reading, Pa.

Anthony Screw Co., Worcester, Mass.
Chicago Screw Co., 2 N Canal, Chicago, Ill.
Cincinnati Screw & Tap Co., Twilight, O.
Cleveland Cap Screw Co., Cleveland, O.
Corbin Screw Corporation, New Britain, Conn.
Dangel, W. H. & Co., 140 Dearborn, Chicago, Ill.

DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. index, end of book)

Falls Hollow Stay Bolt Co., Cuyahoga Falls, O.
Hall's. Samuel Sons, 229 W 10th, New York
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Lake Erie Iron Co., Wade bldg., Cleveland, O.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Bolt & Nut Co., Pittsburg, Pa.
Niagara Screw Co., Buffalo, N. Y.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Rhode Island Tool Co., Providence, R. I.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.

Worcester Machine Screw Co., Worcester, Mass.

Bolts (Boiler Stay)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Dangel, W. H. & Co., 140 Dearborn, Chicago, Ill.

Falls Hollow Stay Bolt Co., Cuyahoga Falls, O.
Flannery Bolt Co. ("Tate" Flexible), Frick bldg, Pittsburg, Pa.

Ford, C. B. Co. (Inc.), Richmond, Va.
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanz, M. & Sona, Carson & 29th, Pittsburg, Pa.

Lockhart Iron & Steel Co., Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Bolt & Nut Co., Pittsburg, Pa.
National Supply Co., Baltimore, Md.
Pittsburg Mfg. Co., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Rockford Bolt Works, Rockford, Ill.
St. Louis Screw Co., St. Louis, Mo.
Thompson, Chas. A. ("Acme" Flexible), 514 N 3d, St. Louis, Mo.

Walker & Ehrman Mfg. Co., 127 W Washington, Chicago, Ill.

Bolts (Brass & Copper)

American Iron & Steel Mfg. Co. (Brass & Bronze Only), Lebanon & Reading, Pa.

Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.

DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. index, end of book)

Equipoise Rivet Co. (Brass for Plumbers' Use), Waterbury, Conn.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hendricks Bros. (Copper Only), 49 Cliff, New York

HUNGERFORD, U. T. BRASS & COP-
per Co., 497 Pearl, New York

NATIONAL - ACME MFG. CO., 7500
Stanton av, S E, Pittsburg, O. (See adv. index & branch offices, end of book)

National Supply Co., 7 W Lombard, Baltimore, Md.

New Haven Copper Co. (Copper), Seymour, Conn., & 114 Chambers, New York

Pawtucket Mfg. Co., Pawtucket, R. I.
Peck, Stow & Wilcox Co., Southington, Conn.
Phosphor Bronze Smelting Co., (Ltd.), 2200 Wash'n av, Phila., Pa.

Reading Hardware Co. (Brass), Reading, Pa.
Rockford Bolt Co. (Brass), Rockford, Ill.
Taunton-New Bedford Copper Co. (Yellow Metal Only), New Bedford, & Taunton, Mass.

Bolts (Bridge & Structural)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Boston Bolt Co., 40 Farnsworth, Boston, Mass.
Central City Bolt Co., Syracuse, N. Y.
Colorado Fuel & Iron Co., Denver, Colo.
Columbus Bolt Works, Columbus, O.

Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.

Gaskell, Wm. & Son, 433 E 25th, New York

Graham Nut Co., W Carson nr Point bridge, Pittsburg, Pa.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.

Judson Mfg. Co., San Francisco, Cal.

Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.

McGookin, D. H. & Co., 1630 N 9th, Phila., Pa.

Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Bolt Works, 1630 N 9th, Phila., Pa.
National Bolt & Nut Co., Pittsburg, Pa.

National Supply Co., 7 W Lombard, Baltimore, Md.

New England Bolt & Steel Co., 3 Charlton, Everett, Mass.

Nunnling, Frank & Son, 215 W 2d, Cincinnati, O.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Forge & Iron Co., 1003 Penna. av, Pittsburg, Pa.

Pittsburg Mfg. Co., 28th & A. V. R. R., Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Reynolds & Co., 321 East, New Haven, Conn.
Rockford Bolt Co., Rockford, Ill.

SCAIFE, WM. B. & SONS CO., 221 1st,
av, Pittsburg, Pa. (See adv. index, end of book)

Scranton Bolt & Nut Co., Scranton, Pa.
Simons & Sons, Spokane, Wash.
Smith, Thos. & Co., Worcester, Mass.
Sylvester Co., 70 Kilby, Boston, Mass.

Union Nut & Bolt Co., 107 Chambers, New York

Upson Nut Co., Unionville, Conn., & Cleveland, O.

Wurtz & Son, 23 Lloyd, Cleveland, O.

Bolts (Bronze)

(See Bolts, Brass & Copper)

*Bolts (Cam)

NATIONAL - ACME MFG. CO., 7500
Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

Bolts (Car)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.

Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., Florida c Main, St. Louis, Mo.

National Bolt & Nut Co., Pittsburg, Pa.
National Supply Co., 7 W Lombard, Baltimore, Md.

Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Pottsville Bolt Co., Pottsville, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.
Youngstown Mfg. Co., Youngstown, O.

Bolts (Carriage)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Anchor Bolt & Nut Co., Poughkeepsie, N. Y.

ATLAS BOLT & SCREW CO., THE,
Marquette, opp Hamilton av, N E, Cleveland, O

Bassett, D. M. Bolt Works, Shelton, Conn.

Berry Bros., Columbus, O.

BETTCHEE MFG. CO., Clark av, at
C. C. C. & St. Louis ry, S W, Cleveland, O.
(See adv. index, end of book)

Border Bolt & Nut-Lock Co., Richmond, Ind.

Buffalo Bolt Co., North Tonawanda, N. Y.

Central City Bolt Co., Syracuse, N. Y.

Clark Bros. Bolt Co., Milldale, Conn.

Columbus Bolt Works (Common & "Eagle"), Columbus, O.

Cowles, C. & Co., New Haven, Conn.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Frost, L. D. (Est. of), Marion, Conn.

Garland Nut & Rivet Co., Pittsburg, Pa.

Haydon, A. & M., 304 N 22d, Phila., Pa.

Hazel Atlas Glass Co., Wheeling, W. Va.

Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Hubbard & Co., Pittsburg, Pa.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Kirk-Latty Mfg. Co., Madison av nr W 85th, N W, Cleveland, O.

Lake Erie Iron Co., Wade bldg., Cleveland, O.

Lamson & Sessions Co., 2188 Scranton rd, S W, Cleveland, O.
 Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Milton Mfg. Co., Milton, Pa.
 Moore, Franklin Co., Winsted, Conn.
 Moran Bolt & Nut Mfg. Co., Florida c Main, St. Louis, Mo.
 National Bolt & Nut Co., Pittsburg, Pa.
 National Screw & Tack Co., Cleveland, O.
 National Supply Co., 7 W Lombard, Baltimore, Md.
 Neely Nut & Bolt Co., S 22d & P. & L. R. R., Pittsburg, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
 New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
 Oliver Iron & Steel Co., Pittsburg, Pa. (book)
 Payne's Bolt Works, 121 Howard, San Francisco, Cal.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Shelton Co., Shelton, Conn.
 Skelly, Thos. P. & Co., 24th, below Callowhill, Phila., Pa.
 Upson Nut Co. (Common, "Philadelphia," "Coleman Eagle"), Unionville, Conn., & Cleveland, O.
 Wilson & Smith, Worcester, Mass.

Bolts (Collar)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
 Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
 Hall's, Samuel Sons, 229 W 10th, New York
 Michigan Bolt & Nut Works, Detroit, Mich.
NATIONAL-ACME MFG. CO. (Milled), 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Oliver Iron & Steel Co., Pittsburg, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)
 Rhode Island Tool Co., Providence, R. I.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Western Automatic Machine Screw Co., Elyria, Ohio

Bolts (Copper Soldering)

Ansonia Brass & Copper Co., 99 John, New York, Works, Ansonia, Conn.
 Clendenin Bros., Baltimore, Md.
 New Haven Copper Co., Seymour, Conn.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Taunton-New Bedford Copper Co., Taunton, Mass., & New Bedford, Mass.

Bolts (Countersunk)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
 Columbus Bolt Works, Columbus, O.
 Garland Nut & Rivet Co., Pittsburg, Pa.
 Hall's, Samuel Sons, 229 W 10th, New York
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lamson & Sessions Co. (Round Head, etc.), 2188 Scranton rd, S W, Cleveland, O.
 Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moore, Franklin Co., Winsted, Conn.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 Mount Carmel Bolt Co., Mount Carmel, Conn.
NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
 National Bolt & Nut Co., Pittsburg, Pa.
 National Supply Co., 7 W Lombard, Baltimore, Md.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Oliver Iron & Steel Co., Pittsburg, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Rhode Island Tool Co., Providence, R. I.
 Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (Coupling)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
 Anthony Screw Co., Worcester, Mass.
 Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Cincinnati Screw & Tap Co., Twilight, O.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
 Electric Welding Products Co., Cleveland, O.
 Haskell, Wm. H. Mfg. Co. (Nut, Tapped, etc.), Pawtucket, R. I.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lake Erie Iron Co., Wade bldg., Cleveland, O.
NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
 Niagara Screw Co., Buffalo, N. Y.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Pittsburg Screw & Bolt Co., 25th & Liberty av, Pittsburg, Pa.
 Reynolds & Co. (Milled), 321 East, New Haven, Conn.
 Rhode Island Tool Co. (Milled Hexagon Head & Nuts), Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 St. Louis Screw Co., St. Louis, Mo.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
 Western Automatic Machine Screw Co., Elyria, Ohio
 Winsted-Norway Bolt Co., West Winsted, Conn.

Bolts (Cross Arm)

American Iron & Steel Mfg. Co. (Galvanized), Lebanon, & Reading, Pa.
 Columbus Bolt Works, Columbus, O.
 Garland Nut & Rivet Co., Pittsburg, Pa.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
 Hubbard & Co., Pittsburg, Pa.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 National Bolt & Nut Co., Pittsburg, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Phila. Electrical & Mfg. Co. ("Pemco," Malleable Spacer & Cross Arm Bolt), 1232 N 31st, Phila., Pa.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Bolts (Crown-Bar)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Bolts (Cupboard)

Russell & Irwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Bolts (Door & Window)

Arcade Mfg. Co., Freeport, Ill.
 Champion Safety Lock Co. (Mortise Door), Geneva, O.
 Corbin Cabinet Lock Co. (Double Door, etc.), New Britain, Conn.
 Griffin Mfg. Co., Erie, Pa.
 Ives, Hobart B. Co., New Haven, Conn.
 Norwalk Lock Co., So. Norwalk, Conn.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Peters, Jas. Son (Fire Door), 1934 N Front, Phila., Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Centre, New York
 Sargeant & Greenleaf Co. ("The Gem"), 178 Court, Rochester, N. Y.
STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)
 Taylor & Boggis Foundry Co., Cleveland, O.
 Yale & Towne Mfg. Co., 9 Murray, New York

Bolts (Double End)

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

Bolts (Double Expansion, Hitching Rings)

(See Bolts, Expansion, Single & Double)

Bolts (Drift)

American Iron & Steel Mfg. Co., Lebanon, & Reading, Pa.
ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Columbus Bolt Works, Columbus, O.
FARRINGTON, H., 45 B'way, New York. (See adv. index, end of book)
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
 Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.
 Jones & Laughlin Steel Co. (Round & Square), Pittsburg, Pa.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 National Bolt & Nut Co., Pittsburg, Pa.
 National Supply Co., 7 W Lombard, Baltimore, Md.
 New Castle Forge and Bolt Co., New Castle, Pa.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Oliver Iron & Steel Co., Pittsburg, Pa.
PITTSBURGH RIVET CO. (Round & Square), 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Severance, S. Mfg. Co., Pittsburg, Pa.

Bolts (Elevator)

(See Bolts, Belt & Elevator)

Bolts (Expansion)

Boones, Wm., Port Richmond, New York
 Brohard Co., 1624 N 9th, Phila., Pa.
 Church, Isaac, South Norwalk, Conn.
DIAMOND EXPANSION BOLT CO. ("Diamond" & "Keystone"), 90 West, New York. (See adv. index & branch offices, end of book)
 Evans, F. H. ("Crescent"), 596 Kent av, Brooklyn, N. Y.
FARRINGTON, H., 45 B'way, New York. (See adv. index, end of book)

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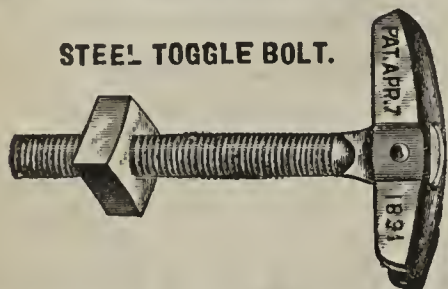
G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)
McCABE HANGER MFG. CO., 425 W.
25th. New York. (See adv. index, end of book)

STAR EXPANSION BOLT CO. ("Star")
All Kinds, 147 Cedar, New York. (See
adv. index & branch offices, end of book)
STEWART & ROMAINE MFG. CO.,
124 N 6th, Phila., Pa. (See adv. index,
Wileox Mfg. Co., Aurora, Ill. end of book)

STEWART & ROMAINE MFG. CO.,
154 N 6th, Phila., Pa. (See adv. index,
end of book)

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Richards Mfg. Co., Aurora, Ill.
Seaman, A. C. 1638 Hutchinson, Phila., Pa.

*Bolts (Expansion Brass)

DIAMOND EXPANSION BOLT CO.
("Diamond" & "Keystone"), 90 West, New
York. (See adv. index & branch offices,
end of book)

STAR EXPANSION BOLT CO. ("Star"),
147 Cedar, New York. (See adv. index &
branch offices, end of book)

Bolts (Expansion Eye)

(See Bolts, Expansion)

*Bolts (Expansion, for Concrete
Work)

DIAMOND EXPANSION BOLT CO.
("Diamond" & "Keystone"), 90 West, New
York. (See adv. index & branch offices,
end of book)

FARRINGTON, H., 45 B'way, New
York. (See adv. index, end of book)
STAR EXPANSION BOLT CO. ("Star"),
147 Cedar, New York. (See adv. index &
branch offices, end of book)

*Bolts (Expansion, Single &
Double)

DIAMOND EXPANSION BOLT CO., 90
West, New York. (See adv. index & branch
offices, end of book)

FARRINGTON, H., 45 B'way, New
York. (See adv. index, end of book)
Schroder, J. B. & Co. (Double Expansion for
Fire Doors), Cincinnati, O.

STAR EXPANSION BOLT CO. ("Star"),
147 Cedar, New York. (See adv. index &
branch offices, end of book)

Bolts (Expansion Switch Board)

(See Bolts, Expansion)

Bolts (Extension)

Yale & Towne Mfg. Co., 9 Murray, New York

Bolts (Eye)

(See Bolts, Hook & Eye)

Bolts (Forged)

National Bolt & Nut Co., Pittsburg, Pa.

Bolts (Foundation)

American Iron & Steel Mfg. Co., Lebanon &
Reading, Pa.

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index,
end of book)

Church, Isaac (Expansion), South Norwalk, Conn.
Continental Bolt & Iron Works, 22d & Union,
Chicago, Ill.

Fort Pitt Forge Co., 26th & Liberty, Pitts-
burg, Pa.

Graham Nut Co., W Carson nr Point Bridge,
Pittsburg, Pa.

Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.

Illinois Bolt, Nut & Forging Co., 35th & Ash-
land av, Chicago, Ill.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Lanz, Matthew & Sons, 101 S 29th, Pitts-
burg, Pa.

Metropolitan Bolt Co., 367 Congress, Boston,
Mass.

Michigan Bolt & Nut Works, Detroit, Mich.

Moran Bolt & Nut Mfg. Co., Florida, c Main,
St. Louis, Mo.

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National Bolt & Nut Co., Pittsburg, Pa.
National Supply Co., 7 W Lombard, Baltimore, Md.

New Castle Forge & Bolt Co., New Castle, Pa.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Penn Iron Co., Lancaster, Pa.
Pittsburg Forge & Iron Co., 1003 Penna. av, Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.
Scranton Bolt & Nut Co., Scranton, Pa.
Wendt, Albert, 456 E 2d, Cincinnati, O.
Wrigley, Thos. Co., 300 Dearborn, Chicago, Ill.

Bolts (Galvanized)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Hoopes & Townsend Co., Philadelphia, Pa.
Hubbard & Co., Pittsburg, Pa.
Lamson & Sessions Co., Cleveland, O.
National Bolt & Nut Co., Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.

Bolts (Hanger)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Clark Bros. Bolt Co., Milldale, Conn.
Lake Erie Iron Co., Wade bldg, Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Reed & Prince Co., Worcester, Mass.
Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (Harvey Grip)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lake Erie Iron Co., Cleveland, O.

Bolts (Hook Head)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Berry Bros., E 1st av & R. R., Columbus, O.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Keystone Drop Forge Works (Weldless), Chester, Pa.
Lanz, Matthew & Sons, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Mount Carmel Bolt Co., Mount Carmel, Conn.
Pittsburg Bolt & Screw Co., Pittsburg, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (Hook & Eye)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
ANDERSON FORGE & MACHINE CO. (Special Eye), 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Billings & Spencer Co. (Galvanized Drop Forged Eye), Hartford, Conn.

Central City Bolt Co., Syracuse, N. Y.
Clark Bros. Bolt Co., Milldale, Conn.
Columbus Bolt Works, Columbus, O.
Garland Nut & Rivet Co., Pittsburg, Pa.
Hall's, Samuel Sons (Forged), 229 W 10th, New York

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co., Wheeling, W. Va.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Hubbard & Co. (Welded), Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.

Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.
Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., Florida, cor Main, St. Louis, Mo.

National Bolt & Nut Co., Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., 3 Charlton, Everett, Mass.

Oliver Iron & Steel Co., Pittsburg, Pa.
PAGE-STORMS DROP FORGE CO. (Weldless Drop Forged, Blank or Threaded), Chicopee, Mass. (See adv. index, end of book)

Pawtucket Mfg. Co., Pawtucket, R. I. book)
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Rhode Island Tool Co. (Blank or Threaded Steel Eye), Providence, R. I.

Sargent & Co., New Haven, Conn., & 94 Centre, New York

Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co. (Screw), Worcester, Mass.

STEWART & ROMAINE MFG. CO., 124 W 6th, Phila., Pa. (See adv. index, end of book)

Transue & Williams Co. (Drop Forged), Alliance, O.

Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Vaughn & Bushnell Mfg. Co. (Drop Forged Eye), 875 W Carroll av, Chicago, Ill.

Wilcox, D. Mfg. Co. (Drop Forged Eye), Mechanicsburg, Pa.

Williams, J. H. & Co. (Drop Forged), 150 Hamilton av, Brooklyn, N. Y.

Wire Goods Co., Worcester, Mass.

Bolts (Insulated Suspension)

Cutter, Geo. Co. ("Cutters"), South Bend, Ind.

Bolts (Key)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.

Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Kropp, A. & Co., 52 Law av, Chicago, Ill.

Lamson & Sessions Co., Cleveland, O.

Michigan Nut & Bolt Works, Detroit, Mich.

Moran Bolt & Nut Mfg. Co., Florida & Main St. Louis, Mo.

National Bolt & Nut Co., Pittsburg, Pa.

National Supply Co., 7 W Lombard, Baltimore, Md.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Rhode Island Tool Co., Providence, R. I.

Scranton Bolt & Nut Co., Scranton, Pa.

Bolts (King)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Bolts (Loom)

Clark Bros. Bolt Co., Milldale, Conn.

Garland Nut & Rivet Co., Pittsburg, Pa.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

Rhode Island Tool Co., Providence, R. I.

Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Bolts (Machine)

American Equipment Co., Norristown, Pa.

American Iron & Steel Mfg. Co., Lebanon, Pa.

Anchor Bolt & Nut Co., Poughkeepsie, New York

Berry Bros., E 1st av & R. R., Columbus, O.

BETTCHEE MFG. CO., Clark av, at C. C. & St. Louis ry, S W, Cleveland, Q. (See adv. index, end of book)

Border Bolt & Nut-Lock Co., Richmond, Ind.

Boston Bolt Co., 40 Farnsworth, Boston, Mass.

Buffalo Bolt Co., North Tonawanda, N. Y.

Cambria Steel Co., Arcade bldg, Phila., Pa.

Central City Bolt Co., Syracuse, N. Y.

Clark Bros. Bolt Co., Milldale, Conn.

Colorado Fuel & Iron Co., Denver, Colo.

Columbus Bolt Works, Columbus, O.

Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.

Corbin Screw Corporation, New Britain, Conn.

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)

Dietrich Bros., 344 North, Baltimore, Md.

Elastic Nut & Bolt Co., Milwaukee, Wis.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Garland Nut & Rivet Co., Pittsburg, Pa.

Gaskeli, Wm. & Son, 433 E 25th, New York

Graham Mfg. Co., Cleveland, O.

Graham Nut Co., W Carson nr Point Bridge, Pittsburg, Pa.

Greenlie, Wyatt & Co., 499 Water, New York

Hall's, Samuel Sons, 229 W 10th, New York

Haskell, W. H. Mfg. Co., Pawtucket, R. I.

Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburg, Pa. Phila., Pa.

Illinois Bolt, Nut & Forging Co. (Large), 35th & Ashland av, Chicago, Ill.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Kirk-Latty Mfg. Co., Cleveland, O.

Lake Erie Iron Co., Wade bldg, Cleveland, O.

Lamson & Sessions Co., Cleveland, O.

Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.

Lorain Steel Co., Penna. bldg, Phila., Pa.

MCCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. index, end of book)

McCloud, Crane & Minter, Worcester, Mass.

Michigan Bolt & Nut Works, Detroit, Mich.

Milton Mfg. Co., Milton, Pa.

Moran Nut & Bolt Mfg. Co., Florida & Main, St. Louis, Mo.

NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

National Bolt & Nut Co., Pittsburg, Pa.

National Screw & Tack Co., Cleveland, O.

National Supply Co., 7 W Lombard, Baltimore, Md.

Necly Nut & Bolt Co., S 22d & P. & L. R. R., Pittsburg, Pa.

New Castle Forge & Bolt Co., New Castle, Pa.

New England Bolt & Steel Co., 3 Charlton, Everett, Mass.

Noble Electric Steel Co., San Francisco, Cal.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.

Pawtucket Mfg. Co., Pawtucket, R. I.

Penn Iron Co., Lancaster, Pa.

Pittsburg Forge & Iron Co., Pittsburg, Pa.

Pittsburg Mfg. Co., 28th & A. V. R'y, Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.

Reynolds & Co., 321 East, New Haven, Conn.

Rhode Island Tool Co., Providence, R. I.

Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.

Scranton Bolt & Nut Co., Scranton, Pa.

Smith, Thomas & Co., Worcester, Mass.

Union Nut & Bolt Co., 107 Chambers, New York

Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Bolts (Neck)

National Screw & Tack Co. ("O. H. Flt"), Cleveland, O.

STANLEY WORKS (Wrought Steel). New Britain, Conn. (See adv. index & branch offices, end of book)

Bolts (North Patented)

Cleveland Bolt & Mfg. Co., Cleveland, O.

Bolts (Planer Head)

Anthony Screw Co., Worcester, Mass.

Chicago Screw Co., 2 N Canal, Chicago, Ill.

Cincinnati Screw & Tap Co., Twilight, O.

Corbin Screw Corporation, New Britain, Conn.

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)

NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

Niagara Screw Co., Buffalo, N. Y.

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.

Smith, Thos. & Co., Worcester, Mass.

Western Automatic Machine Screw Co., Elyria, Ohio

Bolts (Plow)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.

Anchor Bolt & Nut Co., Poughkeepsie, N. Y.

Clark Bros. Bolt Co., Milldale, Conn.

Columbus Bolt Works, Columbus, O.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood,
 Philadelphia, Pa.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lake Erie Iron Co., Wade bldg., Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W,
 Cleveland, O.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., Florida, c Main,
 St. Louis, Mo.
 National Supply Co., 7 W Lombard, Baltimore,
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.
 Russell, Burdsall & Ward Bolt & Nut Co., Port
 Chester, N. Y.
 Smith, Thos. & Co., Worcester, Mass.
 Upson Nut Co., Unionville, Conn., & Cleveland,
 Ohio

Bolts (Roof)

(See Bolts, Bridge & Structural)

Bolts (Screen)

American Iron & Steel Mfg. Co., Lebanon &
 Reading, Pa.

Bolts (Screw & Nut Eye)

Wilcox, Crittenden & Co., Middletown, Conn.

Bolts (Shackle)

Blakeslee Forging Co. (Milled), Plantsville,
 Conn.
 Clark Bros. Bolt Co., Milldale, Conn.
 Columbus Bolt Works, Columbus, O.
 Garland Nut & Rivet Co., Pittsburg, Pa.
 Lamson & Sessions Co., 2188 Scranton rd, S W,
 Cleveland, O.
 Moore, Franklin Co., Winsted, Conn.
 Russell, Burdsall & Ward Bolt & Nut Co.,
 Port Chester, N. Y.

Bolts (Shaft)

Columbus Bolt Works (T Head Shaft), Colum-
 bus, O.
 Corbin Screw Corporation (Reverse Helicoid),
 New Britain, Conn.

Bolts (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.,
 & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Centre,
 New York
STANLEY WORKS (Wrought Steel),
 New Britain, Conn. (See adv. index &
 branch offices, end of book)
 Wrightsville Hardware Co., Wrightsville, Pa.

Bolts (Sink)

American Screw Co., Providence, R. I., & 19
 Lake, Chicago, Ill.
ATLAS BOLT & SCREW CO., THE
 (Iron & Brass), Marquette, opp Hamilton
 av, N E, Cleveland, O.
 Berry Bros., E 1st av & R. R., Columbus, O.
 Boston Bolt Co., 40 Farnsworth, Boston, Mass.
 Central Foundry Co., 37 Wall, New York
 Columbia Screw Co., Pullman, Chicago, Ill.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation, New Britain, Conn.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Kirk-Latty Mfg. Co., Madison av, nr W 85th,
 N W, Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W,
 Cleveland, O.
 Mount Carmel Bolt Co. (Also Brass), Mount
 Carmel, Conn.
 National Screw & Tack Co., Cleveland, O.
 National Supply Co., 7 W Lombard, Baltimore,
 Md.
 New England Bolt & Steel Co., 3 Charlton,
 Everett, Mass.
 Reed & Prince Mfg. Co., Worcester, Mass.
 Reynolds & Co., 321 East, New Haven, Conn.
 Russell, Burdsall & Ward Bolt & Nut Co.,
 Port Chester, N. Y.
 Shelton Co. (Iron & Brass), Shelton, Conn.
 Upson Nut Co., Unionville, Conn., & Cleveland,
 Ohio

Bolts (Sleigh Shoe)

ATLAS BOLT & SCREW CO., THE,
 Marquette, opp Hamilton av, N E, Cleve-
 land, O.
 Berry Bros., E 1st av & R. R., Columbus, O.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation (Plain & Reverse
 Helicoid), New Britain, Conn.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.,
 & 208 Fulton, New York
 Lake Erie Iron Co., Wade bldg., Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W,
 Cleveland, O.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moore, Franklin Co., Winsted, Conn.
 Mount Carmel Bolt Co., Mount Carmel, Conn.
 Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.
 Russell, Burdsall & Ward Bolt & Nut Co.,
 Port Chester, N. Y.
 Russell & Erwin Mfg. Co. (Helicoid), New Brit-
 ain, Conn., & 96 Lafayette, New York

Bolts (Socket)

American Iron & Steel Mfg. Co., Lebanon &
 Reading, Pa.

*Bolts (Split, with Wedge)

PITTSBURGH RIVET CO., 38th &
 Junction R. R., Pittsburgh, Pa. (See adv.
 index, end of book)

Bolts (Stove)

American Screw Co., Providence, R. I., & 19
 Lake, Chicago, Ill.
ATLAS BOLT & SCREW CO., THE,
 Marquette, opp Hamilton av, N E, Cleve-
 land, O.
 Berry Bros., Columbus, O.
 Boston Bolt Co., 40 Farnsworth, Boston, Mass.
 Central City Bolt Co., Syracuse, N. Y.
 Clark Bros. Bolt Co., Milldale, Conn.
 Clark Bros. & Co., Milldale, Conn.
 Cobb & Drew, Plymouth, Mass., & Rock
 Falls, Ill.
 Columbia Screw Co., 106th & Cottage Grove
 av, Chicago, Ill.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation, New Britain, Conn.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Fanner Mfg. Co., Cleveland, O.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Kirk-Latty Mfg. Co., Cleveland, O.
 Lake Erie Iron Co., Wade bldg., Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W,
 Cleveland, O.
MERCHANT & EVANS CO. (Inc.), 517
 Arch, Phila., Pa. (See adv. index & branch
 offices, end of book)
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., Florida, c Main
 St. Louis, Mo.
 Mount Carmel Bolt Co. (Also Brass), Mount
 Carmel, Conn.
 National Screw & Tack Co., Cleveland, O.
 National Supply Co., 7 W Lombard, Baltimore,
 Md.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Ohio Nut & Bolt Co., Berea, O.
 Reading Screw Co. (Also Nickel Plated), Nor-
 rirstown, Pa.
 Reed & Prince Mfg. Co., Worcester, Mass.
 Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.
 Reynolds & Co., 321 East, New Haven, Conn.
 Rockford Bolt Co., Rockford, Ill.
 Russell, Burdsall & Ward Bolt & Nut Co.,
 Port Chester, N. Y.
 St. Louis Screw Co., St. Louis, Mo.
 Shelton Co. (Iron & Brass), Shelton, Conn.
 Southington Cutlery Co., Southington, Conn.
 Troy Nickel Works (Jno. E. Gaitley, Prop.)
 Albany, N. Y.
 Upson Nut Co., Unionville, Conn., & Cleveland,
 Ohio

Bolts (Strap)

American Iron & Steel Mfg. Co., Lebanon &
 Reading, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Simmons & Sons, Spokane, Wash.

Bolts (Stud)

Aetna Nut Co., Southington, Conn.
 American Iron & Steel Mfg. Co., Lebanon &
 Reading, Pa.
 Chicago Screw Co., 2 N Canal, Chicago, Ill.

Cincinnati Screw & Tap Co., Twilight, O.
 Clark Bros. Bolt Co., Milldale, Conn.
 Columbus Bolt Works, Columbus, O.

DETROIT SCREW WORKS, 348
 Franklin, Detroit, Mich. (See adv. index,
 end of book)

Eastern Bolt & Nut Co., Providence, R. I.
 Electric Welding Products Co., Cleveland, O.
 Garland Nut & Rivet Co., Pittsburg, Pa.
 Greenlie, Wyatt & Co., 499 Water, New York
 Hall's, Samuel Sons, 229 W 10th, New York
 Hartford Machine Screw Co., Hartford, Conn.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood,
 Philadelphia, Pa.

Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lake Erie Iron Co., Wade bldg, Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W,
 Cleveland, O.

Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., Florida, c Main,
 St. Louis, Mo.

NATIONAL - ACME MFG. CO., 7500
 Stanton av, S E, Cleveland, O. (See adv.
 index & branch offices, end of book)

National Bolt & Nut Co., Pittsburg, Pa.
 National Supply Co., 7 W Lombard, Baltimore,
 Md.

New England Bolt & Steel Co., 3 Charlton,
 Everett, Mass.

Oliver Iron & Steel Co., Pittsburg, Pa.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Phila. Machine Screw Works, Phila., Pa.
 Pittsburg Screw & Bolt Co., Pittsburg, Pa.
 Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.

Reynolds & Co., 321 East, New Haven, Conn.
 Rhode Island Tool Co., Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co., Port
 Chester, N. Y.

Scranton Bolt & Nut Co., Scranton, Pa.
 Smith, Thos. & Co., Worcester, Mass.
 St. Louis Screw Co., St. Louis, Mo.
 Upson Nut Co., Unionville, Conn., & Cleveland,
 Ohio

Western Automatic Mach. Screw Co., Elyria, O.

Bolts (Tap)

American Iron & Steel Mfg. Co., Lebanon &
 Reading, Pa.

Central City Bolt Co., Syracuse, N. Y.
 Clark Bros. Bolt Co. (& Set-Screws), Milldale,
 Conn.

DETROIT SCREW WORKS, 348
 Franklin, Detroit, Mich. (See adv. index,
 end of book)

Garland Nut & Rivet Co., Pittsburg, Pa.
 Greenlie, Wyatt & Co., 499 Water, New York
 Hall's, Samuel Sons, 229 W 10th, New York
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood,
 Philadelphia, Pa.

Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lake Erie Iron Co., Wade bldg, Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton rd, S W,
 Cleveland, O.

Michigan Bolt & Nut Works, Detroit, Mich.
 National Supply Co., 7 W Lombard, Baltimore,
 Md.

New England Bolt & Steel Co., Everett, Mass.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pawtucket Mfg. Co., Pawtucket, R. I.

Pittsburg Screw & Bolt Co., Pittsburg, Pa.
 Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.

Reynolds & Co., 321 East, New Haven, Conn.
 Rhode Island Tool Co., Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co., Port
 Chester, N. Y.

St. Louis Screw Co., St. Louis, Mo.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Smith, Thos. & Co., Worcester, Mass.

Bolts (Tee Head)

National Bolt & Nut Co., Pittsburg, Pa.
PITTSBURGH RIVET CO., 38th &
 Junction R. R., Pittsburgh, Pa. (See adv.
 index, end of book)

Bolts (Thumb)

DETROIT SCREW WORKS, 348
 Franklin, Detroit, Mich. (See adv. index,
 end of book)

Eberhard Mfg. Co., Tennyson & C. & P. R. R.,
 Cleveland, O.

Hall's, Samuel Sons (Wing or Thumb) Nut
 Bolts, 229 W 10th, New York

National Supply Co., 7 W Lombard, Baltimore,
 St. Louis Screw Co., St. Louis, Mo. Md.

Bolts (Tire)

American Screw Co. (Fluted), Providence, R. I., & 19 Lake, Chicago, Ill.
ATLAS BOLT & SCREW CO., THE, Marquette, opp Hamilton av, N E. Cleveland, O.
 Berry Bros., Columbus, O.
BETTCHEER MFG. CO., Clark av, at C. C. C. & St. Louis ry, S W, Cleveland, O. (See adv index, end of book)
 Central City Bolt Co., Syracuse, N. Y.
 Clark Bros. Bolt Co., Milldale, Conn.
 Cobb & Drew, Plymouth, Mass., & Rock Falls, Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation, New Britain, Conn.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Frost, L. D., Marlon, Conn.
 Haydon, A. & M., 304 N 22d, Phila., Pa.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
 Kirk-Latty Mfg. Co., Cleveland, O.
 Lake Erie Iron Co., Wade bldg, Cleveland, O.
 Lamson & Sessions So., 2188 Scranton rd, S W, Cleveland, O.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Mount Carmel Bolt Co., Mount Carmel, Conn.
 National Screw & Tack Co., Cleveland, O.
 National Supply Co., 7 W Lombard, Baltimore, Md.
 New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
 Ohio Nut & Bolt Co., Berea, O.
 Reading Screw Co., Norristown, Pa.
 Reed & Prince Mfg. Co., Worcester, Mass.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Richards, T. C. Hardware Co., Winsted, Conn.
 Rockford Bolt Co., Rockford, Ill.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Shelton Co., Shelton, Conn.
 Skelly, Thos. P. & Co., 24th nr Callowhill, Philadelphia, Pa.
 Southington Cutlery Co., Southington, Conn.
 Upson Nut Co. (Common & "Philadelphia"), Unionville, Conn., & Cleveland, O.

Bolts (Toggle)

Ajax Line Material Co. ("Ajax"), 12 S Jefferson, Chicago, Ill.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Church, Isaac, S Norwalk, Conn.
 Crescent Co. ("Crescent"), Valparaiso, Ind.
 Cutter, Geo. Co. ("Lever"), South Bend, Ind.
DIAMOND EXPANSION BOLT CO., 90 West, New York. (See adv. index & branch offices, end of book)
 Ellis Mfg Co. ("Omega"), 269 Dearborn, Chicago, Ill.
G. & W. MFG. CO. ("Delta"), 26 Cortlandt, New York. (See adv. index, end of book)
 Grabber Mfg. Co., Cleveland, O. (See adv. index & branch offices, end of book)
STAR EXPANSION BOLT CO. ("Star") All Kluds), 147 Cedar, New York. (See adv. index & branch offices, end of book)
STEWART & ROMAINE MFG. CO., 124 N 6th, Phila., Pa. (See adv. index, end of book)
 Wilcox Mfg. Co., Aurora, Ill. (See adv. index, end of book)
 Wrigley, Thos. Co. ("Wrigley," Patented Steel), 302 Dearborn, Chicago, Ill.

***Bolts (Toggle, Boiler Patch)**

STEWART & ROMAINE MFG. CO. (For Range Bolters), 124 N 6th, Phila., Pa. (See adv. index, end of book)

Bolts (Track)

American Equipment Co., Norristown, Pa.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Ames, W. & Co., Jersey City, N. J.
 Border Bolt & Nut-Lock Co. ("Border"), Richmond, Ind.
 Boston Bolt Co., 284 Franklin, Boston, Mass.
 Boston Bolt Co., 40 Farnsworth, Boston, Mass.
 Cambria Steel Co., Arcade bldg, Phila., Pa.
CAREY, GEO. H. (Jobber), 1 B'way, New York. (See adv. index, end of book)
 Colorado Fuel & Iron Co., Denver, Colo.
 Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Elastic Nut & Bolt Co., Russell av & Superior, Milwaukee, Wis.
 Hirsch Rolling Mill Co., St. Louis, Mo.
 Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.
 Hubbard & Co., Pittsburg, Pa.
 Illinois Steel Co., Com. Nat'l Bank bldg, Chicago, Ill.

Judson Mfg. Co., San Francisco, Cal.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Lake Erie Iron Co., Wade bldg, Cleveland, O.
 Lamson & Sessions So., 2188 Scranton rd, S W, Cleveland, O.
 Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.
 Lorain Steel Co. (With Button Heads & Oval Necks), Penna. bldg, Phila., Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., Florida e Main, St. Louis, Mo.
 National Bolt & Nut Co., Pittsburg, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
 New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
 Oliver Iron & Steel Co. (Threads Rolled or Cut in Oil), Pittsburg, Pa.
 Penn Iron Co., Lancaster, Pa.
 Penna. Steel Co. ("Never-Turn"), Girard bldg, Phila., Pa.
 Pittsburg Forge & Iron Co., 1003 Penna av, Pittsburg, Pa.
 Pottsville Bolt Co., Pottsville, Pa.
 Railway Specialty & Supply Co. (For Electric Railways), 77 Jackson boul., Chicago, Ill.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Smith Improved Lock Nut Co., Rockford, Ill.
 Tredegar Co., Richmond, Va.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Bolts (Trolley Span, Wire Work)

American Iron & Steel Mfg. Co., Lebanon, Pa.

Bolts ("U")

National Bolt & Nut Co., Pittsburg, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Bolts (Water Closet Indicator)

Russell & Irwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Bolts (Whiffletree)

Atwater Mfg. Co., Plantsville, Conn.
 Columbus Bolt Works, Columbus, O.
 Lamson & Sessions Co., Cleveland, O.
 Moore, Franklin Co., Winsted, Conn.
 National Supply Co., 7 W Lombard, Baltimore, Md.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Scranton Bolt & Nut Co., Scranton, Pa., & 25 Broad, New York
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Bolts (Window)

(See Bolts, Door & Window)

Bonds (Rail)

(See Rail Bonds)

Bone-Ash

Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Warda, Jno. C. & Co., Brooklyn, N. Y.

Bone Black

(See also Rawbone, Granulated)

American Agricultural Chemical Co., 2 Rector, New York
 Baugh & Sons Co., 25 S Calvert, Baltimore, Md.
 Binney & Smith Co. (& Blacks of Every Description), 81 Fulton, New York
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Elster Agricultural Chemical Works, 26 B'way, New York
 Michigan Carbon Works, Baldwin & Gregory, Detroit, Mich.
 Pettit Chemical Co., 241 Front, New York
 Seaver & Co., 120 Milk, Boston, Mass.
 Standard Guano & Chemical Mfg. Co., 714 Union, New Orleans, La.

Bone Dealers

Brand, Herman, 404 E 48th, New York
 Koch, Frank, 52 Belvidere av, Jersey City, N. J.
 Levy, J. & J., 247 E 50th, New York
 Liebenau, Albert, 3402 Park av, New York

Bone-Meal

Akron Fertilizer Co., Akron, O.
 Binney & Smith Co. (For Case Hardening), S Fulton, New York
 Hawaii Fertilizer Co., Honolulu, H. T.
 York Chemical Works, York, Pa.

Book Case Fronts (Flexible)

Flexifold Door & Shutter Co. ("Flexifold"), 10 E Worcester, Worcester, Mass.

Book Cases

Almone Mfg. Co. (Combination), 430 E 23d, New York
 Andrews, A. H. Co. (Combination, Revolving & Sectional), 174 Wabash av, Chicago, Ill.
 Automatic File & Index Co. (Sectional), Green Bay, Wis.
 Buchanan Cabinet Co. (Revolving), Buchanan, Mich.
 Cabinet Makers Co. (Combination), 329 Kent, Grand Rapids, Mich.
 Casler, P. W. Mfg. Co. (Sectional), Little Falls, N. Y.
 Conrey, D. L. Furniture Co. (Combination), Shelbyville, Ind.
 Co-Operative Furniture Co. (Combination), Rockford, Ill.
 Danner, John Mfg. Co. (Revolving), Canton, O.
 Evansville Bookcase & Table Co. (Combination), Evansville, Ind.
 Globe-Wernicke Co. (Sectional), 1224 8th, Cincinnati, O.
 Gunn Furniture Co. (Sectional), Grand Rapids, Mich.
 Humphrey Book Case Co. (Sectional), W, Detroit, Mich.
 Ideal Desk Extension Co. (Sectional Folding), Auburn, Me.
 Library Bureau (Sectional), 530 Atlantic av, Boston, Mass.
 McNowen Mfg. Co. (Revolving), Columbia City, Ind.
 Macey Co. (Sectional), Grand Rapids, Mich.
 Ideal Desk Extension Co. (Sectional Folding), Auburn, Me.
 Library Bureau (Sectional), 530 Atlantic av, Boston, Mass.
 McNowen Mfg. Co. (Revolving), Columbia City, Ind.
 Macey Co. (Sectional), Grand Rapids, Mich.
 Peck & Hills Furniture Co. (Revolving & Sectional), 1319 Michigan av, Chicago, Ill.
 Peninsular Mfg. Co. (Sectional), Ann Arbor, Mich.
 Rockford Standard Furniture Co. (Combination), Rockford, Ill.
 Sargeant Mfg. Co. (Revolving), Muskegon, Mich.
 Shaw-Walker Co. (Sectional), Muskegon, Mich.
 Skandla Furniture Co. ("Viking"), Rockford, Mich.
 Weis Mfg. Co. ("Wels" Sectional), Monroe, Mich.

***Book Lifts (Electric)**

OTIS ELEVATOR CO., 17 Battery pl. (See adv. index & branch offices, end of book)

Book Stacks (Fire-Proof)

(See Library Shelving & Fittings, Metallic)

Boots (Elevator)

American Machinery & Construction Co., Milwaukee, Wis.
 Barnard & Leas Mfg. Co. ("Perfection," etc., Iron or Wood), Moline, Ill.
BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)
 Buhl Malleable Co., Detroit, Mich.
 Caldwell, H. W. & Son Co. ("Caldwell" Self-Oiling, etc.), 17th & Western av, Chicago, Ill.
 Chain Belt Co., 766 Park, Milwaukee, Wis.
 Dodge Mfg. Co., Mishawaka, Ind.

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York

Marseilles Mfg. Co., Marseilles, Ill.
MINNEAPOLIS STEEL & MACHINERY CO. (Wood, Steel & Cast Iron), Minneapolis, Minn. (See adv. index & branch offices, end of book)

Moore & Lorenz Co., 816 Fulton, Chicago, Ill.
Nurdyke & Marmon Co., Indianapolis, Ind.

Power & Mining Machinery Co., Cudahy, Wis.
Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.

Specialty Engineering Co., 1908 Westmoreland, Phila., Pa.

Standard Sand & Machine Co., 5157 St. Clair, Cleveland, O.

WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

WELLER MFG. CO., 124 E. North av, Chicago, Ill. (See adv. index, end of book)

Boots (Lawn)

Gregg Mfg. Co. ("Phillips" for Horses), 1318 W 4th, Cleveland, O.

*Boots (Sewer Connection)

BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

CANTON MFG. CO., Canton, O. (See adv. index, end of book)

Borax

Croton Chemical Co. (Refined), 20 Cedar, New York

Denver Fire Clay Co. (Glass), Denver, Colo.

Griswold, E. & Co., San Francisco, Cal.

Harshaw, Fuller & Goodwin Co., Cleveland, O.

Mallinckrodt Chemical Works, St. Louis, Mo.

Pacific Coast Borax Co. (Refined), Oakland, Cal.

Pfizer, Chas. & Co. (Crystals, Powdered & Granular), 81 Maiden la, New York

Preservalline Mfg. Co., 41 Warren, New York

Rhodes Salt & Borax Co., San Francisco, Cal.

Sterling Borax Co. (Refined), San Francisco, Cal.

Wiarda, Jno. E. & Co., Brooklyn, N. Y.

Borax Powder for Annealing, Etc.

DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)

Mellvaine Bros., 1500 Hamilton, Phila., Pa.

Borers (Bung Hole)

ELMES, CHAS. F. ENGINEERING Works, Fulton & Sangamon, Chicago, Ill.

(See adv. index, end of book)

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

Redlick Mfg. Co., 6 Oak, Chicago, Ill.

Swan, Jas. Co. (Graduated & Ring), Seymour, Conn.

United States Bung Mfg. Co. ("Kirby"), 48 S 2d, Brooklyn, N. Y.

Borers (Ratchet Corner)

Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.

Borers (Tap)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Ives, W. A. Mfg. Co., 299 B'way, New York

Johnson, Wm. (Hedberg Works), Newark, N. J.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Boring Machines

(See Machines, Boring, of Various Kinds)

Boring & Turning Mills

(See Mills, Boring & Turning)

Bortz

Bandler, Bernard & Son (Also Black Diamonds for Diamond Drills & All Mechanical Purposes), 65 Nassau, New York

DESSAU'S, S. SONS (also Black Diamonds for Diamond Drills & All Mechanical Purposes), 180 B'way, New York. (See adv. index, end of book)

Mendes Cutting Factorles (For Diamond Saws), 14 John, New York

MEYERS, WILLARD F., 342 Vernon av, Long Island City, N. Y. (See adv. index, end of book)

Boshes (Mechanical)

Heyl & Patterson, Pittsburg, Pa.

Boshes (Tin House)

Meehan Boiler & Construction Co., Lowellville, O.

Bottle Fillers (Milk, Etc.)

Champion Milk Cooler Co., Cortland, N. Y.

Cornish, Curtis & Green, Fort Atkinson, Wis.

Edson Mfg. Co., Boston, Mass.

Stoddard Mfg. Co., Rutland, Vt.

*Bottle Rack (Hollow Tile)

MAURER, HENRY & SON, 420 E 23d, New York; Penna. bldg, Phila., Pa. Works: Maurer, N. J. (See adv. Inside Front Cover)

Bottle Wrappers (Corrugated)

(See Paper Manufacturers, Corrugated)

Bottles (Glass)

CALIFORNIA.

SAN FRANCISCO—Illinois-Pacific Glass Co.

COLORADO.

DENVER—Western Glass Mfg. Co. (Prescription, Beer, Wine, Soda, Medicine, Preservers' & Packers')

GEORGIA.

TALLAPOOSA—Dixie Glass Co. (Prescription, Beer, Soda, Brandy, Medicine, etc.)

ILLINOIS.

ALTON—Illinois Glass Co. (Prescription, Druggists', Beer, Wine, Soda, Mineral Water, etc.)

BELLEVILLE—American Bottle Co. (See Chicago, Ill.)

CHICAGO—American Bottle Co., 1st Nat'l B'k bldg. Works, Newark, O., & Belleville, Ill.

Illinois Glass Co., 208 Randolph (See Alton, Ill.)

Pitkin & Brooks, State & Lake

Western Bottle Mfg. Co., 210 Randolph

CHICAGO HEIGHTS—Sheldon-Foster Glass Co.

DANVILLE—Headley Glass Works

EAST ST. LOUIS—Oleary-Nester Glass Co.

HILLSBORO—Schram Automatic Sealer Co.

STREATOR—American Bottle Co. (See Chicago, Ill.)

INDIANA.

ANDERSON—Anderson Flint Bottle Co. (Druggists', Perfumers', Beer, etc.)

Pennsylvania Glass Co. (Prescription, Druggists')

CICERO—Indiana Bottle & Glass Co.

DALEVILLE—Daleville Glass Co. (Prescription, Druggists', Preservers', Packers')

DUNKIRK—Maring Hart & Co. (Beer, Soda, Wine, Brandy, Preservers', Packers')

EATON—Western Flint Glass Co.

GAS CITY—Thompson Bottle Co. (Prescription, Beer, Wine, Soda, Brandy, Proprietary Medicine, Packers' & Preservers')

U. S. Glass Co. (See Pittsburg, Pa.)

GREENFIELD—Greenfield Fruit Jar & Bottle Co.

KOKOMO—Jenkins, D. C. Glass Co. (Milk, LAPEL—Lapel Bottle Co. Cherry & Olive)

LOGOOTE—Southern Indiana Glass Works (Packers', Preservers')

MARION—Ball Bros. Glass Mfg. Co. (See Muncie, Ind.)

Marion Flint Glass Co. (Prescription, Wine, Beer, Soda, Packers', Preservers')

Marion Fruit Jar & Bottle Co.

Standard Glass Co.

MUNCIE—Ball Bros. Glass Mfg. Co. Works, Marion, Ind., & Coffeyville, Kansas)

Boldt, Chas. Co.

SHIRLEY—Indiana Bottle Co. (Prescription, Packers', Preservers')

SPENCER—Spencer Co-operative Bottle Co.

SUMMITVILLE—Model Glass Works (Prescription & Druggists')

TERRE HAUTE—Moses-Turner Glass Co. (Whiskey, Prescription, Packers', Preservers')

North Baltimore Bottle Glass Co. (Beer, Soda, Wine, Brandy, etc.)

Root Glass Co. (Beer, Soda, Liquor)

UPLAND—Upland Co-operative Glass Co.

YORKTOWN—Skillin-Goodin Glass Co. (Catsup, Condiment, Prescription, Extract, Pickle)

KANSAS.

ALTOONA—Altoona Co-operative Glass Co.

COFFEYVILLE—Ball Bros. Glass Mfg. Co.

Mason-Fruit Jar Co.

Premium Glass Co.

Western Bottle Glass Co. (Prescription, Packers' & Preservers')

NEODOSHA—Neodosha Bottle & Glass Co. (Prescription, Beer, Soda, Wine & Brandy)

MARYLAND.

BALTIMORE—Carr-Lowery Glass Co. (Prescription, Beer, Wine, Soda, Packers', Brandy & Preservers')

Nivison Glass Co. (Beer, Soda, Wine, Brandy, Packers', Preservers')

Swindell Bros. (Druggists', Chemists', Perfumery Green Amber)

MOUNT WINANO—Maryland Glass Corporation

MISSOURI.

ST. LOUIS—Busch, Adolphus Glass Mfg. Co. (Beer)

NEW JERSEY.

BRIDGETON—Bridgeton Glass Co. (Owned by Cumberland Glass Co.)

Cumberland Glass Mfg. Co. (Prescription, Beer, Wine, Brandy, Soda, Packers')

Moore-Jonas Glass Co. (Prescription, Packers', Preservers')

Parker Bros. Glass Mfg. Co. (Prescription, Beer, Soda, Wine, Brandy, Packers', Preservers')

CAPE MAY COURT HOUSE—Hereford Glass Co.

CLAYTON—Pierce, F. M. & Co. (Prescription, Proprietary Medicine)

GLASSBORO—Whitney Glass Co. (Green, Flint, Prescription, Packers', Preservers')

MEDFORD—Star Glass Co. (Prescription, Beer, Wine, Soda, Brandy)

MILLVILLE—Millville Bottle Co. (Prescription, Proprietary Medicine)

Whitall Tatum Co. (Druggists')

MINOTOLA—Jonas, Geo. Glass Mfg. Co. (Beer, Soda, Packers', Preservers', Brandy & Wine)

OLD BRIDGE—Brookfield Glass Co. (See New York City)

SALEM—Gayner Glass Works (Green)

Salem Glass Works (All Kinds)

VINELAND—Vineland Flint Glass Mfg. Co.

WOODBURY—Woodbury Bottle Works (Prescription, Beer, Soda, Wine, Brandy & Packers')

NEW YORK.

ALDEN—N. Y. Glass Works (Prescription, Beer, Wine, Brandy & Soda)

BINGHAMTON—Binghamton Glass Co. (Prescription, Beer, Soda, Wine, Brandy, Packers', Preservers')

BROOKLYN—Brookfield Glass Works (Beer, Wine, Soda, Brandy, Packers', Preservers')

Demuth Bros. Glass Co.

Gleason-Tiebout Glass Co.

Williamsburg Flint Glass Co.

CLYDE—Clyde Glass Works

CORNING—Corning Glass Works

ELMIRA—Thatcher Mfg. Co. (Milk, Flint, Glass)

LANCASTER—Industrial Glass Co.

LOCKPORT—Lockport Glass Co.

NEW YORK CITY—Boley Mfg. Co. (Works, Olean, N. Y.)

Brookfield Glass Co., 2 Rector, Works, Brooklyn, N. Y., & Old Bridge, N. J.

U. S. Glass Co., 29 Murray (Branch, Pitts-

OLEAN—Boley Mfg. Co. (Prescription, Beer, Wine, Soda, Packers', Brandy & Preservers')
PORT JERVIS—Brox & Ryall (Soda, Syrup, Caster)
POUGHKEEPSIE—Poughkeepsie Glass Works (Prescription, Beer, Soda, Mineral Water, Wine, Brandy)
RAVENSWOOD, L. I.—Bottlers & Mfg. Supply
ROCHESTER—Reed, F. E. & Co. Co.

OHIO.

BELLAIRE—Bellaire Bottle Co. (Flint, Prescription & Druggists')
BRIDGEPORT—Crystal Glass Co. (Green)
BUTLER—Butler Bottle Co.
CAMBRIDGE—Cambridge Glass Co. (Balsam)
CINCINNATI—Boldt, Chas. Co.
COLUMBUS—Federal Glass Co.
Winslow Glass Co. (Prescription, Beer, Wine, Soda, Brandy, Packers' & Preservers')
COSHOCOTON—Coshocoton Glass Co. (Beer, Wine, Soda, Brandy)
JACKSON—Diamond Flint Glass Co. (Prescription, Beer, Wine, Soda, Brandy)
MASSILLON—Franklin Industrial Co. (Beer, Rhodes Glass & Bottle Co. Soc.)
MOUNT VERNON—Essex Glass Co.
Hartford City Flint Glass Co. (Prescription, Beer, Wine, Soda, Brandy)
NEWARK—American Bottle Co. (See Chicago, Ill.)
Heisey, A. H. & Co. (Prescription, Druggists')
TOLEDO—Owens Bottle Machine Co.
ZANESVILLE—Kearns-Gorsuch Bottle Co. (Mineral Water, Extract, Flint, Liquor, Prescription, Green, Beer, Pickle, etc.)

PENNSYLVANIA.

ALLENTOWN—Allentown Flint Co. (Prescription, Wine, Beer, Soda, Brandy, Packers' Preservers')
BEAVER FALLS—Co-Operative Flint Glass Co. (Ltd.)
Imperial Glass Co.
BROCKWAYVILLE—Brockway Machine Bottle Co. (Machine Made Ink, Mueilage, Vaseline, etc.)
CHARLEROI—Hamilton, W. H. Co.
CLARION—Pearl Glass Co. (Prescription, Proprietary Medicine, Packers', Preservers')
CLARKSBURG—Hazel-Atlas Glass Co. (See Wheeling, W. Va.)
EAST DOWNTON—Cohansey Glass Co. (Beer, Soda, Wine, Brandy, Packers', Preservers')
EAST STROUDSBURG—East Stroudsburg Glass Co. (Beer Soda, Wine, Brandy)
GLASSPORT—U. S. Glass Co. (See Pittsburgh, Pa.)
GLENSHAW—Glenshaw Glass Co. (Inc.)
GREENSBURG—Stahl Glass Co.
HARRISBURG—Bochelli Non-Refillable Bottle Co.
HAWLEY—Hawley Glass Co. (Beer, Soda, Wine, Packers', Preservers')
JEANETTE—Fort Pitt Bottle & Glass Co. (Beer, Soda, Wine, Packers', etc.)
Jeanette Glass Co. (Prescription, Beer, Soda, Wine, Packers')
McKee-Jeanette Glass Co. (Prescription, Druggists')
KANE—Kane Flint Bottle Co. (Prescription, Beer, Soda, Wine, etc.)
Thatcher Mfg. Co. (See Elmira, N. Y.)
McDONALD—Warner Glass Co. (Citrate Magnesia, Panel, Prescription, Perfumery, Vaseline)
MOUNT PLEASANT—Anchor Glass Co.
PHILADELPHIA—Hero Fruit Jar Co., Gaul & Adams
Star Glass Co., 226 N 4th. (See Medford, N. J.)
Whitall-Tatum Co. Works, Millville, N. J.
Whitney Glass Co., 227 S Front. (See Glassboro, N. J.)
PITTSBURG—Cunningham, D. O. Glass Co. (Beer, Soda Water), Jane & 22d
Flaccus, C. L. Glass Co., Empire bldg
Hamilton, J. T. & A.
National Glass Co.
U. S. Glass Co. (Prescription, Druggists')
Works, Pittsburgh & Glassboro, Pa., & Wightman Glass Co. Gas City, Ind.
Wormser Glass Co. (Prescription & Druggist)
PORT ALLEGHANY—Olean Glass Co.
ROCHESTER—Rochester Tumbler Works (Water, Bitter, Beer)

ROYERSFORD—Diamond Glass Co. (Soda, Wine, Bitters, Druggists', Beer)
Newborn, W. H. & Co. (Prescription, Beer, Soda, Wine, Packers')
ST. MARYS—Pierce Glass Co. (Prescription, Beer, Soda, Wine, Brandy, etc.)
SALTSBURG—Flint Bottle Co. (Prescription, Medicine)
SHARPSBURG—Helmz, H. J. Co.
Tibby Bros. Glass Co. (Prescription, Beer, Soda, Wine, Packers')
SHEFFIELD—Sheffield Glass Bottle Co. (Prescription, Wine, Beer, Soda, Brandy, Packers' & Preservers')
SHINGLEHOUSE—Elk Flint Bottle Co. (Beer, Soda, Wine, Brandy, Preservers')
TARENTUM—Fidelity Glass Co. (Prescription, Druggists', Preservers')
Flaccus, C. L. Glass Co. (Flint, Prescription & Druggists')
WASHINGTON—Hazel-Atlas Glass Co. (See Wheeling, W. Va.)

SOUTH CAROLINA.

COLUMBIA—Carolina Glass Co. (Prescription, Beer, Soda, Wine, Brandy)

TENNESSEE.

CHATTANOOGA—Chattanooga Bottle & Glass Mfg. Co.

VIRGINIA.

ALEXANDRIA—Alexandria Glass Works (Beer, Soda, Wine, Brandy, Packers', Preservers')
Belle Pre Bottle Co.
Old Dominion Glass Co. (Prescription, Beer, Proprietary Medicine, Wine, Soda, Brandy, Packers')
Virginia Glass Co. (Beer, Wine, Soda, Brandy, Preservers', Proprietary Medicine, Packers')
MANCHESTER—Blair Glass Co. (Druggists' Chemists')

WASHINGTON.

BELLINGHAM—Bellingham Glass Co. (Prescription, Beer, Soda, Wine, Brandy, Proprietary Medicine)
SEATTLE—Seattle Glass Co.

WEST VIRGINIA.

CLARKSBURG—Hazel-Atlas Glass Co. (See Wheeling, W. Va.)
FAIRMONT—Fairmont Bottle Co. (Beer, Wine, Soda, Brandy, Packers' & Preservers')
MANNINGTON—Mannington Glass Works Co. (Wide Mouth Machine Made Bottles)
MORGANTOWN—Wightman, S. R. Glass Co.
PADEN CITY—Duquesne Glass Co. (Beer, Soda, Wine, Brandy)
WELLSBURG—Wellsburg Glass & Mfg. Co. (Milk, Packers', Catsup)
Wellsburg Glass Co. (Packers', Preservers')
WHEELING—Central Glass Works (Prescription, Druggists')
Hazel-Atlas Glass Co. (Snuff, Catsup, Ink, Oil, Olive & Vaseline.) Works, Washington, Pa., & Clarksburg, W. Va.

WISCONSIN.

MILWAUKEE—Franzen, Wm. & Son (Inc.)

Bottles (Gutta Percha)

Bishop Gutta Percha Co., 422 E 25th, New York

Bottles (Paper)

American Paper Bottle Co., 221 N 23d, Phila., Pa.

Bottles (Rubber)

Rubber Products Co. (Water), Barberton, O.

Bottles (Steel)

Avery Stamping Co. (5-8 inch to 1 inch Thick), Cleveland, O.

Bottles (Vacuum)

American Electrical Novelty & Mfg. Co., 308 Hudson, New York
American Thermos Bottle Co., 31 Washington, Brooklyn, N. Y.
Caloris Mfg. Co., 2110 Allegheny av, Phila., Pa.
H. & C. Bottle Mfg. Co., 652 B'way, New York
Icy Hot Bottle Co., Cincinnati, O.

Bower Barffed Work

CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
Chicago Hardware Co., North Chicago, Ill.
Heela Iron Works, 118 N 11th, Brooklyn, N. Y.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
WINSLOW BROS. COMPANY, Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

Bowling Alley Builders

American Box Ball Co., 162S Van Buren, Indianapolis, Ind.
Brunswick-Balke-Collendar Co., 130 E 6th, Cincinnati, O., & 229 4th av, New York
Crawford, McGregor & Canby Co., Dayton, O.
Dillingham, Wm. G., 42 South, New York
Ehler, H. E., 277 Washington, B'klyn, N. Y.
Harrison, A. H. & Son, Seattle, Wash.
Matthews-Fahl Mfg. Co. ("Boy-Less"), 217 N 2d, St. Louis, Mo.
Narragansett Machine Co., Providence, R. I.
Stevens, B. A. Co. (Sectional), Toledo, O.
Zelliff, J. E., Kearny, N. J.

Bowling Alley Supplies

McMillan's, W. H. Sons, 153 South, New York

***Bowls (Ladle)**

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

***Bowls (Cream Separator)**

KEIM, JNO. R. MILLS (Inc.), Buffalo, N. Y. (See adv. index, end of book)

Box Anchor & Timber Caps

(See also Hangers, Joist)

CHAMPION IRON CO, Kenton, O. (See adv. index, end of book)

Goetz Box Anchor Co., New Albany, Ind.
RIESECK, P. (Wrought Iron), Allegheny, Pa. (See adv. index, end of book)
Van Dorn Iron Works Co., Cleveland, O.

Box Board Mfrs.

American Straw Board Co., Old Colony bldg. Chicago, Ill.
Beloit Box Board Co., Beloit, Wis.
HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Mac-Sim-Bar Paper Co., Otsego, Mich.
Madison Board & Paper Mfg. Co., Madison, Ind.
Naubuc Paper Co., Glastonbury, Conn.
New Haven Pulp & Board Co., New Haven, Conn.
Ramage, Jas. Paper Co., Monroe Bridge, Mass.
Tonawanda Board & Paper Co., Tonawanda, N.Y.
United Box Board & Paper Co., 111 B'way, New York
Unicas Paper Co., Norwich, Conn.
Western Straw Board Co., St. Marys, O.

Box Machinery

(See Machinery, Box Makers')

Box Nailing Machines

(See Machines, Box Nailing)

Box Scrapers

(See Scrapers, Box & Plumbers')

Box Shooks

(See Shooks, Box)

Box Stands (Annealing)

Leetonia Boiler Co., Leetonia, O.

Box Straps

ACME STEEL GOODS CO. ("Acme"), Embossed, Flat, Barbed & Twisted Wire), 2834-2840 Archer av, Chicago, Ill.; 147 Lafayette, New York, & Empire bldg, Atlanta, Ga. (See adv. index, end of book)



Cary's Universal Box Strap

THE STRAP WITH THE "NAME"
THE KIND IT PAYS TO HANDLE

OUR STRAPPING HAS ACQUIRED AN ENVIABLE FAME,
AND WE ARE PREPARED TO UPHOLD ITS NAME.

A Continuous Metal Strap with a series of Raised Bosses along the edges to strengthen it and to protect Nail Heads.

On every reel we put our Patent Metal Reel Frame as illustrated.

Put up in coils 300 feet in length and packed in cases containing 20 reels each.

Made in four widths— $\frac{1}{2}$, $\frac{3}{8}$, $\frac{3}{4}$ and ONE INCH. Patented in all countries.

CARY MANUFACTURING COMPANY

19 and 21 ROOSEVELT ST., NEW YORK

American Box Strap Co. (Duplex), 501 W B'way, New York

AMERICAN STEEL & WIRE CO.
(Steel), Commercial National Bank bldg., Chicago, Ill. (See index & branch offices, end of book)

Buffalo Specialty Co. ("Neverbreak," Box Binding), Buffalo, N. Y.

CARY MFG. CO. ("Cary's" Universal
& Wire Box Strapping Box Corner Fasteners & Clutch Nails), 19 Roosevelt, New York. (See adv. index, end of book)

Crescent Metal Strap Co., 390 Canal, New York

De Haven Mfg. Co. ("Trojan" Steel & Iron), 153 Furman, Brooklyn, N. Y.

Independent Steel & Wire Co., Pittsburg, Pa.

Robertson, W. F. Steel & Iron Co. ("Economy," "Sampson"), Cincinnati, O.

Twisted Wire Box Strap Co. (Twisted Wire), 451 Greenwich, New York

Boxes (Bosh)

(See Plates, Bosh)

*Boxes (Burglar Alarm)

BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)

Boxes (Cash)

Merriam Mfg. Co., Durham, Conn.
Miller Lock Co. (With Keyed Locks & Keyless Locks), 4523 Tacony, Phila., Pa.

Boxes (Charging, Open Hearth)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Stamp, C. E. & Co., Cleveland, O.
Varley Iron & Steel Works Co., Cleveland, O.

Boxes (Core, for Foundry Use)

Handy Core Box Co. ("Handy"), Brightwood, Springfield, Mass.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)

Boxes (Corrugated Paper)

Buffalo Box Factory (All Sizes), Buffalo, N. Y.

Boxes (Annealing)

Anderson Foundry & Machine Works (Wrought Iron), Anderson, Ind.

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of book)

MACKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end of book)

McNell, Jas. & Bro. Co., 29th & A. V. Ry., Pittsburg, Pa.

Meehan Boiler & Constr. Co., Lowellville, O.

Mesta Machine Co., Lewis bldg., Pittsburg, Pa.

National Mfg. Co., N S, Pittsburg, Pa.

National Wrought Iron Annealing Box Co., Anderson, Ind.

Pollock, Wm. B. Co., Youngstown, O.

REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)

Ritter-Conley Mfg. Co., 56 Water, Pittsburg, Pa., & 111 B'way, New York

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

STRONG, CARLISLE & HAMMOND
Co. (Also Case-Hardening), 336-344 Frankfort av., N W, Cleveland, O. (See adv. index, end of book)

Union Steel Casting Co. ("Unlon" Truss Supported Roof One-Piece Cast Steel), Pittsburg, Pa.

Warren City Tank & Boiler Co., Warren, O.

WILFONG BROS., 52d & Grays av., Phila., Pa. (See adv. index, end of book)

Boxes (Axle Grease)

Estes, E. B. & Sons, 74 Warren, New York

Michigan Barrel Co., Grand Rapids, Mich.

Boxes (Berry)

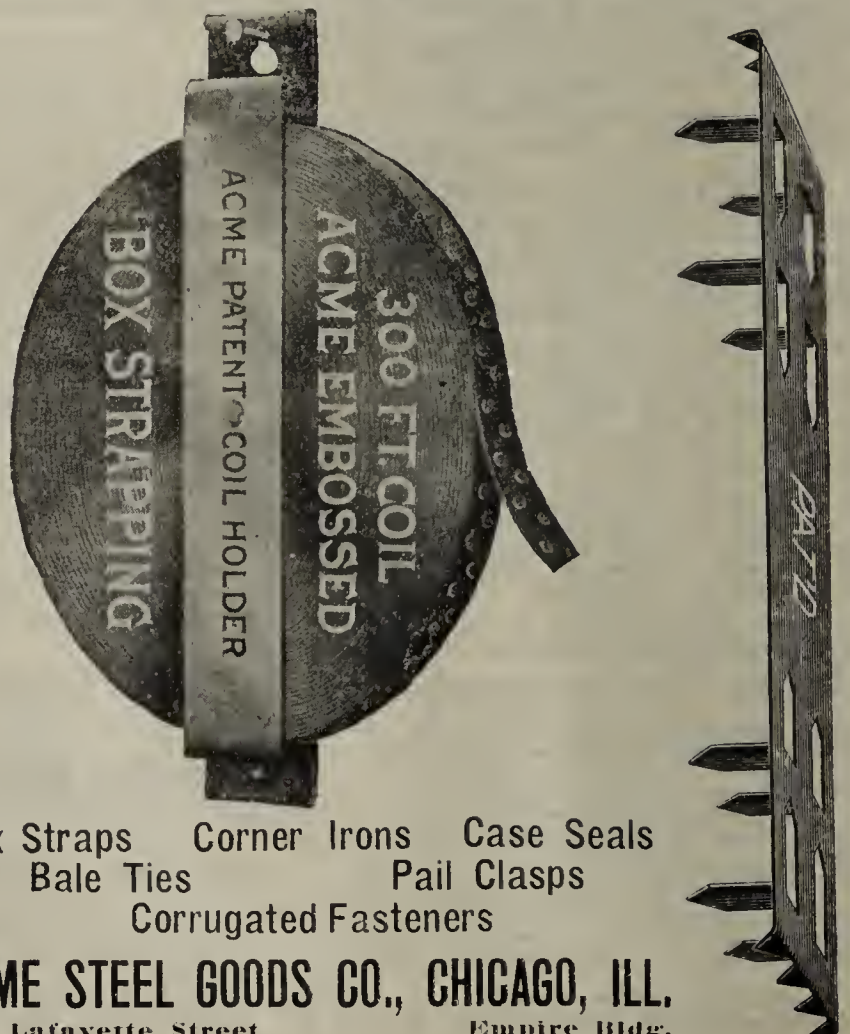
Baumelster, F. & Son, Rockwood, Mich.

Colby-Hinkley Co. (Baskets & Veneers), Benton Harbor, Mich.

Eaglesville Basket Works, Eaglesville, O.

South Side Mfg. Co., 114 Warren, New York

Wells-Higman Co., St. Joseph, Mich.



Box Straps Corner Irons Case Seals
Bale Ties Pail Clasps

Corrugated Fasteners

ACME STEEL GOODS CO., CHICAGO, ILL.

147 Lafayette Street
NEW YORK CITY

Empire Bldg.
ATLANTA

*Boxes (Coupling, for Feeder Cable)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Boxes (Curb)

Campbell, J. B. Brass Works, Erie, Pa.
Eastwood Wire Mfg. Co. (& Key), Belleville, N. Y.
National Mfg. & Supply Co. ("National" for Water or Gas), Minneapolis, Minn.
Rumsey & Co. (Ltd.) (For Service Pipe), Seneca Falls, N. Y.

Boxes (District Call)

BUNNEL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)

Gravity Electric Co., Milwaukee, Wis.
Herzog Telesome Co., 137 W 23d, New York.
Pearce, Fred'k Co., 18 Rose, New York
Signalphone Alarm Co., Montgomery bldg, Milwaukee, Wis.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Boxes (Dumping)

(See Wagon Dump Boxes)

Boxes (Electric Service)

Adams, F. Electric Co., St. Louis, Mo.
Andrae & Sous Co., Milwaukee, Wis.
Bonnell, Wm. A., 132 Church, New York.
Burns, Jas. F., 47 N Hutchinson, Phila., Pa.
Columbia Metal Box Co., 79 E 130th, New York
Connecticut Elec. Mfg. Co., Bantam, Conn.
D & W FUSE CO., Providence, R. I. (See adv. index, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Guilderland Foundry Co., Guilderland, N. Y.
Johns, H. W. Manville Co. ("Noark"), Arch & 32d, Phila., Pa.
Paiste, H. Y. & Co. ("Le Manquais"), Arch & 32d, Phila., Pa.
Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.
Troy Electrical Co., Troy, N. Y.
Trumbull Electric Mfg. Co., Plainville, Conn.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Boxes (Express Messenger)

HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index, end of book)

Boxes (Fare)

Brill, J. G. Co., Woodland av & 62d, Phila., Pa.
St. Louis Car Co., 8000 N B'way, St. Louis, Mo.

Boxes (Fibre)

(See also Pails, Fibre)

AMERICAN VULCANIZED FIBRE CO. ("Lamlnar"), Wilmington, Del. (See adv. index, end of book)
Kewlweid Can Co. (Also Cans), Detroit, Mich.

Boxes (Fire Alarm Signal)

BUNNEL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)

EDWARDS & CO., 407 E 144th, New York. (See adv. index, end of book)
Hayward, B. F. & Co., 39 Park pl., New York
Signalphone Alarm Co., Montgomery bldg, Milwaukee, Wis.
Star Electric Co., Binghamton, N. Y.

Boxes (Floor Outlet)

Steel City Electric Co. ("Fullman," Watertight Electric), Pittsburg, Pa.

Boxes (Folding Paper)

American Folding Box Co., 150 Worth, New York
American Paper Box Co., Grand Rapids, Mich.
Atwood-Raven Co., 403 E 23d, New York
Boas, Wm. J. & Co., 1042 Rldge av, Phila., Pa.

Boehme & Rauch Co., Monroe, Mich.
Brown & Bailey Co., 410 N Franklin, Phila., Pa.

Chicago Folding Box Co., 241 Jefferson, Chicago, Ill.
Conkey, W. B. Co. (Carton & Folding), Hammond, Ind.

Edwards Folding Box Co., 29 N 7th, Phila., Pa.
Empire Paper Tube & Box Co., 445 West, New York
Galr, Robert, Brooklyn, N. Y.
Housman, M., 338 B'way, New York
Munson & Co., New Haven, Conn.

National Folding Box & Paper Co., New Haven, Conn.

Russell R. Y. & Son Co., Chelsea, Mass.
St. Louis Paper Box Co., St. Louis, Mo.

Sefton, J. W. Mfg. Co., 1153 35th, Chicago, Ill.

Boxes (Folding & Knock Down, Shipping & Delivery)

Puffer-Hubbard Mfg. Co. (Made of Wood), Minneapolis, Minn.

Boxes (Fuse)

American Electric Fuse Co. ("American" Line), Muskegon, Mich.

American General Engineering Co. ("A. G. E." Quick Break), 253 B'way, New York
Brady, Thos. H. (Three Wire, etc.), New Britain, Conn.

Brodie Electric Co., Manchester, N. H.

Chicago Fuse Wire & Mfg. Co. ("Union"), 170 S Clinton, Chicago, Ill.

Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.

Columbia Metal Box Co., 79 E 130th, New York

Crouse-Hinds Electric Co., Syracuse, N. Y.

D & W FUSE CO., Providence, R. I. (See adv. index, end of book)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Harvard Electric Co., 60 W Van Buren, Chicago, Ill.

Hill, W. S. Electric Co., New Bedford, Mass.

Johns, H. W. Manville Co. ("Noark") Fuse & Service Boxes), 100 William, New York

Lippincott Steam Specialty & Supply Co. ("Patten"), Newark, N. J.

Pass & Seymour, Solvay, N. Y.

Philadelphia Electric & Mfg. Co., 2011 Market, Phila., Pa.

Rolfe Electric Co., Rochester, N. Y.

Tower-Blanford Elec. & Mfg. Co., Richmond, Va.

Troy Electrical Co., Troy, N. Y.

*Boxes (Fused Coupling, for Feeder Cables)

D & W FUSE CO., Providence, R. I. (See adv. index, end of book)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

*Boxes (Fused Subway)

D & W FUSE CO. ("D & W"), Providence, R. I. (See adv. index, end of book)

Boxes (Jack)

American Elec. Telephone Co., 64th and State, Chicago, Ill.

Garl Electric Co., Akron, O.

Matthews, W. N. & Bros ("Lima"), 205 N 2d, St. Louis, Mo.

Standard Telephone Mfg. Co. ("Standard"), Portsmouth, O.

Boxes (Journal)

American Car & Foundry Co., St. Louis, Mo., & 25 Broad, New York

Anti-Friction Journal Box Co. (Boiler Bearing Anti-Friction), Los Angeles, Cal.

BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)

Benton Harbor Malleable Foundry Co. ("Rogers" Dust Proof), Benton Harbor, Mich.

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Chester Steel Casting Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.

Chickasaw Iron Works, Memphis, Tenn.

Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Davis Solid Truss Brake Beam Co., Wilmington, Del.

Dodge Mfg. Co., Mishawaka, Ind.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Fuller & Stowell Co., Milwaukee, Wis.

Gould Coupler Co. ("Gould" Malleable Iron), 345 5th av, New York

Great Western Mfg. Co., Leavenworth, Kan.

Llewitt Mfg. Co., Railway Exchange bldg, Chicago, Ill.

Illinois Car & Equipment Co., Old Colony bldg, Chicago, Ill.

Jones, E. D. & Sons Co., Pittsfield, Mass.

Kansas City Railway Foundry Co. ("Rogers"), Kansas City, Kan.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

Kingsland-Kay-Cooke Mfg. Co., Mullanphy & 11th, St. Louis, Mo.

Kirby Equipment Co., Railway Ex, Chicago, Ill.

Leffel, Jas. & Co. (Inc.), Springfield, O.

McCord & Co. ("McCord" Malleable Iron for Railroads), Old Colony bldg, Chicago, Ill.

Nordyke & Marmon Co. (Ball & Socket), Indianapolis, Ind.

Ohio Brass Co., Mansfield, O.

Ohio Brass Foundry, 209 Lawrence, Cincinnati, O.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Railway Appliances Co., Old Colony bldg, Chicago, Ill.

Symington, T. H. Co. ("Symington"), Baltimore, Md.

Taylor Electric Truck Co., Troy, N. Y.

Trump Mfg. Co., Springfield, O.

Union Spring & Mfg. Co. ("Kensington" All-Steel), Pittsburg, Pa.

Boxes (Junction or Outlet)

Adam, Frank Electric Co. (Floor & Wall), St. Louis, Mo.

Advance Mfg. Co. ("Heinz"), Pittsburg, Pa.

Andrews & Johnson Co., 240 Washington boul, Chicago, Ill.

Appleton Electric Co. ("Unileis"), 224 Washington, Chicago, Ill.

Benjamin Elec. Mfg. Co. (Waterproof), 40 W Jackson boul, Chicago, Ill.

Bossert Electric Cons. Co. (Steel), Utica, N. Y.

Brady, T. H., New Britain, Conn.

Burns, Jas. F., 47 N Hutchinson, Phila., Pa.

Chase-Shawmut Co. ("Knockout"), Newburyport, Mass.

Chicago Fuse Wire & Mfg. Co. ("Union"), 170 S Clinton, Chicago, Ill.

Clarke & Coulan, 27 Thames, New York

Columbia Metal Box Co., 79 E 130th, New York

Connecticut Elec. Mfg. Co., Bantam, Conn.

Cook, Frank B., 240 W Lake, Chicago, Ill.

Crouse-Hinds Co. ("Condulets"), Syracuse, N. Y.

D & W FUSE CO., Providence, R. I. (See adv. index, end of book)

Dean S. & Co., Boston, Mass.

Electric Fittings Co. ("Hunt" Floor), Trumansburg, Pa.

Electric Mfg. Co., New Orleans, La.

Electric Supply & Construction Co. (Floor Only), Columbus, O.

Fountain, Juo. J., Jr. ("Gem" Floor Only), 29 Murray, New York

Frantzen, Arthur Co., 92 W Van Buren, Chicago, Ill.

Garrett, Miller & Co., Wilmington, Del.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Gleason, John L. ("Fancieve" for Exposed Conduits), Jamaica Plains, Boston, Mass.

Harvard Electric Co., 60 W Van Buren, Chicago, Ill.

Irish W. F. Elec. Co. ("Shamrock"), 60 Cortlandt, New York

Krantz, H. Mfg. Co. ("De Rycke"), 160 7th, Brooklyn, N. Y.

Lang, J. Electric ("Quixet" Floor), 116 N Lincoln, Chicago, Ill.

Lord Electric Co. ("Knickerbocker" Floor), 213 W 40th, New York

McCarthy Bros. & Ford, 41 Eagle, Buffalo, N. Y.

Machen & Myer Elec. Co. ("M. & M."), 12th & Buttonwood, Phila., Pa.

Myers Electric Co. ("Boxet"), Syracuse, N. Y.

New England Machine & Electric Co., Pawtucket, R. I.

Pass & Seymour, Solvay, N. Y.

Pratt Chuck Co., Frankfort, N. Y.

Pringle Electrical Mfg. Co., 1906 N. 6th, Phila., Pa.

Protective Electrical Supply Co., Fort Wayne, Ind.

Renim Specialty Co. ("Renim" Conduit Boxes for Cleat Wiring, etc.), Brighton, Boston, Mass.
 Robb & Blackmer, Boston, Mass.
 Russell & Stoll Co. (Floor Only), 48 Cliff, New York
 Seldler & Miner Electric Co. (Marine), Detroit, Mich.
 Sprague Electric Co. (Universal), 529 W 34th, New York
 Standard Underground Cable Co., Westinghouse bldg, Pittsburg, Pa.
 Stanley & Patterson ("Simplex," Floor), 23 Murray, New York
 Steel City Electric Co. ("Fullman" Electric, "Flexbox" Steel), Pittsburg, Pa.
 Stecker Elec. & Machine Co., Detroit, Mich.
 Thomas & Betts Co. ("Metzger"), 299 B'way, New York
 Ward, Leonard Electric Co., Bronxville, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Zenco Electrical Supply Co. ("Chicago," Floor), 92 Van Buren, Chicago, Ill.

Boxes (Litho Metal)

American Can Co., 417 W 14th, New York
 American Stopper Co., 19 Verona, B'klyn, N. Y.
 Buckeye Stamping Co., Columbus, O.
 Burdick & Son, Albany, N. Y.
 Columbia Can Co., Madison, 1st & 2d, St. Louis, Mo.
 Columbia Specialty Co., 1508 E Fayette, Baltimore, Md.
 Eastern Machine & Stamping Co., Providence, R. I.
 National Can Co., Detroit, Mich.
 Taite & Sisler Co., 12th & Catbarine, Phila., Pa.

Boxes (Lock)

Clark, W. J. Co., Salem, O.
 Corbin Cabinet Lock Co., New Britain, Conn.
 Miller Lock Co., 4523 Tacony, Phila., Pa.
 Yale & Towne Mfg. Co., 9 Murray, New York Works, Stamford, Conn.

Boxes (Lock Corner)

AMERICAN CRAYON CO. (Basswood), Sandusky, O. (See adv. index & branch offices, end of book)

Bogert & Hopper, 162 William, New York
 Butts, Chas. G. Co., N Tonowanda, N. Y.
 Connecticut Box Co., New Haven, Conn.
 Estes, E. B. & Sons, 74 Warren, New York
 Green, A. H. Co., 97 Warren, New York
 Hart, Dow, Jr., Marlboro, N. H.
 Page, Geo. G. Box Co., Cambridge, Mass.
 Schutz Bros., 71 W B'way, New York
 Sheip, Hy. H. Mfg. Co., 529 Columbia av, Phila., Pa.
 Tollner's, Chas. Sons Co., Pulaski, N. Y.
 Le Barron, S. T., 131 Border, E. Boston, Mass.
 New England Box Co., Greenfield, Mass.
 New Haven Mills Mfg. Co., New Haven, Conn.

Boxes (Locomotive Driving)

Keystone Bronze Co., 38th & A. V. ry, Pittsburg, Pa.

Boxes (Mail)

Barber Mfg. Co., Ashtabula, O.
BUNNELL, J. H. & CO. (For Apartment Houses, etc.), Park pl. & Church, New York. (See adv. index, end of book)
 Climax Lock & Ventilator Co. ("Climax"), 640 Ellicott sq., Buffalo, N. Y.
 Corbin Cabinet Lock Co. (Apartment House & Office Letter Boxes), New Britain, Conn.
 Duffield & Klepper ("D. & K."), Lathrop, Mo.
 Forest City Foundry & Mfg. Co. ("Standard"), Cleveland, O.
 Griswold Mfg. Co., Erie, Pa.
 Helise, Wm. F. Mfg. Co. ("XX Century"), 61 Union Park, Mt. Chicago, Ill.
 Home Specialty Co. (Galvanized Iron), Lorain, O.
 Manhattan Electrical Supply Co., 17 Park pl, New York
 Michigan Steel Box Co. (Steel Boxes), Adrian, Mich.

Nicol & Co., 66 N Jefferson, Chicago, Ill.
 Northwestern Mail Box Co. ("Carriers' Friend"), 5029 McKissock av, St. Louis, Mo.
 Partrick, Carter & Wilkins, 22d & Wood, Phila., Pa.
 Peck, C. A. Hardware Co. (Rural), Berlin, Wls.
 Phelps & Sons, 110 Pennington, Newark, N. J.
 Phoenix Hardware Mfg. Co., Hower, N. Y.
 Purcell, N. F. & Co., 232 S Clinton, Chicago, Ill.
 Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Tatum, Samuel C. Co., Cincinnati, O.
 Taylor & Boggis Foundry Co., Cleveland, O.
 Union Equipment & Bronze Co., 1901 Park av, New York
 Walsh, Owen Mfg. Co., 78 Barclay, New York
 Wilhelm, Henry, 70 Frost, Brooklyn, N. Y.
 Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

Boxes (Manhole Junction)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Standard Underground Cable Co., Pittsburg, Pa.

Boxes (Meter)

Brady, T. H. (For Sealing Wires After Meter Is Removed), New Britain, Conn.
 Clark, H. W. Co., Mattoon, Ill.

Boxes (Miners' Squib)

Anton, Geo. & Bro., Monongahela, Pa.

Boxes (Mitre)

Braunsdorf-Mueller Co. ("Dorn" Revolving), Elizabeth, N. J.
 Dosch Mfg. Co. ("Improved Union"), Bridgeport, Conn.
 Doscher Plane & Tool Co., Saugatuck, Conn.
 Goodell Mfg. Co. (Bessemer Steel), Greenfield, Mass.
 Langdon Mitre Box Co. ("Langdon Acme"), Millers Falls, Mass.
 McCarty, J. C. & Co. ("Victor" Folding), 21 Murray, New York
 McFarlan & Spiker Mfg. Co. ("Excelsior" & "Spelter"), Cincinnati, O.
 Macomber Mfg. Co. (Revolving), Plainfield, Ind.
 Marsh, H. C. Co. ("Marsh-Langdon"), Rockford, Ill.
 Millers Falls Co. ("Langdon," "Star"), 28 Warren, New York; Works: Millers Falls, Mass.
 Nichols Mfg. Co., Ottumwa, Iowa
 Schatz Mfg. Co., Chappaqua, N. Y.
 Seymour & Whittlock ("S. & W."), Newark, N. J.
 Smith & Hemenway Co. ("Seavey"), 108 Duane, New York
 Stanley Rule & Level Co. ("Stanley"), New Britain, Conn.
 Stearns, E. C. & Co. ("Stearns" Folding), Syracuse, N. Y.
 Tower & Lyon Co. ("The Perfection"), 95 Chambers, New York

Boxes (Outlet or Junction)

(See Boxes, Junction)

Boxes (Muffle)

Bethlehem Foundry & Machine Co. (For Chemical Mfg. etc.), Front, South Bethlehem, Pa.

Boxes (Outlet, for Steel Armored Cables)

Steel City Electric Co. ("Flexbox"), Pittsburg, Pa.

Boxes (Packing)

(See Packing Box Manufacturers)

Boxes (Paper, Metal Edge)

National Metal Edge Box Co., Sth c Willow, Philadelphia, Pa.

*Boxes (Paper Shipping)

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)

Boxes (Patrol)

American Steel House Co., 798 11th av, New York

Boxes (Plumbers' Grease, Rosin, Etc.)

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Boxes (Post Office Lock)

Yale & Towne Mfg. Co., 9 Murray, New York

Boxes (Quarry Dump)

Steam Stone Cutter Co. (For Quarry Waste, etc.), Rutland, Vt.

Boxes (Resistance)

(See Rheostats)

Boxes (Rural Mail)

Blick-Williams Co., Indianapolis, Ind.
 Briscoe Mfg. Co., Detroit, Mich.
 Bushnell Tank Works, Bushnell, Ill.
 Century Post Co., Tecumseh, Mich.
 Dalrymen's Mfg. Co. ("Dandy"), Jersey City, N. J.
 Deshler Mail Box Co. ("Deshler"), Deshler, O.
 Hawkeye Pump Co. ("Hawkeye"), Washington, Ia.
 Hessler, H. E. Co. ("Hessier"), Syracuse, N. Y.
 Kelly Foundry & Machine Co., Goshen, Ind.
 Kelly Mfg. Co., Waterloo, Iowa
 Peck, C. A. Hardware & Mfg. Co. ("Gem"), Weich Co., Nankin, O. Berlin, Wis.

*Boxes (Safe Deposit)

BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Boxes (Sand)

(See also Locomotive Sanders)

American Locomotive Sander Co., 13th & Wilcox, Phila., Pa.
 Brill, J. G. Co. ("Dumpit"), Phila., Pa.
 Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
 Dayton Mfg. Co. ("Simmons-Moore"), Dayton, O.
 De Witt Sand Box Co. ("Common Sense," "Simplex"), Troy, N. Y.
 Duner Co., 116 S Clinton, Chicago, Ill.
 Electric Heated Sand Box Co. ("Bacon & Callahan"), Boston, Mass.
 Knecht, Victor Co. ("Robinson"), Cincinnati, Ohio
 Lebanon Electric Co. ("Eureka"), Lebanon, Pa.
 Nolty & Co. ("Lancaster"), Lancaster, Pa.
 Ohio Brass Co. ("Universal" Air Sander), Mansfield, O.
 Positive Railway Sander Co., Lancaster, Pa.
 Ridlon, Frank Co. ("Kilbourn"), 251a Boston, Mass.
 Sterling-Meaker Co., 420 Ogden, Newark, N. J.
 Trojan Button Fasteners Co. ("Ham"), Troy, N. Y.
 Vogan Bros. Mfg. Co., New Castle, Pa.

Boxes (Seamless Tin)

Buckeye Stamping Co., Columbus, O.
 Runrill & Co., 52 Purchase, Boston, Mass.

Boxes (Shafting)

ALLIS-CHALMERS CO., Milwaukee, Wls. (See adv. index & branch offices, end of book)
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
 Caidwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
 Cresson, George V. Co., Allegheny av. W of 17th, Phila., Pa.
 Dodge Mfg. Co., Mishawaka, Ind.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Filer & Stowell Co., Milwaukee, Wis.
 Hunt, Rodney Machine Co., Orange, Mass.
 Hutchinson, Jno. Mfg. Co. (Roller Bearing Drop Hanger & Post Box), Jackson, Mich.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Medart Patent Pulley Co., St. Louis, Mo.
 Sellers, Wm. H. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
 Union Iron Works Co., San Francisco, Cal.
 Wood's T. B. Sons Co., Chambersburg, Pa.

Boxes (Shelf Hardware)

Green, A. H. Co. (Interchangeable Lock Corner), 97 Warren, New York
 Heller, W. C. & Co. (Varnished Oak Fronts), Montpelier, O.

Jones, Jesse Paper Box Co. (Wood), 615 Commerce, Philadelphia, Pa.
 Moore, C. P., Ravenswood, W. Va.
 Phillips, A. J. Co. (Track, Nail, etc.), Fenton, Mich.

Boxes (Sprue)

Sterling Wheelbarrow Co. ("Sterling" Steel), Milwaukee, Wis.

Boxes (Starting)

(See Rheostats)

*Boxes (Steel, Seamless Cold Pressed)

KEIM, JNO. R. MILLS (Inc.), Buffalo, N. Y. (See adv. index, end of book)

Boxes (Stoneware)

Graham, Chas. Chemical Pottery Works, 986 Metropolitan av, Brooklyn, N. Y.

Boxes (Stuffing)

Crane Co. (Est. 1855) (Brass), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 National Tube Co. (Brass), Pittsburg, Pa.

Boxes (Switch)

Burns, Jas. F., 47 N Hutchinson, Phila., Pa.
 Chicago Fuse Wire & Mfg. Co. ("Union"), 170 S Clinton, Chicago, Ill.
 Colgan, W. H. Co. ("Rex"), West Newton, Mass.
 Columbia Metal Box Co., 79 E 130th, New York
 Cutter Electrical & Mfg. Co. ("Munit"), 19th & Hamilton, Phila., Pa.
 Fountain, Jno., Jr., 29 Murray, New York
 Gleason, John L. ("Fancleva" for Exposed Conduits), Jamaica Plains, Boston, Mass.
HART MFG. CO. ("Diamond H"), Hartford, Conn. (See adv. index & branch offices, end of book)
 Hart & Hegeman Mfg. Co. ("H. & H."), Hartford, Conn.
 Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
 Holabird-Reynolds Elec. Co., Los Angeles, Cal.
 Lyon Metallic Mfg. Co., Aurora, Ill.
 Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
 Machen & Mayer Electrical Mfg. Co., 12th & Buttonwood, Phila., Pa.
 Marshall Electric Mfg. Co. ("M-S," "Allinone"), Boston, Mass.
 Myers Electric Co. ("Boxet"), Syracuse, N. Y.
 Nottingham, Wm. M., Syracuse, N. Y.
 Ostrander & Co., 22 Dey, New York
 Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.
 Renim Specialty Co. ("Renim" for Use with Rigid or Flexible Metallic Conduit, etc.), Brighton, Boston, Mass.
 Rice, Geo. H. Co. ("Hol-Ken"), 481 Sterling pl, Brooklyn, N. Y.
 Steel City Electric Co., Pittsburg, Pa.
 Thomas & Betts Co. ("Toler"), 299 B'way, New York
 Trumbull Elec. Mfg. Co., Plainville, Conn.

*Boxes (Switch, Fused Service)

D & W FUSE CO. ("D & W"), Providence, R. I. (See adv. index, end of book)

Boxes (Take Up)

Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
 Chain Belt Co., Milwaukee, Wis.
 Diamond Iron Works, Minneapolis, Minn.
 Dodge Mfg. Co., Mishawaka, Ind.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Nordyke & Marmon Co., Indianapolis, Ind.
 Stralt, H. N., Kansas City, Mo.
WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

Boxes (Telephone)

(See Woodwork, Electrical; also Telephone Cabinet Work)

Boxes (Telephone Toll)

Baird Mfg. Co., 1592 N Halsted, Chicago, Ill.
 Graeber-Entriklin Mfg. Co. ("Invincible"), 1116 Chestnut, Phila., Pa.
 Gray Telephone Pay-Station Co., Hartford, Conn.
 Turner Brass Works ("Telometer"), Franklin & Michigan, Chicago, Ill. Works: Sycamore, Ill.
 United States Coin Register Co., Toledo, O.

*Boxes (Ticket Cancelling)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Boxes (Tote, Sheet Steel)

Avery Stamping Co., Cleveland, O.
 Clark, W. J. Co., Salem, O.
 Cleveland Wire Spring Co., Cleveland, O.
 Globe Machine & Stamping Co., Cleveland, O.
 Heller, W. C. & Co. (For Dies, Bolts, Nuts, Screws, etc.), Montclair, N. J.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lyon Metallic Mfg. Co., Aurora, Ill.
 McClintock & Irvine Co., Neville & P. R. B., Pittsburg, Pa.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Ohio Galvanizing & Mfg. Co., Niles, O.
 Ohio Mfg. Co., Painesville, O.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Sterling Wheelbarrow Co., Milwaukee, Wis.
 Terrell's Equipment Co., Grand Rapids, Mich.
 Wall, P. Mfg. Supply Co., Allegheny, Pa.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Boxes (Transformer)

KEIM, JNO. R. MILLS (Inc.) (Cold Drawn Steel), Buffalo, N. Y. (See adv. index, end of book)

Boxes (Turned Wood)

(See also Boxes, Lock Cornered; also Wood Novelties, Turned)
 Estes, E. B. & Sons (Also Lock Cornered & Fancy Hardwood), 74 Warren, New York
 Schutz Bros., 71 W B'way, New York
 Sheip, H. H. Mfg. Co., 529 Columbia av, Philadelphia, Pa.

Boxes (Twine)

Landers, Frary & Clark, New Britain, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Tatnm, Samuel C. Co., Cincinnati, O.

Boxes (Valve & Service)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Bourbon Copper & Brass Works (Extension Service, etc.), Cincinnati, O.
 Builders' Iron Foundry ("Stacy" Extension Service), Providence, R. I.
 Campbell, J. B. Brass Works, Erie, Pa.
CANTON FOUNDRY & MACHINE CO. (Adjustable), Canton, O. (See adv. index, end of book)
 Casey-Hedges Co., Chattanooga, Tenn.
CENTRAL FOUNDRY CO. ("Buffalo" & "Phoenix" Pattern), 37 Wall, New York. (See adv. index, end of book)
 Clow, Jas. B. & Sons, 344 Franklin, Chicago.
 Clymer Machinery Co., Greensboro, N. C. Ill.
 Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
 Drummond, M. J. & Co., 182 B'way, New York
 Frost's, J. D. Sons Mfg. Co., Towanda, Pa.
 Hays Mfg. Co. (Extension Service), Erie, Pa.
 Illinois Malleable Iron Co., 515 Diversey boul, Chicago, Ill.
 Kennedy Valve Mfg. Co. (Extension Valve), Elmira, N. Y.
 Loetzer Valve & Mfg. Co. ("Loetzer" Extension Street), Monroeton, Pa.
 Modern Iron Works ("Peerless," Adjustable, Bignall Service or Stop-Cocks), Quincy, Ill.
 Mueller, H. Mfg. Co., Decatur, Ill.

Pittsburg Mfg. Co., 28th & Railroad, Pittsburg, Pa.
 Rensselaer Mfg. Co., Troy, N. Y.
 South Park Foundry & Machine Co., St. Paul, Minn.
 Taylor, W. P. Co., 218 Ellicott sp., Buffalo, N. Y.
 Vogan Bros. Mfg. Co., New Castle, Pa.
 Wood, R. D. & Co. (Adjustable), 400 Chestnut, Philadelphia, Pa.

Boxes (Wall)

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
 Cresson, Geo. V. Co., 18th & Allegheny av, Phila., Pa.
 Dodge Mfg. Co., Mishawaka, Ind.
 Lanz, M. & Sons (Steel), 101 S 29th, Pittsburg, Pa.
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Boxes (Waste)

Clark, W. J. Co., Salem, O.
 Ely & Williams Co. (Individual), 257 B'way, New York
 Hall Mfg. Co. ("Hall's"), John & Cliff, New York
KOVEN, L. O. & BRO. (Iron), 50 Cliff, New York. (See adv. index, end of book)
 Lyon Metallic Mfg. Co. (Iron), Aurora, Ill.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Braces (Cross Arm)

(See also Cross Arms, Brackets, Etc., Steel)
 Aetna Nut Co., Southington, Conn.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Bissell, F. Co. ("Security"), Toledo, O.
 Buffalo Steel Co. (Stiff Bessemer Steel), Tonawanda, N. Y.
 Cleveland Galvanizing Works Co., Cleveland, Ohio
 Creaghead Engineering Co., Cincinnati, O.
FOREST CITY STEEL & IRON CO., Cleveland, O. (See adv. index, end of book)
 Grabler Mfg. Co., Cleveland, O.
 Hallett Iron Works, 96 W Polk, Chicago, Ill.
 Hazel-Atlas Glass Co., Wheeling, W. Va.
 Hubbard & Co., Pittsburg, Pa.
 Inland Steel Co. (Bessemer Steel), First Nat'l Bank bldg, Chicago, Ill.
 Lanz, Matthew & Sons, Pittsburg, Pa.
 McCance Bros. Co. (Plain & Galvanized), Pittsburg, Pa.
 Meckel, Fred. L., 83 E 13th, Chicago, Ill.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Ohio Brass Co., Mansfield, O.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Schafer Construction Material Co., 136 Liberty, New York

*Braces (Ladder Elevator with Platform)

TAYLOR, JAS. L. MFG. CO., Bloom-field, N. J. (See adv. index, end of book)

*Braces (Ladder Foot)

TAYLOR, JAS. L. MFG. CO., Bloom-field, N. J. (See adv. index, end of book)

Braces (Pole Arm)

(See Braces, Cross Arm)

Braces (Sewer)

(See Sewer Braces)

Brackets

American Foundry & Mfg. Co. (Plumbers, Shelf, etc.), 11th & Hebert, St. Louis, Mo.
 American Pln Co. (Brass, Lavatory, Tank, etc.), Waterbury, Conn.
 Atlas Mfg. Co. (Shelf), New Haven, Conn.
 Barber Mfg. Co. (Plumbers' Adjustable, Nickled, etc.), Ashtabula, O.
 Barnes Mfg. Co. (Plumbers, etc.), Mansfield, O.

Berger, B. A. Mfg. Co. (Steel Sink), Richmond, Va.
Buckley-Hart Mfg. Co. (Lavatory), 527 Franklin, Detroit, Mich.
Campbell Mfg. Co. (Extension Sink), Gadsden, Ala.

Casey-Hedges Co. (Sink), Chattanooga, Tenn.
Cassady-Fairbank Mfg. Co. (Bath Room), 6106 La Salle, Chicago, Ill.

CENTRAL FOUNDRY CO. (Sink; also
Extension Sink, Adjustable), 37 Wall, New York. (See adv. index, end of book)

Edwardsville Brass Co. (Iron, Steel & Brass), Edwardsville, Ill.

Glenn Mfg. Co. (Plumbers Sink), St. Charles, Ill.

Grabler Mfg. Co. (Soil Pipe, etc.), Cleveland, Ohio

Griffin Mfg. Co. (Lavatory, Sink & Flush, Tank, etc.), Erie, Pa.

Haines, Jones & Cadbury Co. (Plumbers), 1136 Ridge av, Phila., Pa.

Ideal Mfg. Co., Detroit, Mich.

Ireland & Matthews Mfg. Co. (For Plumbers' Tanks), Detroit, Mich.

Kilbourne & Jacobs Mfg. Co. (Steel Sink), Columbus, O.

Kupferle, John C. Foundry Co. (Sink, Tank, etc.), St. Louis, Mo.

Lelance & Grosjean Mfg. Co. (Plumbers), 299 B'way, New York

Lipp, Louis Co. (Closot Tank), Winton pl, Cincinnati, O., & 120 High, Boston, Mass.

McCambridge & Co. (Plumbers'), 315 N 20th, Philadelphia, Pa.

McDonald, A. Y. & Morrison Mfg. Co. ("Diamond" Plumbers), Dubuque, Ia.

McKinney Mfg. Co. (Shelf), Allegheny, Pa.

Mack Iron Works Co., Sandusky, O.

Modern Iron Works (Cast Iron Sink), Quincy, Ill.

Mott, J. L. Iron Works, 118 5th av, New York

Mullaney's, Jas. Son (Plumbers, Brass, Basin & Cistern), 25th & Lexington av, New York

Nelson, N. O. Mfg. Co., St. Louis, Mo.

Northwestern Foundry & Supply Co. (Sink), Detroit, Mich.

Ohio Brass & Iron Mfg. Co. (Plumbers'), Cleveland, O.

Ohio Foundry Co. (Sink), Dayton, O.

Park & McKay Co., Detroit, Mich.

Peck, Stow & Wilcox Co. (Shelf), Southington, Conn.

Penn Hardware Co. (Plumbers' & Shelf, Cast & Wrought Steel), Reading, Pa.

Phoenix Hardware Mfg. Co. (Plumbers'), Homer, N. Y.

Piqua Bracket Co. ("Baines" Patent Adjustable), Piqua, O.

Reading Hardware Co. (Iron Shelf & Screen Door), Reading, Pa.

Rumsey & Co. (Ltd.) (Adjustable Sink, etc.), Seneca Falls, N. Y.

Sanitary Co. (Plumbers, "Paragon" Brass), Cleveland, O.

STANLEY WORKS (Wrought Steel
Shelf), New Britain, Conn. (See adv. index & branch offices, end of book)

Stover Mfg. Co. (Plumbers' & Shelf), Freeport, Ill.

Stowell Mfg. & Foundry Co. (Plumbers'), S Milwaukee, Wis.

Swett, A. L. Iron Works (Sink), Medina, N. Y.

TURNER & SEYMOUR MFG. CO.
(Curtain Pole & Rod), Torrington, Conn. (See adv. index, end of book)

Wells Light Mfg. Co. ("Wallwork's Universal" Electric Lamp), Jersey City, N. J.

Wolverine Brass Works (Lavatory), Grand Rapids, Mich.

Wrightsville Hardware Co. (Shelf, Plumbers, etc.), Wrightsville, Pa.

Young, Joseph H. ("Boston" Adjustable, for Tray & Sink), 80 High, Boston, Mass.

Brackets (Arc Lamp)

Ajax Line Material Co. ("Jonie," "Mitre"), 12 S Jefferson, Chicago, Ill.

American Electric Construction Co., 138 Washington, Chicago, Ill.

Cutter, Geo. Co., South Bend, Ind.

Fletcher Mfg. Co., Dayton, O.

Mott, J. L. Iron Works, 118 5th av, New York

Tea Tray Co., Newark, N. J.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Wheeler Reflector Co., Boston, Mass.

Brackets, Cross-Arms, Etc.

(See Brackets, Trolley Pole; also Cross-Arms, Brackets, Etc.)

Brackets (Curtain Pole)

BAY STATE STAMPING CO. ("Ben-
nett," Adjustable), 380 Chandler, Worcester, Mass. (See adv. index, end of book)

Judd, H. L. & Co., S7 Chambers, New York

Metal Mfg. Co., New Haven, Conn.

Mott Iron Works, 118 5th av, New York

Nelson, N. O. Mfg. Co., St. Louis, Mo.

TURNER & SEYMOUR MFG. CO.,
Torrington, Conn. (See adv. index, end of book)

Wire Goods Co., Worcester, Mass.

Brackets (Desk Telephone)

American Electric Telephone Co. ("Burns"), 64th & State, Chicago, Ill.

Chicago Writing Machine Co. ("Adjustaphone"), Galesburg, Ill.

Connecticut Tel. & Electric Co., Meriden, Conn.

Cook, Frank B., 240 W Lake, Chicago, Ill.

DeVeau Telephone Mfg. Co. ("Victor"), 476 18th, Brooklyn, N. Y.

Fox-Borden Mfg. Co. ("Phone-Eze"), 27 Thames, New York

Holtzer-Cabot Electric Co., Brookline, Mass.

K-B. Co. ("Ben-bow"), 38 S 6th, Phila., Pa.

Lee Electric Co. ("Davis," "Calvert," Adjustable), 219 N Calvert, Baltimore, Md.

McCluney, Sam'l C. ("Hamilton"), St. Louis, Mo.

Melink Mfg. Co., Toledo, O.

Novelty Electric Co., 50 N 4th, Phila., Pa.

Oliver Mfg. Co. ("Equipoise," "Ad-A Link"), 1020 Walnut, Phila., Pa.

Schofield & Co., 150 Nassau, New York.

Stanley & Patterson ("Imperial"), 23 Murray, New York

Swedish-American Telephone Co., 1760 E Ravenswood pk, Chicago, Ill.

Warner Electric Co. (Oxodized Finished), Muncie, Ind.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Wilhelm Telephone Mfg. Co., Buffalo, N. Y.

Brackets (Electric House)

Ajax Line Material Co., 12 S Jefferson, Chicago, Ill.

Brady, T. H., New Britain, Conn.

Cutter, Geo. Co., South Bend, Ind.

Electrical Construction Supply Co. ("Chub-buck"), Springfield, O.

Fletcher Mfg. Co., Dayton, O.

Hallett Iron Works, 96 W. Polk, Chicago, Ill.

Hartford Electric Co., 60 W Van Buren, Chicago, Ill.

Metal Finishing Co. ("Beardsley"), Union City, Conn.

Morris, Elmer P. Co., 72 Trinity pl, New York

Pierce Specialty Co., Elkhart, Ind.

Spencer's, I. S. Sons, Guilford, Conn.

Brackets (Flag Pole)

Hart, Walter, 111 Chambers, New York

Metal Finishing Co., Union City, Conn.

Wilcox, Crittenden & Co., Middletown, Conn.

Wrightsville Hardware Co., Wrightsville, Pa.

Brackets (Folding Scaffold)

Celebrated Scaffold Bracket Co. (Scaffold), 647 6th av, Milwaukee, Wis.

Moulton, C. W. & Co., Somerville, Mass.

Brackets (Folding Shelf)

Griffin Mfg. Co. (Pressed Steel), Erie, Pa.

Brackets (Hand & Foot Rail)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.

Arcade Mfg. Co., Freeport, Ill.

Cheney, S. & Son, Manlius, N. Y.

Glenn Mfg. Co. (Counter Rail), St. Charles, Ill.

Heath-Johnson Co. (Inc.), 123 Ontario, Chicago, Ill.

Norwalk Lock Co., S Norwalk, Conn.

Penn Hardware Co., Reading, Pa.

Pratt, Wm. E. Mfg. Co. (Hand Rail), 91 Lake, Chicago, Ill.

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Stearns, E. C. & Co., Syracuse, N. Y.

Union Equipment & Bronze Co., 1901 Park av, New York

Western Brass Mfg. Works, 21st & Rockwell, Wilcox Mfg. Co., Aurora, Ill. Chicago, Ill.

WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv. index, end of book)

*Brackets (Ladder Platform)

TAYLOR, JAS. L. MFG. CO., Bloom-
field, N. J. (See adv. index, end of book)

*Brackets (Ladder Scaffold)

TAYLOR, JAS. L. MFG. CO., Bloom-
field, N. J. (See adv. index, end of book)

Brackets (Rafter)

London Machinery Co., Fairfield, Iowa.

Myers, F. E. & Bro., Ashland, O.

Ney Mfg. Co., Canton, O.

Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.

Brackets (Roof)

Coldwater Specialty Mfg. Co., Coldwater, Mich.

EDWARDS MFG. CO., 545-565 Eg-
gleston av, Cincinnati, O. (See adv. index, end of book)

Henderson, A. P. ("Henderson" Self-Locking, Adjustable), Hanover, Mass.

Metal Finishing Co., Union City, Conn.

Moulton, C. W. & Co., Somerville, Mass.

Wagner Mfg. Co. ("Wagner"), Cedar Falls, Ia.

Brackets (Shelf)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.

Arcade Mfg. Co., Freeport, Ill.

Atlas Mfg. Co. ("Bradleys"), New Haven, Conn.

Baltimore Hinge Co., Baltimore, Md.

Brass Goods Mfg. Co., Nevin & Union, Brook-Chalfant Mfg. Co., Lancaster, Pa. lyn, N. Y.

Cleveland Lock Co. ("Hercules"), Cleveland, O.

Dayton Malleable Iron Co., Dayton, O.

Grand Rapids Brass Co., Grand Rapids, Mich.

Griffin Mfg. Co. (Pressed Steel), Erie, Pa.

McKinney Mfg. Co. (Wrought Steel), Pittsburg, Pa.

Peck, Stow & Wilcox Co., Southington, Conn.

Penna. Hardware Co. (Cast & Wrought Steel), Reading, Pa.

Piqua Bracket Co. ("Piqua" Adjustable), Piqua, Ohio

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn.

STANLEY WORKS (Wrought Steel),
New Britain, Conn. (See adv. index & branch offices, end of book)

Stover Mfg. Co. (Plumbers' & Shelf), Freeport, Ill.

Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Van Doorn Co. (Adjustable, Brass Coppered, Nickle Plated etc.), Quincy, Ill.

Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Wrightsville Hardware Co., Wrightsville, Pa.

Brackets (Shingling)

(See Brackets, Roof)

Brackets (Slaters' Scaffold)

Stortz, John & Son, 210 Vinc, Phila., Pa.

Brackets (Staging)

Boston Bolt Co., 40 Farnsworth, Boston, Mass.

*Brackets (Steel, for Painters')

TAYLOR, JAS. L. MFG. CO., Bloom-
field, N. J. (See adv. index, end of book)

Brackets (Steel Scaffold)

McIntyre Steel Scaffold Bracket Co. ("McIntyre"), Detroit, Mich.

TAYLOR, JAS. L. MFG. CO., Bloom-
field, N. J. (See adv. index, end of book)

*Brackets (Steel Shingling)

TAYLOR, JAS. L. MFG. CO., Bloom-
field, N. J. (See adv. index, end of book)

Brackets (Table)

Mott Iron Works, 118 5th av, New York
Universal Caster & Foundry Co., 1170 B'way,
New York. Factory: Newark, N. J.

Brackets (Telephone Pole)

(See also Brackets, Desk Telephone)

Connecticut Telephone & Electric Co., Meriden,
Conn.
Electrical Cons. Supply Co. (Malleable Iron),
Springfield, O.
Griggs Mfg. Co., 79 5th av, Chicago, Ill.
Mott Iron Works, 118 5th av, New York
Mountain State Electrical Co. (Construction),
Wheeling, W. Va.
Nelson, N. O. Mfg. Co., 8th c St. Charles, St.
Norton Tool Co., West Park, O. Louis, Mo.

Brackets (Third Rail)

Beaver Dam Malleable Iron Co., Beaver Dam,
Pa.

Brackets (Trolley Pole)

(See also Cross Arms; also Insulator Pins &
Brackets)

Ajax Line Material Co. ("Votta"), 12 W S Jef-
ferson, Chicago, Ill.
American Bridge Co. (Steel), 30 Church, New
York
Anderson, Albert & J. M. Mfg. Co., 287 A, S.
B., Boston, Mass.
Bissell, F. Co. ("Security," Angle Iron), To-
brady, T. H., New Britain, Conn. ledon, O.
Creaghead Engineering Co. (Flexible), Cincin-
Cutter, Geo. Co., South Bend, Ind. nati, O.
Electric Railway Equipment Co., Cincinnati, O.
Fletcher Mfg. Co. (Iron), Dayton, O.
Francis, Philip S. (Adjustable), 115 N 6th,
Phila., Pa.
Hallett Iron Works, 96 W Polk, Chicago, Ill.
Hill, W. S. Elec. Co., New Bedford, Mass.
Hubbard & Co., Pittsburg, Pa.
Lanz, M. & Son, 29th & Carson, Pittsburg, Pa.
Metal Finishing Co., Union City, Conn.
Morris, Elmer P. Co. (Wrought Iron & Steel
Tubular), 90 West, New York
Noblett, E. J. Co. (Wood), Peoria & 121st,
Chicago, Ill.
Ohio Brass Co. (All Kinds), Mansfield, O.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Pierce, Specialty Co., Elkhart, Ind.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York
Wisconsin Bridge & Iron Co., Milwaukee, Wis.

Brackets (Wall, for Power Transmission)

(See Power Transmitting Machinery)

Brackets (Wood)

McMillen, R. Co., Oshkosh, Wis.
Morgan Co., Factory & General offices, Oshkosh,
Peirce, W. E. & Co., Milford, N. H. Wis.
Riggs Cypress Co., Patterson, La.
STEARNS, A. T. LUMBER CO., Ne-
ponset, Boston, Mass. (See adv. index, end
of book)
Zimmerman, Chas. E., 204 Burnet av, Syra-
cuse, N. Y.

*Brake Banding for Automobiles

ROSSENDALE - REDDAWAY BELT-
ing & Hose Co. ("Camel" Brand), New-
ark, N. J. (See adv. index, end of book)

Brake Beams

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bethlehem Steel Co. (Open-Hearth Steel),
South Bethlehem, Pa., & 111 B'way, New
York
Bettendorf Axle Co. (Car), Davenport, Iowa
Chicago Railway Equipment Co. ("Kewanee,"
"Diamond," "Creco," "Sterlingworth" &
"Monarch"), 4054 Princeton av, Chicago,
Ill.
Damascus Brake Beam Co. ("Waycott," "Da-
musus"), Cleveland, O.
Davis Solid Truss Brake Beam Co., Wilming-
ton, Del.
Niagara Forged Steel Co., Buffalo, N. Y.
Simplex Railway Appliance Co., Commercial
Nat'l B'k bldg, Chicago, Ill.; Works: Ham-
mond, Ind.

Standard Steel Car Co., Frick bldg, Pittsburg, Pa.
Sterlingworth Railway Supply Co. (Rolled
Steel), North American bldg, Phila., Pa.
Works, Easton,
U. S. Metal & Mfg. Co. ("Damascus"), 25
Broad, New York
Western Steel Car & Foundry Co., Old Colony
bldg, Chicago, Ill.

*Brake Equipment for Traction Cars (Power)

WESTINGHOUSE TRACTION BRAKE
Co., Pittsburg, Pa.

Brake Jaws

Cleveland City Forge & Iron Co., Lakeside
av, opp E 45th, N E, Cleveland, O.
Dayton Malleable Iron Co. ("Kelly"), 1303 W
3d, Dayton, O.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Peacock's Iron Works, Selma, Ala.
Solid Steel Tool & Forge Co., Brackenridge, Pa.
Steel Car Forge Co., Pittsburg, Pa. Works,
Elwood City, Pa.
U. S. Metal & Mfg. Co. ("Howard" Wrought
Iron & Western Railway Equipment Mallea-
ble Iron), 165 B'way, New York

Brake Levers

Altoona Iron Co. (Wrought Iron), Altoona, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Dayton Malleable Iron Co. (Made from Malle-
able Iron), Dayton, O.
Steel Car Forge Co., Pittsburg, Pa. Works, El-
wood City, Pa.

Brake Shoe Wheel Truing

Car Wheel Truing Brake Shoe Co., Ellicott sq,
Buffalo, N. Y.
Wheel Truing Brake Shoe Co., The Lenox, De-
troit, Mich.

Brake Shoes

Adams, S. Jarvis Co., Midland, Pa.
AMERICAN BRAKE SHOE & FOUN-
dry Co. (Railway), Mahwah, N. J., & West-
ern Union bldg, Chicago, Ill. (See adv. in-
dex, end of book)
American Steel Foundries (Open Hearth Steel),
Main Office, 42 B'way, New York
American Car & Foundry Co., 706 Chestnut,
St. Louis, Mo., & 25 Broad, New York
Baltimore Car-Wheel Co., Fulton Station, Bal-
timore, Md.
Barbour-Stockwell Co. (Electric Railway), Cam-
bridge, Mass.
Barnum-Richardson Co., Lime Rock, Conn.
Bellwood Mfg. Co., Bellwood, Pa.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Buckeye Steel Castings Co., Columbus, O.
Buda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill.; Works: Harvey, Ill.
Chester Steel Castings Co., Chester, Pa., & 407
Sansom, Phila., Pa.
Chicago Brake Shoe Co., 277 Dearborn, Chicago,
Ill.
Columbia Brake Shoe & Foundry Co., Cincin-
nati, O.
Elmira Heights Foundry, Elmira, N. Y.
Fulton Foundry Co., Cleveland, O.
Lehigh Car Wheel & Axle Works, Catasauqua,
Lima Brake Shoe Co., Lima, O.
Lorraine Foundry Co., Bush & Wilcomico, Bal-
timore, Md.
Love Brake Shoe Co. ("Armbrust"), Fisher
bldg, Chicago, Ill.
McCord & Co., Old Colony bldg, Chicago, Ill.
McGuire-Cummings Mfg. Co., 112 N Sangamon,
Chicago, Ill.
McIntyre, Robert J., Allentown, Pa.

MACKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)

Morris & Lewis ("Walsh"), Rock Island, Ill.
Mowry Car Wheel Works, 2401 Eastern av,
Cincinnati, O.
Murray Iron Works Co., Burlington, Iowa.
N. Y. Car-Wheel Co., 15 Forest, Buffalo, N.
Y., & 771 Greenwich, New York
Parker & Topping ("The Diamond S"), Brain-
erd, Minn.
Peacock's Iron Works, Selma, Ala.
Pittsburg Brake Shoe Co., Farmers B'k bldg,
Pittsburg, Pa.
Reliance Steel Casting Co. (Ltd.), Pittsburg,
Pa.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)
Spear & Miller Co. ("The Ideal"), Monadnock
b'k, Chicago, Ill.

Standard Brake Shoe Co. ("Standard"), Aurora,
Swett, A. L. Iron Works, Medina, N. Y. Ill.
Taylor Electric Truck Co. ("Taylor"), Troy,
N. Y.
Vulcan Iron Works ("Reilly"), Toledo, O.
Welsh Brake Shoe & Foundry Co., East Moline,
Ill.
Western Steel Car & Foundry Co. (Grey Iron),
Old Colony bldg, Chicago, Ill.
Wharton, Wm., Jr., & Co. (Inc.) (Electric Rail-
way), 25th & Washington av, Phila., Pa.
Wheel Truing Brake Shoe Co. (Wheel Grinders),
The Lenox, Detroit, Mich.

*Brake Shoes (Automobile)

AMERICAN VULCANIZED FIBRE CO.
(Fibre), Wilmington, Del. (See adv. index,
end of book)

DELAWARE HARD FIBRE CO.
(Fibre), Wilmington, Del. Works, Marshall-
town, Del. (See adv. index, end of book)

DIAMOND STATE FIBRE CO. (Fibre),
Elsmere, Del. (See adv. index, end of book)

Brake Slack Adjuster

American Brake Co. (Automatic), 1932 N B'way,
New York
Gould Coupler Co., 345 5th av, New York
Western Railway Equipment Co. ("Acme" Au-
tomatic), Mo. Trust bldg, St. Louis, Mo.

*Brake & Electric Car Heating Apparatus (Magnetic)

WESTINGHOUSE TRACTION BRAKE
Co., Pittsburg, Pa.

Brakes (Air)

ALLIS - CHALMERS CO. (Electric),
Milwaukee, Wis. (See adv. index & branch
offices, end of book)

Magan Air Brake Co., 4th & Porter, Detroit,
Mich.

National Brake & Electric Co. ("National"),
Motor Driven Compressors, Milwaukee,
Wis.

New York Air Brake Co., 66 B'way, New York
Philadelphia Air Brake & Machine Co. ("Morse-
Henley"), Real Estate Trust bldg, Phila.,
Pa.

WESTINGHOUSE AIR BRAKE CO.
The (Automatic), Pittsburg, Pa.

*Brakes (Air, Storage System)

WESTINGHOUSE TRACTION BRAKE
Co., Pittsburg, Pa.

Brakes (Automobile)

Clark, Edward S., 272 Freeport, Boston, Mass.
Columbus Screw & Machine Co., 244 Kaiser,
Columbus, O.

Globe Machine & Stamping Co., 3868 Hamilton
av, Cleveland, O.

Hayden Automatic & Equipment Co. ("Hay-
den"), 26 Cortlandt, New York

Kalisch Air Brake Co., 1315 Chestnut, St.
Louis, Mo.

Long Arm System Co., Cleveland, O.

MERCHANT & EVANS CO. (Inc.), 517
Arch, Philadelphia, Pa. (See adv. index &
branch offices, end of book)

National Brake & Clutch Co., 16 State, Boston,
Mass.

Royal Equipment Co. ("Raymond"), Bridge-
port, Conn.

Watres Mfg. Co. (Power), 1133 B'way, New
York, E. S. ("Sprag"), Reading, Pa. York

Brakes (Car)

(See Brakes, Electric Car)

Brakes (Coaster)

Aurora Automatic Machinery Co. ("Thor"),
Aurora, Ill.

Buffalo Metal Goods Co., 642 Linwood av, Buf-
falo, N. Y.

Corbin Screw Corporation ("Corbin Duplex"),
New Britain, Conn.

Eclipse Machine Co. ("Morrow"), Elmira, N. Y.
Forsyth Mfg. Co. ("Forsyth"), 306 Terrace,
Buffalo, N. Y.

New Departure Mfg. Co. ("New Departure"),
Bristol, Conn.

Pope Mfg. Co., Hartford, Conn.

Standard Co. ("Standard"), Torrington, Conn.
Straight Mfg. Co., 1451 Niagara, Buffalo, N. Y.

Brakes (Dough)

Champion Machinery Co., Joliet, Ill.
Rockwell, L. A., 9 Elizabeth, New York
WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)

Brakes (Electric Car)

ALLIS-CHALMERS CO. ("Christensen"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Billings & Spencer Co. ("Kelsey"), Hartford, Conn.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Columbia Machine Works & Malleable Iron Co. ("Columbia"), Atlantic av & Chestnut, Brooklyn, N. Y.
Keystone Brake Shoe Co., 12 E 23d, New York
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
Magan Air Brake Co., Detroit, Mich.
Massachusetts Steel Casting Co. ("Neal Duplex"), Everett, Mass.
National Brake Co. ("Peacock," "Ackerly," Adjustable), Buffalo, N. Y.
National Brake & Electric Co. ("National Air"), Milwaukee, Wis.
National Car Coupler Co. ("Hinson"), Attica, Ind.
New York Air Brake Co., 165 B'way, New York
Philadelphia Air Brake & Machine Co., Real Estate Trust bldg, Phila., Pa.
Sterling - Meaker Co. ("Sterling Safety," "Giant"), 420 Ogden, Newark, N. J.
Taylor Electric Truck Co., Troy, N. Y.
Traction Equipment Co., 72 Grand, B'klyn, N. Y.
U. S. Metal & Mfg. Co., 165 B'way, New York
WESTINGHOUSE TRACTION BRAKE Co., Pittsburgh, Pa.

***Brakes (Electric Crane)**

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ELECTRIC CONTROLLER & MFG. Co., Cleveland, O. (See adv. index & branch offices, end of book)
WHITING FOUNDRY EQUIPMENT Co. (Direct Current Solenoid), Harvey, Ill. (See adv. index & branch offices, end of book)

***Brakes (Electric Motor)**

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ELECTRIC CONTROLLER & MFG. Co., Cleveland, O. (See adv. index & branch offices, end of book)
WHITING FOUNDRY EQUIPMENT Co. (Direct Current Solenoid), Harvey, Ill. (See adv. index & branch offices, end of book)

Brakes (Flax)

New Winona Mfg. Co., Winona, Minn.

Brakes (Locomotive)

New York Air Brake Co. (Also Tender, Driver, Freight & Passenger Car), 66 B'way, New York, & Fisher bldg, Chicago, Ill.
WESTINGHOUSE AIR BRAKE CO., The, Pittsburgh, Pa.

***Brakes (Magnetic Friction)**

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ELECTRIC CONTROLLER & MFG. Co., Cleveland, O. (See adv. index & branch offices, end of book)

Brakes (Rail)

Miller Supply Co. (Friction for Dropping Railroad Cars Under Coal Chutes, etc.), Huntington, W. Va.

***Brakes (Solenoid)**

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
WHITING FOUNDRY EQUIPMENT Co. (Direct Current), Harvey, Ill. (See adv. index & branch offices, end of book)

Brakes (Vacuum)

New York Air Brake Co. (& Vacuum Automatic), 66 B'way, New York

Branders (Cigar)

American Electrical Heater Co. (Electric), Detroit, Mich.

Branding Irons (Electric)

(See also Burning Brands)
Schneider, Geo. J. & Co., Detroit, Mich.

Brass Altar Rails

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
Heath-Johnson Co. (Inc.), 123 Ontario, Chicago, Ill.

JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Mills, W. J., 639 Kent av, Brooklyn, N. Y.
Murdock-Shaw Co., Boston, Mass.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)
Union Equipment & Bronze Co., 1901 Park av, New York

WINSLOW BROS. COMPANY (Iron, Brass & Bronze), Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Brass Angles, Channels, Etc.

(See Brass & Copper Angles, Channels, Etc.)

Brass Bolts

(See Bolts, Brass & Copper)

Brass Founders

(See Bell Founders; Bell Manufacturers; Castings, Brass; Fire Place Furnishings; Hardware Manufacturers; Machinists & Founders; Plumbers' Brass Goods; Valve Manufacturers)

Brass Founders' Supplies

(See Foundry Facings & Supplies)

Brass Nails

(See Nails, Brass & Copper)

Brass Railings

(See Bank & Office Railings)

Brass Rivets

(See Rivets, Brass & Copper)

Brass Rods

(See Rods, Brass & Copper)

Brass Screws

(See Screws, Brass & Copper)

Brass Sheets

(See Copper & Brass Sheet)

Brass Tubes

(See Tubing, Brass & Copper)

Brass Wire

(See Wire, Brass & Copper)

Brass & Copper Angles, Channels, Etc.

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York
Manhattan Brass Co. (Brass & Bronze), 334 E 28th, New York
MERCHANT & EVANS CO. (Inc.) (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Rome Brass & Copper Co., Rome, N. Y., & 100 William, New York
Waterbury Brass Co., Waterbury, Conn.

Brasses (Car & Engine)

Ajax Metal Co., 48 Richmond, Phila., Pa.
Atlantic Brass Co., 192 B'way, New York
Brady Brass Co., Jersey City, N. J.
Continental Car & Equipment Co., 17 Battery pl., New York
Edna Smelting & Refining Co. (For Steam or Electric), 525 Reading rd, Cincinnati, O., & Monadnock blk, Chicago, Ill.
Gilbert, A. & Sons Brass F'd'y, St. Louis, Mo.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
Long & Stillman, 149 B'way, New York
McCartney, Josiah, Bay City, Mich.
Magnus Metal Co., Buffalo, N. Y.
More-Jones Brass & Metal Co., St. Louis, Mo.
Newell, J. F. & Co., Gardiner, Me.

Brazing Apparatus

(See Blow Pipes & Brazing Apparatus)

Brazing (Cast Iron)

(See Cast Iron Brazing)

Brazing Compound

(See Compounds, Brazing)

Breakers (Casting or Scrap)

Curtis & Mfg. Co. (Compressed Air), St. Louis, Mo.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Breakers (Circuit)

Carpenter Enclosed Resistance Co., 79 E 131st, New York
Condit, S. B., Jr., & Co. ("Eden," "Condit"), Boston, Mass.
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Cutter Electrical & Mfg. Co. ("J-T-E," "Dalite"), 19th & Hamilton, Phila., Pa.
Fort Wayne Electric Works, Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Hartman Circuit Breaker Co. (Automatic Oil Circuit for Cars, etc.), Mansfield, O.
Kelman Electric & Mfg. Co., Los Angeles, Cal., & Yonkers, N. Y.
McCarthy Bros. & Ford, 41 Eagle, Buffalo, N. Y.
Pittsburg Armature Works, Pittsburg, Pa.
Roller-Smith Co. ("S. E."), Bethlehem, Pa.
Sundh Electric Co. ("Sundh"), 115 Cedar, New York
Ward, Leonard Elec. Co., Bronxville, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co. (Alternating & Direct Current), Union Bank bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

***Breakers (Gyratory)**

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

*Breakers (Magnetic Re-Set Circuit)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ELECTRIC CONTROLLER & MFG. CO., Cleveland, O. (See adv. index & branch offices, end of book)

Breakers (Staybolt)

(See also Pneumatic Staybolt Breakers)

Williams, White & Co. ("Lowc," for Boiler Shops), Moline, Ill.

Breakers (Stone)

(See Rock & Ore Crushers)

Brewers' Brass Supplies

Standard Brass & Iron Works, Milwaukee, Wis.

Brewers' & Maltsters' Machinery

(See Machinery, Brewers' & Maisters')

Brick Ashlar

(See Architectural Faience)

Brick Dryers

(See Dryers, Brick)

Brick Handler

Empire Forge & Iron Co. ("Empire"), Buffalo, N. Y.
 Union Specialty Mfg. Co., Arrott Power bldg, Pittsburgh, Pa.

Brick Mfrs. (Acid Proof)

Denny-Renton Clay & Coal Co. (For Chemical Works), Seattle, Wash.
 Lallede-Christy Clay Products Co., St. Louis, Mo.
 Louisville Fire Brick Works, Louisville, Ky.
 Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
 Ostrander Fire Brick Co., Troy, N. Y.

Brick Mfrs. (Cement)

AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)
 Dennis & Schiely, Maumee, O.
 Harper Brick Co., Harrison, N. J.
 Kerr, Sorrell & Co., Green City, Mo.
 Maumee Cement Block Co., Maumee, O.
 Universal Cement Brick & Block Co., Webster av nr 200th, New York
 White Marble Lime Co., Manistique, Mich.

Brick Mfrs. (Chemical)

Remmey, Richard Sons Co. (For Glover Towers), 2637 E Cumberland, Phila., Pa.

Brick Mfrs. (Chrome)

Federal Refractories Co., Cleveland, O.
 Harbison-Walker Refractories Co., Farmers Bank bldg, Pittsburgh, Pa., & 1133 B'way, New York
 Stowe-Fuller Co., Cleveland, O.

*Brick Mfrs. (Clinker)

SAYRE & FISHER CO. (Dutch), 261 B'way, New York. Works, Sayreville, N. J. (See adv. Front Inside Cover)

*Brick Mfrs. (Clinker Paving)

FLEMING & CO. (Adamantine Clinker), 253 B'way, New York. (See adv. index, end of book)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Brick Mfrs. (Common)

See also Brick Mfrs., Clinker.
 Brick Mfrs., Enameled.
 " " Fire Flashed.
 " " Fire.
 " " Furnace Arch & Roof.
 " " Front.
 " " Glazed.
 " " Granite Pressed.
 " " Hollow.
 " " Pompeian.
 " " Porus. (See Fire-Proof Porous Brick & Tile.)
 " " Silica.
 " " Vitified Paving.
 " " White.
 Blocks, Hollow Building.
 Conduits.
 Fire-Proof Hollow Brick & Tile.
 Roofing Tile, Terra Cotta.
 Plumbers' Sanitary Earthenware.
 Sewer Pipe Mfrs.
 Terra Cotta, Architectural.
 Tile, Art, etc.

ALABAMA.

ASHBY—Ashby Brick Co.
 BIRMINGHAM—Ashby Brick Co.
 B'ham Sand, Lime, Brick & Stone Mfg. Co.
 Copeland Brick Co., 44 E Birmingham
 Graves Shale Paving Brick Co.
 Riverside Brick Co.
 BREWTON—Strong, W. H. Brick Co.
 BRICKYARD—Bickerstaff Brick Co.
 CHOCCOLOCCO—Dunn Bros.
 DEMOPOLIS—McGrath Bros.
 ELBA—Perdue, W. B.
 GREENVILLE—Terrell, W. C.
 HUNTSVILLE—Huntsville Brick Co.
 MOBILE—Hale & Savage
 Kentz, Jos.
 MONTGOMERY—Excelsior Brick Co.
 Holt Brick Co.
 Riverside Brick Co.
 NEW DECATUR—North Alabama Brick Co.
 SELMA—Selma Brick & Tile Co.

ARKANSAS.

FORT SMITH—Carbough, J. D.
 HELENA—Straub Pressed Brick Co.
 LITTLE ROCK—Arkansas Brick & Mfg. Co.
 TEXARKANA—Arkansas Brick Co.
 Texarkana Brick Co.

CALIFORNIA.

ALAMEDA—Clark, N. & Sons
 BAKERSFIELD—Bakersfield Sandstone Brick Co.
 KENNET—Holt & Gregg Co.
 LOS ANGELES—Berg & Oxby, Lankershim bldg
 California Ornamental Brick Co., Mason Opera House
 Garvanza Brick Co., 218 S B'way
 Independent Brick Co., Fay bldg
 K. & K. Brick Co., P. E. bldg
 Los Angeles Pressed Brick Co.
 Simons Brick Co., 123 W 3d
 So. California Brick Co., Hellman bldg
 Standard Brick Co., Stimson bldg
 OAKLAND—Carnegie Brick & P. Co., ft of Remillard Brick Co., 659 Clay Madison
 PASADENA—Simons Brick Co.
 REDLANDS—Taylor Bros. Brick Co.
 SAN DIEGO—Hubbard, Robert M.
 SAN FRANCISCO—Bay View Brick Co., 32d av & G S
 California Brick & Clay Mfg. Co., 28 El Dorado
 Carnegie Brick & Pottery Co., 628 Montgomery
 Clark, N. & Sons, 17 Spear
 Patent Brick Co., 331 Berry
 Remillard Brick Co., Berry bet 6th & 7th
 Richmond Brick Co., 161 Sacramento
 San Francisco Brick Co., 2d n Mission
 SAN JOSE—San Jose Brick Co.
 STOCKTON—San Joaquin Brick Co.

COLORADO.

BOULDER—Lee, W. S.
 COLORADO SPRINGS—Brewer, Ben. Brick Co.
 Schlessinger Bros.
 DENVER—Boulder-Shale Brick Association
 Denver Sewer Pipe & Clay Co., Continental bldg
 Denver Shale Brick Co.
 Excelsior Brick Co., S York & E Colorado av
 Fairview Brick Co., Decatur c W 18th av
 Robinson Brick Co., Exchange bldg
 Rowe, E. E. & Co., 1250 Boul F
 Western Brick & Construction Co.
 LA JUNTA—La Junta Brick & Tile Co.
 PUEBLO—Colorado Brick & Tile Co.

CONNECTICUT.

BERLIN—American Brick Co.
 Jacobs Brick Co.
 Merwin, C. P. Brick Co.
 EAST WINDSOR HILL—East Windsor Hill
 ELMWOOD—Phoenix Brick Co. Brick Works
 HARTFORD—Dennis & Petzner, 737 Windsor av
 Dorr, Cephas, New York av
 Kane, Michael, 190 New Pork
 Mills, Eugene D.
 Parkville Electric Brick Co., 270 Prospect
 MIDDLETOWN—Johnson, J. D. av
 Tuttle Brick Co., Newfield, at R. R. Station
 NEW BRITAIN—Holmes, Jno. W.
 New Britain Brick Co.
 Towers, Joseph S.
 NEW HAVEN—Davis, Wm. E. & Co., 693 Orange
 Howard Co., 250 Boulevard
 Montowese Brick Co., 116 Church
 O'Neil, H. Coady
 Stiles, I. L. & Son Brick Co., 335 East
 NORTH HAVEN—Brockett, F. H. Co.
 Stiles, I. L. & Son Brick Co.
 WILSON—Wilson Brick Co.

DELAWARE.

DELMAR—Elliott, W. B.
 LINCOLN—Sackett, Chas. H. & Co.
 NEWPORT—Kiamensi Clay Works
 WHITESVILLE—Harrison, Geo.
 WILMINGTON—Allen, Alvan Brick Co., 915 Market
 Delaware Terra Cotta Co., 819 Shipley
 Oberly, James B., Lancaster & Greenville
 Wilmington Brick Co. avs

DISTRICT OF COLUMBIA.

WASHINGTON—Anacostia Brick Co., Anacostia
 Highland Brick Co., 13th c Ohio av, N W
 Hydraulic Press Brick Co.
 Martin & Bro., 1504 S Capitol
 New Washington Brick Co., 1420 N. Y. av,
 Potomac Brick Co., 1413 G. N W N W
 Rosslyn Brick Co., 1321 F, N W
 Virginia Brick Co., Colorado bldg
 Walker, Wm. T. Brick Co., Corcoran bldg
 Washington Brick & Terra Cotta Co., 3d, c O., S W
 West Bros. Brick Co., 729 15th, N W

FLORIDA.

CALLAHAN—Mickler, Oscar O
 CAMPVILLE—Maultsly, J. A.
 JACKSONVILLE—Jacksonville Brick Co.
 PINE BARREN—McMillan Brick Co.
 SORRENTO—Sorrento Brick & Lumber Co.

GEORGIA.

ALBANY—Albany Brick Co.
 Cruger & Pace
 ATHENS—Georgia Brick Co.
 Oconee Brick Co.
 ATLANTA—Calhoun Brick Co.
 Chattahoochee Brick Co., Fourth Nat'l B'k bldg
 Palmer Brick Co., Fourth Nat'l B'k bldg
 South River Brick Co., 24 Walton
 AUGUST—Dunbar, B. S.
 McCoy Brick & Tile Co.
 Merry Bros.
 Rutherford & Co.
 Standard Brick Co.
 RAINBRIDGE—Patterson, L. F.
 CALHOUN—Calhoun Brick Co.
 COLUMBUS—Berry, Geo. O. & A. F.
 Shepherd Bros.
 ELBERTON—Elberton Brick Co.
 GAINESVILLE—Pfeffer, Mrs. P.
 MACON—Anderson Brick Co.
 Bailey, O. T.
 Jelks, E. N.
 Macon Brick Co.
 MILLEDGEVILLE—Milledgeville Brick Works
 ROME—Morrison Trammell Brick Co.
 Rome Brick Co.
 SAVANNAH—Rothwell, B., 228 Montgomery
 Savannah Brick Works
 UNION POINT—Ogeechee Brick Co.
 WEST POINT—Jones, Lafayette
 McPherson, N. E.

IDAHO.

GRANGEVILLE—Holtz, Valentine & Son
 LEWISTON—Idaho Brick Co.

ILLINOIS.

ABINGDON—Abingdon Paving Brick & Tile Co.
 ALEDO—Aledo Brick & Tile Co.
 AURORA—Solbisburg & Sons
 AVON—Avon Milling & Mfg. Co.
 BARRY—Chilton, C. H.
 BEARDSTOWN—Meyer, H. O.
 BELLEVILLE—Belleville Brick Co.
 Ittner, A. Brick Co.
 Kloess Brick Co.
 Standard Brick Co. (Capacity 12,000,000)
 BELVIDERE—Belvidere Brick Co.
 BENSON—Peterson, Simon
 BETHANY—Fortner, W. D.
 BLOOMINGTON—Bloomington Pressed Brick Co.
 Heafer, Edgar M. Tile Co.
 McGregor, J. H. Brick Co.
 BUDA—Churchill, Horatio
 CAIRO—Ferguson, Thos. & Co.
 Halliday, W. R.
 CAMPUS—Mamer Bros.
 CANTON—Heckard, M. & Sons
 Roiler, Geo. B.
 CARBON CLIFF—Argillo Works (See Rock Island, Ill.)
 CARLINVILLE—Moody, John & Son
 CARLYLE—Holdener, D.
 CASEY—Weaver, Chas.
 CHAMPAIGN—Sheldon Brick Co.
 CHANDLERVILLE—Zorn, Aug.
 CHATSWORTH—Walter, Geo. J.
 CHICAGO—American Brick Co., 4500 S Robey
 Bach Brick Co., 192 W Montrose av
 Bonner & Marshall Co., Chamber of Commerce bldg
 Burke, Alex. S., cor 40th av & W 19th
 Calumet Brick Co., Chamber of Commerce bldg
 Chicago Brick Co., 138 Washn
 Evans, Rothwell H., 112 Clark
 Heilmann, G. J. & Co., Irving Park boul & California av
 Hydraulic Press Brick Co., 138 Wash'n
 Illinois Brick Co., 138 Wash'n
 Kelly, A. W. & Co., 1162 63d
 Kemnitz & Schneider, 1258 Oakdale av
 Kimbell, S. S. Brick Co., 138 Wash'n
 Labahn Brick Co., 92 La Salle
 Lakeview Brick Co., N. S., W Irving Park
 boul west of river
 Murphy & Lorimer Brick Co., Archer & S
 California avs
 National Brick Co., 84 Lasalle
 Sexton, John M. L., W 39th & Leavitt
 COAL VALLEY—Hass, Jno. T. & Son
 COILLINSVILLE—Hydraulic Press Brick Co.
 CULLOM—Ortman, F. A.
 DANVILLE—Danville Brick Co.
 Western Brick Co. (Yearly Capacity 60-
 000,000 Wire Cut & Re-Pressed)
 DECATUR—Decatur Brick Co.
 DELAND—Moody, R. B.
 DELAVAN—Thilbury, W. C.
 DUNDEE—Haeger, D. H. (Est. of)
 EARLVILLE—Earlvile Brick & Tile Mfg. Co.
 EAST PEORIA—Carter, F. R.
 EDWARDSVILLE—Banner Clay Works (Build-
 ing & Sewer)
 Richards Brick Co.
 EL DORADO—West-Gregg Brick Co.
 ELGIN—Elgin Brick & Tile Co.
 EQUALITY—McIntyre, Wm. & Son
 FARMER CITY—Arbogast, D. H. & Son
 FREEPORT—Grant, Thos.
 Trunk, F. G. & Son
 GALESBURG—Purinton Paving Brick Co.
 GILMAN—Wild, James W.
 GRAYVILLE—Wheatcraft, W. G.
 GREENUP—Ward, J. H.
 HAMPSHIRE—Backus & Sholes
 HARVEL—Smith & White (Tile)
 HIGHLAND—Miller, Louis
 HILLSBORO—Hillsboro Brick & Tile Co.
 HUTSONVILLE—Hutsonville Brick & Tile Co.
 ILLIOPOLIS—Baldridge, M. I.
 JACKSONVILLE—Jacksonville Sand, Cement
 & Brick Co.
 JOLIET—Shaw, Josiah E., 2307 E. Cass
 Shaw, Silas, Brick Co.
 KANKAKEE—Kankakee Tile & Brick Co.
 LA SALLE—La Salle Pressed Brick Co.
 (Pressed)
 LITCHFIELD—Chamberlain, Jno. W. & Son
 LITTLE YORK—McCoy & Co.
 LODA—Loda Brick & Tile Works
 LOMBARD—Lombard Brick & Tile Co.
 LOSTANT—McShane, Richard
 McQUEEN—Elgin Brick & Tile Co.
 MACKINAW—Judy, F. D.
 MANCHESTER—Heaton, J. M. (Tile)
 MARTINSVILLE—Snively, L. O.
 MATTOON—Mattoon Tile Co.
 MAZON—Condon, James
 MENDOTA—Harbaugh, C. A.

METCALF—Jones, J. H.
 MILFORD—Marquis, D. M.
 MINONK—Goodwin Bros.
 MOLINE—Abraham, Jacob & Son
 Tri-City Sand Stone Brick Co.
 MOMENCE—Tiffany Enameled Brick Co.
 MONMOUTH—Monmouth Brick & Tile Co.
 MONTICELLO—Lodge, W. F.
 MORRIS—Buck Bros.
 MOUNT OLIVE—Mount Olive Brick & Tile Co.
 MOWEAQUA—Corrington Bros.
 Frazee, Oscar
 NAPERVILLE—Martin & Van Oven (Est. of)
 NORTHAMPTON—Goodwin, Thos.
 OKAWVILLE—Schlechte, Wm.
 OLNEY—Olney Paving Brick & Tile Mfg. Co.
 ONARGA—Barnes, Horace
 OTTAWA—Swift Terra Cotta Brick & Tile Co.
 PANA—McCarty Bros.
 PEORIA—Fox, William, 1011 N Elizabeth
 Giles, Albert E., 305 Frye av
 PERU—Unzicker, Robert
 PETERSBURG—Anderson, Chas. (Tile)
 Salvason Bros.
 PITTSFIELD—Huseman, August
 POLO—French, Geo. (Tile)
 PRINCETON—Hanson Bros.
 Oberschelp, H. G. (Tile)
 Wagner, Jacob
 QUINCY—Abbott, Wm. K.
 Damhorst Bros.
 Gem City Press Brick Co.
 Sanders, B.
 Spliker, Adolph & Sons
 Stockhecker, Herman
 Stroot, John H.
 RAMSEY—McKnight, H. B.
 RAY—Ray Tile Works
 REDDICK—Reddick Brick & Tile Co.
 ROBERTS—Anderson & Kenward
 ROCKFORD—Superior Brick Co.
 ROCK ISLAND—Argillo Works (Fire Brick &
 Drain Tile.) Works, Carbon Cliff, Ill.
 Atkinson, Aloft
 Black Hawk Clay Mfg. Co.
 Graham, John W.
 Paulsen, Hans
 Redecker, B. & H.
 Richmond, Geo. H.
 ROSSVILLE—Redden, W. B. (Tile)
 SHELBYSVILLE—Martz Bros.
 SPRINGFIELD—Bartelme, Peter M.
 Dawson Brick & Tile Co.
 Springfield Paving Brick Co.
 STREATOR—Barr Clay Co.
 Streator Paving Brick Co. (Building, Side-
 walk & Foundation)
 SULLIVAN—Witts & Witts
 TALLULA—Hugenberger, Husmann & Hecker
 TAYLORVILLE—Anderson Bros.
 TEUTOPOLIS—Deyman, George
 THOMASBORO—Peters, F. J. & W. M. (Tile)
 UTICA—Utica Fire Brick Co.
 VANDALIA—Shaw, White & Co. (Brick & Tile)
 VIRGINIA—Paul & Henderson
 WADSWORTH—Cashmore, John
 Winter, I. S. & Sons
 WALNUT HILL—Walnut Hill Press Brick Co.
 WATERLOO—Burkhardt, Jacob
 WOODSON—Kitner, F. H.
 YORKVILLE—Tarbox, A. & E.
 ZENOBIA—Farnam, L. O.

INDIANA.

AKRON—Gast, A. A. (Tile)
 ALBION—Landgraff, Frank
 ANDERSON—Davis Bros. (Drain Tile)
 Indiana Brick Co. (Daily capacity 150,000)
 ARCADIA—Arcadia Brick Works
 ATTICA—Poston, Clarence E.
 BARNARD—Hill, J. O. (Tile)
 BERNE—Gottschalk, A. Z. (Tiles)
 BIPPUS—Bippus Tile Co.
 BOONVILLE—Industrial Brick Works
 Klostermeier, L. & Son
 Kroeger, Fred.
 BRAZIL—Brazil Clay Co.
 Chicago Sewer Pipe Co.
 Excelsior Clay Co.
 Indiana Paving Brick & Block Co.
 McRoy Clay Works
 Sheridan Brick Works
 BROOK—Brook Terra Cotta Tile & Brick Co.
 BROOKVILLE—Fries, Anthony & Sons
 CARBON—Simpson, Benjamin
 CAYUGA—Cayuga Brick & Coal Co.
 CHESTERTON—Anderson, P. E. & Sons
 CLAY CITY—Clay City Brick & Clay Co.
 Kaiser, Geo. G.
 CLINTON—Clinton Paving Brick Co.
 COATESVILLE—Ellis, E. R.
 COLUMBUS—Crump, F. T.

CONNERSVILLE—Fries, A. & Sons
 CRAWFORDSVILLE—Lee, M. J. (Tile)
 CURTISVILLE—Curtisville Tile & Brick Co.
 DECATUR—Krick, Tyndall Co.
 DELPHI—Clauser, W. H. & Sons
 DGERTON—Anspach, J. P. & Son
 ELKHART—Boss, J. C. Brick Co.
 Elkhart Brick Co.
 EVANSVILLE—First Avenue Brick & Tile Co.,
 328 Sycamore
 Helfrich Lumber & Mfg. Co., 615 W Frank-
 lin
 Standard Brick Mfg. Co., 328 Syracuse
 Wedeking, Ernest, Wedeking's Ia
 FORT BRANCH—Polk & Genung
 FORT WAYNE—Fort Wayne Brick & Tile Co.
 Mocllering, W. H. F.
 Moellering's, Wm. Sons, 53 Murray
 FRANCESVILLE—Francesville Clay Product
 FRANCISCO—Stormont & Bro. (Tile)
 FREELANDVILLE—Hummerich, B. (Tile)
 Meyer, Chas.
 FULTON—Swick, George
 GREENFIELD—Greenfield Brick Co.
 GREENSBURG—Isgrigg, W. H. & Son
 HARTFORD CITY—Meridith & Croninger,
 HOAGLAND—Small, M. F. (Drain Tile)
 HOBART—Kulage Brick Works
 HOMER—Arbuckle & Son
 HOPE—Miller, Rominger & Co. (Tile)
 HUNTINGBURG—Bockting, Sebastian
 Huntingburg Dry Pressed Brick Co.
 INDIANAPOLIS—Adams Brick Co., 230 E Ohio
 Bradley Brick Co., 230 E Ohio
 Bremer, Fred'k, Sherman Drive
 Eilering, Herman, Bethel av nr Zwingley
 Indiana Paving Brick & Block Co., Traction
 Terminal bldg
 Indianapolis Composite Brick Co., 230 E
 Ohio
 Luedemann, Herman H., Southeastern av,
 nr Sherman Drive
 Magennis, Jas., Sherman Drive
 Marlon Brick Works, 230 E Ohio
 Sheridan Brick Works, 230 E Ohio
 Western Brick Co., 230 E Ohio
 JEFFERSONVILLE—Jeffersonville Brick Co.
 LAFAYETTE—May, Jacob & Sons
 LAWRENCEBURG—Mitchell Brick Co.
 LEO—Conrad, Jno.
 LINTON—Linton Brick Mfg. Co.
 MADISON—Ross & Kimmell
 MARION—Marion Brick Works
 MARTINSVILLE—Adams Brick Co.
 Clark, Jno. B.
 MICHIGAN CITY—Ohlemacher Brick Co.
 Roeske Bros.
 MILLGROVE—Inman Tile Co. (Tile)
 MONROE—Lewellen, Z. O. (Tile)
 MONTEZUMA—Marion Brick Works
 MONTMORENCI—Kneale, Henry (Tile)
 MOORESVILLE—Bradley Brick Co.
 MOUNT VERNON—Industrial Brick Co.
 MUNCIE—Mock, J. D. Brick Co.
 NEW ALBANY—Goetz Pressed Brick Co.
 Hoosier Brick Co.
 NEWCASTLE—Newcastle Brick & Tile Co.
 NEW RICHMOND—Lee, H. K. (Drain Tile)
 NORTH VERNON—North Vernon Lumber Co.
 OAKVILLE—Holsinger, J. T.
 OSSIAN—Beaty & Doan Co.
 PERU—Clifton, John & Son
 PETERSBURG—Petersburg Brick Co.
 PONETO—Cook, J. W. (Tile)
 PORTER—Hydraulic Press Brick Co.
 PREBLE—Werling, Albert (Tile)
 PRINCETON—Reed, Wm. N.
 Watt & Mitchell
 RICHMOND—Richmond Brick Co.
 ROACHDALE—Ricc, James A. & Son
 ST. MEINRAD—St. Meinrad Brick & Tile Co.
 SEYMOUR—Kasting, W. L. & Co.
 SOUTH BEND—South Bend Brick Co.
 TERRE HAUTE—Bennett, Jacob & Sons
 Bergman, Wilbo, 1300 N 1st
 Terra Haute Pressed Brick Co., 1500 N 1st
 Terra Haute Vitified Brick Co. (Building
 & Sewer)
 VALPARAISO—Covert & Young (Tiles)
 Lembke, Chas., & Co.
 VEEDERSBURG—Wabash Clay Co.
 VINCENNES—Kixmiller, S., 63 Fairview av
 Puellage, J. W.
 WASHINGTON—Kretz, Joseph
 WINDFALL—Windfall Mfg. Co.
 WOODBURN—Woodburn Tile & Brick Co.

IOWA.

ADEL—Harris, S. J. & Co.
 AFTON—Spencer, D. J.
 ANAMOSA—Smith, B. F. (Est. of)
 AUDUBON—Tramp & Tramp (Brick & Tile)
 BARNES CITY—Wilson, Ollie & Co.

BOONE—Boone Brick Tile & Paving Co.
 BRIDGEWATER—Cass, C. H.
 BURLINGTON—Burlington Brick & Tile Co.
 Granite Brick Co.
 CAMBRIDGE—Bouham & Son
 CEDAR RAPIDS—Stokey, D. W. (Tile)
 CENTERVILLE—Centerville Brick & Material
 CLARINDA—Crabill, J. M. Co.
 COLUMBUS JUNCTION—Oakes, Geo. W.
 COUNCIL BLUFFS—Norgaard, C. O.
 CRESCO—Marshall, C. A.
 CRESTON—Tramp Bros.
 DAVENPORT—Bettendorf Brick Co.
 Daveuport Brick & Tile Co.
 Otten & Pohlmann
 DENISON—Green & Ward
 DES MOINES—Des Moines Brick & Tile Co.,
 Des Moines Clay Mfg. Co. 4th & Hayes
 Flint Brick Co., Equitable bldg
 Frost Pressed Brick Co., Good blk
 Goodwin Tile & Brick Co., Mitchell av nr
 18th, S D M
 Iowa Brick Mfg. Co., I. L. & T. bldg
 Iowa Pipe & Tile Co., 4th & Hayes
 Maine, James & Sons Co.
 Shackelford Brick Co., nr Bloomfield Mine
 Williams Bros., N 6th av & Royer, H P
 DE SOTO—De Soto Brick & Tile Works
 DIAGONAL—Grant, G. D.
 DOWS—Wilson, J. A.
 DUBUQUE—Heim, Mrs. Agatha
 DYSART—Dysart Brick & Tile Co.
 ELDORA—Eldora Pipe & Tile Co.
 ESTHERVILLE—Estherville Brick & Tile Co.
 FAIRFIELD—Fairfield Brick & Tile Co.
 Ranev Bros.
 FONDA—Straight Bros.
 FORT DODGE—Bradshaw, H. R. & Co.
 Fort Dodge Brick & Tile Works
 FREMONT—Dawson, J. & Co.
 GARRISON—Garrison Brick & Tile Co.
 GLADENBROOK—Gethmann Brick Co.
 Stauffer, Geo. M.
 GOLDFIELD—Conger & Whyte
 GRAND JUNCTION—Goodwin Tile & Brick Co.
 GRUNDY CENTER—Grundy Centre Brick &
 Tile Co.
 HAMBURG—Johnson, C. S.
 HEDRICK—Heidenreich, F. W.
 IOWA CITY—Oaks Bros.
 KALO—Central Brick & Tile Co.
 Kalo Brick & Tile Co.
 KELLOGG—Kellogg Brick & Tile Works
 KEOKUK—Gate City Brick Co.
 KEOTA—Leacox, Sam'l K.
 LAKE CITY—Lake City Clay Works
 LEHIGH—Campbell, James
 Lehigh Clay Products Co.
 LYNNVILLE—Newby & Macy
 MACEDONIA—Dye, W. & Co.
 MARSHALLTOWN—Finkle, I. S.
 MARTINSBURG—Hall, James (Tile)
 MASON CITY—American Brick & Tile Co.
 Mason City Brick & Tile Co.
 Mason City Clay Works
 MAXWELL—McHose, Chas. E.
 MEDIA POLIS—Johnson, A. H.
 MUSCATINE—Muscatine Pressed Brick Co.
 Nyenhuis Bros.
 NEVADA—McHose, S. M.
 NEWTON—Henning, Wm.
 NORTH ENGLISH—Smith, E. J. & Sons
 OSCEOLA—Seigle, John Geo.
 OSKALOOSA—Oskaloosa Paving Brick Co.
 OTTUMWA—Ostdiek, H. B.
 Ottumwa Brick & Construction Co.
 POLK—Bullington, Cyrus
 REDFIELD—Redfield Brick & Tile Works
 RED OAK—Cook, R. E.
 ROCK VALLEY—Knehne, A. H.
 SERGEANT BLUFF—Holman, C. J. & Bro.
 SHEFFIELD—Sheffield Brick & Tile Co.
 SHELLSBURG—Shannon, E.
 SIDNEY—Carter, Samuel O.
 SIOUX CITY—Lower Brick Co.
 Sioux City Brick & Tile Works
 Sioux Paving Brick Co.
 STORM LAKE—Russell, J. M. (Tile)
 STUART—Piner, John
 TAMA—Bentley, C. B. & Sons (Brick & Tile)
 TOLEDO—Toledo Brick & Tile Co.
 VAN METER—Piatt Pressed & Fire Brick Co.
 VILLISCA—Villisca Brick & Tile Co.
 WASHINGTON—Shields & Son
 WATERLOO—Waterloo Granite Brick Co.
 WEBSTER CITY—Webster City Brick & Tile
 Co.
 WELLMAN—Adams, Ira C.
 WHAT CHEER—Nicholson, G. G.
 WINFIELD—Pierce, L. B.

KANSAS.

ATCHISON—Atchison Paving Brick Co.
 BURLINGTON—Batdorf & Co. (Tile & Brick)
 CANEY—Canev Brick Co.
 CHANUTE—Chanute Brick & Tile Co.
 Chaunte Cement & Clay Product Co.
 Hydraulic Brick Co.
 CHERRYVALE—Southwestern Brick Co.
 CLAY CENTER—Clay Center Brick Co.
 COFFEYVILLE—Coffeyville Vitrified Brick &
 Tile Co.
 COLUMBUS—Columbus Brick & Tile Co.
 EUREKA—Murphy, James
 FORT SCOTT—Fort Scott Brick Co.
 FREDONIA—Fredonia Brick Co.
 HUMBOLDT—Humboldt Brick Mfg. Co.
 INDEPENDENCE—Coffeyville Vitrified Brick
 & Tile Co.
 IOLA—Iola Brick Co.
 Star Brick Co.
 Union Brick Co.
 KANSAS CITY—Kansas City Hydraulic Press
 Brick Co.
 LAWRENCE—Lawrence Vitrified Brick & Tile
 Co.
 LEAVENWORTH—Pittsburg Vitrified Paving
 & Building Brick Co.
 LINDSBORG—Swanson, A. J.
 NEODESHA—Kansas Buff Brick & Mfg. Co.
 Verdigris Valley Vitrified Brick & Tile Co.
 OTTAWA—Ottawa Brick & Tile Co.
 PERU—Peru Brick Co.
 PITTSBURG—Pittsburg Vitrified Paving &
 Building Brick Co.
 SALINA—Salina Vitrified Brick Co.
 SYCAMORE—Pittsburg Vitrified Paving &
 Building Brick Co.
 TOPEKA—Capital City Vitrified Brick & Pav-
 ing Co.
 WICHITA—Wichita Hydraulic Stone & Brick
 Co.

KENTUCKY.

ASHLAND—Ashland Fire Brick Co.
 Gates Brick Co.
 O'Kelly Brick Co.
 BARBOURVILLE—Barbourville Brick & Tile
 Co.
 BARDWELL—Bardwell Brick & Tile Co.
 BOWLING GREEN—Knight & Gilbert
 CARROLLTON—Carrollton Brick Co.
 CLINTON—Harpole, John A.
 COVINGTON—Busse Brick Co., 17th & Madison
 Co-operative (The) Mfg. & Home Co. av
 Meier, A. & Co., ft of Wallace
 DANVILLE—Dillehay Brick Co.
 FULTON—Bransford, G. H. & Son
 HARTFORD—Bean Bros.
 HENDERSON—Kieymeyer-Klute Brick & Tile
 Works
 HOPKINSVILLE—Dalton Bros.
 LEBANON—Goodin, R. L.
 LEXINGTON—Fayette Brick & Supply Co.
 Lexington Brick Co.
 LOUISVILLE—Hydraulic Brick Co., 2301 12th
 Louisville Brick Co., 508 W Jeff
 McCollum, J. P., Knapp, near Preston
 Southern Brick & Tile Co., 618 Park av
 MADISONVILLE—Hall, W. L.
 MAYFIELD—McDonald Bros.
 MAYSVILLE—Maysville Brick Co.
 NEW HAVEN—Nelson Brick & Tile Co.
 NEWPORT—Newport Brick, Coal & Supply
 Newport Pressed Brick & Stone Co. Co.
 OWENSBORO—Owensboro Brick & Sewer Pipe
 Co.
 PADUCAH—Katterjohn Brick Co. Co.
 PRINCETON—Princeton Brick Co.

LOUISIANA.

ALEXANDRIA—Adams, C. N.
 BATON ROUGE—Baton Rouge Brickyard
 BREAUX BRIDGE—BreauX Bridge Brick &
 Milling Co.
 CLINTON—Clinton Brick & Mercantile Co.
 DELHI—Delhi Brick Co.
 DONALDSONVILLE—Cire & Esnault
 FRANKLIN—Bodin, Eugene
 Wilson & Mulholland
 HAMMOND—Hammoud Brick Co.
 INDEPENDENCE—Campbell, S. J.
 JENNINGS—Jennings Brick Co.
 KENTWOOD—Kent. Amos Lumber & Brick Co.
 LABADIEVILLE—Achee, Elphez
 MARKSVILLE—Neck Bros. Co.
 MONROE—Monroe Brick Co.
 NEW ORLEANS—Mutual Brick & Supply Co.,
 Hennen hldg
 Pelican Pressed Brick Co., 334 Carondelet
 Ruppel, Adam, 5340 Tchoupitoulas
 Salmen Brick & Lumber Co., 1401 Julia
 NEW ROADS—New Roads Brickyard
 PEARL RIVER—St. Joe Brick Works
 PLAQUEMINE—Plaquemine Brickyard
 RUSTON—Randolph, J. R.

SHREVEPORT—Oliff Brick Co., Ltd.
 Oliff-McCormick Brick Co., Ltd.
 SLIDELL—Salmen Brick & Lumber Co.
 TANGIPAHOA—Oakhill Brick Co.
 THIBODAUX—Southern Investment Co.

MAINE.

BANGOR—Bangor Brick Co.
 BREWER—Brooks Brick Co.
 BRUNSWICK—Hacker, C. E.
 ELIOT—Clark, Samuel (Est. of)
 King, Joseph
 Raitt, Chas. A.
 Rowe, Aivin L.
 Tandreault, Joseph
 LEWISTON—Libby, Horace, 544 Main
 Pettingill, Geo. S., 535 Main
 LISBON FALLS—Desjardins, Louis & Co.
 Goddard, T. T.
 LIVERMORE FALLS—Gastonquay, Joseph &
 Frank
 MECHANIC FALLS—Mechanic Falls Brick Co.
 ORLAND—Gross, Fred. B.
 Hutchins, A. W. & A. B.
 PENOBSCOT—Leach, Ellery
 Leach, Otis
 PORTLAND—Densmore, Samuel B.
 Hamblet, Melvin
 Lucas, Wm.
 SACO—Saco Brick Co.
 SKOWHEGAN—Purinton, Horace & Co.
 TOPSHAM—Flagg, D. H.
 WATERVILLE—Procter & Bowle Co.
 Purinton, H. Co.

MARYLAND.

BALTIMORE—Baltimore Brick Co., Maryland
 Trust bldg
 Baltimore Vitrified Clay Co., Abell hldg
 Burns & Russell Co., 1104 American bldg
 Champion Brick Co., 206 Courtland
 Hydraulic Press Brick Co., Hoffman bldg
 BUCKEYE TOWN—Thomas, C. F. & Son
 Brick Co.
 CAMBRIDGE—Leonard, J. C.
 CRISFIELD—Collins, George M.
 CUMBERLAND—Queen City Brick & Tile Co.
 FREDERICK—Frederick Brick Works
 FROSTBURG—Savage Mountain Firebrick Co.
 GREENSBORO—Bellbrough, T. & Bro.
 HAGERSTOWN—Henson Bros.
 Pryor, James E. S.
 NORTH EAST—Greenhill Fire Brick Co.
 United Firebrick Co. (Fire Clay Products).
 POCOMOKE CITY—McMichael, Hugh
 RIDGELY—Stayer, D. S. & Sons
 ROBERTS—Smith, R. J.
 ST. MICHAELS—Hope, Clifton.
 SALISBURY—Peninsular Brick Co.
 Sallshury Brick Co.
 SNOW HILL—Lewis, W. S. & Son
 WHITEFORD—Cambria Brick Co.
 WILLIAMSPORT—Conocheague Brick & Earth-
 enware Co.

MASSACHUSETTS.

BOSTON—Boston Brick Co., 166 Devonshire
 Carter, Thomas W., 30 Kilby
 Cook, E. L., 166 Devonshire
 Day, E. F. & Co., 166 Devonshire
 Eastern Terra Cotta Brick & Tile Co., Old
 South bldg
 FISKE & COMPANY (Inc.) 25
 Arch. (See adv. index, end of book)
 New England Brick Co., 178 Devonshire
 Parry Brick Co., 166 Devonshire
 Splers-Fish Brick Co., 79 Milk
 Thomas Bros., 46 Cornhill. Works, Turner's
 Falls, Mass.
 Washburn, D. & Sons, 166 Devonshire.
 Works, Everett, Mass.
 BRIDGEWATER—Bassett, Josiah G.
 Cook, Ernest L., opp Conant, nr R. R.
 EASTHAMPTON—Coyle, Bartley & Son
 EVERETT—Washburn, D. & Sons
 GREENFIELD—Dyer, C. O.
 HOLYOKE—Holyoke Brick Co., 95 High
 Lynch Bros. Brick Co., 206 High
 Prew, Jno. J.
 IPSWICH—Brown, C. E. & Son
 Brown, J. A.
 LENOX—Mahanna, William
 LEONINS/TER—Osborne, William L.
 LYNN—Blakely, Geo. C., 31 Holyoke
 Graham, F. J.
 MONTAGUE—Mass. Brick Co.
 MONTAGUE CITY—Burnham, A. O. & F. G.
 NORTH ADAMS—North Adams Brick Co.
 NORTHAMPTON—Bailey, W. A.
 Matthews, Henry

OTTER RIVER—Leathe, Chas. H.
 PALMER—Marcy & Gardner
 REVERE—Edmester, Elijah B.
 SPRINGFIELD—Curtis, D. J., 128 Everett
 Hampden Brick Works, 283 Carew
 Springfield Brick Co., 310 Main
 Standard Brick Co., 310 Main
 TAUNTON—Williams Brick Co., Williams et
 WEST BARNSTABLE—West Barnstable Brick
 WESTFIELD—Westfield Brick Co.
 WILLIAMSETT—Phillips, E. K.
 WORCESTER—Boucher, Jos. 180 Plantation

MICHIGAN.

ASHLEY—Fuller, A. E. (Brick & Tile)
 AZALIA—Meyers Bros.
 BANGOR—Stewart, James
 BIRMINGHAM—Birmingham Brick & Tile Co.
 CADILLAC—Wilcox Bros.
 CASS CITY—Hall, Charles
 CLIO—Oliff, Thos.
 DAVISON—Uptegraff Bros. & Co. (Also Tile)
 DEERFIELD—Atkin, Wm. T., Jr.
 DETROIT—Clippert, Geo. H. & Bro. Brick
 Co., 1960 Michigan av
 Cooper A. & W., 1316 Gratiot
 Daniel, Jacob & Bro. Brick Co. 1955 Michi-
 gan av

Downey, Michael, 1977 Michigan av
 Haggerty, John S. Hammond bldg
 Holmes, F. B. & Co., Hammond bldg
 Larkins Brick Co., Whitney bldg
 Lonyo Brick Co., N W c Michigan av
 Lonyo Bros., N E c Michigan av & Lonyo rd
 McDonald, J. C. & Son, Peninsular Bank
 bldg
 Michigan Pressed Brick Co., Lawton av &
 M C R R
 Porath, Ferdinand, Michigan av & P M R R
 Schneider Brick Co., 605 Dix av
 Springwells Brick Co., Hammond bldg
 Wolf, F. H. Brick Co., 1467 Central av
 Wolf & Dei, N E c Central av
 FLINT—Flint Sandstone Brick Co.
 Zimmerman, John C.
 GRAND BLANC—Grand Blanc Brick & Tile Co.
 GRAND RAPIDS—Battjes Fuel & Building
 Material Co., 1001 S Division
 Grand Rapids Consol. Brick & Tiling Co.,
 c Innes av & N Fuller
 Valley City Brick Co., S E c N Fuller

HOLTON—Holton Brick Co.
 IONIA—Vander Heyden, Fred H.
 JACKSON—Anderson, L. S.
 Michigan Southern Brick & Tile Co.
 LANSING—Clippert, Spaulding & Co.
 LAPEER—White, Robert A.
 MANISTEE—Manistee Brick Co.
 MAYBEE—Linenfelter, F. C.
 MENOMINEE—Menominee Brick Co.
 MIDLAND—Midland Brick & Tile Co.
 MINDEN CITY—Jones, Albert H.
 MOUNT CLEMENS—Mount Clemens Brick &
 Tile Co.
 MUSKEGON—Holton Brick Co.
 NEW BALTIMORE—Streit, Andrew
 OWOSSO—Friesseke, J. H.
 PONTIAC—Osmun, Wm. H., Jr.
 REDFORD—Burgess, H. P.
 SAGINAW—Saginaw Paving Brick Co.
 Saginaw Sandstone Brick Co.
 ST. CLAIR—Belknap & Phillips
 ST. JOHNS—Pulley, C. F.
 ST. LOUIS—Smith, W. H. H. & Son
 SARANAC—Brown, Albert
 SEBEWAING—Reinhold, Ernst
 SPARTA—Sparta Brick & Tiling Co.
 TRAVERSE CITY—Markham, J. W.
 VULCAN—Vulcan Brick Works
 WILLIAMS—Shields, Patrick
 ZEELAND—Zeeland Brick Co.

MINNESOTA.

AKELY—Moore Bros.
 ALBERT LEA—Albert Lea Brick & Tile Co.
 BLAKELEY—Blakeley Brick & Terra Cotta Co.
 BRICKTON—Farnham Brick Co.
 Morton, R. P.
 Princeton Brick Co.
 Woodcock & Sellhorn
 BYRON—Kendall, J. B.
 CHASKA—Greiner & Corning
 Klein, C. H. Brick Co.
 Riedele & Casper
 COKATO—Cokato Brick, Stone & Sidewalk Co.
 CROOKSTON—Crookston Brick & Tile Co.
 DAYTON—Vasser, Joseph
 DULUTH—Enterprise Brick Co.
 FERTILE—Fertile Brick & Tile Co.
 HUTCHINSON—Madsen, M. C.
 JACKSON—Jackson Tile & Brick Co.
 LITTLE FALLS—Duclos, O.

MANKATO—Fowler & Pay
 Panenberg, F. G. & Co.
 Wheeler & Bennett
 MINNEAPOLIS—Anderson, M. Brick Co., Se-
 curity Bank bldg
 Johnson, Frank A., 5008 N Lyndale av
 Martin Brick Co., 613 Hennepin av
 Minneapolis Paving & Cement Brick Co.,
 New York Life bldg
 Wisconsin Red Pressed Brick Co., 214 Lum-
 ber Ex.
 MORTON—Morton Brick & Tile Co.
 NEW ULM—Aufderheide, Fred.
 PERHAM—Haut, Gustave
 RED WING—Red Wing Brick Co.
 ST. PAUL—Greiner & Corning
 St. Paul Brick Co., ft of Warsaw & Stew-
 art av
 Twin City Brick Co., Manhattan bldg
 SHAKOPEE—Schroeder Brick & Lime Mfg. Co.
 SPRINGFIELD—Ochs, A. C.
 STAPLES—Goulet, F. X.
 WARREN—Lundgren, August
 WINNEBAGO—Winnebago City Brick & Tile Co.
 WINONA—Biesanz, Philip
 Voelker & Groff
 WRENTHALL—Enterprise Brick Co.
 Habegger, Fred.
 Wrenshall Brick Co.

MISSISSIPPI.

BALDWIN—Baldwin Brick & Tile Co.
 BOONEVILLE—Booneville Brick & Tile Co.
 CLARKSDALE—Reinhart, A. & Son
 COLUMBUS—Columbus Brick Co.
 HATTIESBURG—Crymes, T. P.
 Riverside Brick & Mfg. Co.
 HOLLY SPRINGS—Holly Springs Brick Co.
 Holly Springs Stoneware & Fire Brick Co.
 JACKSON—Bullard Brick Co.
 Taylor, W. B.
 KOSCIUSKO—Storer & Miller
 LAUREL—Laurel Brick & Tile Co.
 MOUNT OLIVE—Mount Olive Brick Co.
 NATCHEZ—Concord Brick Co.
 Natchez Brick & Mfg. Co.
 OSYKA—Neff & Owen
 OXFORD—Oxford Brick & Tile Co.
 PORT GIBSON—Port Gibson Brick Mfg. Co.
 VICKSBURG—Beck, Jno. W.
 WEST POINT—West Point Brick & Mfg. Co.
 YAZOO CITY—Montgomery Land Co.

MISSOURI.

ALMA—Neimann, G.
 BLOOMFIELD—Henzle, Albert
 BOONVILLE—Boonville Brick Co.
 BRAYMER—McCubbin, Wm.
 BROWNING—Peters, George F.
 BRUNSWICK—Brunswick Brick & Tile Mfg. Co.
 CAMPBELL—Moore, W. E.
 CAPE GIRARDEAU—Daues, A. W. & Bro.
 CARTHAGE—Wheeler, I. C.
 CONCORDIA—Bosselman, Hy.
 CREIGHTON—Creighton Clay Co.
 DE SOTO—Herman, Otto
 FREDERICKTOWN—Berryman, Z. T.
 FULTON—Fulton Fire Brick Co.
 GLASGOW—Burdle Bros.
 HERMANN—Vallet, Fritz
 HIGGINSVILLE—Canterbury, Frank
 INDEPENDENCE—Independence Shale Brick
 Co.

JACKSON—Kasten & Schmuke Pressed Brick
 Co.
 JEFFERSON CITY—Pohl, B. H.
 Co.
 KANSAS CITY—Dickey, W. S.
 Flanagan Bros. Mfg. Co., Lydia c 2d
 Hydraulic Press Brick Co., Gumhel bldg
 Kansas City Gray Brick Co., Perry bldg
 Kansas City Paving Brick & Tile Co., K
 & P bldg
 Lyle Rock Co., 2d & Highland av
 Pittsburg Vitriified Paving & Building Brick
 Co., Postal Teleg. bldg

KIRKSVILLE—Ivie, J. M.
 KNOXSTON—Boyd, G. M. & Co.
 LEXINGTON—Lexington Triumph Pressed
 Brick Co.
 MEMPHIS—Myers, Geo. T. & Co. Brick Co.
 MILAN—Grear, H. & Sons
 MOBERLY—Moberly Paving Brick Co.
 NEVADA—Daly, J. A.
 PERRYVILLE—Popp, John C.
 ST. CHARLES—St. Charles Brick Co.
 ST. JOSEPH—Phoenix Brick & Cons. Co., King
 Hill av
 St. Joseph Pressed Brick Co., 19th & Gar-
 field av
 ST. LOUIS—Brockschmitt, Edward, 6529 Man-
 chester av
 Calhoun Brick & Clay Co., 202 N 9th
 College Hill Press Brick Works, 1400 Col-
 lege av

Consumers' Brick & Quarry Co., Southern
 City Limits nr B'way
 Continental Brick Co., 915 Olive
 Enterprise Brick Works Co., 915 Olive
 Evens & Howard Firebrick Co., 920 Mar-
 ket
 Hydraulic Press Brick Co., 705 Olive
 Ittner, Anthony Brick Co., Odd Fellows
 bldg
 McEwing & Thomas, 202 N 9th
 Missouri Fire Brick Co., Continental bldg
 Missouri Press Brick & Improvement Co.,
 Marine av c Osage
 Progress Press Brick & Machine Co., 3207
 King's Highway
 St. Louis Clay Burning Co., Union houl &
 De Giverville av
 St. Louis Press Brick Co., Cass av, & Col-
 lins
 Schweer, H. H. Brick Co., 4300 S B'way
 Winkle Terra Cotta Co., Century hldg
 WINFIELD—Magruder, B. E. (Tile)

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
 BOZEMAN—Brown, J. N.
 MISSOULA—Missoula Brick & Tile Co.

NEBRASKA.

AURORA—Wood Bros.
 BEEMER—Raasch, J. C. & Son
 DAVID CITY—Bushell, W. H.
 DODGE—Brodhun & Mumeday
 GRAND ISLAND—Schmidt, Louis
 HASTINGS—Hastings Pressed Brick Co.
 Polenske, Shellack & Co.
 Western Brick & Supply Co.
 HOOPER—Builders' Brick Mfg. Co.
 KEARNEY—Hibberd Brick Co.
 LOUP CITY—Ohlsen Bros.
 MADISON—Kaul, Carl F.
 NEBRASKA CITY—Nebraska City Brick Co.
 NELIGH—Brenton, T. H.
 NELSON—Storer, M. S.
 NORFOLK—Norfolk Brick Works
 OMAHA—Corneer Bros. Co.
 Hydraulic Press Brick Co.
 Omaha Brick Co.
 SCRIBNER—Scribner Brick Mfg. Co.
 SOUTH OMAHA—Krittenbrink, J. H.
 STANTON—Strahle, Carl
 STROMSBURG—Bostrom, I.
 TABLE ROCK—Table Rock, Clay Co.
 WAHOO—Schmidt, Marcus
 WAYNE—Lewis, Jno., Jr.
 Sherhahn, J. F.
 YORK—York Brick & Tile Co.

NEVADA.

RENO—Renq Press Brick Co.

NEW HAMPSHIRE.

CONCORD—Holt, Samuel, Turnpike nr Allistor
 DOVER—Gage, Elbridge G.
 EPPING—Proulx, Joseph
 EXETER—Dunn, H. F.
 GONIC—Blakely, Geo. C.
 Boston Brick Co.
 Lenoix, Alphonse
 LANCASTER—Lancaster Brick Co.
 LEBANON—Densmore Brick Co.
 MANCHESTER—Manchester Real Estate &
 Mfg. Co.

NEW JERSEY.

ASBURY PARK—Drummond Bros.
 BELLE PLAINE—Greenlee, Richard
 BORDENTOWN—Bordentown Brick Co.
 CAMDEN—Hateh, Hugh
 Reeve, Augustus
 CLIFFWOOD—Cliffwood Brick Co.
 Lenox Brick Co.
 COLLINGSWOOD—Dobbs, Jas. C. (Tile)
 EGG HARBOR CITY—Egg Harbor Brick Mfg.
 Co.
 FARMINGDALE—Lippincott, Edwin.
 HACKENSACK—Gardner, M. B. & F. B.
 Gillies, J. W.
 Walsh, Chas E.
 HIGHTSTOWN—Reed, B. H. & Bro.
 HOMESTEAD—Homestead Brickyard
 KINKORA—Harper Brick Co.
 LITTLE FALLS—Singack Brick Co.
 LITTLE FERRY—Mehrhoff Brick Co.
 Mehrhoff, N. & Co.
 Treviranus & Gardner
 MAPLE SHADE—Reeve, Augustus
 Sauselein, Theo.
 MATAWAN—Close, C. E. Brick Co.
 Raritan Brick Co.
 MAURER—MAURER, HENRY & SON.
 (See adv. Inside Front Cover)
 MAYS LANDING—Atlantic Brick Mfg. Co.

MORRISTOWN—Hanover Brick Co.
MOUNT HOLLY—Dubell, Firman
MOUNTAIN VIEW—Oschwald & Ulrich
NEWARK—Houghtaling & Witpenn, 122 Market
Sayre & Fisher Co., ft of Centre
Standard Brick Co., 502 Broad
NEW BRUNSWICK—Pettit & Co.
NEWTON—Losee, F. E.
ROSENHAYN—Rosenhayn Face Brick Co.
SAYREVILLE—Furman, Edward Co.

SAYRE & FISHER CO. (Hard Building). (See adv. Inside Front Cover)
SOUTH AMBOY—Furman, A. H.
SOUTH RIVER—National Pyrogranite Co.,
Pettit & Co.
Pettit & Cook Co.
Yates Bros.

TRENTON—Applegate & Co., Pennington av
Donahoe & Nolan, Kirkbride av
Fell & Roberts, 501 Calhoun
Mercer Fire Brick Co.
Trenton Fire Brick Co.

VINELAND—Hobart, J. A.
WHIPPANY—Hanover Brick Co.
WOODBRIDGE—Valentine, M. D. & Bro. Co.
YORKTOWN—Haines, David F.

NEW MEXICO.

ALBUQUERQUE—Albuquerque Pressed Brick
Ruby, Wm. & Tile Co.

NEW YORK.

ALBANY—Hunter, Alfred & Son, 54 Van Woert
Smith, Edw. J., 1st av
ARLINGTON—Flagler & Allen
Haight, Wm. H. (Est. of)
ATHENS—Rider, Wm. W., Jr.
ATTICA—Attica Brick & Tile Co.
BINGHAMTON—Wells & Brigham, 118 Wash'n
BROCKWAY—Brockway Brick Co.
BUFFALO—Bender, Henry, 40 Jones
Brush Bros., Bailey & Erle R. R.
Buffalo Clay Brick Co.
Dietschler, John
Ellicott Brick Co., 918 Ellicott sq.
Lancaster Brick & Tile Co., Builders' Ex
Lyth, A. & Sons, Builders' Exch (Tile)
Lyth Tile Co., 48 W Eagle (Tile)
Schmidt, Geo. W., 699 Bailey av
CANANDAIGUA—Hollis, A. M. & Co. (Tile)
New York Press Brick Co.
CARTHAGE—Wrape & Peck
CATSKILL—Golden, Percival
Washburn, G. W. & Co.
COEYMANS—Sutton & Suderly, Brick Co.
Ziegler & Ziegler
COHOES—Cary Brick Co.
Murray & Riberdy Co.
Scanlon Brick Co.

CORNING—Brick Terra Cotta & Tile Co.
CORNWALL ON THE HUDSON—Hedges Brick
CRESCENT—Newton, A. C. Co.

DUNKIRK—Hilton, Walter E.
DUTCHESS JUNCTION—Aldridge Brick Co.
Anchor Brick Co.
Brockway Bros. Co.
Budd, W. D. Co.
Hammond & Freeman

EAST KINGSTON—Brigham Bros.
Hendricks Brick Co.
Smith, T. H. & A. H.
Staples Brick Co.
Washburn, U. F. & J. T.

ELMIRA—Elmira Shale Brick Co.
FARMINGDALE—Queen's Brick Mfg. Co.
FAR ROCKAWAY—(See New York City, Bor-
ough of Queens)

FISHERS ISLAND—Long Island & Fishers Is-
land Brick Co.

PORT SALONGA—Brown Clay Works
GARDENVILLE—Bender, Henry
GLASCO—Maginnis, Wm. Co.
Washburn Bros. Co.

GLEN HEAD—Post, Wm. & Jonathan
GOSHEN—Decker, Wm. F.

GRASSY POINT—Morrissey & Co.
GREEN BRIDGE—(See New York City, Bor-
ough of Richmond)

GRENPOT—Sage Brick Mfg. Co.
HAVERSTRAW—Allison, B. J. & Co.

Allison & Wood
Bennett, Bessie
De Noyelles & Co.
Excelsior Brick Co.
Fowler, Everett
Fowler, D., Jr., & Co.
Garner Brick Works
Lynch & O'Brien
MaGuire, Terence
Malley, Mrs. Mary
Peck Brick Co.
Renn, E. N. & Co.

Shankey, Thos & Son
Snedeker Bros.
Wood & Allison

HOOSICK FALLS—Dolan, John
HORNELL—Preston Brick Co.
HORSEHEADS—Horseheads Brick Co.
HUDSON—Bartlett Brick Co.
INWOOD—Crocker, Henry & Jas.
JAMESTOWN—Jamestown Shale Paving Brick
Co.

JOHNSTOWN—Kilmer, Robert M.
KINGSTON—Hutton Co., 221 E Strand
LANCASTER—McOutcheon, C. H.
LANSINGBURG—(See Troy)
MECHANICSVILLE—Cary Brick Co.
Champlain Brick Co.
New England Brick Co.

NEW YORK CITY.

Boroughs of Manhattan & Bronx.

NEW YORK—American Sand Lime Brick Co.,
39 Cortlandt

Barnes, Wm. H., 680 12th av
CARTER, BLACK & AYERS
(Mfrs'. Agents), 1 Madison av. (See adv.
index, end of book)

CHESTNUT RIDGE WHITE
Brick Co. (Eight Colors), 121 W 42d. (See
adv. index, end of book)

FISKE & COMPANY (Inc.), Flat
Iron bldg. (See adv. index, end of book)

FLEMING & CO. (Dealers), 253
B'way. (See adv. index, end of book)

Frederburg & Lounshury, 289 4th av
Harris Brick Co., 77 Mercer

Hydraulic Press Brick Co., 289 4th av
King, John J. & Co., 601 W 51st

Kreischer (The), Brick Mfg. Co., 119 E 23d
MAURER, HENRY & SON, 420 E

23d. (See adv. Front Inside Cover)
New Jersey Co., 11 B'way

Peabody Clay Co., 11 B'way
Person & Co. (Mfrs' Agents), 160 5th av

Phila. & Boston Face Brick Co., 120 W 42d
Plummer, Albert C., 120 W 42d

Powhatan Clay Mfg. Co., 1123 B'way
Richmond Brick Co., 34 Hubert

Rossville Brick Co., 15 Whitehall
SAYRE & FISHER CO., (Hard

Building), 261 B'way. (See adv. Front In-
spears Brick Co., 22 E 136th side Cover)

THOMAS, E. H. (Mfrs Agt), 1123
B'way

Underhill, W. A. Brick Co. ("Colbaugh"),
103 Park av

Willard, C. T. Co., 110 E 23d

Borough of Richmond.

GREEN RIDGE—Dunn & Dolan
Richmond Brick Co.

(End of New York City)

NIAGARA FALLS—Frontier Brick Works
ROCHESTER—New York Press Brick Co., 27
St. Paul

Rochester Brick & Tile Mfg. Co., 243 Pow-
ers bldg

Rochester German Brick & Tile
Co., 279
South av

RONDOUT—(See Kingston)
ROME—Parry, W. W.

SANDY HILL—Sandy Hill Brick Co.
SOUTHOLD—Sanford, Chas. L.

STONY POINT—Reilly & Marks
SYRACUSE—Merrick, Chas. H.

Onondaga Vitrified Brick Co.
Pack, Geo. W. & Son

TROY—Glass, Rob't & Co., Hoosic, above 10th
Painton, Chas. R., Head of House av

Troy Brick Co., Old Turnpike & B. & M.
R. R., Lansingburg

Troy Fireproofing Co.
UTICA—Utica Brick & Tile Co.

Weaver's, Geo. F. Sons Co., 237 Bleeker
VERPLANK—Bonner Brick Co.

Mackey, M. E. & Co.
WATERTOWN—Watertown Pressed Brick Co.,
240 Main

NORTH CAROLINA.

ASHEVILLE—Asheville Brick Works
French Broad Granite Brick Co.

Hildebrand, David
Shchan, Geo. C., Asheville, N. C.

CHARLOTTE—Carson Brick Co.
Charlotte Brick Co.

DURHAM—Cheek & Belvin
Fitzgerald, C. T. & S. B.

ELIZABETH CITY—Elizabeth City Brick
Works
Thompson, F. G.

FAYETTEVILLE—Poe, E. A. Brick Co.
GIBSON—Green Pond Granite Brick Co.

GOLDSBORO—Grant, H. L. & Son

GREENSBORO—Kirkpatrick Brick Co.
Watson, W. A. Sr.

HAW RIVER—Trolinger, Jno. A.
HIGH POINT—High Point Brick Co.

KINSTON—Carolina Brick Co.
WELDON—Chockoyotte Brick Co.

Weldon Brick & Land Improvement Co.
WILMINGTON—Moore, Roger Sons & Co., 104

Wilmington Granite Brick Co. N Water
WILSON—Lucas, Silas

WINSTON SALEM—Hedgecock, R. W.

NORTH DAKOTA.

DICKINSON—Dickinson Fire & Press Brick Co.
DRAYTON—Drayton Brick Co.

FARGO—Anderson, E.
GRAND FORKS—Red River Valley Brick Cor-
poration

HILLSBORO—Hillsboro Brick & Tile Co.
KENMARE—Kenmare Brick & Coal Co.

OHIO.

AKRON—Akron Brick & Tile Co. (Shale)
Cooper Bros., Spicer n Exchange

Crouse G. W. Jr., S E cor Spicer & South
McCausland Bros., E Tallmadge av

Windsor Brick Co. (& Tile)
ALGER—Alger Clay Mfg. Co.

ALLIANCE—Auld, John & Sons
ANTWERP—Harmann, N. & Son (Tile)

ASHLEY—Dennis, M. (Tile)
ATHENS—Athens Brick Co.

ATTICA—Keller, G. M. (Tile)
AVERY—Park & Tucker (Tile)

BASCOM—Miller, J. A. & Co. (Tile)
BATAVIA—Clermont Brick Co.

BEAVERDAM—Donner, Chris. (Tile)
BELLE CENTER—Royer, Chas.

Stewart, J. I. (Drain Tile)
BETTSVILLE—Flanders, Geo. (Tile)

BLANCHESTER—Blanchester Brick & Tile Co.
BLOOMDALE—McPherson & Co. (Tile)

BLOOMVILLE—Bloomville Brick & Tile Co.
BLUFFTON—Diller & Son (Drain Tile)

BRECON—Heidecker Brick Co.
BRICE—Brice Clay Co.

BROOKLYN—Thies & Voss Co.
BRYAN—Bryan Brick Co.

Neff, Benj. F.
CANAL DOVER—Bose & Kaser

CANTON—Acme Brick Co.
Canton Pressed Brick Co.

Columbia Fire Brick Co.
Metropolitan Paving Brick Co. (Shale)

CAREY—Stief Bros.
CARROTHERS—Clements, J. F. (Tile)

CELINA—Thieman & Schulte
CENTERBURG—Landrum & Landrum (Tile)

CINCINNATI—Anders, Geo. E. & Bro., 1745
Westwood av

Blair, J. M. Brick Co., Builders' & Traders'
Exch

CINCINNATI WALL TILE CO. (Mfrs.
Agents), 206 E 5th. (See adv. index, end
of book)

Clermont Brick Co., Union Trust bldg
Gould, John F., Duck Creek rd nr Mont-
gomery pike

Hyde Park Brick Co., McCormick rd, Hyde
Kolde Bros., Sumner, N of Gest (Park)

Meier, A. & Co., Builders & Traders' Ex.
Suer, Herman & Sons, Sidney av nr Wood-
burn av

Tegeler, Herman, Arlington & O. S. W.
R'y

Warburg, Bernard, McLean av nr York
Warburg, John T., McLean av n York

Welling, G. H. & Bro., McLean av, opp
Execu

Westwood Brick Co., Union Trust bldg
Wuecker, Jas., ft of Setchell

CLEVELAND—Barkwill Brick Co., East 75th
& Kingsbury Rnn, S E

Barkwill & Bradley, The Arcade
Brookside Brick Co., 3639 W 56th

Cleveland Brick & Clay Co., Rockefeller
bldg

Dawson & Carder, 3089 E 78th, S E
Deckman-Duty Brick Co., Rose bldg

Eggers Brick Co., 4101 Valley rd, S W
Farr Brick Co., 3732 B'way, S. E.

Gynn, Geo. H., Harvard av c Beyerle rd
Harrison, Wm. H., E 49th, opp Guy av

Hydraulic Press Brick Co., Schofield bldg
Knauff & Esterbrook, Aetna rd, S E

Ohio Clay Co., Schofield bldg
Standard Brick Co., 4398 Bradley rd., S W

Wilson, John, Independence rd., junc. Ohio
CLYDE—Clyde Brick & Tile Works Canal

COLDWATER—Walters, A. X.
COLLINWOOD—Collinwood-Deckman-Duty Co.
(Vitrified Sewer)

COLUMBUS—Columbus Brick & Terra Cotta Co., New First Nat'l Bank bldg
Columbus Clay Products Co., Columbus Trust bldg
Conard, John A., Furnace and Ark.
Dow Brick Co., New First Nat'l B'k bldg
Ferris, Warren B. Brick Co., Columbus Savings & Trust bldg
Granite Brick Co., Dublin & Michigan avs
Ironclay Brick Co., 55 Ruggery
Kuip, J. & Son, Marion av
Schmitt Brick Co., Ann & Hanford
South Webster Brick Co., The, 576 N High
Sugar Grove Brick Co., The, 901 Harrison
CONDIT—Chadwick, W. W. (Tile)
COSHOCTON—Coshocton Brick Co.
COVINGTON—Wagner, J. G. (Tile)
CROOKSVILLE—Crooksville Brick Co.
CUYAHOGA FALLS—Keller Brick Co.
DAYTON—Boren, John W. Brick Co., Smithville, rd.
Chadwick, W. Herbert, Dakota c Summit
Dayton Brick Co., 1600 S Wayne av
Hosket, Chas. F., Springfield Pike
Parish, E. K., W 3d nr Corp Line
Telgier Bros., Patterson bldg
DELAWARE—Delaware Clay Mfg. Co.
DESHLER—Deshler Brick & Tile Mfg. Co.
DILLONVALE—Dillonvale Brick & Tile Co.
DRESDEN—Dresden Clay Works
DUPONT—Etter, Wm. T.
DUVALL—Teegarden, J. W. & Co.
EAST LIVERPOOL—East Liverpool Brick Co.
Gamble & Surles
ELMORE—Moser, H.
ELYRIA—Wallhead, Wm. L. & Sons
FOREST—Forest City Clay Works
FORT JENNINGS—Mericle, Aaron (Tile)
FRAZEYSBURG—Frazeyburg Brick & Tile Co.
FREDERICKSBURG—Redett & Sons
FREMONT—Potter, D. M.
Reynolds, Albert A. (Tile)
Riverside Fuel & Supply Co.
GALLIPOLIS—McCormick, Geo. H. & Son (Tile)
GERMANTOWN—Crauder, Henry (Tile)
KLANDORF—Nartker & Schroeder
GRAND RAPIDS—Carr, D. R.
GREEN SPRING—Young, Joseph (Tile)
GREENVILLE—Richeson, Nelson & Moore (Drain Tile)
GROVE CITY—Thackery & Mapon
GUTMAN—Wehinger Bros. (Tile)
HAMILTON—Hamilton Brick Co.
HAMLER—Gibson, Jas. A. (Tile)
HAVILAND—Goble, T. L. (Tile)
HILL GROVE—Daubenmire, C. E.
HOLGATE—Weisbacker, Jno. A.
IRONTON—Ashland Fire Brick Co.
Wileman & Helbing
JAMESTOWN—Dodd & Carpenter (Tile)
JEFFERSON—Loftus, Martin
JEFFERSONVILLE—Allen, George (Tile)
JEWELL—Flory Bros. (Tile)
KALIDA—Rambo & Rimer Bros.
KENTON—Schmidt, Wiphart
LACARNE—Ballin, August
Ballin, R. C.
LANCASTER—Cowden Brick & Tile Co.
LATTY—Bailey, R. H. & J. D. (Tile)
Mustard, W. H. (Tile)
LEAVITTSBURG—Leavittsburg Brick Co.
LIMA—Simmons, A.
LOGAN—Logan Brick Mfg. Co. (Vitrified Fire Clay Building)
LOUISVILLE—Keim Brick & Tile Co.
Louisville Brick & Tile Co.
Stoneware Tile Co. (Hollow Building Brick)
McARTHUR—McArthur Brick Co.
McCLURE—Kaylor, John
McCOMB—Pendleton, Grant (Tile)
McGILL—Mumma Bros. (Tile)
MARIETTA—Cisler, Thomas & Son
MARION—Dix-Mason Brick Co.
MASSILLON—Massillon Brick Co.
Massillon Stone & Fire Brick Co.
MENDON—Fox, L. E. (Tile)
MIDDLEPORT—Middleport Brick Co.
MIDDLETOWN—Frisch, E. L. & Bros.
Smith, Wm. & Co.
MILAN—Lavey, James (Tile)
MILLERSBURG—Millersburg Brick & Tile Co.
MILLERSPORT—Brison Bros.
MINERAL CITY—Federal Clay Product Co. (Sewer, Circle, Foundations, etc.)
Holden, C. E.
Markley, Geo. J.
MINSTER—Steineman, Mrs. Anna (Tile)
MOGADORE—Colonial Pressed Brick Co.
MONROEVILLE—Mason, F. H. & Son (Tile)
MORRAL—Postle, C. H.

MOUNT GILEAD—Hickson, Joseph
McGowan & Co. (Drain Tile)
MOUNT HEALTHY—Roettele Bros.
MOUNT STERLING—Michel, George (Tile)
NAPOLEAN—Mehring Brick & Tile Co.
NELSONVILLE—Nelsonville Brick Co. (Building)
NEWARK—Vogelmeier Bros.
NEW BREMEN—New Bremen Brick Co.
NEW COMERSTOWN—Novelty Brick & Coal Co.
NEW LONDON—Richards, Samuel (Tile)
NEW WASHINGTON—Baumgartner & Co. (Brick & Tile)
Seitter & Brown (Tile)
NORTH ROBINSON—Fate, P. R. (Tile)
NORWALK—Norwalk Brick & Stone Co.
OAK HARBOR—Gieckler, Fred. (Tile)
OAK HILL—Aetna Fire Brick Co.
Davis Fire Brick Co.
Diamond Brick Co.
Jones Fire Brick & Cement Co.
Oak Hill Fire Brick & Coal Co.
Ohio Fire Brick Co.
OTTAWA—Ohio Brick & Tile Works
PAINESVILLE—Thompson, Chas.
PAULDING—Klingler Bros (Tile)
PAYNE—Garinroth, Geo.
Rahrig, Aug.
PERRYSBURG—Perrysburg Tile & Brick Co.
PICKERINGTON—Fenstermaker, W. E. (Tile)
PIQUA—Reed, Wm. Brick Works
PLAIN CITY—Plain City Brick & Tile Co.
PLEASANTVILLE—Miller, N. H.
PORTSMOUTH—Kaps Bros.
Pechles Paving Brick Co. (Sewer, Sidewalk, etc.)
Portsmouth Brick & Tile Co.
Portsmouth Paving Brick Co.
PRAIRIE DEPOT—Consolidated Tile & Brick Mfg. Co.
RICHWOOD—Richwood Clay Mfg. Co.
RIVER STYX—Ream, A. (Tile)
ROCKFORD—Rockford Brick & Tile Co.
SHERWOOD—Kellermeir Bros.
SHILOH—Prame, F. J.
SOUTH ZANESVILLE—South Zanesville Sewer Pipe & Brick Co. ("Bolen's" Brown Graulite & "Halwood")
SPARTA—Weaver, H. D. (Tile)
SPENCERVILLE—Schaeffer, G. W. (Tile)
SPRINGFIELD—Grube, Adam & Son, Urbana
plk N of Corp. line
Grube Bros., South end of Isabella
Houck Brick Co., Robert Pige nr State
STEBENVILLE—Nicholson Brick Co.
STRYKER—Rumsey, J. D.
SUMMIT STATION—Columbus Clay Mfg. Co.
SYCAMORE—Althouse Bros. (Tile)
TIFFIN—Hall, John A. & Co.
Heilman Bros.
TOLEDO—Auburndale Brick Works, Nicholas bldg
Burkhart, Lawrence, Western av nr Swan Creek
Collingwood Brick Co., c Blanchard & Marston av
Ellis Brick Co., L. S. & M. S. R'y & Castle
Fox, John B. Brick Co., Lagrange boul
Kohler Brick Co., St. Clair bldg
Logan Brick Mfg. Co.
Northern Brick Co.
Ohio Brick Co.
Spear, Wm. J., L. S. & M. S. R'y, nr of
Tracy, F. E., 241 Ontario Central av
TORONTO—Toronto Fire Clay Co.
TRIMBLE—Trimble Brick Mfg. Co. (Building, Sewer and Sidewalk)
TROY—Troy Tile & Brick Co.
UHRICHVILLE—Riffe, J. J.
UNION FURNACE—Columbus Brick & Terra Cotta Co.
UPPER SANDUSKY—Blaser, E. G. (Tile)
Zahn Bros.
URBANA—Schaffer, George & Son
Thackery, J. C.
VERSAILLES—Murphy, John (Tile)
WADSWORTH—Wadsworth Brick & Tile Co.
WARLEN—Warren Brick & Tile Co.
Western Reserve Brick & Tile Co.
WAUSEON—Clark, S. J.
WAVERLY—Bauersach, G. A.
WAYNESFIELD—Keith Bros. & Co. (Tile)
WELLSVILLE—Champion Brick Co.
Vulcan Clay Co.
WEST UNITY—Denman, W. M. (Tile)
WICKLIFFE—Kline, John Brick Co. (Building & Sewer, Capacity 5,000,000)
WILLIAMSBURG—Williamsburg Brick Co.
WOOSTER—Wooster Shale Brick Works
YOUNGSTOWN—Bessemer Limestone Co. (Wire Cut Shale; Capacity, 225,000 per Day)
ZANESVILLE—Harris Brick Co., 28 N 2d
Oakland Pressed Brick Co., Market c 3d
Townsend, T. B. Brick & Contracting Co.

OKLAHOMA.

ARDMORE—Cathey, Lee
HENNESSEY—Lane, A. E.
McALESTER—Choctaw Pressed Brick Co.
McAlister Brick Co.
MUSKOGEE—Muskogee Vitrified Brick Co.
OKLAHOMA—American Brick & Tile Co.
Oklahoma Brick Co.
SAPULPA—Sapulpa Pressed Brick Co.
SHAWNEE—Danal, E.

OREGON.

CORVALLIS—Corbett, W. C.
NORTH YAM HILL—Withycombe, P. (Tile)
PORTLAND—Anderson, Jas., 7th c Russell
Kern, L. E., E 41st c Division
SALEM—Burton, A. A.
Murphy, J. E. (Tile)

PENNSYLVANIA.

ALLEGHENY—Lambert, R. R. Co., Charles & Charlotte
ALLENTOWN—Allentown Paving Brick Co.
Downing, Joseph, Canal, E. A.
Hausman, Wm. A.
Kichline Brick Co., S. A.
Sensenbach, Chas. C.
Swoyer Bros. Brick Co.
ALTOONA—Altoona Brick & Tile Co.
ASPERS—Penn Tile Co.
ATHENS—Van Scoten, G. L.
AUBURN—Auburn Shale Brick Co.
BEAVER FALLS—Douglass-Whisler Brick Co.
Mound Brick Co.
BERWICK—Beach Haven Brick Co.
BOSTON—Harper, C. M. C.
BRADDOCK—Keller & Milliken
BRADFORD—Alumina Shale Brick Co.
Bradford Pressed Brick Co.
Broughton, P. B. & Co.
BRIDGEVILLE—Mayer, C. P. Brick Co.
BROOKVILLE—Humphrey Brick & Tile Co.
BUTLER—Butler Brick & Tile Co.
CALIFORNIA—California Clay Mfg. Co.
CARLISLE—Carlisle Brick Co.
CARNEGIE—Fort Pitt Stone & Brick Co.
Rosslyn Brick Co. (Building, Foundation & Sewer)
CHAMBERSBURG—Spahr, Jas. B.
CHARLEROI—Charleroi Brick Works
CHESTER—Law, Martha
CHICORA—Chicora Brick & Tile Co.
CLEARFIELD—Clearfield Brick Mfg. Co.
Clearfield Clay Working Co.
Clearfield Firebrick Co.
Standard Brick & Tile Co.
COLUMBIA—Columbia Brick Co.
Gohn, Daniel F.
DELPHI—Miller, Jno.
DUBOIS—Dubois Clay Mfg. Co.
Dubois & Butler Brick Co.
EASTON—Messer, John (Estate of)
Zehnder, Daniel
EAST STROUDSBURG—Zacharias, Jos. H.
EAST WAYNESBURG—Ross, J. B.
EMAUS—Binder Bros.
ERIE—Dudenhoeffer, Joseph & Co.
Dunn, Hy. C.
Genck Bros.
Paradine, T. J. & Son
FALLSTON—Fallston Fire Clay Co.
Pennsylvania Clay Co.
Standard Fire Clay Co.
FAYETTE CITY—Dinsmore Bros.
FORD CITY—Ford City Brick Co.
GETTYSBURG—Gettysburg Brick Co.
HAMBURG—Tobias & Sheridan
HANOVER—Snyder, Edw. H.
HARMARVILLE—Kountz Bros. Co.
HARRISBURG—Bigler, S. L. & Co.
Manchester Shale Brick Co.
HAYS—Hope Brick Co.
HOLLIDAYSBURG—Hart, Jos. Brick Co.
Portage Brick Co.
HOMESTEAD—Harbison-Walker Co. (Fire-Brick)
Homestead Brick Co.
HOWARD—Howard Brick Co.
HUNTINGDON—Barrick, John
IMPERIAL—Imperial Brick Co.
JOHNSTOWN—Campbell, Bruce H. Brick Co.
Johnstown Pressed Brick Co.
KANE—Kane Brick Co.
KITTANNING—Danaherty Bros. Brick Co.
Kittanning Brick & Fire Clay Co.
Kittanning Clay Mfg. Co.
KUNKLETON—CHESTNUT RIDGE
White Brick Co. (Eight Colors) (See adv. index, end of book)
LANCASTER—Bomberger, Henry, Pearl c 2d
Pontz, Adam, Ranck's Mill rd n Grofftown rd
Pontz, Jacob, 351 W James
Wise, C. & Bro., Manor c Prospect

LANSDALE—Scholl, S. L. & Sons
LANSDOWNE—Sullivan, Jno.
LATROBE—Latrobe Brick Co.
LEBANON—Dressel, Jno.
 Peerless Brick Co.
LEHIGHTON—Graver, H. A.
LEWIS RUN—Alumina Shale Brick Co.
 Broughton, P. B. & Co.
McKEESPORT—McKeesport Brick Co.
 Tempest Brick Co.
MARS—Mars Brick & Tile Co.
MEYERDALE—Duncombe, Geo. H.
MIDDLETOWN—Middletown Shale Brick Co.
MILLERSBURG—Heatherman, Jas. F.
MILTON—Fries, W. E.
MONESSEN—Monessen Brick Works
MONONGAHELA—Monongahela Clay Mfg. Co.
MORTON—Ackerman, Henry J.
MOUNT JEWETT—Mount Jewett Clay Co.
MOUNT UNION—Mount Union Silica Brick Co.
NAZARETH—Nonpareil Brick & Clay Co.
NEW BETHLEHEM—Canton Tile Hollow Brick Co.
NEW BRIGHTON—Brighton Fire Brick Co.
 Ingram & Co.
NEW CASTLE—Croton Limestone & Brick Co.
 Neshannock Brick & Tile Co.
 New Castle Portland Cement Co.
NEW OXFORD—Allwine Bros.
 Garbaugh, Wm. H.
 Staub Bros.
NEWPORT—Flurie, E. E.
NEWTOWN—Worstell Bros. & Co.
NEWVILLE—Heffelfinger, W. A.
NORRISTOWN—Norrystown Brick Co.
OSCEOLA MILLS—Osceola Silica & Fire
 OSGOOD—Morneeveck Co. Brick Co.
PENNSBURG—Reed & Landis
PHILADELPHIA—Aldan Brick Co., 148 N 2d
 American Brick Mfg. Co., Land Title bldg
 Atlantic Brick Mfg. Co., Betz bldg
 Carroll, H. C. & Sons, Glard av & N 58th
 Clay Product Supply Co., 1332 Walnut
 Conway, William S., 53th c Walnut
 Earley, John H., Nicetown lane, bel Front
 Equitable Brick Mfg. Co., S 60th c Pine
 Esseg & Myers, N 2d n Butler
 Frankford Brick Works, Dltman & Bridge
 Gesner, Thomas H. & Son, Woodland av c
 65th
 Goodwin, John A., 27th c Westmoreland
 Hanarty, Jno. & Sons, 58th c Cedar
 Hatten, Owen J., Fisher's la, n P. R. R.
 Hahn, Samuel (Est.), S 33d cor Dickinson
 Hydraulic Press Brick Co., Real Estate
 Trust bldg
 Jarden Brick Co., Land Title Bldg.
 Kelly, Christopher, N 6th cor Sedgley
 Kelly, Patrick & Son, Olney av & Ella
 Lehigh Brick Co., 27th & Cambria
 Leuton Brick Co., 25th & Passy'k av
 McAvoy's, Thomas B. Sons, 1345 Arch
 McAvoy & Morris, S 31st c Dickinson
 Mack Mfg. Co. (Building & Foundation)
 Land Title bldg
 Murtha, D. C., N 16th c Butler
 North Phila. Brick Works, 3d c Luzerne
 Phila. Brick Co., 25th c Passyunk av
 Rose, T. J., Brick Mfg. Co., Erie av c G.
 Seitter's F. Sons, Nicetown la nr G.
 Sincer, H. M. & C. B., Nicetown la & K
 Tansey Brick Co., 2d st pk & Godfrey av
 Webster & Keyser, 30th cor Tasker
 Young, Chas. A., 24th c McKean
PITTSBURG—Allegheny Brick Co., Keenan
 bldg
 Beckett, J. W. N., Pacific av & Colombo
 Blackfox Brick Co., 341 2d av
 Blair Bros., Stanton av & Blair
 Booth & Flinn (Ltd.), 1942 Forbes av
 Boyd Hill Brick Co., Vlekroy c Magee
 Carbon Brick Co., Machesney bldg
 Central Brick Co., Diamond Bank bldg
 Darlington Brick & Mining Co., 6306
 Frankstown av
 Entress Brick Co., 2240 Webster av
 Iron City Brick & Stone Co., Stanton &
 McCandless avs
 Mack Mfg. Co., Arrott bldg
 McFeely Brick Co., Diamond Bank bldg
 Marshall Brick Co., Alpine & Iowa
 Mayer, C. P. Brick Co., Park bldg
 Pennsylvania Clay Co., 421 Wood
 Pittsburgh-Buffalo Co., Frick bldg
 Sankey Bros., 2112 Carson
 Smith Bros. Brick Co., Park bldg
 Squirrel Hill Brick Co., Bristol n Bigelow
 Union Brick Co. (Ltd.), Westinghouse bldg
 Ward, J. H. & Sons Co., Nelson n Park av
 West End Stone & Brick Co., 121 Wabash
 West Virginia Fire Clay Mfg. Co.
 Westmoreland Brick Co., 2d Nat'l B'k bldg

PITTSTON—Amerlean Brick & Clay Mfg. Co.
POTTSTOWN—Davidhelser, F. B.
 Garber, Joseph S.
 Roth, Adam E.
 Spang, Joseph
PUNXSUTAWNEY—Nordstrom, Mrs. M. J.
QUAKERTOWN—Heckenroth, John
RALSTON—Ralston Brick Co.
READING—Kline, S., 149 N 8th, W R
 Montello Brick Works
 Parker, W. H., c 9th & Pike
 Reading Shale Brick Co., 516 Penn
RENOVO—Renovo Firebrick & Clay Works
REYNOLDSVILLE—Evans, Thomas E.
 Reynoldsville Brick & Tile Co.
RIDGWAY—Ridgway Brick Co.
ROCHESTER—Beaver Valley Roofing Tile,
 Brick & Terra Cotta Co.
 Miller Brick Co.
ROYERSFORD—Keeley, A. T.
SCRANTON—Interstate Conduit & Brick Co.
 Laurie, James, 1133 Prov rd
 Seranton Vitrified Brick & Tile Mfg. Co.,
 329½ N Washington av
SELLERSVILLE—Willett & Clymer
SHAMOKIN—Union Brick Co.
SOUTH BETHLEHEM—Bingen Brick Co.
 Groman Bros. (Ltd.)
SPRING CITY—Spring City Brick Works
STEELTON—Steelton & Harrisburg Brick Co.
TELFORD—Price, Chas. H.
UNIONTOWN—Snyder, Edw. Brick Co.
 Patterson, R. I. & Co.
 Union Fire Brick Co.
 Uniontown Brick Co.
 United Fire Brick Co.
 Williams, J. V. & Co.
VANPORT—Dando, Geo. & Co.
 Gloninger & Co.
 Vanport Brick Co.
WARREN—Highhouse, E. & Son
WASHINGTON—Donley Brick Co.
 Union Stone & Brick Co.
 Washington Brick Co.
WAYNESBORO—Miller, W. H.
WAYNESBURG—Waynesburg Brick & Stone
WEST CHESTER—Guss, H. R. Co.
WESTGROVE—Wilson & Cooper
WEST POINT—Vaughan, Edward
WILKES-BARRE—Diekover, Geo. T., Simon
 Long bldg
WILKINSBURG—Enterprise Brick & Stone Co.
WILLIAMSPORT—Guise Brick & Stone Co.
WINDBER—Kelley, Wm. P. Brick Co.
YORK—Grothe, William H.
 Kissinger's, Benjamin Sons
 Miller, Chas. E.
 Spring Garden Brick Co.
 York Shale Press Brick Co.
YOUNGSVILLE—Standard Shale Brick Co.

RHODE ISLAND.

PROVIDENCE—New England Steam Brick Co.

SOUTH CAROLINA.

CAMDEN—Camden Pressed Brick Co.
CHARLESTON—Southern Hydraulic Brick Co.
DARLINGTON—Darlington Brick Co.
GAFFNEY—Gaffney Brick Co.
GREENWOOD—Mayes, W. H.
HAMBURG—Rutherford & Co.
MULLINS—Pee Dee Brick Co.
NORTH AUGUSTA—Hankinson Brick Co.
SPARTANBURG—Hanna, G. H.
SUMMERVILLE—Summerville Brick Works
SUMTER—Sumter Brick Works

SOUTH DAKOTA.

LEAD—Phillips & Bartlett
SIOUX FALLS—Sioux Falls Pressed Brick Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Press Brick
 Works
 Chattanooga River Brick Co., W Mission-
 Genter Brick Co. ary av & Belt R'y
 Howard Park Brick Co., W White & Belt ry
 Southern Clay Mfg. Co. (Paving Brick)
 Wells, J. W. & Bro., Harrison av nr Lau-
 derdale
CLARKSVILLE—Settle, W. A.
COLUMBIA—Simpson, Thos.
DICKSON—Dickson Brick & Mfg. Co.
OYERSBURG—Nichols, J. M.
JACKSON—Owen & Long
 Southern Tile & Brick Works
KNOXVILLE—Knoxville Brick Co.
 Scott, A. A. Brick Co.
 So. Knoxville Brick Co.

McKENZIE—Costen & Moore
MARTIN—Walters, Jno. G.
MEMPHIS—Lyon, O. B. & Sons, Mallory av
 Tenn. Brick Co., South Exp. bldg
NASHVILLE—Bush, W. G. & Co., The Arcade
 Fulcher Brick Co.
 Lesueur, W. D. & C. H., Homestead bldg
 Lewis, E. T. Co.
RIPLEY—Ripley Brick Co.
ROBBINS—Southern Clay Mfg. Co.
UNION CITY—Bransford, T. L.

TEXAS.

ATHENS—Athens Fire Brick Co.
 Athens Pressed Brick Co. (Coleman, Chas.
 Austin—Butler, Michael H. Prop.)
BLOSSOM—Blossom Brick Co.
CALAVERAS—Mackey Brick & Tile Mfg. Co.
CENTER—Fleshman, S. T.
DALLAS—Atlas Press Brick Works, 291 Main
 Harry, J. M. Brick Co., North Texas bldg
DENTON—Denton Press Brick Co.
ELGIN—Elgin Butler Brick & Tile Co.
EL PASO—El Paso Brick Co.
 Elgin Press Brick Co.
 Paul's Brick Co.
 Sorenson & Morgan
FERRIS—Ferris Press Brick Co.
 Globe Press Brick Co.
 Lone Star Press Brick Co.
GAINESVILLE—Gainesville Brick Co.
HOUSTON—Butler Brick Co.
 Houston White Brick Co.
KENNEDALE—Kennedale Brick Works
LAREDO—Johnson, S. N.
LONGVIEW—Longview Pottery (R. F. Echols,
 Prop.)
MARSHALL—Higgins, James
MINERAL WELLS—Mineral Wells Pressed
 Brick Co.
PALMER—Palmer Pressed Brick Works
SAN ANTONIO—Mackey Brick & Tile Co.
SEGUIN—Souka, Joseph
WACO—Baker, James B.
 Waco Brick Co.

UTAH.

LOGAN—Logan Brick & Lime Co.
OGDEN—Calvert & Leek
 Ogden Pressed Brick & Tile Co.
PROVO—Provo Pressed Brick Co.
SALT LAKE CITY—Improved Brick Co.
 Salt Lake Pressed Brick Co.
 Utah Fire Clay Co.

VERMONT.

EAST RYEGATE—Ryegate Brick Co.
ESSEX JUNCTION—Drury Brick & Tile Co.
RUTLAND—Rutland Fire Clay Co.

VIRGINIA.

ALEXANDRIA—Bromilow Brick Works
ARLINGTON—Virginia Brick Co.
 Walker, W. T. Brick Co.
CHARLOTTESVILLE—Charlottesville Brick Co.
CHILHOWIE—Southern Clay Mfg. Co.
COVINGTON—Allegheny Brick Co.
DANVILLE—Fitzgerald, N. A. & T. J.
 Watson, J. T., Sr.
ELKWOOD—Nalle & Douglas
HAMPTON—Richardson, R. H. & Son
LYNCHBURG—Adams Bros. Payne Co.
MANCHESTER—Redford, Geo. E., Maury n
 12th
NORFOLK—Batchelder & Collins, 141 Water
 Builders' Supply Co., Mahon av nr Bramble-
 ton av
 Face, E. W. & Son, North av n River
 Mayo, W. R. & Sons, Bank of Commerce
 bldg
 Nansemond River Brick & Tile Co., 145
 Standard Brick Co., 249 Main Water
NORTON—Norton Brick Co.
PETERSBURG—Brister, Chas. M.
 Turner, W. R.
RADFORD—New River Sandstone Brick Co.
RICHMOND—Balto, Brick Co., 1920½ E Main
 Burroughs & Mankin, 812 E Main
 Davis, W. Benjamin
 Fulton Brick Works, Orleans & 2d
 Powers Bros. & Maynard, Williamsburg av
 Powhatan Clay Mfg. Co., 14 N 7th
 Ready, Wm. J.
ROANOKE—Adams, Payne & Gleaves (Inc.)
 (Annual Capacity, 37,000,000)
SALEM—Pierpont, G. R.
SOUTH BOSTON—Boston Brick Co.
STRASBURG—Lemley, L. F.
STURGEON POINT—Mayo, R. W. & Sons

SUFFOLK—Suffolk Clay Co.
WATERLOO—Clark & Crupper
New Washington Brick Co.
WEEMS—Buck, Levin T. & Co.
WINCHESTER—Barr, Edw. M.

WASHINGTON.

ABERDEEN—Stewart, A. J.
COLVILLE—Rusch Bros.
EVERETT—Everett Brick Co.
NORTH YAKIMA—Garrett Bros. Co.
SEATTLE—Builders' Brick Co., Pioneer bldg
Harper Brick & Tile Co., ft Washington
Hill Brick Co., 16 Av S & Dearborn
Lohse Brick Co., W. S. Mouth Dunvannish
River
Pontiac Brick & Tile Co., Burke bldg
Seattle Brick & Tile Co., 2221 Front
Washington Brick & Tile Co., New York blk
SPOKANE—Davie, J. T. & Co.
Washington Brick, Lime & Mfg. Co.
UNIONTOWN—Herboth, Geo.
WALLA WALLA—Walla Walla Brick & Tile
Walla Walla Stone & Brick Co. Co.

WEST VIRGINIA.

CHARLESTON—Kanawha Brick Co.
CLARKSBURG—Clarksburg Brick Works
Clarksburg High Grade Shale Brick Co.
ELKINS—Elkins Brick Co.
FAIRMONT—Hutchinson-Barnes Brick Co.
HUNTINGTON—West Virginia Paving & Press-
ed Brick Co.
HURRICANE—McCallister, Wm. H.
MARTINSBURG—Buxton, G. W.
Williams, Hedgecock & Fountain
MORGANTOWN—Morgantown Brick Co.
NEW CUMBERLAND—Aeme Fire Clay Works
Claymont Brick Works
Maek Mfg. Co. (Building & Foundation)
West Virginia Fire Clay Works
PARKERSBURG—Parkersburg Brick Works
PHILIPPI—Philippi Brick & Tile Co.
SPILMAN—Camden Clay Co.
WESTON—Weston Brick Co.
WHEELING—Suburban Brick Co.

WISCONSIN.

ATHENS—Athens Brick & Tile Co.
AUGUSTA—Johnson, W. E.
BARRONETT—Peterson, Martin
BLACK RIVER FALLS—Bright, B. H.
BLANCHARDVILLE—Blanchard, Alvin
BURLINGTON—Burlington Brick & Tile Co.
CHIPPEWA FALLS—Chippewa Brick Mfg. Co.
CUMBERLAND—Donatelle, S.
DE PERE—Hockers, Jno.
Roffers, Jno.
ELKHORN—Sprague, E. H.
FOND DU LAC—Fand du Lac Pressed Brick
GRAND RAPIDS—Lessig, John & Son
GREEN BAY—Green Bay Brick Co.
JANESVILLE—Janesville Granite Brick &
Janesville Red Brick Co. Stone Co.
JEFFERSON—Jefferson Brick & Tile Mfg. Co.
Kemmeter Bros.
LA CROSSE—Boma, J., State rd
Kepple, H., Abattoyr rd
Meier Brick Works
Meyer, M. J., Mormon Cooley rd
Schnell, Phil.
Schnell Bros.
MADISON—Stephens, David
Wisconsin Brick Co.
MENOMONIE—Hydraulle Press Brick Co.
Wisconsin Red Pressed Brick Co.
MERRIMACK—Merrimack Brick Co.
MILWAUKEE—Burnham Bros., 525 Howell av
Davelaar, M., & Son, Ellen & Pryor av
Kraatz, Chas. Brick Co., 14 Grand av
Milwaukee Concrete & Supply Co., 414 Mat-
thews bldg
Standard Brick Co., 496 Clement av
MONROE—Freese, Fred.
NEILLSVILLE—Schoengarth, Aug.
NESHKORO—Nest, G. J.
NEW LONDON—Prah, August
Zerrenner Bros.
PLYMOUTH—Krause, Otto
PORTAGE—Sanborn Brick & Ice Co.
PORT WASHINGTON—Gunther Bros.
RAVINE—Baumann, Wm.
Haumerson, F. H. & Sons
Hilker Bros. Brick Mfg. Co.
SCHLEISINGERVILLE—Baehring, H. W.
Rosenheimer, Jno.
SHEBOYGAN—Sheboygan Brick & Tile Co.
Zimbal Brick Co.
STEVENS POINT—Langenberg Brick Mfg. Co.
Stevens Point Brick Mfg. & Cons. Co.

UNION GROVE—Nisen, Michael
WATERTOWN—Cordes, L. H. & Co.
WHITEWATER—Whitewater Tile & Pressed
Brick Mfg. Co.

WYCMING.

LARAMIE—Wyoming Pressed Brick Co.

Brick Mfrs. (Corduroy)

Columbus Clay Products Co., Columbus, Ohio

Brick Mfrs. (Cupola)

(See Cupola Linings & Blocks)

Brick Mfrs. (Dutch Clinker)

(See Brick Manufacturers, Clinker)

Brick Mfrs. (Enameled)

American Enameled Brick & Tile Co., 1 Mad-
ison av, New York
Blue Ridge Enameled Brick Co., Prudential
bldg, Newark, N. J.
CARTER, BLACK & AYERS (Mfrs.
Agents), 1 Madison av, New York. (See adv.
index, end of book)

Gladding, McBean & Co., San Francisco, Cal.
Works: Lincoln, Cal.
Los Angeles Pressed Brick & Terra Cotta Co.,
Los Angeles, Cal.
Old Bridge Enameled Brick & Tile Co., Old
Bridge, N. J.
SAYRE & FISHER CO. (also Orna-
mental), 261 B'way, New York: Works,
Sayreville, N. J. (See adv. Front Inside
Cover)

Stegmayer Enamel Brick Co. (Stegmayer Pro-
cess), 1 Madison av, New York
Tiffany Enameled Brick Co., Main Office &
Works, Momenca, Ill.

Brick Mfrs. (Face)

(See Brick Manufacturers, Front)

Brick Mfrs. (Fire)

ALABAMA.

ASHBY—Ashby Brick Co.
BESSEMER—Bessemer Fire Brick Co.
BIRMINGHAM—North Birmingham Fire Brick
& Proofing Co.

CALIFORNIA.

ALAMEDA—Clark, N. & Sons
LINCOLN—Gladding, McBean & Co.
LOS ANGELES—Los Angeles Pressed Brick Co.
Pacific Clay Mfg. Co., 235 S Los Angeles
St. Louis Firebrick & Clay Co., 2464 E 9th
SAN FRANCISCO—Carnegie Brick & Pottery
Co., Montgomery blk
Clark, N. & Sons, 17 Spear
Forbes Bros., 1926 Sutter
Gladding, McBean & Co., Crocker bldg
Steiger Terra Cotta & Pottery Works, 18th
& Division

COLORADO.

CANON CITY—Diamond Fire Brick Co.
DENVER—Denver Fire Clay Co., 1742 Champa
Denver Sewer Pipe & Clay Co., Continental
PUEBLO—Standard Fire Brick Co. bldg

CONNECTICUT.

NEW HAVEN—Howard Co., 250 Boulevard
Stow, S. J. (Stove), 763 State
NORWICH—Peck, McWilliams & Co.

DISTRICT OF COLUMBIA.

WASHINGTON—National Terra Cotta Works,
316 13th, N. W.

DELAWARE.

WILMINGTON—Delaware Terra Cotta Co.

GEORGIA.

ATLANTA—Atlanta Terra Cotta Co., 6 N For-
syth
AUGUSTA—Georgia Vitrified Brick & Clay Co.
MACON—Stevens, H. Sons & Co.

ILLINOIS.

ALTON—Alton Paving, Building & Fire Brick
Co.
CARBON CLIFF—Argillo Works
CHICAGO—American Refractories Co., 115
Adams

Chicago Retort & Fire Brick Co., 45th &
Lasalle

Chicago Sewer Pipe Co., 79 Dearborn
Dee, Wm. E. Co., 169 Jackson boul
Evans, E. T. & Son Co., 4437 State
NATIONAL FIRE PROOFING CO.,
Commercial Nat'l Bank bldg. (See adv.
index, end of book)
Southern Fire Brick & Clay Co., Chamber
of Commerce bldg

JOLIET—American Refractories Co.
MONMOUTH—Monmouth Mining & Mfg. Co.
OTTAWA—Chicago Retort & Fire Brick Co.
ROCK ISLAND—Argillo Works
STREATOR—Streator Clay Mfg. Co.
UTICA—Utica Fire Brick Co.

INDIANA.

EVANSVILLE—Uhl Pottery Co.
FORT WAYNE—Moellering, W. H. F.
HILLSDALE—Hillsdale Fire Brick & Clay Co.
Southern Fire Brick & Clay Co.
HUNTINGBURG—Huntingburg Dry Pressed
Brick Co.
MONTEZUMA—Burns-Hancock Fire Brick &
Clay Co.

IOWA.

MASON CITY—Mason City Clay Works

KANSAS.

WICHITA—Wichita Silux Brick Co.

KENTUCKY.

ASHLAND—Ashland Fire Brick Co.
FIRECLAY—Louisville Fire Brick Works
FULLERTON—Tygart Fire Brick Co.

MARYLAND.

BALTIMORE—Baltimore Retort & Fire Brick
Co., Hull & Nicholson
Baltimore Terra Cotta Works, Covington &
Didier-March Co., Keyser bldg
Vulcan Fire Brick Co., 218 E York
FROSTBURG—Savage Mountain Fire Brick Co.
MOUNT SAVAGE—Union Mining Co.
NORTH EAST—Columbia Brick & Plaster Co.
Green Hill Fire Brick Works
North East Fire Brick Co.
United Fire Brick Co.
ROLLINS FORK—Vulcan Fire Brick Co.
SALISBURY—Salisbury Brick Co.

MASSACHUSETTS.

BOSTON—Eastern Clay Goods Co., 79 Milk
FISKE & COMPANY (Inc.), 25
Arch. (See adv. index, end of book)
DIGHTON—Dighton Stove Lining Co.
TAUNTON—Presbrey Stove Lining Co.
Taunton Stove Lining Co.
Union Stove Lining Co.
Williams Stove Lining Co.

MICHIGAN.

DETROIT—Holmes, F. B. & Co., Hammond
Houghton, Henry, Hammond bldg
Little, C. H. Co., Peninsular B'k bldg
IONIA—Ionia Pottery Co.

MINNESOTA.

MINNEAPOLIS—Northwestern Fireproofing
Works, Kasota bldg
Superior Mfg. Co., 209 Hennepin av
NEW ULM—Aufderheide, Fred.

MISSOURI.

FULTON—Fulton Fire Brick Co.
KANSAS CITY—Dickey, W. S., New York Life
bldg
ST. LOUIS—Blackmer & Post Pipe Co., Waln-
wright bldg
Evans & Howard Fire Brick Co., 920 Market
Grand View Fire Clay Mines (A. A. Van
Cleave, Prop.), Dale av & Kraft
Laelede-Christy Clay Products Co.
MISSISSIPPI GLASS CO., Main &
Angelia. (See adv. index, end of book)
Missouri Fire Brick Co., 411 Olive
Mitchell Clay Mfg. Co., 5623 Manchester av
Parker-Russel Mining & Mfg. Co., 722
Chestnut
St. Louis Clay Burning Co., Union boul &
De Giverville av
St. Louis Vitrified & Fire Brick Co., Waln-
wright bldg

NEBRASKA.

BEATRICE—Beatrice Brick Works

NEW HAMPSHIRE.

ROCHESTER—Kiesel Fire Brick Works

NEW JERSEY.

CAMDEN—Reeve, Augustus, 31 Market
JERSEY CITY—Gautier, J. H. & Co.

KEASBEY—Didler-March Co.

MAURER — **MAURER, HENRY & SON.**
(All Kinds for Steel, Iron, Copper & Glass
Works, Blast Furnaces, Rolling Mills,
etc.). (See adv. index, end of book)

NEWARK—Sayre, Jas. R., Jr., & Co.

ROSENHAYN—Rosenhayn Face Brick Co.

SAYREVILLE—**SAYRE & FISHER CO.**

(See adv. Inside Front Cover)

SOUTH AMBOY—**SOUTH AMBOY TERRA**

Cotta Co. (See adv. index, end of book)

SOUTH RIVER—National Pyro Granite Co.

TRENTON—Mercer Fire Brick Co.

Superior Fire Lining Co.

Trenton Fire Brick Co.

Trenton Fire Clay & Porcelain Co., 3d & Davies

WOODBIDGE—Berry, James E.

Mutton Hollow Fire Brick Co.

Ryan, Patrick L.

Valentine, M. D. Bro. Co.

Valentine, R. N. & H. Co.

NEW YORK.

ALBANY—Newton Fire Brick Co., Rathbone,

on R. & S. R. R.

BROOKLYN—(See New York City, Borough of Brooklyn)

BUFFALO—Bray & Cooper, 212 Ellicott

Buffalo Concrete Stone & Brick Co., ft Hudson

Buffalo Paragon Wall Plaster Co., 54 B'way

Lancaster Brick & Tile Co., Builders' Exch

Hall & Sons, 69 Tonawanda

Lyth, A. & Sons Co., Builders' Exch

Lyth Tile Co., 48 W Eagle

ELMIRA—Farrington, E. Ward

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Brooklyn Fire Brick Works, 88

Cooper, John, 111 Clay Van Dyke

Greenpoint Fire Brick Works, 111 Clay

Boroughs of Manhattan & Bronx.

NEW YORK—Darrow, Rufus, Jr., ft W 47th

Didler-March Co., 50 Church

FISKE & COMPANY (Inc.), Flat

Iron bldg. (See adv. index end of book.)

FLEMING & CO. (Blue Welsh),

253 B'way. (See adv. index, end of book)

Franklyn & Ferguson (English Imported),

Cotton Exch bldg

Hamill & Gillespie (Importers), 240 Front

Harbison-Walker Refractories Co., 1133 B'way

KREISCHER BRICK MFG. CO.,

119 E. 23d. (See adv index, end of book)

MAURER, HENRY & SON (All

Kinds for Steel, Iron, Copper & Glass

Works, Blast Furnaces, Rolling Mills,

etc.) 420 E 23d. (See adv. Inside Front

Cover)

NATIONAL FIRE PROOFING CO.,

Flatiron bldg. (See adv. index, end of

book)

Ostrander Fire Brick Co., 417 W 14th

Perth Amboy Fire Brick Co., 116 Liberty.

Works: Perth Amboy, N. J.

Powhattan Clay Mfg. Co., 1123 B'way

SAYRE & FISHER CO., 261 B'way.

(See adv. Inside Front Cover)

THOMAS, E. H. (Mfrs.' Agt.), 1123

Union Mining Co., 1 B'way B'way

Borough of Richmond.

KREISCHERVILLE—KREISCHER

Brick Mfg. Co. (See adv. index, end of

book)

(End of New York City)

PEEKSKILL—Horton, S. D.

ROCHESTER—Rochester Brick & Tile Mfg. Co.

Rochester Sewer Pipe Co.

SYRACUSE—Pack, Geo. & Son

Robinson Clay Product Co.

TROY—McLeod & Henry Co. (High Grade)

Ostrander Fire Brick Co., 309 2d

NORTH CAROLINA.

POMONA—Pomona Terra Cotta Co.

OHIO.

AKRON—Akron Fire Brick Co.

Robinson Clay Product Co.

ALLIANCE—Auld, Jno. & Sons

OANTON—Columbia Fire Brick Co. ("Colum-

bia," "Strasburg," "Eagle")

OINCINATI—Taylor's, Chas. Sons Co. (And

Fire Tile)

Tygart Fire Brick Co., 706 Burns

CLEVELAND—Dover Fire Brick Co., Cuyahoga

bldg

Federal Refractories Co., Superior bldg

Knauff & Esterbrook, Aetna rd, at P. R.

R., S E

Lockhaven Fire Brick Co., Superior bldg

Minor Fire Brick Co., Superior bldg

National Fire Brick Co., Superior bldg

NATIONAL FIRE PROOFING CO.,

Cuyahoga bldg. (See adv. index, end of

book)

Olive Hill Fire Brick Co., Superior bldg

Stowe-Fuller Co., Superior bldg

COAL GROVE—Petersburg Fire Brick & Tile

Co.

COLUMBUS—Acme Paving Co.

Columbus Brick & Terra Cotta Co.

Columbus Macadam Co.

Ferris, Warren B. (The), Co.

DELAWARE—Delaware Clay Mfg. Co.

EMPIRE—Minor Fire Brick Co.

Standard Fire Brick Co.

Stratton Fire Clay Co.

IRONDALE—East Ohio Sewer Pipe Co.

Standard Fire Brick Co.

IRONTON—Ashland Fire Brick Co.

LOGAN—Logan Clay Product Co.

MARIETTA—Cisler, Thos. & Co.

MASSILLON—Everhard Co.

Massillon Stone & Fire Brick Co.

MILLERSBURG—Millersburg Brick & Tile Co.

MINERAL CITY—Federal Clay Product Co.

Holden, C. E.

NELSONVILLE—Hocking Valley Fire Clay Co.

NILES—Niles Fire Brick Co.

OAK HILL—Davis Fire Brick Co.

Jones Fire Brick & Cement Co.

Oak Hill Fire Brick & Coal Co.

Ohio Fire Brick Co.

PORTSMOUTH—Portsmouth Refractories Co.

SCIOTOVILLE—Scioto Fire Brick Co.

STRASBURG—Columbia Fire Brick Co.

Dover Fire Brick Co.

National Fire Brick Co.

TORONTO—Toronto Fire Clay Co.

UHRICHVILLE—Buckeye Fire Clay Co.

YOUNGSTOWN—Bessemer Limestone Co.

ZANESVILLE—Harris Brick Co., 28 N 2d

Townsend, T. B. Brick & Contracting Co.

PENNSYLVANIA.

ALLENTOWN—Downing, Joseph

BEECH CREEK—Penna. Fire Brick Co.

BOLIVAR—Lincoln Fire Brick & Shape Co.

CATASAUQUA—Lchigh Fire Brick Co.

CLEARFIELD—Clearfield Clay Working Co.

CONNELLSVILLE—Soisson, Jos. Fire Brick Co.

DARLINGTON—Darlington Brick & Mining Co.

DUBOIS—DuBois Clay Mfg. Co.

FALLSTON—Fallston Fire Clay Co.

Standard Fire Clay Co.

JOHNSTOWN—Haws, A. J. & Sons (Ltd.)

Savage Fire Brick Co.

Swank's, Hiram Sons

LATROBE—McFeeley Brick Co.

LAYTON—Harbison-Walker Refractories Co.

Layton Fire Clay Co.

LOCK HAVEN—Lock Haven Fire Brick Co.

Queen's Run Fire Brick Co.

LOCKPORT—Gardner, James, Jr., Co.

MANORVILLE—Harbison-Walker Refractories

Co.

MILL HALL—Harbison-Walker Refractories Co.

Mill Hall Brick Works

MONACA—Welch-Bright Co.

MONONGAHELA—Courtney Fire Brick Co.

Monongahela Clay Mfg. Co.

MOUNT BRADDOCK — Eureka Fire Brick

Works

MOUNT UNION—Mount Union Silica Brick Co.

NEW BRIGHTON—Barnes, S. Co. (Ltd.)

Brighton Fire Brick Co.

Smith, A. F. Co.

NEWCASTLE—Croton Limestone & Brick Co.

Neshannock Brick & Tile Co.

Newcastle Portland Cement Co.

ORVIS—Hayes Run Fire Brick Co. (Difficult

Shapes a Specialty)

OSCEOLA MILLS—Osceola Silica & Fire Brick

Co.

PHILADELPHIA—Borgner, Cyrus Co., 23d ab

Boulter Mfg. Co., 1617 North Race

Hyzer & Lewellen, 952 N 9th

Kolb, G. & W., Meadow c Jackson

MAURER, HENRY & SON (All

Kinds for Steel, Iron, Copper & Glass

Works, Blast Furnaces, Rolling Mills,

etc.), Penna. bldg. (See Inside Front

Cover)

NATIONAL FIRE PROOFING CO.,

Land Title bldg. (See adv. index, end of

book)

Phila. Clay Material Co., 4629 Girard av

Phila. Fire Brick Works, 2306 Vine

Remmey, Rich. C. Sons Co., 2637 E Cum-

berland

Sandy Ridge Fire Brick Co., Crozer bldg

Sweeney, Geo. & Co., 1334 Ridge av

Trenton Fire Brick Co., 1328 N 9th

PITTSBURG—American Sewer Pipe Co., Besse-

mer bldg

Blackfox Brick Co.

Clarion Fire Brick Co., Fulton bldg

Clearfield Fire Brick Co., Ferguson bldg

Dando, Geo. & Co., Fulton bldg

Dunbar Fire Brick Co., Arrott bldg

Harbison-Walker Refractories Co., Farmers'

Bank bldg

Kier Fire Brick Co., 341 6th av

Lincoln Fire Brick & Shape Co., Farmers'

Bank bldg

McLain, E. S. & Son, Fulton bldg

Manown Mfg. Co. (Also Sleeves, Nozzles &

Runner, etc., for Open Hearth & Besse-

mer Steel Works, etc.) 232 5th av

Mount Savage Fire Brick Co., 347 4th av

NATIONAL FIRE PROOFING CO.,

Fulton bldg. (See adv. index, end of book)

Pennsylvania Fire Brick Co., Diamond B'k

bldg

Pittsburg Clay Product Co., Keenan bldg

Reese, Isaac & Sons Co., Farmers' Bank

bldg

Savage Fire Brick Co., Park bldg

Standard Fire Brick Co., Empire bldg

Union Mining Co., 345 4th av

Vanport Brick Co., Farmers' Bank bldg

West Virginia Fire Clay Mfg. Co.

PITTSBURG—American Brick & Clay Mfg. Co.

READING—Fox, E. S. & Co.

Reading Fire Brick Works, 4th c Canal

RENOVO—Renovo Fire Brick & Clay Works

ROBINSON—Garfield Fire Clay Co. (Also

Sleeves, Nozzles & Runner, etc.), for Open

Hearth & Bessemer Steel Works, etc.)

ROCHESTER—Miller Brick Co.

ROYERSFORD—Rogers & Co.

SALINA—Kier Fire Brick Co.

SANDY RIDGE—Sandy Ridge Fire Brick Co.

ST. MARYS—Elk Fire Brick Co.

SCRANTON—Interstate Conduit & Brick Co.

SHARON—Sharon Fire Brick Co.

SOUTH FORK—South Fork Fire Brick Co.

VANPORT—Dando, Geo. & Co.

WEST DECATUR—Wynn, W. H. & Co. (Inc.)

WILLIAMS—Savage Fire Brick Co.

WILLIAMSPORT—Burns Fire Brick Co.

WOODLAND—Harbison-Walker Refractories Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Sewer Pipe &

Southern Clay Mfg. Co. Fire Brick Co.

TEXAS.

ATHENS—Athens Fire Brick Co.

UTAH.

OGDEN—Ogden Sewer Pipe & Clay Co.

SALT LAKE CITY—Salt Lake Fire Brick &

Tile Co.

VERMONT.

RUTLAND—**RUTLAND FIRE CLAY CO.**

(See adv. index, end of book)

VIRGINIA.

RICHMOND—Powhatan Clay Co.

WASHINGTON.

AUBURN—Northern Clay Products Co.

LITTLE FALLS—Little Falls Fire Clay Co.

SEATTLE—Denny-Renton Clay & Coal Co.

SPOKANE—American Fire Brick Co.

Washington Brick, Lime & Mfg. Co.

WEST VIRGINIA.

FAIRMONT—Hammond Fire Brick Co.

NEW CUMBERLAND—Claymont Brick Works

Mack Mfg. Co.

West Virginia Fire Clay Works

Brick Mfrs. (Fire Flashed)

Acme Brick Co., Cayuga, Ind.
 Iron Clay Brick Co., Ruggery bldg, Columbus, Ohio
 Columbus & Hocking Clay & Brick Co., Harrison bldg, Columbus, Ohio
 Federal Clay Product Co., Mineral City, O.
KREISCHER BRICK MFG. CO., 119
 E 23d, New York. Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)
 Orchard Knob Clay Works Co., Ironton, O.
 Progress Press Brick & Machine Co., 3205 S King's Highway, St. Louis, Mo.
SAYRE & FISHER CO., 261 Broadway, N. Y. Works: Sayreville, N. J. (See adv. Front Inside Cover)
 Shawnee Flash Brick Co., Brunson hldg, Columbus, Ohio

Brick Mfrs. (Front)

Firms indicated by a dagger (†) in front of their name manufacture both Standard & Roman sizes.

Manufacturers of Ornamental shapes are indicated thus (Also Ornamental) between their name and address.

CONSULT INDEX OF CONTENTS FOR OTHER BRICK & CLAY PRODUCTS.

ALABAMA.

BIRMINGHAM—Copeland Brick Co.
 COALDALE—Southern Clay Mfg. Co.
 MONTGOMERY—Holt Brick Co.

ARKANSAS.

HELENA—Strauh Pressed Brick Co.
 MALVERN—Clark Pressed Brick Co. (Red & Ornamental)

CALIFORNIA.

LINCOLN—†Gladding, McBean & Co. (Buff & Ornamental)
 LOS ANGELES—California Ornamental Brick Co., Mason Opera House
 †Los Angeles Pressed Brick Co. (All Shapes & Colors), Union Trust bldg
 SAN FRANCISCO—Carnegie Brick & Pottery Co., Montgomery blk
 Clark, N. & Sons, 17 Spear
 †Gladding, McBean & Co. (Buff & Ornamental), Crocker hldg
 Golden Gate Brick Co., 418 Market
 Steiger Terra Cotta & Pottery Works, 18th & Division
 STOCKTON—San Joaquin Brick Co.

COLORADO.

BOULDER—Boulder Pressed Brick & Lumber Co.
 DENVER—Boulder Shale Brick Ass'n Co.
 Colfax Pressed Brick Co., Exchange hldg
 Denver Pressed Brick Co., Temple ct
 Denver Sewer Pipe & Clay Co., Continental bldg
 Fairview Brick Co., Continental hldg
 PUEBLO—Summit Pressed Brick & Tile Co.

CONNECTICUT.

BERLIN—Merwin, C. P. Brick Co.
 HARTFORD—Hartford Faience Co. (Enameled)
 NEW HAVEN—Davis, W. E. & Co., 693 Orange
 Howard Co., 250 Bonlevard
 Montowese Brick Co., 116 Church
 Stiles, I. L. & Son Brick Co., 335 East

DELAWARE.

WILMINGTON—Oberly, Jas. B.

DISTRICT OF COLUMBIA.

WASHINGTON—Hydraulic Press Brick Co. (Buff, Red & Ornamental), Colorado
 Potomac Brick Co., 1413 G. N. W.
 Virginia Brick Co., Colorado hldg
 Walker, W. T. Brick Co., Corcoran bldg
 Washington Brick & Terra Cotta Co., H., N. W.
 West Bros. Brick Co., 729 15th, N. W.

GEORGIA.

ATLANTA—Chattahoochee Brick Co. (Red)
 AUGUSTA—Georgia Vitrified Brick & Clay Co.
 COLUMBUS—Berry, Geo. O. & A. F.
 MACON—Stevens, H. Sons & Co.
 ROME—Rome Brick Co. (Buff & Red)

ILLINOIS.

ALTON—Acme Pressed Brick Co.
 BARTONVILLE—Randall, Albert
 BEARDSTOWN—Meyer, H. C.
 BELLEVILLE—Belleville Brick Co. (Red, Press-Standard Brick Co. ed & Ornamental)
 BLOOMINGTON—Bloomington Pressed Brick Co.
 CHICAGO—American Brick Co., 4500 S Rohey
 American Sand-Lime Brick Co., 77 Jackson
 Bach Brick Co., 192 W Montrose av
 Burke, Alex. S., 40th av & W 19th
 Chicago Brick Co., Chamber of Com. bldg
 Dee, W. E. Co., 169 Jackson boul
 Hydraulic Press Brick Co. (Buff, Red & Ornamental), 138 Washington
 Illinois Brick Co., Chamber of Com. hldg
 Jenkins & Reynolds Co. (Mfrs.' Agts. Buff & Red), Chamber of Com. hldg
 Kemnitz & Schneider, 1258 Oakdale av
 Kimbell, S. S., Brick Co., 138 Wash'n
 Lahahn Brick Co., 92 LaSalle
 Moulding, Thos. Co. (Mfrs. Agts.), Chamber of Commerce bldg
 Murphy & Lorimer Brick Co., 947 The Rook-

National Brick Co., 84 LaSalle
 Sexton, Jno. M. L., 39th & Leavitt
 COLLINSVILLE—Hydraulic Pressed Brick Co.
 DANVILLE—Western Brick Co. (Red Repressed, Sand, Mould & Wire Cut)
 DECATUR—Decatur Brick Co.
 EDWARDSVILLE—Richards Brick Co.
 HAMPSHIRE—Backus & Sholes
 LA SALLE—†La Salle Pressed Brick Co. (Buff, Red & Ornamental)
 MOMENCE—Tiffany Enameled Brick Co. (Red)
 PAWNEE—Farnum, L. C. & Ornamental)
 QUINCY—Gem City Press Brick Co.
 ROCK ISLAND—Black Hawk Clay Mfg. Co.
 STREATOR—Barr Clay Co.
 Streator Paving Brick Co.
 TROY—Troy Pressed Brick Co.

INDIANA.

ANDERSON—Indiana Brick Co. (Sand Moulded Face)
 BRAZIL—Brazil Clay Co. (Buff Iron Spot, etc.)
 Indiana Paving Brick & Block Co.
 BROOK—Brook Terra Cotta, Tile & Brick Co.
 CAYUGA—Acme Brick Co. (Red, Buff, Mottled, Gray, Brown & Black, Flashed, etc.)
 Cayuga Brick & Coal Co. (Buff & Red)
 EVANSVILLE—Evansville Pressed Brick Co.
 HILLSDALE—Hillsdale Fire Brick & Clay Co.
 HUNTINGBURG—Huntingburg Dry Press Brick Co.
 INDIANAPOLIS—Adams Brick Co., 230 E Marion Brick Works (Red) Ohio
 NEW ALBANY—Goetz Pressed Brick Co.
 TERRE HAUTE—Terre Haute Pressed Brick Co.

INDIAN TERRITORY.

ADA—Ada Pressed Brick & Tile Co.
 CHICKASHA—Chickasha Shale Brick Co.
 SAPULPA—Sapulpa Pressed Brick Co.

IOWA.

DES MONES—Des Moines Clay Mfg. Co.
 Iowa Brick Mfg. Co.
 GLADBROOK—Gethmann Brick Co.
 GRAND JUNCTION—Goodwin Tile & Brick Co. (Buff, Standard Shapes Only)
 JEWELL—Jewell Brick & Tile Co.
 LEHIGH—Campbell, James
 Lehigh Clay Products Co.
 MASON CITY—American Brick & Tile Co.
 Mason City Brick & Tile Co.
 Mason City Clay Works
 MONTICELLO—Dautremont, Frank
 MUSCATINE—Muscatine Pressed Brick Co.
 SERGEANT BLUFFS—Holman, C. J. & Bro.
 SIOUX CITY—Sioux City Brick & Tile Works
 VAN METER—Platt Pressed & Fire Brick Co.
 WEBSTER CITY—Webster City Brick & Tile Co.

KANSAS.

CHANUTE—Hydraulic Brick Co.
 CHERRYVALE—Southwestern Brick Co.
 COFFEYVILLE—Coffeyville Pottery & Clay Co.
 Coffeyville Shale Brick Co.
 Coffeyville Vitrified Brick & Tile Co.
 IOLA—Union Brick Co. (Repressed, etc.)
 TOPEKA—Capital City Vitrified Brick & Paving Co.
 VANCE—Warner, C. F.
 WICHITA—Wichita Silx Brick Co.

KENTUCKY.

COVINGTON—Busse Brick Co.
 FULTON—Bransford, G. H. & Son
 LEXINGTON—Lexington Brick Co.
 LOUISVILLE—Hydraulic Brick Co. (Inc.), 2301 12th
 MAYSVILLE—Spahr Pressed Brick Works
 NEWPORT—Newport Pressed Brick & Stone Co.
 OWENSBORO—Owensboro Press Brick Co.
 Owensboro Sand-Lime Brick Co.
 PADUCAH—Katterjohn Brick Co.

LOUISIANA.

BATON ROUGE—Baton Rouge Brickyard
 NEW ORLEANS—Pelican Pressed Brick Co.
 Salmen Brick & Lumber Co. (Ltd.)

MAINE.

LEWISTON—Libby, Horace, 544 Main
 SACO—Saco Brick Co.
 WATERTOWN—Purinton, Horace Co.

MARYLAND.

BALTIMORE—Baltimore Brick Co. (Red), Maryland Trust bldg
 Burns & Russell Co., American hldg
 Independent Brick Co., Philadelphia rd
 CAMBRIDGE—Leonard, J. C.
 CUMBERLAND—Queen City Brick & Tile Co.
 EASTON—White, J. H. & Son
 ST. MICHAELS—Hope, Clifton
 SALISBURY—Salisbury Brick Co.

MASSACHUSETTS.

BOSTON—FISKE & COMPANY (Inc.)
 (All Colors & Shapes), 25 Arch. (See adv. index, end of book)
 Phila. & Boston Face Brick Co. (Light & IPSWITCH—Brown, J. A. Red), 165 Milk
 NORTH ADAMS—North Adams Brick Co.
 NORTHAMPTON—Bailey, Wm. A.
 SPRINGFIELD—Curtis, D. J., 77 Everett

MICHIGAN.

GLIO—Oliff, Thos.
 DETROIT—Clippert, Geo. H. & Bro. Brick Co., 1960 Michigan av
 Michigan Pressed Brick Co., Lawton av & M O R R
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 IONIA—Vanderheyden, Fred. H.
 OWOSSO—Frieeseke, J. & H.
 PONTIAC—Osman, W. H., Jr.
 ZEELAND—Zeeland Brick Co.

MINNESOTA.

ALBERT LEA—Albert Lea Brick & Tile Co.
 CHASKA—Greiner & Corning (Buff) (Buff)
 DRESBACH—Remp, R.
 MINNEAPOLIS—Wisconsin Red Pressed Brick
 Martin Brick Co., 504 Hennepin av Co.
 Wisconsin Red Pressed Brick Co.
 NEW ULM—Aufderheide, F. W.
 ST. PAUL—Greiner & Corning (Buff)
 St. Paul Brick Co., ft of Warsaw & Stewart av

Twin City Brick Co. (Buff, Red & Ornamental), Manhattan bldg
 SHAKOPEE—Schroeder Brick & Lime Mfg. Co.
 SPRINGFIELD—Ochs, A. C.
 WARREN—Lundgren, Angnst

MISSISSIPPI.

YAZOO CITY—Montgomery Land Co.

MISSOURI.

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 JACKSON—Kasten & Schmuke Pressed Brick Co.
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 Flanagan Bros. Mfg. Co., 2d nr Lydia
 Hydraulic Press Brick Co. (Buff, Red & Ornamental), Gumbel bldg
 Pittsburg Vitrified Paving & Building Brick Co. (Red & Buff), Postal Tel. hldg
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Hydraulic Press Brick Co. (Buff, Red & Ornamental), 705 Olive
†Ittner, Anthony Brick Co. (Red & Ornamental), Odd Fellows' bldg
†McEwing & Thomas (Buff, Red & Ornamental), 202 N 9th
Missouri Fire Brick Co., 411 Olive
Missouri Press Brick & Improvement Co., Marine av c Osage
National Pressed Brick Co., 721 Olive
Progress Press Brick & Machine Co. (All Colors & Shapes), King's Highway
St. Louis Press Brick Co., Cass av & Collins
Superior Press Brick Co., 3190 King's Highway
Winkle Terra Cotta Co., Century bldg

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Butte Sewer Pipe & Tile Co., 27 W

NEBRASKA.

HASTINGS—Hastings Pressed Brick Co.
Polenske Bros. & Co.
Polenske, Schellak & Co.
OMAHA—Hydraulic Press Brick Co. (Buff, Red & Ornamental)
Smith Brick Co.

NEVADA.

RENO—Reno Pressed Brick Co.

NEW HAMPSHIRE.

DOVER—Gage, Elbridge G.
GONIC—Boston Brick Co.

NEW JERSEY.

HACKENSACK—Gills, J. W.
LITTLE FERRY—Mehrhof, Philip
Mehrhof Brick Co.
NEWARK—Blue Ridge Enameled Brick Co.
Sayre, Jas. R., J., & Co., 2d Wharf S of Center st depot
OLD BRIDGE—Old Bridge Enameled Brick & Tile Co. (Enameled)
ROSENHAYN—†Rosenhayn Face Brick Co.
SAYREVILLE—**SAYRE & FISHER CO.**
(See adv. Front Inside Cover)
SOUTH RIVER—National Pyrogranite Co.
Pettit & Co.
Pettit & Cook Co.
South River Brick Co.
Yates Bros.
TRENTON—Applegate & Co., Pennington av
Donahoe & Nolan, Kirkbride & Calhoun
Fell & Roberts (Red & Ornamental), 501 Calhoun

NEW MEXICO.

ALBUQUERQUE—Albuquerque Pressed Brick & Tile Co.

NEW YORK.

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Dietschler, John
Lancaster Brick & Tile Co., Builders' Exch.
Lyth Tile Co., 48 W Eagle
Schmidt, G. W., 699 Bailey av
CANANDAIGUA—†New York Press Brick Co.
(Buff, Red & Ornamental)
CARTHAGE—Wrape & Peck
JAMESTOWN—Jamestown Shale Paving Brick Co.
KREISCHERVILLE—(See New York City, Borough of Richmond)
LA SALLE—La Salle Brick Works

NEW YORK CITY.

Boroughs of Manhattan & Bronx.

NEW YORK—**CARTER, BLACK & AYERS** (Mfrs. Agts.), 1 Madison av. (See adv. index, end of book)
CHESTNUT RIDGE WHITE BRICK Co. (Eight Colors), 121 W 42d. (See adv. index, end of book)
FISKE & COMPANY (Inc.) (All Colors & Shapes), Flat Iron bldg. (See adv. index end of book)
Harblson-Walker Refractories Co., 1133 Broadway
Hydraulic Press Brick Co. (Buff, Red & Ornamental), 289 4th av
KREISCHER BRICK MFG. CO. (Buff, Mottled & Ornamental, All Kinds), 119 E 23d. (See adv. index, end of book)
Ohio Mining & Mfg. Co. (Buff & Red), 96 Wall
†Powhatan Clay Mfg. Co. (White, Silver Grey & Salt & Pepper Grey), 1123 B'way
SAYRE & FISHER CO. (Various Colors, Plain & Ornamental), 261 B'way. (See adv. Front Inside Cover)
Sbawmut Clay Mfg. Co. (Salt Glazed), 182 B'way
THOMAS, E. H. (Mfrs' Agt.), (Buff & Red), 1123 B'way

Borough of Richmond.

KREISCHERVILLE—KREISCHER BRICK Mfg. Co. (Buff, Mottled & Ornamental, All Kinds). (See adv. index, end of book)
(End of New York City)

OLEAN—Olean Pressed Brick Co.
ROCHESTER—New York Press Brick Co. (Terra Cotta, Buff, Red & Ornamental), 27 St.
Rochester Composite Brick Co. Paul
Rochester German Brick & Tile Co.
SYRACUSE—Onondago Vitriified Brick Co., 611 S. A. & K. bldg
Robinson Clay Product Co. (Fire & Press), 401 Fulton
UTICA—Utica Brick & Tile Co.
WATERTOWN—Watertown Pressed Brick Co. (Red), 240 Main

NORTH CAROLINA.

ASHEVILLE—Asheville Brick Works
Hildebrand, D. S.
CHARLOTTE—Charlotte Brick Co.
ELIZABETH CITY—Elizabeth City Brick Works
POMONA—Pomona Terra Cotta Co.

OHIO.

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Akron Vitriified Clay Mfg. Co.
McCausland Bros., N. E. Tallmadge av
ATHENS—Athens Brick Co.
BATAVIA—Clermont Brick Co.
BRECON—Heidecker Brick Co.
CANTON—Canton Pressed Brick Co.
CINCINNATI—Austin Pressed Brick & Tile Co., 3071 Western av
CINCINNATI WALL TIE CO. (Mfrs. Agents), 206 E 5th. (See adv. index, end of book)
Moore-Coney Co., Union Trust bldg
Oakland Press-Brick Co., Mitchell & Main
Suer, B. & Sons, 23 Wuest
Suer, Herman & Sons, Sidney av n Woodburn av
CLEVELAND—Barkwill Brick Co., 75th & Kingsbury Run, S. E.
Cleveland Brick & Clay Co., Rockefeller bldg
Hydraulic Press Brick Co. (Buff, Red & Ornamental), Schofield bldg

Ohio Clay Co. (Hollow & Face Brick), Schofield bldg
Shepard, J. J. (All Colors & Shapes), 1078 W 11th, N. W.
Stowe-Fuller Co., Superior bldg
COLLINWOOD—Collinwood-Deckman-Duty Co.
COLUMBUS—Columbus Brick & Terra Cotta Co. (Fancy, Buff & Grey & Speckled)
Columbus Clay Products Co. (Red & Dark Corduroy)
Columbus Contractors' Supply Co. (Shale)
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Dow Brick Co., New First Nat'l B'k bldg
Ferris, Warren B. Brick Co. ("Mikado"), Col. Savings & Trust bldg
Ironclay Brick Co., Ruggery bldg
Shawnee Flash Brick Co. (Fire Flashed), Brunson bldg
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DELAWARE—Delaware Clay Mfg. Co.
FREMONT—Fremont Press Brick & Mfg. Co.
HAMILTON—Hamilton Brick Co.
HANOVER—Hanover Red Pressed Brick Co.
IRONTON—Orchard Knob Clay Works Co.
LOGAN—Logan Clay Product Co. ("Logan," Glazed Vitriified)
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MASSILLON—Everhard Co.
Massillon Brick Co.
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MINERAL CITY—Federal Clay Product Co. ("Sparta" Impervious Buff, Mottled, Flashed, Plain or Glazed)

Holden, C. E.
MOGADORE—Colonial Pressed Brick Co.
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National Fire Brick Co.
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Western Reserve Brick & Tile Co.
WELLSVILLE—Vulcan Clay & Brick Co.
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ZANESVILLE—Harris Brick Co. (Red, Standard Shapes Only)
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Townsend, T. B., Brick & Contracting Co. (Buff, Red, Standard Shapes Only), 195 Market

OKLAHOMA

ADA—Ada Pressed Brick & Tile Co.
SAPULPA—Sapulpa Pressed Brick Co.

PENNSYLVANIA.

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AUBURN—Auburn Shale Brick Co. (Red)
BOSTON—Harper, C. M. C., Co.
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KUNKLETON—CHESTNUT RIDGE
White Brick Co. (Eight Colors) (See adv. index, end of book)

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LEIGHTON—Graver, H. A.

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MILL HALL—Mill Hall Brick Works (Red)

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MONONGAHELA—Monongahela Clay Mfg. Co.

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Hydraulic Press Brick Co. (Buff, Red & Ornamental), Real Estate Trust bldg

†Jarden Brick Co. (Red & Ornamental), Land Title bldg
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Murtha, D. Charles, N 16th & Butler

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Harbison-Walker Refractories Co. (Mottled, etc.), Farmers' B'k bldg

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Lanz, M. & Sons, 2907 Carson
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SUMTER—Sumter Brick Works

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TENNESSEE.

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Chattanooga River Brick Co.

Southern Clay Mfg. Co.
DYERSBURG—Nichols, J. M.

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Fulcher Brick Co.
RIPLEY—Ripley Brick Co.

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Harry, J. M. Brick Co., N Texas bldg

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EL PASO—El Paso Brick Co.

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Mayo, W. R. & Sons
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GREEN BAY—Green Bay Brick Co.

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JEFFERSON—Jefferson Brick & Tile Mfg. Co.

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Standard Brick Co., 496 Clement av

RACINE—Hilker Bros. Brick Mfg. Co.
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STEVENS POINT—Langenberg Brick Mfg. Co.
WHITEWATER—Whitewater Tile & Pressed Brick Mfg. Co.

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Federal Clay Product Co., Mineral City, O.

Logan Clay Product Co. (Vitrified, Encaustic & Rock Faced), Logan, O.
Markley, Geo. J., Mineral City, O.

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Collinwood-Deckman-Duty Co., Collinwood, O.
Columbus Clay Mfg. Co., Columbus, O.

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Greiner & Corning, St. Paul, Minn.
Hanover Brick Co., Morristown & Whippany, N. J.

Klein, C. H. Brick & Tile Co., Chaska, Minn.
McCutcheon, C. H., Lancaster, N. Y., & Builders' Ex, Buffalo, N. Y.

Mason City Brick & Tile Co., Mason City, Ia.
Mason City Clay Works, Mason City, Ia.

MAURER, HENRY & SON, 420 E. 23d, New York; Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. Front Inside Cover)

Merwin, C. P. Brick Co., Berlin, Conn.
Millersburg Brick & Tile Co., Millersburg, O.

NATIONAL FIRE PROOFING CO., Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Ochs, A. C., Springfield, Minn.
Onondago Vitrified Brick Co., Syracuse, N. Y.

Parker-Russell Mining & Mfg. Co., 417 Pine, St. Louis, Mo.

Penna. Fireproofing Co., St. Marys, Pa.
Pittsburg & Buffalo Co., Frick bldg., Pittsburg, Pa.

Rochester Brick & Tile Mfg. Co., Powers blk., Rochester, N. Y.

SAYRE & FISHER CO., 261 B'way, N. Y., & Sayreville, N. J. (See adv. Front Inside Cover)

Sioux City Brick & Tile Works, Sioux City, Ia.
Troy Fireproofing Co., Troy, N. Y.

Whiteacre Fire Proofing Co., Waynesburg, O.

Brick Mfrs. (Magnesia)

Federal Refractories Co., Cleveland, O.

Brick Mfrs. (Magnesite)

Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa., & 1133 B'way, Stowe-Fuller Co., Cleveland, O. New York

Brick Mfrs. (Mottled)

(See Brick Manufacturers, Pompeiiian)

*Brick Mfrs. (Papestry)

FISKE & COMPANY (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg, New York. (See adv. index, end of book)

Brick Mfrs. (Pompeiiian)

Firms indicated by a (†) in front of their name Manufacture both Standard and Roman sizes.

Alumina Shale Brick Co., Bradford, Pa.
Atlantic Brick Mfg. Co. (Standard & Roman size), Betz bldg, Phila., Pa.

Croton Limestone & Brick Co. (Mottled & Ornamental), New Castle, Pa.

Dickey, W. S., Clay Mfg. Co. (Standard Only), N. Y. Life bldg, Kansas City, Mo.

Dunbar Fire Brick Co., Arrott bldg, Pittsburg, Pa., & Dunbar, Pa.

Everhard Co. (Mottled, etc.), Massillon, O.
†Fallston Fire Clay Co. (Mottled & Ornamental), Office & Works, Fallston, Pa.

Federal Clay Product Co., The (Mottled & Ornamental), Mineral City, O.
Ferris, Warren B (The) Brick Co., Columbus, O.

FISKE & COMPANY (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg, New York. (See adv. index, end of book)

Fuller Brick Co., Nashville, Tenn.
 †Fuller Brick & Slate Co. (Ltd.); Office & Works, Pine Grove Furnace, Pa.
 †Gladding, McBean & Co. (Mottled & Ornamental), Crocker bldg, San Francisco, Cal.
 Gloninger & Co., Pittsburg, Pa., & Vanport, Pa.
 †Golden Pressed & Firebrick Co. (Mottled & Ornamental), 431 15th, Denver, Col.
 Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa., 1133 B'way, New York
 Holden, C. E., Mineral City, Ohio
 Ironclay Brick Co., Ruggery bldg, Columbus, Ohio
 †Jarden Brick Co. (Mottled & Ornamental), Land Title bldg, Phila., Pa.
KREISCHER BRICK MFG. CO., 119
 E 23d, New York. Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)
 La Salle Pressed Brick Co., La Salle, Ill.
 †McEwing & Thomas (Mottled & Ornamental), 202 N. 9th, St. Louis, Mo.
 Newcastle Portland Cement Co., New Castle, Pa.
 †New York Press Brick Co. (Mottled & Ornamental), 27 St. Paul, Rochester, N. Y.; Works: Canandaigua, N. Y.
 Powhatan Clay Mfg. Co., Richmond, Va.; 1123 B'way, New York. Works: Clayville, Va.
 †Progress Press Brick & Machine Co. (Also Ornamental), Kings Highway & Oak Hill, St. Louis, Mo.
 Ralston Brick Co. (Standard Shapes Only), Ralston, Pa.
 †Rldgway Brick Co., Office & Works: Rldgway, Pa.
 Roseville Brick & Terra Cotta Co., Roseville, O.
†SAYRE & FISHER CO. (Mottled & Ornamental), 261 B'way, New York. Works: Sayreville, N. J. (See adv. Front Inside Cover)
 Shepard, J. J. (All Colors), 1078 W 11th, N W, Cleveland, O.
 Vanport Brick Co. (Standard Shapes Only), Farmers' Bank bldg, Pittsburg, Pa.

Brick Mfrs. (Porcelain)

Union Porcelain Works (Lock Arch & Straight), 300 Eckford, Brooklyn, N. Y.

Brick Mfrs. (Pressed)

(See Brick Manufacturers, Front)

Brick Mfrs. (Rock Faced)

(See Steel Brick & Rock Face Siding)

Brick Mfrs. (Sand Lime)

Aberdeen Sand-Lime Brick Co., Aberdeen, Miss.
 Daleville Sand-Lime Brick Co., Daleville, Ind.
 Diamond Brick Co., Muncie, Ind.
 Fort Wayne Pressed Brick Co., Fort Wayne, Ind.
 Genesee Sand-Lime Brick Co., Genesee, Pa.
 Granite Brick Co., Columbus, O.
 Kings Crown Plaster Co., Cedar Rapids, Ia.
 Laketon Sand Brick Co., N Manchester, Ind.
 Menominee Brick Co., Menominee, Mich.
 Newburgh Brick Co., Newburgh, N. Y.
 Owensboro Sand Lime Brick Co., Owensboro, Ky.
 Pensacola Brick Co., Pensacola, Fla.
 Savannah Brick Works, Savannah, Ga.
 Schwarz System Brick Co., 24 State, New York
 Sioux Falls Pressed Brick Co., Sioux Falls, S. D.
 Sugar Grove Brick Co., Columbus, O.
 Western Composite Brick Co., Kansas City, Mo.
 Wichita Silux Brick Co., Wichita, Kan.

Brick Mfrs. (Silica)

American Refractories Co., Commercial Bank bldg, Chicago, Ill.
 Blackfox Brick Co., Pittsburg, Pa.
 Carbon Brick Co., Farmers' Bank bldg, Pittsburg, Pa.
 Diamond Fire Brick Co., Canon City, Colo.
 Everhard Co., Massillon, O.
 Federal Refractories Co., Cleveland, O.
 Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa., & 1133 B'way, New York
 Haws, A. J. & Sons, Johnstown, Pa.
 Kittanning Brick & Fire Clay Co., Empire bldg., Pittsburg, Pa.
 Ligonier Silica Brick Co., Oakmont, Pa.
 Lincoln Fire Brick & Shape Co., Bolivar, Pa., & Farmers Bank bldg, Pittsburg, Pa.
 Los Angeles Pressed Brick Co., Los Angeles, Cal.

McFely Brick Co., Diamond Bank bldg, Pittsburg, Pa.
 Mount Union Silica Brick Co., Park bldg, Pittsburg, Pa.; Works: Mount Union, Pa.
 Osceola Silica & Fire Brick Co. ("Coffy"), Osceola Mills, Pa.
 Perth Amboy Fire Brick Co., 42 B'way, New York, & Perth Amboy, N. J.
 Reese, Isaac & Sons Co. (Fire Brick), Farmers Bank bldg, Pittsburg, Pa.
 Savage Fire Brick Co., Park bldg, Pittsburg, Pa.; Works: Johnstown, Pa.
 Sharon Fire Brick Co., Sharon, Pa.; Works: Wellsville, O.
 Solsson, Jos., Fire Brick Co., Connellsville, Pa.
 Stowe-Fuller Co., Cleveland, O.
 Stuart Fire Brick Co., 235 Water, Pittsburg, Pa.
 White, S. A., Lewis blk., Pittsburg, Pa.

Brick Mfrs. (Talc Fire)

Cohutta Talc Co., Dalton, Ga.

Brick Mfrs. (Vitrified Paving)

(Firms Indicated by a (*) Star also Manufacture Paving Blocks)

ALABAMA.

BESSEMER—Bessemer Fire Brick Co.
 BIRMINGHAM—Copeland Brick Co.
 Graves Shale Paving Brick Co.
 COALDALE—Southern Clay Mfg. Co.

CALIFORNIA.

LOS ANGELES—Los Angeles Pressed Brick Co., 203 S B'way
 Pacific Sandstone Brick Co., 203 S B'way
 South California Brick Co., 126 W 3d
 SAN FRANCISCO—Carnegie Brick & Pottery Co., Montgomery blk
 Clark, N. & Sons, 19 Spear

COLORADO.

DENVER—Boulder Shale Brick Ass'n
 Denver Sewer Pipe & Clay Co., Continental bldg
 Fairview Brick Co., Continental bldg
 Silicated Brick Co., Bank blk
 PUEBLO—Colorado Brick & Tile Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Anacostia Brick Co.
 Potomac Brick Co., 1413 G, N W

GEORGIA.

AUGUSTA—Georgla Vitrified Brick & Clay Co.
 ROME—Rome Brick Co.

ILLINOIS.

ABINGDON—Abingdon Paving Brick & Tile Co.
 ALBION—Albion Vitrified Brick Co.
 ALTON—Alton Paving, Building & Fire Brick Co.
 AVON—Avon Milling & Mfg. Co.
 BELLEVILLE—Ittner, Anthony Brick Co.
 CARLINVILLE—Moody, John & Son
 CHICAGO—Dee, Wm. E. Co., 114 E Quincy
 Purington Paving Brick Co., 138 Wash'n
 DANVILLE—Western Brick Co.
 EAST PEORIA—Carter, F. R.
 EDWARDSVILLE—Banner Clay Works
 GALESBURG—Purington Paving Brick Co.
 KANKAKEE—Kankakee Tile & Brick Co.
 LODA—Loda Brick & Tile Works
 MACOMB—Macomb Sewer Pipe Co.
 MATTOON—Mattoon Tile Co.
 MONMOUTH—Monmouth Mining & Mfg. Co.
 OLNEY—Olney Paving Brick & Tile Mfg. Co.
 OTTAWA—Ottawa Silica Co.
 QUINCY—Gem City Paving Brick Co.
 SPRINGFIELD—Springfield Paving Brick Co.
 STREATOR—*Barr Clay Co.
 Streator Clay Mfg. Co.
 *Streator Paving Brick Co. (Side Out, Repressed, etc.)

INDIANA.

ANDERSON—Indiana Brick Co.
 BRAZIL—Excelsior Clay Co.
 *Indiana Paving Brick & Block Co. (W. W. Winslow)
 BROOK—Brook Terra Cotta Tile & Brick Co.
 CLAY CITY—Clay City Brick & Clay Co.
 CLINTON—*Clinton Paving Brick Co.
 CRAWFORDSVILLE—*Poston Paving Brick Co.
 INDIANAPOLIS—*Indiana Paving Brick & Block Co. (W. W. Winslow)
 MARION—Marion Brick Works

MECCA—Mecca Clay Works
 TERRE HAUTE—National Drain Tile Co.
 Terre Haute Vitrified Brick Co.
 VEEDERSBURG—*Wabash Clay Co.

IOWA.

BOONE—*Boone Brick, Tile & Paving Co.
 BURLINGTON—Granite Brick Co.
 CLINTON—Iowa Granite Brick Co.
 DES MOINES—Des Moines Brick & Tile Co.
 *Flint Brick Co.
 Iowa Brick Mfg. Co.
 Iowa Pipe & Tile Co.
 GLADBROOK—Gethmann Brick Co. (The)
 GRAND JUNCTION—Goodwin Tile & Brick Co.
 MASON CITY—Mason City Brick & Tile Co.
 Mason City Clay Works (Inc.)
 OSKALOOSA—Oskaloosa Paving Brick Co.
 OTTUMWA—Ottumwa Brick & Construction Co.
 RIVERSIDE—Swift, H. L.
 SIOUX CITY—Sioux City Brick & Tile Works
 Sioux Paving Brick Co.

KANSAS.

ALTOONA—Altoona Vitrified Brick Co.
 ATCHISON—Atchison Paving Brick Co.
 CHANUTE—Chanute Cement & Clay Product Co.
 COFFEYVILLE—Coffeyville Shale Brick Co.
 Coffeyville Vitrified Brick & Tile Co.
 COLUMBUS—Columbus Vitrified Brick & Tile Co.
 IOLA—Iola Brick Co.
 Union Brick Co. (Repressed, etc.)
 LAWRENCE—Lawrence Vitrified Brick & Tile Co.
 MOUND VALLEY—Mound Valley Vitrified Nelson Vitrified Brick Co.
 PITTSBURG—Pittsburg Vitrified Paving & Building Brick Co.
 SALINA—Salina Vitrified Brick Co.
 TOPEKA—Capital City Vitrified Brick & Paving Co., 107 6th av
 WICHITA—Wichita Silux Brick Co.

KENTUCKY.

FIREBRICK—Portsmouth Granite & Brick Co.
 LOUISVILLE—Kentucky Vitrified Brick Co.
 PADUCAH—Katterjohn Brick Co.
 PRINCETON—Princeton Brick Co.

LOUISIANA.

NEW ORLEANS—Salmen Brick & Lumber Co., 712 Common

MARYLAND.

BALTIMORE—Baltimore Vitrified Clay Co., Abell bldg
 Burns & Russell Co., American bldg
 CUMBERLAND—*Queen City Brick & Tile Co.
 FREDERICK—Frederick Brick Works

MASSACHUSETTS.

SPRINGFIELD—Standard Brick Co., 310 Main

MICHIGAN.

DETROIT—Little, C. H. Co., Peninsular B'k bldg
 GRAND RAPIDS—Grand Rapids Consolidated Brick & Tilling Co., Innes av & Fuller
 Valley City Brick Co., Fuller & E Bridge
 SAGINAW—Michigan Paving Brick Co.
 Saginaw Paving Brick Co.
 Saginaw Sandstone Brick Co.

MINNESOTA.

MINNEAPOLIS—Martin Brck Co., 613 Hennepin av
 Minneapolis Paving & Cement Brick Co., New York Life bldg
 ST. PAUL—St. Paul Brick Co.

MISSOURI.

KANSAS CITY—Dickey, W. S. Clay Mfg. Co.
 K. C. Pav. Brick & Tile Co., K. & P. bldg
 Pittsburg Vitrified Paving & Building Brick Co., Postal Tel. bldg
 ST. JOSEPH—St. Joseph Pressed Brick Co.
 ST. LOUIS—Fehlgl, J. F. (Vitrified Brick), 3500 Hickory
 Hydraulic Press Brick Co., 705 Olive
 Laclede-Christy Clay Products Co.
 *St. Louis Clay Burning Co. (Paving).
 Union boul & De Giverville av
 St. Louis Pressed Brick Co., Cass av & Collins
 St. Louis Vitrified & Fire Brick Co., 105 N 7th

NEW JERSEY.

MORRISTOWN—Hanover Brick Co.
SOUTH AMBOY—Perrine, H. C. & Son
SOUTH RIVER—National Pyrogranite Co.
Pettit & Co.
TRENTON—Trenton Fire Brick Co.
WHIPPANY—Hanover Brick Co.
WOODBIDGE—Valentine, M. D. & Bro. Co.

NEW YORK.

BUFFALO—Lyth, A. & Sons Co.
CORNING—Brick, Terra Cotta & Tile Co.
ELMIRA—Elmira Shale Brick Co.
HORNELL—Preston Brick Co.
JAMESTOWN—Jamestown Shale Paving Brick Co.
JEWETTville—Ellicott Brick Co.
KINGSTON—Frederick Brick Co.
Hutton Co.
MECHANICSVILLE—Cary Brick Co.
Champlain Brick Co.
Ferris Paving Brick Co.
New England Brick Co.

NEW YORK CITY.**Boroughs of Manhattan & Bronx.**

NEW YORK—FLEMING & CO. (Adam-
antine Clinker), 253 B'way. (See adv.
index, end of book)
KREISCHER BRICK MFG. CO.,
119 E 23d. (See adv. index, end of
Person & Co., 160 5th av. book)
THOMAS, E. H. (Mfrs.' Agent),
1123 B'way

Borough of Richmond.

KREISCHERVILLE — KREISCHER
Brick Mfg. Co. (See adv. index, end
of book)

(End of New York City)

ROCHESTER—Rochester Brick & Tile Mfg.. Co.
Rochester German Brick & Tile Co.
Rochester Vulcanite Asphalt Paving Co.
SYRACUSE—Merrick, Chas. H.
UTICA—Utica Brick & Tile Co.
WATERTOWN—Watertown Pressed Brick Co.

NORTH CAROLINA.

ELIZABETH CITY—Elizabeth City Brick Works

NORTH DAKOTA.

DICKINSON—Dickinson Fire & Pressed Brick
Co.
GRAND FORKS—Red River Valley Brick Corp.
KENMARE—Kenmare Brick & Coal Co.

OHIO.

AKRON—Akron Vitrified Clay Mfg. Co.
Cooper Bros.
ALLIANCE—Auld, John & Sons
ATHENS—Athens Brick Co.
CANTON — *Metropolitan Paving Brick Co.
(Daily capacity, 300,000)
CINCINNATI — Blair, The J. M. Brick Co.,
Builders' & Traders' Ex
Clermont Brick Co., The Union Trust bldg
Westwood Brick Co., The Union Trust bldg
CLEVELAND—Cleveland Brick & Clay Co.,
Rockefeller bldg
Standard Brick Co., 4393 Bradley rd, S W
COLLINWOOD—*Collinwood-Deckman-Duty Co.
(Vitrified Sewer)
COLUMBUS—Ferris, Warren B. Brick Co. (The)
CONNEAUT—United Brick Co.
GLOSTER—*Wassall Brick Co. (Blocks)
LISBON—Excelsior Fire Clay Co.
LOGAN—*Logan Brick Mfg. Co. (Blocks)
*Logan Clay Product Co.
LOUISVILLE—Louisville Brick & Tile Co.
MARIETTA—Cisler, Thomas & Son
MASSILLON—*Massillon Stone & Fire Brick Co.
MINERAL CITY—Federal Clay Product Co.
Holden, C. E.
MOGADORE—Granite Clay Co.
NELSONVILLE—Hocking Valley Fire Clay Co.
NEW COMERTOWN—Novelty Brick & Coal
NILES—Niles Fire Brick Co.
PORTSMOUTH—Carlyle Paving Brick Co.
Peebles Paving Brick Co.
Portsmouth Paving Brick Co.
SCIOTOVILLE—Scioto Fire Brick Co. ("Union")
SOUTH ZANESVILLE—*South Zanesville Sewer
Pipe & Brick Co. ("Bolen's" Brown Granite
& "Halwood")
TORONTO—Toronto Fire Clay Co.
TRIMBLE—Trimble Brick Mfg. Co.
UHRICHSVILLE—Advance Fireclay Co.
Buckeye Fire Clay Co.
WELLSVILLE—Vulcan Clay & Brick Co.

WICKLIFFE—*Kline, Jno. Brick Co. ("Buck-
eye"), Capacity, 5,000,000)
WOOSTER—Wooster Shale Brick Works
YOUNGSTOWN—Bessemer Limestone Co.
ZANESVILLE—Harris Brick Co., 28 N 2d
*Townsend, T. B. Brick & Contracting Co.

OKLAHOMA.

BARTLESVILLE — Bartlesville Vitrified Brick
Co.

ENID—Enid Vitrified Brick & Tile Co.
McALESTER—McAlester Brick Co.
MUSKOGEE—Muskogee Vitrified Brick Co.
TULSA—Tulsa Vitrified Brick Co.

OREGON.

PORTLAND—Diamond Brick Co., Ankeny st
Dock

PENNSYLVANIA.

ALLENTOWN—Allentown Paving Brick Co.
BOLIVAR—Lincoln Fire Brick & Shape Co.
CAMERON—Penn Vitrified Brick Mfg. Co.
CARNEGIE—Rosslyn Brick Co. (Foundation &
Sewer)
CLEARFIELD—Clearfield Clay Working Co.
Clearfield Fire Brick Co.
CONNELLVILLE—Solsson, Jos., Fire Brick
Co.
DUBOIS—Dubois Clay Mfg. Co.
Dubois & Butler Brick Co.
FALLSTON—Fallston Fire Clay Co.
HAMBURG—Hamburg Vitrified Brick Co.
HARMARVILLE—Kountz Bros. Co.
JOHNSONBURG—*Johnsonburg Vitrified Brick
Co.
JOHNSTOWN—Haws, A. J. & Sons
Savage Fire Brick Co.
KITTANNING—Kittanning Brick & Fire Clay
Kittanning Clay Mfg. Co.
KUSHEQUA—Kushequa Brick Co.
LAYTON—Layton Fire Clay Co.
LOCK HAVEN—Queen's Run Fire Brick Co.
OSCEOLA MILLS—Osceola Silica & Fire Brick
Co.
PATTON—Patton Clay Mfg. Co.
PAWLING—McAvoy Vitrified Brick Co.
PHILADELPHIA—Clay Product Supply Co.,
1332 Walnut
Hamburg Vitrified Brick Co., Land Title bldg
*Mack Mfg. Co., Land Title bldg
PINE GROVE FURNACE—Fuller Brick & Slate Co.
PITTSBURG—*American Sewer Pipe Co., Bes-
semer bldg

Dunbar Fire Brick Co., Arrott bldg
Mayer, C. P. Brick Co.
Penna. Clay Co., 421 Wood
Pittsburg-Buffalo Co., Fire bldg
Savage Fire Brick Co., Park bldg
Standard Fire Brick Co., Empire bldg
Union Brick Co. (Ltd.), Westinghouse bldg
West Virginia Fire Clay Mfg. Co.
PUNXSUTAWNEY—Nordstrom, Mrs. M. J.
READING—Montello Brick Works
Reading Shale Brick Co.
ROCHESTER—Miller Brick Co.
SCRANTON—Federal Granite Brick Co.
Interstate Conduit & Brick Co.
Scranton Vitrified Brick & Tile Mfg. Co.
SHARON—Sharon Fire Brick Co.
SHAWMUT—Shawmut Brick Works
WILLIAMSPORT—*Guise Brick & Stone Co.
WINDBER—Kelley, Wm. P. Brick Co.
YOUNGSVILLE—Standard Shale Brick Co.

SOUTH CAROLINA.

KILLIAN—Killian Fire Brick Co.

TENNESSEE.

CHATTANOOGA—Southern Clay Mfg. Co.
KNOXVILLE—Knoxville Brick Co.
South Knoxville Brick Co.

TEXAS.

ATHENS—Athens Fire Brick Co.
DALLAS—Harry, J. M. Brick Co.
HOUSTON—Butler, M.
SAN ANTONIO—Mackey Brick & Tile Co.
THURBER—Texas & Pacific Coal Co.

VIRGINIA.

CHILHOWIE—Southern Clay Mfg. Co.
ROANOKE—Adams, Payne & Gleaves (Inc.)

WASHINGTON.

LITTLE FALLS—Little Falls Fire Clay Co.
SEATTLE—Denny-Renton Clay & Coal Co.
Harper Brick & Tile Co.
Pontiac Brick & Tile Co.
Seattle Brick & Tile Co.
Steele & Steele Brick & Tile Co.
SPOKANE—*Washington Brick, Lime & Mfg.
Co., 1st av & Stevens

WEST VIRGINIA.

CLARKSBURG—Clarksburg Brick Works
HURRICANE—McCallister, W. H.
NEW CUMBERLAND—Acme Fire Clay Works
Claymont Brick Works
Mack Mfg. Co.
WHEELING—Suburban Brick Co.

WISCONSIN.

MANITOWOC—Manitowoc Clay Product Co.
MILWAUKEE—Burnham Bros., 525 Howell av
Kraatz, Chas. Brick Co., 14 Grand av
Standard Brick Co., 496 Clement av

Brick Mfrs. (White)

CHESTNUT RIDGE WHITE BRICK
Co., Kunkletown, Pa., & 121 W 42d, New
York. (See adv. index, end of book)
Dickey, W. S. Clay Mfg. Co. (Standard Only),
New York Life bldg, Kansas City, Mo.
Ferris, Warren B. Brick Co. (The), Columbus, O.
FISKE & COMPANY (Inc.) (Also Orna-
mental), 25 Arch, Boston, Mass., & Flat
Iron bldg, New York. (See adv. index, end
of book)
Florida White Pressed Brick Co., Jacksonville,
Fla.
*Gladding, McBean & Co. (Also Ornamental),
Crocker bldg, San Francisco, Cal. Works,
Lincoln, Cal.
*Golden Pressed & Fire Brick Co. (Also Orna-
mental), 431 15th, Denver, Col.
Harbison-Walker Refractories Co., Farmers'
B'k bldg, Pittsburg, Pa., & 1133 B'way,
New York
Houston White Brick Co., Houston, Tex.
KREISCHER BRICK MFG. CO., 119
E 23d, New York. Works: Kreischerville,
S. I., N. Y. (See adv. index, end of book)
*Los Angeles Pressed Brick Co. (Also Orna-
mental), Los Angeles, Cal.
Mount Holly Brick & Clay Co. (Vitrified White
& Light Colored), Harrisburg, Pa.
*Powhatan Clay Mfg. Co. (Cream White in
Standard Roman, Norman & Ornamental
Shapes), Richmond, Va., & 1123 B'way,
New York; Works: Clayville, Va.
*SAYRE & FISHER CO. (also Orna-
mental), 261 B'way, New York. Works:
Sayreville, N. J. (See adv. Front Inside
Cover)

Brick (Stove Lining)

(See Stove Linings)

***Brick & Cement Waterproof-
ings**

CABOT, SAMUEL, 141 Milk, Boston,
Mass. (See adv. index & branch offices, end
of book)

Brick & Stone Preservative

CABOT, SAMUEL ("Cabot's"), 141
Milk, Boston, Mass., & 28 Dearborn av.,
Chicago, Ill. (See adv. index & branch of-
fices, end of book)
Parker, Preston & Co. (Inc.), Norwich, Conn.

Bricklayers

(See Builders, Contracting)

Bridge Builders (Lift)

(See Bridges, Bascule)

**Bridge Builders (Re-Enforced
Concrete)**

(See Concrete Steel Construction, Reinforced)

Bridge Builders (Steel)

(See firms designated with a Star (*) under
Steel Structural Work)

Bridge Builders (Stone)

(See Contractors, General)

Bridge Caissons

(See also Caissons, Sheet Iron)

SCAIFE, WM. B. & SONS CO., 221 1st,
av, Pittsburg, Pa. (See adv. index, end of
book)



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TROWBRIDGE & LIVINGSTON, ARCHITECTS

ART, DECORATIVE, ARCHITECTURAL, SCULPTURAL, MONUMENTAL and COLLOSAL BRONZE

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ENTRANCES, MARQUISE, CANOPIES
SIGNS, TABLETS, LAMP STANDARDS
STATUARY, WINDOWS, DOORS
ETC., ETC., ETC.

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GORHAM STANDARD



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MAIN OFFICES

FOUNDRY AND WORKS

PROVIDENCE, R. I.

(SEE PRECEDING PAGE)

Bridge Erecting Engines

(See Engines, Bridge Erecting)

Bridge Foundations

(See also Caisson Foundations)

Blome, R. S. Co., Unity bldg., Chicago, Ill.
Cowing Engineering Co., Citizens bldg., Cleveland, O.
Cranford Paving Co., Home Life bldg., Wash'n, D. C.
Culicu-Friestedt Co., Tribune bldg., Chicago, Ill.
Foundation Co. (Engineers & Contractors, Pneumatic, etc.), 115 B'way, New York
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Syracuse Bridge Co. (Concrete, etc.), Syracuse, N. Y.

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(See Contractors, General; also Builders, Contracting)

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Albree, Chester B. Iron Works, Pittsburg, Pa.
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Belmont Iron Works, 22d & Wash'n av, Philadelphia, Pa.
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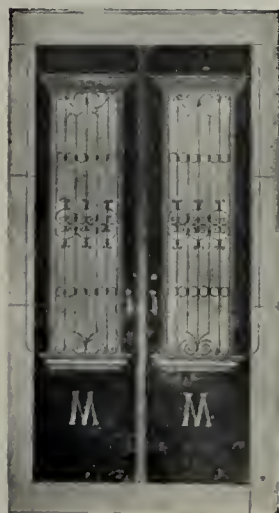
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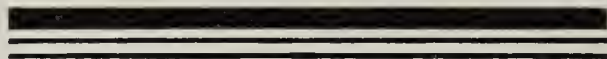


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HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Brooms (Rattan)

Indianapolis Brush & Broom Mfg. Co. (Capitol Rattan Mixer), 30 Brush, Indianapolis, Ind.

OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Zelnicker, Walter A. Supply Co. (also Bamboo & Tampico Fibre), 408 N 4th, St. Louis, Mo.

***Brooms (Street & Stable)**

CINCINNATI MFG. CO., 1243 W. 6th, Cincinnati, O. (See adv. index, end of book)

OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

Brooms (Street Sweeping)

Edison Mfg. Co., 257 Atlantic av, Boston, Mass.

Harrah & Stewart Mfg. Co., Des Moines, Ia.

Hoass & Co., 509 E 18th, New York

OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Warth, Jno. F. & Bro. 134 4th pl, B'klyn, N. Y.

Zelnicker, Walter A. Supply Co. (Heavy Rattan, Tampico & Fibre), St. Louis, Mo.

Brooms & Brushes (Track)

Lay, Jos. & Co., Ridgeville, Ind.

Muiholland, William, 80 Lafayette, New York

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Pilley Packing & Flue Brush Mfg. Co., 606 S 3d, St. Louis, Mo.

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)

Syracuse Broom Co., Syracuse, N. Y.

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Brushes (Boiler Flue)

(See Cleaners, Brushes, Boiler Flue & Tube)

***Brushes (Bran & Shorts)**

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Brushes (Carbon)

American Carbon & Battery Co., East St. Louis, Ill.

Baylis Company, 140 Washington, New York

Eastern Carbon Works, Jersey City, N. J.

Electrical & Mechanical Development Co. ("Hiko"), Asbury Park, N. J.

French Battery & Carbon Co. ("Fabius Henrion," Imported), Madison, Wis.

Hart & Co. ("Langleben"), Fostoria, O.

Le Valley Vitae Carbon Brush Co., 407 E 177th, New York

National Carbon Co. ("Columbia," "Partridge"), Cleveland, O.

Speer Carbon Co. (Self Lubricating), St. Marys, Pa.

Stanley & Patterson ("Le Carbonne," Imported), 23 Murray, New York

United States Carbon Co. ("Copley Senior"), 240 E 36th, New York

Brushes (Copper)

(See Brushes, Sheet Metal)

Brushes (Dynamo & Motor)

(See Brushes, Carbon; also Brushes, Graphite; also Brushes, Woven Wire; also Brushes, Sheet Metal.)

Brushes (Fibre, Vegetable)

Ox Fibre Brush Co. (Wooden Back & Staple Driven), Frederick, Md.

Brushes (Floor Polishing)

Chicago Wood Finishing Co., 261 Elston av, Chicago, Ill.

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Galton Mfg. Co., Cleveland, O.

Herr, Jno. Floor Co., 2110 Olive, St. Louis, Mo.

WOOD MOSAIC CO., 315 5th av, New York

WOOD-MOSAIC FLOORING & LUMBER Co.; Main Office & Factory: Rochester, N. Y. (See adv. index & branch offices, end of book)

***Brushes (Flue)**

CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)

OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

Brushes (Foundry, Machine & Factory)

American Wire Brush Co. (Wire, Bristle & Fibre), 277 Greenwich, New York

Bradley & Smith, 251 Pearl, New York

Brand, S. H. & Co. (Wire & Bristle), 99 W Monroe, Chicago, Ill.

Bromwell Brush & Wire Goods Co., Cincinnati, Ohio

Brown Cotton Gin Co., New London, Conn.

Buchel Machine Works (Steel Wire for Cleaning Filter Presses, Centrifugals, Machinery, etc.), 827 Conti, New Orleans, La.

CINCINNATI MFG. CO. (Steel), 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

Dennin's Sons, 6th av & 20th, Troy, N. Y.

Felton, S. A. & Son Co., Manchester, N. H.

Flint, Warren F. (Steel), 103 Merrimac, Boston, Mass.

Foot Mfg. Co., 36 Germania av, Jersey City, N. J.

Galton Mfg. Co., Cleveland, O.

Goode, Walter P. Co., North Boston, Mass.

Heilman Machine Works, Evansville, Ind.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Indianapolis Brush & Broom Mfg. Co. (Rattan Mixed), 30 Brush, Indianapolis, Ind.

Kari, N. J., 168 N Water, Rochester, N. Y.

Lay, Joseph & Co., Ridgeville, Ind.

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Mason Brush Works, Worcester, Mass.
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Murphy, Leavens & Co., 28 Exchange, Boston, Mass.

OSBORN MFG. CO. (Railroad Brushes), 5401 Hamilton av, N. E., Cleveland, O.
(See adv. index, end of book)

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Pilley Packing & Fine Brush Mfg. Co., 606 S 3d, St. Louis, Mo.

Pollock Brush Co., Easton, Pa.

Rice Mfg. Co. (Wire), New Durham, N. H.

Riddiford Bros. (Specialty Machine Brushes), 160 5th av, Chicago, Ill.

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Thull, Charles D., 150 N 3d, Phila., Pa.

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Warner, Wm. E. & Co., 136 Centre, New York

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Baumruk Fountain Brush Co., 602 W 26th, Chicago, Ill.

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Speer Carbon Co., St. Marys, Pa.

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Pilley Packing & Fine Brush Mfg. Co. (Wire), 606 S 3d, St. Louis, Mo.

Brushes (Marking)

(See Brushes, Stencil)

*Brushes (Mill)

HEARTLEY MACHINE. VARIETY Iron & Tool Works (Mill Cloth Cleaning Brushes), Toledo, O. (See adv. index, end of book)

Brushes (Paint, Varnish, Etc.)

Bradley & Smith, 251 Pearl, New York

Bromwell Brush & Wire Goods Co., Cincinnati, Ohio

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Dennison, Owen & Sons, Lansingburg, N. Y.

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Dilley, Wm., 124 Clark, Chicago, Ill.

East Columbia Brush Co., Columbia, Pa.

Felton, S. A. & Son Co., Manchester, N. H.

Flynn Bros., 5th & 11th av, Troy, N. Y.

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Gerts, Lombard & Co., 208 Randolph, Chicago, Ill.

Guinder, Chas. G. & Co., Baltimore, Md.

Hanlon & Goodman, 270 Pearl, New York

Looby, Wm. H., Centerbrook, Conn.

Lucas, John & Co., 4th & Race, Phila., Pa.

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Miles Bros. & Co., 102 Fulton, New York

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Pushee, Jno. C. & Sons, Randolph & Harrison av, Boston, Mass.

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Rosenthal, H. & Bro., 420 W B'way, New York

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Smith, J. Finley & Son, 117 Chambers, New York

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True Bros., Portland, Me.

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United Brush Supply Co., 238 Arch, Phila., Pa.

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Whiting, Jno. L.-J. J. Adams Co., 690 Harrison, Boston, Mass.

Wolfe Brush Co., 511 Wood, Pittsburg, Pa.

Wooster Brush Works, Wooster, O.

Brushes (Platers', Polishers', Etc.)

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Dixon, Wm. (Inc.) (Wire, Bristle, etc., "Tampico" Goat Hair), 39 John, New York

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Eureka Tempered Copper Works, North East, Pa.

Galton Mfg. Co., Cleveland, O.

Jones & Gross Elec. Co., 64 Vesey, New York

Ohio Elec. Specialty Mfg. Co., Troy, O.

Perfection Supply Co., 621 B'way, New York

Phila. Electrical & Mfg. Co., 2011 Market, Phila., Pa.

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Galton Mfg. Co., Cleveland, O.

OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

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Dean, Hy. E. & Co., Worcester, Mass

Bromwell Co., Cincinnati, O.

Galton Mfg. Co., Cleveland, O.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

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Stortz, John & Son, 210 Vine, Phila., Pa.

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Hanlon & Goodman, 270 Pearl, New York

Langill Fountain Pen & Brush Co. ("Langill" Fountain Pen & Brush), 19 Front, New York

Martin's, J. M. C. Sons, 116 Fulton, New York

Mitchell, E., 241 Centre, New York

OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

Smith, J. F. & Son, 117 Chambers, New York

Universal Fountain Brush Co. ("Ideal" Fountain), 100 E 129th, New York

Whiting, John L.-J. J. Adams Co., 690 Harrison, Boston, Mass.

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OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

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Becker Bros. ("Perfection"), 68 W Washington, Chicago, Ill.

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Galton Mfg. Co., Cleveland, O.

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Gough, Wm. H. ("Younglove," "Gere"), Syracuse, N. Y.

Hart & Co., Postoria, O.

McMurtry, Jas. E. & Co., 749 N Park av, Chicago, Ill.

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Perfection Dynamo Brush Co., 35 S Clark, Chicago, Ill.

Perfection Supply Co. (Dynamo), 621 B'way, New York

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Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

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Insley Iron Works (Controllable Center Dump), Indianapolis, Ind.

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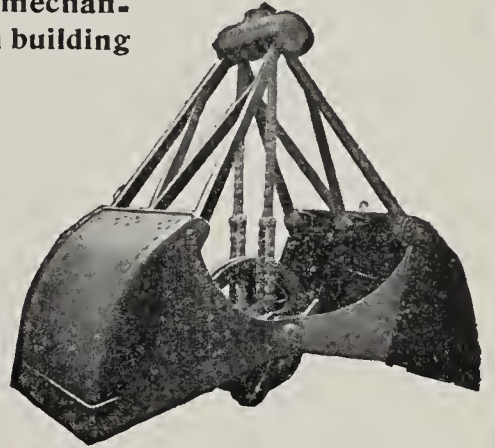
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Davis, F. M. Iron Works Co., Denver, Colo.

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Western Pipe & Steel Co., Los Angeles, Cal.

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Buckets (Dredging & Excavating)

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Cleveland Iron Works Co., Cleveland, O.

HAYWARD CO., THE, 50 Church, New York. (See adv. index, end of book)

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KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

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Buckets (Elevator)

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Robins Conveying Belt Co., Passaic, N. J.

Sackett, H. B. Screen & Chute Co., 4210 State, Chicago, Ill.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Schmahl, Jacob, 26 Lloyd, Buffalo, N. Y.

Skillin & Richards Mfg. Co., 127 Fulton, Chicago, Ill.

Specialty Engineering Co., 1908 E Westmoreland, Phila., P't.

Standard Sand & Machine Co., 5157 St. Clair, Cleveland, O.

Stephens-Adamson Mfg. Co. ("S. A."), Aurora, Ill.

Taylor Iron & Steel Co., High Bridge, N. J.

Union Iron Works, Hoboken, N. J.

Union Iron Works (Inc.), Spokane, Wash.

WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

WELLER MFG. CO., 124 E. North av, Chicago, Ill. (See adv. index, end of book)

Buckets (Fibre)

(See Pails, Fibre)

Buckets (Fire)

Atlantic Stamping Co. (Galvanized), Rochester, N. Y.

Cordley & Hayes (Paper), 172 Duane, New York

Fairfield Rubber Co., Fairfield, Conn.

Geuder, Paeschke & Frey Co. (Galvanized Iron), Milwaukee, Wis.

Goodyear Rubber Co. (Rubber), 787 B'way, New York

Gutta Percha & Rubber Mfg. Co. (Rubber), 128 Duane, New York

Hayward, S. F. & Co., 39 Park pl., New York

Hodgman Rubber Co. (Rubber), 806 B'way, New York

Hunt & Dorman Mfg. Co., 21 Bright, Cleveland, Ohio

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.

Mineralized Rubber Co. (Rubber), 18 Cliff, New York

Northern Fire Apparatus Co. ("Waggoner" Sanitary), Minneapolis, Minn.

Safety Fire Extinguisher Co., 29 W 42d, New York

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Buckets (Foundry)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd, N. W., Cleveland, O. (See adv. index, end of book)

Buckets (Galvanized Iron)

(See Pails, Galvanized Iron)

*Buckets (Gold Dredging)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Buckets (Grab)

Andresen-Evans Co., Monadnock blk, Chicago, Ill.

BROWN HOISTING MACHINERY CO. ("Brownhoist"), St. Clair, N. E., Cleveland, O. (See adv. index & branch offices, end of book)

Browning Engineering Co. (Automatic Square Type), Cleveland, O.

JEFFREY MFG. CO. (Self Filling), Columbus, O. (See adv. index & branch offices, end of book)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

Buckets (Grease)

Gcm Mfg. Co. ("Gcm" Brazed Steel), Spruce av nr 33d, Pittsburg, Pa.

Lane, C. L. ("Wooden"), E Swanzey, N. H.

*Buckets (Hoisting)

HAYWARD CO., THE, 50 Church, New York. (See adv. index, end of book)

Buckets (Hoisting & Dumping)

(See Tubs, Self-Dumping)

Buckets (Orange Peel)

Browning Engineering Co., Cleveland, O.
CARLIN'S, THOS. SONS CO., 1610
 River av (North Side), Pittsburg, Pa. (See
 adv. index, end of book)
DOBBIE FOUNDRY & MACHINE CO.,
 Main Office and Works, Niagara Falls, N. Y.
 (See adv. index & branch offices, end of book)
HAYWARD CO., THE, (Crushed
 Stone Handling), 50 Church, New York.
 (See adv. index, end of book)
 Hough, Wm. B. Co. ("Hercules"), Monadnock
 bldg, Chicago, Ill.
 Interstate Eng. Co., Bedford, O.
 Kiesler Co. ("Kiesler"), 68 Pratt, Chicago, Ill.
 McMyler Mfg. Co., 1799 Columbus rd., Cleve-
 land, O. Works, Warren, O.
MARYLAND EQUIPMENT & SUPPLY
 Co., Calvert & Fayette, Baltimore, Md.
 (See adv. index, end of book)
MEAD-MORRISON MFG. CO. (Orange
 Peel Grab), Cambridge (Boston), Mass., &
 11 B'way, New York. (See adv. index &
 branch offices, end of book)
 Smith, Theo. & Sons Co., ft of Essex, Jersey
 City, N. J.
 Wellman-Seaver-Morgan Co., Cleveland, O.
 Williams, G. H. Co., 1513 Rockefeller bldg,
 Cleveland, O.

Buckets (Ore)

(See Buckets, Coal & Ore)

Buckets (Pump)

Cleveland Galvanized Works, 392 Cooper, Cleve-
 land, O.
 Continntal Rubber Works (Rubber), Eric, Pa.
 Cronk & Carrier Mfg. Co. (Chain Pumps), El-
 mira, N. Y.
DIAMOND RUBBER CO. (Rubber),
 Akron, O. (See adv. index, end of book)
 Goodrich, B. F. Co. (Rubber), Akron, O.
 Myers, F. E. & Bro., Ashland, O.
PENNSYLVANIA RUBBER CO. (Rub-
 ber), Jeannette, Pa. (See adv. index &
 branch offices, end of book)
 Republic Rubber Co., Youngstown, O.
 Torrent Pump Co., Sebring, O.
 Union Mfg. Co., New Britain, Conn.
WYCKOFF, A. & SON CO. (Chain
 Pumps & Buckets), Elmira, N. Y. (See adv.
 index, end of book)

***Buckets (Sand Handling)**

HAYWARD CO., THE, 50 Church,
 New York. (See adv. index, end of book)

Buckets (Sap)

Briscoe Mfg. Co. ("O-Rib-O" Galvanized), De-
 troit, Mich.

Buckets (Scoop)

(See Buckets, Dredging & Excavating)

***Buckets (Scraper, Clam Shell)**

HAYWARD CO., THE, 50 Church,
 New York. (See adv. index, end of book)

Buckets (Scraper, Excavator)

HAYWARD CO., THE, 50 Church,
 New York. (See adv. index, end of book)
 Page, John W. ("Page" for Earth, Rock,
 Gravel, etc.), Security bldg, Chicago, Ill.

Buckets (Self-Dumping)

Focht's, Geo. Sons, Hoboken, N. J.
 Kilbourne & Jacobs Mfg. Co. ("Surelock"
 Steel), Columbus, O.
KILGORE-PETELER CO., Minneap-
 olis, Minn. (See adv. index, end of book)
 Ohio Ceramic Engineering Co., Cleveland, O.
 Williams, G. H. Co., 1513 Rockefeller bldg,
 Cleveland, O.

**Buckets (Self-Loading Power
Scraper)**

Page, John W. ("Page" Automatic Dumping),
 Security bldg, Chicago, Ill.

Buckets (Sewer)

Akron Cultivator Co., Akron, O.
 Anderson, W. H. Tool & Supply Co., 14 Ma-
 comb, Detroit, Mich.
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
 Hornhorst, Joseph Co., Cincinnati, O.
 Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 National Enameling & Stamping Co., 374 B'way,
 New York, & St. Louis, Mo.
 Potter Mfg. Co., Indianapolis, Ind.
 Stuebner, G. L. Iron Works, 12th & Vernon av,
 Long Island City, N. Y.
 Stoutenborough, X., 277 Pearl, New York
 Syracuse Chilled Plow Co. (Steel), Syracuse,
 N. Y.

***Buckets (Shoveling)**

BROWN HOISTING MACHINERY CO.
 ("Brownhoist" for Limestone, Coal, Ore,
 Clay, etc.), St. Clair, N. E. Cleveland, O.
 (See adv. index & branch offices, end of book)

***Buckets (Slag)**

HAYWARD CO., THE, 50 Church,
 New York. (See adv. index, end of book)

Buckets (Soil, for Jails)

Crown Iron Works Co., Minneapolis, Minn.

***Buckets (Turn Over)**

HAYWARD CO., THE, 50 Church,
 New York. (See adv. index, end of book)

***Buckets (Well)**

EDWARDS MFG. CO. (Galvanized),
 545-565 Eggleston av, Cincinnati, O. (See
 adv. index, end of book)

Buckets (Water)

(See Pails, Galvanized Iron)

Buckets & Pails (Collapsible)

Abercrombie & Fitch Co., 57 Reade, New York
 Duplex Folding Pail Co., 422 West 14th, New
 York
 Goodrich, B. F. Co., Akron, O.
 Goodyear Rubber Co., 787 Broadway, New York
 Gutta Percha & Rubber Mfg. Co., 126 Duane,
 New York
 Hayward, S. F. & Co. (Folding Buckets), 39
 Park pl., New York
 Hodgman Rubber Co., 806 Broadway, New York
 Mineralized Rubber Co., 18 Cliff, New York
 National India Rubber Co., Bristol, R. I.
 Safety Fire Extinguisher Co., 29 West 42d,
 New York

***Buckles (Back Band)**

STANLEY WORKS ("Samson" &
 "Stanley"), New Britain, Conn. (See adv.
 index & branch offices, end of book)

Buckles (Bale)

ACME STEEL GOODS CO., 2834-2840
 Archer av, Chicago, Ill.; 147 Lafayette, New
 York. (See adv. index, end of book)
 Baling Tie Buckle Co. ("Star" Baling Tie
 Buckles), 1929 Harvard, Cleveland, O.
CARY MFG. CO., 19 Roosevelt, New
 York. (See adv. index, end of book)
 Oliver Iron & Steel Co. (Cotton Tie), Pittsburg,
 Pa.
SHARON STEEL HOOP CO. (Cotton
 Tie, etc.), Sharon, Pa. (See adv. index &
 branch offices, end of book)

Buckles (Belt)

Conlan, Bernard, Newark, N. J.
 Havell Mfg. Co., Newark, N. J.
 O'Neill & O'Neill, Newark, N. J.
 Poeter, E. & Co., Newark, N. J.
 Smith & Griggs Mfg. Co., Waterbury, Conn.
 Waterbury Buckle Co., Waterbury, Conn.
 Waterbury Button Co., Waterbury, Conn.

Buckles (Wire)

North & Judd Mfg. Co. ("Anchor" Brand), New
 Britain, Conn.
 Spencer Wire Co., Worcester, Mass.
 Wire Novelty Mfg. Co., New Britain, Conn.

**Buddles or Slime Tables (Re-
volving)**

Mine & Smelter Supply Co. (Wilfley), Denver,
 Colo., (Wilfley).
 Power & Mining Machinery Co., Cudahy, Wis.

Buffers (Board)

Harrington Cutlery Co. ("Dexter"), Southbridge,
 Mass.

Buffers (Car)

Gould Coupler Co., 345 5th av, New York;
 Rookery bldg, Chicago, Ill.; Works: De-
 pcw, N. Y.
 National Car Coupler Co. ("National" Plat-
 form & "Hinson" Friction), Monadnock blk,
 Chicago, Ill. Works, Attica, Ind.
 Railway Appliances Co., Old Colony bldg, Chi-
 cago, Ill.

Buffers (Electric Hand)

Stow Mfg. Co., Binghamton, N. Y.

Buffers (Rubber)

BOSTON BELTING CO., 260 Devon-
 shire, Boston, Mass. (See adv. index &
 branch offices, end of book)
 Goodrich, B. F. Co., Akron, O.
 Gutta Percha & Rubber Mfg. Co., 126 Duane,
 New York
 National India Rubber Co., Bristol, R. I.
PENNSYLVANIA RUBBER CO. (Auto-
 mobile, Carriage, etc.), Jeannette, Pa. (See
 adv. index & branch offices, end of book)
 Revere Rubber Co., Boston, Mass.

Buffing Compositions

(See also Metal Polish)

Egyptian Lacquer Mfg. Co., 125 Front, New
 York
 Hanson & Van Winke Co. ("Acme"), Newark,
 N. J.
 Matchless Metal Polish Co. ("Diamond" for all
 Metals, Hard Rubber, etc.), 151 Varick,
 New York
 New York Buff Co., 85 Centre, New York
 Zucker & Leavett & Loeb Co. ("Victor"), 516
 W 25th, New York

Buggies (Buhr-Stones)

Hasbrouck, J. J. & Co. ("Esopus"), Office &
 Quarries, New Paltz, N. Y.

Buggies (Charging)

Kilbourne & Jacobs Mfg. Co. (Steel Coke), Co-
 lumbus, O.
 Pennsylvania Engineering Works, New Castle,
 Pa.

Buggies (Coke & Ore)

Archer Iron Works Co., 739 Flrst Nat'l Bank
 bldg, Chicago, Ill.
 Sheffield Car Co., Three Rivers, Mich.

**Buggies for Structural Steel,
Etc.**

Bethlehem Foundry & Machine Co., Front,
 South Bethlehem, Pa.

Buggies (Wire)

(See Trucks, Wire Mill; also Cars, Plate &
 Sheet Mill)

Buggy (Armature)

American General Engineering Co. ("A. G.
 E."), 253 B'way, New York
 Columbia Machine Works & Malleable Iron Co.
 ("Columbia"), 269 Chestnut, Brooklyn,
 N. Y.

**When writing to firms listed
 in this book please mention
 HENDRICKS'
 COMMERCIAL REGISTER**

DOYLE & COMPANY

Contractors and Builders

1519 and 1521 Sansom Street

PHILADELPHIA, PA.



Jacob A. Zimmermann,

MASON, BUILDER

AND

General Contractor,

505 Fifth Ave.,

NEW YORK.

Builders (Contracting)

(See also Contractors, General)

NOTE—The difficulty in separating Builders from Journeymen, especially in small towns where a man is a builder for one operation and returns to the bench when it is completed; and the fact that they are not generally rated, makes this a most unsatisfactory list to compile. Thorough revision has been made from the best sources obtainable and the list is as correct as such a line can be, considering the wide field covered.

ALABAMA.

BIRMINGHAM—Evans Bros. Construction Co., 2310 Avenue F
Stockmar, H. A., 2200 Avenue A
Thompson, T. C. & Bros., Title Guarantee
HUNTSVILLE—Hutchens, Chas. E. bldg.
MOBILE—Brandon & Son
Chamblin, G. A., 254 N Royal
Fonde, Ray, 160 N Royal
Interstate Construction Co.
Jett Bros. Contracting Co.
Lee, W. P., 67 St. Michael
Moore, R. & Co.
Smith, Michael
Ward, E. E., 204 S Broad
MONTGOMERY—Blair, Algernon, Hill bldg.
Cook & Laurie Contracting Co. (Large), 212 N Lawrence
Hodgson, Jas.
Hodgson & Hannon, 113 Sayre
Hugger Bros., 18½ S Perry
Riverside Brick Co.

ARIZONA TERRITORY.

PHOENIX—O'Connell & Cottroll (Brick)
TUCSON—Henry, Benj. Co.
Monier, Q.

ARKANSAS.

FORT SMITH—May, W. F. & Co., 601 S 13th
O'Neil, L. S.
Paine, R. L., 2403 Tiles
Reddick, T. T., 2701 Kinkhead
Schleuter, Fred, 702 N 18th
Truschel, Jacob, 901 N 14th
HOT SPRINGS—Brack, J. D.
Mills, Gibson (Stone)
LITTLE ROCK—Campbell, T. F., 2319 Center
Crawford, W. S. & Bro.
Drah, D.
Hallum, W. H. & Son
Holstege, B.
Odom, John S., 1610 Jones
Phillips, Jas.
Schay, Chas. J.
Stewart & Schmelzer
Wendler, M. O.
PARAGOULD—McDonald, W. J.
PINE BLUFF—Bruce, M. M.
Dutton, John
Holton, W. S.
Lane, R. W.
Owens, Newton
VAN BUREN—Allen, R. B.

CALIFORNIA.

ALAMEDA—Henderlong, C. A.
MacRae, Chas. W., 2315 Encinal
BERKELEY—Estey, Fred.
Martin, Robt.
Sheridan, Phil.
GRASS VALLEY—Body, W. C. D. & Son
LODI—Young, W. A. Lumber Co. (Large)
LOS ANGELES—Aaron, D. W., 411 S Main
Acme Building Co., Stimson bldg.
Anderson, W. J. & Son, 408 S Spring
Anslyn, C. M. & Sons, 1620 Wall
Artherrholt, O. M., 218 B'dway
Ashbridge, T. A. (Brick), 1020 W 1st
Ashby Building Co., 256 S Spring
Atkinson, J. F., Harvard bldg
Black, A. W., 746 S Main
Beer & Beer, 438 S Chicago
Bottema Bros., 315 B'dway
Brainerd, H. J., Chamber of Commerce
Brandt & Rhodes, Byrne bldg
Bryant, Oliver C., 1503 Magnolia av
Builders Exchange, Stimson bldg
Butcher, Jas. M., 2309 S Hoover
Cady, W. C. (Brick), 914 E 39th
Carr, G., 416 W av 56
Carter, J. A., 257 S Spring
Coast Construction Co., 411 S Main
Connor & McCann, 3120 Manitov av
Co-Operative Home Builders' Assn., Sevrance bldg

Cossar, Wm. C. (Brick), 1009 Bridge
Cowper, H. M., 106 W 3rd
Crandall, W. N., 310 Stimson
Crowell, Weymouth, Pacific Elec. bldg
Daniels, J. A., 1620 Palo Alto
Dawson, J. B., Pacific Elec. bldg
Dennis, S. B., 922 Court Circle
Drew, R. T. & Son, 1804 Pacific av
Engstrum, F. O. Co. (Brick), E 5th & Colyton
Grannis, R. W., 321 W 16th
Greenamyer, C. E., 129 W 2nd
Gribling, A. L., 207 New High
Harbou, George, 224 S Spring
Haupt, Paul, 315 S B'dway
Hicks, W. A., 203 B'dway
Hood, W. G., 228 W 4th
Hopper, E. L. & Son, Laughlin bldg
Houck & Slosser, 341 E Vernon av
Hughes & LeVere, 215 Concord
Hull, A. M. & Son, 3040 Lanfranco
Hurwitz, M. Bryson bldg
Jackson, W. H., 130 S B'dway
Jones, A. S., 1102 Temple
Kendall, Edward, 256 S pring
Knerr, H. E., Douglas bldg
Knerr, H. E. (Brick), Douglas bldg
Kubach, C. J. Co., Pacific Electric bldg
Larkins, W. P., S San Pedro
Leaver, Guenthart & Co., 608 S Main
Long, J. R., 256 S Main
Los Angeles Building Co., Delta bldg
Los Angeles, Bungalow Co., 106 W 3rd
Los Angeles Co., 608 S Main
McDermott, J. F., 736 S San Pedro
McCabe, R. M., 608 S Main
Mitchell, J. Burris & Co., Douglas bldg
Peterson, A. A. Co., Stimson bldg
Pioneer Building Co., Bradbury bldg
Poole & Jones, 218 W 3rd
Pratt, G. T., 440 E 3d
Powers, B. N. Co., 315 S B'dway
Pozzo Construction Co., 501 Macy
Putnam, J. H. & Sons, 3047 Inez
Rebman, John, 253 S B'dway
Richards-Neustadt Construction Co., Stimson bldg
Roberts Construction Co., 106 W 3d
Bueker, Elmer, 1057 W 38th
Sage & Little, 145 S Spring
Salveter, H. D., 702 S Spring
Scott, Benjamin, 1622 Main
Seelye, O. L., Citizens National Bank
Smith, Ross W., 2270 W 23d
Taylor Bros., 608 S Main
Tyler & Co., Bumiller bldg
Walker, O. A. (Brick), 1152 Jasmine
Weesner, C. (Brick), Pacific Elec. bldg
Walker Cottage Co., rear 420 W 6th
Western Construction Co., 408 S Spring
Weston, Eugene, 106 W 3d
Wiechmann, Henry & Son, 3409 S Main
Williamson, E. S., Grant bldg
Winona Building Co., 430 S B'dway
Yard & Hiehorn, Citizens National Bank
Yarnell, B. F., 315 S B'dway
OAKLAND—Allen, B. K., 718 20th
Allyn, B. C., 820 Isabella
Amador Marble Co., terminus Piedmont av
Anderson, W. W., 461 Chestnut
Barnard, C. S.
Bayshore Building Co., 969 B'dway
Belden Building & Inv. Co., 1112 B'dway
Bingham Bros., 165 E Moss av
Blake & Bilger Co., Central Bank bldg
Bruecker & Lewis, 676 E 12th
Bullock, O. M.
Caldwell, J. C., 585 28th
Champney Bros., 1424 San Pablo av
Childs, Arlett & Co., Bacon block
Davis, Wm. & Son, 57 12th
Doss, C. A., 1016 E 15th
Dingwell, J. F., 1515 West
Dingwell, J. H., 1502 West
Fallmer, R. H., 894 47th
Fogg, C. & Son, 213 Telegraph av
Forbes, W. A., 963 Franklin
Fortin & Son, Master Builders' Exchange
Gilman, A. E., 1024 San Pablo av
Greene, S. A., 109 Cameron
Gunn, J. F., 823 Isabella
Haskell, B. W., 2041 Linden
Hetkes & Allen, 730 Myrtle
Hitchcock & Son, 859 Brush
Hubbard & Co., 1264 B'dway
Isbell, H. E., 1915 Linden
Johnson, O. P., 1425 8th av
Jones, F. G., 1113 Webster
Koenig & Kroll, 878 B'dway
Laughland & Schnebly Co., 1443 B'dway
Law, T. R., 527 18th
Leiter, E. T., 3615 West

Leiter, Geo. L., 3700 West
Littlefield, C. A., 581 Sycamore
Lloyd Bldg. Co., E 14th nr. Bassett, Fruitvale
McCarter, H. T., 1505 25th av
McCracken, Hugh
McDonald, J. B., 764 19th
Maxwell & Havens, Piedmont
Middleton, J. H., 2215 B'way
Mullane, J. P., 2029 Filbert
Newton Sandford Cons. Co., Bacon blk
Nichols, C. E., 294 24th
Nichols, L. L., Bacon blk
Nichols, R. F., 1151 Santa Fe av
Norman, S. A., 1362 West
Pinkerton, F. H., 2226 Elm
Prenville Co., 265 12th
Ransdell, J. W., 1294 E 29th
Reardon-Crist Cons. Co., 363 13th
Roberts Bros. Co., Central Bank bldg
Sell & Ekers, 2818 Sunset av
Shrader, J. F., 522 16th
Silsbee, F. J., 858½ 20th
Simpson, J. H., 691 Brookhurst
Sorenson Bros. & Peterson, 906 B'way
Sorenson & Sibbett, 1224 Fruitvale av
Structural Portland Cement Co., Union Savings Bank bldg
Studley, W. H., 277 Telegraph av
Teller, P., 1039 60th
Thomson, A., 127 San Pablo av
Underwood, T. A., 5971 Grove
Watson Roof Co., 427 15th
White, J. A., 1015½ B'way
Wilkins, C. W., 1367 B'way
Wilson, S. H. & Son, 1064 Franklin
PALO ALTO—Bentley, Geo. H.
SACRAMENTO—Harvie, N., 2204 O
Harvie, N., 2204 O
Shadinger, M. H., 2101 10th
Sillers Bros.
Wendt, G. A.
Wolf, P., Jr.
SAN FRANCISCO—Alpha Building Co., 7th & Anderson & Co., 1623 Eddy Hooper
Anderson & Shaw, 226 Willow av
Armstrong, Albert M., 1215 Gough
Atlantic Gulf & Pacific Co., Monadnock bldg
B. & W. Engineering Co., 127 Montgomery
Bagge, W. H. & Son Building & Cons. Co., Balboa bldg
Bagge-Wilkie Co., 1273 Golden Gate av
Bateman, J. C., Monadnock bldg
Beach, H. Ward, 3686 20th
Behm, Joseph & Co., 141 Oak
Bergren, L. G., 209 Sanchez
Blume, C. A., Cons. Co., 185 Stevenson
Boyer & Son, 2377 Pine
Bowles, J. R., 117 Geary
Brady, Matthew V., 787 Market
Brown, T. S. Cons. Co. (Inc.) (Large)
Builders Exchange (The), 180 Jessie
Butler, Thos., Custom House
Butterworth Co., 850 Treat av
Button, I. V., 533 14th
Caldwell, F. Cook, 969 Fell
Campbell, James Co., Chronicle bldg
Campbell, Jno. V., 1040 Bryant
Campbell, Mark & Son, 729 Webster
Christian, Thomas, 540 Haight
Coast States Cons. Co., 503 Market
Coburn, R. W., 548 Duboce
Collman & Collman, Harrison av & 7th
Concannon, W. N., 112 Market
Condon-McGlynn Co., 789 Mission
Connors, W. P., 860 Potrero av
Currie & Currie, 1215 3d av
Days, Thos. H. & Son, Monadnock bldg
Duebel, Chas. Co. (Inc.), 225 Harrison
Dowdall Building Co., 6 Raymond av
Dowling, J. J., 925 Fulton
Duebel, Chas. A., 225 Harrison
Ellis, Seely E., 2016 Filmore
Equality Home Building & Loan Co. (Inc.), Pacific bldg
Farquharson, D. B., 1760 Ellis
Fee, Grant, 469 Frederick
Fennell Bros., Chronicle bldg
Ferguson & McCann, 1739 Union
Ferrolite Co., 338 Pine
Fuller, Geo. A. Co., Monadnock bldg
Gale, Merritt F. & Son, 185 Stevenson
Gilbreth, Frank B., 16 California
Gilligley, J. & Sons, 714 San Jose av
Ging, J. H., 918 Larkin
Gneggo & Sgaglia, 36 Wood
Golden Gate Commandery Co. (Building), 2137 Sutter
Gompertz, Chas. W., 120 Bush
Graham, Jno. N., 438 Clipper
Harney Bros., 3619 18th
Harrelson-Grau Co., Union Trust bldg
Healy, Tibbits Cons. Co., 268 Market

Hock, Chas. H., 910 Devisadere
 Helbing, Wm., 1420 Market
 Hohn, Theo. S., 3137 Steiner
 Hooker & Lent, 1st & Market
 Hyde, Harjes & Co., 112 Market
 Ince, Jno. C. Cons. Co. (Large, Heavy Building a Specialty)

Jack, Wm. Robt., 1925 O'Farrell
 Jensen, G. P. N., 320 Market
 Jess, W. N., 2011 Dvso.
 Karp, H. & Son, 711 Valencia
 Kittle Construction Co. (Large), 82 2d
 Klyce, Harvey A., Monadnock bldg
 Knowles & Reichley, 693 Mission
 Land & Nugent, 2165 Market
 Lange & Bergstrom, 787 Market
 Larsen, H. H. & Bros (Masons), O'Farrell
 Leach, Richard, 65 Matoma bldg
 Little, William Estate Co. (The), 3462 19th
 Lynch, P. J., Monadnock bldg
 Long & Hoyt Co. (Large)
 McCullough Contracting Co., 2023 Market
 McGowan & Butler, 180 Jessie
 McKee Building Co., 50 Spencer pl
 McKenzie, W., 734 Washington
 McKillican Bros., 338 Pine
 McKillop Bros., 534 Cole
 McLean, Murdock, 3773 Sacramento
 McSheehy Bros., 47 Langton
 Mahony Bros., Crocker bldg
 Mahony Bros., Jr., Crocker bldg
 Marcuse, Felix, 1768 Ellis
 Mason & Morrison, Monadnock bldg
 Mason & Morrison, Monadnock bldg
 Mercer-Fraser Cons. Co., 1525 Mission
 Metropolitan Building Co., Pacific bldg
 Meyers, H. J., 24 California
 Miller, Geo. E., 710 Montgomery
 Mitchell, J. W., Pacific bldg
 Mitrovich, J. I. Building Co., 1536 Golden
 Moller & Sons, 520 Jessie Gate av
 Monson Bros., 483 Guerrero
 Moore, C. P. Building Co., Mills bldg
 Morehouse, C. C. (Plasterer), 2911 California
 Mortensen Construction Co., 19th & Indiana
 Murphy, J. J., 2859 California
 Nimmo, Geo., 345 8th
 Northern Building Co., Humbolt Bank bldg
 Olmo, J., 2823 25th
 Pacific Construction Co., 16 California
 Palmer & McBryde, Monadnock bldg
 Pauly Jail Building Co.
 Penny, Isaac, 412 O'Farrell
 Pettus, T. A., Mechanics Bank bldg
 Plant, Wm. & Co., 40 Spencer pl
 Porter, W. F., 718 Bryant
 Prael & Schmidt, 941 Folsom
 Price & Hutcherson, 1550 Turk
 Pringle, Dunn & Moscrip, 338 Pine
 Pynn, Hugh E., 1349 B'way
 Reed, Walter N., 233 Precita av
 Remington, E., Bush & Batry
 Riley, Jno. F., 1717 Webster
 Ringrose, Rhody, 2618 Sacramento
 Salanave, Jno., 915 Pacific
 San Francisco Concrete Building & Cons. Co., Monadnock bldg

San Francisco Rebuilding Co., Pacific bldg
 San Francisco & Suburban Home Bldg Co.,
 Sass & Son, 629 California 201 Euclid av
 Schaefer, W. F., 1493 Guero.
 Schulte & Kipp, 2327 Folsom
 Scott Building Co., 326 5th
 Segurson Bros., 1545 Folsom
 Selfridge & Sypher, 16 Geary
 Sheehan, Jno. R. Co. (Inc.), 350 Post
 Smyth, John T. E., 1238 Masonic av
 Snook, Jas. A. & Co., 247 Davis
 Summit Construction Co., Kohl bldg
 Thompson-Starrett Co., Bush & Kearny
 Thomson-Graf-Edler Co., 24 Duboce av
 Trost, Robert, 3336 Army
 Trounson, J., 21 Mason
 Tucker, E. W. & Co., 215 Spear
 Urfer, Chas. E., 2650 Post
 Voigt, F. M., 579 5th av
 Walker, P. J., Monadnock bldg
 Watson, Daniel, 515 Pine
 Webster-Mace Construction Co., Merchants' Exchange bldg

Western Pacific Home Builders, Monadnock
 Western Stair Works, 2691 Maryosa bldg
 Wilhelm, A. H., 428 Capp
 Wilkins Building Co., 126 Lily av

SAN JOSE—Ward, Joseph (Sewer)

SAN LUIS OBISPO—Mitchell, F. C.

SANTA CRUZ—Folsom, C. D.

Knapp, J. B.

SANTA ROSA—Hoyty Bros.

Neurauter, Joseph (Brick & Stone)

STOCKTON—Clark & Henery Construction Co.

VACAVILLE—Sharpe, G. H. (Large)

WOODLAND—Curson, W. H.

Winne, W. H.

COLORADO.

COLORADO SPRINGS—Atkinson, Lynn S.

DENVER—Brown Contracting Co., 1135 14th

Doak, Jas. M., 2429 W 37th av
 Dunn, Chas. J., 1300 S Water
 Dustman, Jno. H., 4859 Wolf
 Fewlass, Robert, 2316 10th
 Geiger, Jno., 439 Lafayette
 Graham, Matthew, 620 14th
 Griffith, R. J. & Son, 1335 Welton
 Hamman, J. A., 1712 Larimer
 Hannum, G. T., 1928 Blake
 Hatch, C. O., 1846 Arapahoe
 Hervey, S. O., 11 W Maple
 Hudson, Jno. W., 1625 Pearl
 Hughes, Wm. C., 2019 Champa
 Humphrey, A. C., 51 Pearl
 Jackson, Jas. B., 1717 Stout
 Jewett, F. D. & Co., 2951 Gray
 Johnson, Thos., 2744 Lawrence
 Kirchhoff, Chas. E., 2705 Walnut
 Lesene, Jno. A., 1710 Larimer
 Lewis, Geo., 1012 19th
 Little, Geo., 1660 Platte
 Lund, Ernest, 21 W 13th av
 McArthur, P. C., 415 W 4th av
 Morcum, Chas., 1932 Lawrence
 Needles, Avery, 2014 W 32d
 Norton & Reynolds, 1741 Curtis
 Pearce, S. A., 1856 Arapahoe
 Pedersen, Rasmus, 2836 Welton
 Ripley, A. S. Building Co., Exchange bldg
 Simpson, J. M., 1019 19th
 Skeel & Striegel, 322 15th
 Stocker & Fraser, Continental bldg
 Traver, N. L. (Brick), 1515 Arapahoe
 Treff, C. A., 1413 Blake
 Van Meter, M. H., 1531 Cleveland, pl
 White, J. T., 16 E 26th av
 Wilber, A. H., 1649 B'way
 Wolff, H. J., 1855 Lafayette
 Young, C. A., 1640 Champa

FORT COLLINS—Browner, E. M. (Brick W'k)

Brown, L. W. (Brick Work)
 Hughes, Wm. G., 2019 Champa
 Button, C. A.
 Conley, M. G.
 Earley, W. T.
 Finger, J. (Stone)
 Garnick & Son
 Leonard, R. B.
 Loveland, C. J.
 Lunn, John (Brick Work)
 McDaniel, G. R.
 Schroeder, H. W.
 Suiter & Ryan (Concrete)

PUEBLO—Summers, J. C. (Stone & Cement)

TRINIDAD—Crouch Lumber & Cons. Co.

Pierce Lumber & Mfg. Co.

CONNECTICUT.

ANSONIA—Alcott, Rufus C.

Barnes, W. A.
 Beardsley Building Co.
 Brandt, Frank
 Coles, Alfred
 Dwyer, John
 Hall, Richard J.
 Holbrook, Royal (Stone), 53 Franklin
 Holzwig, Louis
 Nelligan, Michael J.
 Penders, T. H., Prospect
 Potter, Wm. (Stone), Rockland av
 Ransome & Smith Co.
 Rolston, C. A.
 Woodruff, C. Y.
 Wooster, C. B. (Stone), 263 Wakelee av
 Wooster, Dwight, 277 Wakelee av W A

BETHEL—Gilbert Bros.

Senior, A. H.

BRANFORD—Bradley, Richard (Large)

Hosley, Benjamin F.

BRIDGEPORT—Anderson Bros., Nash's lane

Behrens, F. W., 319 E Washington av

Belleizzi, M., 255 Grand

Bissonnette, N. P. & Co., 176 Park

Bjorkland, C. A., 1490 Park

Bjorkland, C. S., 114 Poplar

Blitz, Chas. A. & Co.

Blycher, A. W., 441 Poplar

Bishop, Jno. H., 1275 Park av

Bostford, Chas. H., 192 Maplewood av

Bown, Alfred A.

Bulkeley & Smith, 171 John

Burgess, T. A., 2285 E Main

Burnes, H. A., 1122 State

Burnes, J. E., 221 Colorado av

Burns Co. (The), 83 Fairfield

Chatneuff, Chas., 113 Wood av

Christensen & Christensen, 442 Center

D'Agostino, Sparano & Cennino, 1852 Main

Dalton & Wallenta, 133 Union av

Doolan, James

Dowling & Bottomley, 1119 Broad

Foley, G. B., 182 French

Filmer, Sterling, 65 Kossuth

Frederickson, Bros. Co., 620 Railroad av

French, Geo. F., 480 Park

Garvey, Patrick K.

General Constructing Co.

Gough, John, 839 Railroad av

Grive, J. Andrew, 1231 Pembroke

Haight, Edward F., 45 Ellsworth

Hoffman, Henry C. & Co., 249 Water

Hoffman, Lewis W., 78 Baldwin

Hubbell, Samuel W. Building Co., 590 Knowlton

Hurlburt, Walter S. Building Co., 225 John

Jackson, John & Co., 500 Park

Johnson, A. L., 21 Stratford av., Fairfield

Jones & Hoffman, 45 William

La Forge, Marcus E., 15 Hayes

Laister, Percival, 31 Kossuth

Locke & Huddy, 952 E Main

Lunn, J. A. & Co., 31 Elm

McCarthy, Geo. T., 933 Iranistan av

McFarland, John J., 215 Mountain Grove

Marshall, A. H., 1110 Howard av

Martin, Wm., 705 N Washington av

Mills, Geo. E., 207 Knowlton

Morehouse, Andrew & Sons, 804 William

Muirhead, Wm. R. Co., 1362 Pembroke

Nettleton, H. H., 189 Wordin av

Nordling, George, 1394 Boston av

O'Brien, T. & Son, 137 Black Rock av

Pilotti, P. & Son, 373 Main

Purdy, Hy. M. Co., 550 Water

Sanger, Jos. M., 520 William

Schindler, Geo., 32 Prospect

Schwarz Bros., 166 Lindley

Sherman, Adolph, 195 6th

Smith, W. A. Building Co., 190 Cannon

Smythe, Chas. D., 1492 Boston av

Squires, Seth B. & Sons, 51 Elm

Stewart, Thos., 6 Ashley

Stone, Lorenzo D., 116 Arctic

Toole & Sunderlin, 83 Fairfield

Traggorth, A. C., 85 Linwood

Turrill, Jas. C., 153 John

Vanstone & Vanstone, 106 Austin

Whelan, Robt. W., 411 Gregory

Wilkins, Philip, 446 Beechwood av

BRISTOL—Benoit, W. F. (Stone)

Burr, F. E.

Crothers, W. W.

Fogg, W. E. (Large)

Frecman, James

Hall, D. W.

Hough, Edgar A. (Stone)

Lacourse, G. J.

Linstead, F. W.

Linstead, Wm. (Large)

Nystrom, Niles E.

Stewart, L. L. (Large)

Taillon, A.

Thompson, M. C.

Whittlesey, D. L.

CROMWELL—Condon, H. W.

Johnson, E. T.

DANBURY—Barry, Henry, Crosby n Maple av

Bell, Alfred, 104 Elm

Benedict, John H., 4 Moss av

Blackman, W. B., Crosby

Bunnell, Jno L., 10 Pearl

Crossley, Chas. C., 24 Griffing av

Cunningham & Patchen, 34 Lincoln av

Foster Bros., 21 Delay

Hager Bros., 11 Meadow

Hewitt & Warden

Hill & Reynolds

Leahy, Edmund, 7 Clark

L'Heureux, Henry, 28 Main

Mallett, Judson B., 23 Rowan

Marsh & Knapp, E. Franklin

Northrop, Warren H., 16 Bates pl

Olmstead, F. C., 19 Crosby

Osborne, Peter M., 353 Main

Parsons, Abel, 28 George

Schnable, Philip W., Stevens pl

Selleck & Hathaway

Sunderland, W. W., 7 Spring

DANIELSON—Stone, S. S.

DANIELSONVILLE—Gilbert, J. A.

DARIEN—Schofield, Hy. & Son

Whitney, Wm. M.

DERBY—Austin, Daniel, Mt. Pleasant

Durrschmidt & Co.

Hession, Wm., 922 Smith

Yocher, J. G., Jr.

EAST HADDAM—Galdwin, Casper S.

Mack, J. T.

EAST HAMPTON—Carpenter, H. E.

Darling, A. R.

Flood, Andrew

Strong & Hale

EAST HARTFORD—Bragg, J. Merrick, 7 Elm
Carroll, Jos. E., 15 Central
Dutton, Leslie, 14 Rector
Driggs, Waldo J., 62 Hartford av
Fairbanks, C. P.
Gehan, John B., 63 High
Jones, Chas. A., 32 Hartford
Whaley, A. M., 41 Olmsted
Whaples, Jno. F.

ESSEX—Southworth, Jos. P.

FAIRFIELD—Birch, Robert J., Southport
Busser, Ignace
Cobb, John H.
Darling, Jas W., Southport
Forsyth, Thomas
Godfrey, Eugene, Banks South District
Gray, Charles, Southport
Perry, Frank E.
Reed, Joseph
Rigney, Jas.

GREENWICH—Anthony, Daniel & Co.

Burn, E. E.
Crosby, Jos. P.
Cumiskey, James
Duge, John L.
Eagan, Thos. J.
Ferris, J. H.
Mead, W. H.
Mills, S. A. & Co.
Reynolds, James (Banksville)
Ritch, Thos. J.
Rolna, Angelo
Schubert, Bernard
Selleck, W. Sands
Stoothoff, Stephen
Thompson, Anthony
Wanamaker, Geo.
Weir, Joseph T.
Wigmore, Thos. E.
Young, Thomas

GROTON—Edgecomb, J. F., 34 Ramsdell

Hanover, Clinton D.
Marquardt Bros.
Tiffany, Albert N.
Watrous, Horace G.
HAMDEN—Bassett, George A.
Wooding, B. H.

HARTFORD—Alcorn, Robert T., 21 Gold
Andrus, Chas. B. & Son, 902 Main
Angus, Alex.
Ashwell, R. R., 145 Vine
Barrett Bros., 46 Trumbull
Barrett, Fred. W.
Belden, E. S., 217 Laurel
Benner, A. J.
Bering, P. H., 34 Hubbard
Best, Herman J.
Brabazon, Thos. F.
Brodeur, A. J.
Browne, Edmund, 1419 Main
Budde, A. W., 107 Hungerford
Calder, Geo., 140 Sargeant
Cairns, Robt. & Son, 80 Clark
Canlkins, W. E. & Son, 2 Chapel
Cook, Charles C. (Large), 401 Trumbull
Couture, Joseph H., Clermont
Crane, Patrick W., 90 John
Curtiss & Dean
Deming, Wm. B., 19 Columbia
Denison, George E., 168 Pearl
D'Esopo Bros., 1179 Main
Dodge, D. W., 36 Kinsley
Donovan, Anthony
Egan, James F.
Farrel, Patrick R.
Erickson, M. H., 77 Ward
Flynn, Jno., M., 27 Vernon
Flynn, Martin, 62 Lincoln
Flynn, Thos., 96 Buckingham
Fox, T. R. & Son, 36 Pearl
Frary, John
Gellert, A. N., 275 High
Geretz & Sullivan
Gradisky, L. W. H., 80 Ann
Grozier, Jas. H., 125 Warrenton av
Gustafsen, Elon W., 49 Pearl
Hannon, Hugh, 1191 Park
Helmovitch, Wm., 14 Avon
Hills, A. L., 720 Main
Hills, Jno. R., 754 Main
Hoggson Bros., 36 Pearl
Hollis, D. W. & Son, 212 Asylum
Hoye, F. P., 70 Lenox
Johnson, Richard, 27 Pawtucket
Jones, R. F., 36 Pearl
Keep, W. E.
Kent, F. D.
Lasher, P.
Low, David
Low, Oswald
Low, W. B. & Son
Lowe, W. T.
Lykke, John P., West Hartford

McCann, Patrick A., 33 Vernon
McIntyre & Ahern, 50 John
McKensie, John A.
Mahl, Herman
Malcolm, Thos., 26 State
Meloney, Chas. D., 27 Spring
Murphy, J. P., 1337 Park
Nevels Bros., 7 Central
Newton, Theodore & Co., 77 Pearl
Newton, Thos. S., 116 Clark
Nolan, John F., 54 Benton
Norton, Malcolm A., 71 Highland
O'Brien, Wm., 136 Retreat
O'Loughlin, James, 756 Main
O'Neil, Michael, 24 Pawtucket
O'Neil, Wm. F., West Hartford
Parker, G. S., 187 Pearl
Pellett, A. D., 240 Smith
Penders, James
Peterson, A. P., 18 Baltimore
Philbrick, Halsey B., 26 State
Porteus, Robert, 13 Forest
Provost, Napoleon L., 142 Brown
Purves, Adam, 334 Asylum
Reemer, G. A.
Richmond, C. F., 2 State
Rogers, James H., 58 Belden
Rosen, J. Co., 12 Suffield
Rowley, Frank H., 607 Albany
Rowley, J. H., 32 Raymond
Scanlon, John W.
Scott, John, 48 King
Scoville, A. W. Construction Co., 756 Main
Scoville, W. H., 720 Main
Sherman, Rogers W.
Simms, W. J., 80 Pearl
Sinnott Bros., 87 Lincoln
Slattery, Austin P.
Smith & Des Champs
Snell, O. W., 2 Central
Snow, G. W.
Squires, Walter L.
Stenson, O. E., 16 Cone
Sullivan, D. M., 42 Adelaide
Svenson, Chas., 54 Woodbine
Taylor, Peter, 101 Bartholomew
Tremonto, D.
Tryon, Watson & Son, 720 Main
Walch, Thomas
Welch, Thomas
Westland, W.
Wilcox, W. A., 36 Raymond
Wilson, Samuel
Woodward, Fred'k E., 66 Madison

MANCHESTER—Palmer, Robert W

MERIDEN—Arnold, G. A., 225 Curtis
Bagley, George, 48 Linsley av
Barrow, R. W., 27 Union
Bloomfield, Garry, 18 Chestnut
Clancy, John F.
Fitzgerald, M. F., 15 S 1st
Haigis, Matthias, 184 Broad
Kooreman, C.
Lanoue, Walter, 121 State
Lawrence, J.
Lines, H. Wales Co. (General), 134 State
Lyman, Austin J.
Miller, W. F., Kensington Heights
Morehouse Bros. Co., 20 Miller
Morehouse, H. L.
Moses & Arnold, 8 Perkins
Penfield, O. H.
Russel, Thos. W. & Sons
St. Cyr, Z. J., 26 Wood
Stecker, Henry, 29 Gales
Stiles, F. W., Butler & Hanover
Suzio, Leonardo, 185 Lewis av
Williams, G.
Wright, A. G.

MIDDLETOWN—Brazos, A. & Sons, 82 Oak

Burke, Robert W., 84 Pearl
Butler, H. R., Church
Donahue Bros.
Loewenthal, Gustav, off Front, nr Russell
McConnochie, H.
Murray, A. A. & Sons
Mylchreest Bros.
Mylchreest, Wm. & Sons, 9 Brainerd av
O'Brien, Dennis, 42 Crescent
Robinson, A. B. & Son, 145 Main
Southworth, Jos. E., 520 High
Stone, C. O. & Son
Tryon, J.
White, Frank H., 27 Park pl
Young, J. B. 50 S Main

MILFORD—Baldwin, S. H.

Bristol, Dennis M.
Clark, Elbert N.
Miles, J. L.
Smith, David E. & Co.

MYSTIC—Allen, G. W.

Cromwell, C. S.

Crumwell & Heath
Heath, John H.
Mattison, Robert R.
Miner, Manning
Noyes, Nathaniel
Tufts, Caleb

NAUGATUCK—Christenson, Andrew

Dunn, Jere. H., 180 Church
Gorman, Jno. J., Gorman & Lewis
Hotchkiss, E. A., Beacon Valley
Kennedy, T. A.
Matson, Lawrence V., 215 N Main
Reynolds, Joseph W., Cherry
Winslow, Lester H.

NEW BRITAIN—Allen, John W. & Son, 231

Andrews, W. A., 32 Camp Chestnut
Bergstrom Co.
Bradley, Wm. S., 14 Kelsey
Burk & Johnson, 32 Wilson
Canfield & Quinn
Carlson, Eric U., 78 Winthrop
Carlson, Jno. August, 157 Dwight
Carlson & Torell, 67 N Fairview
Christopher, H. L., 126 Jubilee
Clifford, A. D. Co., 97 Chestnut
Conlon, F. & Son, 93 Tremont
Crowe, Thomas W., 17 Tremont
Curtis, O. F., 73 Church
Dohrwend Bros. Co., 57 Columbia
Doolittle Bros. (Brick & Stone), Linwood
Downes, John E.
Edwards, Clark, 60 Lafayette
Ganske, E. G. H., 338 Park
Hennessy, Timothy & Son, 166 Hartford av
Hibbard, B. H. Co. (Inc.), 153 Arch
Holmes, C. C.
Holmes, Chas. W., 110 Fairview
Johnson, Chas. F., 147 Jubilee
Johnson, S. J., 62 Hawkins
Mansworth, Edward, 16 Beaver
Meskill, John E.
Moran, J. D., 85 Hartford av
New Britain Co-op. Bldg. Co., 426 Main
Norton, Henry
Paonessa & Co.
Ramage, R. J. (Brick & Stone), 42 W Pearl
Rowley, O. E., 111 Dwight
Rutherford Bros.
Sparks, Wm. B.
Webb, Thomas (Stone), 58 Chestnut
Whaples, Henry N., 134 Linwood
White, Walter B.
Zink, Pius

NEW HAVEN—Andersen, H. M., 188 Putnam

av Whitneyville
Anderson, Mathew S., 138 Blohm, W. H.
Arnold, L. H.
Baldwin, Elbert H., 37 Gill
Barnes, Wm. E., 75 Gibbs
Bassett, Geo. A., Ridge rd, Hamden
Beloff, A. & Son
Bohn, Geo. & Sons, 798 Congress av
Brainerd & Benson, 120 Commerce
Brett, Edw. P., 7 Prout
Burke, J. E. & Bros., 155 Greenwich av
Carey, John E., 117 Greene
Carmichael, A. J., 595 Whitney av
Carroll Bros., 13 Anderson
Church, James A. Co., 262 Sherman av
Clark, David H. Co., 166 Brewery
Clark, G. Wilbur, 244 Sherman av
Coffey, Lawrence J., Autumn nr Canner
Conlan Bros., 176 Franklin
Cook, Geo. H.
Countryman, Edwin
Coyne Bros., 167 Chapel
Crocker, B. F., 267 Water
Curtiss, Walter B., 869 Quinpiac av
Dauenhouse, Chas., 313 1st av, W. H.
Davis, T. L., 41 George
Dean, Geo. W., 10 Pitkin la
Dean, J. LeRoy, 65 Orange
DiFrancesco, Natale, 146 Oak
Doherty, Timothy F., 195 Poplar
Dutcher, Oscar W., 25 4th av, W. H.
Elwell, F. J., 113 California
Farnham, Arthur N.
Fitzgerald, Garrett J.
Fogarty, J. A., 531 Grand av
Fowles, Harry I., 90 Poplar
Fusco, Carlo, 495 Columbus av
Galligan, Jas. E., 137 State
Gayton, Wm. (Stone), 31 Whiting
Gibbud & Augur, 83 Water
Gilhuly, Bernard, 41 Martin, W. H.
Goldstein, A., 71 Prince
Goodale, E. Lincoln
Grant, Geo. M. Co. (Large), 865 Chapel
Grenier, Abraham, 730 Howard av
Grenier, Alfred D., 136 Washington av
Gutzelt, Louis, 9 Ailing
Hagan, Jno. A., 83 Whalley av

Hawkin, John
 Hayes, Wm. H., 6 Baldwin
 Hedges & Cameron, 333 Norton
Heft, Richard, 90 Thompson
 Hildreth, J. D. & Son, 514 Elm
 Hine, E. L., 72 Asylum
 Hogan, James H., 138 Davenport av
 Hubbell-Merwin Co., 19 Artizan
 Humphrey, O. E. & R. T., 233 Main, **W. H.**
 Humphrey, G. W., 153 Washington av, **W. H.**

Knoll, Carl A. & Son, 51 Sherman av
 Leonard, John N. & Co., 902 Chapel
 Lettney, W. H., 193 Main, **W. H.**
 Lewis, John W., 338 Lighthouse rd, nr Morris cove

Lipson, Phillip, 157 Washington av
 Lowe, H. E., 354 Ferry
 Lowe, John, 352 Grand av
 McCauley, Harry, 23 Sheffield av
 McFeters, Charles, 370 Orchard
 McWilliams, Alex., 173 Livingston
 McWilliams, Alex. S., 74 Howard av
 Maher, Thos. F., 56 Bishop
 Malcolm, J. D., 33 Bishop
 Martin, Francis, 246 Thomas, **W. H.**
 Mix, Henry S.
 Morcaldi, Dominick, 126 Orchard
 Morgan, S. H., 80 E Pearl
 Morton, J. C., 478 State
 Murdock, Chas. W., 530 Grand av
 Osborne, John S. Co. (Large), 178 Goffe
 Overton, E. W.
 Parmelee, Hy. E., 30 Atwater, **W. H.**
 Paterson, Wm., 844 Chapel
 Peck, Geo. C.
 Perry, W. S., 210 Howard av
 Platt, Philip E., 152 Peck
 Prince, Edw. A., 498 Howard av
 Rathgebar, Geo., 178 George
 Razee, Geo. E.
 Reed, Chauncey F., 59 Forest
 Reid, Wm. J., Shelton av & Read
 Ritchie, Wm., 115 Bishop
 Robertson, Wm. H., 57 Crown
 Rogers, S. R. & Sons, 492 Orchard
 Shannon, James
 Sherman, Jno. L. & Son, 253 1st av, **W. H.**
 Sherman, Wm. A.
 Sperry & Amos
 Sperry Co. (Large), 902 Chapel
 Sperry & Treat (Masons), 39 Church
 Stowe, F. A. & Son, 115 Fountain
 Stone, Abraham, 43 Prince
 Thomas, L. I., 340 Howard av
 Thomas, Lewis R., 824 1st av, **W. H.**
 Thompson, John H., 270 Lenox
 Thorpe, James Co.
 Todd, James E., 546 State
 Townsend, Wm. M.
 Valente, P., 2d., 1 Sherman av
 Warner, F. A., 862 Dixwell av
 Warner, H. E., Jr., 27 P'way
 Warner, John W., 74 Smith, **W. H.**
 Waterhouse, C. R., Jr.
 Wharton & Saunders

NEW LONDON—Allen Bros., 19 Rosemary
 Cullen, W. J.
 Denison & Brown
 Douglas, Hamilton R., 27 State
 Fitzgerald, J. E. Co. (The)
 Fowler Bros., 181 Ocean av
 Fowler, O. L. (Bricklayer), 164 Willett av
 Geer, N. Elbert, 367 Bank
 Goddard, A. O., 345 Broad
 Grane, J. G., 87 Jeerson av
 Griswold, H. R., Broad nr City line
 Harvey, Wm. A., 311 Ocean av
 Holmes, G. H., 38 Front
 Hull & Gould
 Ladd, F. M. Co., 430 Bank
 Linicus, B. R., 743 Bank
 Lyon, I. U., 26 Colt
 MacDonald, G. D., rear 352 Bank
 McQueen, Geo. A., 346 Montauk
 Martin, Lake R., 24 Montauk av
 Mineault & St. Germain, 32 Pearl
 Morgan, A. I., 2 Konomoc
 Murphy, Dennis J. (Brick), 29 Tilley
 O'Connell, Michael, rear 52 Bank
 Perry Bros.
 Pierce, Edgar B. (Bricklayer), 29 Golden
 Post Bros. (Stone), Hempstead cor. Home
 Prentice, Herbert B., Ledyard cor. Bayonet
 Prest, G. J.
 Rogers, H. E. Construction Co.
 Ryan, J. J. (Stone), 105 Blackhall
 Scott, T. A. Co.
 Smith, Joseph, 2d, 576 Bank
 Spencer, A. L.
 Watrous, H. G., 97 Green
NEW MILFORD—Beach, C. M.
NOROTON HEIGHTS—Skelton, R. F. (Masonry, etc.)

NORWALK—Banks & Co., 42 5th, E N.
 Bedient, Fred'k H., 15 Centre av, N
 Bess, Wm. Platt
 Berger, E. & Co., 45 Wall, N
 Charlott, Salvator (Stone), 26 Wood, S. N.
 Clark, E. F.
 Gamble, Leslie, 12 Seaview av, E. N.
 Gregory, Franklin B., 6 Westport av, N.
 Hendricks, Harry A., Silver Mine av nr Comstock av, N.

Hoyt, Dudley E., Highland av, S. N.
 McMahon, Wm. H., 30 Seymour av, S. N.
 Malkin, A. R. & Co., 3 Mechanic, N.
 Maring, H., Conn. av nr W Norwalk av
 Mather, Henry W., 49 Water, S. N.
 Morehouse, Samuel C., W. N.
 Smith, F. J., 14 Water, N.
 Smith, W. H., 39 West, S. N.
 Waldron & Riordan, 29 Haviland, S. N.
 Walsh, T. L., S Pine, N
 White, W. F., 83 Winfield, S N
 Yost, Charles, 80 Main, N.

NORWICK—Beckwith, Frank E., 90 W Main
 Blackledge, H. & Co., 27 7th
 Bowers, Gilbert, 130 Washington
 Carpenter, Albert N., 23 Commerce
 Cruthers & Lillibridge
 Dodd, Thos. (Stone), 36 4th
 Fellows, Geo. E., 343 Franklin
 Fowler, Edward B., 5 Carter av
 Hiscox, James
 Hyde, Geo. M.
 Kinne, Elmer A.
 Peck, McWilliams & Co., (Brick & Stone),
 Perkins, O. W., 44 W Main 47 W Main
 Rice, Frank G.
 Stetson & Young, 50 W Main
 Torrance, Archibald (Heavy), Prospect, head
 Williams, C. M., 218 Main of 9th
 Willis, Irving J., 56 Pearl

PUTNAM—Bellrose, Julien
 Carpenter, E. J. (Bricklayer & Plasterer)
 Carpenter, S. S. (Bricklayer & Plasterer)
 Chase, E. V. & Son
 Coville, Henry, Grove st
 Hopkins, H. F.
 Wheaton Building & Lumber Co., Front

RIDGEFIELD—Kennedy, J. M.
ROCKVILLE—Arnold, George & Son
 Caposto, D. F.
 Hutchinson, Frank
 Street, A. F.

SEYMOUR—Beecher, Frederick
 Jorey, Chas. H.
 Kempf, Chas. J.
 Lanyon, Joseph L.
 Peck, Arthur T.
 Tomlinson, Edward K.

SOUTHINGTON—Knapp, Jacob F.
SOUTH MANCHESTER—Bloom, Charles H.

Corbin, J. Arthur
 Hawley, J. E.
 Hohenthal, E. L.
 Mercer, Arthur
 Schreiber, Gustav
 Treat, Charles O.

SOUTH NORWALK—(See Norwalk)
STAMFORD—Anderson, C.

Anthony, R. M.
 Ballard, Elah
 Bland, Thos., Grey Rock pl
 Brown, Francis
 Elliott, Silas E.
 Harris Construction Co.
 Hook, Frank, 497 Main
 Hoyt, Noah W.
 McAdams, Thos.
 O'Connor Bros.
 Orr, Robert H., Courtland av N of Depot.
 Paul, E. G. Glenbrook
 Ransome & Smith
 Raymond, Everett, Maple av, Glenbrook
 Rogers, Geo. A.
 St. John, S. Y., 11 Bedford
 Scofield, Arthur A., 323 Summer
 Shea, Frank, Main
 Shea & Sullivan Co. (The)
 Studwell, D. W., 24 Hoyt
 Tucker & Vinton, Southfield av
 Vuono, Chas. D., 244 Pacific
 Wardwell, Fred S.
 Weed, Eugene A., 624 Summer
 Weed, Geo. N., 5 4th
STRATFORD—Blakeslee, G. W. & E. C.
 King, Benjamin (Brick & Stone)
SUFFIELD—Brown, F. W.
THOMASTON—Watrous, John N.
TORRINGTON—Christensen, Theo. A. (Brick)
 Clinton, G. R.
 De Michel, Jno. & Bros. (Stone)
 Farley, J. L.
 Fuller, Frank W.
 Gleeson, Patrick
 Hotchkiss Bros. & Co.

Jenks, George
 Kirsch & Racheter
 Lathrop & Shea
 Longhi, Louis & Bro. (Brick & Stone)
 Peck, Geo. H.
 Robblati, A.
 Torrington Building Co. (Large)

WALLINGFORD—Botsford, Horace, Cherry
 Wooding, C. F.

WATERBURY—Abern' & Dillane, 38 John
 Bahan & Dwyer, 24 Adams
 Berardi, Joseph & Co., 60 Clark
 Bergen, Edward & Sons, 475 Baldwin
 Bernier, Victor, 1011 Baldwin
 Bronson Knibbs Co., 24 E Liberty
 Brooks, C. M., Euclid av nr. Randolph av
 Butler, Thos. F. (Brick & Plasterer), 145
 Buttner, J. F., 227 N Willow Bishop
 Carey, Owen, Crescent
 Chatfield, G. S. Co. (Brick & Stone), 73 Canal

Chatfield & Chatfield (Brick & Stone), 94
 Chotzainoff, Julius, 50 Linden Benedict

Cronin, D. E., 11 E Main
 Daniel, Alfred, 9 Tracy av
 Delowry, Thos. A., 65 Cherry
 Dixon, A. B., 67 Canal
 Dulac, L. P., 39 Wolcott
 Dulac, M. A., 65 Benedict

Fidelity Construction Co., 989 Baldwin
 Fitzgerald, E. D., 74 Railroad Hill
 Gaffney, J. W. & Son, 427 E Main

Gay, Victor, 22 Union
 Goodwin, Jos. S., Munro pl
 Granite Construction Co., 517 S Main

Greene, H. T., 30 Woodruff
 Hanson, Julius, 784 N Main
 Irion, Burton A., 175 Wood

Ketchen, O. A., 432 N Willow
 Lovett, Jeremiah A., 59 Fuller
 Laravie & Co., 384 N Main

Leboeuf, Felix, 239 River
 Macauley Construction Co., 49 Chatfield
 Mraz, John 419 S Leonard

Riggs, Gardner G., 108 Bank
 Seeley, Chauncey & Co., 85 Bishop
 Smith, Edw. C., 399 N Willow

Tafel & Shapiro, 91 Divlsion
 Tracy Bros. Co., 52 Benedict
 Upham, George A., 48 S Willow

Waterbury Building Co., 14 Vine
 Waterbury Cons. Co., 57 Johnson
 White & Mohr, 27 Easton av

WATERTOWN—Griffin, J. E.
WEST HAVEN—(See New Haven)

WILLIMANTIC—Caisse, Alexls
 Jones, J. H., 128 Windham
 Larkin, H. A. & Son, 73 Spring

Larrabee, C. Jr.
 Latham & Crane, 159 Valley
 Martin, Jos. A.

Paquette, H.
 Sullivan, J. O., 48 Jackson
 Sullivan, Michael (Stone), Scotland

WINDSOR—Griswold, Charles
 Tryon, Watson & Son

WINSTED—Beckley, E. R.
 Beers, N. D.
 Carey, Jos. F. (Stone & Brick)

Hotchkiss, Lester E.
 Johnson, H. V. (Stone)
 Parsons, E. B.

Roe, John W.
 Ryan, James
 Thibault, N. J.

DELAWARE.

DOVER—Coffin, G. E.
 Cohee, John

Collins & Cohee
 Fisher, William
 Hiron, Jas. A.

LEWES—Johnson, Frank E.
 Johnston, C. W.

Johnston & Virden
 Virden, Wm. H.

MILFORD—Shockey, Wm. S.
NEWARK—Jacobs, L. B.

Litte, Samuel (Stone Mason)

WILMINGTON—Anderson, A. G. B.
 Anderson, Chas. E., 3 E 13th
 Austin, W. B. Contracting Co.

Baker, Geo. P., 1112 Shallcross av
 Barkley, J. Warren
 Barkley, N. Smith, 1324 W 5th

Berg, Aaron P.
 Brilely, Arthur W.
 Chandler, Philemma, 907 Monroe

Charles, Geo. S. & Son, 10 W 8th
 Cox, Canby, 412 Walnut
 Christiana Construction Co.
 Dangel, David & Sons, 506 Van Buren

Downward, Alfred, 716 Shipley
 Eckman, Aument, 1509 Gilpin av
 Foulk, W. H. & Son, 223 W 10th
 Grier, S. F.
 Grubb, M. E. & Co., 714 Kirkwood
 Haddock, Wm. D. & Co., 804 Orange
 Hamilton, J. S., 829 Orange
 Healey, John T.
 Hewes, James W.
 Jackson, John W., 923 Wilson
 Johnson, J. B., 724 Market
 Jones, Wm. H., 839 Market
 Kane, James H. & Sons
 Lenderman & Bro. (Large Builders), 10 W
 Lewis, Warner S., 606 Orange
 Lutton, Norris S., 2612 W 18th
 Lynch, Henry S., 409 Orange
 Lynch, Philip H.
 May, W. Howard
 McKee, Geo. S., 2107 Washington
 Melvin, Thomas H., 525 E 9th
 Newman, Samuel J., 1702 Shallcross av
 Phillips, J.
 Reed, A. S. & Bro. Co. (Brick) (Large
 Builders), 815 Shipley
 Samworth, Thomas, 1508 Lancaster av
 Seeds, H. B., 1714 Broome
 Seeds, W. C.
 Shakespeare, B. F., 305 W 4th
 Simmons & Bros., 102 W 5th
 Spence, Wm. M. & Co.
 Tarbutton, Samuel E.
 Taylor, Geo. W.
 Tindall, Chas. H. & Son
 Tindall, Wm. C., 511 W 9th
 Winslow, Geo. D.
 Wood, Marion N., 107 W 9th

DISTRICT OF COLUMBIA.

WASHINGTON—Allared & Appeby, 609 13th
 Anderson, Notley, 1402 G, N W
 Bache, Arthur J., 1225 11th, N W
 Barkman, Geo. W., 721 A, S E
 Beall, R. J. Construction Co., 1217 F, N W
 Beckwith & Quackenbush, 2925 M, N W
 Bieher, Henry, 503 M, S W
 Blethyn, Benj. L., 803 Oregon av
 Blundon & Simons, 30 Quincy, N W
 Boryes & Smith
 Bottsford-Dickinson Co., Colorado bldg
 Bowersox & Harper, 114 Florida av, N E
 Boyer & Smith, 1204 C, N W
 Brinkley, S. J., 1322 S Capitol
 Brown, H. Z., 939 L, N W
 Burden, Joseph, 609 G, N W
 Burgess & Parsons, 627 F, N W
 Bursey, I. B., 615 5th, N E
 Carter, Leroy H., 225 1st av, N W
 Cassel, E. D., Lawrence bldg
 Cassidy, Chas. J. Co., 523 13th, N W
 Cissell, D. T., 1220 11th, N W
 Cissel, S. C.
 Cogan Bros. & Forschner, Colorado bldg
 Colburn Bros., Colorado bldg
 Collins, Chas. D., 719 18th, N W
 Corbett, Geo. W., 507 9th, N W
 Cowsill, Arthur, Colorado bldg
 Cozzens, Richard E., Bank bldg
 Denham, Chas. S., 820 19th, N W
 Denham, Lewis C., 909 20th, N W
 District Construction Co., Colorado bldg
 Drew, Fred K, Colorado bldg
 Dunn, J. M., 1824 5th
 Eckhardt, Nicholas, 1140 18th, N W
 Edmonstone, Samuel H., 611 G, N W
 Edwards & Simpson, 717 12th, N W
 Emmert, Louis H., 1110 15th, N W
 Fersinger, Peter, 1 N, N W
 Fissel & Wagner, Home Life bldg
 Fitzpatrick, Jas. (Brick), 116 C, S E
 Getz, Aug. & Son, 6th & D, N W
 Gibbons, Jos. H., 1314 N. C. av, N E
 Gilbert, H. P., 1002 32d, N W
 Graham, Wm. I., 1407 Q, N W
 Harrison, G. W., 505 4th, S E
 Hazen & Latimer, 463 K, S W
 Henderson, John, 1214 E, N W
 Henderson, Thos. C., Corcoran bldg
 Herriman, M. H., 224 12th, S E
 Holtzclaw, W. B., 1705 Pa. av, N W
 Horton, Geo. P., Jr., 550 Columbia rd, N W
 Hull, Henry, 1418 F, N W
 Hutchinson & Harbin, 211 12th, N W
 Kemp & Kennedy, 1623 L, N W
 Kennedy & Davis Co., 1413 G, N W
 Kesler, Wm. H., 215 New Jersey av, N W
 King, Chas. W., 1311 G, N W
 Knell, Benj. B., 221 John Marshall
 Knott, Richard H., 1302 F, N W
 Landvoight, Edward, 2100 1st, N W
 Lane, Jno. H., 1725 3d, N E
 Langley, Chas. A., 310 12th, N W

Lankford, J. A., 317 6th, N W
 Larcombe, Jno. S., 808 17th, N W
 Leaman, Lafayette, 1004 9th, N W
 Lewis, Timothy L., 51 U, N W
 Lipscomb, W. P. & Co., 1405 F, N W
 McCollum, Edw., 4 I, N W
 McCray, Wm. H., 411 2d, S E
 McGee, Lawrence, 1515 Gales, N E
 McGregor, John, 729 12th, N W
 McIntosh, James, 1518 E Capitol
 McIntyre, John H., 3221 Volta pl, N W
 McKay & Morris, 1333 G, N W
 Macarty, Daniel J., 1419 G, N W
 Maloney, William E., 11 5th, N E
 Mandley, Jos. C., 230 H, N W
 Martin, Jas., 1333 S Capitol
 Marshall, Jas. L., 614 13th, N W
 Matthews, L. J., 130 W, N W
 May & Pierson, 1467 P, N W
 Melton, T. H., 19 T, N W
 Milburn, Harry E., 1743 N Capitol
 Millar, Alex., 1215 Ohio av, N W
 Montgomery, Victor F., 1112 4½, S W
 Mooney, W. E., 1245 New York av
 Newman & Smith, Colorado bldg
 Newton, Geo. P., 1006 F, N W
 Nolan, James F., 1709 New Jersey av, N W
 Parry, R. L., 1006 13th, N W
 Parsons, James L., Pa. av & 13½
 Piper & Kenyon, 729 15th, N W
 Plumley, Samuel M., 408 H, N W
 Potts, F. C., 17th nr Q, N W
 Prescott, Samuel J. & Co., (Large), 700
 13th, N W

Pumphrey, Geo. C., 414 7th, S W
 Reynolds, Jos. S., 1816 1st, N W
 Richardson & Burgess (Inc.), Colorado bldg
 Rinehart & Dennis Co., Colorado bldg
 Sauford, H. V., 1321 G, N W
 Saxton, Edmund, 841 Bladensburg rd, N E
 Scaggs, R. A., 1225 Franklin, N E
 Schaffert, John L., 427 I, N W
 Scott, John H. (Brick), 320 10th, N E
 Sonneman, F., 1205 Rhode Island av, N W
 Soran, Chas. H., 1409 New York av, N W
 Sorrell, Richard H. (Brick), 329 N, S W
 Sorrell, Wm. H., 244 8th, S E
 Speir, W. E. (Large), 1342 New York av
 Spencer, Wm. S., Bond bldg
 Spitzer, G. C., Home Life bldg
 Thompson, F. I., 3534 Brightwood av
 Turner, Watkins L., 41 Q, N W
 Turton, James E. & Son, 1007 K, N W
 Van Ness, E. M., 1252 Girard, N E, B'kland
 Volland, Chas. D., 1526 1st, N W
 Volland, Wm. A., 1315 V, N W
 Walker, Jno. T. & Son, 1920 N, N W
 Walker, Littleton W., Colorado bldg
 Wardman, Harry, 717 14th, N W
 Wicklue & Campbell, 1316 G, N W
 Wynkoop, J. A., 628 F, N E
 Zepp Bros., 1305 F, N W

FLORIDA.

FERNANDINA—Mann, John R.
 JACKSONVILLE—Blackmer, F. C., Dyal-
 Upchurch bldg
 Boden, J. H., 329½ W Forsyth
 Brown, Q. E., May nr Gilmore, R
 Boykin & Burwell, 107 W Forsyth
 Burwell & Hillyer
 Cotter, Wm. T. (Large)
 Green, Henry
 Hadlow, W. T. Co. 510 West bldg
 Halsema Woodcock Const. Co., 403 Main
 Hammett Contracting Co., 1027 Main
 Kooker, J. H., 35 W 5th
 Lytle, Wm. H., 720 Park
 McCarroll Compo. Stone Stucco Co.
 Onley, J. E., 41 W Union
 Palmer & McKenzie (Large), 426 W Forsyth
 Richardson, W. P. & Co., 128 E Bay
 Silsbe, Richard, Jr., 11 Livingston bldg
 Swisher & Demere, Placide bldg
 Taylor, Lennis, 536 W Union
 Trout, Fred J.
 Yates, Henry H., 317 W State
 KEY WEST—Kerr, Wm. R.
 ORLANDO—Mathews, T. W.
 PENSACOLA—Clubbs, A. V. (Large)
 Davis, L. M.
 Wills & Broughton
 ST. AUGUSTINE—McGuire & McDonald
 TALLAHASSEE—Gilmore & Davis
 TAMPA—Levick, Harry
 Sherrell, T. B.

GEORGIA.

ALBANY—Guest, E. L.
 Leonard, F. B.
 Smith, C. D.
 ATHENS—Brown & Cobb

ATLANTA—Alkins, S. C., 608 Peters bldg
 Allen, D. C., 416 Peters bldg
 Bailey, J. H., 350 Ashby
 Bensel, Wm. 66 E Ellis
 Bowen, C. J.
 Brown, I. N., 705 Peters bldg
 Callaway, Quinn, 22 W. Mitchell
 Clayton, G. A., 507 Gould bldg
 Corbally, J. A., 126 Windsor
 De Leon, Moise (Large), 4th Nat. Bank bldg
 Donaldson & Pearson, 2 Wall
 Fischer, J. A., 162 Whitehall
 Eliudt, Wm., 113 Pulliam
 George, W. H., Prudential bldg
 Hamilton, A. L. & Son, 69½ S Pryor
 Harris, M. A., 450 S Pryor
 Harvil, J. J., 68 Lee
 Helfner, F. P., 221 Gordon
 Higdon, J. F., 227 Georgia av
 Hudson, B. E., Peters bldg
 Ittner, Geo., 1015 Prudential bldg
 Ittner, N., 1015 Prudential bldg
 Lane Bros., 1027 Candler bldg
 Lee, D. J., 555 Whitehall
 Lee, J. B. & Son
 Lowe, J. H., 918 Austell bldg
 Ludewig, F. G., 414 Empire bldg
 McCaul, C. Co., Walton cor Fairlie
 Miles & Bradt Co., 800 Austell bldg
 Padgett, B. & Sons, 1202 Candler bldg
 Pittman Co., 1131 Candler bldg
 Slater, A. J., 136 Rawson
 Southern Stone Co.
 Terry, N. H., 94 Whiteford av
 Wagener, Fred.
 Warner, S. I., 40½ N Forsyth
 Wartheu, B. & T. Co., 602 Eng.-Am. bldg
 Wesley, P. J. & Son, 218 Peters bldg
 Williams, H. A., 822 Empire bldg
 AUGUSTA—Brown, T. O. & Son (Brick), 322
 Telfair
 Hallihan & Costello
 Little, A. J., 15th & Exposition av
 McKenzie's, J. H. Son
 Palmer, Mobley & Crooks
 Rowland, A. K., Walton way
 BRUNSWICK—Anderson, W. O.
 Bowen & Thomas
 Conzelman, J. G.
 COLUMBUS—Barlow, M. C.
 Barlow, G. M.
 Hardauy, B. H.
 Jones, E. A., 506 5th av, G
 McCraney, J. A.
 Pollard, M. J. C.
 Vaughn, S. J.
 Wooton, L. E.
 MACON—Beelaud, W. J., 220 2d
 Chambers Contracting Co.
 Ellis, Theo. W., Jr.
 Interurban Construction Co.
 Jones Bros., Commercial Bank bldg
 Patterson, A. L. & Co.
 Smalling, R. H. & Sons
 SAVANNAH—Artley, A. A.
 Brown, E. D.
 Dickson, T. C.
 Eason, J. R. & Son, 316 Waldburg W
 Gadsden Contracting Co.
 Gould, John D.
 Hawley, W. O.
 MacMahon, J. J. & Son
 Nesseler Contracting Co.
 O'Connell, Chas. S.
 Rabcy, P.
 Savannah Cut Stone Co.
 Von Eberstein, F. A. & Son
 Wood, Henry M., 219 Duffy W
 Young, H. O.
 THOMASVILLE—Arnold, H.
 Gribben, James
 WAYCROSS—Morton, A. S. & E. O.

IDAHO.

BOISE—Capital Construction Co.
 Faris-Kesel Construction Co.
 Grimes, J. K.
 Hubbard & Carlson
 Little, C. B.
 McLean, J. W.
 Michael, Frank
 COEUR D'ALENE—Carscallon Bros.
 Kreig, E. M.
 LEWISTON—Madgwick, H. T.
 TWIN FALLS—White, Ernest

ILLINOIS.

ALTON—Mulville Bros.
 AURORA—Briggs, E. D.
 Conklin Construction Co.
 Doan & Ambruster (Large)
 Frisch, Nicholas
 Graham, W. H.

Hawkes, P. F.
Heitkotter & Sons
Little, Jas.
MacKimmie, Jno. (Large)
Sylvester, Lewis & Son (Large)
BELLEVILLE—Ehlinger, Emil
Reeb Bros.
BLOOMINGTON—Evans, J. W. Sons Co.
Greenlee, Tyler T. (Large)
Walsh, Michael (Stone)
CAIRO—Carroll Contracting Co.
Ferguson, Frank
Fraser, A. S.
CANTON—Pool & Sweet
CHAMPAIGN—English Bros.
Showers & Loper
CHARLESTON—Muchmore, C. B.
CHICAGO—Abbau, Geo., 3549 S Western av
Adler, Chas., 214 E Chicago av
Adsit, W. R., 716 W Madison
Allan, George & Co., 725 W 69th
Allison & Golbeck, 115 Dearborn
Almquist, Jno. K., 735 W 61st pl
American Mfg. & Construction Co., 1525 N Ashland av
Anderson, Adolph, 5765 Wentworth av
Anderson, Aug., 2858 N 4th av
Anderson, A. & E., 131 LaSalle
Anderson & Wold, 1662 Kamerling av
Annand, Thomas, 5331 Cottage Grove av
Appel, Henry & Son, 172 E Washington
Armstrong, C. D., 6735 Lafayette av
Ashbeck, L. A. & Co., 1422 Greenwood Ter-
Ashton & Son, 112 Clark race
Asplund, Emil R., 3241 Cottage Grove av
Avery, William, 404 Superior
Bach, Ole S., 265 Superior
Barnard, W. E. & Son, 112 Clark
Barten & Son, 835 W Chicago av
Baldwin, M. E., 204 Dearborn
Barr, Jno. F., 3447½ Indiana av
Barry, W. H., 164 Dearborn
Barry, M. & Son, 220 Illinois
Bartell, William, 161 E Washington
Bartzen, Peter, 2222 Lincoln av
Baudler, Geo., 5141 S Campbell av
Beahan, Jno. J., 168 E 53d
Behrer & Benson, 220 63d
Bell Bros., 138 Washington
Bell & Neeson, 5324 Union av
Bellie, Avile M., 112 Clark
Bergemann & Sons, 597 N Wood
Beste & Casati, 1231 George
Bienvolt, Antonio, 121 Edgemont av
Birkhoff, Geo., 577 W Adams
Bishop, Harry A., 218 La Salle
Bostrom & Olsen, 1988 N Clark
Brahm, Valentine C., 285 N Homan av
Brawner, John W. & Son, 339 W 46th
Brinkman, William, 137 School
Brisch Bros., 1011 Douglas boul
Brown Bros., 380 Dearborn
Brown, Chas. H., 1662 Fulton
Brown, F. E. & Co., 215 Dearborn
Brown & Read, 140 Dearborn
Brust, Michael A., 406 S Robey
Buck, A., 289 41st
Buck, Niels & Co., 145 La Salle
Bulley & Andrews, 115 Dearborn
Burlin & Wagner, 272 W Lake
Burns, Thos., 687 W Lake
Busch, Rud. J., 574 E 47th
Buskett, Frank E., 3509 Calumet av
Byrne, M. P. Cons. Co., 88 Washington
Byrne, Thomas, 5502 S Halsted
Cameron's, W. H. Sons, 2625 W Harrison
Campbell, Archie M. Co. (Large), 132 La
Campbell, Murdock, 112 Clark salle
Carlsen & Lynn, 6809 Yale
Carlson, Albert, 203 E 37th
Carlson Bros., 1828 Indiana av
Carlson, Claus A., 85 Dearborn
Carnegie, J. L. & Son, 85 Dearborn
Carson, C. E. & Co., 159 La Salle
Carter, Wm. G., 138 Washington
Chalstrom, A., 180 E 53d
Chamberlain, T. T., 238 E 33d
Champion, Henry, 350 Park av
Chapman, Charles, 84 La Salle
Chegwiddden, Thos., 7850 Wallace
Chelius, Fred'k N., 7608 Saginaw av
Chevalier, Louis G., 61 Ogden pl
Chicago Building Repair Co., 79 Dearborn
Christensen, Christian, 7316 Yates av
Christy, G. R., 266 E 35th
Clark, A. R. & Co., 1st Nat. Bank bldg
CLARK, C. EVERETT CO.
(Large), 100 Washington. (See adv. in-
dex, end of book)
Clifford & Son, 655 37th pl
Cockburn, James, 205 E 44th
Cohlgraff, Henry, 208 Webster av
Collins, Chas. W., 61 S Paulina
Collings, W. J., 646 W Madison

Collins & Morris, 138 Washington
Constantine, Albert W., 95 Washington
Cooper, Douglass A., 2725 Calumet av
Copp, Gideon A., 211 Rush
Cordes, Henry, 758 Lincoln av
Cormaek, Jos., 145 La Salle
Couleur, John B., 435 N Robey
Crawford, A. M., 795 W Van Buren
Crear, Wm., 99 W Randolph
Crilly, Daniel O., 6527 Intleside av
Crilly, Frank L., 167 Dearborn
Cripe, Simon H. & Co., 4238 Milwaukee av
Croake & O'Brien, 145 La Salle
Crook, Edwin (Large), 4004 Cottage Grove
Cullen, Geo. P., 7 La Salle av
Custodis, Alphons Chimney Construction
Co., 204 Dearborn
Cutler, L. C. & Co., 524 W Madison
Daegling, Arthur V., 9000 Houston av
Daniels, Oscar & Co., 79 Dearborn
Danielson, Charles O., 10061 av L
Daubenspeck, John W., 441 W 63d
Dearborn Cut Stone Co., 6100 Lafayette av
De Boer, Germ., 222 Washington boul
Degerman, Axel, 84 La Salle
De Laby, Julian A., 776 N Fairfield av
Denton, John, 3564 Cottage Grove av
Desmond, Owen E., 2106 Wabash av
Dettmers, Hy., 442 N Clark
Dewar, Wm. A., 5509 Kimbark av
Diegley, Albert F., 178 E 37th
Diehl, John E., 450 W 63d
Doherty, Frank E. (Large), Chamber of
Commerce bldg
Doolan Bros., 4710 Wabash
Dornfeld, John F., 134 Van Buren
Doyle, David H., 888 Douglas boul
Dresser, Van S., 108 La Salle
Dunbar, E. L., 113½ Lincoln av
Du Pilssis, Eugene, 811 E 64th
Dusil, Richard, 1262 S Trumbull av
Earl, Johnson, 234 N Park av
Edis, John T., 5525 W Lake
Egerter, J. G., 12 Throop
Ehrhart, W. G., 3742 Cottage Grove av
Ellenberger, H. Co., 153 La Salle
Elsenberg, J. W., 13 Laflin
Erickson, Bros., 1244 Argyle
Ericson, Axel L. (Large), 145 La Salle
Ericsson, Hy. & Jno., 84 La Salle
Erikson, Oscar, 87 E Washington
Erlandson Bros., 1469 W Chicago av
Ewen, John M. Co., The Rookery
Fader, Alexander, 6400 Ingleside av
Falkenan Cons. Co., 108 La Salle
Farrell, J. & Son, 547 Prairie av
Faust, Andrew, 835 N Park av (A)
Federal Improvement Co., The Rookery
Feudl, Louis, 787 Millard av
Findlay, Alexander, 112 Clark
Findlay, John S., 7006 Perry av
Fitton, Joshua, 80 E 35th
Flick, John P., 1240 Montana
Ford & Phillips, 18 Lomax pl
Forrer, Hy., 3904 Indiana av
Fortin, Eugene, 95 Dearborn
Forst, Anton, 1152 S St. Louis av
Foster, Thos. D. & Son, 291 Millard av
Fox & Klippel, 324 Dearborn
Frank, Chas. H. & Co., 78 La Salle
Freeman, Daniel, 138 Washington
Frost, Chas., 15 S Clark
Fuller, Geo. A. Co. (Large), Marquette bldg
Furst, Louis, 43 S Marcus
Galbraith, Thos. B., 2130 Indiana av
Gardner, J. T., 153 21st
Gareau, Cesaire, 875 W Harrison
Gawne, Daniel, 3133 Princeton av
Gebhardt, Hy., 333 5th av
Gebhardt, Jno. & Son, 160 Orchard
Gerten, Jno., 561 Cleveland av
Gilbert, Harry S., 232 Lunt av
Gillard, James, 145 La Salle
Gilmore, Wm. W., 76 N Franklin
Gilsdorff, Henry & Sons, 163 Randolph
Gillespie & Sutherland, 7251 Rhodes av
Gindele Bros. & Co., 112 Clark
Gitzen, Matthew, 5542 Union av
Glass, Chas. B., 2853 N 44th av
Goetzinger, Wm., 92 La Salle
Goldacker, Herman, 395 W Ravenswood pk
Gomoll, Ernest W., 3116 Lowe av
Gore, W. K., 145 La Salle
Grady, Michael, 379 S Winchester av
Grant, Frank W., 111 S Lincoln
Gray, Nathaniel B., 12 Laflin
Green & Carlson, 112 Clark
Gregory, Jno. R., 56 5th av
Gressman, Herman, 3625 S Hamilton av
Gross, Jno. W., 131 La Salle
Guthrie, Robert M., 1556 Park av
Haeger, A. & Son, 342 W Huron
Haigh, Jos., 204 Dearborn
Hamilton, Jno., 857 72d pl

Hammond, Jno. & Co., 95 Washington
Hansen, Andrew H., 323 92d
Hansen Bros., 445 N Clark
Hanson Bros., 59 Dearborn
Haskins, John H., 1462 Roscoe
Hawes, Albert E., 432 N Pine av
Hayes, D. H. Co., Marquette blk
Heath & Port, 2810 S Park av
Heck, Joseph D., 1311 W 104th
Heinkel, Adolph, 10437 Avenue N
Henderson, Erin D., 12134 Eggleston av
Hendricks, Chas. H., 6221 S Ashland av
Hendry, Alex., 131 N Franklin
Hennessy Bros. Co. (Large), 95 Dearborn
Henney, D. W. & Co., 55 W Jackson boul
Heuser, Wm. A., 554 Orleans
Hibbs, Wm. R., 86 Custom House pl
Hill, Albert, 217 E 37th
Hinchliff, Geo. Co., 188 Madison
Hodges, T. M. L., 189 32d
Hodgson, G. S. & Son, 88 Evanston av
Hoffman, W. L. & Co., 246 W 47th
Homewood, Harry, 112 Clark
Hoppe, Gustav, 1282 S Lawndale av
Horsman, Edw., 86 W Jackson boul
Hough, A. G., 6750 Emerald av
Hughes, Hngh, 1499 Washington boul
Hughes, Wm., 243 S Lincoln
Hunter, Samuel M., 5643 Jefferson av
Huntsman, Calvin, 168 S Jefferson
Hynk, Edw., 487 43d
Industrial Cons. Co., 54 N Clinton
Ingham, M. M., 495 E 63d
Ivens, Edw., 368 Belden av
Iverson, E. & Sons, 189 La Salle
Jackson, Wm. S., 6643 Ingleside av
Jacobs & Nottelmann, 63 Canalport av
Jaergermann, Aug., 1343 E 75th
Jeffrey, John, 79 Dearborn
Johnson, Arvid, 6517 Rhodes av
Johnson, Chas., 1320 Sheffield av
Johnson, E. J., 1315 Newport av
Johnson, G. A. & Son (Large), 153 La Salle
Johnson, Jno. A., 20 S Hamilton
Johnson, Jno. H., 145 Van Buren
Johnson, John Q., 3575 N Clark
Jones, F. C. & Son, 68 E 26th
Jones, Griffith, 438 W Jackson boul
Jones, R. Heber, 6936 Princeton av
Jones, Wm. R., 240 San Francisco av
Joslin, Burt B., 3833 Elmwood av
Joslyn Bros., 145 La Salle
Jung, Peter F., 365 Burling
Jyreh, Karl E. (Large), 694 Fulton
Kalchbrenner, Jno., 138 Washington
Kasofsky, Jacob, 473 W 12th
Kavanagh, Jno., 171 N Clark
Kayerod, William, 334 S Western av
Kebill, Jos. B., 120-26 Eggleston av
Ketler, Albert C., 112 Clark
Killeen, Jno., 2182 Augusta
Klpp, Fred & Co., 1459 Newport av
Kirsch, Fritz W., 598 N Clark
Klassen, Michael, 379 Orchard
Kreamer, Fritz G. H., 549 N Clark
Kruse, F. A., 6227 Carpenter
Kumke, Paul, 5635 Loomis
Kraniska & Son, 1215 S Trumbull av
Labinsky, C. W., 440 Warner
Ladd, Edward, 5507 Iowa
Lake View Building Co., 112 Clark
Lane, A. W., 153 La Salle
Langeloh, John, 571 N Lincoln
Langston, Jas., 3745 Cottage Grove av
Larocca Bros., 11 Laflin
Lanquist & Illsley Co. (Large), 393 N Clark
Laschetzke, Frank, 3118 Lowe av
Lauk & Miller, 1664 Greshaw
Laver, Frank C., 1327 S Millard av
Leafgreen Construction Co. (Large), 145 La
Salle
Leafgreen, Hans (Large), Chamber of Com.
Ledgerwood, A. J. C., 184 La Salle bldg
Lee, Jacob N., 4105 Cottage Grove av
Legge, David E., 1341 W Ravenswood pk
Lewis, E. & Son, 1907 Indiana av
Liljestrom, Aug., 5752 S Peoria
Lindstrom, F., 221 E 47th
Liver & Rampenthal, 112 Clark
Lobstein, Jno. G. Co., 459 W 21st
Londelius, C. A., 5850 Indiana av
Lord, Eugene L., 6731 Parnell av
Lotz, Philip, 58 Wabash av
Lowes, F. J., 375 S Clark
Lund, Abraham, 271 W Huron
Lutz, John, 5629 Wentworth av
Lynan, James & Co., 59 Clark
Lynch, Jas. J., Chamber of Commerce bldg
Lynch, T., 619 W 12th
Lyons, John J., 1801 Lexington
McArthur, P., 340 5th av
McAvoy, Jas. B., 5144 Indiana av
McCall Bros., 134 Monroe
McCarthy, J., 312 E 57th

McCarthy, John H., 84 La Salle
 McCarty Bros. (Inc.), 134 Monroe
 McCumbert, Wm., 112 Clark
 McDermott, Jas. J., 236 Blue Island av
 McDonald, D. G., 1440 Wabash av
 McDouald, Henry, 3238 Wentworth av
 McKay, Donald, 1305 S Harding av
 McKeand, Edw., 326 55th
 McKeown Bros. (Large), 4817 Cottage Grove av
 McLachlan Building Co., Pullman av c
 McLean, M. H., 4321 Lake av 112th (P)
 McLennon, H., 1st Nat. Bank bldg
 McNamara, M., 3621 S Paulina
 MacPherson, A. Scott, 4340 Champlain av
 Major & Wheatley, 541 W 69th
 Mahloch, William, 1515 Wabash av
 Mahneke & Rhode, 369 Orchard
 Marquardt & Brunke, 138 Washington
 Marshall, Emery F., 2595 W Ontario
 Martin, G. R. & Son, 1650 N Clark
 Masek, Frank, 1096 W 19th
 Maurer, John E. & Co., 2804 Calumet av
 Maurer, Samuel, 749 W 61st
 Mayor, Wm. Co., 164 Dearborn
 Maynard, E. W., 439 W 64th
 Meagher, Arthur, 226 La Salle
 Meeker, Chas., 2206 Indiana av
 Meiling & Walther, 84 La Salle
 Menke, Hy. & Son, 112 Clark
 Merritt, Charles, 250 Michigan av
 Meyer, Herman P., 32 N State
 Miles, Jas P., 152 S 45th
 Moe, Ingwald, 138 Washington
 Moeller, Ernst, 5920 Emerald av
 Mole, Robert, 1289 Lexington
 Moore, Chas. W., 125 La Salle
 Moorhouse, Jas. F., 1870 N Hamilton av
 Moreland, Hugh D. Co. (Large), 97 Clark
 Morley, Wm., 184 Washington
 Morrice & Barron, 125 La Salle
 Morrison, George, 108 La Salle
 Morse, Allan C., 3503 State
 Mortenson, Justus, 5625 Princeton av
 Mortimer, Frank G., 189 La Salle
 Moses, C. A. Cons. Co., 138 Washington
 Motschman, Albert, 188 Madison
 Mueller, Carl R., 138 Washington
 Mueller, Herman, 138 Washington
 Mueller, Oskar, 138 Washington
 Mueller, Paul, 156 Lewis
 Murphy, Malachi, 5315 Wabash av
 Nash Bros., 84 La Salle
 Nelson, Chas., 192 W Huron
 Nelson, C. H., 1298 Sheridan rd
 Nelson & Lewin, 84 La Salle
 Nelson & McLeod, 84 La Salle
 Newhouse Co., 115 Dearborn
 Nicely, Geo. W., 640 W 64th
 Nicholson, Thomas, Manhattan bldg
 Nielsen, S., 424 W 71st
 Nisbet, Alex. L., 415 Clark
 Norwood, C. L., 190 E 39th
 O'Brien, Thomas, 3640 Wabash av
 Ockerlund, Nils & Son, 88 W Montrose av
 Olsen, Vilgo F., 1031 Morse av
 Olson, Bros. & Co.
 Olson & Larsen, 3941 Indiana av
 Orser, D. M., 366 37th
 Overland & Wallace, 566 Carroll av
 Overstreet, Harry E., 115 Adams
 Paddock, B. A. & Co., 115 Dearborn
 Parker, John & Son, 801½ W Madison
 Patterson, Wm., 942 W Monroe
 Pauly, Nicholas, 2208 Archer av
 Pease, Frank J., 2767 N 42d ct
 Pecchia & Co., 33 Wendell
 Perkins, Clarence, 1901 W Lake
 Peters, A. E. & Co., 126 Quincy
 Peters, Thomas J. & Co., 135 Adams
 Petersen, F. E., 202 E 25th
 Petersen, H., 3226 State
 Petersen, John C. M., 1099 W Fullerton av
 Petersen, Niels H., 1562 N Kedzie av
 Peterson, John & Co., 153 La Salle
 Petterson, Erick G., 5762 Wentworth av
 Phimster, David G., 539 Flournoy
 Pilditch, Edwin J., 7409 Princeton av
 Pillinger Bros., 109 N Park av
 Prendergast, T. J. & Co., 138 Washington
 Prescher, Jno., 828 Girard
 Pruss, John, 1455 N Sawyer av
 Pruitt & Moore, 125 La Salle
 Puvogel & Schlddel, 1429 Dakin
 Ramcke, John, 112 Clark
 Rasmussen, Hans, 54 S Seeley av
 Rasmussen, N. A., 225 46th
 Rauen, Matthew, 615 Edgewater pl
 Read, Chas., 159 La Salle
 Reagle, Frank A., 12000 S Halsted
 Richards, Owen D., 264 Oakley av boul
 Ritchie, C. J. & Co., 91 Dearborn
 Rlx. P. K., 4309 Langley av
 Robinson, J. C. & Son, 122 Monroe

Rodatz, Jacob, The Rookery
 Romag, Hubert, 932 W 52d
 Rouey, William, 557 Mouadnock bldg
 Rodatz, Jacob, The Rookery
 Rogan, J. J., 776 E 43d
 Rosenthal, O. W. & Co., 9 Jackson boul
 Ryan, Wm. J. & Co., 112 Clark
 Salomon, M. & Co., 119 Monroe
 Salomon, W. E. & Co. (Large), 159 La Salle
 Samuelson, Andrew J., 283 Belden av
 Samuelson Bros., 3733 Langley av
 Sanders, David W., 4069 Princeton av
 Schleyer, Chas., 6919 S Elizabeth
 Schlueter, Henry W., 204 Dearborn
 Schmidt, J. F. Bros. & Co., 97 Clark
 Schmidt, Joseph & Co., 5655 S Ada
 Schneider, George, 2441 Wentworth av
 Schoening & Radloff, 10520 Torrence ave
 Schultz, Hy., 84 5th av
 Scott, John, 4211 Champlain av
 Scott & Hunter, 91 Dearborn
 Scouler Contracting Co., 108 La Salle
 Scown, Wm. J., Building Co., 115 Dearborn
 Scribner, Gilbert H., Jr., 184 La Salle
 Severin, N. P., 99 E Washington
 Seward, Emanuel, 405½ Center
 Seymour, Jas. W., 296 Washington boul
 Shand, Alexander, 6926 Parnell av
 Shank Co., 108 La Salle
 Sheldon, Jas. Co., 92 La Salle
 Sherman, J. J., 375 Dearborn
 Shields, R. P. & Son, 121 La Salle
 Siebold, Fred'k A., 1639 Brompton av
 Siebold & Meunkirchen, 112 Clark
 Simmons, J. L., 2154 W Madison
 Sinclair, Jas. H., 1080 W Harrison
 Skoglund, Aug. H.
 Smith, H. S., 2327 N 41st ct
 Smith & Son, 942 W Adams
 Snyder, Jno. W. (Large), 160 Washington
 Soderlund, Olof, 3006 Cottage Grove av
 Sollitt, Oliver Co. (Large), 164 Dearborn
 Sorensen Bros., 188 Madison
 Soukup, Peter, 1168 S St. Louis av
 Spear, Henry H., 1052 W Irving Park boul
 Spiering, Edward D., 3747 Rhodes av
 Sproul, Elliott W., Cham. of Com. bldg
 Stadler, Chas. H., 1073 S Hamlin av
 Stapleton & Buckel, 624 W Lake
 Stegman, C., 4624 Cottage Grove av
 Steinmueller, Louis, 343 Hudson av
 Stephens, Henry J., 374 N State
 Stephens, Isaac H., 5729 La Salle
 Stevens, Jas. H., 112 Clark
STEWART, JAS. & CO. (Large),
 Fisher bldg
 Stirton, Thos., 1195 Wilcox av
 Stocker, T., 147 E 39th
 Stockton & Hall, 7147 Harvard av
 Strnad, Joseph, 857 S Ashland av
 Stuart, Robert, 5660 S Halsted
 Stuft, Chas., 395 Dearborn av
 Sundene, Andrew, 2375 Lowell av
 Sundholm Bros., 204 Dearborn
 Swanson, Jacob, 131 La Salle
 Swelberg, Chas. E., 112 Clark
 Swiney, Wm. S., 115 Dearborn
 Swift, Geo. B. & Co. (Large), 188 E Madison
 Tank Bros., 4240 Michigan av
 Taylor, John R., 112 Clark
 Thebault, Frank, 6324 Madison av
 Thompson, John C., 112 Clark
 Thompson-Starrett Co. (General Building
 Construction, Railway Exchange bldg
 Thompson, William, 6804 Union av
 Thomson, G. & Son Co., 145 La Salle
 Tippet, Samuel D., 204 Dearborn
 Todd, Jas. & Co. (Large), 145 La Salle
 Toney, Frank C., Monadnock bldg
 Tregay, J. F., 307 Walnut
 Tubbs, Nathan, 21 Quincy
 Tucker, Fred J., 414 N Pine av
 Tullgren, Mauritz S. & Co., 154 La Salle
 Turnbull, G. W., 84 La Salle W
 Turner, F. A., 4786 N Clark
 Turner & Co., 12 Loomis pl
 Turnes, W. J. Co., 167 Dearborn
 Van Etten Bros., 2540 111th
 Veberg, Chas. G., 149 W 109th
 Vermeer, Richard, 5142 Lake av
 Vermeersch, Emil, 423 W Diversey boul
 Vibert, Chas. M., 236 S Oakley av boul
 Waful & Heuchler Co., 204 Dearborn
 Wakefield, Ole A., 215 E Washington
 Walker, Mathias, 85 Dearborn
 Wallin, Peter, 235 Honore
 Walsh & Masterson, 97 Clark
 Walther, Ferdinand, 172 Washington
 Warner Construction Co., 112 Clark
 Warren Construction Co., Monadnock block
 Warren, Wm. H. Mfg. Co., Blackhawk &
 Watson, Wm., 1208 Lexington Smith av
 Watts, Joshua, 188 Madison

Watts, R. W., 4309 Berkeley av
 Webb, Geo. A., 55 S Morgan
 Webbe, S. E. Co., 169 Jackson boul
 Weber, B. F. & Co., 4256 N Clark
 Wedekind, Aug., 5807 Henry
 Wedeles, Solomon, 4920 Ellis av
 Wehrmann, Max, 274 5th av
 Wehrwein, Albert C., 6428 Vermont av
 Wehrwein, William G., 1377 W 72d
 Welck, L. E., 451 Cleveland av
 Wells Bros. Co. (Large), Monadnock blk
 Wells & Campbell, 499 W 19th
 Weston, Uri W., 1438 Perry
 Westberg, Carl, 6142 Bishop
 White, Peter, 678 W 14th
 Whittaker, Herbert, 3523 Archer av
 Williams, Geo., 112 Clark
 Williams, William H., 157 S Sacramento av
 Winterson, William, 88 N Oakley av
 Wise, Emory C., 145 La Salle
 Wolfe, W. J., 6707 Yale av
 Wolff, Paul T., 10258 Avenue H
 Wolfinger, Clarence I. (Large), 226 La Salle
 Wood, A. E., 85 S Wood
 Wood, Geo., 108 E 53d
 Woodley, Walter, 6250 Michigan av
 Woodley, Wm. T., 902 60th
 Woodruff, Edmund F., 583 S Spaulding av
 Woodard, J. W., 280 E 43d
 Woodyard, Alfred, 5510 Kimbark
 Woodyard, Jas., 5624 Lake ave
 World & Corcoran, 169 Jackson boul
 Wuller, Jno. & Co., 4349 Cottage Grove av
 Yawger & Co., 138 Washington
 Young, Wm., 4537 Cottage Grove av
 Ytterberg, Chas., 1236 W 61st
 Zadeck, B. M. Co., 135 Adams
 Zetterlund, Gustave, 41 Walton pl
 Zulewsky, Jno., 5345 Drexel av
COLLINSVILLE—Vuitech, Jos.
DANVILLE—Davis, Mitchell & Co.
 Fairchild, J. N.
 Gillespie, C. H.
 Gillespie, Lowell
 Krauel, F. L.
 Krauel, Herman
 Moore, L. M. & Son, 820 N Vermilion
 Pendergast, Thomas (Brick)
 Ramsey, F. H.
 Schingel, Jos., Jr.
 Yeager & Son
DECATUR—Brooks, B. S.
 Parke, V. H. & Son Co.
DE KALB—Spicer, L. D.
DIXON—Grieg & Baum (Large)
 McAlpin, W. J.
 Rink, Wm. H.
 Uhl, E. E.
DOWNERS GROVE—Woltersheim, H. H.
 Worley, J. W.
EAST ST. LOUIS—Bosquit, W. C.
 Gray, C. L. Construction Co.
 Hill, Wm. H.
 Inter-State Contracting & Supply Co.
 Way, Clark H.
ELGIN—Bosch, Jno.
 Boston & Shannon
 Huber, Gottlieb
 Logan & Gieritz
 Jevsen, Henry
 Judy Bros. (Large)
 Kenyon Bros. (Large)
 Lind, Jacob & Son
 Marckoff Bros. (Large)
 Palm, Lora Eric (Large)
 Seiger, Henry W.
 Villars, Jno.
 Wilcox, W. G. (Large)
 Wright, Jno. A.
EVANSTON—Bartlett, C. T.
 Brace, L. H.
 Bradford, E. K.
 Bray, J. L.
 Connor, Jno. A.
 Connor & McCann
 Curry, T. J.
 Dupre, C.
 Foley, M.
 Lane, Oliver
 Peterson, F.
 Short, John S.
 Swanson, Nils & Co.
 Wigginton, Jas., Oak av
FREEPORT—Frisbie & Haney
 Garman Bros.
 Hamlyn Bros.
 Hinehine, J. M. & H. H.
 Kluth, August B.
 Rocky, Thomas U.
 Rubendall & Lattig
GALENA—Toepel Bros.
GALESBURG—Chalstran, E. A.
 Dahlberg, John J. (Large)
 Davidson & Rundquist (Large)

Miller, Chas. (Large)
 Olson, Peter T. (Large)
 Zitterholm, Emil J.
 GENESEO—Larson, Peter
 GRANITE CITY—Draper, C. L.
 HARVARD—Butts, Albert
 Ward, W. H. & Son
 HARVEY—Bloodgood, J. C.
 HIGHLAND PARK—Berube, Louis N.
 Clow, Fred
 Laing, Edward M.
 Obee, Wm. J.
 HINSDALE—Bucholtz, Henry
 Froscher, Adolph
 Johnson, Wm. (Large)
 JOLIET—Bannon, P. R.
 Bryant, W. H.
 Campbell, Geo. M.
 Groth, Adam & Co. (Stone)
 Pease, S. B.
 Seeley, John
 Tunny, Wm.
 Wenberg & Wenblad
 KANKAKEE—Alberts, M., Jr.
 Dufault, Nelson
 Paullssen, J. P.
 Stenard, E. J.
 KEWANEE—Bredt, Wm.
 Gofert, Fritz
 Granquist, Nels
 Gutschlag, Cove
 McFarland, C. W.
 LA SALLE—Burdick, L. A.
 Culver, Chas.
 Goodman, E. & Co.
 Hartnett, Michael F.
 Hoffman, Henry
 Noonan, J. F.
 LINCOLN—Hungerford, W. (Large)
 Simpson, J. A. (Large)
 MATTOON—Loomis & Rose
 MENDOTA—Bierworth, H.
 MOLINE—Brandt, Swan J.
 Carlson, Axel
 Daehelliehn, Wm. P.
 Gust, Ed. & Sons (Large)
 Heaps, Clarence E. (Large)
 Lorenz, Paul H.
 North, Chas. C. (Large)
 Peterson, Peter (Large)
 Peterson & Johnson
 Safe & Anderson
 Thompson, Frank C.
 MONMOUTH—Cochran, A. W.
 Davis, Geo. B.
 Duan, A. W.
 Fellman, W. E.
 MURPHYSBORO—Smith, A. L.
 NORMAL—Sylvester, Thos.
 OTTAWA—Glen, Jno.
 Kerste, A. & Co.
 McCormack, Jno. C.
 Sanders Bros. Mfg. Co. (Large)
 Sinnott Bros. (Large)
 PAXTON—Denman, D. D.
 PEKIN—Albrecht, E.
 Conklin-Reuling Co.
 Evans, Henry
 Jansen & Zoeller (Brick)
 Lamplitt & Lamplitt
 Saal & Brooking
 Skaggs, J. M.
 Zimmer, E. & Co.
 PEORIA—Allen, Wm. M. Son & Co. (Large)
 Bashell, A. A. & Son
 Benson, Walter F., 1203 4th av
 Coleman, A. & Sons, 802 E Nebraska av
 Coleman, W. H. Contracting Co. (Large)
 Crescent Contracting Co. 802 Main
 Fardon Bros., 111 N Glendale av
 Flinn, John L. (Large), 124 S Washington
 Hoffman, Louis J.
 Jobst, Jacob J., Masonic Temple
 Jobst, V. & Sons
 Kammerer, Charles, S15 5th av
 McDonald & Co.
 Meultz, Fred
 Schwerm, J. H. William (Brick & Stone)
 Seehaas, William F., 926 Main
 Thompson, Almon D.
 Wall, Wm. G. & Son, Aiken av nr Sterling
 PERU—Boeckling, C. M.
 Elderbrook & Hoshlitt
 Koehler, Fred'k A.
 PRINCETON—Hed, John
 Nelson & Swanson
 Omer, Charles
 Stein, Henry
 QUINCY—Brackensick, John (Brick), 601 S
 Brinks, Henry, 521 N 16th 13th
 Buerkin & Kaempfen (Large), 500 6th av, S
 Dleker & Son, 916 Jersey
 Dunker, Jos. H., 1103 Lind
 Pick, Adam, 416 S 10th

Heidbreder & Weiss, 1405 Ohio
 Konefes & Son (Brick), 206 S 12th
 Lange, Geo. & Son (Large), 813 S 11th
 Lux, Ernst, 601 S 12th
 Menke, F. W. Stone & Lime Co. (Large)
 Meyer, Christian, 908 State
 Roehl, Anthony M. (Large), 1606 Spring
 Schachtsiek, Herman H., 629 Washington
 Schmits, Gerhard, 1137 N 11th
 Schutte, Wm., 830 Adams
 Shanahan, James J., 732 Jersey
 Steinhach Bros. (Large), 219 Jersey
 Vonderhaar, Geo. C. (Brick), 1330 Spring
 Walterkette, Albert J., 1110 Chestnut
 ROCKFORD—Keyt, W. A.
 Monteith, J.
 Reitsch Bros. Co.
 Rockford Builders Supply Co.
 Schmeling, Emil M.
 Winchester, Thos. (Stone)
 ROCK ISLAND—Anderson, Aaron
 Anderson & Johnson
 Blankenburg, Gustaf
 Bleuer, Frank
 Collins Bros. (Large)
 Hohenboken, Dietrich
 Horst, Henry W. (Large)
 Hudson & Collins (Large)
 Kennedy, David J.
 Kononsky, John H.
 Leaf, John G.
 McConochie, Wm. & Sons (Stone & Brick)
 Paulsen, Henry F.
 Sievers, Jasper
 Tappendorf, Henry
 Toun, Chas. H.
 Verhale, Modest A.
 Volk, Jno. & Co. (Large)
 SPRINGFIELD—Culver Construction Co.
 De Vares, D. A., 211 E Capitol av
 Gehlman, Fred'k (Large), 223 S 3d
 Irwin, L. L.
 McCabe, John P.
 Rape, John W.
 Sime, John, 710 E Jefferson
 Wilson, Jno. F.
 STREATOR—Hoffman, Jos.
 Schmid, Geo. A.
 SYCAMORE—Anderson, A. W.
 Quist, Samuel

INDIANA

ANDERSON—Bickham, F. M. (Stone)
 Brookins, J. H.
 Campion & Wyant
 Daniels, Chas. H.
 Eshelwan & Son
 Kelly, Thos. P.
 Lyst, E. E.
 Savage, Chas. M.
 Thompson, W. E.
 Wright, H. C.
 ANGOLA—Maxwell, W. H.
 BRAZIL—Fitzpatrick Bros.
 Hawkins & Hawkins
 Stonehart, A. F.
 Tiefel Bros.
 COLUMBUS—Davis, Folger & Co.
 Evans, Chas.
 Everrond, Wm. & Son
 McCormack, P. H. Co.
 Robertson, Geo. M. & Co.
 CONNERSVILLE—Newman, Geo. S.
 Sylvester, E.
 COVINGTON—Brown, Chas. A.
 CRAWFORDSVILLE—Bishop, J. M.
 Carr, W. C. & Son
 Doyle, Albert R.
 Irwin, O. C. & Co.
 Johnson, John
 Morrow, E. M.
 Nolan & Slatery
 Pennefather, E. J.
 Richard, D. L.
 Shelley, Geo.
 Speed, Sidney
 Stout, Geo.
 Waugh, Jas. M.
 Wert, M. V.
 DELPHI—Clauser, W. H. & Sons
 O'Connor, Jno. C.
 ELKHART—Bushnell, G. B. & Co. (Large)
 Duncan, G. I.
 Helpin, Frank
 Kautz, Louis M.
 Kistner, Geo. C. (Large)
 Moyer, A. H.
 Pletcher, Jno. A.
 Thomas, Fremont
 Welter, L. H.
 West, William
 Yost, John
 ELWOOD—Digel, S. H. (Stone)
 Douge, L.
 Hicks, W. R.
 EVANSVILLE—Anderson & Veateh
 Bedford & Nugent
 Caden Stone Co. (Stone)
 Hollerbach & May Contracting Co.
 Kauzler, Christ. & Son
 Scarborough-Davies Co.
 Stinchfield & Reichert
 FORT WAYNE—Barteniek, Wm.
 Becker, C. M. Co.
 Boester, Fred. H., 1210 Fairfield av
 Borkenstein, R., 2532 John
 Brown, John O., 1614 W Main
 Fuhrman, Wm. J.
 Gallmeier, Wm., 1160 Francis
 Grotholtman, H. A.
 Henry, J. M., 529 W Jefferson
 Hilgeman, Henry & Bros.
 Irmseher & Westhoff
 Kruse & Busching
 Liebman, Ernest F.
 Moellering's, Wm. Sons
 Mollet, Henry L.
 Olds, O. L. Construction Co.
 Rump, E. H.
 Snook, Tom, 1018 Fairfield av
 Suelzer, John, 2336 Hanna
 Suter, Edward, 2515 B'way
 Tapp, Herman Construction Co.
 Tieman & Son
 Wayne General Construction Co.
 Wehrenberg & Busching, 806 Madison
 Wermuth, C. R., 512 Suttentfield
 Wery, Henry
 Wyss, P. H.
 FRANKFORT—Frankfort Brick & Cons. Co.
 Frankfort Construction Co.
 Kelleher & Shlpher
 Ross, Jno. A.
 FRANKLIN—Ferguson, Ashley
 GOSHEN—Hatch, W. W. & Son Co.
 Myers, John D.
 GREENCASTLE—Graham, R. S.
 Parker, Green B.
 Torr, J. C. & Co.
 GREENFIELD—Fry, J. L.
 Knight, J. P.
 Smith, Marshall T.
 Vaughn, W. N. & Co.
 Willey, Arthur A.
 GREENSBURG—Clasidy, B. H.
 GREENSBURG—Foley, Edward
 Lowe & Craig
 HAMMOND—Blaemline Bros. (Stone)
 Brenkus, Jos.
 Gaskill, Denton L.
 Moser, Peter
 O'Shea & Shea
 Parker, Wm. W.
 Zimmerman, Richard
 HUNTINGTON—Keefer & Bailey
 INDIANAPOLIS—American Construction Co.
 Banks & Co., 620 Mass. av
 Baumann, A. & Son, 1818 Singleton
 Baxter, J. V. & Co.
 Beard, Alvin G.
 Bedford Stone & Construction Co., Traction
 Bender, Conrad Terminal bldg
 Berger, Adams
 Brandt Bros., Builders' Exchange
 Bruner, A. & Co. (The)
 Buck, C. C.
 Cash, Richard M., 40 E Washington
 Clements, George
 Clifton, Jno. & Son, 20 N Meridan
 Cochrane, S. W. & Son
 Cornelius, Henry D.
 Cotton, M. M.
 Cralg, E. J., 611 Hudson
 Culbertson Bros., 203 N Warman av
 Despo, A. O.
 Dunn Bros., 2305 W Michigan
 Elder, Robert L.
 Elliott, Homer
 Elliott, J. T.
 Ent Bros.
 Faught, A. E.
 Foley, Daniel
 Fulmer, L. A.
 Hackedom, Hills F. & Co.
 Halstead, W. C. & Co.
 Hamilton, Chas. L.
 Henschen & Son
 Hoffman, C. H.
 Hogan-Carse Construction Co.
 Honecker, Louis J.
 Hoosier Construction Co.
 Horton, Chas. W.
 Hoss, J. D. A.
 Indianapolis Construction Co.
 Jose, G. C., 1714 Orange
 Jungelaus, Wm. P., 825 Massachusetts av
 Kane, F. E. Construction Co.
 Kattan, Wm. & Son

Kennedy, Benj. C., 1338 W 27th
 Kennedy, C. R., 1715 College av
 Kennedy, Omar R., 2924 Central av
 Kennington Bros.
 Keystone Construction Co. (The)
 Kiel, Henry O.
 Lovett, Chas. H.
 Luecking, Wm.
 Maslon County Construction Co.
 Miller Bros.
 Milliken, I. W.
 Moon & Whitesell
 Morse, T. J. & Son
 Mason & Osbon, 723 S State
 Mosley & Newhart, 2989 Station
 Noe, Nicholas M.
 Nuerge, Chas. & Co., 1217 E Ohio
 Pease & Buzatt
 Pence, Geo.
 Reinking, H. E. & Son
 Roberts, J. H.
 Sahun, Agit
 Schmidt, M. J.
 Schreiber, Fred
 Scott, David I. & Co., 924 E Washington
 Scott, W. P., 133 W Court
 Shallenberger, Alex.
 Shover, Oran D.
 Stewart, John
 Tielking, H. W.
 Trefz Bros.
 Twinane, John I. & Son
 Vincent, W. H.
 Volpp & Fritz
 Wampner, Geo. H. (Brick), 2440 Shelby
 Ward, Carey J., 5607 Burgess av
 Warren, John R., 12th & Tescumseh
 Weaver, Geo. A.
 Weddle, Andrew D., 3320 N Illinois
 Wehking, Chas. F. Co. (Brick), 124 Olive
 Wolf & Ewing
 Wourve, Frank H.
 Yaryen, J. J., Baldwin bldg
 Yawger, A. J. & Co., Fair bldg
JEFFERSONVILLE—O'Neil, Thos.
KOKOMO—Bion, Frank
 Dixon, Hunt
 Donnelly & Kellar (Paving)
 Moore & Danuer
 Watson, J. H.
 Williams, J. S.
LAFAYETTE—Boyer, S. H. P.
 Brown, George S.
 Burehby, M. E.
 Chew, Joshua (Brick)
 Herzog, Adam & Son
 Moorman, R. R. & Co.
 Sense Bros. Co.
 Stillwell, Wm. F.
 Strate & Jones
 Western Cons. Co. (Paving)
LA PORTE—Brockmann & Schneider
 Stahl, Albert J.
 Struss, Chas.
 Vankirk, Jno. P.
 Wainseott, Jos.
LEBANON—Busby, G. W.
 Miller, Tom. J.
 Shahan & McCarty
 Swiggert, Perry C.
LOGANSPORT—Barnes, Jas. I.
 Casparis Stone Co. (Stone)
 Medland, Frank
 Medland Bros.
MADISON—Cassidy, T. W.
 Donat, Wm. A.
 Forsee, John, Sr.
 Kirk, Wm.
 Schofield Contract Co. (Not Inc.)
 White, James
MARION—Barley, C. W.
 Barnes Bros.
 Benner, F. M. (Stone)
 Johnson, L. J.
 Michaels & Minnick
 Peele, Pasco
 Simmons, O. J.
 Tjulander, Edward
 Yates, Wm.
MICHIGAN CITY—Harbart, A. F.
 Ohming Bros. (Brick & Stone)
 Ohming, Wm., Sr.
 Pepple, G. W.
 Roellen, Henry
 Schneider, Aug.
MISHAWANKA—Hess & Hiner
MUNCIE—Glass, Lee M.
 Gubbins, Jno.
 Hager, O. J.
 Hathaway, Marion
 Higman, Geo. H.
 Illingsworth, Fred. & Co.
 Kiser & Williams

Leonard, J. C.
 Ludlow, J. B.
 Petro, E. S.
NEW ALBANY—Baker & Brooks
 Beeman & Schefold
 Mann, Jno. W.
NEW CASTLE—Cook, D. K.
 ElHott, S. H. & Son
 Faust, Samuel
 Garvey, Jas.
 Martin Bros.
 Moore, B. F.
 Neff & White
 New Castle Cons. Co.
 Richardson, C. J.
 Scott, Wm.
NOBLESVILLE—Adkins, John
 Durringer, John W.
 Heinzmann Bros.
NORTH VERNON—Anderson, Theobald & Co.
 Brolley, Thos. W.
 Deputy Bros. & Wagner
 Hicks, E. & Co. (Concrete Masonery)
 North Vernon Lumber Co. (Large)
PERU—Bruck, Anthony J.
 Goddall, J. B.
 Theobald, Jacob
RENSSELAER—Coen & McColby
 Donnelly Bros.
 Warren, E. G.
RICHMOND—Benfeldt, Z. & Son
 Dietrick & Haslcoaster
 Ferris, W. S.
 Johnson, B. & Son (R. R.)
 Jones, E. F.
 Louck & Hill Co.
ROCHESTER—Caffyn & Carter
 Hoffman, Fred.
RUSHVILLE—Kelly, Robert
 Redman, W. M.
 Walker, Edgar
 Winship, Morris & Son
SEYMOUR—Davis & Godfrey
 Degolyer, James
SHELBYVILLE—Ballard, A. B.
 Bols, Marion
 Gunn, Curtis (Cement)
 Powell, J. E.
 Walton, Geo. R.
SOUTH BEND—Barnes, T. C.
 Beyrer, John (Roofing)
 Burner, E. & Co.
 Christman, H. G. & Co. (Large), 125 S St.
 Co-Operative Cons. & Building Co.
 Defrees, C. H., 315 S Taylor
 Dresden & Stanfield, 407 Laurel
 Eckler Mfg. Co. (Large)
 Hammond, Hilton, 712 E South
 Hickey, Louis A. (Large)
 Hoban & Roach
 Hoffman, Geo. J., 516 N St. Joseph
 Indiana Lumber & Manufacturing Co., 742
 Kemble, Harry S Michigan
 Myers, John H.
 Neitzel, B. H., 713 W La Salle
 Nelson, James, 602 W Division
 Nelson, John
 Sieg, Christian
 Vermande, John C.
 Webster, Louis H.
SPENCER—Babbs, Geo. R.
SULLIVAN—Nichols, J. F. (Brick)
TERRE HAUTE—Abbott, C. W.
 Central Mfg. Co.
 Coffin, J. K. (Common)
 Dorsey, Wm. C.
 Foulkes-Forbes Co.
 Harris, W. H. (Brick)
 Houff, A. Dale Co.
 Kennedy-McGinnis-Whitlock Co. (Concrete)
 Kintz, P. C. & Sons
 Martin, T. J. Co.
 Miller, Jacob W. & Son
 Mitchell, Chas. W.
 Ohm, August
 Parker, T. A. & Co.
 Ranell, A. W.
 Roberts & Co.
 Schakfer, Jno. Geo. & Son
 Wabash Construction Co.
 White, Wm. J.
TIPTON—Bowlin, M. L.
 Henry, E.
 Pope, Aug. H.
 Porter & Bowlin
 Roode, F. M.
UNION CITY—Hoke, J. S.
 Steel, J. M.
VALPARAISO—Dickover, C. W.
 Smith Bros.
VINCENNES—Brown, R. A. & Co.
 Hartigan, John
 Salter-Morgan Co.
WABASH—Hipskind, Jno. & Son

Showaltee, Daniel
WASHINGTON—Brown, R. A. & Co.
 McKernan, Hugh
WINCHESTER—Moorman & Goodrich
 Sanders, A. E.

IOWA.

ATLANTIC—Aldrich, J. B.
 Dennison, Samuel
BOONE—Samuelson, E. H.
BURLINGTON—Anderson, C. A., 508 Leebrick
 Beck, H. A.
 Binder, Geo. W.
 Bokenkamp, Henry
 Burlington Construction Co.
 Dalgleish, W. S.
 Gilbert-Hedge Lumber Co.
 McLain, J. W.
 Miller, Louis J.
 Pearson & Son
 Woodcock, Clarence
 Young, N. L.
CEDAR RAPIDS—Bartlett & Kling (Large)
 Edinger, Edward (Stone)
 Loomis Bros., Kimball bldg
 Wallace, R. A.
CENTERVILLE—Centerville Brick & Material
CLARINDA—Crabill, J. M. Co.
 Welsh, W. W. (Large)
CLINTON—Curtis Bros. & Co.
 Ingwerson, Borheck & Co.
 Lake, John & Son
COUNCIL BLUFFS—Anderson Bros.
 Consolidated Construction Co.
 Gensen, Nels
 Herman, F. L.
 Jensen Bros.
 Liles & Pennell
 Morgaard, C. C.
 Peterson, Peter
 Rasmussen, Nels
 Reynolds, S. W. & Son
 Saguin, James (Bridge)
 Schneider, Thos. H. & Co.
 Sherer Bros.
 Wickham, E. A. & Co.
 Wind, P. H.
CRESTON—Creston Planing Mill
 Young, Chas. C. (Large)
DAVENPORT—Arnould, Alphonse A. (Large)
 Coen & Conway (Large), 320 Division
 Carstang, Valentine & Co. (Brick), 1540 W 2d
 Independent Construction Co., Lane bldg
 Mahan, John E., 116 W 3d
 Miekley, Albert F., 719 Harrison
 Nebergall, J. Frank, 2212 Grand av
 Neuenhaus, Gerard, 529 Jersey Ridge rd
 Osborn, C. Edwin, 1221 Harrison
 Peters, John, 1320 Warren
 Phillips & Volquardsen (Large), 1412 W 3d
 Pyle & Puls (Brick)
 Soller, John
 Steckel, A. & Sons Co., 310 W 18th
 Tri-City Construction Co. (Large), Masonic Temple
 Westphal, Wm. August F., 1323 Brown
DES MOINES—Benson & Marxer, 425 Grand av
 Cram, Frank, 505 Grand av
 East Side Plauing Mill
 Herrick, O. P., 109 Locust
 Iona Bridge Co.
 King-Lambert Construction Co., 21st
 Lovell, Walker D.
 McGorrick, Jno. B.
 Magden & Sheeley, Clapp blk
 Maine, Jas. & Sons Co., 119 Sth
 Mitchell, W. F. & Co., 116 Sth
 Stark, N. M. & Co. (Bridge)
 Turner-Roland Co.
 Tusant, J. E., 580 7th
DUBUQUE—Gregg, J. J.
 Lee, James & Son (Paving)
 Ney, Albert
 Schulte, B. & Son (Stone)
 Tibey Bros. (Stone)
EMMETSBURG—Dooley, Jno.
 Wells, Patrick R.
FORT DODGE—Boyer, J. W.
 Hansman, F. J. & Co.
FORT MADISON—Brandenberg & Currie
 Hansman, F. J. & Co.
 Nieters, Jos. H.
 Rissinger, W. A.
 Smith, A. W.
GLENWOOD—Tipton, John H.
GRINNELL—Coutts, R. G.
GRISWOLD—Huckins, E. G.
 Reed, E.
HAMPTON—Bailey, H. L.
 Crawford, B. L.
 Hunt, Samuel
 Johnson, J. W.

Kibbs, A. J. (General)
 Roberts, Stewart
 Sargent, G. E. (General)
 Simonson, O.
 Wheeler, F. F.
HARLAN—Larson Bros.
IOWA CITY—Metzinger, J. W.
 Rowson, Jas. & Son
KEOKUK—Cameron, McManus & Joyce
 Dollery & Wooley
KEOSAUQUA—Prall & Vance
OSKALOOSA—Carlson Construction Co.
OTTUMWA—Ottumwa Mill & Cons. Co.
SHENANDOAH—Dunnegan, J. J.
 Wright, T. B.
SIoux CITY—Short, B. E.
WATERLOO—Lauritzer Bros.
WEBSTER CITY—Zitterell, W. J. (Large)

KANSAS.

ATCHISON—Seip & Co.
EMPORIA—Barthel Co.
 Lewis, L. W. (Stone)
FORT SCOTT—Coe, Elmer
 Keplinger, A. L.
HUTCHINSON—Hutchinson Lumber & Planing
 Smlth, C. L. Mill Co.
 Snider, H.
 Wagner, H.
INDEPENDENCE—Addington, D. M.
 Bender, F. N.
 Philbrook & Stanton
 Riney, Wm. B.
JUNCTION CITY—Cook, W. W. & Son
 Zeigler Bros.
 Ziegler & Dalton
KANSAS CITY—Hillenbeck, E. B.
 Hirsch, Carl
 Johnson & Brown
 Lusk, J. N. & Son
 Phillips, G. W.
 Ronderbuch, G. G.
 Taylor, J. W.
 Thompson, F. A.
LAWRENCE—Carter, W. R.
 Kaufman & Honey
 Nadelhoffer, Wm.
 Stubbs, J. E. Construction Co.
LEAVENWORTH—Mexos (The)
 Stanton, M. & Co.
 Willcott, John
 Yoakum, R. B.
OLATHE—Busbong, E. E.
 West & Ekengreen
PARSONS—Cramer, Wm.
 Mcdaris, C. F.
PITTSBURG—Massman, Fred.
TOPEKA—Scheloske, Robert & Sons

KENTUCKY.

ASHLAND—King, J. M.
 Standard Planing Mill & Bldg. Co. (Large)
COVINGTON—Boyd, Mandreville
 House, C. W.
 Jones, John
 Keefer, Geo. W.
 Kieley & McDermott
 Northcutt Bros.
 Poblkamp, H. & Son
CYNTIANA—Karrick, A. C.
 Poindexter, J. R.
 Raymond Bros. Co.
DAYTON—Smith Contracting Co. (The)
HENDERSON—Bailey & Koerner
HORSE CAVE—Owens, Clarence
LEXINGTON—Batesman, W. M.
 Combs Lumber Co. (Large)
 Corbin, Frank
 Curran, Wm. & Son, 162 N Limestone
 Dalton, F. R.
 Hulett, F. H.
 Lexington Lumber & Mfg. Co.
LOUISVILLE—Bailey & Koerner, 31st & Market
 Barnes, R. A.
 Bartman, Chas.
 Bicker, Jos.
 Breslin Bros.
 Carter & Carter
 Chreste, John
 Figg, L. R.
 Gregory, Dudley (Brick), Tyler bldg
 Greiner, John
 Greiner, Tobias
 Hall, C. S. & Co.
 Harris, Robert T.
 Hercules, Geo.
 Hoffer, John
 Jeunessee, R.
 Jnst, L. & Co.
 Kentucky Construction Co.
 Kilgus, Christ. F.
 Kuadler & Fraucke

Lewman, M. T. & Co. (Large), Tyler bldg
 Markham, A. & Co. (Inc.)
 Miller, W. B.
 Minor, J. S. & Son
 Rommel Bros., 915 E B'way
 Schuman, R. A.
 Sebler, Jos. & Co.
 Steward Bros. (Carpenters)
 Steward Bros. (Construction)
 Weatherston, Thos. J.
MAYSVILLE—Lane & Easton
 Hord & Farrow
 Dea, John V. & Co.
 McDowell & Cass
NEWPORT—Covington Construction Co.
 Wilson, L. H.
 Wright, James C.
OWENSBORO—Owensboro Planing Mill Co.
OWINGSVILLE—Palmer, Oscar
PADUCAH—Agnew, J. W.
 Coleman, C. A.
 Murray, Arthur (Brick)
SHELBYVILLE—Craig, J. M.
 Gruber, L. H. & Sons
WINCHESTER—Clark Construction Co.
 Jones, J. H.
 Lucas, H. V.
 Powell, N. A.
 Wheeler, J. W.

LOUISIANA.

BATON ROUGE—Kroger, John B.
MONROE—Paillet & Kirk
NEW ORLEANS—Baehr, John, Jr.
 Booth, Thomas
 Borne, Benj. W.
 Dameron & White, Hennen bldg
 Gardner, J. H. Cons. Co., 505 Tchoupitonas
 Glover, Geo. J. (Office, Railway & Manu-
 facturing Buildings), Hibernia Bank &
 Grimm, H. F. Trust bldg
 Hebert, E. A.
 Huber, Geo. W.
 Huet, Max
 Inter-State Construction Co.
 Jefferson Construction Co. (Not Inc.)
 McCarthy, Richard, Jr.
 Markel, Jules W.
 Meyer, Henry C.
 Morse, Abram H.
 Muir & Fromberz (Large), 211 Camp
 Ridgeley Bros.
 Rodrick, John A.
 Sarre, Wm. A.
STEWART, JAS. & CO. (Large),
 Hibernia Bank bldg
 Stone, John C. (Ltd.)
 Tranchina, D. & G.
 Van Meter, W. W.
 Walther, Otto, 313 St. Charles
SHREVEPORT—Chatwin Bros.

MAINE.

AUBURN—Keene, Fred. W.
 Shaw, David T.
AUGUSTA—Burns, Ernest H.
 Fletcher & Robbins
 Jackson, Wm. W.
 Jewett & Hanson
 Nichols, J. M. & Co.
 Rollins, Thos. M.
 Wellman, Frank R.
BANGOR—Barnes, Morris & Co.
 Cowan & McCarthy
 Cutter, L. W.
 Eastman & Emerson
 Graham & Welch
 Grant, James L.
 Young, James S.
BAR HARBOR—Bunker, David A.
 Hapworth, Hubert E.
 Savage, Fred. L.
 Shea Bros.
 Small & Ingalls
 Whittaker, E. H.
BELFAST—Parker, Israel W.
 Pottle, Nathaniel J.
BENTON STATION—Brown, J. E.
BETHEL—Merrill, Edmund
 Tuell, Gilbert
BIDDEFORD—Allen, Isaac A.
BLUE HILL—Mason, Frank L.
BOOTH BAY HARBOR—Dodge, C. F.
 Holton, W. R.
 Searey, John
BREWER—Copeland, S. D.
BRUNSWICK—Gahan, William P.
 Sawyer, James E.
BRYANTS POND—Bacon, H. A.
CAPE NEDDICK—Phillips, Edward H.
 Stover, Howard M.
 Winn, Sidney D.
CARIBOU—Astle & Page
 Ireland, A. F.
CASTINE—Gardner, J. O. M.
CENTER LOVELL—Russell, Benj., Jr.
CHARLESTON—Brooks, E. R.
CHEBEAGUE ISLAND—Hamilton, Howard S.
CLINTON—Kidder, W. H.
COLUMBIA FALLS—Peterson, P. B.
CORNISH—Bradley, John
CUMBERLAND CENTER—Merrill, Wallace L.
 Frank, L. A.
DETROIT—Harris, Chas. T.
DIXFIELD—Eastman, W. O.
EAST LEBANON—Gerrish, F. H.
EAST MACHIAS—Foster, James A.
 Hall, Chas. L.
EAST MONMOUTH—Perkins, B. J.
FALMOUTH FORESIDE—Randell, L. L.
FORCKOFT—Atwood, Samuel F.
 Brown, Walter L.
FRIENDSHIP—Mitchell, John D.
 Murphy, Burt A.
FRYEBURG—Shirley, Eldon E.
FRYEBURG CENTER—Emerson, J. E.
 Farrington, C. W.
GUILFORD—Seabury, Stanley E.
HAINES LANDING—Walker, W. F.
HALE—Walker, W. F.
ISLESBORO—Pendleton, A. A.
ISLESFORD—Bryant, A. J.
JONESBORO—Fish, Chas. E.
KENTS HILL—Lovejoy, H. W. S.
KEZAR FALLS—Palmer, W. H. & Son
KINGSFIELD—Hinds, A. V.
KITTERY POINT—Raynes, Daniel
LEWISTON—Bearing & Clifford Cons. Co., 244
 Burnup, Carlisle & Anthony Maine
 Libby, Wm. A. & Son
 Sauciers, Thos.
 White, J. W. & Co. (Mill)
LINCOLN—Chamberlain, Bela L.
LISBON FALLS—Blethen, W. D.
 Philbrook, Jos. & Son
LITTLEFIELD—Silver, A. H. & G. T.
LITTLETON—Murry, Michael
LIVERMORE FALLS—Farrington, Jos. H.
 Greenwood, E. H.
 Holley, A. L.
LOVELL—Brown, W. O. & Son
LUBEC—Trecartin, Frank W.
MANSET—Dolliver, B. T.
MILBRIDGE—Leighton, Lincoln H.
 Strout, Leverett
MILLINOCKET—Rush, Frank W.
MONSON—Smith, Percy
MOODY—Hilton, Benj. H.
 Hilton, Harvey A.
NAPLES—Morris, Edward E.
NEWPORT—Josslyn, Joseph L.
 Newcomb, Chas. F.
NORTH BERWICK—Goodwin & Gerry
 Littlefield, W. B.
NORTHEAST HARBOR—Lamson & Hodgdon
 Ralph, I. E.
 Soule, James H.
 Wilson, L. A.
NORTH HAVEN—Calderwood, Henry E.
 Lermond, O. D.
NORWAY—Pike, Horace
OQUUNQUIT—Littlefield, David M.
 Littlefield, W. C.
 Perkins, Moses S.
ORRS ISLAND—Wilson, Lewis A.
PEMAQUID—Hawes, E. A.
PHILLIPS—Sargent, Samuel J.
PORTLAND—Anderson, Oliver
 Bean, Thos. C.
 Benson, Cyrus M.
 Brett, Jos. K.
 Burns, Neil A. N.
 Bryant, C. U.
 Cann, W. L.
 Cobb & Webster
 Cunningham, F. W. & Sons, 390 Congress
 Dellatorre, Norman A.
 Dunscomb, Wm. J.
 Fillmore, David K.
 Flood, Alger S.
 Hamlin, D. Edward
 Hanson, Chas. A., 191 Grant
 Hanson, Lyman W.
 Hayden & Dingwell
 Hunt, Enock W.
 Johnson, E. G. & Co.
 Johnson, Everett C.
 Leard, Jas. B.
 Libby, Joseph G.
 Libby, Summer & Son
 Littlefield, Eugene W.
 Livingstone, Philp
 Lowe, Robert B.
 McCausland, W. B.
 Maboney, John J.
 O'Rourke, Cornelius S.

Philbrook, Geo. E.
Pollard, W. H.
Quigley, J. O.
Rackley, John W.
Rich, Rufus E.
Robinson, W. O. & Son
Robinson & Miller
Rogers, Spencer & Son
Russell, Ernest E.
Shanahan, R. D.
Swanholm, Karl F. A.
Willis & Rumery
Wilson, A. C.
PRESQUE ISLE—Smith, Chas. H.
PRINCETON—Mercier, J. B. & Co.
PROSPECT HARBOR—Chase, E. D.
PROUTS NECK—Googins, Alonzo L.
RANGELEY—Hoar, Anson M.
Jacobs, Frank
RAYMOND—Strout, Fred L.
READFIELD—Sedgely, F. C.
RIDLONVILLE—Dunn, Isaac H.
ROCKLAND—Falc & Simmons
Sherman, Geo. A.
Stanley, F. A.
Ulmer, O. E.
SANGERVILLE—Rollin, F. E.
SCARBORO—Higgins, Walter S.
SEAL HARBOR—Candage, B. W. & Sons
SEARSPORT—Wentworth, Edwin J.
SKOWHEGAN—Clough, Wm. A.
Puritan, Horace Co. (Large)
Reed, Horace E.
SMALL POINT—McIntire, C. H.
SORRENTO—Foster, N. P.
SOUTH BRIDGETON—Gamage, Warren L.
Johnson, D. C.
SOUTH BRISTOL—Gamage, L. A. & Son
SOUTH FREEPORT—Curtis, Reuben B.
Jones, H. E.
SOUTH HANCOCK—Smith, Rodman C.
SOUTH PARIS—Murch, J. M.
SOUTH PENOBSCOT—Gray, W. L.
SOUTH PORTLAND STATION—Dyer, O. G.
Forgume & Romana
Hoyt, Jas. D.
Marshall, Frank H.
Newell, Hnbard F.
O'Neil, James H.
Paige & Conary
Rowe, Ansel B.
SOUTHWEST HARBOR—Tracey, Henry
SOUTH WINDHAM—Files, Herbert G.
SPRINGVALE—Chamberlain, F. J.
STANDISH—Elwell, W. H. C.
STEEP FALLS—Shaw, S. S.
SULLIVAN—Workman, Henry S.
THOMASTON—Beverage, John T.
TREVETT—Gove, Allen
UPTON—Abbott, Hallis I.
WATERVILLE—Cary & Parent
Harris, John A.
Kidder, Chas. B.
Witham, E. Payson
WAYNE—Berry, J. B.
WEST HARPSWELL—Merriman, Leon B.
Randall, Wm.
Stover, Calvin F.
WEST JONESPORT—Noyes, W. L.
WEST KENNEBUNK—Clark & Jones
Grant, Randall J.
WEST TRENTON—Hopkins, E. A.
WINTER HARBOR—Grover, Chas. E.
Joy, Fred. V.
Smallidge, J. L.
Weston, Frank E.
WINTHROP—Bishop, Frank I.
Stevens, H. W.
YORK—Goodwin, E. Everett
YORK BEACH—Bean, M. Q.
Leavitt, F. P.
YORK CORNER—Brewster & Grant
Booker, S. B.
YORK VILLAGE—Balentine, Elijah
Sewall, Noah M.

MARYLAND.

ANNAPOLIS—Feldmeyer, Wm. E.
Gardner, Wm. B.
BALTIMORE—Balto Erecting Co.
Bennett, B. F., 123 S Howard
Bennet, Rufus & Son
Brady, Edw. & Son, 915 Park av
Brady, J. P.
Brown, Leonard
Bunnecke, Geo. & Son, 305 St. Paul
Butzler, Wm. & Co.
Callaway, Frank H.
Carroll, Aquilla M.
Davis, Jacob C., Jr.
Decker, Fred & Son, 1200 E Biddle
Flagg, Wm. F.
Forrester, John R.

Fuller, Geo. A. Co., Hoen bldg
Graf, Conrad
Grempler, Henry M.
Heath, Geo. R.
Herbold, Chas. & Sons
Hiltz, John & Sons, 3 Clay
Hopkins-Barnett Co., Calvert bldg
Hughes, John, Jr., & Co.
Hyatt, Gouverneur & Son (Waverly)
Jefferies, Geo. R.
Keelty, James
Locke, Thos. F.
McKnight, John
McLean Contracting Co.
Monmonier & Sorrell
Moylan & Welch
Mueller, Anna B. (Mrs. John G.)
Mueller, John G. & Co.
Noel Construction Co. (Large), U. S. Fidel-
Reed, Benj. F. ity & Guaranty bldg
Rook & Darling
Rothhenburger & Co.
Russell Construction Co. (Not Inc.)
Southern Construction Co.
Stockhausen, Chas. L., Gay c Water
Walch, J. J. & Son
Waters, John, 23 E Centre
Watters, Edward & Co.
Wells Bros. Co. of New York
CAMBRIDGE—Brown, J. Ben.
Carmine, Shadrack
Nichols, J. W.
Patchett, Henry O.
CHESTERTOWN—Culp, W. S. & A. M.
Dwyer, Frank E. (Large)
Pipplin, Walter T.
CUMBERLAND—Mertens, F. Sons (Large)
EASTON—Whitby, W. H.
EASTPORT—Smith, Wm. H.
ELKTON—Stephens, Wm.
Strickland, A. M.
FEDERALSBURG—Messenger, R. W.
LUKE—Sigler, Wm. T. (Large)
SALISBURY—Abbot, Merrill
Elliott, John T.
Ennis, W. J.
Johnson, Lee
Johnson & Jenkins
Powell, W. C.
Pusey, W. P.
Slemmons, T. M.
SNOW HILL—Corrdry, W. D. & Son
TAWSON—Burns, Wm. K.
Thomas, Chas. E.
WESTMINSTER—Hunter, Chas. B.

MASSACHUSETTS.

ADAMS—Barrett, P. J.
Water, Frank M.
AMESBURY—Moran, John H.
AMHERST—Blodgett & Spaulding
Bosworth, Geo. E.
ARLINGTON—Disston, Geo. A.
Lowe, Geo. H.
McDonald, Angus G.
Marton, O. R. & Co. (Not Inc.)
ATHOL—Fredette, Edward
ATTLEBORO—Rawson, Henry A.
AUBURNDALE—Beardsley, Maurice E.
BARNSTABLE—Jones, Leslie F.
BARRE—Bassett, H. M.
BELMONT—Johnson, Olof
Loomer & Allen
BEVERLY—Connolly Bros. (Stone)
Donkins, J. M. & Son
Flint, Walter S.
Gadbois, Arthur J.
Geary, John
Guarino, Cassinero
Hallis, H. Merritt
Hanson & Batchelder
Huriburt, Job F.
Linehan, D. & Son (Stone)
Morgan, Chas. E.
Ober, Prince, 363 Cabot
Stewart, Frank W.
BILLERICA—Hosmer, Victor J. (S. B.)
BLACKSTONE—Kenney, John
Taft, L. A.
BOSTON—Abbott, E. A., 95 Milk
Adams, Terrance, 1812 Washington
Allen, Adelbert H., 26 Brattle
Allen, C. S. Co. (The), 9 Allston, Alls.
Altman, Samuel, 12 Holborn, Rox.
Ambursen, Hydraulic Cons. Co., 176 Feder-
Anderson, Carl T., 243 Everett, E. B. al
Atlantic Construction Co., 6 Beacon
Atlas Construction Co., 683 Atlantic av
Bagloe, John C., 16 Waltham
Barrett, Joseph J., 615 Dorchester av
Barry, W. J., 58 Fenwood rd.
Barter, John E., 817 South, Rox.
Real, A. B. & Son, 43 Tremont
Belledun, C. H., 5 Province ct
Bcnard, Thos. H. & Son, 114 Draper, Dor.
Bigelow & Harriman, 127 Federal
Bishop, J. W. Co., 683 Atlantic av
Bixby, John G., 320 W First, S. B.
Blackwood, Ira B., 75 W Dedham
Blaisdell, Geo. S., 80 Minot, Dor.
Boden, Henry J., 51 Evelyn, Mat.
Boretto, Julius, 109 Norfolk av, Rox.
Boulter, Leroy S., 26 Wyoming, Rox.
Bourne, George F., 148 Mt. Vernon
Boyle, J. M. & Co., 22 Allston
Brigg, Geo. M., 127 W Canton
Brock, Edward, 35 Winthrop, Chsn.
Brock, Nathan S., 39 Parsons Behurst, Dor.
Broderick Thomas F., 40 Custer
Brown, Bedford F., 17 Randolph rd, Mat.
Brown, Wm. H., 904 Harrison av
Bryne Contracting Co., 53 State
Bryne, Geo. M. Co., 7 Water
Bryne, Willard B., 262 Washington
Burt, J. H. & Co., 1617 Blue Hill av, Mat.
Campell, John P., 2 Agassiz pk.
Cann, G. S., 1206 Harrison av
Carroll, Michael T., 314½ Blue Hill av, Rox.
Cefalo, Antonio, 220 Devonshire
Chamberlain, Wm. A., 30 River
Chandler, J. H. Co., 29 Scotia
Chisholm, Donald C., 15 Freeport, Dor.
Clark, Edward W. & Co., 7 Water
Clark, Eldon A., 280 W First
Clark, Frank W., 287 Adams
Clark, Henry S., 490 E B'way, S. B.
Clark, Norman, 15 Rosedale, Dor.
Coleman, Daniel, 16 Oscar, Rox.
Coleman, John C. & Son, 16 Bynner, J. P.
Connelly, David, 47 River House
Connolly, Thos. H., 14 Devon, Rox.
Cossett, Wm. A., 100 Harvard, Dor.
Contanche, Joshua, 11 Province
Crane, Wm., 7 Water
Cranitch, John J., 7 Water
Crawford, Andrew, 7 Tebroc, Dor.
Crosby, Riley G., 23 Barry, Dor.
Crosby, Wm. H., 40 Rosedale, Dor.
Curley, John P., 167 Centre, Dor.
Currier, C. E., 110 Summer
Cusack, Andrew M., 95 Milk
Daunt, John A., 355 E, S. B.
Davidson, Gideon L., 435 Columbia rd, Dor.
Davidson, James H., 51 Esmond, Dor.
Davis, Geo. M. & Son, 46 Cornhill
Dean, Geo. A., 45 Howard av, Dor.
Delano, Wm. J., 2a Bowditch st, Rox.
DeWitt, John E., 170 Bellevue, Rox.
DeWitt, Kenneth S., 218 Centre, Dor.
Dibble, Theo. L., 687 Centre, J. P.
Donovan, Patrick F., 115 Terrace, Rox.
Douse, John W., 22 Downer av, Dor.
Doyle, James E., 17 Harvard pl
Drake, John W., 406 Border, E. B.
Duff, John W., 170 Summer
Dunlop & McElaney, 92 Utica
Eadie, Wm. 633 Columbia rd, Dor.
Ekland, Henry J., 99 Park, Dor.
Elston, A. A. & Co., 83 Devonshire
Fallon, James D., 33 Crescent av, Dor.
Ferguson, James H., 22 Parkman, Dor.
Ferguson, John, 30 Black
Finn, Barnard, 100 Webster, E. B.
Fishbein, Louis, 57 Auburn
Fossett, Matthew H., 4350 Wash. Rox.
Fowler, Daniel S., 24 Storer
Fox, Benj. (Inc.), 15 Exchange
Frame & McPherson, 99 Border, E. B.
Fuller, Geo. A. Co., Board of Trade bldg
Furber, O. E., 6 Beacon
Gerrish, H. D. & Co., 129a Centre, Dor.
Gillman, Joseph N., 22 Pitts
Goudey, Gilbert O., 8 Rozella, Dor.
Gow, Chas. R. Co. (The), 79 Milk
Graves, Rupert A., 118 Charles
Griffin, John F. & Co., 95 Milk
Hannon, Frank J., 166 Devonshire
Harkins, John F., 331 Paris, E. B.
Harting, Peter J., 20 Leedsville, Dor.
Hatch, Wilbus J., 75 Minot, Dor.
Havey, John A., 43 Mendum, Rox.
Havey, Thos. E., 7 Metropolitan ter, Rox.
Haves, Benj., Jr., 14½ Harrison av
Hayes, Geo. C., 166 Devonshire
Henderson, James, 8 Fletcher, Rox.
Hersey, Ira G., 166 Devonshire
Hertel, Frederick W., 124 Boylston, J. P.
Holland, James, 666 Columbia rd, Dor.
Holmes, Chester D. (Estate of), 20 Creek
Horn Bros., 18 Cambria sq.
Horne, Richard F., 139 W Brookline
Horton & Hemenway (Large), 683 Atlantic
Hurley, John J., 27 Knapp
Jefferson, Wm. J., 147 Dudley, Rox.
Johnson, Alfred & Son, 292 Main, Chsn.
Johnson, Frederick, 84 Chestnut
Jones & Meehan, 10 Tremont

Julien, Francis X., 22 Vernou, Rox.
 Kellough, Wm. J., 7 Pine
 Kelly, John A., 261 Columbla rd. Dor.
 Kelly, John E., 186 Sycamore, Rox.
 Kennedy & Peterson, 18 Cambria
 Keylar, Thomas, 15 Winship, Br.
 Kinney, Alfred F., 99 W Brookline
 Lahaise, Lomer, 43 Cranston, J. P.
 Lamont, Alvin & Co., 1200 Harrison av,
 Lawler, Bros., 16 City sq, Chsn. Rox.
 Lawson, Chas. L., 78 Fairbanks, Br.
 Le Blanc, Philip, 35 Alexander, Rox.
 Letteney, Wells T., 43 Chelea, Chsn.
 Leverone, Frank, 97 Fulton
 Libby, A. A. & Son Co. (Not Inc.), 161
 Devonshire

Lindemann, S. Walter, 126 Water
 Litchfield, Edwin M., 127 W Brookline
 Lombard, James H., 87 Warren, Rox.
 Long, John & Son, 9 North
 Lord, Rufus E., 40 State
 McAleer, John B., 21 Province
 McAuley, Daniel A., 641 Warren, Rox.
 McCoy, James E., 166 Devonshire
 McCracken, Wm. J., 20 Jones av, Dor.
 McDonough, Domonick J., 111 Draper, Dor.
 McEachern, Daniel, 185 Charles
 McGahey & O'Conner, 95 Milk
 McGovern, James, 875 Adams, Dor.
 McGuire, Martin, 44 Granger, Dor.
 McKillop, Daniel R., 160 Appleton
 McLane, Edward R., 47 Tower, J. P.
 McLean, Austin W., 84 Chardon
 McLean, C. Garfield, 83 Haverhill
 McLean, Joseph W., 1010 Tremont, Rox.
 McLeod, Wm. A., 48 Cohasset, Rox.
 McMorrow, John, 322 Adams, Dor.
 McNeil Bros., 90 Freeport, Dor.
 McPherson, John A. & Co., 12 Chestnut
 McPherson, John T., 59 Warren av
 Mackinon, Neil, 415 Chestnut Hill av, Br.
 Maguire, Thos. F., 14 Jess, J. P.
 Maguire, Thos. F., 764 Huntington av, Rox.
 MacDonald, Angus, 161 Devonshire
 Marquis, George, 2735½ Washington, Rox.
 Mathey, Anable, 14 N Grove
 Mead, Charles H., 15 Beacon
 Mead, Mason & Co., Tremont bldg
 Mills, Joseph F., 116 Harvard, Dor.
 Milton, David, 25 Allen
 Mitchell & Sutherland, 166 Devonshire
 Moore, Patrick H., 126 Fisher av, Rox.
 Moorhouse, Robt. B., 58 Troy
 Morrison, Newton, 10 Province
 Mowatt, Clifford M., 22 Welles av, Dor.
 Moxon, Edwin B., 46 Warner, Dor.
 Munroe, Wm. B., 101 Tremont
 Murphy, James H., 34 Howard av, Dor.
 Murphy, John J. & Co., 114 Broad
 Murphy, Michael R., 9 George, Br.
 Newborg, John C., 23a Oakwood, Dor.
 Newcombe, Wm. H., 5 Strathmore rd, Dor.
 Nickerson, Daniel E., 72 Jay
 Norcross Bros. Co. (Large), Tremont bldg
 Norwood & Ramsdell, 3½ Arch
 O'Connell, Timothy J., 158 Adams, Dor.
 O'Hearn, Patrick, 1464 Dorch av
 Page, G. & J. W., 213 Pleasant
 Pierce, Frederick L. & Son, 827 Adams,
 Dor.

Powell, Francis G., Blue Hill c Columbia
 Powers, Edward, 28 Beach rd, Dor.
 Rankin, Joseph S., 5 Alden
 Rayner, A. W., 41 Bakersfield, Dor.
 Reed, Geo. T., 24 Webster av, Alls.
 Rendle, Wm. S. & Son, 135 Prescott, E. B.
 Rice, Henry J., 26 Edwin, Dor.
 Riley, Daniel F., 68 Auckland, Dor.
 Robbins, Nathaniel M., 516 Columbia rd,
 Roberts, Chas. F., 10 E Springfield Dor.
 Roberts, John H., 12 Hawley pl
 Robertson, W. A. & Co., 4 Stanwood, Rox.
 Rockwell, Mrs. Jeremiah S., 569 River, Mat.
 Rodd, Wm. G., 382 W B'way, S. B.
 Roebbing Construction Co., 101 Tremont
 Rood, Henry, 45 River
 Ruggles, Harvey R., 45 Brooks, Br.
 Sanford, Thos. A., 15 Braintree, Alls.
 Schneider, John, 26 Cline, J. P.
 Schneider, Peter, 14 Egleston, J. P.
 Segal, Harry, 30 Lowell
 Shea, John T., Jr., 696 E Sixth, S. B.
 Shea, Thos. J., Stedman, J. P.
 Sherman, Wm. U., 18 Lyndhurst, Dor.
 Shorey, Albro F., 902 Huntington av, Rox.
 Soule, L. P. & Son, 166 Devonshire
 Smith, Edward M. & Son, 166 Devonshire
 Smith, Wm. H., 2886 Washington, Rox.
 Snow, Franklin A., 178 Devonshire
 Spinney, A. O., 21 Harvard pl
 Sprague, Isaac, 149 Dudley, Rox.
 Staples, Wm. E., 311 Border, E. B.
 Stedman, Walter, 12 Cherry
 Steward, Chas. Almont, 71 Brent, Dor.

Stillman, Edward N., 14 Dunstable, Chsn.
 Stone, Corydon O., 4 Tibbetts, Chsn.
 Sullivan, Michael J., 80 Atlantic av
 Sullivan, Michael J., 752 E B'way, S. B.
 Swanson, Victor, 263 N Beacon, Br.
 Swift, John O., 2253 Dorchester av, Dor
 Thisland, John N., 91 Homer, E. B.
 Thompson, Henry F., 163 Causeway
 Thompson-Starrett Co. (General Building
 Construction), 141 Milk

Tobin, Thos. J., 3628 Washington, J. P.
 Todesca, Joseph, 59 Bellevue av, Rox.
 Tracy, Walter, 72 Bedford, Chsn.
 Trower, John, 52 Charles
 Turner, Geo. W., 48 Pleasant, Chsn.
 Varnerin, John & Sons, 321 Norfolk av
 Vincent, Henry E., 36 Ormond, Mat.
 Walch, John P., 1 Regent ct, Rox.
 Walsh, Bros., 848 Tremont bldg
 Ward, Robert D. & Co., 1357 Columbus av,
 Webster, Wm. H., 17 Kent, Rox.
 Wells, T. B. & Co., 65 Joy
 Wentworth, Walter A. & Co., 15 Exchange
 West, Derrick S., 678a Centre, J. P.
 Whidden & Co. (Inc.), 155 Milk
 Whitcomb, E. Noyes Co., 49 Wareham
 Whitcomb, F. L., 17 Wareham
 Whiteacre, Robert W., 19 Bower
 Willcutt, L. D. & Son, 166 Devonshire
 Wills, Thos. R., 110 Newburg, Rox.
 Wood, Nehemiah S., 41 Beverly
WOODBURY & LEIGHTON CO.,
 166 Devonshire

Wyatt, F. W., 221 Mass. av
 Wylie, Charles, 9 Province
 Young, W. N., 166 Devonshire
 Ziemann, Max, 89 W Cedar

BOURNE—Blackwell, E. A.

Ryder, Robert J.
 Waterhouse, M. E.

BRIDGEWATER—Ball, John H.

Benson, Chas. A.

Neville & Glenn

BROOKTON—Beal, John F.

Cremmins, Wm.

Donnelly, Wm. H.

Fowler, Wm. H.

Hall, Dornelio

Hanson, Willard

Lays, Samuel T.

Lorrie, Frank

Nye, Joseph B.

Pearson, Nils

Peck & McKay

BROOKLINE—Carver, Albert P.

Driscoll, Dennis (Stone), 21 Kent

Driscoll, James & Son

Driscoll, Timothy

Emerson, Fred. M.

Flynn, Martin

James, Horace

Lone, James

Lyon, Levi T.

McThomas & Son

Mealey, Francis

O'Hearn, M. J.

Quimby, B. F.

Shearman, John

CAMBRIDGE—Barker, John

Barrett, James T.

Blakie, Luther

Brosnahan, John F.

Condon, Wm. F.

Coulson, Samuel

Elston, A. A. & Co.

Hawkins, Chas. S.

Hogan, Wm. S.

Linehan, Chas. (Mrs. Mary A.)

McGahey & O'Connor

Currie, A. Y., 376 Harvard

McGirr, Jno., C., 1522 Cambridge

Newcomb, Chas. S.

Norcross Bros., foot Brookline

Northrup, Arthur E.

O'Connell, Wm.

Perrault, Peter

Riley, John M.

Thomas, James E.

CANTON—Curtis, Harlan W.

CHELMSFORD—Dix, R. W.

Miner & O'Neill

Moore & Coggeswell

CHELSEA—Brownell, Thos. E.

Chambers, Richard J.

Coughlin, Daniel

Gordon, Morris

Higginbotham, James

Kaplan & Fisher

Potter, James E.

Webster, Dixon & Co.

CHICOPEE—Canty, D. G.

CLINTON—McMahon, John T.

CONCORD—Lowden, Andrew S.

CONCORD JUNCTION—Beharrell, Isaac B.

DANVERS—Dunnell, Lorenzo

EAST BRAINTREE—Dobson, Geo. R.

Hayward Bros.

Miller Construction Co. (Not Inc.)

EAST DOUGLAS—Stockwell, F. E. (Mrs. B. A.)

EAST FALMOUTH—Jenkins, Wilson R.

EASTHAM—Rogers, Chas. A.

EASTHAMPTON—Pepin, Delos T.

EAST LONG MEADOW—Champlin, W. S.

EAST MILTON—Barry, Michael J.

EAST NORTHFIELD—Holton, S. C.

EVERETT—Brown, Geo. D.

Henderson, James

Karston, Gustave

Oakes, Geo. W.

FALL RIVER—Arbing, Frederick J.

Barrett, Edward

Beattie & Wilcox (Large), 840 Bedford

Benoit, Achille

Brigg, John

Bryant, Herbert C.

Bullock, Chas. V.

Dumaine, Wilfred

Ford, Nathaniel

Gifford, Edmund L.

Gifford, Otis E.

Grant & Sampson

Grinnell, D. D. & Son

Le'Clair, Chas.

McDougall & Grinnell

McQuillan, Alfred W.

Manchester, Geo. R.

Manley, Wm. M.

Murdoch, John

Roy, Elzear

Sherman & Berube

Slade, Eldorus O.

Steward, Dacey & Co.

Terry, Joseph C.

FITCHBURG—Kennedy, M. J.

Lawrence, S. S. & H. N. (Large)

Litchfield, Orin E.

Wellington, Augustus

FRANKLIN—Dudley, Frank E.

McCarthy, J. J. & Co.

Murphy, John, Jr.

Stevens, Roswell K.

GARDNER—O'Dell, D.

Qulby, A. C.

GLOUCESTER—Garland, Simon

Griffin, E. S.

Jackman, Eli

Norwood, Chas. A.

GREAT BARRINGTON—Barrington Building
 Co. (Not Inc.)

GREENFIELD—Burnham, F. W.

Frizzell & Keefe

Holden, Dwight D.

Lyons, F. L.

Pray, R. E.

Viola, Jno.

GREENWICH VILLAGE—Griffin, W. H.

GROTON—Clark, L. H.

Wood, Arthur A.

HAMILTON—Adams, G. M.

Appleton, C. W.

Horne, Thomas

Lawrence, E.

Peterson, C. A.

Trussell, Frank P.

HARDWICK—Barnes, Hiram E.

HAVERHILL—Cashman, Jno.

Kelly Bros., 6 Park

Ross, C. O. & Sons

Sargent, Chas. B., Jr.

Shannon, Edgar F.

HINGHAM—Bartlett, Edward W.

Horton, Geo. W.

HINGHAM CENTER—Ripley, Francis M.

HOLLISTON—Austin, Wm. H.

HOLYOKE—Ducharme, Israel

Fowles, J. H.

Goddard, V. V.

Jones, L. F.

Labiberte, Arthur

Labiberte Bros.

La France, Louis A. (Large), 400 High

McCormick, A. D., 43 Gates

O'Connell's, Daniel Sons (Large), 188
 Hampton

O'Neil, F. F.

Prew, John J., 887 Main

Ranger, Casper (Large), 10 Bond

Thorpe, Geo. L.

Toomey & Shea

Trowbridge, L. P.

HUDSON—Green, Wm. T.

HULL—Hatchard, Geo. H.

Knight, Edward G.

HYDE PARK—Black, James I.

Coveney Building Co.

Dolan & Marks

IPSWICH—Picard, Henry A.

LANCASTER—Thayer, Otis C.

- LAWRENCE—Cram, R. F.
Cullinane, John J.
Daly, Maurice
Dugrenier & Lachapello
Edmonds, Peter
Gilbert, Albert
Gillen, Michael C.
Guerin, Patrick
Hollund, Phillip
Keefe, Edson N.
Nebb, Robert H.
Searle, J. S.
Smith, Walter
Woodruff, H. R.
- LEE—Camarco, M. L.
Harding, Z. & Son
Martin, Nelson
- LEEDS—Warner, H. W.
- LEICESTER—Warren, Silas G.
- LENEX—Biglin, James
Carey, C. E.
Clifford & Sons
Deloyey, C. G.
Fielding & Mahecket
Kilmer, Chas.
Peters, L. C.
- LEOMINSTER—Dargis, Alfred L.
Green, Chas.
Guenette & Benoit
Holmes & Hall
Lyon, Albert E.
McKenzie, A. L.
Powers, Elmer
Smith, E. M.
Stacey, H. H.
- LEXINGTON—Glass, E. W.
Washburn, A. C.
- LONG MEADOW—Provost, John W.
- LOWELL—Adams, F. H.
Baker Construction Co.
Berard, Gilbert
Connors, Bros. Co.
Edgecomb, Pater D.
Fuller, George B.
Gray, Willie
Guthrie, C. E. & Son
Hamel, Chas.
Hands, Stephen W.
Jalbert, Joseph B.
Jean, Amedee
Littlefield, Lester W.
Marlie, J. A.
Murphy, Michael T.
O'Hearn, Patrick
Swager, Avila
Simpson, John
Smith, James L.
Snow, Samuel E.
Staples Bros. Co.
Thomas, Jos. T.
Thompson, Wm. B.
Varnum, C. F. & J. B.
Ward, W. H. (Estate of)
Wiggin, W. H.
Wilson, Francis T.
- LYNN—Alexander, Albert H.
Bettom, H. E.
Bryor, Arthur E.
Butterick, Geo. G. S.
Cohen, Jacob
Connor & Keene
Croscup, James A.
Cunningham, C. S.
Cunningham, Daniel
Daley, Thomas F.
Davidson, Benj. H.
Dearborn, Edward D.
Dinan, John, Jr.
Donaghy, Eliza
Eigner, Joseph
Eklund, Arvid W.
Fultou, James H.
Goodwin, Cyrenus
Grant, John E.
Green, Daniel J.
Healy, Joseph A.
Kelly, C. F.
Kelly, Frank G.
Little, Lawrence D.
McDonald & McNeil
Mayo, Fred D.
Pervier, W. G.
Pevear, Everett S.
Potter & Healy
Reynolds, Edward T. (Large), 61 Exchange
Sheehan, John & Sons
Strout, E. E., 319 Union
Tinkham, E. B.
Van Blascom, J. W.
Wilson, Edward
- MALDEN—Buckford, George T.
Caplan, Abraham
Chadwick, W. P.
Chase, David W.
- Clark, Charles F.
Coburn, H. S.
Dever, John M.
Donahue, Peter & Co.
Gillespie, David
Greene, John B.
Hammond, George C.
Hawkins, C. W.
Hodgkins, M. A.
Howard, Richard J.
Howard, T. R.
Hunnewell, F. E.
Jacobson, Alfred
Kenney, Ann
Lenehan, Edward F.
Lenehan, Patrick H.
Loome, Chas.
Newhall, Stephen O.
O'Brien, Timothy
Presley, Wm. C.
Russell, Chas. B.
Sears, Willard
Sullivan, Patrick F.
Sweezy, Artemas B.
Welch, Francis J.
Wilson, George W.
Walk, Barnet
- MANCHESTER—Roberts & Hoare
- MANSFIELD—Angell, Wm. H.
Gifford, B. T.
- MARBLEHEAD—Martin, Benj. F.
- MARION—Briggs, Geo. S.
Ellis, Chas. M.
Richards, George F.
Washburn, Chas. R.
- MARLBORO—Cousins, Daniel M.
Newcomb, Richard L.
Powers, E. L.
- MARSHFIELD—Davis, J. A.
Ewell, F. T.
Lewis, Howard C.
White, Luther
- MARSHFIELD HILLS—Damon, E. D. W.
- MATTAPOISETT—Hammond, J. S. & Son
- MAYNARD—Shattuck, Sidney P.
- MEDFORD—Clark, Richard W.
Crockwell, John J.
Potter, James E.
Ritchie, E. C.
Soderlund, Nils J.
Sweeney, J. E.
- MELROSE—Harris, Albert E.
Hunnewell, H. E.
Love, T. S.
McDonald, John
Morss, William
Philpot, Robert
Prior, Daniel J.
Steward, J. A.
Toomey, John
- MELROSE HIGHLANDS—Mower, George C.
- MERRICK—McCarthy, J. F.
Provost, Samuel
- METHUEN—Eceles, W. & F.
Smith, George A.
Stowers, Fred W.
- MIDDLEBORO—Phinney, Frank
Pierce, F. E.
Porter, H. G.
Shaw, C. Henry
Starbuck, George W.
Thomas, C. H.
Thomas & Connor
- MILFORD—Weed Bros.
- MILTON—Babcock, Alton & Co.
Chute, Carey
Lawrance, John R.
- MITTINEAQUE—Roberts, Arthur
- MONSON—Moulton, H. D.
Steward, J. S.
- MONTAGUE—Whitney, Edward E.
- NAHANT—Perkins Bros.
- NANTASKET—Smith, John
- NANTUCKET—Holmes & Pease
Ring, J. C.
- NATICK—Ferguson & Hall
Harris, Chas. O.
Linehan, Luke & Co.
McKell, John D.
- NEEDHAM—Devine, Elbridge
Flewelling, H. A.
Frye, G. W.
Snyder, Wm. N.
Sutton, E. D.
- NEEDHAM HEIGHTS—Low, Franklin
- NEW BEDFORD—Bosworth, George A.
Bosworth, W. E.
Bulman, Henry T.
Caron, Silvio
Gay, George W.
Gay, T. Franklin
Judson Bros.
Kingsley, N. H.
Mongeon, Louis
- Moore, James J.
Mosher, C. A.
Sullivan, Martin H.
Sylvia, M. P. B. & Son
Sylvia, Stephen W.
Thompson, Chas. G.
Tripp, George S.
Tripp, Henry W., 161 Clinton
Vincent, Ulric
Watling, Wm.
- NEWBURYPORT—Currier, Arthur C.
- NEWTON—Beal, Jarvis T.
Gowing, Frederick H.
Henderson, N. G.
Joyce, John (Estate of)
O'Brien, Patrick H.
Porter, W. E.
Weldon, Wm. B.
- NEWTON CENTER—Hurley Bros.
Kneeland, Frank E.
Kneeland, John B.
- NEWTON HIGHLANDS—Mitchell, Wm. H.
Sanderson, Richard
- NEWTON LOWER FALLS—Donahue, Thos. F.
- NEWTON UPPER FALLS—Moses, A. C.
- NEWTONVILLE—West, George G.
- NOBSCOT—Cutler, Virgil M.
- NORTH ABINGTON—Curtis, Frederick
Ewell, Edwin H.
Turner, S. N.
- NORTH ADAMS—Whitney Bros. (Large)
- NORTHAMPTON—Harlow, Ozro F.
Livermore, O. E.
Lynch, Daniel
- NORTH ANDOVER—Adams, Edward
- NORTH CHELMSFORD—McMahon, P. T.
Miner & O'Neil
- NORTH EASTON—Baldwin, Joseph W.
Dewitt, George H. & Son
- NORWOOD—Douglass, Chas. H.
Goodwin, A. L.
Spear & Smith
Walker, H. F.
- OAK BLUFFS—Burgess, Geo. A.
Buzzell, Alfred A.
Eddy, Herbert A.
Kidder, Samuel N.
Leighton, Eli A.
Matthews, E. H.
Smith, Arthur C.
Smith, Benj. D.
Thatcher, Horace A.
Warren, Andrew
- ONSET—Roundseville, L. L. Co.
Savery, Wm. C.
- ORANGE—Cobb, George L.
Howe, G. D.
Kelton, James E.
McKenna, James A.
Tyler, C. N.
- ORLEANS—Myrick, Richard S.
Roger, Joseph L.
Smith, Thomas F.
- OSTERVILLE—Daniels, Charles
Hinckley, Ira L.
- PALMER—Flynt Building & Construction Co.
- PEABODY—Martin, Patrick J.
Nichols, Lewis L.
- PETERSHAM—Johnson, A. P.
Waugh, George C.
- PIGEONS COVE—Saundler, Chas.
- PITTSFIELD—Eldridge, W. H.
Horton, Emory S. & Son
Leldhold, George C.
Lester, George E.
Polcaro, J. W.
Walsh, D. J.
Wood, Edward
- PRINCETON—Merick, G. C. F.
Padchan, E. A.
- QUINCY—Andrews, Frank C.
Cashman, Jno.
Crowley, Dennis F.
Ferrari, Bros.
Hayes, Daniel & Sons
Johnson, John S.
Nelson, Albert
Parlee, Edward F.
Raymond, Clifford R.
Smalley, Henry C. Granite Co. (Inc.)
Thompson, John & Sons
- RANDOLPH—Campagna, Eugene W.
Taylor, Geo. F.
- READING—Johnson, Henry R.
Steward & Robertson
- REVERE—Egleston, Earnest J.
Hurvick, Frank
Ray, Milton
Shay, Alex. H.
Simons, Wm.
Sullivan, Timothy
Tibbetts, Elmer S.
Young, Horatio L.
- ROCKPORT—Smith, Rutherford

ROWLEY—Goodwin, F. W.
Bundlett & Millett
SALEM—Chaffour, Eli.
Dawson, Chas. H.
Lord & Neal
Mack, J. J. & T. F.
Merrill, Samuel S.
Norwood, Chas. F.
Peterson, Jos. N. & V. S., 62 North
Pittman & Brown Co. (Large), 255 Derby
Welch, Jas. J. & Co.
SALISBURY—French, Luther W.
SANDWICH—Grant, Ellis C.
SAUGUS—Greenlay, W. Geo.
SAXONVILLE—Hall, James E.
SHARON—Curtis, Chas. S.
SHELBURNE—Newhall, A. A.
SHELBURNE FALLS—Merrill, G. G.
SHIRLEY—Marsh & Son
SHREWSBURY—Gates, George N.
Stone, Henry J.
SOMERVILLE—Allen, Horatio W.
Andrews, J. M. & Son, 172 B'way
Berry, Arthur W.
Bowlby, Henry R.
Bowlby, Lester F.
Brown, Roscoe M.
Burnham, Ira F.
Buttmer, Jeremlah
Buttmer, Maurice
Ellis, Robert H.
Essensa, Chas.
Gallagher, Joseph P.
Gordon, Thom.
Hartwell, Hayard
Hayden, James
Henderson, Wm. A.
Hines, A. H.
Hutchins, Elmer N.
Lang, Albert W.
Lewis, Stephen H.
Lingley, Thomas W.
McCarthy, Wm. J. & Co.
McGray, H. R., 95 College av
Mable, Annie M. (Horatio N.)
Meserve, Chas. A.
Olson, Otto
Robertson, Edward J.
Skelton, Daniel J.
Smith, Alfred A.
Snow, John C. H.
Spofford, Harold E.
Tibbets, Harris P.
Warren, Frederick C.
SOUTH ACTON—Jones, Samuel, Jr.
SOUTHBRIDGE—Ball, Hormidas
La Liberte, Frank X.
SOUTH DEERFIELD—Gass, Wm.
SOUTH DUXBURY—Soule & Glover
SOUTH FRAMINGHAM—Freese, Edwin A.
Rowe & Perini Construction Co.
Thompson, W. J. & Son
SOUTH HINGHAM—Cushing, Elijah H.
SOUTH NATICK—Caswell, Frank P.
SOUTH WAREHAM—Vose, Oren C.
Vose, Robert L.
SOUTH WEYMOUTH—Miller, Joseph E. L.
SOUTH YARMOUTH—Eldridge, Nelson
Eldridge, Wm. H.
SPENCER—Cantara, Oliver
SPRINGFIELD—Angers, J. A. & Bro., 327
Burnham, George M., 53 Bridge Main
Burt, J. S.
Collins, J. M.
Converse, F. F.
Donohue, John
Gagnier & Angiers, 327 Main
Kibbe, C. W.
King, Herman L.
Ley Construction Co.
Ley, Fred. T. & Co., 307 Main
Muir, James (Cut Stone), Bay st av
Newton, W. A. & Co., 337 Worthington
O'Donald, John O.
Sachett Bros.
Scott, John L., 282 White
Scott, L. H. & Co.
Shattuck, E. W. (Large), 98 Taylor
Shea, Daniel C. (Large), 78 Alden
Shea, Jerry & Son (Large), 16 Columbia ter
Springfield Portable Construction Co., 54
Steward, H. A. Waltham av
Warner, Fred. G., 69 Crystal av
Wells & White, 33 East Court
Wood, L. S., Willow & Stockbridge
STOCKBRIDGE—Lawless, T. J.
STONEHAM—Gove, Linwood L.
Swan, John B.
Webber, Parker G.
STOUGHTON—Curtis, Geo. P.
Jones, Frank M.
White, Fred. H.
Witt, H. C.

SWAMPSCOTT—Belben, Nathaniel
Butcher, J. Watson
Delano, Gilbert
Ellis, Albert R.
Hardy, Harry E.
Hudson, Levi
Lyons, James T.
McDonough, Michael D.
Rowell, Fred. E.
Tuttle, H. Scott
SWANSEA—Young, Elmer D.
TAUNTON—Alger, Macombe & Co.
Barstow, Chester
Bassett, E. J. & Son
Bassett, Eugene P., Merchants' la
Bassett, Irving L.
Bassett, Lester E.
Bassett, Lewis C.
Briggs, Abrah. T. (Stone), 86 Winthrop
Browne, Jno. C.
Chase, Wm. H., 15 Trescott
Crane, John A., 16 2d
Crapo, Henry B., Tremont c Fremont
Ellis, N. E.
Fletcher, W. W.
Freeman, Wayne M.
Hardy, Jno. H., 3 Maple av
Harmon & Hopkins, (Brick & Stone), 28
Howes, H. G., Fairview av Main
Judge, James D., 13 Grove
Leary, Cornelius W.
Lockwood, Joseph
Mann, Wm. H.
Manter, Chas. L., 14 Trescott
O'Connell, D. J., 172 Middleboro av
Pierce, Samuel P.
Sherman, Z.
Sullivan, D. J., 83 B'way
Walker, Jno. C.
Wilbur, Jas. K.
Williams, Frank D., 229 High
Witherill, L. M., 29 Court
TEATICKET—Stevens, Frank L.
TURNERS FALLS—Royer, Jno. B.
Thomas Bros.
UXBRIDGE—Henry, Albert F.
Lackey, Eugene
Malley, Thos.
VINEYARD HAVEN—Hinckley, Herbert N.
Manter, Wm. G.
WABAN—Kellaway, Arthur N.
Kneeland, John B.
WAKEFIELD—Bryer, Jno. H.
Butler, Aaron A.
Feindel, H. A. & Co.
Kiliorin Cont. Co.
Prescott, Wm. A., 372 Main
Wanamaker & Webber
WALPOLE—Allen, M. W. & Son
Boyd, Porter S.
McCarthy, Michael F.
WALTHAM—Archambeault, Jos. J.
Brouillette, Jos. P.
Bull, Edw. H.
Cormey, Jno. E.
Dawson, George, Music Hall av
Geoffrion, Louis
Glancy, R. E., 53 Cushing
Gregg, Herbert M., 67 Lawrence
Howe, W. C., 40 Chestnut
Lyons, Wm. E.
McCusker, F. W.
McCusker, Jno. H.
Maloy, Patrick & Son
Moran, Jno. E.
O'Malley, P. J., Massasolt
Prebel, Chas. A.
Rose, Norman J., 188 Hammond
Smith, Edw. B.
WARE—Cummings, Herbert P. & Co. (Large)
Whelan, Patrick, J.
WAREHAM—Barnes, Elmer & Son
WARREN—Nevis, Thos.
WARTERTOWN—Bowlby, L. S.
Flannery, Owen
Iliffe, Wm., Malendy av
Moody, Geo. H.
Murrough, Albert B., Russell av
Whiting, Moses, Royal
Willson, Wm. H.
WAVERLEY—Melanson Bros.
WAYLAND—Small, E. W.
WEBSTER—Cazeault, J. T. & Bro.
Goddard, Joel & Co.
Hall, George F.
Murdock, Jno.
Plasse, Paul
Towne, W. E.
WELLESLEY—Haggood, Frost & Co.
WELLESLEY HILLS—Donohue, Thos. J.
McCabe, John W.
Taylor, Chas. N.
WENHAM—Elliott, Chas. F.
Porter, Herbert W.

WEST ACTON—Harris, Frank E.
Hoar, John S.
WEST BARNSTABLE—Jenkins, Z. H. & G. S.
WEST BROOKFIELD—Conway, John A.
WEST DIGHTON—Horton, Chas. A.
WEST FALMOUTH—Bourne, Timothy C.
Bowman, Frederick N.
Lambert, Orlando M.
WESTFIELD—Butler, John E.
Ferry, Frederick N.
Green, T. J.
Humphreville, E. M.
Little, Thos.
Mahoney, P. J.
Snow, Frank A.
Toole, John J.
Wood, H. C. (Large)
WESTFORD—Cummings, Chas. M.
Harrington, P. Henry
Sutherland, Alonzo H.
Wright, Hammet D.
WEST HARWICK—Lathrop, John A.
WEST MEDFORD—Clark, J. M. & Co.
Cunningham, Nason B.
Elmes & Constantine
Ham, Frank W.
Lovering, Lewis H.
WEST NEWTON—Beal, Herbert M.
Cotter, Jeremlah & Sons
Gallagher, James R.
Gannon Bros., 125 River
Hargedon, Jno., Derby nr City line
Jepson, Geo.
Keller, Jno. H. & Wm.
McDonald, M. J.
McKay, Donald
Tange, Hans L.
WESTON—Brown, John J.
Cooper, Howard L.
McDonald, J. O.
WEST SPRINGFIELD—McCarthy, Jas. F.,
Provost, S., 342 Main, Merrick 359 Main
WEST TOWNSEND—Sherwin, W. Z.
WHITINSVILLE—Burgess, J. E.
Van Steenberg, J. B.
WHITMAN—Black, Paul
Faunce, A. L. & Son
Whitmarsh, A. C.
WILLIMANSETT—Carreau, Louis & Son
Rivers & Young
WINCHENDON—Hildreth, W. P.
WINCHESTER—Blaklee, Dexter B., 72 Ever-
Carroll, Hy. J. ett av
Enman, J. L. M., Kendall nr Mt. Vernon
Hatch, Wm. S.
McEwen, Jas. H.
Ogden, Geo. C.
WINTHROP—Belcher, M. Henry
Churchill, Gilbert F.
Cralb, Chas. G.
Floyd, Thomas
Griffin, Sidney H.
Johnstone, J. B.
Mahaney, T. J.
Munroe, Wm. B.
Newcomb, Freeman E.
Noceti, Louis
Stafford, W. F. & Co.
Steves, Zebulon M.
Woolcott, Frederick W. F.
WOBURN—Anderson, Severine
Ellis & Bushwill Co.
Fowle, George E., 32 Prospect
Greydon, Fraw W., 7 Lowell
Herrick, J. E., Jr.
Ring, Timothy J., 18 Stoddard
Smith, Alexander Y.
WOODS HALE—Grinnell, Chas. J.
Norton, Brame G.
Swift, Ezekiel E. & Son
WORCESTER—Bannister, Herbert F.
Bellisle, Eli
Bishop, J. W. Co. (Large), 107 Foster
Bonneau, Louis O.
Booth, A. N., 18 Schussler rd
Buckley, J. M. & C. J., 67 Harrison
Central Building Co., 58 Front
Coderre, Homer
Coderre, Louis, Jr.
Colburn, C. A., 660 Pleasant
Colby, Rufus W.
Cutting, Geo. H. & Co. (Large), 11 Foster
Dorais & Dupuis, 3 New Sutton in
Foley, Thomas D. & Co., 26 Perry av
Fortier, Adelard I.
Fortier, Napoleon P.
Fowler, John W.
Gardiner, Oscar
Gough, H. D. & Co.
Hadley, H. D.
Higgins, Jeremlah J., 518 Main
Howard, S. I., 3 Harvard
Hubbard, John S.
Isenberg, Bernard

Jaques, Benj. C.
Johnson, Frithrof C.
Joyce, Frederick M.
Kane, Michael J.
Kelley, Chas. A.
Le Clair & Tellier
Loftus, John
Lynch Bros., 268 Shrewsbury
McDermott, James A.
Mark, F. W., Day bldg
Melcan, Thos. F., 3 Chapln
Mellen, Henry & Son, 41 Qucen
Miles, James & Son, 54 Beeching
Murphy, Patrick D.
Nelson, Nicholas
Norcross Bros. Co. (Large), 10 E Worcester
Ohlson, Olaf F.
Oslund & Anderson
Peters, Chas. L., 38 Newbury
Pettersen, L. M., 21 Edward
Pleckford, Jno. H. & Son, 439 Park av
Pike, Horace S.
Power, Jno. J., 1 Granite
Quarn, John F.
Rankin & Woodside, 38 Burncoat
Robbins, A. P., 452 Main
Roberts, Joseph J., 133 Grafton
Scoville & Wheeler, 518 Main
Simonds, Wm. F.
Smth, Robert
Stone, Bertrand W.
Taylor, John E.
Tetreault, Octave
Tucker, Norman F.
Vaughan, C. A., 28 William
Waite & Wetherby, 20 Abbott
Ward, Edward D., 82 Foster
White, P. Foster
Whitehead, Ernest, 21 Foster
Whitney, Edward J.
Yates, Francis J.
WRENTHAM—Willard, Artemus
YARMOUTH PORT—Taylor, Elbridge

MICHIGAN.

ADRIAN—Gray, B. H.
ALPENA—Fox, Owen
Gebhardt, Morrow & Co. (Also Planing Mill)
Kock Bros. (General)
Sauer, C. A. & Co.
BATTLE CREEK—Cole, Serin B.
Doland, Jno. L., 21 Cogucac, W
Gillis, Chas. H.
Hall Bros. & Co.
Hill, James F.
Miller, Silas A.
Seeley, R. E., 141 Post av
BAY CITY—Campbell, Hugh
Crampton, Wm.
Fish, W. T.
Lamont, Mathew (Large)
Miller, Aleson R.
North American Construction Co.
Steinbaur, Fred. J.
Thompson, John W., 1st c Sherman
BENTON HARBOR—Richards, W. H.
Sullivan & Howard
BIG RAPIDS—Jones & Green
CADILLAC—Dutton, C. W.
OALUMET—Milford, W. F.
Roehm, P. B.
DETROIT—Albrecht, Albert A. (Large), 1212 Penobscot bldg
Barron, Felix & Son
Bartholomar, Max W.
Beebe, Henry A.
Blay, Wm. M.
Burger, Levl G.
Carmichael, Andrew T.
Cutler, John
Dierick, Lawrence
George & Co. (Inc.)
Goddard, Frank H.
Goddeerls, Chas.
Golden, Geo. W. (Large), 15 Gllman
Griffin, Michael J.
Haberkorn, J. H. A., 384 14th av
Harcus & Lange, 770 Russell
Helson, Richard, 21 Gilman
Langley, Wm. P.
Meier, Herbert A.
Miller, Chas. L.
Piggins, W. S. & Sons
Scholl, L. & Sons
Sedoff, Chas. V.
Smith, John E.
Teakle, Robert T., 600 Grand River
Traves, W. H. (Large), Peninsular B'k bldg
Vinton Co. (Large), 126 Woodbridge, E
DOWAGIAC—Judd, Mark & Son
ESCANABA—Williams, Nicholas
FLINT—Matthewson, Fred. C.
GRAND RAPIDS—Austin & Pelton, Gardner
av nr Burton av
Gentz Bros., 37 Springfield av

Hoertz, Chas. & Son, 18 Porter blk
Oltman, L. P., 592 S East
Tibbets, S. B., 335 Central av
GREENVILLE—Chandler, George
HANCOCK—Gauthier Bros.
HOUGHTON—Northern Construction Co.
Superior Construction Co.
IRON MOUNTAIN—Parmelee & Son
IRON WOOD—Olsen & Bergquist
ISHPEMING—Wahlman, John & Son
JACKSON—Bradt & Lusk
Conway, Henry D. (Stone), 214 N West av
Moloney, Thomas, Cortland & Michigan av
North & Bradshaw, 1424 1st
KALAMAZOO—Bishop, E. E.
Black & Smith
Chittenden & Skinner
Fitzpatrick, Martin E.
Flaltz, Frank, 613 Summer
Foy, Thos. W.
Rickman's, Geo. Sons Co., 226 Pratt bldg
Shannon, W. H.
White, Albert J.
Stevens, G. W.
LANSING—Sullivan, Jno. B., 736 Shiawassee,
LAURIUM—Anderson, Chas. A. E
Vairo, Vincent
LUDINGTON—Wedmark, H. P. & Son
MANISTEE—Newcombe, R. J. B.
MARINE CITY—Rivard, Fred. L.
Zimmerman, C. F.
MARSHALL—Hart, W. C. & Son
MONOMINEE—Spaulding, E. P.
MOUNT CLEMENS—Hubarth, Schott & Co.
MUSKEGON—McIntosh, Alex
NEW BALTIMORE—Sommer, August
NILES—Asmus, Adam
Baker, M. D. (Brick Mason)
Beswick, H. C.
Dunn, F. W.
Smith, W. Hills (Brick Mason)
Van Dusen, F. H.
Zwergel, Philip
PERRY—Green, M. H.
PETOSKEY—Kopke Bros.
McDonald, Dudley
Seibert, P. L.
PONTIAC—Heitsch Bros.
Slater Construction Co.
Stearns Bros.
PORT HURON—Germain, G. S. & Sons
Jenks-Wade Co.
Jones, Wm. E.
McMonagle, Timothy
O'Sullivan, James (Large)
Port Huron Construction Co.
Wilson, W. T.
PORT SANILAC—Schlichting, Henry
REPUBLIC—La Forals, Louis
SAGINAW—Blank, Leonard J.
Fruechtel Construction Co., 412 N Oakley
Gelinas, A. & Son, 114 S Washington av
Hunter & Stewart Construction Co. (Not Inc.)
Kerns, Jas. & Son, 207 S 3d av
Kerns, W. G., 212 Annesley av
Mueller, W. C. (Brick), 116 N 6th
Parth, John
Ryckman, Albert H.
Spence, Hugh
Spindler, Bros.
ST. JOHNS—Pouch, Ananais
Pulfrey, Columbus F.
ST. JOSEPH—Stock, M. W.
WILLIAMSTON—Higbee, Hiram E.
WYANDOTTE—Belleville, Wm.
YPSILANTI—Norton, Frank A.
Wardner, Wm. F.

MINNESOTA.

ADA—Gilge, E. A.
AITKEN—Holden, N. J.
ALBERT LEA—Tapager & Hanson
ALDRICH—Odden, S.
ALEXANDRIA—Alton, Thos. R.
ANOKA—Case Bros
Wasielewski, A. L.
AUSTIN—Martinsen, T.
Waterman, H.
BARNESVILLE—Tulley, D.
BEMIDJI—Atwood & Reeves
Johnson, Thos.
Kreatz, Geo. E.
BIRD ISLAND—Dresow, Frank
BLOOMING PRAIRIE—Thomas, A. C.
BRAINERD—Everett, Alonzo
Pearce, J. K.
Rowley, O. B.
Vaughn, J. F.
White Bros.
BRECKENRIDGE—Bedlinger, Jacob
CANBY—Bye, O. O.
CARLTON—Cain, W. M.
CARVER—Hanson, Olaf
CHASKA—Geiser, Frank
CLOQUET—Connors, Levi.
Long, John
O'Burke & Norberg
COHASSET—O'Brien, M.
COLERAINE—Boberg & Nelson Co. (Not Inc.)
CROOKSTON—Florin, John
Johnson, Louis
Ross, Chas.
Walker, W. E.
DAWSON—Carson, J. W.
DELANO—Erickson, Swan.
DETROIT CITY—Detroit Building & Mfg. Co.
DULUTH—Anderson & Gow, 123 3d av, W
Bartlett, Harmony, 101 1st av, E
Barr, David C.
Bergquist Bros., 2032 Loudon rd
Blais, Napoleon
Blowers, E. F., 21 Lake av, W
Brown, H. C., 5627 Grand av, W
Brown & Brown
Camelon Bros.
Campbell, L. H. & Co.
Engle, Emil
Evans, C. E., 419 Lonsdale bldg
Fawcett, Hugh, Lyceum bldg
Fawcett, Wm.
Fitzgerald, James J.
Frederickson, C. J.
Grandy, Jno., Burrows bldg
Hilliard, J. W., 9 Winthrop bldg
Holden, W. H. & Son
Hood, David
Johnson, Chas. O.
Johnson, John A., 717 E 2d
Johnson, Otto
King, Geo. R.
King, W. F.
Kern, Wm. E.
Linden & Danielson
Lounsbury, G. H., 332 W Superior
Molitor, J. D. & Bro., 632 W Superior
Mueller, N., 813 E 5th
Nauffts, Theophilus
Nolan, John, 2513 W 2d
Olson, O. W., 424 9th av, E
Osman, A. G.
Pearson, Harry, 305 Torrey bldg
Ramstad, Louis
Robert, A.
Robert, J. A., Burroughs bldg
Robertson, A.
Roy, Joseph
Smth & Vokes, Exchange bldg
Steele, Hugh
Thomas & McCoy
Waterworth & Fee, Torrey bldg
Zauft, Emil J., 5519 Grand av, W
ELY—Dinsmore, John A.
ELYSIAN—Thompson, W. H.
EVELETH—Anderson, Gust
FAIRMONT—Petrie, G. W.
Popple, C.
FARIBAULT—Keuhl, A. F.
O'Neill, Jno.
O'Neill, William & Son
Peltier, C. H.
HASTINGS—Stewart, W. W.
LINDSTROM—Otis, Carl
LITTLE FALLS—Euke, G. H.
Harrison & Peterson (Large)
Kopacz, Frank
Moide, Andrew
MANKATO—Anderson, S. A.
Bishman Bros.
Carlson, Jno.
Hagwall, O. M.
Mahlke, E. O.
Neltge, Otto
Nelsen, J. B. & Co. (Large)
MINNEAPOLIS—Adams, M. A. & Co.
Anderson, G. A. & Co.
Archer, Geo.
Archer, H. & Co., 314 10th, S
Aronson, B.
Bauman, H. J., 212 4th, S
Benson, J. A., 2534, Dupont av, S
Bruce, Nels, 2624 14th av, S
Buhl, L. & Co.
Campbell & Co.
Carlson, John E.
Caron, A.
Cederstrand A. & Co., 984 Central av
Chadwick, L. L., 2934 Nicolett av
Cheney, R. J. & Co., 113 4th, N
Clark, W. O.
Congdon Construction Co.
Cooke, Geo. & Sons
Cooper, Barclay, 1114 Yale pl
Crawford, W. M. & Son, 14 Kasota bldg
Davis Construction Co., 304 Kasota bldg
Elliott, J. & W. A., Lumber Exchange
Engquist, John, 3645 Blaisdell av
Enockson, Carl
Fall, Fred. H.

Fetterly, J. A.
 Finnegan, P. J.
 General Contracting Co.
 Giguere, Peter C.
 Haglin, C. F., Lumber Exchange
 Halladan, Pan O.
 Healy, T. P., 3115 2d av. S
 Jeub, Herman
 Johnson & McCoy
 Klarquist, S. M.
 Lambert, Jules
 Law, Paul A.
 Leck, H. A. & Co.
 Leck, Jas., 215 7th, S
 Leighton, H. N. Co. (Large), 213 16th, S
 Lepper, Casper
 Libbey & Libby Co., 244 2d av. S
 Libby & Nelson Co.
 Lindquist, Gust
 Lundquist, Andrew G.
 McClurg, L. S.
 McLeod, Angus Co., 409 6th av. S
 McMillan, F. G., 2 E 5th, S
 Madsen, Mads.
 Muther, H. L.
 Myhr, John
 O'Donnell, James S.
 Opdahl, C. O., 54 3d, S
 Parsons, H., 516 Gharanty Loan
 Pelton, R. B., 418 6th av. S
 Peterson, O. A. & Son, 1540 E 25th
 Pike & Cook, 416 5th av. S
 Pilgram, James E.
 Prince Construction Co.
 Pryts, Peter J.
 Rhode, Erick, 1520 Adams
 Raidt, Frank H.
 Rhode, Erick, 1520 Adams
 Schaper, August H.
 Schumacher, Maurice
 Sholl, Eniar
 Spriestersbach, Geo. W.
 Stenvig, John O.
 Swan, Andrew A.
 Theisen, M.
 Trainor Bros., 424 Bostou blk
 Tyler & Co., 717 6th av. S
 Windersee & Moxley
 Winston-Dear & Co.
 Wunder, Jno. (Large), Lumber Exchange
MINNEOTA—Jonason, S. W.
MONTEVIDEO—Everson, Everett
 Rodeberg, Thos T.
MOORHEAD—Bjorkquist, Carl
 Fridlund Bros.
 Merritt, W. H.
NEW ULM—Gronan, John G.
 Kopp, Hermann
 Puhlman, August
 Schapekalm, Herman
 Welland & Stegeman
NORTHFIELD—Johnson & Childs
 Miller, Theodore
ORTONVILLE—Anderson, G. A.
OWATONNA—Hammel Bros.
PIPESTONE—Redmon, G. S.
RED WING—Johnson & Nelson
 Longcer, W. J.
ROCHESTER—Pollock & Riedell
RUSH CITY—Poehman, Mathias
ST. CLOUD—Heimann, John
 Kopp, Carl
 Schellinger, Joseph
 Steckling, Hy. P.
ST. JAMES—Anderson & Krone
 Schweppe Bros.
ST. PAUL—Anderberg, P. A. & Co., 399 Selby
 Baumeister Bros., 1145 Ross av
 Brady, Thos.
 Brandhorst, J. H., 652 Miss
 Buell, C. J.
 Clark & McCormack, 138 E 6th
 Dahlman, Aron, 130 W 4th
 Daly, Eugene J.
 Delchen, T. A.
 Doherty, Patrick
 Donahue, J. H.
 Dorrance, Geo. W.
 Doyle, Andrew
 Erickson, A. G. (Large), 404 N Prior av
 Fee, Jno. J., 225 St. Anthony av
 Frandsen, H. J., 505 Rice
 Frankman Bros. & Morris, Globe bldg
 Fransen, Nels. P. & Co.
 Hartigan, M. J.
 Hennessey, P. M. Construction Co. (Large)
 Husby, Thos., 49 Hunt
 Ingemann Bros., 1930 St. Anthony av
 Johnson, E. J., 902 Thomas
 Kencham, Wm.
 Lange, Henry P.
 Larson, Louis J.
 La Rue, Oscar R.
 Lauer, Bros.

Linden, J. O., 596 E Lawson
 Lone, J. B. & Son
 Lovene, C. W.
 Molln, John
 Nelson, John W.
 Nickow, Louis
 Norlander, Fred. C.
 Oakes, Geo. W. & Co., 336 Endicott bldg
 O'Connell, Daniel E.
 Peterson, Emil
 Poppenberger, Wm. Son, 731 York
 Rankin, Andrew, 484 Selby av
 Readon, Timothy
 Romer, F. J. & Son, 196 Ramsey
 Ross & Olson
 St. Paul Building Co., 460 Rice
 Schmit, J. R., 630 Fuller av
 Skoogun, Chas., 1105 Jessie
 Steckling, Henry P.
 Swenson, Olof, 945 Clark
 Taylor, Matthew, 201 W 5th
 Telander, F. G. & Co.
 Wilcken, F. J. & Co., 228 McBoal
 Wildung, C. P., 325 Van Minden
ST. PETER—Brogan, Thos.
 Frederickson, Ole
 Olson, Albert S.
 Smith, Jas.
SANDSTONE—Larson Bros.
 Myer, W. S.
 Northey, Miss Effie
 Olson, O. H.
THIEF RIVER FALLS—Dorge, F. S. & Co.
TWO HARBORS—Johnson, A. L.
 Pastoret & Lunz
 Spurbeck, G. H.
TYLER—Johnson Bros. & Kruse
VIRGINIA—Butler, Chas. C.
 Grande, Andrew
 Johnson, Chas. A.
 Olson, J. H.
 Osterberg & Johnson
 Rinnert, F. J.
 Sampson, Jas.
 Shaner, W. B.
WILLMAR—Bjorsell, Andrew
WINDOM—Christofferson & Westgard
 Huseman, Fred.
 Knopp, John
 Lohse, John
 Polzin, Frank H.
 Siedlitz & Werner (Large)
WINONA—Abeil & Brady Co. (Not Inc.)
 Becker, K. G.
 Becker, K. J.
WINTHROP—Lindstrom, A. P.
WORTHINGTON—Peterson, J. H.

MISSISSIPPI.

ABERDEEN—Brannin, Addison
AMORY—Camp, J. R.
BAY ST. LOUIS—Gardebled, C.
BELZONA—Edwards, R. L.
BLOXI—Harkness, W. T.
BLUE MOUNTAIN—Robertson, W. L.
CLARKSDALE—Leonard, Jack
CLEVELAND—Nott & Ward
COLDWATER—Duboise, H. A.
COLUMBUS—McClannahan, D. S.
 Stansell, Arthur
 Stansell, J. P. & Son
 Stansell, J. W.
COURTLAND—Brannum, M. C.
 Huron, W. A.
CRYSTAL SPRINGS—Bennett, W. G.
GREENEVILLE—Hecker, Gus
GREENWOOD—McGunnis, S. L. & Co.
GRENADA—Moss, W. H.
HATTIESBURG—Graham Construction Co.
 Limbaugh, J. B.
 Ward & Roberts
INDIANALOS—Chandler, W. H.
ITTABENA—Reese, R. C.
JACKSON—Garber, L. C.
 Herbruck, A.
 Hull, F. B. Construction Co.
 Landen, J. C.
 Randle, J. T.
KOSCIUSKO—Storer & Miller
LAUREL—Norris & Gardner
MAGEE—Polk, H. A.
MAGNOTA—Easley, W. W.
MERIDIAN—Carson & Richardson
 Dabbs, C. H. & Co.
 Hopkins, Fred.
NATCHEZ—Bost, R. E.
NEW ALBANY—Reeds, T. L.
OXFORD—Tyer, W. A.
PORT GIBSON—Jordan, E. C.
RIGHTON—Blackwell, G. G.
SARDIS—Bridge, G. E.
 Johnson, Andrew & Son
SENATOBIA—Mothershed, E. L.
TUPELO—Cahow, W. G.

VICKSBURG—Beck, J. W.
 Gregory, T. S.
WINONA—Gesty, R. & Co.
YAZOO CITY—Morford, Wm.

MISSOURI.

ARCADIA—Miller, Louis
BOONVILLE—Cochran, W. J.
CAMERON—Dildine Bridge & Construction Co.
CAPE GIRARDEAU—Danes Bros.
 Vogelsang Bros.
CARTERVILLE—Holman, M. A.
CARTIAGE—Bolle, N. E.
 Davis, Leslie F.
 Jackson, Ellis & Son
 Missouri Stone & Construction Co.
CHILLICOTHE—Glore, O. P.
COLUMBIA—Miller, F. P.
DE SOTA—Herman, Otto
EXCELSIOR SPRINGS—Iryor & Co.
 Stawser & Bryan
FARMINGTON—McCarthy Construction Co.
HANNIBAL—Walley, E.
HARRISONVILLE—Jones & Edwards
INDEPENDENCE—Roberts, Thos. W.
 Yetter, Christian
JOPLIN—Bane & Moore
 Dieter & Burgehagen
 Dieter & Wenzel
 Joplin Construction Co.
 Koehler, A. F.
 Kost & Patton
 Lauderback, W. L.
 Register, A. L. & Co.
 Thomas, John R. & Co.
 Williams, J. P.
 Winterholer, Bugenhagen & Wendel
KANSAS CITY—Arrow Head General Cons.
 Co. (Not Inc.)
 Boyd, R. J. & W. M. Construction Co.
 Brown, Gen. L. & Son, American Bank bldg
 Clay Construction Co.
 Corcoran, James G. & Co.
 Coumbe & Bachman Construction Co.
 Crosby, L. & Sons
 Cullen-McCurdy Construction Co.
 Economy Construction Co.
 Farmer, Lawrence Cons. Co. (Not Inc.)
 Farney, A. W.
 Freeborn Engineering & Construction Co.
 Fuller, Geo. A. Cons. Co., Hall bldg
 Gate City Contracting Co.
 Green, H. M.
 Hallinger, Job Construction Co.
 Halpin, Dwyer, Construction Co.
 Hayde, S. J. Cont. Co., 597 K. C. Life bldg
 Hayes & Beverforden, Sheidley bldg
 Henry, John
 Home Construction Co., 1407 Walnut
 Hone, John
 Huckle & Sexton Cont. & Building Co.
 Huggins, G. W., 216 Shukert bldg
 Huribut, Frank A.
 Kinghorn, Alex.
 Kirn, Gottfried
 Latimer, Frank H.
 Launder, Construction Co. (Not Inc.)
 Leviston, Walla, 14 W 3d
 Love, James
 Love, Wallace, 3801 Genesee
 Ludlow, F. H.
 McTernan & Halpin Construction Co.
 Marshall, D. E. (Brick), 209 Postal Tel. bldg
 Middleton, A. J. & Son Construction Co.
 Morley, Patrick J., 1643 Wyandotte
 Nevel, J. B., New Ridge bldg
 Nilson, C. A., 304 Kemper bldg
 Norton Bros.
 Pfost Construction Co. (Not Inc.)
 Reyborn-Laird B. & O. Co., Bryant bldg
 Richards, E. F. (Brick), 1821 Paseo
 Robertson, L. D.
 Rowland, L. M. & Co., 1206 Forest av
 Schwerger, T. G. Contracting Co., 1309
 Sharp, C. H. Contracting Co. Balto. av
 Smith, Chas. C.
 Stiver, Harvey
 Stone, J. H., 4119 Oak
 Swenson, Construction Co.
 Tarbet & Byrne
 Taylor & Winn, Mass. bldg
 Thomas, J. D., 1312 E 33d
 Turner Bros.
 Urban Construction Co.
 Western Contracting Co.
 White, J. C., 3223 Washington
 Wilson, W. A., 613 Postal Tel. bldg
KIRKSVILLE—Anderson, C. C.
 Holmes, A. L.
LIBERTY—Hayes, B. F.
LOUISIANA—Stewart, Ralph
MARSHALL—Page, E. R.
 Rose Bros.
MEXICO—Reid, A. F.

NEVADA—Beagle & Dye
Daly, J. A. (Large)
ODESSA—Ryland, F. M.
RICH HILL—Jaeger, G.
ST. CHARLES—Pfaff, Jno.
ST. JOSEPH—Buddy, Philip P. Building & Construction Co.
Lehr, J. W., 1702 Fredrick av
Stanley, T. W. & Son
ST. LOUIS—Abrahams, Sol. & Son 1228 Pine
Advance Engineering & Cons. Co., 806 Victor bldg
Ahrens, Frederick, 2609 Howard
Alles, Herman, 2322 Athlone av
Althaus, Jacob, 810 Olive
Anderson, John H. & Co., 2722 Henrietta
Anger, John, 3136 New Ashland pl
Atlas Construction Co.
Bacon, O. W. (Brick), 4363 N Market
Bardsley, Edward, 2842 Belt av
Barnes, W. W. & Co., 1522 Chestnut
Barry, Wm. D., 3829a Sullivan av
Barwick Construction Co., 4957 McPherson
Bauer, Herman, 2126 Nebraska av
Beetz, Henry C., 2664 Nebraska av
Beinke, Henry F., 4807 Cote Brillante av
Black, James Masonry & Contracting Co., Wright bldg
Bolaud, John V. Construction Co., 221 Olive (Not Inc.)
Borneman, John, 6212 Gravois av
Botts, W. P., 6505 Michigan av
Brennan, Michael J., 2610 Rutger
Brewster-Ames Building Co., 810 Olive
Bright, James H. Contracting & Building Co., Lincoln Trust bldg
Brockett, John M., 4253 Sarpy av
Broderick, John J., 5711 N Market
Brueggman, F., 3547 S Jefferson av
Bush, Wm. R. Construction Co., 211 N 7th
Carpenter, A. B., 3629 Iowa av
Casey & O'Keefe Construction Co., 816 Olive
Chapline Realty & Cons. Co., 407 N 8th
Charleville, Benj. G., 1107 Chestnut
Clostermeyer & Green, 3047 S B'way
Conlish, John, 3429 Olive
Conradi, Joseph, 810 Olive
Cooney Construction Co., 412 Fullerton bldg
Crosby, H. W., 4048 Evans av
Crotty, M. M. & Son, 4347 Finney av
Daly & Gillespie, 722 Chestnut
Daman, Wm., 810 Olive
Danes Bros., 2736 Chariton
Denham, Wm. L., 407 N 8th
Dentman, Richard, 7027 Michigan av
Diedrick, Chas. G., 1418 S 18th
Dilschneider, John, 5722 Etzel av
Dooley, Frank X., 3005½ Olive
Dooley, Gus, 4208 Delmar boul
Duffner & Stecker, 113 N 11th
Edwards Bros., 816 Olive
Elias, Wm., 1430 Washington av
Ellerman, E. August, 3446 Sidney
Engel, Jesse, 1806 S 11th
Erdruggger & Beumer, 2909 Nat. Bridge rd
Evans, Daniel, 816 Olive
Evans, Lewis J., 203 N 10th
Eyssell, M. Construction Co., 420-21 Odd
Ferris, Wm. H., 816 Olive Fellows bldg
Fischer, A. A. Architectural & Building Co., 728 Chestnut
Fischer, Carl G., 4214 La. av
Fitzgibbon, J. D., Chemical bldg
Flaunery, Joseph, 1420 Morgan
Fleming, Alex., 5863 Easton av
Frein Building Co., 1113 Chestnut
Frieling, Christian, 3240 N 20th
Gaertner, Aug. H., 2045a Adelaide av
Gahl, Wm. & Co., 2726 Russell
Galvin, Jas. B., 4612 Easton av
Geisel Construction Co., 620 Chestnut
Gerber, G. L., 3705 Juniata
Gerhard, E. C. Building Co., 805 Victoria bldg
Germania Cons. & Building Co., 1340-42 Syndicate Trust bldg
Giese, Frank W., 9090 Halls Ferry rd
Gillespie, R. M. (Brick), 816 Olive
Globe Construction Co., 721 Olive
Gray, O. L., Construction Co. (Large)
Griffith, Wm. F., 816 Olive
Grone, L. H., 202 N 9th
Haase, Christ. E., 2808 S 9th
Handschlegel, Jos., 3822 Ashland av
Hartman Bricklaying & Cons. Co., Odd Fellows bldg
Harvey & Hall, 721 Olive
Helfert, Philip, 6643 Florissana av
Helm Building Co., 4223 Louisiana av
Heman Construction Co., 122 N 7th
Heman, Harry P., 721 Olive
Hennessy, John M., 4592a Evans av
Hill & O'Meara Construction Co., 1413 Syndicate Trust bldg

Hinchman-Renton, Cons. Co., 922-23 Holland bldg
Hluricks, J. G., 7509 Virginia av
Hoffman Contracting Co., Globe-Democrat bldg
Hogan, W. G. Building Co., 915 Olive
Hogg & Reid, 407 N 8th
Hoosac Building & Cons. Co. (Large), 3015 Lucas av
Hughes, David G., 1722a Cora av
Humphrey, Oscar F., 5296 Westminster pl
Hunter, Jas. T., 2607 Howard
Imkamp, Chas. A., 2920 Gamble
Jones, S. L. Building Co., 620 Chestnut
Karberg, Fred. A., 620 Park av
Kelleher, J. P., 1723 Bacon
Kellerman Contracting Co., Roe bldg
Kiel & Danes, Bricklaying & Contracting Co., 816 Olive
Kirkwood, Matthew, 3955 Page boul
Kohlmeier, A. H., 810 Olive
Kuhlman, Chas. F., 2203½ Sullivan av
Kuhnert, John L., 4246 Easton av
Lang, Florian, 708 N 3d
Lee, T. C., Architect & Building Co., 511 Merchantile bldg
Lloyd, Hiram Building & Cons. Co., 816 Olive
Lohman, Wm. H. P., 3841 Indiana av
Lohrum Quarry & Cons. Co., Ft. Osceola
Louisiana Contracting Co., 3839 Duncan av
Low, Jno., Benoist bldg
Loyd, Robert J., 4145 Magnolia av
McCleary, S. T., 3940 Shenandoah av
McClure, Richard P. Construction Co., 203 N 10th
McCormack-Combs-Brainerd, Cons. Co., 802 Columbia bldg
McCully Construction Co., Houser bldg
McGinnis, Chas., 5809 Delmar boul
McInroy & Cousins, 4732 Vernon av
McKelvey Construction Co., 816 Olive
McKnight, J. R., 1712 Arlington av
McMahon, John J., 3721 Cote Brillante av
McTaggart, Edward, 202 N 9th
Manning, L. W. & Son, 24 S 11th
Matheson & Baker, 3662 Park av
Mayer, Benedict, 217 Lafayette av
Merton, S. D., 407 Chemical bldg
Midland Contracting Co., 509 Chestnut
Milburn & Rich, 415 Locust
Millot, Roy A., 4044 Kennerly av
Milne & Gordon, S. Jefferson av nr Mo. Pac.
Mockler, Thos., 4478 McPherson av Ry.
Morley Bros., 1727 S Jefferson av
Morrison, R. W. Construction Co., 722 Chestnut
Moynihan, P. J., 1918 Olive
Mueller, Albert A., 2712 Virginia av
Mueller, F. C. & Bro., 717 Locust
Mueller, Jacob J., 2915 Indiana av
Muir, M. W., 816 Olive
Mulcahy, Patrick, 3216 St. Louis av
Murch Bros. Construction Co., Odd Fellows
Neir, Samuel, 1039a Marlow bldg
Neuroth & Lindner, 3425 Oliver
Nicolson, Theo., 1140 Walton av
O'Brien, Jos. H., 4222 Cook av
O'Malley, John, 8225 Vulcan
Paul, Alfred R., 4599 Evans av
Paulus, Robert, 2205 Ann av
Peters, H. L. & Son, 3025 Texas av
Petty, Benj. Contracting Co., 2413 N 9th
Pickel, John J., 5035a Garfield av
Pipe, Edward C., 5619a Maple av
Poertner, C. H., 2039 E Grand av
Pollman, Aug. F., 2305-11 Victor
Prendergast, Geo. G. Construction Co., Chemical bldg
Price, G. D., Real Estate bldg
Quinn, Jas. J., 716 N 9th
Raithel, Eberhard, 4018 Grove
Raterman Building & Contracting Co., 1943 St. Louis av
Re-Inforced Concrete Construction Co., 803 Columbia bldg
Reinschmidt-Hannl Cons. Co., 906 Olive
Remmers, Harry J., 3735 Windsor pl
Remmers, Jacob H., 1318 Allen av
Remmers, F. J. Contracting & Building Co., 3565 Cook av
Rich Construction Co., 510 Pine
Riechers, Chas. P., 2815 St. Louis av
Riley, Wm. F., Construction Co., 617 Chestnut
Rocklage, Henry W., 1507 Monroe
Roeder, Geo. W., 2924 Magnolia av
Roehl, E. J., 2920 Hickory
Ruhaack, U. F., 2625 Texas av
Rupp, J. F., Building & Contracting Co., 1901 E Warner av
Ruprecht, Wm. & F., 8011 S B'way
St. Louis Contracting Co., Odd Fellows bldg
Saltmarsh, Dan. R., 3837 Easton av
Samuel, W. Russell Construction Co., 421 Sanquinet, R. V., 407 N 8th Chestnut

Sangumette, Paschal P., 4330 St. Louis av
Schaefer, Jos. B., 7227 Michigan av
Schaperkoetter, Louis, 4015 N 25th
Schatz, Adolph, 5212 N 21st
Schenck, Jacob Building & Contracting Co., Salena c Penn
Schneider, Peter, 2508 Elliott
Schober, Frank E., 3116 Eads av
Schubert, Wm., 2140 Allen av
Schuler, C. W., 2842 Texas av
Schulte, W. H. Cons. Co., 8337 Emma
Schultz, Bernard, 2518 N Sarah
Schultz, Chas., 3627 Nebraska av
Schumacher, W. A., 609 Leggett bldg
Selden-Breck Cons. Co., Fullerton bldg
Settle & Co., 810 Olive
Shasserre, E. P., 202 N 9th
Shinnick, Richard, 4186 Morgan
Sinclair Quarry & Construction Co., 620 Wainwright bldg
Skrainka Cons. Co., 806 Security bldg
Smith, Thos. L., 1962 Temple av
Southern Construction Co., 407 N B'way
Sparling, John, 1243 Aubert av
Spore, H. C., Ozark bldg
Stansburg, James A. & Bro., 816 Olive
Stedger, John H., 819½ N 10th
Steininger Construction Co., Victoria bldg
Steininger, E. A. Construction Co., 407 N 8th
Stevens, David, 2815 Clark av
STEWART JAS. & CO. Lincoln Trust bldg
Storek, H. & Co., 819 N 11th
Sullivan, Jas. E., 1419 S Cardinal av
Sullivan, John, 817 N 6th
Sullivan, Michael G., 4291 Margaretta av
Sutherland, Wm. M. Building & Cons. Co., Victoria bldg
Taxis, Harvey Construction Co., Victoria bldg
Taylor, Albert E., 2943a Montgomery
Theby, Michael, 7316 Michigan av
Thomas, L. A., 1138 Pine
Thomson, Henry, 4843 Cote Brillante av
Tranel, Geo. H., 2229 Madison
Triumphfeller, Michael, 2017 E College av
United Building & Cons. Co., 717 Locust
U. S. Conduit & Cons. Co., 407 N 8th
Vickery, Henry H., 5166a Fairmount av
Vollmer, Aug., Jr., 5246 Northrup av
Voss & Korte, 2346 Palm
Wade Bros. Construction Co., 2272 Old Manchester rd
Wagner, E. L. Construction Co., 506 Victoria bldg
Wahlers, Wm. G. C., 3543 Wyoming
Walchshauser, John, 2800 Texas av
Ward, Edward, Chemical bldg
Ware, J. A. Construction Co., Houser bldg
Wende, Fred., 3745 S Compton av
Wende, Frederick, 2613 N Spring av
Westlake Cons. Co. (Large), 717 Locust
Wharton, J. J., 2829 University
Widdicombe, E. H., 816 Olive
Widdicombe, Richard, 620 Chestnut
Widmaier, Wm., 2262 S Jefferson av
Williams, W. H., 2200a Salisbury
Wilson, J. W. & Son, Odd Fellows bldg
Wiud, Anton, 1026 N 14th
Wippler, August, 1431 Goodfellow av
Wippler, Martin, 5240 Paulian pl
Wise, Julius H., Victoria bldg
Wisman, Lorenz & Co., 3009 St. Vincent av
Woitchek, E. G., Lincoln Trust bldg
Wright-Gallagher, Cons. Co., 408 Chemical bldg
Zabaren Cons. Co., 926 Victoria bldg
Zadow, Henry R., 6007 Virginia av
Zeller, Geo. P., 4524 Chouteau av
Ziegelmeier, John S., 7300 Minnesota
SEDALIA—Johnson, T. H.
SPRINGFIELD—Garrett Construction Co.
Snody, I. C.
WEBB CITY—Smith Bros.
Tarrant Bros.
Wigington & Milton

MONTANA.

ANACONDA—Hamill & Caluan
BILLINGS—Billings Construction Co.
Gagnon, E. H. & Co.
Welch & Cederholm
BOZEMAN—Morris, Peter T.
Vreeland, F. W.
BUTTE—Hogan, J. F., 9 W Quartz
O'Brien, Arthur
O'Brien, Wm. A.
O'Connell, Michael D.
Perham, Wallace T.
Sewell, W. J.
Smith, G. M., 321 S Idaho
Union Construction Co.

Walsch, E. W.
Welch, Jas.
Whitney, M. J.
FORSYTH—Robinson, L. W.
GREAT FALLS—Coombs, Frank
Donlin, Jas. H.
Lease & Richards
HARDIN—Gray, A.
HAVRE—Fuller & Bossnet
HELENA—Dryburgh, John
Flske, E. W.
Pew, Howard
Wagner, Edw., 1631 E Lynndale av
MILES CITY—Northwestern Building Co.
MISSOULA—Gibson, A. J.
WARM SPRINGS—Mitchell & Mussigbrod
WHITCOMB—Baker Bros.

NEBRASKA.

ALLIANCE—Reck, S. C.
ALMA—Hostetter, J. E.
ARAPAHOE—Distrow, Edward
COLUMBUS—Ochiltree, H. M.
FALLS CITY—Heineman, C. H.
FREMONT—Denny, P. D.
DAVID CITY—Bushell, W. H.
GRAND ISLAND—Geer & Harrison (Large)
HASTINGS—Cowten, H. H.
LINCOLN—Assenmacher, W. G.
Birchard, G. D.
Bush & Swenk
Campbell, C. D., 1702 S 11th
Campbell, J. A. & Son
Campbell, W. L., 921 Peach
Clyce, E. P.
Harrison, T. P.
Jensen, Louis (Large)
Shaul, Geo. A.
Stephens Bros. Co. (Large)
LOUP CITY—Ohlsen Bros.
NEBRASKA CITY—Hamilton, R. P. & Ed. O.,
Harte, Jno. H., 1609 Webster av 526 Bee
Hoops, E., 1313 Central av
Jobst, B. J., Paxton blk
Kunz, Phillip G.
McWilliams Construction Co.
Metropolitan Construction Co.
Murphy, Hugh, Bee bldg
Parsons & Klene, 17th & Harney
Strehlow, R. C., 3813 Charles

NEVADA.

CARSON CITY—Hudenrelch, Henry
ELKA—Nelson, N. P.
Noland, W. H.
ELY—Dobson, Bros.
Schraven, J. F. & H. E.
GOLDFIELD—Corregan, G. S.
MANHATTAN—Cook, Joseph
RENO—Burke Bros.
Paterson, Andrew
TONOPAH—Flenley, J. J.

NEW HAMPSHIRE.

ALSTEAD—Dickey, John F.
AMHERST—Burt, Edw. K.
ASHLAND—Filfield, Frank
ATKINSON—Mason, S. Burleigh
BERLIN—Rowell, H. C.
Stewart & Snodgrass
BRADFORD—Hemphill, George A.
CANAN—Welch, Wm. H.
CENTER HARBOR—Leighton, James P.
CHESTER—Hardy, Albert M.
CLAREMONT—Beckwith, H. R., Union blk
Stockwell, George T. Tremont sq.
COLEBROOK—Hicks Bros.
Spencer, John
Young, Ellsworth D.
CONCORD—Chesley, Geo. W.
Danforth, Sylvester P.
Duffy, Michael J.
Fellows, C. L. & Co.
Grover, Edward A.
Hall, Byron W.
Hutchinson, E. B. Bldg. Co., Turnpike
Liberty, Jas. F.
Rowell & Plummer, 22 Warren
Sargent, Walter H.
Swain, C. H., Ferrin blk
Virgin & Forest, rear 70 N Main
CONWAY—Chase, John F.
Sawyer, I. A.
Whittaker, John T.
Wiggin Bros.
COOS—Davidson, John L.
Gilbert Construction Co.
DERRY—Bradford, Calvin H.
Griffin, Oscar C.
Marlin, Cyrus A.
Proctor, Gilbert H.

DOVER—Beede, Augustus H., 20 Mt. Vernon
Blshop, R. G., 8 Fisher
Blanchard, Jno. H.
Coleman, W. S.
Cornell, John
Dorr, Chas. C.
Frost, E. H., 270 Central av
Langley, Currier W.
Moulton, Otis E.
Palmer, Orrin
Roberts, Preston F.
Shaw, H. M., 14 Hough
DUBLIN—Patterson, Herbert A.
Sander, Thos. W.
DURHAM—Bunker, John J.
EAST JAFFREY—Hodge, Harlon F.
EPSON—Holmes, Hiram A.
EXETER—Exeter Construction Co.
Stewart, B. D., 14 First
Twombly & Son
Webster, Geo. A.
Wiggin, Orlando R.
FARMINGTON—Copp, F. R.
FRANCESTOWN—Colburn, Ephraim W.
FRANCONIA—Whipple, Elmore
FRANKLIN—Babbitt, C. M. (Large)
Dresser, Jno. W.
Felch, Fred. A.
Kimball, Benj. F.
Morrison James O.
Norwell, Jas. C.
Putney, Nelson J.
GOFFSTOWN—Dodge & Barnard (Large)
GORHAM—Wiley, J. E.
HAMPTON—Dearborn, Samuel W.
Joplin, Abbott L.
Stevens, Chas. V.
HANCOCK—Wood, J. Frank
HANOVER—Bond, John J.
Porter, Asa
HENNIKER—Bunnell, Seth A.
HILLSBORO—Annals, Leon D.
Rumriell, Peter & Sons
HOLDERNESS—Long, A. C.
Perkins, John H.
HOLLIS—Gates, Wm. J.
HUDSON CENTER—Smith, Isaac
INTERVALE—Ward, A. R.
JACKSON—Harriman, Andrew C.
KEARSARGE—Nute, J. L.
KEENE—Burnham, F. K., 66 Mechanic
Gordon, Geo. A., 64 Beaver
Poole, George E.
Purcell, Henry, Railroad
White, C. M., Leverett sq
LACONIA—Davis, A. L.
Guay & Wallace
Marceau, Gideon
Stone, Harvey H.
Stone, H. S.
Thompson, Carl B.
Thompson, Henry H.
Tucker, Wm. H.
LAKEPORT—Meador, John M.
Merrill, Geo. D.
Muzzey, Orvis T.
LANCASTER—Sherwood, W. H.
Simonds, E. E.
Smith, John H.
Stebbins, Jas. A.
LEBANON—Phelps, H. F.
LISBON—Gondle, Lawrence W.
Morgan, S. D.
LITTLETON—Blshop, Henry D.
Fogg, E. O.
Pennock, Ira F.
LONDON CENTER—Tilton, B. F.
MANCHESTER—Blxby, Clinton H.
Brendle, Frank J.
Brunelle & Co., 150 Amory
Bunton & Bernard, 44 N Main
Burton, J. F. (Stone), 22½ Concord
Charnley, Jas. E.
Colburn, C. H., 323 Laurel
Dana, Joseph
Demers, Jos. C.
Eastman Bros.
Finnerty, Thos.
Golgs, F. M., 15 Falls av
Head & Dowst Co. (Large)
Holbrook, George
Lafamme, Frank X.
Landry, Wm. G. (Stone), 390 Cedar
Lariviere, Gideon
Lemire, Napoleon
Lodge, Ernest L.
Lodge, John B.
Manchester Real Estate & Mfg. Co.
Marston, Geo. H., 441 Main
Mendell, J. H. & Co., 1276 Elm
Paige, Nelson W.
Piper, H. A., 112 Manchester
Provost, F. T. & Co., 21 Amory
Read, Geo. L.

Rooper, Waller L.
Seward, Jno. F., 27 Warren
Veasey, E. B., 383 Concord
Whittemore, Cyrus
Wilson, Jno. K.
Wilson, Wm. C.
Wyman, H. S.
MELVIN VILLAGE—Hunt, C. R.
MEREDITH—Bartlett & Smith
MILFORD—Brooks, Ernest C.
Cassidy Bros.
Demontigny, Henry
Johnson, Keith
Winslow, Worcester L.
MOULTONVILLE—Connor, Chas. L.
NASHUA—Atwood, Henry O.
Chagnon, Alphonse, 103 Ash
Cone & Mailhot, 9 Clinton
Erb, W. M. & Co.
Gibson, E. J., 56 Lake
Gibson, Harry W.
Hoit, Duane F. & Son, 282 Main
Nashua Building Co.
Osgood Construction Co.
Sanders, James A., 7 Union
Spalding, Chas. C., 34 Norton
Tetrault, Adolph J.
Watson, Jas. F.
Willard, George A., 115 Vine
NEW BOSTON—Marden, Chas. F.
NEW CASTLE—Davidson, Geo. H.
NEW HAMPTON—Tilton, Joseph C.
NEWINGTON—Hoyt, Benj. S.
NEW LONDON—Smith, R. F.
NEW MARKET—Griffin, Maurice N.
Herson, Louis & Co.
NORTH HAMPTON—Brown, Irving W.
Moulton, Warren B.
NORTH HAVERHILL—Coburn, Willard W.
NORTH WEARE—Hadley, Harry A.
PENACOOK—Barnett, Chas. H.
Chandler, Wm. P.
Morrill, Henry
Sebra, Louis J.
PETERBORO—Nickols, Wm. K.
PITTSFIELD—Caswell, Louis L.
Winkley, Herbert C.
PLYMOUTH—Emerson, Thos. I.
PORTSMOUTH—Chickering, Jas. E.
Cox, Geo. E.
Dame, Byron
Hodgdon, W. A.
Holmes, Chas. H.
Humphreys, Chas. W.
Ireland, Wm. W.
Junkins, Albert R.
Kiernan, W. F.
McKenney, N. A. & Co.
McNabb, E. N.
Magraw, Chas. H.
Martin, J. W.
Pendexter, Daniel P., 13 Hanover
Spinney, Frank A.
Sugden Bros. 27 Cabot
Trefethen, E. W.
RANDOLPH—Boothman, John H.
RAYMOND—Healy, Edward S.
ROCHESTER—Dame, John W., 20 Pine
Letourneau, Jos.
RYE—Rand, Chas. M.
SALEM DEPOT—Bailey, Loring B.
Borchers, Chas. H.
Thom, Geo. W.
SANDOWN—Kelly, John D.
SPOFFORD—York, J. W.
STRATHAM—Brewster, Frank H.
SUNCOOK—Batchelder, Geo. F.
Colby, James D.
McDonald, Moses
TEMPLE—Tuttle, Frank A.
Tuttle, James S.
TILTON—Cross, Fred. H.
Gilman, Frank A.
Lawrence, Frank P.
Page, Daniel M.
Sanborn, Ford T.
Sargent, Wm. O.
Worthen, Arthur L.
WEST SWANZEY—Nash, O. C.
WHITEFACE—Weed, L. D.
WHITEFIELD—Thayer, Harvey A.
WILTON—Emerson, Henry L.
Robbins, Chas. E.
WINCHESTER—Hildreth, E. C.
WOLFBOBO—Goodwin, J. F.
Hershey, Fred. E.
WOODSVILLE—Gordon, James
Lowe, James R.

NEW JERSEY.

ALLENDALE—Van Blarcom, S. G.
ALLENHURST—Morrow, Geo. D.
ALLOWAY—Bee, Geo. E.

ANGLESEA—McLinden, Jas.
Taylor, John

ARLINGTON—Abel, Alvah W.
Beills, Wm. C.
Clarkson, Jno., 584 Chestnut
Jacobson, Jno. J., 402 Elm
Jersey, Stephen Y. & Co.
Pierce, Cyrus A., Argyle av nr Laurel av
Salmond Bros., 160 Midland av

ASBURY PARK—Bartholomew, S. L.
Burke, Jno.
Durrach, G. L.
Ferris, Cyrus C.
Lippincott & Son
Martin, J. W.
Mooney, J. F.
Patterson, Wm. J.
Reid & Pearce
Sexton, D. W.
Smock, B. L.
Taylor, I. R. & Co.
White, H. D. & Son

ATLANTIC CITY—Albertson, Smith J.
Andrews, Walter H.
Balestrieri, R. & Co.
Beaumont, Willbert
Bowen Bros.
Bowen, John W.
Buckley, Elwood
Conover, Josiah
Cramer, Augustus
Creighton, J. H.
Cunningham, Frank M.
Goff, Garner T.
Hamptou Bros.
Hannum, Philip
Headley, Samuel H.
Henry, Lemuel H.
Higbee, Willbert S.
Horner, Chas. F.
Ingersoll & Weeks
Knaner & Co.
Kohl, Chas. R. & Son
Lee, Edward S.
Maginnis, John W. R.
Marcus, Andrew
Mathis, Hiram
Mathis, Job & Son
Miller, Augustus C.
Moore, Alfred
Mulock, H. G. & Co.
Murtland, John
Parsons, Howard
Risley, Nathaniel & Son
Scull, Harry G.
Smith, Ellsworth E.
Smith, W. H.
Snyder, C. W. & Co.
Steelman, Jas. E.
Thompson & Stiles
Turner, John F.
Young, Nicholas W., 13 S Ohio av

ATLANTIC HIGHLANDS—Miller, Calvin W.
Monmouth Contracting Co.
Roberts, D. J.
Stout, Jacob T. & Son
Wells, Wm. L.
Woodward, John

AUDUBON—Lange, Fred.

AVALON—Holmes, Hughes H.
Kates, Geo.

BARNEGAT—Tolbert, A. H.
Tolbert, Harry A.

BARNSBORO—Skinner, John T.

BASKING RIDGE—Allen, J. Walter
Allen, Samuel A.
Benden, Geo.
Snable, Sidney

BAYONNE—Buell, Berton D.
Bull, John & Sons (Large), 10 W 13th
Bunn, Jno. W., 19 W 43d & 20 W 44th
Lipman, Meyer
Murphy, Daniel J.
Pharo, J. Anderson, Avenue D n 33d
Sippel, Gustav
Tocci, Nicholas, 1048 Boul
White, Michael, 7 North
Winters, H. W., 476 Avenue E

BEACHHAVEN—Hewitt, H. C.

BEDMINSTER—Flomerfelt & Hnyler
Tuttle, John W.

BELLEVILLE—Becker, Jos.
Dickerson, R. E.
Kellsall, Jas.
La Faucherie, Jno. O.
Marion, G.
Mellis, Daniel
Mutch, Edward J.
Risicorvoecia, Lnigl
Swick, Geo. A.
Travers, John

BELMAR—Hutchinson, Forman S.
Pierce & Mount

BERGEN FIELD—Abrahams, Oscar
Bogert, Harry
Demarest, Chas. L.
Demarest, Wm.

BERNARDSVILLE—Babbitt, S. Eugene
Diehl, James
Hoffman, Harry W.
McWilliams, H. & J.
Westlecraft, G. & Son

BEVERLY—Hammel, Joseph E.
Kolster, Joseph E.
Merritt, Theo. G.

BLAIRSTOWN—Logan, J. R.

BLOOMFIELD—Ainlar, L. Jerome
Ashley, Hubert G.
Bitterle, Alfred, Hendricks pl
Brown, John
Callin & Peters, 19 Baldwin
Campbell, Wm. A.
Crane, Jno. M.
Day, Robt., 265 Broad
Deip & Shuboy
Doremus, Andrew Co., Walnut ter
Fredericks, Chas.
Garner, Samuel
Griffith, Eben L.
Griffith & Moore, 41 Orchard
Higgins, Thos. H.
Jacobus, Israel
Jacobus, Richard D., 213 Ashland av
King, Hugh D.
King, John H.
Nicholl, James Y.
Raab, Wm. R.
Raenisch, Emil E.
Schofield, Geo. H.
Sempier, John
Spatz & Law
Vreeland, L. O. & J. R.
Ward, Edwin

BLOOMINGDALE—Mead, S. & W.
Provost, J. H.
Sisco, John F.

BLUE ANCHOR—Hunter, Erford C.

BOONTON—Miller, E. S.
Simons, J. G.
Tompkins, Daniel D.
Van Ness, Josiah

BORDENTOWN—Herbert, Thomas
Higgins, Jos. W.

BOUNDBROOK—McNab, Jno.
McNabb, Jno. & Chas.
Miller, Jas. F.
Miller, J. Theodore
Moorecraft, Wm.
Stryker, Geo.

BRADLEY BEACH—Bennett Bros.

BRANCHVILLE—Thompson & Price

BRIDGEBORO—Gaskill, Rodman P.

BRIDGETON—Bacon, Smith
Conover, Albert
Elwell, Hy. O.
Lupton, Alfred H.
Pierce, Wm. H.
Sharp, Leander
Steelman, Joseph
Williams, Mark H.

BURLINGTON—Keple, Atwood
Lippincott, J. D., 165 W Broad
Necross, J. J., 450 Locust av
Williams, Harry H.

BUTLER—Gormley, Chas.
Shippie, Jno.

CALDWELL—Beach, Joseph E.
Beach & Welton
Gould, Wilbur B.
Harrison, Samuel D.
Paddock, Sherman & Son

CAMDEN—Bachmann, Geo., 19 N 30th
Baker, Omar N., 804 S 5th
Brown, Lewis W., 19 George
Budney, Henry A.
Cornelius, Frederick H.
Draper, James W.
Dunphy, B. Frank, 1010 S 5th
Elchfeld, A. E.
Foulkes, Harry L., 516 Line
Fralzer, Wm. L., 2717 High
Harden, Frank J., 961 S 9th
Heisler, Pelrce, 713 Elm
Hinchman, Henry G., 223 Arch
Hosler, Wm. R., 105 N 25th
Mansfield, Harry, 3415 Federal
May, W. Irwin
Reed & Co.
Schaal, Robert, 2801 Wayne av
Severns, Wm., 516 Columbia av
Sharp, Daniel H.
Sharp, Harry C., 410 Main
Sharp & Fanst
Shnster, Chas. H., 526 N 3d
Sweeten, B. F. & Son, 111 N Delaware
Turner & Stewart (Large), 828 B'way
Welsh, John J., 525 Clinton

Winter & Harden
Wizst, Hugh
Wrlford, Wm.

CAPE MAY—Cassaday, Wm. F.
Garretson, Chas. T.
Godfrey, Hiram W.
Hanes, Jos. H.
Hoffman, Reuben S.
Sickies, J. Edward
York Bros.

CARLSTADT—Kastner & Semper
Kock, Julius Co.
Letzeiter, Peter
Rasmus, John N.
Rnezlnsky, Harry

CARTERET—De Bow & Glendining
Hansen, Hans

CHANGewater—Castner, Theodore

CHATHAM—Brown, O. R.
Trowbridge, Alfred M.

CHATSWORTH—Adams, Chas. E.

CHROME—Koed, Soren
McCarthy, Philip D.

CLAYTON—Downs, Samnel

CLIFTON—Bailey Bros.
Glnnewarie, John
Johnson & Anema
Parden, Frank & Vincent
Parden, John

COLDSPRING—Hoffman, Joseph
Woolson, Albert H.

COLLINGSWOOD—Doughty, Andrew K. H.
Fletcher, Chas. S.
Gill, Henry
Jaggard, John
McGill & Loper
Patterson, Walter L.

COLUMBUS—Nixon, A., Jr.
Page, Abner J.

CRANFORD—Currie, D. B.
Dickenson, Frank R.
Fox, Chas. J.
Gabbett, John
Kreiel, Deidrich
Loveland, Lyman J.
Moore, Jas. G.
Newbury, Geo. C. & Son
Telchman, Carl

CRESSKILL—Westervelt, Simeon

CRYSTAL LAKE—Bush, C. H.

DELANCO—Hamlin Bros.

DELAWARE—Dence, Alfred M.

DOVER—Allen & Palmer
Eckhart, John J.
Fanning, Thos.
Gies, Frank J.
Hiller & Egbert
Monez, Joseph
Roderer, Andrew
Shoemaker, Abram L.
Wilcox, Nathaniel B.

DUMONT—Jacob & Graves
Russell, Omar G.
Van Orden & Hopper
Waldron Bros.
Whitaker, Benj. J.

DUTCH NECK—Bowers, Lewis O.

EAST NEWARK—Duffy, Thos.
Hoffman & Grafe
Laughlin Bros.
McGlenon, Patrick
Mather, G. W. & Son

EAST ORANGE—Allen, Harris W.
Apgar & Co. (Inc.)
Barradale, Jas. G., 251 Elmwood av
Bonnell, N., 12 Steuben
Brown, Jos. M.
Carter, Azariah H., 373 William
Collyer & Coddington
Coryell, Jno. & Sons
Cowell, Chauncey E.
Coyne & Condit
Cronsberry, Geo. H.
Curtis Bros., 20 Sterling
Cyphers, L. W.
Doremus, E. & Co., 174 Main
Grobert, Hy.
Harrison, Robert
Hickson, Wm. T.
James, Wm. T.
Kelly & Boland
Kennah, Wm. C.
Larson, L. A.
Lee, Jos., 46 Meadow
McDermott, Robert
McGovern, Bernard
McMiller & Moll
Maurer, Frederick
Mills, John B.
Moller, John
Moore, David E.
Patterson, Stephen S., 87 Sussex av
Richardson, Chas. W.
Shauger, Chas. H. & Bros.

Shauger, J. Andrew
 Stewart & Co., 500 Main
 Struck, Frederick M.
 Tucker, Geo. H.
 Van Horn, Wm. T.
 Walters, Geo. H.
 Warren, Albert E.
 Weber, Frank F., 482 Main
 Wooley, Wm. S.
EDGEWATER—McGarry, John J.
EDGEWATER PARK—Pennington, E. E.
 Shaner & Miller
EDINBURG—Tindall, John Henry
EGG HARBOR CITY—Green, Jacob
ELDREDGE—Cummings, Wm. L. & Son
 Ewing, Samuel E.
 Hand, Walter N.
ELIZABETH—Applegate's, Jno. K. Sons, 136 B'way
 Barnes & Van Bergen
 Beglan, Michael, 428 Fulton
 Brethauer, Carl, 614 1st av
 Budd, Thomas B., 286 Morris av
 Buss, Geo., Jr., 557 1st av
 Byrnes, Michael Building Co. (Large), 430 Westfield av
 Cantwell, Timothy J., 425 Spring
 Clifford, Wm. (Large), 360 Union av
 Craig, Chas. A.
 Cummings, Michael
 Daly, Cornelius J.
 Dippel, Daniel, 533 Franklin
 Dow, Henry C., 449 Morris av
 Ellbacher, Charles (Large), 32 4th
 Faughnan, Patrick
 Fisher, Spencer L., 1101 E Grand
 Flocken, Chas., 681 Newark av
 Flynn, Wm. J., 823 Garden
 Frederick, Chas. L. & Sons, 421 Franklin
 Friedrich, Chas. E., 450 Elizabeth av
 Hammer, Philip N.
 Hudson & Dickison
 Jensen & McCardell, 439 Franklin
 Johnson, Henry
 Kerr, Alex. & Son (Large), 309 Trinity pl
 Kirchner, Henry, 122 Smith
 Klett, Gottlieb
 Lammerding & Devine, 227 Broad
 Ludwig, John J. & Co., 569 4th av
 Merrill & Faughnan, 118 Elm
 Mueller, Aug. & Son, 141 5th
 Noonan, Thos.
 Palmer, Jacob E.
 Pierson, Caleb C.
 Pierson, Walter C., 1175 E Grand
 Pullen, Frank 731 South
 Rieder, Wm. F.
 Sayre, E. M. & G. R.
 Schlottterer, G. H., 622 Franklin
 Schmieder, Frank & Son, 842 3d av
 Sheridan, Jno.
 Stephens, Wm. C.
 Thornton Bros., 252 B'way
 Thorpe, Silas H.
 Viscount, Thos.
 Wade, Matthew
 Warren, James W. (Large), 261 W Grand
 Wasdell & Karr
 Weltchek, Morris
 Winans, F. T., 825 Grove
ENGLEWOOD—Bogart, G. D. & Bro.
 Bogert, Chas. A.
 Bried, Jas. L.
 Brucker, Chas.
 Demarest & Son
 Gulnac, Jas. M.
 Lyndecker, John
 Mackenzie, R. H.
 Oberg, F. G.
 Papin, E.
 Reeve, Wm. D.
 Tailman, Abram
 Vignaux & Moller
 Westervelt, John S.
ERIAL—Shellinger, R. V.
FAIRFIELD—Kanouse, Theo.
FAIR HAVEN—Smith, Arthur E.
 Smith, Geo. W.
FAIRVIEW—Fink, Henry D.
 Iasillo, Alfred
FAR HILLS—Flomerfelt & Huyler
 Layton, Joseph
 Moore, Thos.
 Pantley, Wm.
FORT LEE—Abbott, John L.
 Fort Lee Contracting Co.
FRANKLIN PARK—Bodine, John A.
FREEHOLD—Brower, Frederick A.
 Emmons, Conrad (Brick)
 Pitcher, H. B.
 Soden, Wm. H.
GARFIELD—Passaic & Garfield Cons. Co.
 Soyka, Geo.
 Troast, Jacob A.
 Warnaar, G.

GARWOOD—Schaefer & Neuman
GIBBSBORO—Smith, Geo. S.
GLADSTONE—Bodine, John
GLOUCESTER CITY—Bowe, Lawrence A.
 Casey, Geo. A.
 Walker, Harry W.
GRANTWOOD—Key, Joseph H.
 Raas Bros.
GREAT MEADOWS—Merrill, John
GRIGGSTOWN—Voorhees, Wm. A.
GUTTENBERG—Cade, Jno. R.
HACKENSACK—Ackerman, Aaron E.
 Birley, Geo. H.
 Collins, Geo.
 Delaney & Ferber
 Guthrie & Cronin
 Hoth, John C., Central av nr 20th
 Long, F. R. Co.
 Voorhis, J. A.
 Yerance, Richard
HADDONFIELD—Albright, Henry
 Capern, Wm. S.
 Holloway, Frederick
 Hoopes, John C.
HADDON HEIGHTS—Hughes, Chas. H.
HAMBURG—Drew, R. E.
 Dymock, J. & Son
 Rumsey, Thos. B.
HAMILTON SQUARE—Drake, Geo. F.
HAMMONTON—Baillard, Daniel (Brick)
 Hannum, I. B.
 Myers, Charles P.
 Strickland, E. W.
HARRISON—Bruder, M. J.
 Cook, James B.
 Coyle, John J.
 Coyle, Wm. H.
 Higgins, Michael
 Keegan, Thos.
 Lawless, Martin
 Leen, John J.
 Newbon, Henry W.
 Sanford & Coyle
HARRISONVILLE—Swigert, Michael
HASBROUCK HEIGHTS—Hatfield & Bazire
 Thurston, Lester L.
HIGH BRIDGE—Hoffman, I. N.
HIGHTSTOWN—Dillon, Wm. H.
HIGHWOOD—Grasing, Albert
 Stagg, Chas.
HOBOKEN—Cattello, M.
 Erxmeyer, Henry, 218 Park av
 Farrell, Martin & Son, 1106 Garden
 Hayes, Michael
 Junge, Claus & Son
 Lindner, Philip
 Muller & Co., 78 Madison
 Rath, Robert
 Runtun, Jno. & Son, 10th e Clinton
 Schultz, Julius
 Scuttelaro, Frank
 Westbrook, A. L.
 Whalen, James
 Whan, Alex., 1317 Garden
HOLLY BEACH—Barber, C. E.
 Hewitt, Harry
 Scully, O. J.
HOPEWELL—Drake, W. F.
 Drake, W. W.
 Sutphin, H. D.
HURFFVILLE—Jones, Jesse
IRVINGTON—Gould, W. O. & Co.
 Gruhn & Schwarz Co.
 Haase, Paul M.
 Kuscher, Adolph G.
 Niebuhr, David
 Quinn, Jas.
 Zacher & Kurrele
 Zipperlin, Fred.
ISLAND HEIGHTS—Applegate, Harry W.
 Bogart, James H.
 McKaig, Chas.
JAMESBURG—Perrine, Buckelew Co.
JERSEY CITY—Anderson & Johnson, 19 Delaware av
 Bonner, Michael J., 94 Booraem av
 Brugel, Herman, 17 Stevens av
 Byrne, Patrick, 389 Montgomery
 Carrington Construction Co., 7 Prior
 Carswell, Geo. A., 11 Jones
 Connolly, Michael T., Contracting Co., 238-42 17th
 Cook, Robert, 473 Mercer
 Crane, J. M., 267 Academy
 Crone, A. W., 489 Central av
 Cummings, W. F. & D. J., 534 Mercer
 Delatash, Henry Co., 526 Newark av
 Drake, Jno. M., 772 West Side av
 Eckes, John, 123 Franklin
 Egan, Geo. F. Contracting Co., 224 Coles
 Eichman, Robert W., 442 York
 Gannon, Bernard, 41 Graham
 Gollick, Stanley, Co., 127 Chestnut av
 Hackett, Martin Sons (Inc.), 224 Griffith
 Hartwick, Frank, 3451 Hudson boul

Holmes & Cogan, 96 Garfield av
 Jewkes, Jos. & Sons (Large), 676 Montgomery
 Jones, Geo. H., 342 8th
 Keesler, Stanley D., 78 Columbia av
 Kling, Samuel B., 479 West Side av
 Kuederly, Chas., 319 Communipaw av
 Lemser, Andrew, 440 Communipaw av
 Lena, P., 20 Centre
 Leshner & Wagner
 Lindsay, James C., 166 Randolph av
 Lothrop, Jno. M.
 Myers, Albert W., 377 Forrest
 Nibbett, Henry Z. & Sons, 123 R. R. av
 Nolan, John, 108 Bergen av
 Noonan, Robert D., 30 Sussex
 O'Neill, Edward P., 37 Concord
 Pickell, Geo. J., 521 Communipaw av
 Redfern, Peter F., 571 Jackson av
 Robertson, Wm. & Son, 15 Exchange pl
 Ross, Alexander, 46 Clerk
 Russell, E., 619 Communipaw av
 Shannon, J. H. & R. Co., 566 Communipaw av
 Shedden & Simms, 46 Prescott
 Smith P. S. Co., 813 West Side av
 Stillman, F. M. Co., 26 Exchange pl
 Tmulty Bros., 59 Brunswick
 United Contractors Corporation (Large)
 Wheelihan, Jas. F., 767 Montgomery
 Whyte, W. R., 36 Oakland av
KEARNY—Carruthers, Jno.
 Collins, John
 Connelly, P. J. Co.
 Crookall, Henry
 Duun, Elizabeth (Mrs. Jas. G.)
 Entice Bros.
 Levison, Christian
 Mackie, Frank A.
 Nairn, Wm. Co.
 Rizzolo, Vito A.
 Ross, John
 Smedberg, Alfred
 Williamson, Alex. G.
 Young, Robert & Son
 Zelff, Zetho E.
KEYPORT—Davison, G. L.
 Langan, Geo. M.
 Young, Geo. N.
LAKEWOOD—Applegate, Howard
 Hyde, Walter C.
 Irons, Geo. E.
 Irons & Tappin
 Johnson, Ellwood
 Newman, W. Preston
 Peters, Jno. B.
 Shue, A. W.
LAMBERTVILLE—Arnett, Geo. W.
 Lambertville Construction Co.
 Parker, Fred. R.
LONG BRANCH—Alexander, W. H. Bros.
 Baxter, Geo. W.
 Brehm & Schulthorp
 Campbell, Jas., Jr.
 Cloughly, Jas. & Son
 Conk, Wm.
 De Waltearss, W. M. & Son
 Finn, Jos. & Co.
 Hughes, R. H.
 Hyer & Wright
 Melee, Owen J.
 Nelson, Frank
 Poole, M. V.
 Potter, J. C.
 Proctor, Thomas
 Sherman, Hiram M.
 Stanton, Horace
 Tapyin, Robert
 Wood & Patton
 Wooley & Burchell
MADISON—Apgar & Colver
 Corbett, Jno. V. (Stone & Brick)
 Corbett & Clark
 Joyee, Thos. J.
 Kyne, Wm. E.
 Stull & Philower
MILLBURN—Carter, E. L.
 Wolf-Jilson-Douglas Co.
MILVILLE—Chambers, A. J.
 Goodwin, Eugene B. (Large)
 Hoffman, Henry
 Hoffman, Jas. S.
 Sheppard, Secley F.
MONTCLAIR—Beschercr, Jacob S., 4 Montague
 Bettinson, Harry C.
 Boxall, George
 Brady, F. A. & G. A.
 Campbell, Geo. & McLeod
 Carlson, Jno. S. & L. Co., Greenwood av c
 Clark, Allison P., Jr.
 Cokefair, E. H., 258 Park
 Courter, John R., 4 Friendship pl
 Crawford Co. (The)
 Dodd, E. Forrest, 115 Walnut
 Enarson, Gustaf
 Feeney, Owen, 179 Valley rd

Fuseo, D.
 Gibbs, Fred. W.
 Greeuer, Alfred, 96 Church
 Jacobus, Wm. B.
 Kent, John H.
 McNamara, John J.
 Manuel, John, 110 Glenridge av
 Marley, F. J.
 Meuser & Thieringer
 Nelson, Nels. P.
 O'Neil, Jas., 161 Claremont av
 O'Neil, John P., 68 Orange rd
 O'Neill, Jeremiah L.
 Paxton, Jesse
 Pickeu, Jno.
 Ring, Edw. D.
 Sigler, Theo., Cliffside av
 Sims, Benj. G., Mountainview pl
 Smith, Frank A.
 Terhunc, Peter, Valley rd
 Thieringer, Gottlieb
 Trowbridge, C. Shaw Co.
 Wikstrom, Augusta
 Wikstrom, Willie
MORRISTOWN—Allen, Geo. T.
 Barkman, W. F.
 Berry, Enoch
 Collins, Jno. D.
 Daiglish, Robert
 De Coster Mills Co. (Large)
 Dempsey & Cooney
 Lindsley, Chas. R.
 Marinaro, Nicholas
 Mitchell Bros.
 New Jersey Engineering & Construction Co.
 Reeve & Burr (Large)
 Sturges Bros. (Large)
 Toms, Stewart M.
 Wilday, David H.
 Wilson & Griffith
MOUNT HOLLY—Allen, Walter
 Couples, E. D.
 Esham, E. W.
 Gale, W. S.
 Howell, Frank P.
NEWARK—Allen, Wm. H., 72 Kearny
 Allen & Scott, 110 Verona av
 Ballard, Wm., 277 Runyon
 Becker, L. C. & Bro., 415 13th
 Bebler, Frederick, 24 Dey
 Bennetto, James T., 279 N 6th
 Berlin Construction Co., 22 Clinton
 Bingham, Wm. K., 395 Mulberry
 Blanchard, Wm. L. & Co., 45 Pioneer
 Bloom, Joseph, 80 Fillmore
 Bork, Wm. F., 854 S 19th
 Brown, Geo. & Co. (Stone), 270 Passaic
 Burns, Jas. M., 29 Freeman
 Cain, Elmer, 149 Watson av
 Callan, Jno., 21 N 13th
 Carnahan & Wallace, 99 Central av
 Carter, A. P., 186 4th
 Cerrato, Antonio, 14th av
 Christiansen, Wm. A., 149 Belmont av
 Clark's, A. H. Sons, 45 Clinton
 Connolly, James, 131 Newark
 Connolly, W. H., 137 S 7th
 Crane, Wm. M., 109 Roseville av
 Crowder, A. J., 36 High
 Davis, Jas. N., 4 Nichols al
 Day, Charles T. & Co., 613 N 7th
 Decker, Zahn Co., 333 Elizabeth av
 De Sefano, Rocco & Bros., 17 Hayes
 Dey & Waters, 292 N 5th
 Dickson, Henry (General), 22 Clinton
 Diebold, Gottlieb, 429 S 9th
 Donabue, A. J., 3 Eagle
 Donahue, John A., 59 Winthrop
 Doremus, Harry C., 113 Vanderpool
 Doremus, H. M. Co., 79 Orange
 Eckmeter, Jas. M., 313 Halsey
 Eitel, Fred. & Co., 146 Brill
 Enstice Bros., 45 Clinton
 Fatzler, F., 558 S 10th
 Filippone, Vincenzo, 415 5th
 Fredericks, Geo. J., 168 Parker
 Frey, Wm. H., 257 Rose
 Freygang, Richard, 330 S 10th
 Froehlich, Geo. A., 100 N Munn av
 Garrabrants, A. J., 232 E Kinney
 Garrigues, Milton S., 22 Norfolk
 Gatchell, Albert N., 304 Sussex av
 Gibson, Theodore G., 75 New
 Guthrie & Hogan, 387 Sumner av
 Glassner, Saffner & Silverman, 828 Broad
 Gould, D. E., 152 Badger av
 Gould, Henry D., 36 Clinton
 Grimm, Joseph, 206 14th av
 Guarino, Francesco, 20 Dreff
 Guerlin, Isaac B., 23 William
 Guerlin, Richard B., 55 Astor
 Haas, Louis, 76 Wall
 Hammel, John, 131 Van Buren
 Harrison Cons. Co. (Large), 837 Broad

Hastings, Frank, 72 Orchard
 Hedden, Charles M., 273 Halsey
 Hedden, V. J. & Sons Co., 431 Ogden
 Hedden, Wm. E., 24 Warwick
 Heilrich, Geo. A., 112 Badger av
 Hendershot, Theo. D., 2 Court
 Herrman, Theobald, 570 S 12th
 Heyeck, Wm., 43 19th av
 Hirst, James H., 790 S 19th
 Hopkins, Robert L., 91 S 19th
 Hopper, Daniel, 199 Woodside av
 Husk, Lewis E., 98 Delavan pl
 Isetts, Walter E., 186 Johnson av
 Jacobus, Geo., 190 2d
 Jacobus, Jas. W., 54 Irving
 Johnson, Horace C., 414 Washington
 Johnson, S. P. & Co., 43 Camp
 Jones, Wm. C., 223 Roseville av
 Kilgus, Fred., 13 S 6th
 Kirk, Geo., Jr., 520 3d
 Kleeman, A. E. & Son, 493 S 10th
 Kleissler, Christian, 92 Barbara
 Kraemer, Aug., 646 S 13th
 Landgraf, Geo. & Son, 154 Chadwick av
 Lanning, Jas. W. & Son, 118 Market
 Laughlin, Frank P., 60 New York av
 Lonegran, Jas., 209 4th
 McCarthy, John, 169 Sussex av
 McCue, Francis F., 84 Harper
 McCurdy, Wm. A., 806 Ridge
 McPeck, Frederick P., 275 N 6th
 MacDougal, W. S., 44 Gould av
 Maier, Christian, 386 S 20th
 Matthews, James J., 55 3d
 Maul, Gustave F., 780 S 18th
 Mears, Luke & Son, 319 N 6th
 Meisul, Chas. A., 357 13th av
 Melville, Wm. W., 641 Ferry
 Merrill, Geo. M., 27 Wright
 Merz, Simon, 12 Bremen
 Mickens, Ludlow, 160 Sylvan av
 Midland Contracting Co., 11 Clinton
 Miller, Aaron W., 14 Essex
 Miller & Sons Co., 33 S 13th
 Milone Construction Co. (Not Inc.), 164
 Mueller, Chas. J., 765 Hunterdon Market
 Mueller, Rudolph, 816 Hunterdon
 Mulchahy, David B., 97 Washington av
 Murray, Jas., 91 Parkhurst
 Neuhaus, Frederick, 567 S Orange av
 New Jersey Contracting & Engineering Co.,
 Badger av e Bigelow
 Nicklas, Geo., 271 Chadwick av
 Oakley, E. I., 18 Walnut
 Oberle, Joseph, 33 Peshine av
 Obner & Relchert, 75 N 14th
 Oliver, Edward O., 194 Marclay
 Oschwald, Joseph (Large), 118 Market
 Otto & Zusi, 779 Hunterdon
 Parker, Lewis Building, Cons. Co., 40 La-
 fayette
 Parker, Wm. C., 15 Wright
 Patrick, Robert N., 57 Halleck
 Peter, Jacob, 127 Frelinghuysen av
 Peter, Lucas, 92 Niagara
 Pewtner & Co., 631 Hunterdon
 Pfeifer, Matthias, 89 Barbara
 Picot, Philip J., 57 Columbia av
 Pierson, Fred. L., 61 Wright
 Pruden, Ford K., 45 Clinton
 Renner, Herman, 12 Gareis
 Reynolds, Thomas, 865 S 19th
 Rhodes, Chas. K., 64 Avon pl
 Riddle, John H., 278 S 9th
 Rizzolo, Donato, 10 6th av
 Rizzolo & Rizzolo, 11th nr Chester av
 Robinson, Jas. E., 274 South
 Roehrick & Strecker, 78 Ann
 Roh, Robert, 208 S 7th
 Roll, Chas. W., 79 Blecker
 Sanford, A. E. Co. (The), 158 Passaic
 Schaefer, Wm., 786 S 18th
 Schaedel, Charles & Bro., 118 Bruce
 Schneider, Herman C. Building & Cons. Co.,
 500 15th av
 Schoner, Edw. D., 75 Green
 Schoonover, Abram D., 256 Market
 Schubert, Joseph C., 364 S 11th
 Schweickert, Gebhardt, 106 14th
 Shanley's, B. M. Sons Co., 859 Broad
 Sharwell, William G. & Co., 320 N 6th
 Shaw, Jas. S., 85 Chestnut
 Shaw, Jno. W. & Son Co., 351 S 9th
 Siebrecht, Conrad F., 271 Fairmount av
 Staeger, Oscar & Sons, 448 S 9th
 Skellenger, P. H. & Co., 16 S 8th
 Smith, Frank R., 94 Clay
 Snyder, Frank W. Contracting Co. (Not
 Inc.), 372 Grove
 Sommer, Joseph, 51 Winans av
 Sutphen, Court V., 16 Herbert pl
 Terhune, Frank A., 668 Mt. Prospect av
 Then's, Louis Sons, 13 Barbara
 Thornworth, David, 26 Nye av
 Townley, Wm. H., 161 Elizabeth

Trautwein, Gottlob, 111 Pesbine av
 Trivett & Walters Co., 7 Bond
 Tromans, Alfred, 1126 S Orange av
 Tucker, Franklin P., 84 New York av
 Tunstead, Geo. S., 222 Norfolk
 Utter, Frank N., 10 Elizabeth av
 Van Cleaf, Chas., 86 Orator
 Vanderhoff, Myron E., 533 Hawthorne av
 Vanderhoff, Peter & Sons Co. (Large), 285
 Van Ness, John H., 158 Jefferson Broad
 Varley, George & Sons, 29 Hudson
 Vliet, Jno. W., 85 Academy
 Volker, Andrew, 417 Grove
 Voohis, Geo., 359 Woodside av
 Vreeland, Frank, 35 Silver
 Waldron, Edward M. & Co. (Large), 84 S 6th
 Weber, Jacob, Jr., 13 Bremen
 Willetts, Enos, 458 Jelliff av
 Winterbottom, Theo. L., 909 Clifton av
 Winterbottom & Van Houten, 148 N J. R R
 Wittel, Jacob, 432 Bergen av
 Wlasak, Alois, 16 Gareis
 Wolf, Henry, 318 Elm
 Wolff, Wm. C., 193 Clinton pl
 Wonderly, W. F. & Co., 252 N J R R av
 Young, H. M., 35 Essex
 Zelfiff, John, Sherman, 11 Hinsdale pl
 Zwigard & Schrover, 524 Bergen
NEW BRUNSWICK—Board, Lewis, 126 Easton
 Brower, Jos. F. av
 Hendricks, John & Sons, 263 Seaman
 Hendricks, Peter H. & Son, 288 Redmond
 Holman, J. & T., 180 Townsend
 Jelin, Abraham
 Kerwin, John F. & Co.
 Leary, Wm. E.
 Manly, Andrew T., 12 Easton av
 Moran, Patrick J.
 Oliver, H. V., Contracting Co.
 Rule, George B., 71 John
 Sylvester, Chas. C., 177 Redmond
 Van Sickle, Wm. H., Jr.
NEWTON—Walker, Geo. A. (Large)
NUTLEY—Ackerman, Henry
 Bross & Keyser
 Carter, Chas. H.
 Cueman, A. & S.
 Kierstead, Lester
 Mutch, Jno.
 Norman, Walter
 Stager, Arthur
 Wieman, Jno.
 Whitfield, H.
OCEAN CITY—Bourgeois, Geo. A. & Son
 Carsou, Leander S.
 English & Johnson
 Marts, John
 Scull, Allen
 Steelman, Jacob C.
 Stetzer, Chas. L.
ORANGE—Anderson, J. S.
 Attridge, Thomas
 Berryman, John, 7 Alder pl
 Brennan & Finnegan
 Carhart, Hennell, 26 Stetson, O. V.
 Clark, Wm. W.
 Connors & Fistin
 Coyne, Chas. F., 132 Day
 Davis, John L., 8 Freeman
 De Coster, Chas. H.
 Dodd, Chas. E. Co., 249 Main
 Driscoll, John F.
 Edwards, Wm. F. & Co.
 Essig, John
 Everett, John B., 11 Elm
 Finneran, Bernard, Jr.
 Fraser, John G.
 Frey & Porter
 Gasner, Jos. F.
 Hickson, Wm. T.
 Hoffman, J. A. & Sons
 Kearns, Patrick
 Kotze, Frank C.
 Lightholder, John & Son
 McCloskey, Charles A., 87 Lakeside av
 McDevitt, Andrew
 McElnea, Henry
 Meeker, C. B.
 Maloney, Frank A.
 Morlock, Sebastian, 19 N Jefferson
 Mount, Thomas A.
 Neil, Chas., 94 Watchung av
 O'Connor, M. J.
 Oakley & Roberts, 211 White
 Pearce, George, 203 Tremont av
 Pearson, Alex. E.
 Preiss & Co., 127 Essex av
 Sau, G. S.
 Sickler & Vreeland, 200 Scotland
 Soveral, Howard S.
 Thatcher, Norman H., 164 Alden
 Wallman & Co.
PALMYRA—Hall, Geo. W.
 Headington, Wm.

Shade, Jno. W.
Shanner & Miller
Sherman, Stewart L.
Wallace, Samuel C.
PASSAIC—Altieri, Michael A.
Anderson & Petterson
Baker, Garrett
Barker, Adrian
Berridge, Building Co.
Boon, Melndert, 164 Jackson
Brendel, John
Bush, Hubert, 90 Lincoln
Caucelosi, Calogero & Son
Coman, M. J., 30 Bloomfield av
Conant, Warren F.
De Vries, Daniel, 229 Hope av
Genco Bros. & Co.
Gottlieb, Louis
Hettelman, Harry A., 237 Snmmer
Holster & Martin
Jacobson, Wm.
Kanter, Abraham
Kantrowitz, Davidson & Co.
Kevitt, Edward N. Co.
Klapmutz & Co.
Mastenbrook, Ira
Maybury, Jas. & Son
Roosman Bros., Highland av
Skvarla, Jno.
Smith, Henry
Smith & Co.
Snoop Bros.
Swenson Bros. Building Co.
Totten, Albert, 16 Academy
Union Building & Cons. Co., 237 Main
Vander Vliet Construction Co.
Vander Vliet, Marinus
Woods, John
PATERSON—Adshead's Geo. Sons, 158 Van Houten
Atkinson, Jno., 194 17th av
Bailey, Wm. H., 128 Vreeland av
Becker, Chas., 200 Atlantic
Blauvelt, Augustus, 150 Governor
Bosland, Martin, 145 N 1st
Brandes, Lambert, 131 E 10th
Breen, Leonard Building Co., 45 Lowe
Clisco, Geo. W.
Condon, M. H. & Sons
DeRonde Bros., 21 Hopper
Dickinson, Andrew & Co., 82 Goodwin
Eelman, John, 850 Market
English, Samuel S.
Ferguson, Jno. W. Co., United Bank bldg
Fredericki, Antonio
Gardenier, Jno., 219 Water
Gery, Jno., 60 Montgomery
Gleek, Albert, 63 Garfield av
Globe, C. W., 73 Franklin
Gutherson, W. T., 103 Goodwin
Hamilton, Job
Hartley, Jno. S., ft of Van Houten
Henry, David Building Co., Main
Hoitsma, Peter, 257 E 23d
Hook & Tanis
Houman, John, 37 Clark
Jackson, Frank R.
Jackson, Geo., 1057 E 19th
Jacobus, Chas. G., 525 Totowa
Jersey, Theodore, 156 12th av
Kavanaugh, Edw. A., 53 Cortland
Kay, James E., 95 Haledon av
Keil, Jos., 261 Marshall
Kelliher, Hugh, 141 Martin
Knott, Jacob J., Sr., 219 Clinton
Kort, Martin, Jr.
Kramer, Philip
Lee, John R.
Lynch, Michael Construction Co.
McKiernan & Bergin, 1st National Bank
McLean, Alex.
Marley, Francis J.
Mersereau, Chas. H. Building Co. (Not Inc.)
Moshler, Stephen H., 94 Albion av
Murray, Francis P. & Son, 109 Bond
Pettit, Felix O.
Pittet, Felix G. Co.
Platt, Wm. L. Cons. Co., Norwood bldg
Prall, Leonard W., 3 Jane
Purdy, Benj., 258 Governor
Quackenbush, David E., 11 Crooks av
Quigley, Jno. J., 634 Main
Rhind, Building Co., 215 Paterson
Riley, Jos., 151 Van Houten
Ritchie, John J.
Rooney, Jos. J.
Sanford, Leonard
Schaub, August, 51 Goodwin
Schwarz, Henry Building Co., 336 Getty av
Sikkelec, Nau Building Co.
Smith, David F.
Stam, Peter, 146 N 7th
Stralt, Warren N., 130 Marion
Tanis, Nicholas, York av c Lafayette
Thompson, Stephen, 998 E 24th
Troost, Martin

Van Alstine, Alex. H.
Van Bulteu, Jno.
Van Den Bree, Arthur
Vanderbeck, J. R. Co. (Not Inc.)
Van Houten, Adrian G., 130 N Main
Van Houten, Wm. H. H.
Van Ness, Jas. S. & Son
Van Ostenbrede Bros., 278 6th av
Van Wyck & Klevit, 128 E Holsman
Veenstra, Conrad
Verdun, Abraham, 138 E Holsman
White, James
Zabriskee, Elmer E.
Zeliff, Daniel P.
PERTH AMBOY—Christensen, C. C.
Christensen, Fred. Construction Co.
Crouse, Ira R.
Dahl & Dressler Realty & Construction Co.
Dayton, S. & Son
Dimoud, Tube
Dinesen, M. J.
Donehue, John C.
Dressler, Lco
Graham & McKeon
Greisen, Hans
Hansen, Martin
Henderson Bros.
Hoagland, Abraham & Son
Jost, Gustave
Kaas, Peter A.
Kelliher, Hugh
Koyen, Emil
Koyen, Jens P.
Meagher & Smith
Mercer, Geo. W. Construction Co. (The)
Mouberg, Martin
Muudy, Chas. A.
Olsen, Soren C.
Ostergaard, Iver O.
Overgaard & Nelsen
Peterson, Peter
Seyler & Welker
Smith, Annus
Woglum, Jas. H.
PLAINFIELD—Abbott, John, 418 W Front
Apgar, Walter
Beck, Louis F. O.
Bird, Wm. D.
Brock, Construction Co.
Brokaw, Wm., 661 W Front
Burke, Thos.
Cain, Bryant R., 17 Grandview av, N P
Dawie, Jas P.
Doane, Chas. E.
Hartfelder, Geo.
Hulbert, Ira G., 1136 W Front
Kirch, Wm. H., 66 Duer, N P
Laury, Titus, II.
McInerney, F. T.
Manhattan, Jas. W.
Maunling, Jas O.
Milline, Alexander
Milline, John C.
Moore, Oscar A.
Mundy, Jno. W., 43 Summit av, N P
Nielsen, C. & Son
O'Keefe, Michael D.
Pangborn, Wm. H., 57 Chatham, N P
Ramshaw, John W. H.
Smith, Wm. C., 48 Grandview av, N P
Snyder, John H.
Specr, Jno. H. B.
Tallamy, B. F. & Bro.
Tallamy, Wm.
Van Arsdale, Richard B.
West, Ira. N.
Williams, Seaman
Wilsou, Chas. M., 206 W 6th
Wynan & Haberle
PLEASANTVILLE—Adams, Chas. S.
Adams, Winfield
Collins, Chas.
Cuff, Chas. H.
Lafferty & Turpin
Yates, James
PRINCETON—Gill, Jno. P.
McCarthy & Sons Co.
Stillwell, S. H.
Warren, Benj. R. & Sons
RAHWAY—Ayres, Frederick
Heath, Geo. W.
Muddell, David I.
Sherwood, Joseph & Bros.
Voorhies, David W.
Weldon, Contracting Co.
Wilke, John
RARITAN—Hickey, Philip A.
RED BANK—Bryan, Frank O.
Davis, O. E.
Earling, Johnson & Frake
Finkel, Frank
Gaunt, Samuel M.
Hercules Construction Co.
Matthews, Ambrose & Co.

Minugh, Elwood
Sewing, Geo. N.
Scott & Scott
RIDGEFIELD PARK—Johnson, Ferd.
Niehaus, August
Niehaus, Herman
RIDGEWOOD—Christopher, J. H. (Large)
Estes, Harry E.
Hubschmitt, A. T.
Phillips & Sons
Walthery, Henry F.
Zabriskie, P. L.
RIVERSIDE—Arndt, Geo.
Scheley, Geo. L.
RUTHERFORD—Ahrens, Claus & Co.
Brower, Henry & Son
Colonial Construction Co.
Ellis, Chas. B., Jr.
Gunter, Franz
Hackett, Augustus T.
Rusk, Hugh R.
Van Roden, Frank
Winkel, Wm.
SALEM—Bell, Jos. (Planing Mill)
Brandiff, Robt. A.
SOMERVILLE—Barras & Smith
Connors, Wm. & Son
Cramer, Chas.
Dalley, Wm.
Gunzelman, Fred.
Hardgrove, Wm. (Large)
SOUTH AMBOY—Munday, Furman W.
Munday, Oscar M.
SOUTH ORANGE—Barrett, Jno.
Becker, Henry & Son
Gascoyne & Odell
Halsey, I. Whitney
Palmer, Ludwig
Reeve, Wm. W.
Shiels, Archibald
Van Iderstine & Odell, 11 1st
Whitthun, Jno. H.
Young, Peter Y.
SUMMIT—Cain, Isaac S.
Campbell, G. W.
Chandler, A. B.
Coffee, Thos. J.
Fagnani, A.
Glichrst, David D.
Helus, E. W. & Co.
Jilson & Faulkenberg
Lum & Shipman
Nelson, Frank A.
Owens, James G.
Perfect Construction Co.
Post, Wm. S.
Reeve, W. A. G.
Smith, Wm. H.
TOMS RIVER—Harris, A. Judson
TOWN OF UNION—(P. O. Wheehawken)
De Riso & Rena
Walker, Wm.
TRENTON—Barlow, J., 130 W Hanover
Benson, G. E., 220 Butler
Bugbee, Newton A. K. & Co.
Case, A. J., 249 Jackson
Clayton, I. H., 264 Bellevue av
Cubberly, Daniel I.
Deckner, Stephen
Donegan, Thos. F.
Donnelly & Welsh
Drafter & Cotter, 5 2d
Dugan, Daniel A.
Egan, Jas.
Freedman, Louis
Lanning, J. W. (Large), 314 N Broad
Lawton, Lewis & Son, Broad St. Bank bldg
McGovern, W. F.
Martin, Jos., 220 N Warren
Mather, S. W., 30 S. Clinton av
Michalis, John T. & Geo. B.
Mordaunt, John E.
Morgan & Gibbs
Morris, W. J. & J. H., Broad St. Bank bldg
Newton, Richard
Reeger, Edward, Broad & Jay
Rickey, Swann Co.
Roebing Construction Co.
Schaefer, Wm.
Trier, Jos.
Voorhees, Ashley O., 592 Brunswick av
Walling, C. H.
VERONA—Jacobus & Farrand
VINELAND—Allen, William E.
Dawson, Walter
Deyo, Daniel J.
Fouik, Walter L.
Nutt, Philip
Pasquale, Jas.
Turner, John
WASHINGTON—Deremcr, James P. & Sons
Lance, Archie
WEEHAWKEN—Cavanagh & Hegney
Roman, Otto E.
Weehawken Contracting Co.

WESTFIELD—Baker, Frank R.

Cash, John H.
Clark, Aaron B.
Frazee, Jno. H.
French, Chas. H.
Goltra, John Q.
Howarth, Wm. F.
Jlmerson, W. S.
Ledley, John
Moffatt, James
Moffett, Joel
Stiles, A. W.
Wilcox & Pope
Winters, S. D.

WEST HOBOKEN—Adrianec, Franklin

Bone, Herbert
Bove, Hubert
Capone & Frost
De Risso Bros.
Dopsloff, Gustave
Ermeti, Achille
Murphy, Joseph
Schall & Schrelber, 21 Browning pl, N B
Schneider, Henry M., 713 De Mot
Summit Contracting Co.
Tortora, Antonia
Waldrons, H. F. & Co.

WEST LONG BRANCH—(See Long Branch)**WEST NEW YORK**—Gerish, John C.**WEST ORANGE**—Banister, De Witt

Damato, A.
Dobbinson, Lawrence, Whittlesey nr Chestnut
Dodd, Geo. S.
Drummond, Thos.
Flemming Bros., 10 Watchung av
Hansen, John C. & Son, 10 Joyce
Hay, Wm. A.
Hays, Frank B., 15 Whittlesey
Kocher, Chas. E.
Mele & Bruno
O'Connor, F. & A.
O'Rourke, John
Vogel, Adolph
Wolf-Jilson-Douglas Co.

WOODBIDGE—Coddington, Jonas

Lee, F. Randolph
McEwen, Jos.

Treen, John, Jr.

WOODBURY—Allen, Thompson

Best, Joseph B.
Henry, Albert (Brick)
Henry, Edw. P.

NEW MEXICO.**ALBUQUERQUE**—Anson, A. W. (Large)

Strong, W. W.

EAST LAS VEGAS—Sundt, M. M.**FORT BAYARD**—Harlan, J. A.**SILVER CITY**—Black & Atkins

Manville Bros.

NEW YORK.**ALBANY**—Bell, Thos, 216 N Pearl

Bermel, Peter, 797 Madison av
Burdick, G. D., 344 Hudson av
Carr, Stephen A. & Son, 346 Hudson av
Cassidy & Gallagher, 68 Park av
Coleman, Patrick K. & Son, 15 Warren
Collus Bros., Beusen bldg
Cook, Asbury, 197 Elk
De Tlere, F. J., 76 Grand
Dollar, Frederick J.
Dyer, Jno., Jr., Albany Co. Bank bldg
Fahrenkopf & Ruefle, 120 Franklin
Feeney & Sheehan (Large), 160 Montgomery
Filkins, Chas. E., Capitol
Finkle, C. J. & Son
Finn, J. J. & Son 75 N Boulevard
Gander, Anton, 14 Osborne
Glick & Sayles, 264 Hudson av
Hahu, Chas. L.
Havens, Elmer H. Bldg. Co., 92 Madison
Keeler, Peter Bldg Co. (Large), 464 Orange
Keeshan, Dennis J., 117½ Elk
Lebus Building Co., 7 Triluty pl
McCaffrey & Hughes, 797 Livingston av
McCann, Patrick, Dove c Sheridan
Maas, Jno. J., 236 Sherman
Menges, Henry, 562 Clulton av
Nicol, Wm. C., 97 Second
Nolan, Jas. C., 357 Orange
Pattinson, Jas. W., 269 2d
Reilly, Wm. F., 52 S Hawk
Rossner & Son, 284 Madison av
Ryder, M. L. Building Co., 356 State
Schneider, Jos. M., 163 Madison av
Sewell, R. P. & Son, 37 Morris
Smith, Philip H., 317 Lark
Smith, A. E. Co.
Stephens, Thos. & Sons, 275 Lark
Waldbillig, Frank, 425 1st
Waldbillig, John B., 425 1st

White, Jas. H., 171 Myrtle av
Wickham, Richard, Jr., 25 2d
Young, Henry, 393 Hamilton

AMITYVILLE—Ketcham, Milford H.**AMSTERDAM**—Clemens, Chas., Caroline c Division

Cavey, Wm.
Dessau, F. W.
Doty, C. E.
Fick, C. E.
Grieme, Hy. W., 39 Bridge
Jones, John B.
Kane, Thos. F.
Lasher, J. D.
McNeil Mfg. Co. (Not Inc.)
Machold, C. B.
Madden, Dennis
Mallia, John
Mohawk Contracting Co.
Reed, H. L.
Rogers, H. C.
Slater, Geo. F.
Sweet, Garrett E.
Terwilliger, Geo. P.
Turner, Jno. J., 53 Union
Wright, Geo.

AUBURN—Barnes, W. B. & Co.

Cayuga Contracting Co.
Koon, E. B. & H. J.

BABYLON—Burton, Chas. W.

Howell, Elmer W. (Large)
Kellum, Henry J.
Ketchum, W. A.
Rogers & Blydenburg
Van Weelden, H.

BATAVIA—Buckholtz, John & Son

Cummings, J. C.
Dellinger, E. J.
Ditzel, Philip
Glade, Jno. (Large)
Homelius, H. W.
Howard, M. M.
Klug, Asa
Manulng, John (Plasterer)
Pickert, Jno.
Savacool Bros.
Schafer & Lochlicht (Brick & Stone)
Uphill, J. L.
Wade & Uphill
Waterman, A. J.

BATH—Clough & McChesney**BAY SHORE**—Farley, Thos.

Hein, Jos.

Jones, W. R.

Kirkup, Chas. E.

BINGHAMTON—Badgley, A. E.

Balcom, Geo. N.
Binghamton Construction Co.
Carman, A. B.
Carrington, S. H. Co.
Ford, M. I.
Mitchell & White
Moffatt Bros. (Large), 22 Lewis
Moore, R. H.
Nearling, J. B.
Newing, Wm. J., 62 Walnut
O'Neil, Jas.
Owens, M. A.
Shirley & Slmpson
Wheeler, G. B.

BROCKPORT—Cleveland, M. A. (Large)

Heinrich & Vineyard

BROOKLYN—(See New York City, Borough of Brooklyn)**BUFFALO**—Adams, R. O., 67 Preston

Albrecht, John, 167 Grace
Alderman, Fred., 213 W Utica
Allespach, Michael, 82 Northampton
Allison, J. F., 50 Plymouth av
Anderson, Hans J.
Arend, Henry
Baker & Fisher
Barnum, Chas. O.
Barnwell, C. P., 398 14th
Barrows, Chas. P., 81 Lafayette av
Batt, Chas. A., 38 Northampton
Battel, Thom. F.
Baxter, John W., 291 15th
Baynes, Henry T., 17 Riverside av
Beaser, Andrew B., 72 Sanford
Beck, Frederick F., 585 Forest av
Bellance, Joseph, 22 Morgan
Bender, Daniel, 17 Bender pl
Beuner, Wm., 395 Pratt
Bernhard, John C., 283 Leroy av
Bernhard, Philip, 145 St. Louis av
Berreck's, Chas. Sons (General), 1151 Main
Bettendorf, Wm., 191 Glenwood av
Bieber, Henry H., 528 Walden av
Bingel, Conrad, Jr., 618 Oak
Black, Wm., 18 Maynard
Blacklock, J. G., 977 Grant
Boehme, Frederick, 250 Woltz av
Booth, A., 13 Bremen
Boseck, Otto M.

Bournique, A. F., 994 Fillmore av

Bowers, E. J., 23 Copeland pl

Bowers, John

Brady, John J.

Branch, John

Branch, Peter

Braun, Chas., 339 Mills

Breidenstein Bros., 84 Edson av

Bremer, Frank, 107 Vanderbilt

Brown, A. B., 319 Normal av

Brown, Thos. Contracting Co., 1135 Niagara

Brown, Wm. W., 1183 Seneca

Brown & Voelker

Burke, M. J., Prudential bldg

Burke, Wm. H. & Bro., 696 Ellicott sq

Caldwell, Robert W., 25 Park Ridge av

Carter, Geo. W. & Sons' Co., 25 Builders' Exchange

Chabot, Frederick G., 272 Glenwood

Chadeayne, Geo. H., 217 Mutual Life bldg

Chase, Jas. W.

Chilcott, Walter, 711 S Park

Christensen, Andrew, 40 Littell av

Christensen, John L., 11 Olsen

Churchyard, Jos. J. (Also Planing Mill), 648 Clinton

Cieslinski, Stanislaus, 175 Sobleski

Claxton, A. H., 17 Glenwood

Coatsworth, W. F., 79 Milton

Cralne, J. A. & Co., 251 W Ferry

Craine, Robert C.

Crocoll, Chas. F., 721 Hopkins

Cutler, W. E., 150 Lancaster av

Czaplicki, Frank, 15 Titus av

Dark & Co., 654 Main

Duchscherer, Philip, 340 Massachusetts av

Feist, Jno. & Sons (Also Planing Mill), 115 Ash

Flierl, Christian, 1356 Genessee

Forback, Christian, 204 French

Frank, Chas.

Frank, Geo. E., Builders' Exchange

Dawson, W. H., 398 Baynes

Dean, Geo.

Deau, Henry, 1518 Fillmore av

De Freis, John, 476 High

Dembinski, Frank

Dietrich, Rudolph

Dill, Wm. H., 116 Southampton

Dobbins, Jas. M., 63 Thoma

Donaldson, Geo. S., 24 Norwood av

Dorer, Henry C., 89 Southampton

Drake, W. S.

Drescher, Chas. A. & Co., 510 Glenwood

Dunn, Emanuel, 462 Humboldt parkway

Dwyer, J. W. & Son, 875 Ellicott sq

Eberhardt, John H., 284 Potomac av

Eddy, D. N., 336 Goodyear av

Ehrmann, C. J.

Elnach, E. D.

Ellenwood, Jas. D., 337 Ellicott sq

Elllott, Geo. F., 136 Dearborn

Engler, August, 184 Landon

Erckert, Albert A., 986 Fillmore av

Erie Construction Co.

Everitt, Chas. H., 295 Auburn av

Ewald, Michael

Eyre-Shomaker Co.

Farr, Henry L.

Farthing, Geo., 12 Maynard

Fatta Bros., 115 Front av

Ferris, Wm. M.

Fillinger, John J., 54 A

Fisher & Franklin

Fite, Romain, Tryon pl

Fitzgerald, Wm. S., 313 Front av

Frey, Geo., 231 Gilder

Friedman, F. J. & Son, 38 Fox

Fromwiller, Geo., 56 Hartman pl

Froucekowlak, Anton

Fultou, Wm. F.

Galbo, M., 178 Front

Garvey, Fred. H., 8 Burch av

Gangnagel, Jacob A.

Gangnagel & Froelich

Gelger, John, 481 7th

Gibbons, J. G. & C. L., 1069 Niagara

Gibbs, J. W., D. S. Morgan bldg

Glegle, Louis A., 260 Adams

Gles, Edward, 429 Dearborn

Glpp, Louis H., Cons. Co., 531 Ellicott sq

Gould, C. B., 458 N Ogden

Graesser, Herman C., 649 Eagle

Grain Storage Cons. Co., Mutual Life bldg

Grant, Thomas, 356 Rhode Island

Great Lake Cons. Co., 1117 Chamber of Commerce

Grefe, Wm., 22 Pomona pl

Grenzebach, John E., 75 Edson

Griefcstein, John H., 61 Lemon

Grimm Bros.

Gruner, H. A., 52 Eaton

Grupp, Edward & Son, 51 Riley

Habicht & Zimmer

Haest, E. R., 1705 Main

Hagelberger, Henry J.
 Hager, Edw. M. & Sons Co. (Also Planing Mill, 141 Elm
 Hall, Thom. R., 446 De Witt
 Halliday, James H., 18 Chester
 Halliday, R. D., 585 E Ferry
 Hankin, Robert F., 228 Riley
 Hann, Louis F., 562 Best
 Hanssel, F. G.
 Harbrecht, Louis, 368 Connecticut
 Hamm, Adam, 1228 Genesee
 Harder, Henry, 287 Northampton
 Harriman, Benj., 90 Chenango
 Harryman, E. B., 315 Brisbane bldg
 Hartman & Noblet
 Harty, Jno. P. Sons, 344 Niagara
 Hasselbeck, Jacob, 971 Walden av
 Haneck, Geo.
 Heckadon, Samuel, 52 Tryon pl
 Hecker, Henry, 206 Dearborn
 Heiss, Christian, 1872 Clinton
 Helbling, John Geo., 53 Pratt
 Held, Alexander, 594 Sycamore
 Helffenstein, Geo. J., 75 E Parade av
 Henderson, Alex., 41 W Huron av
 Heinrich's, Wm. Sons, 193 Spring
 Hermann, Frank L., 255 Riley
 Hepper, Christian, 286 Fillmore av
 Hibbard, F. W., 316 N Division
 Hicks, Geo. W., 1 Kellogg
 Highham, Berner Construction Co.
 Hoag, Jas., 916 Fillmore av
 Hoeck, J. G., 426 High
 Hoelscher, Theo., 25 Morton pl
 Hoffmeyer Bros., 308 Dearborn
 Horton, D. E., Cons. Co., 50 Exchange
 Houlzhousen, Peter, 1019 Lovejoy
 Huber, John J., 750 Elmwood
 Hudson, C. G.
 Hudson, Matthew J., 131 De Witt
 Hughes, Geo. M., 211 E Utica
 Hurley, Wm. & Co., 426 Marilla
 Ignatz, Geo., 123 Fox
 Ireland, Gilbert, 210 Ashland
 Irwin, W. M., 136 Chenango
 Jakiel, J. M.
 Jennings, W. S.
 Jepson, Mason & Co., Erie Co. Bank bldg
 Jochin, Peter, 220 Johnson
 Johengen & Walters
 Johnson, J. P., 85 Lilac
 Jones & Carr, 136 Delaware av
 Karcher, Henry J.
 Karl, John, 26 Durrenberger pl
 Kempf's, Geo. Sons, 99 Locust
 Kimble, Thom. J.
 King & Kurtz
 Kirchgasser, John, 245 Watson
 Klagdier & Durn
 Klans, Chas., 200 Box av
 Klein, Jacob, 170 Lafayette av
 Klopp, Jno. F., 477 Norwood
 Kobel, Geo., 1325 Genesee
 Koch, Wm. C., 325 Benzinger
 Koch, Wm. F., 19 Davey
 Kopperman & Hall, 866 Lafayette av
 Kramer, Peter, 120 Walden av
 Kruger, Max, 33 Sherman
 Kreuder, Conrad
 Krenger, C., 116 Davey
 Kuhn, A. C. F., 50 Edna pl
 Kurth, Chas. L., 495 Northampton
 Laby, Peter J.
 Labinski, Joseph, 218 Cable
 Lacroix, Julius, 42 Pleasant pl
 Ladowska, August, 238 Rother av
 Lamb, Albert F.
 Lanctot, H. H. & Sons, 303 Ellicott sq
 Lang, Oscar S., 174 Norwalk av
 Lannen, Jno., 667 Oak
 Lauffer, Geo.
 Leary, Jeremiah, 257 Walden av
 Leggett, Wm. A., 52 West av
 Lehman, Edwin W., 516 Woodlawn av
 Leman, Geo. D., 103 Rodney av
 Lennon, John, Son & Co., 370 Prospect av
 Lenz, Frederick, 145 Moselle
 Lenz, H. & Son, 802 Genesee
 Lenz, Jno. A., 355 French
 Leseman, Robert
 Lescher, Albert, 267 Barnard
 Leverance, Andrew, 137 Lafayette av
 Liedy & Botsford
 Little, Alfred, 42 Carlyle av
 Little & Metzger, 2180 Seneca
 Love, Thos. J.
 Luedeman, Fred., 510 High
 Lutzmann, Chas. E.
 McCormack, Wm. V., 1840 Clinton
 McDermott, Patrick Wm., 263 Breckenridge
 McDonnell & Sons, 858 Main
 McLeod, D. L.
 Magner, Edmund L., 998 Ellicott sq
 Mahley, C. J., 333 S Division

Mahoney, D. J., 348 Winslow av
 Maltby, Geo. W. & Son, 21 Maryland
 Martin, John & Son, 166 Adams
 Marzahn, W. F., 38 Triangle pl
 Mathewson & Parsons, Law Exchange
 Maurer, Chas.
 Menges, Wm., 2335 Genesee
 Menth, G., 31 Walden av
 Metz Bros., 334 Landon
 Metz, Joseph & Sons (Also Planing Mill).
 Metz, Wm. F., 146 Sherman 292 Elm
 Metzler, Fred., 227 Ludington
 Miller, Edward R., 496 Northampton
 Miller, Ernest F., 236 S Hampton
 Miller, Fred. C., 287 East
 Moeller, Edward H., 375 Pearl
 Morley, Wm. H.
 Morningstar, Geo., 2095 Niagara
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 Nagel, Chas. J., 225 E North
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 Neumann, Joseph, 675 Riley
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 Peacock, Wm. W.
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 Petit, Frank A., 59 Alexander pl
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 Powers, Walter, 125 Greene
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 Ranney, Geo. F., 2554 Main
 Rappich & Culliton, 2293 Main
 Rassler, Hugo, 9 Frederick pl
 Ranth, John, 177 Barthel
 Reardon & Weyand, 2163 Seneca
 Reece, Henry J., 1251 West av
 Rehler, Frank H., 431 Humboldt Parkway
 Reinhart, John J., 1971 Clinton
 Reimann, Benj., 8 Eagle
 Reward Development Co.
 Reynolds, F. T., 525 Prospect av
 Rickert, Jacob B., 30 Villa av
 Rieman, Mrs. Catherine
 Richhardt, Frederick
 Rieman, Geo. H., 215 Clinton
 Riemer, Adolph, 885 Clinton
 Riemer, Otto
 Ringer, Chas. V., 107 Edna pl
 Roberts, P.
 Roebeling Cons. Co., 96 Erie Co. Bank bldg
 Rollins, Geo. L., 71 Zittel av
 Roos, Edward H., 636 Linwood av
 Rosenkranz, Philip J. P., 18 Sweeney
 Rossler, Hugo
 Rossow, C. H., 1277 Fillmore av
 Rost, Victor, 32 Wohlers
 Roth, August, 414 Dearborn
 Ruby, Frederick A., 48 Lisbon av
 Ruszkiewicz, Frank, 1293 B'way
 Ryan, M. W. Cons. Co.
 Saltarelli, Thos., 359 Norfolk av
 Sandell, Wm. C., 608 Linwood av
 Sanitary Building Co.
 Sapi, A. & Son
 Schaaf, Geo., 547 E Utica
 Schaefer's, H. Sons (Large), 578 Elm
 Schall, Emil, 1535 Genesee
 Schlender, Geo. F., 2146 Bailey av
 Schmeh, Anthony, 87 Briggs av
 Schmidt, Wm., 98 Rocher
 Schmidt & Davis
 Schultz, Geo. S., 352 Glenwood av
 Schultz, Robert & Son, 37 Sweeney
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 Shamo, Joseph, 38 Essex
 Shepard, Jas.
 Sherman, Frank G.
 Sherrell Contracting Co.
 Siebert, Conrad, 380 Doat
 Siener, Geo. A., 76 Thompson
 Simon, Geo. H., 123 Laurel
 Slater, Wm. L.
 Slattery, Jas. W., 453 Pearl
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 Smith, Philip
 Sorgi & Vannini

Spang, Joseph, 535 Madison
 Spring, Geo. A., 840 Richmond av
 Stabeman, Anthony, 300 Lovejoy
 Stage, F. N., 1016 Lafayette av
 Steinmiller, Geo., 46 W Balcom
 Stesel, Henry
 Stewart & Lyall
 Stokes' Bros., Brisbane bldg
 Strach, Fred. C.
 Suchocke, Frank M., 39 Empire
 Swanson, P. L.
 Sweeney, Eugene, 580 Eagle
 Sweet, Frank, 540 Glenwood av
 Taylor, Geo. H., 228 Chester
 Thiedt, Wm., 32 Bardol
 Thomas, John W., 15 Duerstein av
 Thomas, Richard, 297 Howard
 Tilden, J. H. Co., 12 Henry
 Traber, Adam
 Tremaine, Wm. J.
 Truxes, Jacob, 367 Rhode Island
 United Building & Wrecking Co.
 Usehold, Wm. J., 437 Madison
 Van Every, S. M., 584 West av
 Vogt, Bergner & Co. (Inc.)
 Wagner, Peter
 Wahl, Ernest A., 14 Fox
 Waite, Geo. C.
 Walker, Wm. A.
 Warren, John J., 123 Vermont
 Waszewski, Isadore, 475 Sweet av
 Waters, Albert S., 307 Brisbane bldg
 Watson, John C., 359 Clinton
 Wegener, Louis H.
 Weis, Albert H., 547 Riley
 Wheat, Ernest, 454 Blvd av
 White, Arthur E., 54 Tracy
 Whitelock, Isaac, 304 14th
 Wierzbowski, W. J.
 Wilhelm, Simon, 1468 Genesee
 Wilkes, Oliver C., 42 Tryon pl
 Willett, Lincoln A., 394 Baynes
 Williams, W. M., 142 Genesee
 Wilson, C. E., 13 Lester
 Wilson, John E., 884 Walden av
 Wisniewski, Louis, 28 Swinburne
 Wittig, A. P. & Son
 Wittlef, Wm.
 Wood, James
 Woodhouse, Joseph, 282 Baynes
 Yokom, E. O.
 Young, John, 172 Tryon pl
 Young, Robert, 34 Carline pl
 Youngman, C. R., 50 West av
 Ziegler, Andrew & Son, 164 Edward
 CANANDAIGUA—Barrett, J. A. & Son
 Brown, Wm. J.
 Elton, E.
 Hogan, R.
 Rouse, Geo. A.
 Saunders, D. N.
 Smith, Hugh M.
 CASTILE—Ellisac Mfg. Co.
 CASTLETON CORNERS—(See New York City, Borough of Richmond)
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 Davison, Oliver S.
 Smith, E. & Son
 Vandewater, D.
 CLIFTON—(See New York City, Borough of Richmond)
 COBLESKILL—Karker, H. D. & Co.
 Murphy, W. H.
 COHOES—Archibald, Andrew, Amity nr Colum-
 Auringer, Isaac M. bla
 Reavey, Thos. A.
 Buchanan, Wm. D., 29 Imperial av
 Clement, Ernest N.
 Dooley, Jas. J., 65 White
 Goddard, Aaron
 Molleur, Israel
 Neary Bros. Construction Co.
 Sarrault, Alfred
 COLLEGE POINT—(See New York City, Borough of Queens)
 COOPERSTOWN—Houck, Lafayette
 Smith, John C.
 CORINTH—Young, Floyd
 Thomas, E. K.
 CORNING—Benger, Jno., 11 Montague av
 Bradley, J. C.
 Corning Building Co.
 Ferenbaugh, U. G.
 Warner, E. N. & Son
 Drehmer, H. J.
 Rimmer, D. M.
 CORNWALL LANDING—Taft-Howell Co. (Large)
 CORONA—(See New York City, Borough of Queens)
 CORTLAND—Beers & Warfield
 DELHI—Hume, R. H.
 DEPOSIT—Brokaw & Howell
 Phillips, J. H.
 DORIS FERRY—Ackerman, Alonzo
 Alworth, Wm.

Creedon, Michael
 Hasbrouck, Garrett R.
 Lester & Cummings
 Nichols Cons. Co.
 Young, Arthur
DUNKIRK—Aldrich, B. F., 425 Swan
 Camello, F.
 Dunkirk, Mason Contracting Co. (Not Inc.)
 Hubbard, Jas.
 Meister Contracting Co.
 Richardson, E. T.
 Taylor, J. A.
 Thompson, L. E.
 Union Builders' Co-Operative Cont. Co.
ELMHURST—(See New York City, Borough of Queens)
ELMIRA—Allington, Jacob & Son (Large) Railroad av c 7th
 Elmira Building Co., Robinson bldg
 Evans, E. F., 367 Wallace av
 Hathaway, Wm. W., 370 Fulton
 McConnell, Chas. E.
 McGreevy, McGnigan & Baum Cons. Co.
 Mnrry, Patrick
 Thurston & Haskell, 363 State
 Williamson, J. C., 55 Sly
ELMIRA HEIGHTS—Buckley & Garine
 Jackson & McKay
EVERGREEN—(See New York City, Borough of Queens)
FISHKILL ON THE HUDSON—Jones, Amos
 Murray, James A.
FLUSHING—(See New York City, Borough of Queens)
FORT EDWARD—Clum, B. Ray
 Sanderspree, C. W.
FREDONIA—Luke, John F.
 Schultz & Goggin
 Sly & Coddington
GENEVA—Baker, Chas. W.
 Crego & Brewer
 Finn, Jas. E.
 Benjamin, C. K.
 Frantz, Wm.
 Gaylord, Silas
 Mulcahy, Patrick H.
 Nagel, Samuel
 Persons, S. F. & Co.
 Schmiel, R. R.
GLEN COVE—Burns, D. E.
 Lawson, W. I.
 Pine, F. A.
 Underhill, E. M.
GLENS FALLS—Alexander & Pepper
 Finch-Anderson Co.
 Gifford, Williams & Co.
 McAuley, Frank W.
 Potter, E. B.
 Reilly & Acker
 Shippey, F. P., 61 Uncas
GLOVERSVILLE—Boorman, John J., Jr.
 Brace, A. E., 10 Temple
 Brott, H. R. (Large)
 Duell, Asa E.
 Dye, John K.
 Dye, Walter F.
 Finkle, W. T. & J. J.
 Handy, Webster, 16 High
 Hays, De Witt A.
 Hemstreet, J. E., 335 Hamilton
 Henry, A. L., 10 Hamilton
 Lair, John M.
 Rumrill, Theron E.
 Wager, Merritt C.
 Waltamath, C. R.
 Young, Abram
GRANVILLE—Norton, Alonzo
GREAT KILLS—(See New York City, Borough of Richmond)
GREENPOINT—Albertson Cons. Co.
 Fanning, Gilbert & Son
 Hawkins, S. A.
 Monsell, Isaac A. & Son
 Moore, Parker P.
 Wells & Butler
HEMPSTEAD—Ansell, Wm. C.
 Coles, E. J.
 Duryea, Benj.
 Patterson, A. G.
 Smith, Moses R.
 Smith, E. P., Fulton
HERKIMER—Beckwith-Clinton Engineering & Contracting Co.
HIGHLAND FALLS—Dornberger & Darcy
 Graber, Leo
 Muller Bros. (Large)
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HOOSICK FALLS—Bootman, J. & Son

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 Miller & Gray
 Roberts, H. E.
 Spink, Wm. H.
 Tacker, Seth L.
 Wing, John H.
HUDSON—Brennen, Thos.
 Cramer, Chas. C., 101 N 5th
 Cruise, Thos.
 Fitzgerald, John
 Hester, Dennis
 Van de Carr, Arthur, Jr., 323 Union
 Weaver, Leander H., 518 Union
HUNTINGTON—Bnnee & Holmes
 Conklin, M. B.
 Gallienne, Frederick
 Ireland, David S.
 Wausser & Lewis
 Zoeller, Frank
INWOOD—Merritt & Safford
IRVINGTON—Behrens, rt.
 Buckhont, Sylvester
 Gory, Thos.
 Huuter, Alex. M. & Son
 Hnston, Bernard
 Kiernan, Michael
 Lord & Burnham Co.
 Murphy, Thom.
ITHACA—McGreevy Const. Co.
ISLIP—Hobbs, A. D.
 Raynor, Willis P.
 Velsor, W. S.
 Wright, F. S.
 Driscoll Bros. & Co., S Aurora
 Ithaca Contracting Co.
 Sprigg, Edward
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JAMESTOWN—Ackroyd, Asa
 Anderson, A. Frank
 Corrigan, A. J.
 Haas, Chas. (Brick)
 Johnson & Prather
 Lawson, Andrew J.
 Lawson, Jno.
 Lindbeck, Chas.
 Mahoney, John
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 Morse, C. E., 109 Winsor
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 Rogerson, D. M., 41 College
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 Washburn, Hiram
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 Howarth, G. H. & Son
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 Seaman, Jas., 303 S Perry
 Simmons, P. M., 18 S Market
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KINGSTON—Costello, Wm. D., 237 W Chestnut
 Darling Bros.
 Dederick, A. E.
 Green, W. S., 150 Fair
 Gronemeyer, Frank, Sr., Mary's av
 Hndler, John H.
 Hunt Bros.
 McCullough, Wm., 270 W Chestnut
 McNamee & Rice
 Mutterstock, Albert, 109 B'way
 Osterhondt, Peter C., 48 Clinton av
 Powley, J. L. Const. Co. (Not Inc.)
 Rhymor, Geo. E.
 Weeks & Sylvester
LANCASTER—Adolf, Joseph
 Bame, F. W.
 Earle, H. W.
 Safford, Henry A.
LAUREL HILL—(See New York City, Borough of Queens)
LE ROY—Sherman, E.
LESTERSHIRE—Decker, F. H.
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 Dale's, Thos. Sons
 Eagan, Chas.
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 Fogle, Jno. C.
 Huston, Wm. E., Lincoln bldg
 Lardner, Martin
 Lentz, B. F.
 McDonough, Martin J.
 Mangold, John
 Markley, Thomas P., 91 Mulberry
 Miland, Patrick F.
 Moon, John
 Nottleman, Wm. H., 567 Walnut
 O'Brien, Andrew M., 339 East av
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 Sherman, Edw. W.
 Stainthorpe, C. N. & Co., 126 Main
 Wille, L. C., 421 Washburn
LONG ISLAND CITY—(See New York City, Borough of Queens)
LOWVILLE—Wisner, Chas. & Son
MALONE—Murtogh, P. J.

MAMARONECK—Burger, George
 Coles, S. E.
 Krewett, J. F.
 Reardou, Michael
 Sands, Merritt
 Spader, Peter H.
MARINER HARBOR—(See New York City, Borough of Richmond)
MATTEWAN—Forrestal, James
METROPOLITAN—(See New York City, Borough of Queens)
MIDDLETOWN—Bates, C. M.
 Black, G. H., 5 Bonnell
 Donnelly, John
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 Lovely, John A.
 McWilliams, Edwin
 Miller, Peter F., 38 Honston
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MIDDLE VILLAGE—(See New York City, Borough of Queens)
MILLERTON—Bees & Trafford (Large)
MOUNT VERNON—Borgwald, Fred'k, 31 Pearl
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 Bradley, Geo. G.
 Coyle Bros.
 Durr, Sebastian, 318 Locnst
 Evans, S. T., 118 Park av
 Flick, J. H. Cons. Co., 57 S 4th av
 Haag, J., 11 W Sidney av
 Harris, G. W., 47 Union la
 Jenks & Plume
 Kain, James
 Kolpin, Chris., 229 N 7th av
 McCaffrey, Jas. Co.
 McCarten, A. J., 246 E Sidney av
 Malligan Co.
 Moebus, Wm., 261 W Lincoln av
 Mottola, Chas.
 Nordone, Frank, 232 S 7th av
 Petrillo, Bros.
 Piro, James, 36 N 4th av
 Reehl Bros.
 Reid, Jas. M., 202 E 3d
 Robinson, Harry J., 149 N 4th av
 Robinson, W. J., 341 S 4th av
 Sergeant, Wm. H., 139 Franklin av
 Stolte Bros., 324 N 7th av
 Ulteht, Albert A., 255 S Columbus av
 Vernon Contracting & Cons. Co., S Clare-
 Weldon, Geo., 141 Franklin av mont pl
NEWARK—Nolan, Wm. H.
 Plighter, Wm.
 Schattner, John S.
 Van Buren, Chas W.
NEW BRIGHTON—(See New York City, Borough of Richmond)
NEWBURGH—Barclay, Robert
 Burhans, L. & I. L., 62 Mill
 Burton, Wm. H., 266 Water
 Convery's, J. P. Sons, 134 Washington
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 Harrington, Jos. B., 416 1st
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NEW ROCHELLE—Anzolut, August, Lock-
 Bantel, M. 9 5th av wood av
 Bartuett, Michael, Old Boston rd
 Booker, Marshall O., 6 Prospect
 Dassler, S. W., 21 Walnut
 Doherty, Michael, Old Boston rd
 Doyle, John, 14 Walnut
 Eckstein, Gustave, Sycamore pk
 Ensinger, Louis V., New Rochelle Heights
 Gahan, Jas. P., Hazelhurst pk
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 McCabe, John
 Mahlstedt, Geo. W., North av
 Murphy, Patrick H. & Son
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 Reid, Thos. J. & Co., 230 Huguenot
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 Robinson, Chas. T., 85 Centre av
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 Watson, Geo., Beauchamp
 Wilson, S. B.

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 Anderson's, Jno. D. Sons, 950a Green av
 Aner, John & Sons, 640 Lexington av
 Armendniger, M. & Son, 1153 Myrtle av
 Ashfield, F. J. (Large), 350 Fulton
 Auer, Wm., 730 Willoughby av
 Barndio, Jos., 177 Jefferson
 Bauer, Emil C., 6 Stanhope
 Beach, George, 86 Logan
 Bell, Wm. & Son, 3d av c 93d
 Bonert, Louis, 487 4th
 Borough Construction Co., 44 Court
 Bracken, McAvaney Co., 44 Court
 Briley, Arthur, 549 Macon
 Brown, Henry J. & Son, 1534 Fulton
 Brown, Rufus H., 1357 Rogers av
 Brown, W. A. A. (Large), 738 Flatbush av
 Byrne, John, 530 Dean
 Calder, Wm. M., Windsor pl
 Carlin, F. W. Cons. Co., 307 Washington
 Carlin, Thos. G., 215 Montague Parkway
 Carlson Bros., 369 Flatbush av
 Cashman, Jno. J., 44 Court
 Caulfield, Jas. A. (Large), 469 Marion
 Chapman & Ryan, 35 Lincoln pl
 Chatterton, Jas. M., 472 Myrtle av
 Church & Gough, Knickerbocker av c Hancock
 Cieslinski, A. J., 230 E 9th
 Clarke & Stowe, 221 Greenpoint av
 Cleary, Peter (Large), 235 Bainbridge
 Cook, D., 71 Van Siclen av
 Corbin, Jno. R. & Co., Foster av & Brighton
 Cranford Co. (The), 52 9th Beach R. R.
 Cranford, Chas. Foster av c 16th
 Cranford & McNamee (Inc.), 190 Montague
 Cronin, Barth S., 573 Clinton
 Dady, Michael J. C., 350 Fulton
 Deighan, James, 141 Tilden av
 Detlefsen, Charles M., 6 Sullivan
 Diamond, Bernard, 18 Bergen
 Dickson, Robert, 208 S Oxford
 Doenecke, Christian J., 216 Washington av
 Doherty, John H. & Bro., 16 Court
 Donlon, Thos. C., 294 Butler
 Draper, Hy. C., 247 Bridge
 Driscoll, George F., 548 Union
 Eberle, Otto A., 10 Nassau
 Eckart, F. W., 174 Huntington
 Edling, Julius, 211 Sumpter
 Eggers, John D., 599 Leonard
 Etter, N. A., 128 Kosciusko
 Ferguson, Robt. B. (Large), 254 Lee av
 Fltall, John C., 142 Emerson pl
 Franz, Chas., 365 Kosciusko
 Frazer, John, 44 Rochester av
 Fuller & O'Connor, 26 Court
 Gallagher, F. J., 490 Park pl
 Gately, A. L., 114 Bedford av
 Gay, W. C., 410 Berry
 Gibbons, John, 504 Court
 Glittins, Edward, 162 7th
 Gload, Adolphus, 558 McDonough
 Greeman, W. B. (Large), 350 Fulton
 Greer, Andrew H., 502 Franklin av
 Grening, Paul C. Construction Co., 26 Court
 Gutting, George, 263 Weirfield
 Hall, Albert C., 146 Cumberland
 Hall, Rhinehard, Coney Island av nr Avenue
 Hansen, Harry, 110 1st pl
 Hart, Chas., 617 Degraw
 Harter, Joseph, 24 Dean
 Hasson, Wm. S., 468 56th
 Herman, Cons. Co., 199 Montague
 Herod, Wm., 256 E 32d
 Hesterman, John, 174 Hamburg av
 Hill, Henry B., 215 Montague
 Hodgson, Jos. B. F., 474 Sumner av
 Hoffman, J. Paul, 816 Avenue O
 Holler, J. & F., 17 Kosciusko pl
 Hossack Bros., 62 Schermerhorn
 Hough, Samuel L. (Large), 344 Roehling
 Hoyt, Frank H., 83 Ashland pl
 Humbert, Paul, 781 Atlantic av
 Jersey Construction Co., 1041 Pacific
 Johanson, John A., 98 Stuyvesant av
 Johnson, Nicholas, Avenue X nr E 14th
 Jung, Fred'k., 314 Evergreen av
 Kane, Jas., 82 Rapelye
 Kay, Wm. E., 4605 5th
 Keeler, Jno. J., 344 Sackett
 Kelly's, F. J. Sons, 215 Montague
 Kennedy, Jno. & Son, 175 Front
 King, Martin, 152 Division av
 Kinsey, Jno., 14th av & 73d
 Kirches, Henry, 51 Butler
 Kleinert, Albert E., 16 Court
 Kohlmeier, Wm., 318 S 1st
 Kordes, Henry E., 243 Moffat

Lineburgh Bros., 700 Lexington av
 Lusso, Hector, 89 Fulton
 MacArthur, Jas., 22 Ormond pl
 McGarry, Wm. F., 236 Huron
 McKane, Theo., Surf av c W 8th
 McNamee, John, 16 Court
 McNamee, John, 190 Montague
 Mack, Andrew T., 406 9th
 Mader, Louis, 220 Vernon av
 Maguire, E. J., 1384 Dean
 Maillie, Jno. F., 1253 Prospect pl
 Martin, Geo. J. & Wm., 1440 Flatbush av
 Martin, Lemuel N., 1317 Fulton
 Meehan, Thos. F. & Co., 47 Van Brunt
 Metzler & Hadden, 164 Reid av
 Meyer, Henry, 15 Whitehall (Manhattan)
 Miller, Wm. G., 16 Bedford
 Miller & Schmidt, 394 Waverly av
 Monahan, Thos. & Sons, 190 3d
 Moore, John W., 307 Kingsland av
 Moran, Wm. J., 134 B'way
 Morrison, Geo. N., 228 State
 Muir, Alex. C., 155 Ocean Parkway
 Murphy Bros., 25th av c Cropsey av
 Murray, P. J. & Co., 215 Montague
 Nelson, John F., 693 Hicks
 Newman Cons. Co., 215 Montague
 Nolan, Peter E., 374 Gates av
 Norris, Fred'k. B., Midwood c Flatbush av
 Norton & Gorman, 303 Douglas
 O'Donnell, Wm., 324 Sachett
 O'Grady, John, 78 N 8th
 Olsen, Andrew W., 45 Ocean Parkway
 O'Rourke, John H., 264 39th
 Otis, H. F., 488 Clermont av
 Peterson, Martin, 42 Seeley
 Phraner, Chas. A., 431 Carlton av
 Post & Crane Co., 233 Norman av
 Pruden, Chas. L., 468 59th
 Randall, Stephen H., 41 Dobbin
 Ratner, Louis, 341 Stone av
 Raymond, Francis, 33 Love 14
 Ressler & Abel, 327 Irving av
 Reynolds, Chas. G., 12 Fenimore
 Riley, Jas., 601 Degraw
 Rucker, Henry, 129 Bradford
 Rush, Frank H., 393 Greene av
 Rush, Myron C., 327 Franklin av
 Ryan, Daniel J., 723 3d av
 Sage Bros. (Inc.), 4515 16th av
 Sawkins, Wm. H., 450 Argyle rd
 Schneider, Christian, 122 Debevoise
 Schneider, N. & Sons Contracting & Cons.
 Co., 142 21st
 Sherwood, Samuel T., Dorchester rd c E 19th
 Singer, Frank L., 1181 Brunswick av
 Singer, Otto, 621 St. Johns pl
 Sley, Jas., 3d av nr Bay Ridge av
 Sloan, Hugh F., 1622 Flatbush av
 Smith, Howard J. & Son, 256 St. James pl
 Smith, M. & Son, 511 Lorimer
 Smith & Thompson, 47 Park pl
 Stiner, Munroe, 4718 6th av
 Strauss & Charig, 12 Court
 Sutterliu, Ernest F., 13 Russell pl
 Toback, David, 1513 Eastern parkway
 Trevor, John, 161 Rodney
 Tritschler, Chas. C., 214 Bainbridge
 Tunison, Willard E., 262 Greene av
 Vall, Edward G., Jr., Bay 22d nr Bath av
 Van Duyn, Frank E., 94 Bradford
 Van Gassbleck, R. N., 225 Adelphi
 Veit, Herman, 255 De Voe
 Volfrei & O'Hearn, 417 40th
 Wagner, Jos., 84 Debevoise
 Walker, John J., 474 Classon av
 Walsh, A. Steward, 643 Madison
 Weekes, Samuel M., 66 S 10th
 Welch, Wm. L., 456 Tompkins av
 Welcher, Chas., 350 Evergreen av
 Wilson & Morgan, 456 14th
 Wischerth, Adam, 179 Boerum
 Witt, Paul, 88 18th
 Wood, Boyd H., 439 43d
 Woodham, Fred'k. R., 312 Tompkins av
 Wright, Wm. W., 250 Vanderbilt av

Boroughs of Manhattan & Bronx.

NEW YORK—Acker, Henry, 1338 Prospect av
 Acme Building Co., 32 Union sq E
 Adams, C. J., 23 Platt
 Adams, Louis, 217 5th
 Adamson, J. H., 57 Ann
 Ahneman & Youkhere, Bailey av c W 234th
 Alexander, Robert, 119 W 24th
 Alliegro & Spallone Cons. Co., 583 Morris av
 Amend, Geo., 16 Grand
 Ammann Mfg. & Cons. Co., 155 Avenue D
 Amsterdam Building Co., 41 W 24th
 Anderson, A., 102 E 126th
 Anderson, John C., 21 Pearl
 Anderson, Wm., 923 6th av
 Angus, John, 152 E 36th
 Anselmo & Martino, 84 Carmine

Ast, Chas., 2072 Belmont av
 Baecker, Geo., 160 Maiden la
 Ball, Stephen, 3682 B'way
 Bang, Amos E., 1732 Amsterdam av
 Bauta, John G., 8 University pl
 Barrow, William, 62 William
 Barry, Edward, 119 W 29th
 Barry, Edward A., 1149 Boston rd
 Baxter, Chas. R., Middletown rd
 Beers, Isaac, 114 E 23d
 Belnhauer, Alfred (Large), 280 4th av
 Beuenson, Isidor, 2133 Arthur av
 Benjes, C., 333 6th
 Bennett, Wm. H. & Son, 133 Cedar
 Benson Bros., 306 W 133d
 Berlin Cons. Co., 220 B'way
 Berrie, Joseph, Von Humboldt av nr W 259th
 Berry, Harry & Co., 101 W 66th
 Berry, Martin H. & Son, 60 Cliff
 Best, H. D. Co., 1170 Broadway
 Bishop, J. W. Co., 353 5th av
 Blaine, James T., 231 W 46th
 Blewett, Jas., 663 Lexington av
 Block, David L. Co., 611 W 135th
 Block, Louis (Inc.), 3 W 117th
 Boland & Son, 204 E 64th
 Bond, Alfred, 334 W 24th
 Booth, H. F., 1123 B'way
 Booth, S. H. & Sons, 30 Centre
 Boran, Michael F., 403 W 59th
 Borgia Construction Co.
 Bottsford, Dickinson Co., 1170 B'way
 Boyle, Frank & Sons, 500 W 44th
 Braender, Fred. W., 156 5th av
 Breen & Rinn, 510 E 71st
 Brengel, Wm., 755 7th av
 Brennan, Peter J., 624 Madison av
 Bresuan, Peter J. & Sons, 538 W 35th
 Brigham, Walter S., 2255 B'way
 Broderick, Edmund D., 1382 Lexington av
 Brogan, Wm. J., 1667 3d av
 Brose, Andrew, 1 Madison av
 Brown, Alex., Jr., 156 5th av
 Brown, W. J., 151 W 117th
 Buckley, Jos. R., 843-947 6th av
 Bulman, Hy. T., Ft. Washington av & 160th
 Bunn & Nase, 1123 B'way
 Burke, Jas. A. & Son, 180 W 102d
 Burke, Luke A. & Sons (Large), 25 W 42d
 Burns, Wm., 398 B'way
 Butler Bros. & Hoff (Large), 1170 B'way
 Byrne, Jas. C., 434 W 54th
 Cadoo, Geo. J. & Co., 357 W B'way
 Calumet Construction Co., 15 E 59th
 Cameron, Alex., 241 W 120th
 Campbell, Christopher, St. James bldg
 Campbell, Wm., 214 W 68th
 Canavan Bros., 518 W 56th
 Cane, W. H. & F. W., 17 Park row
 Carlin, P. J. Construction Co., 16 E 23d
 Casey, Richard H. (Large), 100 W 30th
 Chandler, B. D., 11 Thompson
 Chapman, Robt., 1874 Park av
 Christie, Jordan, 1233 3d av
 Christie, Robert & Son, 122 W 29th
 Chute, H. N., 23 E 86th
 Cippolla, G. & Co., Bronx boul nr 213th
 Clarihew & Novak, 259 W 27th
 Clark, Jas. A., 464 Canal
 Clark, John W., 86 Roosevelt
 Cluse, Robt. J., 509 Willis av
 Cobban, G. & J., 162 W 21st
 Cobban, Robert & Sons, 961 Columbus av
 Cockerill, Thos. & Son (Large), 147 Colum-
 Coffey, Wm. J., 243 W 57th hus av
 Colon, George & Co., 81 E 125th
 Colonial Construction Works, 516 E 72d
 Colwell, Hugh, 395 Brooks av
 Concrete Steel Co., 29 B'way
 Connors, Thos. D., 1123 B'way
 Conover, Frank E., 253 B'way
 Conrady Bros., 232 E 42d
 Cook, Ferguson A. & Son, 127 W 40th
 Cook, O. W. & Son Co., 127 W 40th
 Corning, Edward Co., 100 William
 Corson, George W. & Sons, 161 E 84th
 Cosgrove, David W., 142 W B'way
 Coventry, Frank, 1230 Lexington av
 Cowen, Chas. A. & Co. (Large), 1123 B'way
 Craig, Wm., 42 W 67th
 Cramp & Co. (Large), 36 E 23d
 Crawford, Wm., 5 E 42d
 Crockett, Thomas A., 179 W B'way
 Crockett, W. & W. F., 2 E 58th
 Cronk, John, 115 W 37th
 Crosbie, Martin J., 240 Spring
 Cunningham & Kearns Cont. Co., 434 E 91st
 Cusack, M. F., 233 Grand
 Davie, Jas., 107 W 100th
 Davin, D. W., 74 Irving pl
 Davis, John W., 543 W B'way
 Davis, Jos. Henry, 312 W 109th
 Davis, Jos. W., 211 E 19th
 Davis, R. L., 625 Hudson
 De Baun, Jno. F., 1368 B'way

Deeves, J. H. & Bro., 287 4th av
 Deeves, Richard & Son, 309 B'way
 Deisler & Stevenson (Large), 225 5th av
 Delaney Bros., 63 Madison
 Denneen, John J., 913 6th av
 Densmore-Coupton Building Co.
 Devlue & McGrail, 51 Ann
 Dlamond, Joseph, 1139 Wyatt
 Dick, James, 941 6th av
 Diller, Wm. E., 571 5th av
 Dixon, Wm. F., 30 E 20th
 Doane & Edelman, 126 William
 Doern, Peter, 18 E 42d
 Donahue, Cornelius A., 175 Waverly pl
 Dowd & Maslem, 217 W 125th
 Downey, Jno. (Est. of), 410 W 34th
 Duffy & Collin, 131 W 31st
 Duncan, Alex. & Son, 101 Prince
 Duncan, Wm. M., 852 Washington
 Durkin, Jno. J., 1 Madison av
 Eakins, John R., 689 Columbus av
 Edgar's, Geo. C., Sons, 2 W 88th
 Egan, Jas. F., 64 Ann
 Egan & Halleck Cons. Co., 901 Ogden av
 Eickhoff, Chas. E., 2704 B'way
 Elgar, James, 335 W 24th
 Engesser, Henry, 403 E 16th
 Erskine & McGregor, 205 W 19th
 Evans & Thomas, 147 W 53d
 Farley, James A., 571 5th av
 Ferguson, Robt. & Sons (Inc.), 119 Manhat-
 Fessler, Albert L., 451 W 40th tan av
 Finley & Hanford, 124 William
 Finney Building Co., 103 Park av
 Flanagan, Thos. J., 217 E 125th
 Forrest, Henry R., 315 W 53d
 Fountain, G. E. & G., 7 W 38th
 Fountain & Choate (Large), 114 E 23d
 Fraad Contracting Co., 245 W 26th
 Frame, Jas. A. & Son, 1044 Westchester av
 Frisbie, Benj. F., 455 E 164th
 Fuller, Elam H., 175 W Honston
 Fuller, Geo. A. Co., Fuller bldg
 Gabler, Jno. C., 64 Cortlandt
 Galbraith, Andrew, 607 W 46th
 Gallagher, Patrick, 1181 B'way
 Gallin, Jno. W. & Son, 509 Grand
 Gamp, Henry S., 1935 Clinton av
 Garland, James J., 8 Peck slip
 Gebliker, Ferdinand, 24 E 21st
 General Bldg. & Cons. Co. (Inc.), 1 Madison
 Gest, Guy M., 277 B'way av
 Getty, Hugh, 359 W 26th
 Gilbert, Wright L., 144 Chambers
 Gilleran, M. J., Pond pl & 197th
 Gillespie, T. A. Co., 90 West
 Gillies, Campbell Co., 1 Madison av
 Giordano, Thomas, 864 E 180th
 Goetschius, John H., 539 Hndson
 Goldman, Chas. A., 6 Liberty pl
 Graf, Henry, 391 Avenue A
 Grant, Alex., 4354 Vireo av
 Gray, A. & W. & Co., 237 W 37th
 Green, Warren E., 1133 B'way
 Greenlee, Wm., 429 E 238th
 Greenless, Thos., 147 Barnes av, Williams
 Gross & Herbener, B'way & 140th bridge
 Guidone, T. & Galardi, 1 Madison av
 Gumpel, David L., 83 Bleecker
 Gunn & Grant, 2335 Old B'way
 Gussaroff, Elias, 600 W 142d
 Haas, Julius, 767 Lexington av
 Haas & Freid, 90 E 10th
 Hall, W. W. & T. M., 11 E 42d
 Hammer, Ernest E., 2850 Marion av
 Hankinson, Christie Co., 232 W 40th
 Hanretty, Wm. R., 2110 Prospect av
 Harding, Lewis, 335 E 46th
 Hardy, Geo. H., 116 W 31st
 Harper, William G., 229 W 50th
 Hartman & Horgan, 934 Ogden av
 Haydock, Ephram, 574 Hndson
 Hearn, Jno. J., Cons. Co., 1 Madison av
 Heckman, John F., 9 Burling
 Hedden Construction Co., 1 Madison av
 Hedlund, John, 218 E 21st
 Heesch & Sibbert, 131 Beekman
 Henderson, Alex., 307 W 21st
 Henderson, Wm., 1123 B'way
 Hendrickson, C. Cyril, 20 W 34th
 Henningham, R. E. (Builder), 1 Madison av
 Hennebique Construction Co., 1170 B'way
 Herbst & Co., 25 W 42d
 Herrmann's, Philip, Son, 407 W 14th
 Hildebrand, Geo. (Large), 38 Park row
 Hillers, Angnst, 511 Park av
 Hillyard, Geo. D., 215 E 36th
 Hines, Frank H., 104 W 124th
 Hirschey, Urban C., 18 E 42d
 Hoe's, James C., Sons, 10 Liberty pl, 831
 Greenwich & 54 Gansevoort
 Hoffman, Wm. H. R., 273 W B'way
 Holding, Wm. F. (Large), 2426 Davidson av
 Hollow Brick & Concrete Cons. Co. (Con-
 crete Construction, etc.), 110 W 34th

Holmes Bros., 265 B'way
 Holmes, Jas., 53 King
 Hopper, Isaac A., & Son (Large), 1170
 Horne, Wm. Co., 71 W 132d B'way
 Horsfall Construction Co., 20 E 42d
 Honlhan, Daniel, 2867 Bainbridge av
 Honston, Thomas H., 101 W 57th
 Hubener & Escher, 762 Melrose av
 Hughes Bros., 162 W 27th
 Hunt, Geo. B., 139 4th av
 Hunt, James W., 653 E 236th
 Hurley, John, 156 5th av
 Imhoff, Anthony G., 249 W 18th
 Jacob, A. & Son, Morris av & 179th
 Jacob & Youngs, 1133 B'way
 Jeans, Edward, 59 Carmine
 Jennings & Welstead, 237 W 50th
 Johnson, Robert, 204 E 58th
 Johnson & Allen, 407 W 35th
 Johnston, Bros., 1567 Park av
 Johnston, Jas., 325 W 11th
 Johnstone, Jas., 3284 Hall av
 Jones Construction Co., 1 Union sq
JONES, THOMAS W., 32 Burling
 sl. (See adv. index, end of book)
 Jorgensen, Chas. G., 1283 Hoe av
 Jung, Jacob, 131 E 13th
 K. L. & W. Cons. Co., W 145th nr St.
 Keil, Richard, 1980 Daly av Nicholas av
 Kelley, Samuel D., 4 Gold
 Kelly, Joseph, 189 9th av
 Kelly, Robert E., 220 E 41st
 Kelly & Kelley, 45 E 42d
 Kennedy, John J., Moshulu av nr B'way
 Kennedy, Jno. & Co., 1133 B'way
 Kennedy, Richard, 619 10th av
 Kennelly, Maurice V., 64 Vesey
 Kerr, James P., 205 W 30th
 Kerwin, Andrew J., Jr., 53 W 24th
 Ketcham, Treadwell, 694 E 165th
 Kirkpatrick, Wm. J., 437 Lenox av
 Klappert's, C. W. Sons, 328 E 25th
 Klein, Wm., 418 E 83d
 Klein, Wm. & Sons, 191 E 3d & 505 E 15th
 Krep & Nezdol, 80 Dnane
 Krlewitth, E. M., 2 Blrmingham
 Lahr, Adam, Jr., 50 3d av
 Laimbeer, John, Jr., 289 W 50th
 Lanning, Wm. A., 300 W 152d
 Larrimer Construction Co., 30 Church
 Lawrence, Isaac C., 348 W 16th
 Lawrence, R. Warren, 350 E 150th
 Lawrence, Thos. H., 110 Greenwich
 Lawrence, Thos. H., 1053 Trinity av
 Leahy, Thos. B. Bldg. Co. (Large), 1 E 42d
 Leddy & Moore, 41 Christopher
 Lein, H. W., 128 W 49th
 Levin & Levin Contracting Co., 320 5th av
 Lewis & Jones, 407 E 31st
 Linch, John M., 1047 Trinity av
 Lindsay, Joseph, 521 W 110th
 Lithgow, George W. & Son, 41 King
 Littlejohn, Andrew S., 232 W 79th
 Long & Trenholm Co., 362 Willis av
 Lowry, Jas. L., 305 W 40th
 Lnstbader Construction Co., 352 E 76th
 Lustig & Weil, 352 E 76th
 McAfee, Robert, 55 Ann
 McBrien, Edward C. (Large), 244 W Hous-
 ton
 McBrien, John D., 71 Morton
 McCallum, John, 323 E 22d
 McCarthy & Macy, 841 Paile
 McClosky, Andrew J., 580 W 187th
 McCullagh, John H. & Sons (Large), 148 W
 McDermott & Hanuligan, 343 W 17th 4th
 McEntee & O'Brien, 1123 B'way
McEntyre, P. B. & Son, 220 W 30th
 McGarity, Jas., 1612 Bathgate av
 McGill, Hugh, 101 W 88th
 McGillen, J. J., 300 E 31st
 McGregor, Chas., 122 E 11th
 McGnire, S. A., 1170 B'way
 McGnire, T. J. Cons. Co., 100 W 139th
 McKean's, Wm. Sons, 48 Bank
 McKee, John, 220, 8th av
 McKee, John, 312 Lenox
 McKeefrey, John, 1416 B'way
 McKeown, Thos., 521 W 110th
 McKlernan, Jno. J., 2421 B'way
 McKne, C. S. Co., 503 5th av
 McNulty, John, 204 E 45th
 McRae, Christopher, 773 E 180th
 McWalters, James, 2434 B'way
 Macdonald, J. R., 405 W 59th
 Macdonald, Jno. H., 359 W 16th
 Magulre, Michael & Son, 88 Greenwich
 Maher, William G., 1133 B'way
 Mahony Bros., 101 W 42d
 Mahoney, Robt. J., 1133 B'way
 Manson, Donald A., 50 New & 9 Coenties sl
 Markenfield Construction Co., 26 Cortlandt
 Marshall, Frank, 142 E 42d
 Martin & Allen, 17 Sullivan
 Mathison, Jas., 547 Broome
 Meehan, Jas. F. Co., 1044 Westchester av

Melin, Otto, 176 Wooster
 Metz, Otto, 22 E 21st
 Meyer, Frank, 387 7th av
 Miller, Wm. S., 141 E 40th
 Milliken Bros., 11 B'way
 Mitchell, Donald, 304 W 53d
 Mitchell, Jas. E., 334 W 24th
 Monk, George, 92 8th av
 Moore's, A. Sons, 1 W 68th
 Moreland, J. & L. Co., 1910 Park av
 Morgan, Chas. F., 14 Pearl
 Morison, David, 119 W 33d
 Morrell, Cornelius S., 59 Ann
 Mortensen & Co., 1123 B'way
 Muldoon, Francis, 624 Madison av
 Muller, Louis, 500 5th av
 Mulligan, Geo. Co. (Large), 33 E 32d
 Mnrdock, Harvey (Large), 116 Nassau
 Murphy Bros., 407 E 101st
 Murphy, John H., 1026 6th av
 Murphy, Patrick, 371 E 14th
 Murphy, Patrick, 1611 Taylor av
 Murray, Thos. F., 344 E 146th
 Murray, Wm. J., 147 E 125th
 Murray & Charleston, 146 E 16th
 Nannmann, Henry C., 128 E 87th
 Nelson, Andrew, 158 E 115th
 Nesbit, F. T. Co. (Inc.) (Large), 116 Nassau
 Newman & Lnte, 25 W 42d
 New York Bldg. Alterations Co., 231 E 17th
 Nickisch, Jno. H., 217 W 125th
 Nickisch, Theo. H., 1843 Harrison av
 Niewenhons, S., 1 Madison av
 Noble & Gans Cons. Co., 641 E 161st
 Norcross Bros. Co., 160 5th av
 North Eastern Cons. Co., 225 5th av
 Nurnberg, Paul, 219 E 59th
 O'Brien Bros., 55 South
 Ocmore Building Co., 435 W 147th
 O'Connell & Hanna, 271 W 125th
 O'Connor, Francis X., 249 W 52d
 O'Keefe, Jno. J., 1 Hagne
 O'Leary, John J. Co., 39 Cortlandt
 Oppenheim, Louis, 1571 2d av
 O'Rourke, T. B., 533 W 42d
 O'Shea, P., 148 W 28th
 O'Shea, Walter L. & G. H., 29 B'way
 Otis, H. W. & Co., 39 E 42d
 Ontwater, Edwin, 949 B'way
 Owens, Edward, 106 W 135th
 Overhulse, Benj. F., 179 E 77th & 185 E
 Parker, Jno. H. Co., 227 4th av 79th
 Parkinson, Charles, 67 Greenwich
 Parry, Elton E., 2127 B'way
 Partridge, Chas. R., 1123 B'way
 Pasquini, Attilio, 1123 B'way
 Paul, Edw. E., 289 4th av
 Peaston, Peter, 372 Water
 Peckworth, Chas. H. (Large), 415 Hudson
 Penney, Thos., 19 Thames
 Pennock, J. E. & A. L., 1133 B'way
 Perry, Wm. H., 3226 Hull av
 Pfost, Gnstave, 187 Franklin
 Pfund, Hippolyte, 342 E 61st
 Pigneron, Geo. H., 32 Union sq. E
 Pigneron, Wm. G., Union sq E
 Pihlman, Gustav I., 266½ William
 Poerschke, Edw. R., 107 Bible House
 Polley, Jacob W., 3391 3d av
 Potter & Fonbister, 132 W 16th
 Potterton Bros., 215 W 28th
 Power, James, 482 Pearl
 Probst, Herman, 10 W 29th
 Prodgors, Geo. W., 287 4th av
 Pugh, Paul B. & Co., Riverside dr & 109th
 Quinn, Thomas J., 3219 3d av
 Rae, Thomas & Son, 253 W 27th
 Ralman & Ackerman, 241 E 29th
 Randall, Stephen M. & Son, 1123 B'way
 Rapp Cons. Co., 301 E 94th
 Rasmussen, James, 126 W 19th
 Ravekes, Albert & Son, 6 Sullivan
 Ray, F. A., 240 W 23d
 Reed, Washington B., 585 7th av
 Regan, Edward, 16 Abingdon sq
 Rebback, Wm., 303 E 157th
 Reid, M. & Co., 114 W 39th
 Reinhardt Bros., 643 5th
 Republic General Cons. Co., 34 W 33d
 Rice, Lawrence J., 5 E 42d
 Richter, George, 100 William
 Riley & Corrigan (Inc.), 140 W 42d
 Rixson, Oscar C., 7 E 42d
 Robb, James, 450 W 31st
 Roberts, James S., 189 E 115th
 Roberts, Jno. B. & Co., 1 Madison av
 Roberts, P. & Co. (Inc.), 37 Sullivan
 Robertson, John, 708 E 138th
 Robertson & Gammie, 986 E 138th
 Robinson, A. J. Co., 123 E 23d
 Robinson, J. C. & Son, Madison av
 Rodler, Albert, 186 William
 Rodgers, J. C. & Son, 1929 Amsterdam av
 Rogers, Geo. W. & Co., 44 B'way
 Rosenthal Cons. Co., 31 Liberty

Ross-Push Co. (Large), 34th & B'way
 Ross, Chas. R., 20 Cedar
 Russell & Pfeffer, 1 Madison av
 Rubing, Henry, 243 E 38th
 Ruddell, Geo. W., 25 W 42d
 Rue, Elwood, 219 W 29th
 Runcie, John H., 228½ Columbus av
 Russ, John P., 984 2d av
 Russell Contracting Co., 156 5th av
 Russell, Edward M., 165 Crosby
 Rutherford, Richard A., 135 Mangin
 Ryan-Parker Cons. Co. (Large), 21 Park row
 Ryan, Peter J. (Large), 314 W 44th
 Schaefer, John V., Jr. & Co., 9 E 59th
 Schlesinger, Max I., 449 W 41st
 Schloss, D. & Sons, 234 Delancey
 Schultz & Enlenslein, 1960 Anthony av
 Schmaier, Robt., 957 Madison av
 Schubiger, Jacob, 217 Centre
 Schuck, Geo., Adrain av, Marble Hill
 Scott, John H., 63 Prince
 Scott, Thos., 400 W 53d
 Scott, Thos., 319 W 54th
 Schuh, Chas. P., 4 Albany
 Schuyler, Philip, 121 Watts
 Schwarzler, Albert J., Brook av & 169th
 Scrafford, Fred. A., 315 W 21st
 Sebover, David, 620 6th av
 Sedore, Conrad, 79 Charlton
 Sexton, Wm., 136 W 34th
 Shone, James, 207 W 20th
 Silman & Whittle, 114 University pl
 Silverman, C. M. & Sons, 1448 Madison av
 Singhi, Henry N., E Kingsbridge rd nr
 Aqueduct av

Slevin, Jas. F., 12 Chambers
 Sloane & Moller (Large), 316 E 65th
 Smith, Charles & Son, 102 Maiden la
 Smith, Edward & Co., 43 Ann
 Smith, F. V. Contracting Co., 147 E 125th
 Smith, Havilah M. & Son, 78 Watts
 Smith, Robert W., 235 E 35th
 Snare & Triest Co., 143 Liberty
 Sodergren, Eric, 159 St. Nicholas av
 Solomon, Rubin & Son, 949 B'way
 Somerville, Wm., 317 E 122d
 Southern & Marshall, 207 E 49th
 Spangenberg, Chas., 211 E 59th
 Spence, James, 131 E 18th
 Spence, James B., 285 W 150th
 Springsted & Adamson, 424 E 107th
 Staats, Wm., 225 E 58th
 Staiger, Chas., 224 E 9th
 Stannard, Ambrose B., 1133 B'way
 Stanton, George, 37 Lafayette
 Steel, Alex., 228 W 10th
 Stegmayer, Jas., 168 E 91st
 Stephens, Jeff. K., 138 Baxter
 Steward, Duncan, 217 W 124th
STEWART, JAS. & CO. (Large),
 North American Trust bldg

Stoddard & Hughes, 246 W 29th
 Story & Flickinger, 5 Gt. Jones
 Strand, Anton, 152 E 53d
 Sullivan, Patrick, 230 Grand
 Sutherland & McNeill, 265 Greene
 Swallow & Howes, 300 5th av
 Taylor, William J., 7 E 42d
 Temple & Veraneau, 217 W 125th
 Tennant, John H., 4 7th av
 Thompson-Starrett Co. (General Building
 Construction), 49 Wall

Thompson, Walter E., 1123 B'way
 Thornton Bros. Co., 1320 Clay av
 Tide Water Bldg. Co. (Large), 25 W 26th
 Trapp, Nicholas H., 17 Thames
 Turner, Ernest M., 1123 B'way
 Turton, Jno. K., 1133 B'way
 Udall, Jno. Clark, 29 34th
 Ungrich, L. K. & L., 1676 Amsterdam av
 Uttersen, Chas. S., 908 6th av
 Vail, Benj. H., 58 West
 Van Aken, Chas. H., 148 W 4th
 Van Doorn, Wallace & Son, 229 W 36th
 Van Houten, Erskine, 1181 3d av
 Van Wagoner-Liun Cons. Co., 110 W 28th
 Vickers Construction Co., 162 W 50th
 Vondendriesch, Albert (Large), 204 E 86th
 Vought, Henry H. & Co. (Large), 112 W 42d
 Vreeland, J. C. Building Co., 1 Madison av
 Wahlig, Frank A. Co., 406 E 149th
 Wakeham & Miller, 1133 B'way
 Walker, Geo. L. Co., 3424 B'way
 Wallace, Wm., 203 W 18th
 Walsh, John F., Jr., 136 Charlton
 Walsh, J. F. & Bro., 351 Park av
 Walsh, P., 420 W 25th
 Walsh, Patrick J. (Large), 503 5th av
 Walsh, Richard L. Co., 100 William
 Watson, John, 259 W 21st
 Watson, Thos. B., Jr., 122 William
 Watt & Sinclair, 160 5th av
 Watts, William, 38 W 13th
 Webber Construction Co., 1 Madison av
 Weber, Hugo J., 10 E 23d

Weber, John & Sons, 12 E 23d
 Weber, Louis Building Co., 1 Madison av
 Webster, Lewis C., 59 William
 Wechsler, Louis, 1133 B'way
 Weed, H. M. & Co., 124 W 45th
 Weeks, D. C. & Son, 287 4th av
 Wells Bros. Co., 160 5th av
 Wendt, Chas., 261 Pearl
 Werner, Wm., 894 Forest av
 Westervelt, John D., 50 Grove
 West Side Cons. Co., 200 Riverside av
 Wexler, Adolph, 2036 Webster av
 Whisten, Stephen A., 25 W 42d
 Whitenack, J. Odell, 99 Vandam
 Wlelandt, Michael, Jr., 1052 Boston rd
 Wilkens, Henry, 207 E 51st
 Williams, Jas. C., 241 W 125th
 Wills, Chas. T. (Inc.) (Large), 156 5th av
 Willson, Andrew, 53 Rose
 Wilson, J. B., 11 E 10th
 Winberg, William, 15 E 13th
 Winne, Andrew A., 100 W 49th
 Wright, Garret S., 421 W 24th
 Wright, Wm. H. & Son (Large), Valentine
 av & 192d

Wright & Brown, 304 W 25th
 Young, G. Thos., 206 W 51st
 Young, Wm. Co., 550 W 41st
ZIMMERMANN, JACOB A. (Large),
 1358 B'way. (See adv. index, end of book)

Borough of Queens.

AQUEDUCT—(See Woodhaven)
 ARVERNE—(See Rockaway Beach)
 COLLEGE POINT—Carroll, Patrick
 Muller, Rudolph
 Raw, John F.
 CORONA—Andereya, Henry H.
 Collison, Chas.
 Dioguardi, Chas.
 Labriola, Frank
 Monteverde, Frank S.
 Rausciana, Domenico
 Ruge, James E.
 Schrott, Ames, 35 Prospect
 LOUGHLASTON—Hamilton, Wm. J., Pine
 ELMHURST—Card, W. C.
 Kempf, Otto
 Lurz, Frank, 7 Plain
 Surbeck, E. F.

EVERGREEN—Art Concrete & Construction Co.
 Klee, Balthaser
 Kull & Co.
 Michel, John
 Obach, Geo. Peter
 Roeder, Fred.
 Spitzer, Geo.

FAR ROCKAWAY—Black, Robt.
 Borchardt, Max
 Bouker, D. C., Jr.
 Fulcher, Chas. A., Grove nr Cornago av
 Gibson, Henry C.
 Kaiser, Geo., Remsen av
 O'Rourke, Ralph, Grove
 Pepper, T.
 Roche, Edward, Grand View av
 Wynn & Walter

FLUSHING—Auburndale Co-operative Cons. Co.
 Cadoo, John C. W., Amity
 Christ, John M.
 Fowler, Jos. B., 151 Washington
 Fox, M. H., 20th
 Grimmer, Henry G., 189 22d
 Haak, Wm. A., 318 Barclay
 Mara, P. J., Whitestone av
 Peace Bros.
 Richardson, Edw., 43 Percy
 Roberts, Evans J., 330 Amity
 Roberts, Bull & Co., 93 Amity
 Simmons, John J., Lincoln
 Stapleton, Edward
 Sullivan Bros., 11 Main
 Van Riper, Isaac & Son
 Walters & Woodill, 32 Madison av
 Warfield, Geo. A., 30 Wilson av
 Willson, John H.

GLENDALE STATION—Quinn & Grennan
 Stier, Paul

JAMAICA—Anderson, John E.
 Bourke, E. H.
 Bangert, Valentine, 34 Orchard
 Carmen, Fred'k E., 101 Harriman av
 Carmen, Stephen, 32 Ackroyd av
 Cohen, Koppel
 Foley, Thos.
 Freund, Herman
 Hoffman, Chas., 21 Ackroyd av
 Meyn, Henry, Canonbury rd
 Mullen, H. J., Fulton
 Schneider, Henry
 Siebert, Martin, New York av

LAWRENCE—Smith, Jno. H.
 LONG ISLAND CITY—Brahya, Jno. N., 288
 Brown, Thos. A., 699 Crescent Crescent

Clark & Tuniston, 188 Jackson av
 Couch, Wm., Main cor Woolsey
 Fischer, Geo. & Co., 406 12th av
 Foster, Joseph H., 459 Steinway av
 Geiser, Jos., 835 Albert
 Herold, Christian, 223 Lockwood
 Hilbert, F.
 Koch, Wm., 543 Steinway av
 Miller, Philip, 30 Wilbur av
 Murnane, James, Bebee av
 Pearson, S. & Sons (Inc.), Front
 Richensteen, Wm., 36 Jackson
 Smith, John, 491 Radde
 Stevenson, Jas. A., Jackson av
 Van Riper, F. G. & G. T., 24 Jackson av
 Weeks, D. C. & Son, Gale
 Woodruff, C. Curtis & Co., 213 10th
 Woodruff, J. T. & Son, 63 3d
 MASPETH—Hause, Louis
 Losee, Frank
 MIDDLE VILLAGE—Ehman, Chas.
 OZONE PARK—Beadle, V. W.
 Queens Borough Construction Co.
 Smith, Melville B.
 METROPOLITAN—Kirchner, W. & Son
 Knott, L.
 RICHMOND HILL—Biggs, Nathanel
 Clarke, Thos. J.
 Collins, Thos., Chestnut
 Relchard, John F.
 Reis, Chas., 230 Briggs av
 Riis, Andrew J.
 Van Wyck, Park Co.
 Vetter, C. Ernest, Hillside av
 Wade, W. H., Jr., 235 Elm
 White, J. A.
 Woodin, David B.

ROCKAWAY BEACH—Baldwin, Mrs. Margaret
 Close, Geo. H.
 Esterbrook, Le Grand
 Jorgensen, John C.
 Schoneke Bros.
 Snyder & Ward
 Stultz, Geo.

WINFIELD—Ferguson & Hamble
 Klein, Theo.
 Tymann, Christian, Madison av
 Worth, W. S.

WOODHAVEN—Brower, Alex.
 Brust, John
 Guilfoyl, Peter
 Guthy, Peter
 Singer, Chas., Woodhaven av

Borough of Richmond.

CASTLE CORNERS—Vroom, G. B. & Son
 Vroom, Richard B. & Son

DONGAN HILLS—Butler, T. E.
 FORT WADSWORTH—(See Rosebank)
 GRANITEVILLE—(See Port Richmond)
 MARINER HARBOR—Bailey, Robert & Son, 18
 Osborne, W. W. Lockman av

NEW BRIGHTON—Brayn, Edwin, York ter
 Cahallinc, Daniel J.
 Lyon, Robt., 96 York av
 McIntyre, Archibald
 Norman & Young, 1st
 Ripley, David, 4th av
 Russell, Wm. H. C.

NEW DORP—Coleman, J. S.
 PORT RICHMOND—Conklin, H. M., Richmond
 Donovan, John E. ter

Hagaman, Andrew, 6 Hatfield pl
 Hardy, Thos., 160 Heberton av
 Milnes, John Co., 2 Hatfield pl
 Simonson, Henry L., 101 Heberton av
 Sterner, Wm. C., 42 Blkfrd

Whitford, E. K., 104 Heberton av

PRINCE BAY—Peterson E.

ROSEBANK—Sanford, Ross P.

Willshaw, Thos. H.

SEASIDE—Pearsall, Peter

STAPLETON—Beinert, Chas., 123 Richmond rd

Cummings, Thos., Jr., 15 Metcalf

Langworthy, Henry J.

McDermott, Wm.

Morgan, Thos., 58 McKern

Spruck, Henry L. & Son, 181 Broad

Wolff, Philip & Son, 14 Wright

TOMPKINSVILLE—Andrews, W.

Peterson, Henry

TOTTENVILLE—Joline, Wm. E.

Lee Bros.

WEST NEW BRIGHTON—Archer, Christopher,

Donovan, J. F., Henderson av 20 Bodine

Filmer, Drew

Lynch, Wm. H., Castleton av

Markham, Clarence H.

Winans, John, Bmnt. av

(End of New York City)

NIAGARA FALLS—Allen, Fred'k J., Walnut
 Barbar & Wilson av c 2d

Baumhofer, A. J.

Bennett & Shephard

Brophy, G. H.
 Bryant, D.
 Conway, Edward
 Cowdrick, W. J. S. & Co., 520 2d
 Cusans, Thomas
 Eagan & Cox
 Finley, Michael
 Finnell, John H., 450 Elmwood av
 Gallinger, J. H. Co.
 Hardy, Robt.
 Hartman, N. Fred'k
 Huttlemayer, A. A.
 King, E. M. Co.
 Lennon, Jno., Son & Co.
 Marshall, W. F.
 Mess, Geo.
 Neighbour, Frank
 Newson, David & D. J.
 Pettit, D. J.
 Pitman & Allen
 Read, Coddington Engineering Co.
 Richardson, Frank
 Ryan, M. T.
 Schumacher & Moyer
 Shepard, Chas. T.
 Shepard, William A., 701 Pine av
 Smart, Geo.
 Snyder & Gillett, 911 McKeon
 Speicher, John F.
 Stembrenner, Carl, 1339 Cleveland av
 Wynes Bros.
NORTHPORT—Baldwin, John
 Brush, Geo. W.
 Burt, Henry W.
 Conklin, Clarence A.
 Ruland, D. S. B.
NORTH TONAWANDA—Bredlan Bros.
 Gemlo, Jno.
 Hildebrandt, Fred.
 Hofert, Wm. F., Jr.
 Ideal Sectional Building Co. (The)
 Jacobs, Calvin
 King Construction Co.
 Morris & Allen (Inc.)
 Ostwald, Wm.
NYACK—McElroy, Charles
 Magee, John
 Post, John H., 19 Bridge
 Rooney, John M.
OGDENSBURG—Feeley, John
OLEAN—Anderson, S. H.
 Button, S. E.
 Corsett, L. E.
 Dean & Havens
 Donahue, Ed.
 Gillingham & Son
 Nichols, G. A.
 Ritzaner, G. C.
 Rudolph, L. C.
 Sheldon, J. A.
 Taylor, B. U. (Large)
 Weagraft, F. C.
 Wetherill, James & Son
 Worden, Chas. H.
ONEONTA—Briggs, N. H. & Son
 McFee & Borst
 Packer, J. W.
OSSINING—Carpenter, Daniel
 Ouatt, Wm.
 Furnaro, James
 Gerow, Wright A.
 Haft, John W.
 Murray, A. B.
 Powers, Wm. O., Bellevue av, W. H.
 Smith, Gilbert
 Smith, John
 Valentine, Eli, 1 Terrace av
OSWEGO—Barnett Cont. Co., 119 Water
 Paine, A. & Sons, 142 W 2d
OWEGO—Ford, Lucius
OZONE PARK—(See New York City, Borough
PATCHOGUE—Conklin, J. H. of Queens)
 Gerety, John L.
 Petty, Ernest E.
 Van Slingerlandt, G. W.
 Vrooman, Clarence H.
PATTERSON—Mead, Alex.
 Newcomb, L. A.
PEEKSKILL—Barker, Asbury
 Birdsall & Thomas
 Durum, Patrick A.
 Gandnier & Wildman
 Golden, W. H.
 Ham, Chas. E.
 Hill, Eugene B.
 Hopkins, Requa & Hopkins
 Lindenau, Paul
 Miller, James
 Renza, A. S.
 Smith, Eugene T.
 Thompson & Baxter Cons. Co.
 Washburn Bros.
PENN YAN—Flahive, James
 Kelly, C. M. & Co.
 Waddell, Geo. W. & Son

Wheeler, W. E.
 Willoughby, T.
 Willoughby, W. H.
PLATTSBURG—Boissy & Brow
 Buckley Cons. Co., 21 Clinton
 McQuillan, Arthur
 Shutts, Stephen A.
PORT CHESTER—Alves, Conrad
 Gleason, George
 Hamilton, Wm.
 Kennedy, L. J. & Sons
 Merritt, John O. Co.
 Mertz's, Geo., Sons (Inc.)
 Murray, Frank E.
 Nethercott, Jno. J.
 Stamboni, Michael
 Studwell, Thos.
 Weir, James
 Williams, C. H.
PORT JEFFERSON—Lawrence Bros.
PORT JERVIS—Goble, Floyd S.
 Post, G. A.
 Raymond, F. B.
PORT RICHMOND—(See New York City, Bor-
 ough of Richmond)
PORT WASHINGTON—Carpenter, Eugene E.
 Cocks, Chas. D.
 Henderson, Edwin
 Hulls, Wm. H.
POUGHKEEPSIE—Becker, Peter
 Carter, Fred. N.
 Central Hudson Cons. Co., 33 Market
 Davls & Shover
 Freer, Irving & Ackert
 Greene, Oliver A.
 Higgins, Peter J.
 Hillery, James P.
 Keating, Jos. S.
 Madsen, Fred., 1 Grove
 Manning, Marcus W.
 Martin, Jas. E.
 Mitchell, Chas.
 Montford, W. J.
 O'Donnell, John
 Rnst, Wm. H. & Son, 363 Mill
 Titus, Willet, 59 Catherine
 Van Aken, Geo. J.
PRINCE BAY—(See New York City, Borough of
 Richmond)
QUEENS—(See New York City, Borough of
 Queens)
RENSSELAER—Dahm, Geo. B. & Son
 Finkle, C. J. & Son
 Hart, Geo.
 Sitzer, Fred. P., 1114 3d av
 Zepp Bros., 2 4th av
RICHMOND—(See New York City, Borough of
 Richmond)
RIVERHEAD—Hempstead, Chas. H.
 Laue Bros.
ROCHESTER—Albright, Edmund L., 1006 In-
 Belt, Fred. E., 5 Copeland snrance bldg.
 Bennett & Parry
 Bergmann, John N., 29 Avenue C
 Binsack, Isaac J., 390 Pennsylvania av
 Brotsch, Frank V. Co., 349 S Goodman
 Brotsch, F. A. & Son, 12 Triangle bldg
 Burling, Jas. W.
 Calnan, John, 521 Plymouth av
 Christiausen Bros., 320 State
 Clark, Geo. W., 15 Adelaide
 Coudon, Richard, 98 Albemarle
 Cowles, Horace N., 6 Gorsline
 Crouch, Jas. H., 202 Jones
 De Jonge Bros., 395 Joseph av
 Delano, F. B. Co., 32 Mt. Hope av
 Dick, Wm., 231 Park av
 Doyle, Chas. J., 95 Richard
 Enders, P., Rustic n Clifford
 Erion, John H., 4 Park av
 Ets, Norris, 5 Orleans
 Ferge, George F., 22 Henrietta
 Field, Wm. A., 54 Breck
 Finucane, T. W. Co., 3 Elton
 Fisher, Henry C., 58 Finch
 Frederick, A. & Sons Co. (Large), E & B.
 Garrison, G. B. (Large), 4 Walton bldg
 Gleason, Fred'k A., 31 Appleton
 Goldstein, Abraham, 98 Kelly
 Gorsline-Swan Cons. Co., 718 Chamber of
 Commerce
 Greece Cons. Co., 718 Chamber of Commerce
 Hack, Adolph, 7 Englert
 Hammill, J. P., 5 Bauer
 Harris, J. D., 174 Harvard
 Hasenauer, Chas., 506 Bay
 Henley, Geo. S., 77 Grand av
 Hetzler, Charles, 339 Smith
 Hoffman, C. J. & Sons, 3 4th
 Hoffman, G. F. & C. W., German Ins. bldg
 Honeck, Hy., 300 Clifford
 Horn, Chas. L., 309 Joseph av
 Huber, Philip, 1063 N Goodman
 Ingran, Geo. P., 53 Berkeley
 Isler, Herman, 430 Joseph av

Justice, John H., 695 St. Paul
 Kamm, Casper, 423 Joseph av
 Karweick, John & Son, 48 Rauber
 Keith, Clifton A., 42 George
 Kelly, Thos. J., 158 Genesee
 Kenny, Wm., 86 Frost av
 Kingston, Geo. G., 97 Bronson av
 Kircher, Geo., 444 Alphonse
 Knapp, Homer, Triangle bldg
 Kramer, Karl P., 1 Jones
 Kusse, A. J., 447 Park av
 La Force, Martin, 69 Remington
 Laner, Edward C., 406 Powers bldg
 Lauer, Harvey M., 785 Portland av
 Lays, Edward J., 35 S Water
 Lee, E. A., 2 Lee pl
 Lester & McMullen, 9 Basin
 Levin, William, 10 Rhine
 Link, A., 654 South av
 Luther, John & Sons Co., 162 North
 McCarthy, Wm. F., 10 Mt. Pleasant pk
 McKibbin, Daniel S., 7 Cobb
 Maas, Wm. F., 15 Sander
 Maehan, John F., 175 Warner
 Mahancy, M. 263 Flint
 Matthews, Wm. L., 407 Jefferson av
 Matzig, Joseph, 292 Averill av
 Marson, Wm. H., 643 Exchange
 Meyer, Anthony, 896 Clinton av
 Moll, Frank J., 138 4th
 Morgan, Geo., 31 Mason
 Oberlie's, Henry Sons, 704 Clinton av S
 Oliver, H. T., 328 South av
 Osborue, Jas. P., 68 Spring
 Pappert, Aug. & Sons, 707 Clinton av S
 Perkins, W. A., 308 Plymouth av
 Peters, Wm., Dewey av
 Pike, John B., 13 Minerva pl
 Potter, L. H., 145 Champlain
 Rapp, Fred. H. & Co., 401 Granite bldg
 Rice, Henry, 85 S Union
 Ripton & Murphy, 72 Penn
 Robinson, Elmer E., 21 Montrose
 Rnebsam, Blasius, 326 Joseph av
 Sage, Geo. W., 30 Rowley
 Salter, Thomas, 118 Frost av
 Saucke, Wm., 82 Saranac
 Sauer, F. J., 31 S Water
 Sauer, Henry G., 42 Gregory
 Schieven, Geo., 497 Joseph av
 Seitz, F. C., 207 Hudson av
 Selbert, Geo., S Vetter
 Siebert, Florin F., 108 Hamilton
 Smith, Chas., 4 Rainier
 Stewart, J. L., 230 Lyndhurst
 Stoecklein, Martin, 53 Herman
 Strauchen, Edward, 309 Portland av
 Stroger, Chas. P., 17 Columbia av
 Summerhays, Wm. & Sons, 9 Exchange
 Thiem, Herman C. & Co., 963 St. Paul
 Trangott, F. G., 207 Wilham
 Verwey Bros.
 Wagner, J. G., 20 Leopold
 Walch, Robert, 51 Taylor
 Wegman, George, 720 N Clinton av
 Yates, Chas. H., 56 Davis
 Yauch & Pfluger, 53 Lincolu
 Zielinski, Stephen, 543 Hudson av
 Zunner Cons. & Equipment Co.
ROME—Carey Cons. Co.
 Gerwig, J. W.
ROSEBANK—(See New York City, Borough of
 Richmond)
ROSSVILLE—(See New York City, Borough of
 Richmond)
SANDY HILL—Cnshing, M. E. Richmond)
 Gihson Bros.
SARANAC LAKE—Branch & Cahaman (Large)
 Eicholtz, H. F. Cons. Co. (Not Inc.)
SARATOGA SPRINGS—Adee, Wm. L.
 Case, W. J. & Son, 45 Philadelphia
 Crocker, Harry, 63 Putnam
 Dunn, Thos.
 Fitzgerald, J. P.
 Ledlie, David B.
 Palmer, C. E.
 Robertson, Wm. S., Putnam
SAUGERTIES—Howard, L. B.
 McNally, Geo. W.
SAYVILLE—Bason, Wm. & Son
 Hulse, Chas. H.
 Nnns, Robt.
 Strong, Nelson
SCHENECTADY—Anker & Cornean
 Avery & Simmons
 Bailey, J. B.
 Brougham, Geo. B. M.
 Brown & Lowe
 Buckley Cons. Co.
 Caw, Wm. G., 29 N Ferry
 Chuhh, H. W.
 Clements, Joseph H.
 Davis, A. G.
 Dickhoff, Sanel, Hulett & Delmont av
 Eggleston, G. W.
 Fink Bros.

Gridley, C. M.
 Griesman, Andrew F.
 Hall, Fred. O.
 Hanigan, Edw., 24 Nott ter
 Hanrahan Bros.
 Hewitt, E. O.
 Jeffers, Allen
 Jeffers, Lewis E.
 Kinum, Andrew, 119 Park pl
 Lewis & Burroughs
 McCaron, James H.
 McDermott, John
 Maloney, James
 Porter, E. R.
 Reynolds, W. A.
 Sager, Van D.
 Schenectady Contracting Co.
 Service, B. G.
 Simpson, W. H. Co. (Not Inc.)
 Swolensky, A.
 Taylor, F. K.
 Wellman, Walter, 928 State
SENECA FALLS—Fletming, F. W.
 Stahl, Peter A.
SPRINGLAND—(See New York City, Borough of Queens)
STAPLETON—(See New York City, Borough of Richmond)
SYRACUSE—Burns, Wm. J., 1101 N State
 Carr, William, 113 E Castle
 Dickison, Guy B., 213 Kirk bldg
 Heffernan, T. & Son, 100 Catharine
 Hodge, I. A. & Co. (Inc.)
 Deter, Geo., 808 Kirkpatrick
 McCarthy, Wm. H., 2204 S State
 O'Brien & Hoolihan (Large), 1718 Park
 Tuck Woodworking & Building Co.
TARRYTOWN—Blouin, Alfred
 Blouin, Joseph
 Brewer, Jas. P.
 De Rever, Irving
 Duell, Jas.
 Minnerly Constantine & Son
 Page, David
 Van Tassel, Milton
TOMPKINSVILLE—(See New York City, Borough of Richmond)
TONAWANDA—Brown, Chas.
 Chase, Geo. E.
 Rogers, E. H., Jr.
 Smith, Peter
 Winters, Carl C.
TOTTENVILLE—(See New York City, Borough of Richmond)
TROY—Bergemann, Andrew
 Bison, Jas.
 Boland, Chas. P. Co., Times bldg
 Booth, Raymond M.
 Breton, Fred. F.
 Bulmer, James S.
 Calhoun, David H.
 Campagne, Thos.
 Campbell, Wm.
 Cary, Geo. W.
 Cary, Robt. T., 1704 Highland av
 Casey, Philip
 Cass, Chas. A.
 Collins, Chas.
 Collins, Thos.
 Cooper, Wilson
 Cardwell, Thos.
 Corliss Cons. Co.
 Crutchey, Jos. W.
 Curtis, Geo. A.
 Cushing, Garrett
 Daly, Patrick
 Darrow & Gallagher
 Dollard, James (Large), 200 9th
 Duncan, Charles (Large), Hill
 Edwards, John N.
 Ellis, Jno. E., State Bank bldg
 Gontier, Edw., 42 Church
 Graves, Edward
 Hannan, Geo.
 Haynes, Catherine L.
 Hudson Valley Cons. Co., Times bldg
 Jackson, M. G. & Son
 Joyner Bros. & Co.
 Kane, James
 Kearns, P. J.
 Kimball, Henry A.
 Koerner, Wm. G.
 Kroneck, John H.
 Lasher, Guy W.
 Lee, John H.
 Mack, Nathan
 Mansfield & Burton
 Martin, Wm. E. (Large), Front nr Grand
 Miller & Skov, 2d av c 9th, Lans.
 Milligan, Jas.
 Morin, Anthony, 107 Church
 Morrissey, James H., 371 2d
 Murray, Martin
 Neal Bros. Construction Co., head of Douw
 Phillips, Francis M.
 Powers & Mansfield Co.

Richardson, Mervin
 Roth, L. & Son
 Roth, Wm.
 Soutare & Ritchie, 42 Bridge av
 Spence, Geo., Jr., 53 Church
 Stone, John A.
 Wench, Jas. A.
 Wylie, John W.
UTICA—Antes, John, 229 Dudley av
 Byrnes, Thos. F.
 Gassner, A. & Son
 Griffiths & Pierce, 72 Charlotte
 Hughes, Jno. F. Cons. Co., 33 Charlotte
 Kerner, P. & Son, 2 Canal
 Lloyd, Richard G., 39 South
 McCaffrey, Patrick J.
 McDermott, Thos. C.
 Peters, N. D. & Co.
 Richards, Richard & Son, 42 Elizabeth
 Roberts & Williams, 70 Charlotte
 Troy Public Works Co.
 Utica Stone & Cons. Co., 722 Genesee
 Yoemans, D. A., 63 South
WALDEN—Crawford, Jas. L.
 Kidd, Willard
 Wooley & Sinsabough
WARSAW—Burlingame, Chas. A.
 Christ, Otto
 Crocker, Dell G.
 Williams, Herbert
WATERFORD—Eveline Bros.
 Griffin, John J.
 O'Connor, B., 30 4th
 Sherman, Chas. P., Ballston nr 3d
 Sherman, Ephraim
WATERTOWN—Case & Folsom, 12 River
 Charlebois Bros. (Also Mfrs.), 85 Factory
 Semper, W. J.
WATERVLIET—Carr, Matthew J., 5th c 6th av
 Nolan, Michael W., 715 23d
 Preston, Richard W. & Son, 3d c 5th av
 Read, Thos.
 Sheehan, Thos. F., 18th nr 6th av
 Smith, Jno. T., 19th nr R R
 Young, Jas. T., 19th nr R. R.
WATKINS—Coughlin, John
 White, George R.
WAVERLY—Baldwin, H. J. & Son (Large)
 Higgins, J. J.
WEST BRIGHTON—(See New York City, Borough of Richmond)
WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
WHITEHALL—Edmunds, W. J.
WHITE PLAINS—Briante, Rocco
 Brown, Chas. F. & Son
 Emberson, John
 Higgins, Frank G.
 Holden, Patrick
 Locke, Wm.
 Miller, Geo. L.
 Richards, Tony
 Smith's, Stephen W. Son
 Sonberg, August
 Tucker, Frank
 Vermett, J. T.
 Waite, Emmet E.
WHITESTONE—(See New York City, Borough of Queens)
WOODBURG—(See New York City, Borough of Queens)
WOODHAVEN—(See New York City, Borough of Queens)
WOODMERE—Schiffmacher, Chas.
WOODSIDE—(See New York City, Borough of Queens)
YONKERS—Arnold, C. F. & Son, 58 N B'way
 Bark, Henry & Co.
 Brewer, W. B., 24 Poplar
 Bruce, Alexander, 357 Walnut
 Cahill, Daniel, Central & Yonkers av
 Chadburn & Edwards, 109 Linden
 Currie, Walter W.
 D'Ambrasio, Virgilio
 Dawson, Alexander A., 29 John
 Earl, Wm. J.
 Ferguson, Robert, 45 Victor
 Flagg Bros., 57 Armstrong av
 Flannery, P. J., 90 Vark
 Forsyth, Jno., 80 Livingston av
 Gower, Fielding, St. Andrews sta.
 Hall, Henry, 555 Van Cortlandt Park av
 Halsey & Bro., 6 Wells av
 Heapy, Abraham
 Herd, John, 49 Cornell av
 Hooper & Robbins
 Hoyt & Miles, 183 Linden
 Kearns & Hart
 Kelly, Geo. T., 14 John
 Kingsley & Maxwell, Riverdale
 Leidhold, Wm. C.
 Leonhardt, Matthews, 358 Ashborn av
 Lutkins, Andrew R., 165 Highland av
 Lynch & Larkin, 165 Riverdale av
 McCarthy Bros.

Mackay, K., 64 Main
 Mallison & Phillips, 17 John
 Mangini, Nicholas, 177 Waverly
 Marotta, Vincent, 112 New School
 Mee, F. B., 3 Bashford
 Molloy, Murray & Co.
 More, Abraham G.
 Myers, John M., 134 Beech
 O'Brien, Joseph, Lowerre Summit
 Pyne, Thos., 71 Fairview
 Quick, S. F., & Sons, 3 Atherton
 Rundle, Geo.
 Scott, Oliver John, 40 John
 Sherwood, J. F., 31 Cedar pl
 Smith-Corbett Co.
 Smith, Geo. A., 62 Cornell av
 Soeteman Bros., 4 River
 Stewart, Alfred K., 330 Hawthorne av
 Stewart, Robert L., 38 Wells av
 Sutherland & Cutbill, Fernbrook
 Sutherland, Spencer K., Lewis parkway
 Taylor & Dundon
 Thomas, Stuart W.
 Troy, Patrick G.
 Van Leuven, Fred. S.
 Walsh, Michael, 117 Palisade av
 Westervelt, E. N.
 Wood, Eber S., 40 Park Hill av
 Woodhouse, H., 9 Halcyon pl

NORTH CAROLINA.

ASHEVILLE—Davis, T. E.
 Kelly & Felthaus (Large)
 Revell, O. D. (Large)
 Reynolds & Erwin
 Smith, Geo. G.
 Westall, J. M. (Large)
BURLINGTON—Christian, L. C.
CHARLOTTE—Ahrens, F. W.
 Asbury, S. J.
 Cochrane, W. A.
 Finger, W. J. M.
 Gardner, J. A.
 Grandy, J. D.
 Hatch, J. H.
 Hauser, W. H.
 Hunter & Vaughn
 Jones, J. A.
 Maloney, J. N.
 Propst Contracting Co.
CONCORD—Probst, A. H.
DURHAM—Honston, R. B.
 Lawrence, I. G.
 O'Briant, P. P.
 Salmon & Salmon
 Smith, H. L.
 Stanley, J. B.
 Underwood, N.
 Wilkerson, O. F. & R. E.
ELIZABETH CITY—Elizabeth City Cons. Co. (Not Inc.)
 Hayman, L. L.
 Martin, J. W.
 Pearson, H. C.
GOLDSBORO—Angle, G. F.
 Fussell, T. J.
 Porter & Goodwin
 Waddell, L. J.
GREENSBORO—Bain, J. W.
 Central Carolina Contracting Co.
 Hoecker, Chas. W.
 Holladay & Crouse
 Hunt, J. T. & Co.
 Morris, J. C.
 Pleasant, W. R. & Co.
 Smith, John Y., 510 Arlington
 Watson, W. A.
 Waynick, J. J.
HENDERSON—Bunn, Robert
 Weaver, E. L.
HICKORY—Abee & Edward
 Elliott, J. D.
HIGH POINT—Baker, D. H.
 Hall, Dennis H.
 Montgomery, W. I.
RALEIGH—Barrow, W. B.
 Briggs, J. D.
 Ford Bros.
 Hill, D. C.
 Matthews, A. G.
 Moser, M. A.
 North Carolina Building & Supply Co.
 Snuggs, C. P.
SALISBURY—Martin, Geo. B.
 Propst, C. R.
WILMINGTON—Brady, R. H.
 Burriss, J. H.
 Furlless, Price
 Glenn & Robertson
 Rogers & Thomas
 Shad, Joseph
 Silvia, M. G.
 Spooner, J. W.
 Tyler, T. F.

WILSON—Killette, E. F.
Wilkins Bros.
WINSTON SALEM—Bowman, E. C. Co.
Fogle Bros. (Large)
Holt, J. H.
Lohman, Chas.
Miller Bros. Co. (Large)

NORTH DAKOTA.

BISMARCK—Lovin, Nils H.
Rhud, Hans C.
FARGO—Allen, Henry E.
Anderson, Geo. A.
Bowers Bros.
Edlund, Erick
Hogan, Andrew S.
Jensen, H. B.
Johnson, Anderson & Johnson
Kennedy, James
Pearson, W. D.
Porritt, C. H.
Powers, Thos. F.
Spear, J. M.
Wilson, Stewart
GRAND FORKS—Balles & Perkins
Brown, Fred. J.
Buchingham, Geo. W.
Dinnie Bros., 314 Alpha av
Elkhof, Jno., 206 S 3d
Hunter, K. C., 304 Int'l av
Moran, M. G.
Roberts, Robert E.
JAMESTOWN—Norton, W. A.
VALLEY CITY—Curran, W. J.
Lenhard, Edw.
MacDonald, Duncan
WAHPETON—Blanchard, Jno.
Northwestern Construction Co.

OHIO.

ADA—Anspach, D. M.
Rowles, Isaac E.
Sousley Bros.
AKRON—Carmichail, Geo. W. & Co. (Large),
Crisp, Jno. & Son Hamilton bldg
Dietz Lumber Co.
Fisher Bros.
Frederick, U. G. Co.
Henry & Patterson
Lyman, Hawkins Lumber Co. (The)
Marson, W. G. & Co.
Summit Cons. Co.
Star Planing Mill Co.
Summit Lumber & Building Co.
Weeks, F. H. Lumber Co.
Wilson, N. C. Lumber Co., 888 S Main
Windsor Brick Co. (Large)
ALLIANCE—Applegate, M. & Son
Boone, Robert M.
Devine, J. C.
Joliet, S.
Miller, E. L.
ASHTABULA—Warran, M. G. & Co.
ATHENS—Fenzel, Geo. L.
Kircher, C. P. & Co.
Nice, H. D.
Robbins, J. F.
Ward, Thos.
BARBERTON—Jackson Lumber Co.
BELLAIKE—Hallarbeck Contract Co.
Houston, A. L. (Brick & Stone)
BELLEFONTAINE—Coleman, H. F.
Defenbaugh, Wm.
Filson, A. R.
McLean, S. W.
Mitchell Contracting & Cons. Co. (The)
Parker Bros.
Shank, Chas. D.
Snyder, Mary E.
Sugrue, J. A.
Woodside, George M.
BLUFFTON—Althouse, Ewing & Co.
BRIDGEPORT—Lee, C. B. (Brick)
CAMBRIDGE—Bayless, H. J.
Forney, Chas. W. (Large)
Harris, J. M.
Hoyle & Scott (Large)
Jackson, James H.
CANAL DOVER—Hammond, Marion
Maurer, Chas. W.
Wentz, F. & Co.
CANAL FULTON—Biller, Dan
CANFIELD—Blim, G. & Son
Porter, A. S.
CANTON—Berdel, J. G., 434 N Smith av
Bostick, Cyrus S., 1227 S Cleveland
Bowen, C. E., 719 S Cleveland av
Brumbaugh, Samuel, 1521 E Lake
De Vault, James & Co., 187 Werts av
Downes & Campbell, 348 Prospect av
Goodman, W. W., 1206 S Market
Hadley, John K., 1036 N Market

Hill Bros., 1721 Cedar
Huff, K. E., 1528 S Market
Jones, H. R.
Landor, E. J., 1010 Marlon
Lenhart, J. G., 1607 N Cleveland av
Melbourne Bros. (Brick & Stone), 335 S
Metropolitan Cons. Co. (The) Cleveland
Shoof, Austin H., W 10th & B. & O. R. R.
Shoof, Wm. & Son, 1922 Tuscarawas
Skeels, John, 735 S Market
Stanffer, Daniel C., 617 Patterson
Van Kirk, J. L., 1231 Worley av
Whike, Geo. H., 1408 Woodland av
CARTHAGE—Hellmings, August & Co.
CHICAGO—Andrews, S. P.
Williams, W. A.
CHILLICOTHE—Banks, Jacob
Gartner & Riehle
Gerber, Jos. & Son
Litter Bros. 5th & Ewing
McIntyre, Jerome
Pfaff & Smith
Talbot & Son
CINCINNATI—Allard, A. A., 560 Delta av
Atkinson, Robert, 912 Race
Ausdenmore, Henry (Stone), 916 York
Aufdembrinke & Son, 19 W Canal
Babel, W. F., 1217 Freeman av
Bagley & Heeg, 2207 Victor
Bankers Cons. Co., 3 Union Trust bldg
Barr, W. B., 805 B'way
Beckmann, F. W., 716 Laurel
Behrens, Henry, 15 E Baker
Belmont, Louis, 2177 Gilbert av
Bentel Bros., 3250 Montana av
Blee, Edward, Roanoke Flats
Bockelman & Son, 1724 Freeman av
Bohne, Henry, 1767 Powers
Bohnen, Leonard & Sons, 3821 Tozzer
Boller, Louis, 1426 W Liberty
Bothe, Herman, 4211 Leeper
Britt, Chas. E., 509 Hopkins
Brockmann, John H., 1608 Logan
Broeman, Frank, 3140 Goff av
Burke, John, 407 E 5th
Casey, Lawrence J., Builders' & Traders' Exchange
Clark, Augustus H., Builders' & Traders' Exchange
Colter, Archibald, Grand Opera House bldg
Cottarall Building Co., 5th & Main
Cramer, W. T. V., 15-16 Wiggins blk
Dale, J. C., 220 E 6th
Dauch, G., 2924 Vaughn
Desch, A. & Co., 2806 Scloto
Dimmick, D. R. P. & Co., 53 Pickering bldg
Drake, C. F. & Son, 1678 Hofner
Dratt, George, 2725 W 6th
Easley Bros., 18 W 7th
Eberhardt, G. A., 19 Wiggins blk
Ellis, W. H. & Co. (Large), Mitchell bldg
Evans, Evan (Brick), 1226 Ida
Evans-Reudigs Co., 2017 Reading rd
Fairweather, G. M., 820 Locust
Farrell, G. A., 765 Kenyon av
Farrell, P., 8th & Plumb
Feller, John J., 2429 Vine
Flynn, Wm. P., Chase av & Daue
Forshee, W. E. & Co., Builders' & Traders' Exchange
Fox, C. E., 2216 Reading rd
Fuerst, Cornel & Son (Brick), 2287 Vine
Gehred, N., 645 Neave
Gerke, John, 2338 Wilder av
Gest, G. M., 1122-24 Union Trust bldg
Gillfillen, Samuel, 4215 Turrill
Glassmeyer, Jos. St. Clair, 2719 Hackberry
Glassmeyer, Jos. J., 544 Hopkins
Glazer, W. A. & Co., Hurlburt blk
Goldkamp, Albert, 1706 Madison rd
Goldkamp, Louis, Builders' & Traders' Exchange
Goodman, John & Co., 2133 Florence av
Green, W. T. & Co., 217 E Pearl
Griffith, Jas. & Sons, Reading rd & E 12th
Hallfelder, John, 233 W McMillan
Harders & Joehnk (Brick), 434 W McMicken
Harlig, Henry & Co., 31 E 4th av
Harvout Bros., 606-7 Mercantile Library bldg
Hazen, L. P. & Co., Reading rd & Elsmore
Heck, A. R., 1704 Queen City av
Heffron, Wm. Cons. Co. (The), 810 Neave
Helster, Peter, 231 Main bldg
Helmig, Wm. H., 2030 Eastern av
Henkel, August J., 703 Mercantile Library bldg
Henkel & Sullivan, Mercantile Library bldg
Herman, Henry, 1673 Blue Rock
Hlener, Anthony, 2958 Colerain av
Hirschfield's, Theo. Sons, 1040 Straight
Hoke Bros., 13 Allen bldg
Iliff, Chas. E. & Bro. (Brick), 314 E 6th
Holtzlineer, H. E., Builders' & Traders' Exchange
Hotchkiss, Elsha, 1220 Oak av
Hummel, David Building Co. (Large), 2629 Spring Grove av

Hunt, Geo. A., 954 E McMillan
Jewell, John A. & Son (Brick), 1612 Hopple
Kalser, A. & Son, Corbett av S of Ferris av
Keystone Cons. Co., 1113 Traction bldg
Klewit, John, 1115 Queen City av
Kirchner Construction Co., 8th & Plum
Langhorst, Fred., 1907 Western av
Leeds, W. C., 2915 Observatory av
Lelmann, Wm. & Bro., 2303 Clifton av
Lindemann, J. H., 2615 Jefferson av
McDermott, Joseph, 2521 Essex pl
McGarvey-Holiday & Co., 32 Thomas bldg
McLennan Bros., Pickering bldg
McMiller & Taft, 1308 Central av
Maloney, Thos., 1858 Forest av, W H
Marcus, M., Building Co., 1515 Plum
Mason, Geo. E. (Brick), 129 Builders' & Traders' Exchange
Meier, Edward, 3555 Montgomery pike, Evanston
Meinken, Dietrich, 2118 Western av
Meyer, Anthony, 832 Laurel
Meyer, Wm., 2623 Fenner
Miles, Eugene, 3837 Edgewood av
Miller, Wm. & Son, 2020 Elm
Mills & Ott, 216 George
Murr, Samuel, 68 Race
Nicholson Bros., 1st National Bank bldg
Otte Building Co. (Not Inc.), 2010 Linn
Otte, Fred, 1924 Western av
Parker, Noah & Son, 1016 Purcell av
Payne & Co., 631 W Court
Peacock, Samuel D., 12 E Commerce
Pickel, Peter, 30 Goodman
Planitz, A., 1504 Linn
Plump, G. H. & Sons, 1415 Mansfield
Price, John, 1450 Eastern av
Quill & Poes, 918 Morris
Rawlings, C. A., Builders' & Traders' Ex.
Reuwer, Fred. H., 1831 Sycamore av
Rhea, Al., 1812 Langdon av
Roche-Brunner Building Co., 4th Nat. Bank
Rolfes, John, 222 E 12th bldg
Rosenstiel, Chas., 606 Reading rd
Ruebel Bros., Atlas Bank bldg
Schardt, August, 2234 Victor
Schloss, A. & Son, 304 E 3d
Schmitt, J. B., 216 E 6th
Schmitt, J. J., Observatory av c of Herschel
Schuberth, Wm., Jr., 239 Mill av
Scully Cons. Co., Builders' & Traders' Exch.
Sheridan, Kirk Cons. Co., Mer. Lib. bldg
Specter, Samuel, 1991 Central av
Steinbicker Bros., 953 W Court
Strack, Thomas P., 31 Goodall bldg
Sulau, Geo., 4234 Dane
Vondebrinke, Theo. & Co., 1701 Montrose av
Waldron, L. W., 220 Post sq
Walton, Reuter & Co., Pickering bldg
Webb, Lincoln M., 703 Mt. Hope av
Weber, Adam, 4220 Spring Grove av
Weddig, A., 703 Mt. Hope av
Werdman, H., 1075 Grand av
White, Thos. C., 705 B'way
Willey, F. B., New Richmond pike
Willey, W. C. & Sons, 1211 Herschel av
Wilson, Jas. B. Concrete Co., 1st National Bank bldg
Woodward, W. & F. H., 817 Elberon av
CIRCLEVILLE—Fosnaugh, Henry W.
Hoffman, Frank
Reichelderfer Bros.
Salter, W. K.
CLEVELAND—Allen, Wm., 1229 Chestnut, N E
American Cons. Co., Rockefeller bldg
Austin, Samuel & Son Co., 4401 B'way, S E
Beers & Doolittle, 716 Society for Savings
Brightmore, Geo. J., 415 Champlain av, NW
Cleveland Cons. Co., Citizens bldg
Collier, H. G. Co. (Not Inc.), 319 Garfield bldg
Connelly Cons. Co. (The J.), Schofield bldg
Dall, A. & Son, Lennox bldg S W
Dunbar, Wm. & Co., 511 Champlain av, NW
Enterprise Paving & Cons. Co., 202 American Trust bldg
Fath, C. H. & Son Construction Co. (Brick & Stone), Electric bldg
Gill, John & Sons (Large), Citizens bldg
Griese, D. C., & Walker Co., 1417 Prospect S E
Harris, Wilson & Son, 1897 W 3d, S W
Holbeck Co. (Not Inc.), 924 Rockefeller bldg
Hunkl Bros., Cons. Co., Cuyahoga bldg
Lease, Chas. W., 3704 Kelly
Lindhorst, F. & D., Superior bldg
McAllister, Wm. B. Co., 2165 E 31st, S E
McMillan, Geo. B., 313 Bangor bldg
Marthey Plaster Co. (The), 2181 E 82d
Masters & Mullen Cons. Co., 858 Rose bldg
Moore, Wm., 1375 W 2d, N W
National Co. (The), 505-6 Williamson bldg
Reaugh Cons. Co. (The), 516 Garfield bldg
Rutherford, Geo. A. Co., 2060 E 4th
Skeel Bros., 1656 Columbus rd, N W

Slatmyer, Henry G., 203 Lakeside av, N W
Standard Contracting Co., Wade bldg
Stevenson, F. D. Contracting Co. (Large)
The Arcade
Stroug, C. H. & Son, Cuyahoga bldg
Stroud, E. G. Co. (The), 1023 Rose bldg
Tuttle, I. D., Blackstone bldg
Vanderwerf Co., 1234 Chestnut, N E
Warren, Jay B., 600 Champlain, N W
Water Works Cons. Co. (The), 727 Citizens
bldg
Webber, B. T. Co., 2350 Franklin av A
Williams Bros. & Morse Co. (The), Build-
ers Exchange
Wilson, John, Independence rd
Younger & Farmer, 2273 E 71st, S E
COLUMBUS—Abbott, N. B., 85 N High
Armentrout, Harry C., 451 E Rich
Barton, E. H., 51 W Frambes av
Beard & Jacques, 259 S Pearl
Beasley, L. F., 664 S Champion av
Beckett, E. E., 674 S Ohio av
Berry, Eli, 1987 Tatnick boul
Blair, Jos. F., 1718 Bryden rd
Bolin, B. F., 1367 Wesley av
Boyer, Adam, 2 High n of N B'way
Braun, John, 564 E Fulton
Broomhall, T. W., 1217 Hunter av
Brown, F. A., Jr., 216 Marshall av
Brush, J. D., 27 W Northwood av
Bues, Frank E., 107 N Washington av
Burkett, D. C., 509 Linwood av
Burns, M. J., 40 Board of Trade
Callahan, Thos. R., 434 E Loug
Capell, Thos., 2586 Terrace av
Carruthers, W. J., 1232 Madison av
Cherry, Wm. W. E., 40 W Main
Cockell, Harvey, 200 W 10th av
Coleman, J. H., 57 W Park av
Collins, Walter, 199 N 21st
Coulter, J. B., 2198 N 4th
Cranston, Walter H., 81 W Frambes av
Cull, Patrick C., 247 N Garfield av
Culp, Hy. N., 1413 Oak
Dennan, Chas. W., 860 Dennison av
Duvall, Leroy M., 1159 E Long
Eisele, Wm. & Co., 767 S 27th
Elevier, A. E., 175 S Scioto
Erfurt, Fred'k., 1067 City Park av
Ewers Bros., Vine & Armstrong
Ewers, Thos. G., Spring & Dennison av
Fletcher, C. H., 1439 Cole
Francis, Albert, 225 N 17th
Fravel, Sereno, 70 N 21st
Fuller, W. N., 546 Linwood av
Garrison, C., 1471 Michigan av
Good, Jacob, 562 E Main
Goss, Chas. O., 1048 W Broad
Gray, Stanley E., 1105 Fair av
Grube, F. A., 43 E Innis av
Hagerty, John D., 252 S 18th
Hall, E. M., 455 S Champion av
Harding, Michael, 762 Hamlet
Heekart, John W., 1111 Michigan av
Helser, John, 710 Gilbert
Henton Bros., 68 E Russell
Hetrick, L. D. & Bro., 749 Wilson av
Hibbs, E. K., 735 Columbus Trust bldg
Hina, J. H., 711 Oakwood av
Horlocker, John W., 1601 Granville
Hummel, John, 846 S 5th
Isabel, J. B., 215 E 9th
Isabel, S. J., 137 W 10th av
Jaeger, Otto, 396 Parsons av
Jaquith, Louis W., 215 Hayden bldg
Jones, Isaac O., 707 Grove
Jones, Morgan, 546 E Long
Julian, V. S., 1085 Hunter av
Kammacher, G. H., 7 Auburn av
Klentz, Jno., 788 S 5th
Kling, G. W., 46 16th av
Knight, Robert, 262 St. Clair av
Kuhn, Winfield S., 1248 Penna. av
Kuhnheim, John, 902 Mohawk
Kuntz, J. E., 171 N Monroe av
Lang, E. & C. (Stone), 551 S 5th
Latham Cons. Co. (The)
Lawler, Thos. C., 769 W Town
Lawson, Robt. (Stone), 1134 N High
Lawson, Wm. O., 14 W Frambes av
Lohrer, Jacob, 333 E Mount
Lucas, John H., 2438 W Broad
McAllister, Chas. A., 86 Miami av
McCarty, John, 1324 E Broad
McGrath, D. W., New 1st Nat. B'k bldg
McNeols, H. S. & Son, 525 Germania
McVey, Edward L., 1947 S 9th
Maxwell, Allen O., 257 E Germania
Merkle, Wm., 625 S 5th
Mitchell, J. M., 529 W 4th av
Mohing, J. T., 1394 Oak
Mueller, H. W., 662 S Briggs
Neely, S. G., 545 Hill av
Nunemaker, Jas. P., 48 Avondale av

Ohio Realty & Cons. Co., 1006 Capitol Trnst
Owston, Thos. F., 961 Highland bldg
Platts, Adam, 36 W Tompkins
Plemmer, Richard, 1188 Oak
Poppenhager, J. J., 156 Mithoff
Richter, Henry, 711 S Front
Roberts, D. W., 79 N 21st
Roberts, W. A., 321 Reeb av
Rnsinger, Jacob, 735 S 5th
Saum, Israel C., 197 N 18th
Sauter, Frank, 658 Lathrop
Schillinger Bros. Co., 40-41 Douglas bldg
Schirtzinger, Frank X., 705 New York av
Schlapp, P. A., 1183 S High
Schneider, C. W., 632 Linwood av
Seliger, J. N., 685 S 3d
Shaw, Harry J., 609 Outlook bldg
Sisco, Albert A., 180 N 21st
Skinner, W. D., 83 W Maynard
Smith, Bert F., 216 Lexington av
Snider, Jas. E., 603 E Monnd
Spencer, David, 244 W 9th av
Stevens, B. F., 996 Bellows av
Stirgwaldt, John, 1953 Mt. Vernon av
Street, Milo P., c Clark & Windsor avs
Stropes, Jas. A., 369 Charles
Sturm, L. E., 310 (The), Wyandotte
Stutson, J. W., 642 E Main
Sullivan, B. F., 667 W Town
Sweeney, John W., 894 E Livingston av
Thompson, Wm. H. & Son, 56 N Skidmore
Tonkinson, Chas. W., 93 Dakota av
Trapp, Geo., 280 Germania
Tuggle, Chas. H., 89 Midland av
Walter, Bert, 361 Bottles av
Watson, Wm., 307 W 9th
Wells, Robert E., 766 Sullivan av
Westwater & Casey, 701 Wyandotte bldg
Winters & Farrington, 214 McCune bldg
Wise, O. P., 1170 Mt. Pleasant av
Wright, R. Clark, 80 N High
Wygant, Clarence, 604 E Mound
COSHOCKTON—Boch, Geo. J. & Son
Burrell, T. H.
Kissner, J. N.-Sons Cons. Co. (The)
Norman, Thos. J.
Richards, Jacob
Shaw, John L.
Willimas, S. M.
CUYAHOGA FALLS—Bates, A. R. & Co.
Falls Lumber Co. (Large)
DAYTON—Alger, Amos A., 11 Cass
Backus, T. J. Cons. Co., Reibold bldg
Baren, John W., 34 S Huffman av
Beers, L. B. & Bro., 18 E Pioneer
Colonel Cons. Co. (The), 278 Arcade
Couch, R. L., 1528 W 3d
Dayton Cons. & Engineering Co. (Not Inc.),
403 Conover bldg
Ditzel, Henry F., Bickham nr Linden av
Dover, Samuel B., 1600 S Wayne av
Fauver & Renick, 71 Callahan Bank bldg
Hager, Henry M., 120 S Campbell
Hall-Kepple Co., Davis
Hawker, David, 454 S Quitman
Hicks, Geo. B., 915 U. B. bldg
Hilt, Wm. A., 21 S Charles
Hosket Bros. & Waltz, 25 E Union av
Hosket, Chas. F. (Brick), 662 E Richard
Julick, Theo. & Son, 50 W Howell av
Kemper, A. F. (Brick), 245 S Morton av
Law, L. L., 511 Valley
Luyster, W. W., 915 U. B. bldg
McCarthy, Wm. & Co., 302 Gibbons Areade
Minnigan, P. W., Brnen & Longworth
Parish, E. K., W 3d
Reasar, O. M., 210 W Leroy
Rehling, Wm., 2518 E 3d
Rouzer, John Co. (Large), 71 S Wyandot
Shoup, J. O. & Co., U. B. bldg
Talbot, H. E. & Co., Reibold bldg
Teigler Bros., Patterson bldg
Tejan, Frank, 14 Edgar
Wehner, Jos., 121 W Ziegler
Worrell, C. E., Eaker & Longworth
Wroe, A. & Son, 449 N Grafton av
Wysong, Jacob, 416 S Summit
DELAWARE—Challen, L. H.
Dent, J. H.
Hessey, H. D.
Long, Wellington
McDonald, James
Riddle, Chas. W.
EAST LIVERPOOL—Cain, Jno. C.
Hill & Wallace
McHenry, Harvey
Nease, C. & Co.
Phillips, Geo. J.
Rinehart Bros.
EAST PALESTINE—Hofmeister, J. C.
FINDLEY—Duttweiler, F. W.
Folk Bros.
Horne, Geo. J.
FRANKLIN—Roof, Wm. S.
FREMONT—Wolfe, C. M.

GALLIPOLIS—Danner, J. E.
Duvall Bros.
Leonard, M. F.
Mullineaux Bros.
Wigner, Jno. H.
GREENFIELD—Hallam, Jas.
GREENVILLE—Beanblossom, Thos.
Clark, Chas.
Clark, S. J.
Fry, W. S.
Irwin Bros.
McKeon, C. S.
Medford, G. C.
Neiswonger, A.
Webster, N. B.
HAMILTON—Bender Co. (Large)
Boaz Pattern Works
Davis, Frank J.
Eisel, C. F.
Graver Transfer & Cons. Co. (The)
Kinch, Frank
Lingler, Geo., 322 Hanover
Loutham, W. H. & Co.
Riegler, J. C.
Ross, John L. (Large), 218 Sycamore
HILLSBORO—Hern & Lepley
IRONTON—Akers, Thos. C.
Black, S. G.
Cook, H.
Dyer, E. B.
Francisco, H. M.
Francisco, J. H.
Fugitt, W. H.
Hall, F. Mack
Hall, T. B.
Ironton Cons. Co. (The)
Mulligan, M. A.
Schweickart, Wm. L.
Tri-State Improvement Co.
Wileman, Jas.
Wileman & Hebling
JACKSON—Bierley, Sherman
Brown, H. M.
Eisnagle, Bros.
Hankle, Jno.
Long, Lewis
KENTON—Burkart, Jno.
McArthur, D. H. & Co.
McGill & Lambert
Scott, John S.
LANCASTER—Brooks, Albert H.
Crook, J. Carl
Gelser, Jacob
Gray, Jos. H.
Henry, R. F.
Justus, C. F.
Kober, Wm. H.
Manger, M. F.
Mowery & Darbyshire
Older, Geo. W.
Schmelzer, Blase
Strachan, Wm.
LEBANON—Hopping, W. H.
Monroe & Johnston
LIMA—Heil, Valentine, c Enreka & Jackson
Ruhlen & Miller, 122 E Wayne
Smith & Sherrick, W., 161 E Eureka
LISBON—Forse, Geo.
LOCKLAND—Wilson, W. A.
LOGAN—Stephens, Chas. H.
LONDON—Carter & Foster
Iliff Bros.
MADISONVILLE—Boyd, J. W. & G. M.
Cornelle & Linder
Gomien & Settle
Grosse, C. Chas.
Haas, Alfred
Mathis, Daniel (Brick)
MANSFIELD—Berry, Chas. V. (Large)
MARIETTA—Connor & Battersby
Dickson, Beardsley & Foreman
Dowling, C. W.
McHugh, J. F.
MARION—Apt, J. F.
Beringer, Jno. E.
Brady, A. G.
Brady, O'Connell
Carroll, Thos. J.
De Lander, L. H.
Drake & Son
Hoffstetter & Dawson
Hummer Cons. Co.
Kelly, P. & Co.
Kinsler, J. H.
Lefler & Bland (Large)
Molloy, D. F. & Bro.
Moon, E. S.
Murphy, Jos.
Orr, Geo. B.
Shaw, M. W. & Co.
Stafford, W. C.
Wooley, W. C.
MARYSVILLE—Fleck, E.
Kennedy & Milliee
Sharer, D. & Son

Traey, T. C.
Weldman, W. R.
Welch & Jones
Wood, Hylas
MASSILLON—Converse, Emll
Diefenbacher, Philip & Son
Vogt, W. H. & Sons
Wendling, A. F.
MIDDLEPORT—Beeson Bros.
Bolce, Hollis
Talbot & Lindsay
Wise & Beach
MIDDLETOWN—Bauers, Henry
Caldwell & Isenlanger (Large)
Denny, Chas (Large)
Dome, Geo.
Dorne, Henry
Fresh, E. L. & Bro.
Gingerich, David
Gingerich & Lanier
Jacobs, Stephen R.
Kilgour, James R.
Mininger, Wm.
Smth, Wm. & Co.
NELSONVILLE—Hill, Jno.
Landis, B. F.
Vorhes, Chas.
Vorhes, W. H. (Brick & Stone)
NEWARK—Abbott, J. T.
Bope, E. E.
Cramer, Melville
Cripps, S. E.
Davis, A.
Debard, Hugh
Fristoe, S. B. & Son
Hamclback, J. H.
Hannan, J. H.
Hawkins, O. J.
Jones, B. B.
Kinney, F. H.
Linn, Jas. C.
Palmer Bros.
Phillips, P. S.
Robb, Marlon
Shauck, Edgar A. (Large)
Smith-Cramer Cons. Co. (Not Inc.)
Taylor, D. J.
Wagenheim, M. J.
Wells, W. C.
Whitehead, E. F.
NEW COMERSTOWN—Brodie, W. J.
NEW PHILADELPHIA—Dick, Chas.
Doughnerty, O. O.
Rapp, Geo. D.
Springer, Leroy
Thompson, Wm. M.
NILES—Mango, V. & Co.
Niles Lumber Co.
NORWALK—Carpenter, W. G.
Clark, E. E.
Evans, J. M.
Leimann, F. G.
McBee, John
McCohn, C. D.
Massman, Anton & Son
Murdock, Geo. W.
Rohling, Henry A.
Snyder, John
NORWOOD—Baker, J. M.
Eyre, Louis
Greilwe, E. R.
James, O. A.
Kleine, F. G.
O'Brien, J. T.
Rottman, Herman
Stagge, Henry
PIQUA—Anderson, Jno. H.
Cramer, Grant
Fry, A. M.
Phillips, Fred. & Son
Richardson, O. W.
POMEROY—Bauer, George (Brick & Stone).
Kautze, Abe J.
PORT CLINTON—Bertsch, Edward
PORTSMOUTH—Bradley, Wm.
Dawson, Richard L.
Donaldson, W. W.
Goodrich, B. F.
Gustin, D. W.
Hossman, Henry
Kaps Bros.
Kelly Bros.
Mann, Thos. O.
Mead, Isaac F.
Monroe, Samuel & Son
Nave-Ryan-Curtis Cons. Co.
Pfeiffer, E. W.
Pratt, Wm.
Smth, Joseph L.
RAVENNA—Frank, P. L.
ST. BERNARD—Espel, Jas. F. (Stone)
SALEM—Buell, Samuel
Jessup, Jas H.
Kille, E. I.

SANDUSKY—Doerzbach, Geo. W.
Feick, Geo. & Co., Central av
Webber, John P., 802 Central av
SIDNEY—Altenbach, Jas. & Son
Fisher, Geo. D.
Loudenbach, S. L.
Orr & McCune
SPRINGFIELD—Atly, Raymond W., Limestone
& Leffel la
Bartholomew, O. N., Cliff e Cedar
Berry, E. W., 53 Fisher
Bird, Chas.
Bolan, Joseph (Stone), 72 Kenton
Boss, Jos. A.
Branuan, Thos. (Stone), 177 S Spring
Clark, S. G. & Sons, 78 W Main
Crst, W. L., Jr.
Dalle, J. H., North e Spring
Gladfelter, Ryburn R., 296 W North
Hern, W. J., 674 S Limestone
Hinckle, Jacob A.
Houlton, S. B.
Keith, Chas N.
Morningstar, W. F.
Mumma, C. E.
Numberger, Wm. F., 418 Lagonda av
Poole, Wm., 77 W Pleasant
Ports, J. S.
Poss, Anthony, Limestone & May
Reeder, John D.
Seiver, Wm. R., 90 S Western av
Taylor, S. S.
Wilbert Building Co. (Not Inc.)
Yost & Sullivan
STUBENVILLE—Burke, Thos.
Flote Bros. (Stone), 556 N 7th
McDonald, A. W.
McFeeley Bros.
Myers & Stewart
Nicholson, Ed.
Pawiance, Thos. H.
Still, Jno. R.
Yocum, C. M.
TIPPECANOE CITY—Tipp Building & Mfg. Co.
(Large)
TOLEDO—Bentley, A. & Sons, 37 N Huron
Browne, L. F., The Spitzer
Kerlin Bros. Co. (The), 602 The Nashby
Maumee Wrecking Co. (The), 369 S Erie
Toledo Building Co. (Not Inc.)
Toledo Cons. & Supply Co., Nicholas bldg
TROY—Dietz, M. T.
Dilts, Milton T.
Hennessey Bros.
Pearson, Willis A.
URBANA—Creager, C. E.
Dickerson, Louis
Poffenberger, Ira
UHRICHSVILLE—Lickey, J. H.
Westlafer, Philip H.
WARREN—Bullus, Benj.
Coe, Thos. R.
Watson & Sutherland (Brick & Stone)
Wilkins, R. S.
WASHINGTON C. H.—Barber, D. J.
Hammer, W. H.
Williams, Jas. R.
Wilt Bros.
WELLSVILLE—Aughinbaugh, H. C.
Forbes, Jas. A.
Murdock, G. F.
WESTERVILLE—Karg, H.
WILMINGTON—Custer, Albert
Doyle, Jno.
McCullum, Frank
Shepard & Sons
Thompson, Jno. H.
Wakefield, J. J.
XENIA—Anderson, Horace
Berry, T. E.
Dice Bros.
Farrell, Jno.
Griesbaum, Jos.
Lyod Contracting Co. (Not Inc.)
McCurran Bros.
McCurran & Son
McGarry, Jno. C.
Owens, Thos. C.
Rader, E. C. (Brick)
Spahr, A. J.
Thornhill Bros.
YOUNGSTOWN—Beede, Theo. G.
Frolund, M. W., 2 Woodland av
Frush, Marcus L.
Heller Bros. Co., W End Raven av
Hersey, Geo. D.
Hess, D. F.
Hillman, A. D.
Joyce, M. J.
Lightbody, Thomas M. (Large)
Loney, John
Long Bros. & Co.
Mahoning Lumber Co.
Mauser, Christ., 25 N Walnut
Merrian, W. F.

Miley, A. S.
Niedemeier & Restle
Palmer, W. H. Co.
Peat, W. R.
Sprague, P. E., 566 High
Thomas, J. O., 731 Thomas
Tibbits, B. C. Lumber Co.
Vogelberger Bros.
Williams, O. D.
Young, Arthur G.
ZANESVILLE—Atkinson, C. L.
Clifton Bros.
Denny Bros.
Dunzweller Bros.
Evans, R. H. & Co., 622 Main
Frazier, Wm. S., 247 Ridge
Fritz Bros.
Handshy, W. C., 248 Ridge
Hoffman, S. W.
Humphrey, J. C.
Israel, F. L., 451 Moxahala
Linn, J. W., 32 Hall
Marple, O. H.
Mast, Emanuel E., Green av
Nesbit, J. H.
Price, J. D.
Townsend, F. M.
Townsend, T. B. Co.
Vinsel Co., Brighton boul
ZIMMERMAN—Lantz, Geo. W.

OKLAHOMA

EL RENO—Buse, E. E.
Gilligau, John
Gilligan, T. G.
Ellsworth, J. E.
Hubbard, J. C.
Kilipke, A. C.
Leak, Mack
McDonald, V. H.
Newsome, Robert
Riley, W. H. & Co.
GUTHRIE—Brickner, J. T.
Keunedy & Cotton
KINGFISHER—Sackler, Chas. E.
MUSKOGEE—Municipal Contracting Co. (The)
OKLAHOMA CITY—Anderson, T. R. Cons. Co.
Duemcke, Albert
Powers, J. C.
POTEAU—Terry, J. S. Cons. Co.
SHAWNEE—Shawnee Cons. Co.
SPIRO—Holt, W. S.
TAHLEQUAH—Alston, Wm.
TALIHINA—Root, W. J.
WOODWARD—Faira, C. R.
Hansen, J. H.

OREGON.

ALBANY—Hadley, I. F.
ARLETA—Berger, F. W.
ASHLAND—Payne, E. C.
ASTORIA—Birch & Jacobson
Edison, Jacob
Fastabend, J. A.
Ferguson & Houston (Large)
Frederickson Bros.
Goodwin, W. A.
Gustafson, E.
Hartwig, Ludwig
Lebeck, Leander
Mattison, John
Miller, William
Palmberg, C. C.
Wilson Bros.
BAKER CITY—Grant, Thos. E.
White, J. C.
BARLOW—Andrews, John A.
BONANZA—Pattee, Chas.
BOYD—Clark, Neal
CLATSKANIE—Hiatt, J. P. & Sou
McKay, I.
DOLPH—Steinmassl, Joseph
EUGENE—Heckert, W. O.
Lombard, A.
McFarland, V.
GARFIELD—Davis, J. J.
Palmateer, J. H.
GLENADA—Colter, G. H.
GRASS VALLEY—Claxton, T. J.
HARRISBURG—Canter, M. W.
Scott & Stephens
HEPPNER—Hill, Wm.
Johnson, Henry
HOOD RIVER—Frederick & Arnold
Stranahan & Slaven
Wright, J. M.
JACKSONVILLE—Ficke, Fred. J.
JUNCTION CITY—Linder, H.
LA GRANDE—Haworth, S. R.
Krieger, George, Jr.
Slater, J. L.
LAIDLAW—Hall, Wm.
Updyke, G. W.

LAKEVIEW—Handley, James
 LEXINGTON—Davis, W. G.
 LOGAN—King, Foster H.
 McMINNVILLE—Setters, Jacob
 MAKSFIELD—Holland, Wm. W.
 McGann, F. G. & Sons
 Marshfield Girdiron & Cons. Co.
 MEDFORD—Gray, R. W.
 Medford Brick Co.
 MIDDLETON—True, C.
 MILTON—Wormington, Frank
 MILWAUKEE—Birkemier, F.
 Kerr & Spindler
 Snyder, J. M.
 Totes, T.
 NEWPORT—Flowers, A. F.
 Flowers, J. W.
 Sheffield, C. E.
 OAK GROVE—Bentley, L. E.
 OAKLAND—Miller, T. T.
 ONTARIO—Draper, J. A.
 PAISLEY—Woodward, J. C. & Son
 PARKPLACE—Peckover, H.
 PENDLETON—Boothby & Hale
 Gibson & Cole
 Harlow, E. E.
 La Dow, Geo. I.
 OREGON CITY—Baker, F. S.
 White Bros.
 PORTLAND—Beat, Robt. B., 453 Washington
 Bingham, Jno. (Brick & Stone), 5th & Adler
 Bingham & McClelland
 Bridges, J. B.
 Brooks & Downing
 Camp, Herbert L.
 Currier, R.
 Donaldson, G. W.
 Findley, Flex
 Freeman, M. E.
 Friberg Bros.
 Gallagher, J. H. & Co.
 Gangloff, Flynn & Co.
 Gardner & McLennan
 General Contracting Co.
 Gensch, K. H.
 Gieblisch & Joplin, Labbe bldg
 Gledhart & Tanbert
 Gordon, G. W., 208 4th
 Green, T. C.
 Grieder, John
 Griffith, J. H.
 Griffith, Frank S.
 Grimshaw, Henry W.
 Hand, John F.
 Hobkirk, Peter
 Holmes, J. W. & Co.
 Horn, I. D.
 Howard, Harry A.
 Hughes, N.
 Hyland, James
 Keenan Bros. Co.
 Kilgreen, J. G., Chamber of Com. bldg.
 Krimble, Jacob
 Langford & Walker
 Lewis & Lewis
 Litherland, F. L.
 Lynds, E. A.
 Lystrup, Max
 McInnis & Reed
 McKenzie, A. M.
 Madden, W. J.
 Marshall, James I.
 Melton, J. A., 204 4th
 Merchant, J. M.
 Millard, F. A. & Co.
 Muir, Alex.
 Multnomah Mill & Cons. Co.
 Nash Bros.
 Nelson & Rlding
 Neylon, Ed. M.
 Northwest Investment & Cons. Co.
 Oliver, G. W.
 O'Neil, John R.
 Palmer & Eliison
 Peterson, A. F., 52 Lucretia
 Phelps, S. E.
 Pinckney Bros.
 Preston, P. A., 334 Stark
 Reder, E. W.
 Richardson, J. J.
 Riner, R. M.
 Ryan, Edward
 Ryckman, Peter A.
 Seed, John S.
 Shorno, L. C.
 Simpson, Fred. M.
 Sinclair & Slms
 Smith, B. F.
 Smith, Geo. D.
 Smith, H. N.
 Snyder, J. H. & Son
 Standard Cons. Co., Sherlock bldg
 Steele, W. B. Cons. Co.
 Stewart & Winslow, 330 Couch
 Stokes, Wm. R. & Co., 109 Grand

Sweeney, J. W.
 Velguth & Pierce, 375 Holladay av
 Wallace, J. M.
 Williams, James O.
 Wisler, Peter L. G.
 SALEM—Dalrymple, W. H.
 Erb, Ira
 Headrick, A. L.
 Hewitt, Joel
 Jory, Oliver
 Mourer, Geo. C.
 Nelson, Jno.
 Snook, Herman
 Southwick, A. M.
 Southwick, F. B.
 Veatch, J. P.
 Welch & Mourer
 Young, J. W.
 SEASIDE—Davis, T. A.
 SPRINGFIELD—Chezen, John R.
 Innis, J. B.
 Walker, Herbert E.
 THE DALLES—Fox, G. B.
 Maxon, R. D.
 Tyler, F. C. & Co.
 WILLAMOOK—Brodhead, Sam. A.
 Morris, W. A.
 UNION—Nowell, T. G.
 VERNONIA—Sessman, R.
 WAMIC—Pratt, C. E.
 WILSONVILLE—Boeckman, H. F.
 Chalupsky, Jos.

PENNSYLVANIA.

ALLEGHENY—Aitkenhead, Wm., 122 Irwin av
 Alston, A. & Son, Penn & Grant avs.
 Beatty, W. D., 900 W Diamond
 Blendinger, Fred. A. (Brick), 824 O'Hara
 Bruggeman, P. F. & Co., 502 Avery
 Cochran & Davis, 104 Erie, W. A.
 Cochran, G. A. & Co. (Large), 1210 Wash-
 Fauble, P., 307 Arlington av ington av
 Gwinner, Fred'k, 1801 Market
 Hays Bros. & Dodds (Large), 2050 Chartiers
 Keown & Tootill, 215 Park Way
 McCain, S. H., 1300 Veto
 Tannehill, R. C. Son (Large), 1315 Federal
 Trimble, John H. & Bro. (Large), 2022
 Chartiers
 Trimble, W. F. & Sons Co., 1719 Greenwood
 Victor Cons. Co., 1514 Franklin
 Wherry, Jas. & Co. (Large), 857 W North
 Wissner, Henry, 1715 Washington av
 ALLENTOWN—Albright, A. A. & Son
 Gangemere, W. H. (Large), Young bldg
 Hardner, Geo. H.
 Heimbach, H. T.
 Huber & Son (Brick), 514 N 7th
 Kline Bros. & Co.
 Lawfer, J. Harry (Large), 27 N 8th
 Moyer, Wm. P., 528 N 6th
 Ochs, Milton T. J. (Large), 450 Wire
 Ritter & Smith (Large)
 Shoemaker, G. W.
 Snyder, Joseph P.
 Weaver Contracting Co.
 ALTOONA—Altoona Construction Co. (Large)
 Bartley, C. B. & Sons (Large)
 Brancher, Elmer
 Burket, A. M.
 Counsman, D. & Son (Large)
 Elder & Cassidy (Large)
 Fickes, H. & Son
 Finn, Peter W. (Large)
 Fiseill, J. T.
 Fleck, J. S. (Large)
 Fluke, J. B.
 Gulick, Lorenzo D.
 Herr, W. H. (Large)
 Hersh, A. J.
 Hess, Harvey A.
 Hinkle, H. G. (Inc.)
 Hoffman, S. R.
 Ivory, J. C.
 Latchford, P. A.
 McAllister, Daniel W.
 McFadden, J. W.
 McGinley, John B.
 Mackey, Leroy B.
 Nichols, S. R.
 Orner, Martin V.
 Orr, J. C. & Son (Large)
 Pennock, W. L.
 Rhodes, Samuel
 Ritchey & Isenberg
 Rupp & Riggie
 Seedenburg & Fouse
 Wilkenson, B. P. & Co.
 ARDMORE—Cotter, Lewis L.
 Dyson, Joseph
 Foster, Herbert F.
 Haws, Samuel R. & Son
 Henzy, Peter
 McConaghy Bros.

ASHLAND—Christ & Falcker
 Dreshman Bros.
 Leibig, Charles P.
 Madgeburg, Wm. (Large)
 Maurer, Jacob J.
 Young, Chas. H.
 ATHENS—Foley, M. P.
 AVOCA—Widdall, H. S.
 BAKERSTOWN—Glasgow, R. R.
 BANGOR—Graffin, W. T.
 Merrill, Erwin
 Stiles, John
 BEAVER—Anderson & Cook
 Tallon, Farr & Co.
 BEAVER FALLS—Creese, Samuel & Son, 1505
 Haller, Jno. 6th av
 Kirker, L. C. & Son, c 4th av & 9th
 BEDFORD—Lessig Bros.
 BERWICK—Dodson, B. H.
 Everhart, A. C.
 Fahringer, Frank
 Krug, Wm.
 Stitler, J. W.
 Zeiser Bros.
 BETHELHEM—Snyder, Harvey D.
 Williamson, Henry O.
 BIRDSBORO—Focht, L. H.
 Mauger, A. E.
 Moore, R. & Son
 BLAIRSVILLE—White, W. J.
 BLOOMSBURG—Casey, Michael
 Reimard, C. H.
 BRADDOCK—Bartley, Wm. W. (Brick)
 Braddock Union Planing Mill Co.
 Campbell, R. M.
 Copeland Cont. & Supply Co.
 Dowler, Eli R.
 Hassett & Renick
 James, D. J.
 Kramer & Rldge
 Lewis, A. L.
 Phillips & George
 Sharah, P.
 Tomlinson & Whitehouse
 Wallace, A. L.
 BRADFORD—Blair, J. D.
 Boss Bros.
 Deck, John
 Gayton & McKinney
 Hail, F. D.
 Hane, F. O.
 Hanley, William
 Hayes, James W.
 Jacobson, N. T.
 Kelly, D. J.
 McKinney, Fergusou & Co.
 Osgood, H. H.
 Rizutte & Chldo
 Unruh, E. N. (Large)
 Winter, Samuel D.
 BRAEBURN—Schantz, D. B.
 BRIDGEPORT—Kerns, R.
 BRISTOL—Crichton, Wm.
 De Groot, John N.
 Lawrence, Ernest
 Peirce, E. M.
 Wollard, Chas. S.
 BROOKVILLE—Hall & Lucas
 Truman & Heidrick
 BUTLER—Hobaugh, J. S.
 Hoffner, Adam
 Schenck, George
 Weigand, Edward & Son
 CALIFORNIA—Powell, J. A. & Co.
 CANNONSBURG—Hall, Robert T.
 McNary, E. E.
 CARBONDALE—Atkinson, Hugh
 Edgett, W. H.
 Gibbs, John (Brick)
 Howell, F. J. & Co. (Inc.)
 Nemirc, R. P.
 Nolan, Jno. J.
 Robinson, N. B.
 Wright, Albert L.
 CARLISLE—Brindle, A. N.
 Brown, Harry G.
 Faber, Lewis, Jr. & Son
 Lackey, H. A.
 Porter, James
 Shatto, Jos. W.
 Tritt, Jos. A.
 Yarnall, W. S.
 CARNEGIE—Clark, H. & W.
 Davis, Robt.
 Dushane & Lewis (Large)
 Gow, George
 Harris, Morgan
 Morton, E. Clark
 CATASAUQUA—Emanuel & Co. (Inc.)
 Goldsmith, Franklin & Son
 CHAMBERSBURG—Cump, C. E.
 Frederick, Chas.
 Hafer, Frank
 Keagy, Frankln
 McCanns, Jno. W.

Minnich, D. B.
Minnich, Geo. & Son
Rhoads, Morris R.
Thomas, Abraham
CHESTER—Babe, James
Barnett & Bruner
Bell, Samuel R., Jr. (Large)
Bunyca, Martin B.
Bunyea & Dickerson
Hewes, Geo. D.
Hewes, Samuel A.
Holcroft, W. H. & Co.
Jaggers, Robert H.
Krotee, Harry J.
McCray, Heston D.
Montgomery, Samuel
Morris, H. Lewis
Nolan Bros. (Large)
Oliver, J. & T. (Large)
Philpps, Joseph H.
Plumley, Morris W.
Provost, William, Jr. (Large)
Reilly, Michael
Sheaff, A. P.
Taylor, J. Irvin (Large)
Ward, William
Wiegand, Geo.
Wiser, William J.
CLEARFIELD—Lukens, Wm. A.
Snoke, J. D. & Bro.
Thompson, Geo. I.
CLIFTON HEIGHTS—Manly, T. F.
Morgan, John
Shee, Frank
Winterbottom, Edward M.
COATESVILLE—Ash, Charles H.
Dean, Frank A.
Doan, J. Ellsworth
Dunleavy Bros.
Elliott, Wm.
Enricken, John M.
Miller, Samuel C.
Super & Moulder
Thompson, W. A. P.
COLUMBIA—Broome, John C. (Plasterer)
Ferry, John D.
Lockard, D. K.
Paules, G. W.
CONNELLSVILLE—Connellsville Cons. Co.
Keystone Planing Mill Co.
Sisley, J. M. Co.
CONSHOHOCKEN—Blanche Bros.
Cox, Christopher
Davls, Samuel
Hallowell, R. T. S.
Jones, A. H. & G. W.
Laverty, S. F.
Vanvosten, Howard (Stone)
CORAOPOLIS—Boyd, H. C.
Curry, W. C.
Knoff, H. A.
CORRY—Mount, A. P.
Munger, A. F.
Sandburg, V. M.
DANVILLE—Reifsnnyder, G. F. (Brock), 332
Trumbower & Werkheiser (Large) Church
DARBY—Baker, Edwin S.
Fink, Jos. P.
Gotshall, Adam J.
Roberts, John T.
Staley Bros.
DORRANCETON—Carle, Thos. D.
Marcy, Geo. L.
Moyer, Wm. H.
Ransom, Coray B.
Ransom, Geo. E. & Son
DOWNINGTON—Guthrie, G. Thompson
Johnson, G. Curtis
DOYLESTOWN—Cloud, Morris E.
Hager, William L.
Hohlefelder, Wm. J.
Nyce, David D.
Treffinger, Lewis
Wilson, J. Harrison
Worthington, F. L.
DUBOIS—Betts, Stiteler & Co.
Kline & Potts
Overdorf, W. H.
Sober & Hatten
DUNMORE—Gilbons, Martin
Greaves, Walter
Huff, Curtis
DUQUESNE—Kerr, C. W.
EASTON—Kelm, Reuben
Lerch, Frank J. & Co. (Large)
Luttenberger, Jacob
Morganstern, L. F.
Raub, Jacob (Large)
Slebler, W. F.
Stelmets & Walter (Large)
EAST STROUDSBURG—Hoffman, A. Y.
Hoffman, C. S.
EDWARDSDALE—Bryant, Joseph A. & Son
Jones, Herbert S.

ELLWOOD CITY—McCandless, J. A.
National Supply & Cons. Co.
ERIE—Ackerman & Son, Berst Bldg
Baldwin, James, 710 State
Constable Bros. (Large), 5th & Sassafras
Daggett, D. A.
Dodsworth, R. P., 1040 W 12th
Held, Joseph
Himberger, H. H., 629 Browns av
Johnson, Chas. J., 2715 Holland
Kirschner Bros., 421 E 9th
Leach, James J.
Lynch, James A.
Mayerhoefer, Jacob, 555 E 7th
Mehl, C. A., 819 East av
Middleton & Ostrander
Milloy, D. S., 939 W 9th
Schroeck, Adolph, 904 E 11th
Shenk, Henry Co. (Large), Sassafras c 12th
South Shore Construction Co.
Torngren, Wm.
Uht, Amandus, 434 E 9th
Walker, James D.
Weber, A. S., 554 E 9th
Zesinger, P. J., 26th & Browns av
FRANKLIN—Amsler & Shafer
Bligley, R. A.
Burford & Lundager
Burgard, J. R.
Burgard, Samuel
Craig, Leland
Eshelman, W. H.
Hunsberger & Ritchie
Long, H. W.
McKenzie, E. E.
Northwestern Construction Co.
Osborne, Edwin
Osborne, John
Theobald & Thomas
FREELAND—Boyle, J. W.
Griffith, Jas. E.
Lentz, Louis H.
Lentz, R. E.
GALETON—Grannot, Philip
GALLITZIN—Schultz, M.
GETTYSBURG—Comfort, Chas. H.
Johns, Wm. H.
GIBSONIA—Staley, W. L.
GIRARDVILLE—Maurer, Jacob J.
Scheele, Chas.
GREENSBURG—Bott, L. W.
Coulter & Furtwangler
Fulmer, R. B.
Stark, H. F.
GREENVILLE—Bortz, L. G. & Son
Heilman, G. H. & G. A.
GROVE CITY—Atwell, E. F.
Bohlender, F. W.
Maxwell, J. B.
HAMBURG—Raubenhold, A. J., S 4th
HANOVER—Coulson, J. W. & Bro.
Klunk, W. J.
Pressell, Jno. A.
Rohrbaugh, J. F.
Slagle, W. H.
HARRISBURG—Barnhart, G. F.
Bastress, J. N. & Co.
Berrier, Harry J.
Brady & Snady
Central Construction & Supply Co.
Coder & Miller
Fraun, H. S.
Harrisburg Construction Co. (Not Inc.)
Hocker, A. C.
Kamerer, Andrew N., 9th nr Market
Kinsley, D.
Kline, Samuel
Lebo, E. N., 1922 Berryhill
McKelvey, J. J., 1311 N Front
Markley, Wm. D.
Marks, D. B.
Mentzer S. F.
Miller, Chas. H., 824 N 7th
Morrow, Jos. W.
Ness, J. K., 220 Pepper
Seller, G. L.
Strapp & Benfer
Stucker Bros. Construction Co. (Inc.)
Wagner, W. H.
Weaver, V. M.
Weaver, W. O. & Son
Wildman, Aug.
HASTINGS—Keough, Orville
Lord, J. A.
Stuttmatter Bros.
HAZLETON—Boyle, J. A.
Boyle, P. F.
Brewer, Jacob
Campbell, Daniel A.
Campbell, Hugh
Central Pa. Quarry, Stripping & Cons. Co.
Eichler, John N.
Eroh, Jacob
Gormley, Thos.
Gregory, Jno., Jr.

Guttshall, Jacob
Irvin, W. H.
Itter, Chas.
Jacoby, Jacob
Kokensberger, F. H.
Kramer, Ludwig
Lefler, John A.
Leibensberger Bros.
McDermott, Peter L.
McHose & Curry
Matuskowitz, Jos. & Sons
Myers, Martin P. (West)
Rausch, Benj.
Sell, Geo.
Soroichinsky, Frank
Sovensky, Frank
Strohl, Wm.
Stumpf & Youngcourt
Thomas, Wm. F.
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Wetterau, Chas. & Co.
Woodring, Geo. E.
Ziegler, Wm. D. & Son
Zierdt, Wm. & Sons
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Drass, Jno. B.
Hunter, M. S. & Sons (Large)
Meyers, A.
Schilling, Wm.
HOMESTEAD—Hall, George M. (Large)
Snyder, J. O.
HONESDALE—Brown, R. H.
Kretnier Bros.
HUNTINGDON—Edelblute, Jno.
Gutierrez, F.
Hall, J. C.
Isenberg, John L.
Kidd, W. S.
Kidd & Corbin
Oakman, Isaiah
O'Mara, W. J.
Peightal, Nevil
Wittaker, E. B.
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Lockard, E. M.
IRWIN—Bender, Jos.
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JENKINTOWN—Carson, Samuel D.
Fitzgerald, Thos.
Horan & Leswing
O'Neil, Jas. D.
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Rose, W. J. & Sons, 328 Lincoln
Scharman, Otto
Seigh, W. F.
Smith, W. H. & Bro., Hickory
Witt, A. S.
KINGSTON—Coon, A. H.
Shepherd, J. M.
Williams, R. A.
KITTANNING—Milson, Bert
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Bachman, J. M., 830 Columbia av
Bally, C. Wilmer
Bally, Samuel H., 514 S Shippen
Breneman, Jos. P.
Burger, Henry
Denlinger, Wm. T.
Eicholtz, Herbert E.
Evans, Clifton, 28 S Lime
Flick, G. Samuel, 606 E King
Gable, John S.
Heidig, John B.
Hergenrother, Geo.
Moore, Ambrose
Morrow, Robert M.
Oster, Geo., 136 N Mary
Rapp, D. H., 536 St. Joseph
Reith, John W.
Roschel & Klos
Shaff & Brubaker
Stumpf, Jacob & Son
Wiant, Herman L.
Wissler, Henry K.
Woerth, John K.
Wohlsen, Peter N., Jr.
Zook, B. D. & Son
Zook, Joseph S., 527 N Lime
Zook & Kendig
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Detwiler, Jno. B.
Fry, Abel
Godshalk, Chas. D.
Kauffle, Jno. J.
Scholl, Seth L. & Sons
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Moore, Chas. T.
Roberts, Richard R.
Shuster, Wm. C., Jr.

Taylor, James H.
Tyas & Banham
Wilson, J. S.
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Smith, Thos. H.
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Kuhn, A. L.
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Swope, Chas. D.
Weikel, Wm.
Wengert, Martin B.
Witmer, A. H.
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Muffley & Stewart
Walferd, Michael
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Harris, Jno. V.
Mechley, Willard
Mitchell, F. W.
Montgomery, Harry B.
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White, Wm. J.
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Pemberton, W. J.
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Rettinger & Son
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Kelly, W. A.
McCord, Wm.
McCreary, Milton
Nowell, Wm.
Oliver, Robert
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Cunningham, John J.
Degler, Frank L.
Donahue, John
Klitsch Bros.
Schoener, Wm. M.
MAXHEIM—Fisher, Christ F.
Gingrich, N. W.
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Reinhold, Jno. J.
MEADVILLE—Harris, G. M.
Morrison, Wm. E. & Son
Richards, Paul H.
Stolz, Alfred C.
Wimmer, Isaac, 477 Poplar
MECHANISBURG—Baum, H. A.
Dougherty, W. H.
Pentz, Hy. H.
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Weaver, Calvin
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Flounders, Albert L.
Flounders, Jas. B.
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Henderson, Robert M.
Hinkson, W.
Parlette, H. L.
Seal, Jos. C.
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Hoffman, H. C.
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Yore, C. N. & Sons
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Morse, Geo.
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Hamilton, Jno.
Jones, Thos. P. & Son
Kamowski, Joseph
May, Alfred W.
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Messinger, Jacob H.
Roth, Henry W.
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McDaniel, R. B. & Co.
Martsolf Bros. (Large)
Twentieth Century Construction Co.
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Chambers, Wm. H. (Brick & Stone)
Huey, Samuel R.
Linsenbergler, P. C.
McConahy & Martin

New Castle Contracting Co.
New Castle Lumber & Con. Co.
Patterson, W. C.
Strobecker, Geo. & Son
NEW HAVEN—Duggan, Jno.
Patterson, Cooper
NORRISTOWN—Castle, J. Norman
Charles, Henry F.
Detwiler, Geo. M.
Doran, L. J.
Earl, Chas. & Son
Greger, Jacob B.
Groff, J. B.
Hall, Robt.
Heavener, F. R.
Himes, Jno. S.
Houpt, Daniel E. (Stone)
Jenkins, Benj. F.
King, A. T.
Landis, Isaac (Stone, Large)
Lawler, Michael F.
Oberholtzer, Frank D.
Shannon, Daniel
Shuler, F.
Simpson, H. M.
Templeton, D. F., Sr.
Wager, B. F.
White, Daniel H. (Brick)
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Pendergast, T. R.
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Dickson & McMillen
Hallett, H. H.
Kealas, Frank
Kramer, O. F.
Lesher, Joseph M.
Lewis, Jno. A.
Mundt, H. C.
Schubert, Wm. C. F.
Snyder, C. C.
Stanford, W. R.
Weaver, W. B.
Weikal, David
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Jones, Geo. E.
Walker & Gibson
PEN ARGYL—Edc, Walter
Hoppock, E. B. (Brick & Stone)
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Albertson, Wm. H., 3518 N 8th
Allen, Jas. T. & Son, 212 S 10th
Allison, Frank W. & Co., 1710 Rittenhouse
Ambler-Davis Co., 14 S Broad
Anderson, John M., 1321 S 18th
Andrews, Chas. F., 250 E Willow Grove av.
Appleton & Burrell, 1204 Chancellor C. H.
Armstrong & Latta, Land Title bldg
Ashby, Jos., 7920 2d Street Park
Atkinson, John (Brick), Builders' Ex.
Axenroth, Chas. A., 330 N Lawrence
Bader, Daniel S., 5013 Woodland av
Baldwin & Brown, 1019 Oakdale
Ballinger, R. C. & Co., 218 N 13th
Barnes, Wm. G., 2055 E Allegheny av
Barrett, G. McN., 5306 Magnolia av
Bateman, Jno. J., 845 Locust av, Gtn.
Baton, Henry E., 1221 Arch
Bean, Nathaniel M., 4411 Germantown av
Beatty, Robert & Bro., 2321 E Fletcher
Bechtel, Joseph, 140 Fairmount
Beck, Ambrose, 136 N 13th
Beckings, Henry R., Manatawny av, Rox.
Bell, Chas. E., 225 S American
Benson, W. A., 1534 Ritner
Berger & Lazaroff (Not Inc.), 416 Queen
Bertrand, Paul, 1021 Lawrence
Bertrand, Wm. C., 1031 N Lawrence
Bertsch, Wm., 1314 N 16th
Biggard, Wm. S., 1431 Susquehanna av
Bilyeu, Geo. A., 3055 N 16th
Bird, Jos. & Co., 213 N 11th
Biscoe, W. E., 3950 Ludlow
Blatz, Francis J., 4923 N Lawrence
Boas, Francis J., 14 S Broad
Boorse, David O., 1625 Thompson
Bortwick & Pringle, 8018 Germantown av
Bottous, Abel & Sons, 41 S 15th
Botwright, F. C., 1823 Bainbridge
Bowers, Jno. T., Limekiln p'k nr E Wash-
ington la, Gtn.
Bowers & Logan, Heed bldg
Boyce, John H., 2004 Diamond
Boyd, Hugh & Son, 704 S 11th
Bradford, N. R., 2510 N Bourier
Bradin, James A., 2036 Sansom
Bradley, Richard P., 1333 S American
Brady-Dackert Co., 1120 Chestnut
Bramble, Collin F., 2202 N Colorado
Branagan, James M., 537 Erie av
Brann & Stuart Co., Arcade bldg
Brenneman, J. E., 1523 S Front
Brinkworth, John H., 2149 E Dauphin
Brockelhurst, Harry, 512 W Norris
Broome, Fred'k, 4003 Sansom
Brown, T. Frank, Vernon bldg
Brown, Wm. R., 2145 E Fifth
Brownlee, Alex. R., 136 E Price, Gtn

Bubeck, Wm. D., Maple av nr Bustleton
Buckley, Wm. E., 2602 N Fairhill
Bull, Henry, 252 S 10th
Bunch, Samuel J., 406 N 41st
Bunner, Andrew, 218 E Wister, Gtn.
Burnett, J. H., 347 N 4th
Burrows, T. H., 5127 Kershaw av
Bushnell Bros., 922 Filbert
Butler, Howard J., 1236 Olive
Button, S. M., 2228 N Orkney
Buvinger, A. G., 911 N 16th
Buzby, Howard A., 5153 Wakefield
Buzby, H. H., 6368 Germantown av
Buzby, Wm. P., 241 S Hutchinson
Call, Alex., 48 Chestnut Hill av, C. H.
Carberry, Thos. J., 110 E Chelton av
Carr, Hiram A., 112 Queen, Gtn.
Carr & Hinkle, 5822 Germantown av
Chambley, Alex., 243 S 10th
Chase, Elias, Welch rd nr Ashton
Charley, Solomon, 1911 Kater
Christensen, Adolph, 1433 Brown
Clark, H. K. (Brick), 741 N 20th
Clark, Richard B., 2036 Callowhill
Cluck, Harry, 170 E Walnut la, Gtn.
Cadori, John A. Co., 525 N 9th
Cohen, Louis, 417 Christian
Collesh, Jeremiah A., 2516 N Dover
Columbia Contracting Co., 922 Arcade bldg
Coney, Dennis F., 2141 Mt. Vernon
Connen, Andrew M., 1256 N 10th
Cornell, Jno. S. & Son (Large), 233 Land
Costello, P. E., Torresdale Title bldg
Courtneil, Joseph, 4738 Worth, Fkd.
Cox, Wm., 6130 South
Cramer, Sam, 2317 N 29th
Cramp & Co., Commonwealth bldg
Crawford, J., 536 S 52d
Cridland, Sylvester, 1633 N Camac
Crouse, Joseph, 2076 E Cumberland
Dagney, J. H. & T. W., N 7th & Oak la
Dahl, Henry C., 241 S 6th
Dallas, Thos., 422 Diamond
Daniels, Morris J., 252 S Juniper
Davis, F. B., 35 S 17th
Davis, James A., 116 Sumach, Wiss.
Davis, John F., 1819 Church, Fkd
Dean, Henry, Shawmont nr Ridge, Rox.
Dear, John, 4544 Greene, Gtn.
Delmar, James J., 2425 E Allegheny av
Denny, Chas. W., 1330 Arch
Devlin, Patrick, 2443 E Sergeant
Dieterle, John G. (Stone), 104 W Penn, Gtn
Dillon, Martin P., Jr., 2527 Tulip
Doak, Albert (Brick), 762 S Mole
DOAK, JAMES G. & CO. (General Building), 1420 Chestnut. (See adv. index, end of book)
Dodd, John A., 1125 S 23d
Donovan, Jno. I., 139 N 12th
Dorsey & Smith, 111 N 7th
Douglass, Leslie, 146 Broad
Doyle, James & Sons, 878 N 46th
DOYLE & CO. (Large), 1519 Sansom. (See adv. index, end of book)
Drake & Stratton Co., 503 Pennsylvania bldg
Draper, Thos. W., 328 N 5th
Drummond, Wm. J., 1731 Carpenter
Dunbar, Daniel J., 1517 S 2d
Duncan, John, 920 Walnut
Dunlap, James F., 1510 Melon
Easterbrook, Wm., 519 Commerce
Eccles, Thos., 520 Cypress
Eckman, Chas. H., 2127 N 16th
Eddleman, Wm. H., 453 Green la, Rox.
Elvidge, Fred'k, 5614 Germantown av
Emery, Jno. W., 1524 Sansom
English, Frank G., 1608 N Carlisle
Erb, Wm. H., 4531 Springfield av
Erwin, Jos. J., 1618 N Carlisle
Evans, Burd P., 13th & Wallace
Evans, James L., 1815 N 7th
Evans & Brown, 1504 N Marvine
Ewing & Euderback, 1942 De Lancey
Eyre, Shoemaker Co., Arcade bldg
Fabringer, D. W., 322 Loney Fox Chase
Farries, Jas. H., 712 S Marvine
Farraday, Chas., 1505 N 23d
Farrar, Joseph, 1520 Ellsworth
Fatz, Harry, 4913 N 5th
Fay, Edward & Son, 2666 Richmond
Ferguson, Wm. E., 635 W Tioga
Ferguson, Wm. & Son, 405 S 21st
Ferry, Neil J., 504 S 21st
Finlay & Belfield, 130 N 12th
Fitzgerald, Jas. A., 1711 Mifflin
Fleming, Wm., 7151 Germantown av
Fonder, Edw. F., Land Title bldg
Ford, James, 834 Latona
Fossell, Geo. C., 128 Chelton av, Gtn
Foster, Jas., 3052 Ludlow
Foult, Wm., 7821 Germantown av
Fox, Wm. H., 1719 Brandywine
Fram, A. P., 319 Market
Freiling, Wm., Orkney nr Huntingdon
Fretz, A. & Son, 1222 Chancellor
Fullerton & Bro. (Brick), 2154 E Norris
Funk, E. Y., 1502 N 21st

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 Gaffney, P. J. & Co., 130 N 12th
 Gager, Chas. N., 7306 Mt. Vernon
 Gardner, Geo. W., 511 N 40th
 Getz, Jacob R., 1312 Filbert
 Gibson, Harry, 3937 Haverford
 Gill, Harry, Jr., 2200 Gtn av
 Gill, Juo. N. & Co., 1215 Filbert
 Gliven, J. L., 2714 Columbia av
 Glenn, Geo. A. & Co. (Brick), 930 N 8th
 Gohn, Andrew, 3824 Hamilton
 Gold, Abraham, 257 S 6th
 Goll, John & Co., 1539 Filbert
 Goodfellow, G. & Son, 130 S Clifton
 Goodwin, John H., 1325 E Haines, Gtn
 Gordon, Jno. T. & Bro., 2661 E Thompson
 Gottshaulk, John B., 2247 N 5th
 Graham, James, 473 York av
 Graham, Thos., 1938 S Bancroft
 Grant, J. Frank, 1625 N 13th
 Grau, H. E. Co. (Large), 1707 Sansom
 Gray, Geo., 4665 Paul, Fkd.
 Greene, Jno. F. (Brick), 950 N Marshall
 Grey, G. Frank, 1846 N Bouvier
 Griffith, James M., 2331 Columbia rd
 Griffith, Robt. B., 38 S 33d
 Gromau, R. B., 2224 N 6th
 Grubb, Chas. M. & Co., 39 N 15th
 Grubler, Wm. J., 219 E High, Gtn
 Grunwald, G. & Bro., 1638 Market
 Gnenzel, Herman C., 408 Buttonwood
 Hafbach, Phillip Cont. Co., 2530 Thompson
 Halback, John, 1107 N 3d
 Haines, Chas. C. & Co., 29 N 13th
 Haines, Wm. W., 1925 Master
 Haideman, Geo. D., 1417 N Marvine
 Hand, Joseph A., 7900 Craig bldg
 Hare, Chas. F., 1933 S 17th
 Harris, Franklin M. & Co. (Brick), 1820 Wylie
 Harshaw, Edward, 2223 Madison sq
 Harting, Samuel, 6 E Johnson, Gtn
 Havens, Fred. A. & Co. (Large), 418 Perry bldg
 Havens, Herbert E. (Lewis), Girard bldg
 Hawn, Edward C., 1106 Sansom
 Haws, Geo. W. (Brick), 839 N Uber
 Hayes & Sons, 2935 Ellsworth
 Hazlett, Hugh, 1701 N 20th
 Hazlett, Wm., 2006 Noudain
 Headman, Enos R., 2541 Germantown av
 Hedding, Fielding, 2609 N 6th
 Heinicke, H. R. (Inc.), 840 Drexel bldg
 Heist, Harry N., Broad & Colwyn
 Heist & Doeherty, 1216 N 11th
 Helseugreen, Theo. H., 4049 Olive
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 Hennebique Cons. Co., Witherspoon bldg
 Herbert, Wm. H., 3620 Powelton av
 Herring, F. G., 447 Queen, Gtn
 Hess, Jacob P., 217 Sansom
 Hill, Chas. L., 932 Moyameusing av
 Hill, Frank R., Cheltenham av nr 7th, Oak la
 Hinkle, J. H. & Co., Hutchinson & Venango
 Hoctor, James F. (Brick), 4625 Lancaster av
 Hohn, Francis J., 4205 Brown
 Holmes, Joshua M., 158 Luray
 Hoover, F. L., & Sons (Inc.), 305 Builders' Exchange
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 Howden's, Jno. Sons, 245 N 16th bridge
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 Hudsou, Henry H., 156 Queen, Gtn
 Hudson, Wm. C., 637 Preston
 Humphries, John C. & Son, 5373 Bellfield
 Hunsberger, U. S., 731 Sansom av, Gtn
 Hurley, P. J., 1216 Chancellor
 Hyzer, Wm. C., 1230 Marlborough
 Ingham, Wm. F., 41 Strawberry
 Irwin, Henry M., 1613 Ranstead
 Jackson, J. Richard, 1313 Arch
 Jacobs, Jerome, 622 Gaul
 Jacoby, Wallace D., 105 De Lancey
 Jarden, Chas. R., 6202 Morton, Gtn
 Johnson, W. H., Jr., 816 Crozer bldg
 Johnson, James, 1721 Ludlow
 Johnston, James B., 1721 Ludlow
 Jones, Wm. B. & Son, 4805 Frankford
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 Kane, Thos., 3825 Fairmount av
 Keas, Geo. & Son, 39 E Seymour, Gtn
 Keas, Wm., 4624 Penn., Fkd
 Keast, R. Harry, 6300 McCallum, Gtn
 Keefer, Elisha H., 1308 Rodman
 Keeney, Thoe, M., 116 N 16th
 Kelley, John Jay, 2443 Oakdale
 Kelly, John & Co., 512 Penn. bldg
 Kelly, P. H., Lippincott bldg
 Kerr, Wm., 2004 Naudain
 Ketcham's, B. & Son, 1029 Brown
 Kilpatrick, John T., 1933 Moravian
 King & Hay, 1701 Gratz
 Kinuier's, Jas. Sons, 111 E Cheltenham av, Gtn
 Kister, Henry M., 129 S 7th

Klebe, John, 2228 N 11th
 Klinke, Wm. J., 628 Sigel
 Knoll, Geo. W., 2647 Amber
 Koch, Henry, 408 Fairmont av
 Kramer's, Jno. Sons, 1314 N Front
 Krautter, Fred'k J., 2843 Kensington av
 Kreltzburg, Ernest J., 1345 Arch
 Krewson, Thos. C., 803 Master
 Kuehne, Otto J., 2539 N Opal
 Kuhn, Albert A., 5908 Walker, Wiss.
 Kurtz, I. Ross, 1620 N 11th
 Lam Building Co., 624 Cherry
 Lange, Frederick, 2208 N Woodstock
 Latta & Terry Construction Co., Penn bldg
 Lauer, Wm., 1539 Moyameusing av
 Lauerell, Wm. L., 1730 N Uber
 Leger, Nathan J., 6335 Haverford
 Lehrman, Nathan, 324 Christian
 Lesley & Baschore, 846 N 16th
 Levin, Joe., 1530 S 6th
 Lewis, Robt. J., 2523 Girard av
 Lingo, J. M., 6 N 20th
 Linn, Amos W. & Sons, 4767 Garden bldg
 Lisowski, Marion L., 417 Heed bldg
 Little, Thomas & Son, 1615 Sansom
 Loflin, Jno. B., 3512 Filbert
 Lovett, Henry L., 316 Callowhill
 Lower, E. K., 217 Quarry
 Lower, Wm. A., 1518 N 26th
 Luff, Samuel L., 700 N 19th
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 McCarty & Whitman, 345 York av
 McCaul, Charles Co., 10th c Sansom
 McChesney & Biddle, 616 Race
 McClellan, H. A. & Bro., 13th c Shunk
 McClintock & Weaver, 24 W Phil Ellena, Gtn
 McCloskey, Jas. F., 210 New
 McCormick & Co., 14 S Broad
 McDermott Cont. Co., 1116 Penna. bldg
 McDewitt, P. J., 1918 Cherry
 McDowell, John, 37 N 7th
 McElwee, Geo., 1629 South
 McFadden, John, 2039 Rittenhouse
 McGlathery, Joseph J., 428 Walnut
 McGlathery, Richard, 2306 N 26th
 McGonigle, James, 1003 S St. Bernard
 McGraw, Jas & Co. (Heavy Buildings, etc.), Arcade bldg
 McIntyre, Hugh & Son, 1805 S 16th
 McKenna, John & Son, 213 N 10th
 McKibben, David, 2900 Frankford av
 McLaughlin & McNamara, 4305 Germantown av
 McLeister, John, 2123 Cypress
 McNeil, John, 2412 N Fairhill
 McNichol, Jas. P. & Bro., Botz bldg
 McShain, John, 631 N 17th
 McShane, Wm. J., 1517 S 13th
 McVaugh, Thos. F., 7243 2d st pk
 MacCauley's, J. & Sons, 1328 E Montgomery av
 MacTavish & Hazzard, 1515 Pine
 Maguire, Francis T., 1710 Sansom
 Mahon, P. F., 3016 Chestnut
 Mark, Frank, 21st nr Somerset
 Marshall, Thomas, 413 Locust
 Matlack, John C., 2356 E York
 Matthews, Robt. W., 8032 Montague, Hbg
 May, Fred'k & Son (Brick), 120 E Haines, Gtn
 Megraw, John, 52d & Chester
 Melody & Keating (Large), 508 Bailey bldg
 Mendenhall, Hayes & Son, Drexel bldg
 Metzger & Wells, Heed bldg
 Meyer, Wm. Co. (Ltd.), 206 Quarry
 Middleton, John B., 1705 Ellsworth
 Miller, Adam, 3614 N 15th
 Miller, John F., 3913 N 6th
 Miller, Warren T., 627 Filbert
 Mills, Geo. H., 2140 N 9th
 Milnor, Wilson, 4934 Penn, Fkd.
 Mitchell Bros., 2125 Race
 Mitchell, David A., 132 S Clifton
 Mole, Jas. & Son, 1718 Cayuga
 Mollenkoff, Geo., Jr., 5430 Morris, Gtn
 Monagan, Jas. H., 2009 Sansom
 Monteith, Thos., 661 N 53d
 Moore, Samuel E., 1221 Arch
 Morgan, Wm. A., 2654 Tulip
 Morgner, Ricard C., 2046 N 5th
 Morris, John, 2213 Ridge av
 Morrison, Matthew, 2540 N Front
 Morrisou, Samuel, 3639 N 5th
 Morrow, Wm., 320 Harmony
 Mowery, A. Frank & Son, 5634 Morton, Gtn
 Moyer, D. C. & Co., 804 N 4th
 Muilen, Jas. A., 5512 Vine
 Mullen, Peter, Jr., 3935 Dexter, Wiss.
 Munns, Henry C., 24 S 7th
 Murphins, G. Townsend, 720 N 15th
 Murphy, M. P., 263 S 10th
 Murray, Chas. P., 2045 N 3d
 Myers, Jacob & Sons, 608 Witherspoon bldg
 Myers, Jos. F. & Son, 1237 Ridge
 Neff, Reuben W., 6609 Germantown av
 Nutz & Worthington, 1308 Wallace
 O'Dea, Dennis W., 533 Westmoreland
 O'Donnel, John, 1161 S 13th
 Oler, Horace A., 1600 N Front
 O'Neill, Chas., 1216 S Broad

Oberhoitzer, Michael S., 5528 Pulaski av, Gtn
 Oliver, J. H. & Co., 1838 Willington
 Orr, James W., Bustleton av, ab Dark Run la, Fkd
 Parker, S. D., 5921 Baynton, Gtn
 Parvin, Edward G., 2033 S Bancroft
 Pascoe, Christopher W., 1832 Christian
 Patterson, Wm. J., 46 W Southampton av.
 Paul, Jos. W. (Brick), 2222 N 6th c Hill
 Paulson, Fred'k (Brick), Island rd c S 75th
 Payne, Geo. F. & Co., 401 S Juniper
 Payne, John L., 327 Walnut
 Pennock, J. E. & A. L., Land Title bldg
 Pepper, David, Jr., 1233 Land Title bldg
 Pfau, Jos., 2255 N 5th
 Pilkington & Kendrick, 4014 Irving
 Pinkerton, Cons. Co., 539 Land Title bldg
 Plauk, W. W., 1117 S 47th
 Platt, Chas. J. W., 1015 Arch
 Ploucher, Wm. H., 5915 Walker, Wiss.
 Prentzel, A. H., Johnson & Sherman
 Price, Jos., 2048 Rittenhouse
 Price, Wm., 204 Morris
 Proud, Alfred K., 2237 N Woodstock
 Quinn, Joseph, 1404 N Front
 Quinto, Bernard, 524 Pine
 Raff, A. Raymond, 1635 Thompson
 Raffetto, Louis, 2464 N Garnet
 Raid, Joseph, 3047 N 9th
 Rambler, David, 2317 N 31st
 Rayner, Wm. F. Sons, 4128 Pechin, Rox.
 Rea, H. U., 1731 N 19th
 Rea, J. Harvey, 1026 Appletree
 Rea, Samuel J., 1608 Fairmount av
 Reber, C. M., 1018 Spring
 Rees, Chas. E., 2017 E Clearfield
 Rees, Wm. R., 2016 E Allegheny av
 Reeves, J. W. & C. H., 925 Darien
 Reeves, Stacy & Sons (Large), 1611 Filbert
 Register, A. L. & Co., 712 Fidelity, Mutual Life bldg
 Reid-Turnbull Cons. Co., Penna. bldg
 Reilly, Thos., 1616 Thompson
 Reilly & Riddle, Walnut la & Oros
 Retze, Philip H., 518 E Thompson
 Rheiner, Wm. J., 1345 Venaugo
 Ribble, Nicholas, 1510 Cuthbert
 Richards & Shourds, 1125 Spring
 Riley, James, Forrest av nr E Johnson, Gtn
 Rinker, Frank H., 440 Winona, Gtn
 Ritchie, Geo., Jr., 3724 Irving
 Ritchie, Joseph, 2733 Oxford
 Roberts, W. S. & Co., 1507 Foulkrod, Fkd
 Robinsou, Russell, 8954 Frankford av, Hbg
 Robinson, Wilfred, 7319-21, Fox Chase
 Robson, Robt., 1827 Naudain
 Roebling, Cons. Co., 1416 Land Title bldg
 Rogers, Calvin W., 319 Heed bldg
 Roth, Geo. S. & Sons, 230 E Grayer's la, C. H.
 Rowland, Alonza, 4332, Pechin, Rox
 Boydhouse, Arey & Co., Fidelity bldg
 Ruch, G. W. & Co., 2851 N Hutchinson
 Ruff, John G., 823 Cherry
 Rust, Harry R., 828 Filbert
 Schmid, Matthew, 1308 N 6th
 Schmitt, Albert (Brick), 2449 N Hancock
 Schock, Wilbert B., 8 Southampton av, C. H.
 Schoenberg, Joseph, 2911 N Reese
 Schuler, Clyde A., 3246 N 6th
 Schultz, Henry G. & Son, 3340 N Carlisle
 Schwartz, Chas. E., 617 Cherry
 Seurel, Frank & Son, 902 S 9th
 Seeds, Thomas M., Jr. (Large), 1207 Race
 Seka, Jos., 14 Highland av e Hill
 Sergeant, Jos. Co., 617 S 20th
 Shaffer, Morris W., 1742 N 11th
 Shanley, J. F. Co. (The), 400 Arcade bldg
 Shepherd, Darius, 1342 Girard av
 Shoemaker, H. B. & Co., Wayne c W.
 Shriner, R. F., 474 N 7th Duval, Gtn
 Simpson, Alex. P., 431 Winona av
 Simpson & Armstrong, 314 Heed bldg
 Sipps, Geo. L., 907 Walnut
 Sladen, G. E. & Co., 1224 Clover
 Smith, Chas. & Son, 4142 Aspen
 Smith, Hardcan Co., Perry bldg
 Smith, James, 1822 S 10th
 Smith, Peter E., 2019 Master
 Smith, Wm. B., 853 E Chestnut av, Gtn
 Smith & Robison, 605 Provident bldg
 Snyder, Geo. F. & Co., 129 S 5th
 Snyder, L. Sons, 260 N Marvine
 Snyder, L. V., 205 Ionie
 Spare, Benj. F., 1061 Brandywine
 Spenard, A. H., 830 Wood
 Sperry, D. W., 1305 Arch
 Sperry, W. H., 2501 Ridge av
 Stafford, John, 1112 Chestnut
 Steele, Wm. & Sons (Large), 1600 Arch
 Sterner, Wm. H., 2911 Brandywine
 Stevens, Wm. F., Poquessing av bet. Bustle-
 ton av & Somerton
 Stewart Bros., 2526 N Orkney
 Stitzer, James H., 917 Commonwealth Trust bldg

Stoll, Frank A., 1432 Germantown av
 Stone, Wm. E., 2069 E Dauphin
 Straw, R. J., 3618 Powelton av
 Street, Tammany P., 903 Carlton
 Streeton, Harry A., 1733 S Philip
 Strickler, Chas., 2075 Margaret, Fkd
 Strode, R. W. & Sons, 6 N 18th
 Stroup, Oliver P., 1733 N 10th
 Struse, Chos. O. & Sons, 4012 Ridge av
 Sturts, Ernest H., 2614 Ridge av
 Sullivan, John, 4916 Woodland av
 Sumption, Jas. D., 227 N 65th
 Suplee, Amos, 1210 Federal
 Suplee, Edwin F., 3440 Filbert
 Swain, S. L., 1326 S 33d
 Taylor, Wm. H. H. & Son, 119 S 4th
 Tecklenburg, Wm., 2008 N Orkney
 Thayer, Geo. W. Co., 1232 Commerce
 Thompson, John B., 1740 Ludlow
 Thompson, Jos. N., 2044 Cuthbert
 Thompson, Samuel, 214 Chancellor
 Thompson, Wm. N., 1529 Filbert
 Thompson-Starrett Co. (General Building Construction), Penn. Bldg
 Tomliuson, Jos. S., 1710 Venango
 Tourison, Ashton S., 28 S Mole
 Townsends, Asher C., 331 Montrose
 Townsend, Jos., 1018 E Berks
 Trafford, Thos. C. (Large), 2335 N 15th
 Trego, Samuel C., 5102 Pentridge
 Trexler, Daniel & Son, 202 E Sharpnack,
 Vanderslice, Thos. L., 1860 N 22d Gtn
 Virden, B. F., 2841 Ridge av
 Voight, Herman, 2923 Girard av
 Walker, Benj., 3953 Germantown av
 Wallace, Frank E., DeLong bldg
 Walter, Chas., Jr., 5023 Larchwood av
 Walter Cons. Co. (Not Inc.), 416 Heed bldg
 Walter, J. H., 168 E Walnut la, Gtn
 Warner, Geo. C., 364 E Penn.
 Warner, H. G., 717 N 42d
 Warner, Wm., 433 Green la, Rox
 Warreu, Robt. T., 2134 S Colorado
 Weaver, Alvin M., 2010 Vine
 Weber, Philip, 1326 N 4th
 Weightman, Atwood, 1745 N 27th
 Weiss, C. F. & Son, 228 S 8th
 Wells, Mark P., 3229 N 17th
 Welsh, John, 2021 N 9th
 Welsh, Matthew J., 7000 Woodland av
 Welsh, Thomas M., 774 S Broad
 Weistead, Ambrose, 416 S 22d
 Wetherstine, Harry, 226 Hansberry, Gtn
 Whelan, John M., Witherspoon bldg
 Whitehead, Alfred, 1624 Latimer
 Whiteside, Rush J. & Sons, 2115 Wallace
 Wiggins, Jno. R. & Co., 717 Heed bldg
 Wildey, Chas. R., 1133 Crease
 Wilkinson, Robt., 1705 Carlton
 Williams, Arthur H. Sons, 419 Locust
 Wilmer, Samuel S., 3211 Comly, Wiss.
 Wilson, Alex. O., 4060 Powelton av
 Wilson, Geo. H., 7206 Germantown av
 Wilson, John A., 1506 Thompson
 Wilson, John J., 2591 Gray's Ferry rd
 Wilson, J. Sims, 1125 Brown
 Wintz, Frank L., 1618 N 27th
 Wolf, John, 4110 Terrace, Myk
 Wright, Arthur J., 2041 Westmoreland
 Wulft, Theo. A., 1224 Dickinson
 Wurst, J., 536 Huntingdon
 Yundt, Charles J., 2108 N 6th
PHILLIPSBURG—Rhule, Geo. M.
PHOENIXVILLE—Carter, Harry
 Elliott, Harvey V.
 Harley & Young
 Hawke, A. D.
 Keenan, Jas.
 Kneer, Wm.
 Lowery, Irvin B.
 Pennypacker, J. C. & Co.
PITCAIRN—Palmer, C. W. (Large)
PITTSBURG—Benz, L. & Bros. (Large), 90 S
 13th
 Bollinger, Andrews Cons. Co., Empire bldg
 Booth & Flinn, 1942 Forbes
 Breitwieser, W. G., 418 House bldg
 Broido & Baumgardner, 1848 Centre
 Busse & Dettling, 112 Wabash
 City Contracting Co., 341 6th av
 Corcoran, James G. Co., 415 House bldg
 Cuthbert Bros. Co., 604 Bessemer bldg
 Dauenbauer, G. & Sons Co., 84 Arlington av
 Dravo, Contracting Co., 814 Lewis bldg
 Duff, Patents Co., 918 Frick bldg
 Dumont, Joseph, 51 Boggs av
 Duquesne Construction Co., Bessemer bldg
 Eder Construction Co., Ferguson bldg
 Gillespie, T. A. Co., Westinghouse bldg
 Golden & Crick, 3512 5th av
 Greenwood Cons. & Supply Co., 31S Liberty
 Groah, Benj. A. & Co., Empire bldg av
 Hali Bros. (Brick), House bldg
 Howley Construction Co., 237 4th av
 Howley, W. E., Frick bldg
 Jones, Evan & Co., 3600 Liberty av
 Kerr, C. H. Co., 2565 5th av
 Kerr's, Wm. Sons, Lewis bldg

Kissock, W. J., 2209 Bedford av
 Kreusler, H. L., 3301 Penn av
 Kund & Eiben, 19 Lafferty
 Lambie, C. S. & Co., 331 4th av
 Lamont, Robert & Sons, 3109 Penn av
 Lash, David H., 120 Grandview av
 Ley Construction Co., 1220 Park bldg
 Logan, Samuel, 830 Pennsylvania av
 Lydon, Mark, 5409 Keystone
 Lynd, W. J., 191 38th
 McClure, Geo. W. Son & Co., Bessemer bldg
 McQuade, James H. Co., 7 Wood
 McSpadden, J. C., 50 Shannon bldg
 Martsof Bros. (Brick), 414 House bldg
 Miller, Wm. & Sons Co. (Large), 530 Federal
 Moorehouse, Geo. E., 82 Sylvania
 Moran-Phelan Contracting Co., 324 4th av
 Murdock, W. H., 721 Lewis bldg
 Murphy Bros., 213 6th av
 Murphy & Hamilton, Herren bldg
 Negley, H. D., 7134 Idelwild
 Nicola Building Co., Farmers Bank bldg
 Ott Bros., 414 Washington av
 Payne, W. J. & Sons Co., Beltzhoover &
 Washington avs
 Pitt Construction Co., 821 Fulton bldg
 Poorbaugh, Jno. M. Co., Magee bldg
 Resmer, Frank, Lorenze av & Crucible
 Richmond, A. & Son (Large), 541 Wood
 Schlieper Engineering & Cons. Co., 707 Wa-
 bash bldg
 Shenk, Henry Co. (General), Lewis blk
 Siebert, Jno. & Sons Co., 1700 Jane
 Standard Bldg Cons. Co., Fulton bldg
STEWART, JAS. & CO. (Large).
 Westinghouse bldg. (See adv. index, end
 of book)
 Sweeney, E. I., 7729 Susquehanna
 Sweeney, Thomas Co., 4906 Cypress
 Ventress, Geo., 3417 Boquet
 Waite, W., 2504 Jane
 Wilson, A. & S. Co. (Large), 543 3d av
 Wineland Contracting & Bldg Co., 339 5th
 av
PITTSBURG—Allen, W. R.
 Bostock, Fred. L.
 Brandenburg, David L.
 Brenton, Wm. C.
 Dersheimer & Griffin, 123 S Main
 English, Robt. J.
 Frey, Milo S.
 Holmes, Alvin
 Howell, F. J. & Co. (Inc.)
 Jenkins, D. F. & T. W.
 Johnson, John A.
 Jones, T. E.
 Myers, Wm.
 O'Boyle & Fay
 Reilly, J. J.
 Snell, W. G. & Son, W P
 Van Loven, J. H.
 Wicks, John
 Wilson, G. K.
PLYMOUTH—Cooper, J. D.
 Hayward, Geo.
 Marks, L. E.
 Ransom, Chas. C. (Large)
 Watkins, Chas.
PORT CARBON—Ruddy, John C. & Bro.
 Ruuke, Chas. H.
 Slattery, John T.
POTTSTOWN—Dampman, I. K.
 Davidheiser, F. B.
 Davidheiser & Wiand (Large)
 Grubb, H. C.
 Halteman, J. L.
 Hertzog, W. D.
 Hutt & Knod
 Keiser, F. H.
 Missimer, H. H.
 Rush, John H.
 Willauer & Son
 Yocum, Newton K.
POTTSVILLE—Aregood, S. C.
 Cox, Riegel & Co.
 Diefenderfer, James M.
 Dietrich, Samuel
 Fisher, Joseph
 Gorman, J. H.
 Griesbaum, Wm. J.
 Heffner, Jas. E.
 Henne, W. & Co.
 Houser, A. H.
 Kilgus, Jacob, Pierce
 King, Chas. F.
 Knoll Bros.
 Maurer, Joseph
 Medlar, L. T., 7 N 9th
 Messersmith, Clarence A.
 Miller, Louis
 Pinkerton, Geo.
 Portland Contracting Co. (The)
 Rehman, Harry
 Schneider, Jos.
 Schum, Albert
 Simmons, Robt. A.
 Strauch, Thos. M.
 Wertley's, Walter Sous
 Zimmerman, Jno. H.

PUNXSUTAWNEY—Long, J. K. & Son
QUAKERTOWN—Barringer, Jas. L.
 Fouike, Jos. E.
 Martin, Wm.
 Mease, David W.
 Riehn, Milton B.
 Shuler, F. M.
 Stoneback, Jas. B.
 Stoneback, J. W.
 Taylor, O. M.
READING—Addis, Isaac N.
 Albrecht & Leader
 Beard, Geo. W. & Co. (Inc.) (Large), Co-
 lonial Trust bldg
 Bennethum, Jas. M.
 Borry, Addison W.
 Dampman, D. E., 529 Court
 Davis, Samuel H.
 Dechant, Wm. H.
 Diener, Endy & Fisher
 Flick, Howard J.
 Fisher, Wm. E.
 Focht, L. H. & Son (Large), 529 Court
 Garman, N. H. & Bro.
 Gerhard, Geo. L.
 Graeff, Isaac L. & Bro.
 Hart, Chas. H.
 Hartman, John S.
 Hauck & Fretz
 Hawman Bros.
 Hawman Cons. Co. (Not Inc.)
 Heine, Jos. A., 1904 Perk av
 Helfrich, W. W., 515 S 18th
 Hemmig, Albert, 309 Washington
 Hemmig, Francis M.
 Henue, Ephraim
 Hollenbach, Isaac
 Hummer, H. W.
 Hunter, D. H., 820 N 11th
 Huyett, Garson M.
 Kautner & Son
 Kline, Geo. W.
 Kocker & Mengel
 Kretz, A. H. (Large), 1201 Perk av
 Kretz, Frances C.
 Matz, Jas., 13th & Cotton
 Mayer, Jacob
 Mciuholz, Geo. H.
 Price, H., 810 Franklin
 Price, R. A., 606 Washington
 Ramer & George, 1209 Olney
 Randenbush, Henry J.
 Reading Supply & Cons. Co.
 Rehr & Fricker (Large), 124 Cedar
 Renninger, Jas. H.
 Rudolph, H. D., 723 Church
 Rummel, F. L. (Large), 234 Moss
 Schelb, Wm.
 Sharp, W. A., 1036 N 10th
 Shearer, D. R., 1422 N 10th
 Sherman, G. H., 722 N Front
 Stump, Chas. E.
 Ubil, J. G. & Son, 251 S 10th
 Weidner, John E.
 Weiser, C. W.
 White & Wagner, 1207 Oley
 Yeich, W. R., 133 Penn
RENOVO—Baird, Jas. H.
REYNOLDSVILLE—Evans, Thos. E.
 Swab, H. A.
RIDGWAY—Edwards, Wm.
 Hyde, Murphy & Co.
 Miner, W. H.
 Newburg, Carl A.
 Newburg & Olson
 Ross, P. C.
ROCHESTER—McDonald & Hartman (Brick
 & Stone)
 Miller, Wm. & Sons Co. (Large)
ROYERSFORD—Adams, Lewis
 Brunner, Samuel
 Mowry, Jacob (Large)
ST. CLAIR—Havel, Jacob J.
 Kear, H. J.
 Lawless & Crone
 Smith, Edward D.
 Thorn, W. W.
ST. MARYS—Brehen, Andrew
 Butsch, M. C.
 Glass, Matthew
 Jacobs, Jno. A.
 Jacobs, Jos.
 Schlumin, F. G.
 Schlumin, Jos.
 Valentine, Thos. J., Jr.
 Villing, Frederick W.
 Wegener, Peter
SAYRE—Adams, E. D.
 Johnson, F. H. (Large)
 Rockwell, E. A.
SCENERY HILL—Keenan, D. F.
SCHUYLKILL HAVEN—Becker, Irwin H.
 Henne, W.
 Phillips, Daniel H.
 Reed, Harry D.
 Renninger, John H.
SCOTTSDALE—McCullough & Kelly
SCRANTON—Alworth, John W.

Apostolico, Alonzo
 Baker, Wm. E.
 Boland Bros., 1131 Pittston av
 Boland, Christian T.
 Bown, Quarries & Construction Co.
 Cadden, Michael A., 1125 Luzerne
 Capewell, Geo. N.
 Caputo, Louis, 140 S. Main
 Carlucci Stone Co. (Large)
 Colvin, Fred'k C.
 Dale & Gaynor
 Dean & Price, 1440 Church av
 Deubler, M. L. & Co.
 De Witt, O. D.
 Donahue, Michael A.
 Dunn, Benj. F.
 Elias, David P., 1310 Washburn
 Engineering Construction Co.
 Eshleman, O.
 Flanagan, John
 Flanagan, Stephen & Son
 Giblin, John W.
 Houck & Simons
 Hower & Stender, Jeff av & Ash
 Hughes, Edwin G. & Co., 230 S Main av
 Hurlbutt, Henry R.
 Kadz, Jos. A.
 Kelper, Jacob
 Kennedy & Maloney
 Kingsley, Chas. R.
 Langan, John F.
 Latham, Ernest D.
 Lathrop, Shea & Henwood Co. (Large),
 Leitner, F. V. Board of Trade bldg.
 Lord & Wateran, 948 Wyo. av
 Marwick, J. & Co., 1427 Luzerne
 May, Patrick F., 344 S. Wash'n av
 Maynard, Chas. M.
 Melvin, S. D.
 Morris, John, 306 N. Rebca av
 Moyer, F. M., 1101 Penn av
 Mulherin & Judge, 1400 Remington
 Mullarky, Anthony J. Co.
 Nauuan, J. D.
 Oakley, W. D.
 O'Malley, Wm. T.
 Peck Lumber Mfg. Co. (Large), 111 E
 Market
 Perks, John, Wyoming av & Gibson
 Ricca, Frank
 Richardson, Thos. W. & Co.
 Roberts, Rob't.
 Ruddy, M. J., 421 Lackawanna av
 Spruks Bros., 220 Webster av
 Stipp Const. Co., Board of Trade bldg
 Stipp, L. T., 1716 Ridge row
 Stipp, Peter (Brick & Stone), 327 N Wash'n
 Stonder, Chas. R.
 Stonier, Lindley J.
 Sykes, F. E. & Co.
 Sykes, S. & Sons, 1235 Penn av
 Szynter, W. H.
 Tanner, Eugene
 Washburn, Williams & Co. (Large), 131
 Mer'dn
 Wheeler, Irving H., 1330 Wash'n av
 Wheeler & Haines Co., (Large), 920 Penn
 Williams, Ewin S., Coal Exch. bldg av
 Williams, Wm. W.
 Woelkers, Beilman & Zitzelman (Stone,
 etc., Large), Mears bldg.
 Woodling, B. S.
 Woolsey, J. & Co., 312 Forrest ct
 SEWICKLEY—Challis, Daniel W. & Son
 Hill, R. M.
 Moore, Albert
 Shearer Bros. (Stone)
 SHAMOKIN—Coates, T. J. & Bro.
 Fry & Davis
 Raup, H. P. & Sons (Large)
 SARON—Baker & Taylor
 Bell, A. W. (Stone)
 Budd, B. F.
 Calrey Bros.
 Flower, Chas. S.
 McCleery, Richard H. & Co.
 McIntyre, Wm. & Son (Large)
 Peters, A. R.
 Sharon Bldg Co. (Ltd.)
 Taylor Bros.
 Wishart, A. & Sons Co. (Large)
 SHARPSBURG—Charles & Emerich
 Houggy, O. W.
 Moyes, W. E.
 Schran, J. H.
 Yerkins, Geo.
 SHARPSVILLE—Bombeck & Miller
 SHENANDOAH—Britt, Wm. J.
 Cleary, P. J.
 SHIPPENSBURG—Pomeroy, John B.
 Pomeroy, Wm.
 Robinsen, L. M.
 SLATINGTON—Horn & Neff
 SOUTH BETHLEHEM—Beyscher, Cornelius
 Birkel, Benedict H. (Large)
 Danzer, William F. & Co.
 Groman Bros. (Brick & Stone, Large)

SPRING CITY—Keiter, John
 Spotts, Henry
 STEELTON—Barley Bros.
 Martin, W. F.
 Smith, A. B.
 Wright, E. B.
 Wright, H. C.
 STROUDSBURG—Miller, Gideon H.
 Palmer & Dreher
 Phillips, M. L.
 Shlfer Bros.
 SUMMIT HILL—Breslin, Andrew
 Stout, Chas. H.
 SUNBURY—Keefer, G. W.
 Keefer, J. S.
 Keefer, Peter R.
 Simpson, John & Son
 Wolf & Elster
 SUSQUEHANNA—Benson, L. C.
 TAMAQUA—Becker, Hy.
 Delzert, Christ
 Mayer, Nathan
 Rice, Jacob
 Scheid, Jno.
 Schilbe, J. A.
 Schlegal, Jas. D.
 Smith, Julius
 Urich, Jos. B.
 Weaver, Edw. E. (Large)
 Williams, O. B.
 TARENTUM—Gravatt, Jas. A.
 TITUSVILLE—Foster, David
 Hesch, P. M. & Son
 Johustone, Robert
 Nixon & Lamont
 TOWANDA—Kisner, Chas.
 TREVORTON—Schweitzer, Charles A.
 TYRONE—Beam, John B.
 Heinly, A.
 Nevling, John A.
 Reesc, Chas. R.
 Shirk, T. T. (Large)
 Waring, Frank B.
 UNION CITY—Clark, Eugene E.
 UNIONTOWN—Beatty, Geo. B. M.
 Belghley, Isaac N.
 Burchinal & Frankberry
 Carr, Jno. D.
 Carr, John D. (Paving)
 Carroll Lumber Co. (Large)
 Cornish Bros.
 Eggers, Charles F. (Good)
 Fair, D. M. & Son (Large)
 Humbert & Co.
 McCormick, W. C.
 Mills, J. P.
 Moser, O. D.
 Pyle, C. W. & Co.
 Reagon, Lynch & Co.
 Sembouer, J. T.
 Uniontown Construction Co.
 WARREN—Baker, Edw. F.
 Beck & Ott
 Dunham, O. E.
 Hamm, Chas. E.
 Holmberg, Solomon
 Lavery, W. R.
 Pixley, A. L.
 Shaw & Hand
 Shutt, K. G.
 Smith, W. A.
 Swanson, J. A.
 Swanson, Theo. F.
 Uhdey, C. W.
 WASHINGTON—Blackhurst, Thos. H.
 Burns, H. R.
 Hallman Const. Co.
 Kerns, Jno.
 Milne, Wm. L.
 Reitsch Bros. (Stone, etc.)
 Vester, Stewart & Rossell (Large)
 Walker & Slater (Large)
 WAYNE—Lengle, J. D.
 Morris, John
 Palmer, Chas. B.
 Young, Milton
 WAYNESBORO—Dukehart, A. C.
 Monn, Samuel
 Rider, John F.
 Strine, Geo. L.
 Warner, A. R.
 WAYNESBURG—Acklin, F. D.
 Baker, Wm. (Bricklayer)
 Biggins, Thos. (Stone)
 Black, F. L. & Bro.
 Blair, W. F. (Large)
 Chambers, J. N. (Stone & Brick)
 Clayton, Sam'l L. (Stone Mason)
 Funk, Jonathan M.
 McKay & McDonald (Stone Masons)
 Manning, Walter (Stone Mason)
 Meck & Co.
 Milliken, Robt. L.
 Rae, C. P.
 Waynesburg Eng. & Cons. Co.
 WEST CHESTER—Baldwin, C. R.
 Burns, Wm. H.

Corcorau, Cons. Co.
 Darlington, Howard G.
 Farra, Harry W.
 Griffith, E. R. & W. H.
 Hickman, Lewis M.
 Jefferies, P. E.
 Jones, William H.
 Lewis, Thomas L.
 Sullivan, Daniel S.
 Townsend, Geo. F.
 WEST NEWTON—Neff, C. C. (Also Planing
 Mill)
 Rhodes, S. P.
 Scholl, M. F. & Son.
 WILKES-BARRE—Allen, Willard F.
 Amesbury, Wm. H.
 Aston Bros.
 Banks, John F.
 Banks & Sickler
 Behrens, Otto J.
 Buckley, Dennis
 Burlingame, A. J.
 Campbell, A. D.
 Carle & Reilly
 Coil, L. J., 59 Gildersleeve
 Cooke Bros. & Co.
 Clark, Peter J.
 Davey & Washey, 110 E Market
 Dickover, Geo. T., Simon Loug bld.
 Dobson, John B.
 Eberly, C. C.
 Eckenrode, Jerome W.
 Eckert, George P. F., 434 Carey av
 Eddy, Fred W.
 Everman, Joseph, 519 S River
 Eyerman, Edward
 Fedar, Andrew V.
 Gaynor, Joseph M., 77 S Grant
 Hahn, L. H., 103 N Meade
 Hendler, Chas. & Co.
 Hilderbrand, Adam M.
 Hoover, Chas. D.
 Houser, John E., 19 Barney
 Hughes, Richard
 James, John E.
 Kehoe & Mowery, 720 S Franklin
 Kingston, Cons. & Eng. Co.
 Kline, Daniel M.
 Kressley, James
 Krieg, Frank C.
 Krugg, Elwell M.
 Lauge, F. & Son
 Leach, J. M., Jr.
 Lipko, Joseph
 Long, J. B.
 MacDougall & Co.
 Malloy, Michael C., 389 N Wash'n
 Mandeville & Son, 121 S Fell
 Melan, Henry J.
 Mitchell Bros.
 Morris & Nordstom
 Peiffer, H. B.
 Ross, Giles, 345 S River
 Roth, M. L.
 Schmitt, John A. (Brick & Stone, Large),
 202 E Market
 Schmidt & Co.
 Shepherd, Wm. H. & Sons (Large), 478
 S Main
 Shiber, Chas. C.
 Shiber, J. W. & Co.
 Silyus, George D. (Large), 33 S Welles
 Smith, Wilson J. (Large), 318 S Franklin
 Smith & Moskovitz
 Snawley, Wilson A., 167 Academy
 Snyder, Harry
 Thomas, John R.
 Thomas & Kear
 Walborn & Barney
 Williams, Owen
 Wilson, Chas. F. (Brick), 79 South
 WILKINSBURG—Ecker, A. C., 1226 Franklin
 Iron City Stone & Cons. Co.
 Lee, B. F. Co.
 Lindsay, W. A.
 Robinson & James
 Peffer, E. Z.
 Ward, J. H. & Sons, 817 Penn av
 WILLIAMSBURG—Bennett & Woodnut (Large),
 306 Market
 Busch & Steward
 Caryell Cons. Co.
 Cupp & Newcomer
 Greevey, John W.
 Harman Bros., 320 Locust
 Hartman, Jno. H. & Bros. (Large), 225 W
 North
 Huffman, W. H. O. & Sons, 241 William
 Larrivee, S., 311 Locust
 Sheffer, Amos, 944 Erie
 Stuempfle, David Sons, 332 Penn
 Waltz, Andrew H., 321 Louise
 WRIGHTSVILLE—Smith, J. P.
 Weller, R. H.
 WYOMING—Durland, Robt. L.
 Rozelle Bros.
 Safford, Robt. L.
 Stiff & Mullin
 Sutton, W. Byron

YORK—Allebaugh, Geo.
Ball, John J.
Blanser, Edward
Boyer, Calvin A.
Bushey, J. W.
Cedrus Planing Mill Co.
Crist, Jacob H.
Dobbling, J. H.
Epley, Horace O.
Gilbert, Geo. W. (Large)
Glatfelter, Samuel F.
Hake, A. M. & Co. (Large)
Hake, Lewis
Hake, Samuel
Hubert & Stough
Menough, Jas. L.
Minuleh & Hess
Neff, Daniel
Oermann & Blaebaum
Plouk, Joseph
Seacrist's, Jacob Sons
Spahr Bros.
Waughtel, John F.
Wolf, Howard N.

RHODE ISLAND.

APPONAUG—Green, Jno. R.
BARRINGTON CENTER—Fisher, L. T.
Martin, Wm. R.
BLOCK ISLAND—Hayes, Jno.
BRISTOL—Ball, Sumner
Barbour, Chas. A.
Buffum, Jos. L.
Durant, Jos. O.
Le Clair, Eugene
Rounds, Chas. U.
West, Everett
CAROLINA—Gates, Herbert A.
CENTRAL FALLS—Morean, Louis
Simmons, Geo. A. Co.
CONIMICUT—Darr, Geo. E.
DIAMOND HILL—Haskell, A. F.
EAST GREENWICH—Holland, James
Person, A. J.
EAST PROVIDENCE—Brown, William T.
Champlin, John C.
Cummings, Hugh
Grant, H. L.
Healy, F. B.
McCormick, J.
McDonald, Allen
Millard, Frank F.
Mlner, Joseph & Son
Perry, T. A.
Rhodes, W. H.
Straight, E. S.
Whitford, Stephen A.
Whitmarsh, Leander F.
HAMILTON—Straight, John
HARRISVILLE—Mathewson, F. L.
HOPE VALLEY—Barber, E. A.
Palmer, George L.
JAMESTOWN—Anthony, George D.
Anthony, Lewis W.
Head, Alton
Wright, Thomas D.
LIMEROCK—Murray, John B.
LONSDALE—Collinger, R. T.
MANVILLE—Fortier, O.
Guay, Omer
NARRAGANSETT PIER—Bristow, John
Burns, Robert
Congdon, Alphone
Kissouth, Alex. M.
NATICK—Remington, W. T.
NEWPORT—Armstrong, G. E.
Barlow, Wm. F.
Booth, Alexander
Borden, Wm. M.
Bosworth, P. S.
Brown, Jas.
Bryer, Walter B.
Bullock, Joseph H.
Burdick, Edmond, S.
Carter & Sherman
Clark, C. E.
Coffin, Wm. E.
Collon, John
Cotton, J. P.
Curry, Robert W.
Curtis, Sheldon H.
Darling & Slade
Dawley, William P.
Dillon, Nicholas
Dring, Walter
Fagan, P. J.
Fludder, A. J.
Friend & Maguire
Gilles, Jas. M.
Graham, James
Hodgson, Jno.
Kane, John F.
Keeher & Smith
Kerr & Bopson
Kirby, Michael J.

Kirwin Bros. (Large)
Langley, Wm. H.
Lucas, Thomas
McCormick, M. A.
McLean, Duncan
Maher, Anthony
Mason, John
Melville, Jno.
Morgan Bros.
Murphy, Michael F.
Nicol, Alexander
Patt, David A.
Peckham Bros. Co.
Peckham, Howard G., Middletown
Radford, Jno. (Large)
Reagan, Thos. H.
Stoddard, Geo. S.
Sullivan, Jno. F.
Tanner, B. F.
Weaver, Freeborn C.
White, Benjamin T.
Wright, John J.
PASCOAG—Buffum, Chas. C.
Gory, Fred A.
Harvard, Napoleon
Smith, Edward C.
PAWTUCKET—Beaudette, Edward P.
Carr, W. B.
Charpentier, Jas.
Cole, Wheaton
Cruise & Smiley Cons. Co.
Desmarais, John
Doan, J. Stephen
Lambert, Jos. H.
Masse, J. & Co.
Murphy, Louis A.
Peltier, A.
Poliquin, Jas. A.
Rohy, Wm. H.
Rowley, Frank G. Co.
Smith, Benjamin, F. Co.
Smith Bros.
Wilmarth, D. L.
Wilmarth & McKillop (Large)
PORTSMOUTH—Coggeshall, Jno. R.
Grinnell, R. J.
Manchester, Jno. E.
Sherman, George S.
PROVIDENCE—Adams, Harry C., 70 Linwood
Aiello, Antonio, 35 Grape av
Anderson, A. M. & Co., 56 Reservoir av
Andrews, Geo. L., 688 Public
Archibald, S. A., 28 Corinth
Baldwin, J. D., 67 Alverson av
Ball, A. R., 189 Grand av
Barney, O. C. & Son, 3 Custom House
Barry, David J., 64 E Manufg
Bates, J. H., 24 Carey av
Beaty, Thos. F., 20 Stokes
Bebeau, J. J., Jr., & Co., 76 Hillwood
Beck, E. H., 113 Pleasant
Beck, Vere W., 75 Westminster
Belford, A. F., 137 Waverly
Benson, Emil, 334 Willard av
Bigney, E. H., 891 Westminster
Bishop, Jno. W. Co. (Large), Butler Exch
Bouchard Bros., 172 Linwood av
Bowen, Vincent & Co., 107 Chapin av
Bradley, Edw. & Co., 20 Clifford
Briggs, Louis, 31 Plainfield
Budlong, Louis A., 27 Bowen
Budlong, Moses, 160 Benefit
Burlingame, Asa, 10 Schaffer
Calder, Chas. W., 125 Whittier av
Candelet, J. E. & Co., 10 Warrington
Chapin, A. W., 29 Page
Chapman, G. E. & Co., 148 Linwood av
Chapman, Wm. A. & Co., 49 Westminster
Charles, Andrew F., 4 Pearl
Charles, Peter F., 18 Plum
Chase, John A., 5 Baltimore
Claudier, Henry & Co.
Cole, A. L., 238 Ohio av
Crankshaw, Chas., 400 Plainfield
Crowe, Thos. A. & Co., 7 Ward
Cruckshank, Stewart C., 8 Steeple
Dinsmore, Samuel, 122 Brownell
Doane, Thos. H., 99 Chapin av
Douglas, Wm. & Co., 109 Watermau
Douglass, Daniel P., 254 Thayer
Duggan, John H., 17 Meeting
Evans, H. R., & Son, 10 Mathewson
Eversou, E. W., 122 Public
Fahey, Thos. J., 63 Terrace av
Famiglietti Bros. Co., 539 Charles
Foster, Chas. A., Chas. Field c Hope
French, Geo., & Co., 54 Friendship
Furlong, John W. & Co.
Gaboriault, H. A., 957 Westminster
Gammons, S. W., 238 Massachusetts av
Gilbane, William & Bro., 96 Harris av
Glover, David & Co., 358 Benefit
Guartiere, Sisto & Sons, 49 Dean
Halcrow, Wm. J., 88 Clifford
Harding & Hamlyn, 20 Lewis
Harris, John K., 223 Gano

Hartwell & Kingston, 49 Westminster
Helgeson, John, 251 Rhodes
Hogg, William J., 37 Meeting
Hopkins, Gilbert, 131 Garden
Humes, Cons. Co., 76 Dorrance
Jackvony, Antonio, 633 Charles
Jordan, C. B., 732 Plainfield
Lee, Oscar F., 113 Messer
Lockwood, R. W., 107 River av
McDonough, Patrick, 22 Baneroft
McDuff, Geo. F., 504 N Main
McDuff, Robert A. & Co.
McGehearty, Fk A., 655 N Main
McGhee, Robt., 81 Friendship
McGregor, Jas., 12 Charles
McLaren, John, 582 Smith
McLeod, John, 517 Hope
McNamara, Luke, 189 Amherst
McPherson, John G., 66 Woodbine
Manchester, Albert C. (Large), 136 Dorrance
Mann, Martin, 21 Ralph
Matteson & Stone, 23 Central
May, John G., 97 E George
Mitchell, Jno. O.
Mullin, John E., 35 Baker
Murray & Lamb
Nichols, Wm. L., 9 Camden av
Norcross Bros. Co., 16 Exchange
Norquist, P. Oscar, S Hamlin
Northrup, S. G., 62 N Main
Norton, John, 47 S Main
O'Neill, M. R., 143 Dyer
Parr & Watts Co., 55 Jewell
Pay, Alfred W., 16 Crawford
Peck, Jas. C., 73 Westminster
Phillips, Lemuel O., 15 Camden av
Pierce, F. L., 75 Westminster
Pierce, Lewis J., Bldg Co., 17 Custom House
Rattery, Jno. T., 55 Candace
Redford, Benj., 111 Orange
Ross, Thos. B. & Son (General), 75 Westminster
Rowland, Jno. H.
Scott, Jno. A., 87 Orange
Shaw, F. E., 160 Atlantic av
Smith, Thos. P., 1076 Westminster
Spencer, Geo. G., 53 Barrows
Stone, Jos. T., 75 Westminster
Stubbs, Thomas, 369 Washington
Sullivan, J. H., 665 Prairie av
Sundberg, Nils M., 350 Orms
Tallman, N. I., 240 Pearl
Tank & McKinnon Cons. Co.
Turgeon, E., 16 Babcock
Waterman, W. E., 918 Plainfield
Watson, Wm. H. J., 120 Governor
Welch & McGreen, 229 N Main
Whalen, Jas. F., 30 Evergreen
Williams, William, 29 Weybosset
PRUDENCE—Le Clair, Eugene, Jr.
RIVER POINT—Vaughn, F. L. & Co.
RIVERSIDE—Belou, O. O.
Jenks, Frank
Kirby, E. E.
RUMFORD—Belcher, D. W.
SHANNOCK—Card, E. S.
TIVERTON—Summer, J. M.
VALLEY FALLS—Morin, John B.
WAKEFIELD—Bell, L. F.
Brown, J. W.
Bullock, Geo. H.
Holland, C. H.
Oatley, Lincoln N.
Pollock, R. A.
Shunway & Potter
WARREN—Hall, William
Loughran, Thos. J.
Murphy, J. H.
Nichols, H. A.
Smith, Richard
Watson, E. K. Co.
WARWICK—Lockwood, J. A.
WASHINGTON—Shippee, H. M.
WESTERLY—Babcock & Wilcox
Baggs, Joseph E.
Barber, Wm. H.
Barber, W. W.
Coy & Watrous
Dunham, Charles
Kenyon, H. T. & Co.
Maxson & Co. (Large)
Sherman, Robert A. & Son
Talbot, D. T.
WICKFORD—Bullock, James H.
Straight & McKeuzie
WOONSOCKET—Allaire, Victor
Archibald, Geo. W.
Bouvier, J. C. N.
Bradford, Jas. E.
Breault, Laurent & Son
Daigeneault, Alfred
Fleurent, John F.
Gilman, Jos. & Co.
Kennedy, Andrew
Lamoreaux, Dosithee
Lavimodiere, Paul
McLaughlin, Michael

McNard, Louis, Jr.
Norton, W. F.
Simard, Adolphe E.
Warfield, Geo. P.

SOUTH CAROLINA.

ABBEVILLE—Meushall, Fred
AIKEN—Laird, Jno.
ANDERSON—Brissy, W. L. (Lumber)
Guest, C. M.
Hembree, J. L.
Mukkey, W. M.
BRANCHVILLE—Bullwinkel, J. D., 23 Montague
Bullwinkel, J. D., 23 Montague
Grant, C. McK.
Kramer, B. F., 60 Meeting
McArtney Bldg Co.
McCarrell & Sloan
Oliver, Henry (Large), 2 Mott la
Schuauacher, H. D. (Large), 614 King
Simons-Mayrant Co., 16 Broad
Trahay, M. J., 5 Horlbeck
Warren, W. M.
Whitmer Cons. Co.
CHESTER—Carpenter, J. C.
Simvill, J. R.
COLUMBIA—Barret, S. J.
Cain, J. J.
Columbia Stone Co.
Lide, C. M.
Thomas, Hazel
CONWAY—Little, H. P.
DARLINGTON—Mooney, C. & Son
FLORENCE—Bounds, S.
GREENVILLE—Brown & McGee
Gallivan, J. F. Bldg Co.
Grandy, J. F. & Son
Grandy, L. S.
Jamison & Morris
Shumate, W. T. & Co.
GREENWOOD—Greenwood Granite & Cons. Co.
LANCASTER—Bowers Bros.
NEWBERRY—Leroy, O. W.
Livingston, W. T.
ORANGEBURG—Blackman, S. A.
Robinson, W. F.
SPARTANBURG—Hertzog, Ernest L.
Martin, J. B.
Willard, Charles R.
YORKVILLE—Keller, J. J. & Co.

SOUTH DAKOTA.

ABERDEEN—Brandes, E. A.
Fossum, A. C.
Halsos, R. K.
Lepper, C.
McLaughlin, D. G.
Narregang, George
DEADWOOD—Mullen & Munn
HURON—Baker, L. D.
Jacobson, Otto
Phillips, Chas.
MADISON—Garuer, A. J.
MITCHELL—Klegs, A. J.
REDFIELD—Stolte & Miencier
SIOUX FALLS—Booth, F. M.
WATERTOWN—Brickell Cons. Co.
Gray Cons. Co.
Rowe Cons. & Heating Co.
Stover Cons. Co.
YANKTON—Burgi, Frederick
Goetz, August

TENNESSEE.

BRISTOL—McCrary, Jas. F.
McCrary, Samuel
Scharf, C. R. & Co.
Smith & Wilson
CHATTANOOGA—Adams & Schneider (Large),
Allen & Curry 120 E 8th
Brandon & Davis
Dewey, J. J. & Son
Dunlap & Barley
Dutton, Jas. F.
Edwards & Frankhouse
Fisher & Brown, P. O. B., 246
Gibbs, L. C.
Hitzfeld, L. A., 14 E 7th
Noll Cons. Co.
Smith, Chas. E.
Troutt, Johu (Stone), 1090 Market
Welgel Wm. A.
CLEVELAND—Marshall, S. W.
COLUMBIA—Simpson, Thomas (Brick)
COVINGTON—Shelton, R. B.
DYERSBURG—Nichols, J. M. (Large)
FAYETTEVILLE—Brogan & Cummings
GALLATIN—Simpson & Sons
HUMBOLDT—Campbell, J. E.
Mellwain, Chas.
JACKSON—Fleenor, R. L.
Heavner, U. R. & Co.
Parish Bros.

KNOXVILLE—Brimer & Englaud, 516 S Gay
Brimer & Englaud, 516 S Gay
Callahan Cons. Co., Empire bldg
Cooley & Sons, 402 Chamberlin
Galyon, L. A., 205 N Florida
Monday Cons. Co.
Scott, J. Foster
Worsham, Hugh F., 2540 Jefferson av
MEMPHIS—Abele, W. N., 157 N 3d
Anderson, Axel (Stone), 570 Autumn av
Crawford, D. M. & Co., Builders' Exchange
Creson, R. F. Builders' Exchange
East End Bldg Co., 5 Lenow bldg
Eummons, D. & Co., 61 Madison
Gettngby, A. W. (Large), 996 Madison av
Harris, J. M., 22 N 3d
Hunter, C. W., 67 Mouroe av
Jenkins, Thos. (Stone), 278 Madison
Kelly, M. J., Builders' Exchange
McKnight & Barker, Builders' Exchange
Mohr, Geo., 19 Huling
Moselage, J. H. (Large), Builders' Exeh
Nelson, J. J., 724 Walker av
Parlow, W. E., 2050 Linden av
Pentecost & Johnson, 200 Goodwyn Insti-
tute bldg
Pritchard Bros. (Large), 642 S Camilla
Quinn, C. B. & Co. Memphis Trust bldg
Ramsey, J. P., 1995 E Courtland pl
Rettew, H. J., 224 N Cochran pl
Roach & Stansell, N Memphis Savings B'k
bldg
Seldon-Breck Cons. Co., Tenn. Trust bldg
Silk & Chambers (Brick), Builders' Exch
Slater, O. L., Bruce av
Southern Improvement Co., Gaston e Price
Wagner, Clinton J. (Large), 664 East
Wooten, L. E. & Co., 166 Jefferson
Wright, J. N., 55 4th
Wright, W. G., 335 Adams
Young, Fred B. (Large), 1219 Miss. bulv.
MORRISTOWN—East Tenn. Wood Working Co.
Willing, C. B.
NASHVILLE—Barnard, Chas. H., 901 Warren
Berry, Nathaniel, 2004 W Jefferson
Biggers, Thos. J., 131 Ford av
Blackman, P. H., 134 3d av, N
Blankenship & Everson, 213 Cleveaud
Bowers, S. H., Printers' al n Union
Bowling, James A. & Sons, 306 3d av, N
Brooks, J. T., 1012 Scovel
Brown, Thompson A., 411 Union
Brown, W. A., Lutie & Nolensville rd
Burnett, L. T., 1405 Wheless
Burton, F., 523 N 1st
Busby, P. R., Hart & Mansfield avs
Bush Bldg Co., 41 The Arcade
Carter, Clark C., 2207 Murphy av
Central Cons. Co., 701 Stahlman bldg
Chilton & Billis, 911 Church
Christman, J. Arthur, 404 3d av, W N
Cooper & Ferguson, 1114-26 First av
Cuzzort Bros., White Creek rd & N 1st
Dean, Joseph E., 116 N 4th
DeHart, I. N. & Son, 211 13th av
Douglass, Robert L., Printers' al n Union
Dunn, W. F., 1006 Buchanan
Finney, R. R., Caldwell av n 17th
Foster & Creighton, Berry Blk
Graham, M. M., 418 Deaderick
Griffin, H. & Bro., Printers' al n Bank al
Griffin, O. W. & Co., 425 Deaderick
Griffin, R. A. & Son, Mulberry n S High
Guarantee Cons. Co., First Nat'l B'k bldg
Howell, James L. & Sons, 129 3d av, S
Jones, Green L., 500 14th av, N
Kincaid & Co., 214 4th av, S
Kirk, Eli S., 709 Kentucky av, W. N.
Lanier, Samuel A., 1418 Chadwell av
Lawrence, Edward J., 1st & Main
Lewis, E. T. Co., 59 The Arcade
Lightman, Joseph, 1906 West End av
Lowe, Wm. D., 1107 Horton
McCollum, R. B., 1909 State
McConnell, F. P., 1219 5th av N
McDonald, W. N. & Co., Cole bldg
McEady & Mason, 20th av & Church
McKissick, Geo., 413 4th av, N
Mitchell, J. B., 322 Arrington
Moore, G. & Sons (Large), 521 8th av, S
Norman & Rhodes, 410 Cedar
Pease, T. J., 523 7th av, S
Peter, Jos. H. & Co. (Inc.), 1st & Main
Price, Winfield S., 1105 Boscobel
Primrose, Benj. F., 1104 Porterfield
Proctor, Joseph A., 67 Bridge av
R. C. Cons. Co., 1300 Church
Rives, C. W., 418 Deaderick
Robeson, John C., 401 6th av
Robinson, J. M. & Co., 514 B'way
Ruffin, J. W., 701 Joseph av
Sanders, James S., 83 S 4th
Schuyler, Schuyler & Co., 905 3d av, S
Scott, J. W., 1282 4th av S
Sloan, James A. G., 57 Bridge av
Smith, Cory W., 303 3d av, N

Tolar, T. J., Commerce & Vendome al
Trotter, J. K., 2425 25th av, S
Tucker, J. P., 300 Fillmore
Vaughn, S. M. & Bro., 313 Demonbreun
Vester, J. J., White's Creek pike, 2 miles
Wade & Holby, 1st & Oldham
Walden, Harry M., 418 Deaderick
Walker, Peter, 1622 Church
Warren, Thomas P., 304 W Cloud al
Wassmer, Adolphus, 1418 3d av, N
Webb, J. A., 818 Shelby av
Wilkes, M. S. & Son, 30 Bridge av
Willard, Theo. F., 138 8th av, N
Williams, Edward L., 1103 Loulsiaua av,
Williams, John R., 7 N 1st W. N.

TEXAS.

ABILENE—Totton, Milo
AUSTIN—Fiegel, Geo., 411 Lavaca
Fischer, Francis (Brick & Stone), 1008
Lambie, R. C., 110 W 9th West av
Shurr, C. A., 402 E 11th
Watting, Jacob (Brick & Stone), 1005 Red
BEAUMONT—Babin, A.
McKnight, M. A. & Co.
Whitney, W. C.
CORPUS CHRISTI—Ring & Powell
DALLAS—Franklin Fireproofing Co., Wilson
Knight & Kenyon, 257 Crutcher bldg
Lindsay, D. H., 159 Bellevue
Slaughter, John W., Cons. Co.
Watson, Alex., 285 Main
DENISON—Cax & Peel
DENTON—Lovell, Thos.
EL PASO—Holland, T. J.
Powers, Frank
Rattenbury & Davis
Turbeville Cons. Co.
FORT WORTH—Bardon, Jno.
Davies, W. A.
Henderson, Jas. G. (Stone)
Hughes, David (Stope)
Kuhlman & Blue
Lusher & Rockett
Norris & Nichols
Texas Building Co., F. & M. Bank bldg
United States Cons. Co.
GALVESTON—Bowden & Worth, 514 9th
Clarke, Chas. & Co.
Deats & Morris
Garnett, Robert B. & Co., 2221 Church
Palliser, Robert (Brick), 2218 Mechanic
HOUSTON—Park, W. G.
Ruderdarf, John R.
Wenzel, C. C., 610 Travis
MARLIN—Branson, A. L.
MARSHALL—Forshund, Wm.
Heggins, Jas.
NAVASOTA—Navasota Telephone & Cons. Co.
SAN ANGELO—Carr, Milton
SAN ANTONIO—Boelhauwe, Chas. G., Bur-
net & N Walnut
Boettler, L. P., 801 Commerce
Builder's Cons. Co.
Dawson, N. A.
Fenstermaker, Wm.
Fincham, Chas. T.
Findlay Mfg. Bldg & Cons. Co.
Fussel, A., 2001 Virginia
Garrett, Jno. D.
Hagy, W. M., 742 Penn av
Judson Bros.
Langworthy, R. O.
Nelson, J. P. Cons. Co.
Nelson, P.
Richter, Clemens
Scott, H. L. & Co.
Shields, P. T., 1712 N Olive
Wagner, Jacob H.
SAN MARCOS—Beasley, D. K.
Breeding & Northcraft
SEQUIN—Goodman, Jno. W.
SULPHUR SPRINGS—Wilson, G. H.
VICTORIA—Bailey Mills Co.
WACO—Baker, J. B., N 5th & Grand av
Harris, J. N.

UTAH.

SALT LAKE CITY—Allen, W. L. N., 24 I
Alston, C.
Anderson, P. M.
Armstrong, T. J.
Ashton Bros. (Stone), 464 W 1st S
Asper, Noall & Co., 157 W. N. Temple
Brain, C. J., 73 S Main
Bingham Cons. Co.
Black & Leffer
Brittlan, J. H.
Burke, J. J. & Co.
Clement & Strange
Commerel Mill & Bldg Co., 141 S 3d. W
Curley, Geo. (Stone), 345 N 1st N
Davis M. & Son
Dorau, Frank

Eardley, John A.
 Eckert, J. L.
 Engdahl, O. M.
 Farrell, J. W.
 Fletcher, F. E.
 Hamlin, A. L.
 Hanley, J. C. Cons. Co.
 Grunfor, Andrew, 726 W 6th N
 Hanson, H. P.
 Hartwell, O. E.
 Hodgson, O.
 Holmes & Watkins
 Inter-Mountain Lbr. & Bldg Co.
 Jenkins, A. J.
 Jones, J. E.
 King, M. M.
 Lester, Samuel, Jr.
 Lister, Wm.
 McGinty, G. E.
 Marron & Baker
 Martin, L. D.
 Mellen, J. W., Jr.
 Mickel, Henry
 Mickelson, A. P.
 Morrow, Geo., 512 Constitution bldg
 Nelson, Ole
 Nilson, Olof
 Pacific Cons. Co.
 Percival, J. W.
 Ritter, L. K.
 Rudden, A.
 Rushton & Burkinshaw
 Salt Lake Bldg & Mfg. Co., 40 N 2d W
 Schraven, J. F. & H. E.
 Shaw, A. & L. C.
 Sholvaker, W. J.
 Showell Bros. & Belcher (Inc.)
 Sunter, W. R.
 Tuddenham, W. J., 663 2d
 Warren, O. P.
 Warren, Samuel P.
 Watrous, Ray
 West, Cornelius
 Wheelon, E. R.
 Whitman, Edward M.
 SPANISH FORK—Spanish Fork Cons. Co.

VERMONT.

BARRE—Bradford, W. F.
 Bugbee, C. L.
 Churchill, Chas. A.
 Waters, Fred'k
 BENNINGTON—Carpenter, Theo. A. & Sons
 Dunham, Walt. E.
 Pilling, Robert E.
 Remington & Wood
 Silk, Jas. S.
 BRANDON—Rogers, Thos. W.
 BRATTLEBORO—Bailey, Martin A.
 Cushman, Wm.
 BURLINGTON—Austin, Z. T., 244 College
 Mitchell, Frederick P.
 Moore, Eugene F.
 Spear Bros., S Battery c Bank
 Spear, Chas. W.
 Vermont Cons. Co.
 Whitney, Chas., 10 Townsend pl
 FAIR HAVEN—Wood, Nelson
 HARDWICK—Angell, Timothy E.
 Shepard, Chas. O.
 Trow, Geo. C.
 ISLAND POND—Ladd, M. B.
 LUDLOW—Chapman, Geo. H.
 Lawrence, Harry S.
 MONTPELIER—Alexander, A. J.
 Jackson, W. E.
 Perkins, Jas.
 NEWPORT—Norris, Charles A.
 RUTLAND—Adams, Arthur L.
 Conniff, Frank, 55 Evergreen av
 Houston, Byron K., 53 Chestnut av
 Page, Chas. E., 141 N Main
 Remington, F. H.
 ST. ALBANS—Butler, J. E.
 ST. JOHNSBURY—Bragg, Alfred L.
 Brunnelle, Jos.
 Foye, James M.
 Lynch, O. R.
 SPRINGFIELD—Burpee, Chas. E.
 Burpee, Warren L.
 Morse, Jos. E.
 Morse, Wm. P.
 WATERBURY—Deal, William
 Hazelton, Walter
 WINDSOR—Morrill, H. E.
 WOODSTOCK—Goble, Peter A.

VIRGINIA.

ALEXANDRIA—Chauncey, G. W. & Son
 Rogers, Joseph F., South Fairfax
 BEDFORD CITY—Bondurant, J. E.
 Hill, C. R.
 Overstreet & Wingfield

BERKLEY—Johnson, A. S. & Co.
 Jones, Jno. W.
 Phelps & Old
 BRISTOL—McCrary, J. R. & Son
 Seharf, C. R. & Co.
 Smith & Wilson
 BUENA VISTA—Grow, W. H. Co.
 Newland, Wm. P.
 CAPE CHARLES—Grimmer, Conrad
 CHARLOTTESVILLE—King Lumber Co.
 CLIFTON FORGE—Alleghany Cons. Co.
 Emswiler, L. A.
 DANVILLE—Deitrick & Pearson
 Fitzgerald, J. H. & Co.
 Fitzgerald, W. G. B.
 Graham, R. B., 312 Patton
 FARMVILLE—Bolling, Thos. A.
 Cox, Geo. E.
 Pollard, Daniel
 Twetvess, F. H.
 FREDERICKSBURG—Stearns, Frank P.
 Worter, Geo. W.
 GROTTOS—Eutsler Bros. (Large)
 HAMPTON—Brinson, J. H.
 Holtzelaw, C. T.
 Messenger, P. B.
 Pully, L. O.
 Richardson, R. H. & Son
 Seymour & Mears
 Tennis Cons. Co.
 Tennis, R. B.
 Weston, Alex.
 LEXINGTON—Layne, D. S.
 LYNCHBURG—Adams-Monroe Mfg Co. (Large)
 Agnor, Lee S. & Son
 Bartemus J. P.
 Bennington, S. B.
 Ellis-Winfred Cons. Co.
 Haneock, C. W. & Son
 Jones, W. T.
 McLaughlin, Jas. T., 211 Ninth
 Pettyjohn, John P. & Co. (Large)
 Smoot & Shehan
 Snead, W. B. & Co., 1321 Main
 Womaek, C. W. & Co.
 MANCHESTER—Walker, R. D.
 MARTINSVILLE—Burge, L. J.
 NEWPORT NEWS—Akers, W. H.
 Barbour, D. B. & Co.
 Curtis, Jas. C., 114 35th
 Davis, J. W. (Brick)
 Davis, Jno. W., C. & M. Bank bldg
 Downing, Julian E., 231 20th
 Frazer, J. J.
 Gayle, M. W.
 Harwood & Moss
 Morgan, E.
 Phipps, D. J.
 Richardson, West, Silsby bldg
 Via, Geo. A., 114 27th
 Ware, Geo. G., 2401 Orcutt av
 NORFOLK—Addenbrookes, J. W. Sons, Grand-
 by & N. & W. Ry
 Anders, J. E., 23 Essex bldg
 Ashton, Wm. J., 220 E Brown av
 Banks, Geo. T., 217 Monticello av
 Blick, L. T. & Son, 69 Cove
 Brent, Wm. J., 322 Board of Trade bldg
 Bunting, Jas. M., 526 31st
 Drew, W. H., 433 Fort
 Falliard, Eugene, Columbus av
 Fearing, Chas. E., 302 W Brambleton av
 Gregory & Williamson, 122 S Reservoir av
 Hayden, Homer D. Cons. Co., Atlantic
 Holland, R. L., 108 12th Trust bldg
 Marshall, W. W. & Co., Citizens B'k bldg
 Meyers, Turpin Cons. Co., Carpenter bldg
 Monk, Henry, 27th c Armistead av
 Murray, W. D. & Co. (Inc), Citizens B'k
 Pierce, J. H., 631 Law bldg
 Porter, James N. W., 28th, n Granard
 Price, Rodolph M., 26th c Fawn, V. H.
 Reynolds, Allen J., 125 33d
 Richardson, West, 404 Atlantic Trust bldg
 Roberts, I. C., 17th c Llewellyn av
 Seaward, Geo. W., Carpenter bldg
 Specialty Cons. Co., B'd of Trade bldg
 Tatterson, Elbert, 36 Granby
 Totty, G. H., 75 Outten
 Tyree, W. E., Lowenberg bldg
 Walker, A. B., 23d c Colley
 Williams, S. G. & Co., 4 Plume
 PETERSBURG—Benson, Lewis O.
 Brister & Harrison (Inc.)
 Brown, B. F.
 Goodwin, Geo. M.
 Harrison Cons. Co.
 Rowell, J. C., Sheppard
 PHOEBUS—Cross, E. & Son Co.
 Culpepper, Z. O.
 PORTSMOUTH—Boswick, Jas. R., 1112 Ef-
 fingham
 Foreman, Edward S.
 Godwin, David W., 922 Effingham
 Hutchins, S. B., 409 Wythe
 Johnson, C. C.
 Keeler, J. B. & Son

Nelms, C. F.
 Ogg, A.
 Overman, E., County ex. c Virginia av, O P
 Perdue, Wm. A.
 Tee, John C.
 Turner, W. R.
 Webb, John N., 332 High
 White, H. S.
 Williams, C. T.
 Williams, Jas. F.
 RADFORD—Dudley, Jacob W.
 Stump, J. T.
 RICHMOND—Ancarrow, Newton E., 724 E
 Main
 Atlantic Bitulithic Co., 413 Mutual bldg
 Barry, Thos. A. & Co., 12 Times bldg
 Batkins, C. L., 910 Marshall
 Bedford, A. C., 2614 W Main
 Beveridge, W. H., Jr., 507 W. Clay
 Bradley, W. B. Cons. Co., Dock nr 17th
 Chesterman, W. A. (Large), Cham of Com.
 Cosby, Benjamin F., 109 N 8th bldg
 Davls, C. W. & Bro., 2513 Floyd av
 Dietrich, E. J., 270 E Main
 Elmore, R. E. & Co., 1625 W Broad
 Ford, E. P., 2611 W Main
 Fox, Jas. & Sons, 207 Mayo
 Gilman, W. J., 1810 W Grace
 Heppert, Joseph, 908 W Clay
 Houston, A. C., 10 S 6th
 Langford, Chas. H., 306 N 1st
 Mankin Cons. Co., 812 E Main
 Mason, C. A., 1403 Beverly
 Matthews, Harvey L., 9 S 6th
 Maynard & Ford, 1900 Floyd av
 Moore, Wm. H., 1321 Ross
 Netherland & Enbank, 2701 N Cary
 Newell, Wm. B., 1315 Park av
 Nuckols, John T., 1111 E Main
 Parsons, Geo. W., 413 E Canal
 Pollard, C. W., 1208 N 20th
 Powers, John T., 2406 Grove av
 Ready, W. J., 1619 Park av
 Roney & Atkinson, 760 E Grace
 Schminke, J., 615 Albemarle
 Siewers, Richard A., 604 W Canal
 Sims, C. T., 309 W Clay
 Swann, Thos. C., 3419 E Clay
 Thomas, Jos. W., 408 N 5th
 Tiller, Geo. W., 415 W Clay
 Walkup, Alva M., American Bank bldg
 Wilson, Jno. T. (Large), Mutual Assurance
 Society bldg
 ROANOKE—Barbour, John F., Crystal Springs
 Brooke & Hunter
 Conley, D. O. (Stone), 233 Gilmer av
 Figgatt, R. A.
 Grove, W. H., 348 Elm av, S. W.
 Harris, J. G.
 Keffer, C. D., 403 Highland av, S. W.
 Kirkwood, G. G.
 Markley, C., 8 Campbell av, S. W.
 Marshall, A. L.
 Nesbitt, Jos. C.
 Pollard, J. B., 116 10th, S. W.
 Rhodes & Wade
 Shockey & Field
 STAUNTON—Blackburn, John H. & Bro.
 Blackburn & Lohr
 Lerner, Wm.
 Liviek, A. J.
 Payne, Montague
 SUFFOLK—Darden, J. M.
 Riddick, B.
 WINCHESTER—Dieffenderfer, E. H.

WASHINGTON.

ABERDEEN—American Cons. Co.
 Taylor, Fred
 Tiefenthaler, J.
 ANACORTES—Barnett, C. C.
 Davis, D. J.
 Dean, Jesse
 Pennington & Trafton
 Robertson, J. S.
 See, E. G.
 See, J. J.
 BELLINGHAM—Baumeister, W. I. & Co.
 Beebe Bros.
 Booker & Campbell
 Campbell & Anderson
 Lind, Chas. E.
 Martinson & Ossberg
 Riddle & Kavanaugh
 Sauset, K.
 Waples, Magnus
 CHEHALIS—Anderson & Robinson
 Robinson, Geo. A.
 COLFAX—Good, J. R. & Co.
 ELLENSBURG—Ackley, H. C.
 Ames Bros.
 Moon, Jno.
 Riggs, Alonzo
 EVERETT—Baptie, Walter
 Bergeron, T. J.

Bishop, Geo. H.
McAdam, A. D.
McAdam, Robert B.
Thorzig, A. & Co.
HOQUIAM—Grays, Herbor Cons. Co.
Hall, C. T.
Knack, F.
Romans, O. H.
MOUNT VERNON—Stackpole, F. H.
NORTH YAKIMA—Friesen, G. E.
Howard, A. E.
Lum, O. E.
Switzer, A. F.
Wise, W. A.
PORT ANGELES—Gate City Cont. Co.
Wood, P. J.
PORT TOWNSEND—Stegerwald, Andrew
PULLMAN—Pullman Improvement Co.
Valk, A.
RITZVILLE—Carlen, G. A.
Roth, Benj.
Schuler, S. S. & Sons
ROSLYN—Adam, Wm.
SEATTLE—General Cont. Co., 409 Globe blk
Geske & Co. (Inc.), 502 Pacific blk
SEDRO WOOLLEY—Ennis, D. B.
SOUTH BEND—Rude, C. O.
SPOKANE—Broad, Jas. C.
Huetter, J. T. E., 429 Sharp av
Jasper, Chas.
Lahr, Ernest E.
Murphy, M. C., 1st & Howard
Peterson, P. L. (Large), 2220 Bridge av
Phair, Frederick E., 1723 Jefferson
Scott, Salter & Scott
Willett & Camp, 27 Main
TACOMA—Bartz, C. A., 416 N. G.
Becker, J. P. & Son, 1419 S Ainsworth
Bennett, Nelson Co., 509 Nat'l B'k of
Commerce bldg
Black, A. S., 726 St. Helens av
Blows & Tuell, 951 S D
Bonnell, J. E. (Large), 758 Commerce
Councannon, P. J., 2936 S J
Cornell Bros., 702 S C
Dibble-Hawthorne Co., 506 Nat'l B'k of
Commerce bldg
Elmore, C D., 31st & Le Lin
Huntington, John, 1712 Commerce
Jones, N. A., 425 California bldg
Knoell Bros., 1211 S L
Lee, James, 1012 S Steele
Lister Cons. Co., 516 Berlin bldg
Nichols & Handley, 952 Pacific av
Russell, Geo. H., 421 S 31st
Sayre, C. A., 1136 Commerce
Snyder, Frank, 821 Court A
Southwood, Chas. A., 1016 S 13th
Stayton, L. Y., 510 California bldg
Wells, Jas. E., 2329 S Sheridan av
Young & Lamley Co., 311 S 11th
VANCOUVER—Ferris, F. L.
Hardin & Moore
Rectar, A. B.
Sanderson, W. G.
Sypneski, Martin
WALLA WALLA—Bailey & Lambert
Bessett, Henry E.
Caris, C. F.
Cox, E. G.
Wassell & Taylor
WENATCHEE—Bailey, I. J. & Co.
Rogers, F. A.

WEST VIRGINIA.

BLUEFIELD—Kirkbridge, T. W.
CHARLESTON—Newsum, W. D. Co.
Withrow, A. F. & Co.
CLARKSBURG—Clarksburg Cons. Co.
Hickman, C. I.
FAIRMONT—Amos & Phillips
Barchinal, T. L.
Fleming, O. J.
Heckman, W. R.
Holbert & Spedden
Moats, D. D.
Silly, Geo.
GRAFTON—Keane, J. M.
Magill, J. L.
HUNTINGTON—Shultz, J. B.
MARTINSBURG—Couchman, G. H.
Westenhauer, S. A. (Large)
MORGANTOWN—Smith Cons. Co.
PARKERSBURG—Black, T. A.
Davidson, S., 119 W 13th
Reich, Matthew
Skidmore, C.
PIEDMONT—Sigler, Wm. T.
SALEM—Davis, M. W.
Robinson, J. T.
Watson, A. J.
WELLSBURG—Mathews, J. H. & Co.
WHEELING—Aetna Cons. Co.
Beltz, J. W. & Sons, 19th & Eoff
Fort, Henry Cons. Co.

Gelsey, John L., 149 15th
Grafton Cons. Co.
Hamilton, N. O. & Sons, 1409 Market
Jackson, T. W.
Murray Bros., 1209 Eoff
Perkins, B. Frank (Brick), 2331 Eoff
Rosenberg, J. H. & Son (Stone), 2810 Eoff
Wilson, W. A. & Son, 1215 Main
Woods, W. W. Co., 33d & Chapline

WISCONSIN.

ANTIGO—Otis, J. W.
APPLETON—Appleton Cons. Co.
Fraser, A. A.
Green & Sons Co.
Hackworthy Cons. Co.
Johnston, Thos. E.
Sherry, Jas.
Weinberg, J. F.
ASHLAND—Asselstine, Henry
Eagan, Daniel
Jacobs, Barney
Pugh, T. E.
Sandstrom, John
Scott-Taylor Co. (Large)
Wilkinson, Geo.
BARABOO—Graft, Henry
Isenberg Bros.
Judvine, Arthur
BEAVER DAM—Kathlow, R. F.
Klatt, Albert
Klatt, Edward
Linde, John
BELOIT—Askin & Green
Bassett, D. F.
Cliff, John
Cunningham Bros. (Large)
Dearhammer, A. L.
Meagher & Cook
Murray, Wm. G.
Quinn, W. H.
Schneiberg & Co.
Stevens, W. E.
Tiffany, Clarence F.
Voorhees & Gilman
BERLIN—Ceman, Julius F.
Haminiski, Frank E.
Kramp & Ceman
Otetter, Louis
BURLINGTON—Diener, Chas.
Rottering Bros.
Rueter, Jas. A.
Salsbury, Joseph C.
Zarnecke, Gustave
CHIPPEWA FALLS—Campbell, A. J.
Lister, Wm.
Stanley, F. G. & C. A. Co.
EAU CLAIRE—Arnold, L. L. & Co.
Hoepfner, Bartlett & Co. (Large)
Lang & McAnulty
Meyers, Wm. L.
Peterson Bros.
EDGERTON—Hargreaves, Geo. W.
Henderson, J. O.
FOND DU LAC—Bafret, Jas. J.
Dreis, Mathew
Hutter, Jos., Sr.
Immel, John W.
Ley, Julius
McGuo Cons. Co.
O'Connell, Thos.
Slzer, F. E.
Tripp, J. B.
Voel, Anton
FORT ATKINSON—Griffin, C. J.
GREEN BAY—DeGroot, Martin
Fabry, Louis
Green, Adolph (Large)
McGrath Cons. Co.
Minahan Building Co.
HAYWARD—Martinson, Chas.
HUDSON—Kircher, Peter
Lee, John
JANESVILLE—Baker, Orlando
Blair & Summers
Cailing, Geo. K.
Carpenter, Chas.
Crossman, B. P.
Cullen, J. P. & Co. (Large)
Dailey, Chas. W.
Donehoe, Edward
Ford & Boos
Hager, Hilton & Co.
Heise & Roberly
Janesville Cons. Co.
Kelly & Mason
Nowlan, Oscar F.
Ryan, McManus & Findley
Ryan, Patrick W.
Shearer, James (Large)
Stewart, David
Stewart & Hager
Summers, A. & Son
Wray, J. G.
Wright, J. P.

JEFFERSON—Christ & Lindl
Krussing, Geo. G.
KAU KAUNA—Smith, Geo. L. Co.
KENOSHA—Beecher, J. P.
Filben, Jas. F.
Foulke, Frank
Gaastra, D.
Jones, S. M.
Pabst, Julius T.
Philbin, James
Rowe, W. M.
Windorf Bros.
LA OROSSE—Barney, T. J. (Brick)
Blinston, W. H.
Drake, Henry
Groff & Derr Cons. Co. (Large)
Gutzke, Albert
Hilliker, N. A.
Miller, Jno. A.
Mitchell, A. H.
Nelson, Peter (Large)
Noble, C. W. Co. (Large, General)
Orvik, O. E.
Schwalbe, F. N. (Large)
Sorensen, Ori J.
Stormont, James
Wallace, Edw. (Brick)
Wallace, J. E.
LAKE GENEVA—Huntress, H. W.
La Salle, Chas. O. & Son
Reinert, Malsch & Baumbach
Soutar, R.
Thomas, T. E.
Vipham, Thomas (Brick)
LANCASTER—Brackett, F. A.
Brooker Bros. (& Planing Mill)
Price, Daniel
MADISON—Bischoff, Geo. L.
Butler, Dawson R.
Copp Bros.
Cork & Holt
Doran, M. M.
Faber, Peter
Findorf, J. H. (Large)
Forbes, Geo. W.
Frederickson, A. D. & V. J. (Large)
Fritz, Carl
Gilbert, L. B. (Large)
Hanson, Fred, 26 N Baldwin
Hines, Geo.
Johnson, Adolph
Luetcher, Jacob J., 807 E Johnson
McCarthy, T. C. (Large)
Mead, Daniel W.
Melentine & Christopher
Mitchell, J. H.
Morgan & Morgan (Large)
Oakley Buser
Parr, L. L.
Paunach, Edward
Quinn, Nichols
Sayle Building & Mfg. Co.
Sieler, W. F.
Stephens, David
Tyrrell, Jos. 444½ W Gilman
Vogel, Geo. C.
MANITOWAC—Branchnan, N. J.
Meister & Co.
Schreiter, A. C. & Co.
Treistich & Herman
MARINETTE—Utke, Julius E.
MENASHA—Lux, John
MENOMONIE—Bunker & Doolittle
Govin, Stephen
MERRILL—Hesterman, Fred
Juve, A. O.
MILWAUKEE—Ahrendt & Nero, 322 Ogden av
Angove & Pierce, 613 Cherry
Baltes, A. & Son, 108 Lincoln av
Bassett-Riesen Co., Jackson c B'way
Beck, C. O., 1150 Kinnikinnic av
Biemann, Otto, 1303 Richards
Brzezinski, Frank H., 1165 1st av
Buchach, E. M., 395 3d av
Buchholz, Richard, 3116 McKinley boul
Buestrin, H. & Sons (Large), 565 E Water
Christiansen & Brunk, 315 Mineral
Clas, L. A., 564 Marryland av
Conrad, Joseph B., 204 Reed
Debbink, John, 1621 Vine
DeWolf Cons. Co., 96 Wisconsin
Donaldson, Swan B., 437 American av
Ellis & Cogan, 599 Jackson
Emerson, F. M. Co., 135 Grand av
Farrestal, Chas. E., 2908 Chestnut
Fromm, Oscar, 802 5th
Galke, Paul & Co., 832 Winnebago
General Cons. Co. (Large), 106 Mason
Graf, Wm. M., 825 28th
Graham Cons. Co., 748 Cass
Grellinger Bros., 2447 Walnut
Gruendler, Geo. Sons, 481 B'way
Guetzkow, Herman A., 557 3d
Guetzkow, L. A., 142 2d
Gutknecht, Wm., 7099 N Water
Hahn, Ernst, 723 Prairie

Hansen, Robt P. & Co., 563 27th av
 Hassler, Frank, 502 37th
 Hathaway, J. E. & Co., Casual w of 1st av
 Hausman Bros., 777 36th
 Hausman, Nicholas, 135 Grand av
 Hegeman, Henry W., 557 Oakland av
 Holstein, Aug., 1726 Chestnut
 Hove, Henry, 1922 State
 Huebner, Herman, 520 Jefferson
 Hunholz, Frank, 2520 McKinley boul
 Hunholz, John, 713 33d
 Johnson, F. O., 727 34th
 Jones, John G., 209 Pleasant
 Junck, H. F., 762 Pryor av
 Kasteu, Wm., 769 9th
 Keller, Richard, 703 41st
 Kelling, Aug., 179 Garfield av
 Kelling, Henry C., 887 7th
 Kerner, Theo., 231 Martin
 Kindt, Charles F., 2023 Syeamore
 Kindt, Otto H., 1005 W 24th
 Klueser, John, 548 19th
 Koehn, John, 602 Maple
 Koenew, Jacob, 864 Robinson av
 Kowske, Chas., 406 Herman
 Krueger, Herman, 997 8th av
 Landguth, J., 1211 Galena
 Langenberger Cons. Co., 302 6th
 Lauer, Nick, 1719 Galena
 Lauer, Peter, 608 10th
 Lentz & Schiller, 832 Richards
 Lutz, Henry C., 1345 10th
 McCann Bros., 461 Van Buren
 Meredith Bros. Co., 1043 Klmikinule av
 Miller, Lorenz, 982 26th av
 Modern Cons. Co., 32d & Galena
 Nuedling, A. & Son, 998 16th
 Pierce Mfg. Co., 613 Cherry
 Possou, Peter E., 469 Summit av
 Quinn, James J. Co., 208 Milwaukee
 Raulf, Courad, J., 533 24th
 Riesen, Paul (Large), 1022 Humboldt
 Riesen, Richard (Large), 240 24th
 Riesen & Wilkie, 421 3d
 Sand, Chas., 633 Madison
 Schauer, Herman C., 1084 25th av
 Schmitt, Herman, 734 Jackson
 Schramka, John, 1001 Bremen
 Schuett & Frey, 791 Weil
 Schulz, Erdmann, 673 Kinnikinnic av
 Smith, D. E. & Co., 221 Graud av
 Stollenwerk, Elias & Co., 952 Aldrich
 Story Bros., 204 Grand av
 Strack, W. F., 2816 Brown
 Taddey, Adolph G., 747 16th
 Taddey, F. W. & Son, 1705 Chestnut
 Thiel, Fred, 867 8th
 Van Rhenan, Wm., 134 Grand av
 Van Roo, Jacob, 538 10th
 Vogel, F. L. & Son, 508 State
 Wallschlaeger, Hy., J., 1411 Cedar
 Wilk Building Co., 711 37th
 Williams, Wm. G., 352 Jackson
 Ziemann, Henry, 313 1st av
 Zunker, William L., 3023 Mt. Vernon av

MINERAL POINT—Ellery, Jas. & Co.
 Enzenroth, Herman
 Gibbens, Lawrence

MONROE—Bauman & Keister
 Iseley, Samuel

NEENAH—Austin, Jas.
 Kittow, D. A.
 Neilson, Anton
 Sindahl, Wm.

NEW RICHMOND—Traiser & Barrett
OCONOMOWOC—Andrews & Jacobson
 Flotow, Louis
 Nelson, J. & Son
 W. E. Company

OSHKOSH—Central Cons. Co.
 Flour Bros. Cons. Co.
 Flour, Caspar
 Frank, W. H., 81 Jefferson av
 Frank & Gill
 Hanson, Peter L.
 Jones, John R.
 Mallory, J. E., 103 Frederick
 Mertz Bros., 282 13th
 Meyer, Chas. R.
 Miller, A. F., 15 John
 Miller, Jerome
 Pitz, August, 215 Church
 Radtke, Fred N.
 Rasmussen, J. & Sons Co.
 Thom, Chas., 121 Otter

PLATTEVILLE—Hughes, J. O. & Son
 Kleinhaumer, Henry
 Rose, J. M. & Son
 Satterlee & Knautz

PLYMOUTH—Radloff, Frauz
 Runge, Wm.

PORTAGE—Brodie, Harry G.
 Kutzke Bros.

PORT WASHINGTON—Berners, Hubert

PRAIRIE DU CHIEN—Steiner Bros.

RACINE—Harpster & Johnson
 Hay, Thos.

Hocking, Josiah
 Jacobson, A.
 Jensen Bros., 1835 W 6th
 Jones, John O. & Sons
 Jorgenson, M. E.
 Koerner, A. W.
 Rasmussen, Fred.
 Roberts & Co.
 Svenvig, Chas., West
 Williams, Alfred
 Williams, W. L.

REEDSBURG—West Side Building Co.
RICHLAND CENTER—Miner, Grant L.
RIPON—Howe, A. S.
RIVER FALLS—Ostness, O. H.
 Turnquist, Louis

SHEBOYGAN—Deraske, Aug.
 Engelking & Junck
 Grasse, Chas.
 Haack, Chas.
 John & Meyer
 Mallman, Wm. F., 934 Wisconsin av
 Meyer, H. E. & E.
 Nounensen, Richard
 Trinberger & Rath

STOUGHTON—Hill, Fred.
 Ovre, Aug. E. (Large)

STURGEON BAY—Falke & Greisen Cous. Co.
SUPERIOR—Baruett & Record Co.
 Berg & Olson
 Dauplaise, Alphonse J.
 Donlin, John
 Haugner, M. O.
 Hunter, J. P.
 Joos & Osmundson
 McKenzie & Arris, 1708 Winter
 Sedlacek & Anderson
 Shunn, W. H.
 Smith, Josiah
 Zachau, August

TWO RIVERS—Rath, Michael
 Schwab & Reiss

WATERTOWN—Bartlett, E. L.
 Cowan, Frank
 Reinmann & Strassburg

WAUKESHA—Advance Cons. Co.
 Blair, P. R.
 Frank, John
 James, Chas.
 Laughlin, Edw.
 Meyer, Mike
 Smith, Frank S.

WAUPACA—Jenson, Simon
 Knudson, H. P.
 Nelson, T. G. Lumber Co.

WAUPUN—Howard, Jno.
WAUSAU—Anders, Jno.
 Dean, W. H. H.
 Miller, John

WAUWATOSA—Dittmar, Christ
 Mueller, Jno. A.
 Sparleder, F. H.

WEST ALLIS—Carsou, W. T.
 Marks, Bros.
 Weber Bros

WEST END—Riesch, Ben.
WHITEWATER—Bonnert, E.
 Tubbs, A. H.

Builders' Cast Iron Work

(See Firms in Iron, Architectural & Ornamental, marked with a Star (*); also Machinists & Founders)

Builders' Hardware

(See Hardware Manufacturers)

Builders' Iron Work

(See Iron, Arch'l & Ornamental; also Iron Railings & Fences; also Iron Stair Builders; also Steel Structural Work)

Builders' Materials & Specialties (Mfrs.' Agents)

Black, John H. (Mfrs.' Agts.), Builders' Exchange, Buffalo, N. Y.
 Builders' Material Supply Co., Postal Telegraph bldg., Kansas City, Mo.
 Burgess & Chester, Real Estate Trust bldg., Phila., Pa.
 Camp, Te Roller (Mfrs.' Agent), Seattle, Wash.
 Capron, Albert J., Portland, Ore.
 Carson, Wm. T., Law bldg., Baltimore, Md.
 Cotter, Wm. T., Jacksonville, Fla.
 Crowe, F. T. & Co., Seattle, Wash.
 Dally, S. W. R., Seattle, Wash.
 Davis, Geo. H., Jr., Norfolk, Va.
FLEMING & Co., 253 B'way, N. Y.
 (See adv. index, end of book)
 Fryer, David E. & Co. (Mfrs.' Agents, New York blk, Seattle, Wash.

General Supply Co., Milwaukee, Wis.
 Hewson, S. J. Co., 10 N 3d, Minneapolis, Minn.
 Homer, John E., 7 Clay, Baltimore, Md.
 Houston Bros. Co., 32d & P. R. R., Pittsburgh, Pa.
 Jackson, Howard B., Flat Iron bldg, New York
 Kriegshaber, V. H. (Mfrs.' Agent), 6 N Forsyth, Atlanta, Ga.
 McKenry, Chas. E., Ferguson bldg., Pittsburgh, Pa.
 Lawes, Geo. H. & Co., 156 E 3d, St. Paul, Minn.
 Moores-Coney Co., Union Trust bldg., Cincinnati, O.
 National Building Supply Co., 418 E Pratt, Baltimore, Md.
 Paine & Nixon Co., Duluth, Minn.
 Paragon Plaster Co., Syracuse, N. Y.
 Richardson, H. H. (Contractors' Supplies of all Kinds), Jacksonville, Fla.
THOMAS, E. H. (Mfrs. Agent), 1123 B'way, New York
 Thompson, Thos. E., Equitable bldg, Baltimore, Md.
 Thomson & Dunlop, 226 W Michigan, Duluth, Minn.
 Thorn Cement Co., 112 Church, Buffalo, N. Y.
 Tyler, Owen (Mfrs. Agent), Tyler bldg., Louisville, Ky.
 Waterhouse & Price Co., 29 New Montgomery, San Francisco, Cal.
 Rattenbury & Davis, El Paso, Tex.
 Wood Glass Co., Syracuse, N. Y.

Builders' Mill Work

(See Interior Hardwood Work)

Building Blocks

(See Blocks, Hollow Building)

Building Directories (Changeable)

Monash-Younger Co., 203 S. Canal, Chicago, Illinois
TABLET & TICKET CO., 70-86 W
 Jackson boul, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

Building Materials (Second Hand)

Buckeye Wrecking & Building Co., 959 W 7th, Cincinnati, O.
 Buffalo House Wrecking & Salvage Co., 491 Walden av, Buffalo, N. Y.
 Candee & Krekeler, 417 Grand, Brooklyn, N. Y.
 Elston, A. A. & Co., 166 Devonshire, Boston, Mass.
 Greene, Byron W., Jr., 309 Av B, New York
 Jump, Geo. W. & Co., 45 W 34th, New York
 & 214 Greenpoint av, Brooklyn, N. Y.
 Kane, Edw. J., 260 Front, New York
 Lash, Aug. F. Co., 29 D, Boston, Mass.
 Missouri Wrecking Co., Jefferson av & O'Fallon, St. Louis, Mo.
 Pachoud Bros., 1037 Gilbert av, Cincinnati, O.
 Reeber, Jos. & Co., 527 Flushing av, Brooklyn, N. Y.
 Reebers, J. Sons, 3d av & 140th, New York
 Seagrist, F. W., Jr., & Co., 304 Av B, New York
 Southard, Chas. H. Co., 59 9th av, New York
 Van Keuren & Son, Grand & Prior, Jersey City, N. J., & Harrison, N. J.
 World's Fair Wrecking Co., Richmond & Horne, Cincinnati, O.

Building Papers

(See Paper, Roofing, Sheathing & Building, Mfrs.)

Building Sheathing (Asbestos)

(See Asbestos Materials)

Building Sheathing (Felt)

(See also Felts, Roofing)

Barrett Mfg. Co. (Red Rosin Sized, etc.), Land Title bldg., Phila., Pa.
 Diem & Wing Paper Co., 8th & Eggleston av, Cincinnati, O.
 Field & White, 116 Nassau, New York, & Boonton, N. J.
 Hydrex Felt & Engineering Co., 120 Liberty, New York

Keystone Hair Insulator Co. (Hair Felt), Allegheny, Pa.
 New England Felt Roofing Works, 18 Post Office sq., Boston, Mass.
 Standard Pipe Covering Co., Cleveland, O.
 Stewart, W. H. Mfg. Co., 81 Fulton, New York
 Union Fibre Co. ("Linofelt"), Winona, Minn.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

*Building Sheathing Quilt (Asbestos)

CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av., Chicago, Ill. (See adv. index & branch offices, end of book)

*Building Sheathing Quilt (Cabot's)

CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av., Chicago, Ill. (See adv. index & branch offices, end of book)

Building Ventilation (See Ventilating Apparatus)

Bulbs (Incandescent Lamp)

Corning Glass Works, Corning, N. Y.
 Fostoria Glass Specialty Co., Fostoria, O.
 Gil Bros., Steubenville, O.
 Libbey Glass Co., Toledo, O.
 Lippincott Glass Co., Alexandria, Ind.
 Pairpoint Corporation, New Bedford, Mass.
 Phoenix Glass Co., Pittsburg, Pa., & 13 Murray, New York

*Bulkhead Builders (Concrete)

AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)

Bulldozers

(See Bending Machines)

*Bulletins for Office & Loft Buildings (Changeable)

TABLET & TICKET CO., 70-86 W Jackson boul., Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

Bullion (Copper)

American Metal Co., 52 B'way, New York
 Beer Sondheimer & Co., 42 B'way, New York

Bullion (Lead)

American Metal Co., 52 B'way, New York
 American Zinc, Lead & Smelting Co., Caney, Kans.
 Beer, Sondheimer & Co., 42 B'way, New York
 Selby Smelting & Refining Co., San Francisco, Cal.
 U. S. Metal Refining Co., Chrome, N. J., & Grasselli, Ind.
 U. S. Smelting Co., Bingham Junction, Utah
 Vogelstein, L. & Co., 100 B'way, New York

Bumpers (Automobile)

Turner Brass Works ("Harroun"), Sycamore, Illinois

Bumpers (Car Seat)

Acme Rubber Co., Trenton, N. J.
 Consumers Rubber Co., Cleveland, O.
 Elastic Tip Co., Boston, Mass.
 Goodrich, B. F. Co., Akron, O.
 Morgan & Wright (Inc.), Detroit, Mich.

Bumpers (Rubber)

(See Rubber Bumpers and Cushions)

Bunchers (Asparagus)

Deer, Henry A., Phila., Pa.
 Wicoff, Chas. & Bro., Hightstown, N. J.

Bung Mfrs.

(See Plugs, Wood)

Bung Starters

Boston & Lockport Brass Co., Boston, Mass.
 Doscher Plane & Tool Co., Saugatuck, Conn.
 Freeman Mfg. Co., Kalkaska, Mich.
 Piqua Handle & Mfg. Co., Piqua, O.
 Redlich Mfg. Co., 2 Oak, Chicago, Ill.
 Sandusky Tool Co., Sandusky, O.
 Sommer's, Jno. Sons, Newark, N. J.
 Union Hardware Co., Torrington, Conn.
 Wilson, F. & Co., Chicago, Ill.

*Bung Tins for Barrels

ACME STEEL GOODS CO., 2834-2840 Archer av., Chicago, Ill.; 147 Lafayette, New York, & Empire bldg., Atlantic, Ga. (See adv. index, end of book)

Bunting Mfrs.

Horstmann, Wm. H. Co., Phila., Pa.
 New England Bunting Co., Lowell, Mass.
 United States Bunting Co., Lowell, Mass.

Buoys (Gas)

Safety Car Heating & Lighting Co. ("Pintsch"), 2 Rector, New York

Buoys (Life)

(See Life Preservers)

Buoys (Mooring)

Armstrong Cork Co., Pittsburg, Pa.
 Drein, Thos. & Sons, Wilmington, Del.
 Lane & De Groot Co., Long Island City, N. Y.
 Marine Mfg. & Supply Co., 158 South, New York

Burial Cases & Vaults (Slate)

American Slate Co., Bangor, Pa.
 Bangor Crescent Slate Co., Bangor, Pa.
 Bangor Slate Co., Bangor, Pa.
 Bangor Structural Slate Co., Bangor, Pa.
 East Bangor Consolidated Slate Co., East Bangor, Pa.
 Excelsior Slate Co., Pen Argyle, Pa.
 Hahn, Granville, Walnutport, Pa.
 Hercules Slate Co., Bangor, Pa.
 Monson Maine Slate Co., 113 Devonshire, Boston, Mass.

National Slate Vault Co., Bangor, Pa.
 Peerless Slate Co., Delta, Pa.
 Penna Structural Slate Co., Easton, Pa.
 Penrhyn Slate Co., 493 E. 138th, New York
 Pittsburg Slate Co., 714 Jackson, N. S., Pittsburg, Pa.
 Williams Slate Co., Aurora, Va.

Burlaps

Balley, Christopher & Son, 320 Market, Phila., Pa.
 Bailey, Jno. T. & Co., Stephen Girard bldg., Phila., Pa.
 California Jute Mill Co., 3 California, San Francisco, Cal.
 Chase, H. & L. (Importers), 233 State, Boston, Mass.
 Cheever, John S. (Mfrs. & Dealer), 66 Battery March, Boston, Mass.
 Chelsea Fibre Mills, 33 Union sq., New York
 Factory: Brooklyn, N. Y.
 Clapp, H. D. B. & Co. (Waste), 116 Produce av., Philadelphia, Pa.
 Davis, T. L. & Co. (Dealers), 110 State Boston, Mass.
 Delta Bag Co., New Orleans, La.
 Gulf Bag Co., New Orleans, La.
 Haskell, Edw. H. (Dealer), 176 Federal, Boston, Mass.
 Hoffman-Corr Mfg. Co., 55 White, New York
 Mente & Co., Board of Trade bldg., New Orleans, La.
 Milwaukee Bag Co., Milwaukee, Wis.
 Richter Mfg. Co. (Plain, Decorated, etc.), Tenafly, N. J.
 Stoddard, Haeserick & Richards Co. (Importers), 152 Congress, Boston, Mass.
 Thompson's, Sam., Nophen & Co. (Importers), 142 Duane, New York City
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Burners (Acetylene Gas)

Acetylene Apparatus Mfg. Co., 157 Michigan av., Chicago, Ill.
 Acetylene Gas Illuminating Co., 405 Broome, New York

American Brass & Copper Co., 185 Lafayette, New York
 American Lava Co. ("Alco"), Chattanooga, Tenn.
 Brown, F. P., 45 N 6th, Philadelphia, Pa.
 Carroll, J. Bruce ("Hahn," "Columbia," "Auto"), 92 Illinois, Chicago, Ill.
 Clayton & Lambert Mfg. Co., Detroit, Mich.
 Colt, J. B. Co., 21 Barclay, New York
 Crane, W. M. Co. ("Import," "Brays"), 16 W 32d, New York
 Crescent Burner Mfg. Co. ("Crescent"), 339 B'way, New York
 Davis Acetylene Fixture & Supply Co. ("Bray," "Davis"), Elkhart, Ind.
 Daylight Acetylene Gas Co. ("Starr"), Louisville, Ky.
 Dietz, R. E. Co., 61 Laight, New York
 Drake Acetylene Burner & Supply Co., San Jose, Cal.
 Eagle Generator Co. ("Eagle"), 1530 Pine, St. Louis, Mo.
 Gas Tip & Self Lighter Co., 149 Church, New York
 Gleason, E. P. Mfg. Co., 37 Murray, New York
 Iden & Co., 40 University Pl., N. Y.
 Incandescent Burner Co., 665 Fulton, Brooklyn, N. Y.
 Kirchberger, M. & Co. ("Von Schwartz" Perfection, "Crescent"), 339 B'way, New York
 Lewis Gas Machine Mfg. Co., Fort Worth, Tex.
 Novelty Burner Co., Chattanooga, Tenn.
 Starr Acetylene Gas Burner Co., Chattanooga, Tenn.
 State Line Mfg. Co. ("Wonder," "Acme," "New Century," "Meteor"), Chattanooga, Tenn.
 Steward, D. M. Mfg. Co. ("E. H.," "Steward's Dolan"), Chattanooga, Tenn.
 United Metal Mfg. Co., 525 W 26th, New York
 Williamson, R. & Co., 88 W Washington, Chicago, Ill.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Burners (Automobile)

(See Burners, Kerosene, Automobile; also Burners, Gasoline, Automobile)

Burners (Brazing & Blast)

Gilbert & Barker Mfg. Co. ("Springfield"), Springfield, Mass.
 Turner Brass Works, Sycamore, Ill.

*Burners (Coal Dust)

BARTLETT, C. O. & SNOW CO. ("Triumph"), French st., Cleveland, O. (See adv. index, end of book)

Burners (Electric Gas Lighting)

Bogart, A. L. Co. ("Bartholdi" Automatic), 123 Liberty, New York
 Boston Electric Co. ("Peerless"), 29 Harrison av., Boston, Mass.
 Cleverly Electrical Works, 17 N. 7th st., Phila., Pa.
 Electric Goods Mfg. Co. (Automatic Pendant), Boston, Mass.
 Holtzer-Cabot Electric Co. (Automatic), Brookline, Mass.
 Parke, Jno. Y. & Co. ("Jypco"), 728 Cherry, Phila., Pa.
 Roche, Wm. ("Roche"), Jersey City, N. J.
 Stevens Mfg. Co., Woodbury, N. J.
 Severton-Crossan Elec. Co. ("Victor"), 816 Arch, Phila., Pa.
 Webb Gas Lighter Co. ("Webb"), Columbus, O.

Burners (Fuel Gas)

AMERICAN GAS FURNACE CO., 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
 Combustion Utilities Co. (Brick, Cement & Lime), 60 Wall, New York
 Gilbert & Barker Mfg. Co., Springfield, Mass.
 Parson Mfg. Co. ("Parson"), 299 B'way, New York
STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av., N W, Cleveland, Ohio. (See adv. index, end of book)

Burners (Fuel Oil)

American Equipment Co. ("Fox"), Norristown, Pa.
 Bennett's Petroleum Burner Co. ("Bennett's"), New Process Pneumatic System, San Francisco, Cal.

Boston Crude Oil Burner Co., Boston, Mass.
Braun, F. W. (For Assayers' Liquid Fuel Furnaces), Los Angeles, Cal.
Cox & Sons Co., 215 Race, Phila., Pa.
Gilbert & Barker Mfg. Co. ("Springfield" Process for Burning Fuel Oil Under Low Pressure), Springfield, Mass.
Hammel, Chas. A., 609 N Main, Los Angeles, Cal.
Hauck Mfg. Co., 140 Cedar, New York
Johnson, S. T. Co. ("Johnson" Low Pressure Air System), San Francisco, Cal.
National Equipment Co. (Inc.) ("Branch", Kerosene, Crude Oil or Distillate), 211 N 7th, St. Louis, Mo.
National Supply Co., 315 Dearborn, Chicago, Ill.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Parson Mfg. Co. ("Parson"), 299 B'way, New York

PETROLEUM IRON WORKS CO. ("The Gem," for Crude Oil Under Boilers), Sharon, Pa., & Farmers' Bank bldg. Pittsburg, Pa. (See adv. index, end of book)
Rockwell Furnace Co. (For Crude Oil Under Boilers), 26 Cortlandt, New York
Rogers, Jno. M. Works, Gloucester City, N. J.
STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N W, Cleveland, Ohio. (See adv. index, end of book)
TATE, JONES & CO., (Inc.), ("Kirkwood" for Boilers, Locomotives, Furnaces, Forges, Glass House Work, etc.), Empire bldg, Pittsburg, Pa. (See adv. index, end of book)
Witt, G. E. Co., Inc. ("Little Giant"), San Francisco, Cal.

Burners (Furnace Gas)

Standard Heating & Radiator Co. ("Standard" for Hot Air, Steam & Hot Water), 220 Penn av, Pittsburg, Pa.
STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N W, Cleveland, Ohio. (See adv. index, end of book)
TATE, JONES & CO. (Inc.) Empire Bldg, Pittsburg, Pa. (See adv. index, end of book)

Burners (Gas, Inverted)

McDowell Mfg. Co., 541 Wood, Pittsburg, Pa.

Burners (Gas, Self-Lighting)

Gleason, E. P. Mfg. Co. ("Gem," "Economic" & "Matchless"), 37 Murray, New York
Matchless Mfg. Co., 31 Washington, Brooklyn, N. Y.

Burners (Gasoline)

(See Burners, Gasoline, Various Kinds)

Burners (Gasoline, Automobile)

Auto Supply Co., 1662 B'way, New York
Carroll, J. Bruce, 92 Illinois, Chicago, Ill.
Dangler Stove Co., Cleveland, O.
Dangler Stove & Mfg. Co., Cleveland, O.
Forg, Peter, Somerville, Mass.
Janney, Steinmetz & Co., Phila., Pa.
Kelly Handle Bar Co., Perkins av & C. & P. R. R., Cleveland, O.
Locke Regulator Co., Salem, Mass.

Burners (Gasoline Engine)

Turner Brass Works, Sycamore, Ill

Burners (Gasoline Gas)

Best Light Co., Canton, O.
Bystrom Gas Lamp Co., 91 Kinzie, Chicago, Ill.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Imperial Gas Machine Co., 32 Park pl., New York
Incandescent Light & Stove Co. ("Stubbs"), 421 Pearl, Cincinnati, O
Merkel, Herman, 511 Elm, St. Louis, Mo.
Planet Mfg. Co., 203 Pine, St. Louis, Mo.
Providence Gas Burner Co., Providence, R. I.
Sun Vapor Street Light Co., Canton, O.
Thirill's Gas Machine Lighting Co., 75 Fulton, New York
Turner Brass Works, Sycamore, Ill.

Burners (Hot Blast, Gas Stove)

Weimer Machine Works Co. ("Weimer"), Lebanon, Pa.

Burners (Hydro-Carbon)

Best, W. N. American Caloric Co., 11 B'way, New York
Baun, F. W. ("Cary"), Los Angeles, Cal.
Burns Hydro Carbon Burner Co., Fort Plain, N. Y.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Gleason-Peters Air Pump Co. ("Peters," for Steam or Air, High & Low Pressure), 181 Mercer, New York
TATE, JONES & CO. (Inc.) Empire bldg., Pittsburg, Pa. (See adv. index, end of book)

Burners (Incandescent Gas)

Block Light Co., Youngstown, O.
Crane, W. M. Co. ("Gem" Bi-Pass), 16 W 32d, New York
Gilbert & Barker Mfg. Co. ("Springfield"), Springfield, Mass.
Hill, A. F. ("Star"), Portland, Me.
Hipwell Mfg. Co. ("Pittsburg"), Pittsburg, Pa.
Imperial Gas Machine Co., 32 Park pl, New York
Incandescent Burner Co., 665 Fulton, Brooklyn, N. Y.
Iron City Stamping Co. (Upright and "Venus" Inverted Light), 7005 Kelly, Pittsburg, Pa.
Kern Burner Co., 88 Warren, New York.
Liberty Gas Light Co., 1234 N. High, Columbus, Ohio
Manhattan Brass Co., 338 E 28th, New York
Manhattan Screw & Stamping Works ("Royal"), 166 West End av, New York
Matchless Mfg. Co., 31 Washington, Brooklyn, Miller, Edw. & Co., Meriden, Conn. N.Y.
Momand, Sherman S., 305 Columbus av, New York
Pittsburg Lamp, Brass & Glass Co., Pittsburg, Pa.

Plume & Atwood Mfg. Co., Waterbury, Conn.
Rector Gas Lamp Co., 47 Leonard, New York
Solar Light Co., 381 Broome, New York
Stamford Gas Stove Co., Stamford Conn.
Steward, D. M. Mfg. Co. ("E. H."), Chattanooga, Tenn.
Turner Brass Works, Sycamore, Ill.
Unique Art Glass & Metal Co. ("Star"), 105 Vandever, Brooklyn, N. Y.
Waterbury Brass Goods Corporation, Waterbury, Conn.
Welsbach Co. ("Universal," "Standard" & "Consol"), 922 Chestnut, Phila., Pa. Works: Gloucester, N. J.
Willtom Gas Light Co., Columbia bldg, Columbus, O.

***Burners (Japanning or Baking)**

AMERICAN GAS FURNACE CO. (Gas), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

Burners (Kerosene, Automobile)

Barton Boller Co. ("Burnell"), 2427 Calumet av, Chicago, Ill.
National Equipment Co. (Inc.) ("Branch" for Steam Automobiles), 211 N 7th, St. Louis, Mo.
Ofeldt, F. W. & Son, Nyack, N. Y.
Steam Carriage Boller Co., Oswego, N. Y.

Burners (Kerosene Oil)

Miller, Edw. & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Seovill Mfg. Co. Waterbury, Conn.
Turner Brass Works, Sycamore, Ill.
Waterbury Brass Goods Corp., Waterbury, Conn.

Burners (Lamp)

Best Light Co., Canton, O.
Bing Burner Co. ("Bing"), 15 N E 5th, Minneapolis, Minn.
Bristol Brass Co. (Kerosene), Bristol, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Gottschalk, F. C. (Kerosene Incandescent), 265 B'way, New York
Miller, Edw. & Co., Meriden, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Waterbury Brass Goods Corporation, Waterbury, Conn.
Wheeling Stamping Co., Wheeling, W. Va.

Burners (Natural Gas)

AMERICAN GAS FURNACE CO., 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

American Stove Co., St. Louis, Mo.
Brown, Frank P., 45 N 6th, Phila., Pa.
Crane, W. M. Co. ("Gem" Self-Lighting), 16 W 32d, New York
Dayton Pipe Coupling Co., Dayton, O.
De Lery, Jos. B., 132 Nassau, New York
Enterprise Foundry Co., Allegheny, Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Hess-Snyder Co., Massillon, O.
Hollands Mfg. Co., Erie, Pa.
Illinois Malleable Iron Co., 515 Diversey boul, Chicago, Ill.
Irby & Gilliland Co., Memphis, Tenn.
Johnson Machine Co., Uniontown, Pa.
Kern Burner Co., 88 Warren, New York.
Kraushaar Brass Mfg. Co., St. Louis, Mo.
Lawson Mfg. Co., Homestead, Pa.
Lord, L. L. Co. ("Victor"), Meadville, Pa.
Love Mfg. Co., Corry, Pa.
McKenny & Waterbury, 181 Franklin, Boston, Mass.

Matchless Mfg. Co., 31 Washington, Brooklyn, N. Y.
Milwaukee Gas Stove Co. (Special High Efficiency), Milwaukee, Wis.
Minneapolis Gas Fixture Co., 802 Nicollet av, Minneapolis, Minn.
Novelty Burner Co., Chattanooga, Tenn.
Odin Stove Mfg. Co., Erie, Pa.
Ohio Brass & Iron Mfg. Co., Columbus, O.
Ohio Foundry Co. ("Allen," "I-X-L," for Stoves, Furnaces, Fireplaces, Water Tanks, etc.), Dayton, O.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
O'Rielly, M. J., Buffalo, N. Y.
Pittsburg Supply Co., Pittsburg, Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Reineke, Wilson Co., Pittsburg, Pa.
Reinforced Bronzing & Machine Co. ("Win-ner" for Large Furnaces, etc.), 2525 Liberty av., Pittsburg, Pa.

Spalding Burner Co., Akron, O.
Stamford Gas Stove Co., Stamford, Conn.
Starr Acetylene Gas Burner Co., Chattanooga, Tenn.

State Line Mfg. Co., Chattanooga, Tenn.
Steward, D. M. Mfg. Co. ("E. H."), Chattanooga, Tenn.

STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N W, Cleveland, Ohio. (See adv. index, end of book)
Superior Mfg. Co., Allegheny, Pa.
Tallmage, M. F., Buffalo, N. Y.
Union Gas Burner Co., 367 Ellicott, Buffalo, N. Y.

Van Houten, E. J. S., 74 Park Pl., N. Y.
Vim Cycle & Hardware Co., 224 B'way, Buffalo, N. Y.
Wheeling Stove & Range Co., Wheeling, W. Va.
Williamson, R. & Co., 88 W Washington, Chicago, Ill.
Young, E. R. & Sons, Titusville, Pa.

***Burners (Natural Gas Fuel)**

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
TATE, JONES & CO. (Inc.), "Klein," "Kirkwood" for Fuel Under Boilers and for Furnaces, Kilns, Dryers, Welding, etc.), Pittsburg, Pa. (See adv. index, end of book)

Burners (Pyrites & Sulphur)

American Coke & Gas Construction Co., 17 Battery pl, New York
Bethlehem Foundry & Machine Co. (for Chemical Mfrs., etc.), South Bethlehem, Pa., & 149 B'way, New York
Caroline Iron Works (for Chemical Mfrs.), 723 S Caroline, Baltimore, Md.

Burners (Refuse)

Casey-Hedges Co., Chattanooga, Tenn.
MACKINNON BOILER & MACHINE Co. (Sawmill Refuse), Bay City, Mich. (See adv. index, end of book)
Muskegon Boiler Works, Muskegon, Mich.
Northwestern Boiler Works, Superior, Mich.
Odum-Taylor Boiler Co., Memphis, Tenn.
Quinn Bros. ("Quinn," Flat Top Dutch Oven Furnace), Cincinnati, O.
Rodgers Boiler & Burner Co., Muskegon, Mich.

***Burners (Star)**

McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

Burners (Tar)

Best, W. N. American Calorific Co., 11 B'way, New York
Parson Mfg. Co. ("Parson"), 299 B'way, New York

***Burners (Weed)**

MACLEOD, WALTER, & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)

Burning Brands

Butler, A. G., 284 Pearl, New York
Everett, A. & Son (Movable Copper Letter), Auburn, N. Y.
Hanson, C. H., 44 Clark, Chicago, Ill.
Illig & Hartmann, 211 Pine, St. Louis, Mo.
Murdoch, Jas., Jr., Co., Opera pl, Cincinnati, O.
Ness, Geo. M., Jr., 61 Fulton, N. Y.
Northwestern Stamp Works, (also Shingle Brands), St. Paul, Minn.
Parker, T. M., Hartford, Conn.
Peerless Stamp & Stencil Co., Muncie, Ind.
Sackmann, F. A. ("F-A-S"), Cleveland, O.
Schwerdtle Stamp Co., Bridgeport, Conn.
Spencer, Wm. W., 206 Post Sq., Cincinnati, O.
Stewart & Hollman (Brass, 201 B'way, New York
Stortz, John & Son, 210 Vine, Phila., Pa.
Vulcan Electric Heating Co. ("Vulcan," Electric), 71 W. Jackson boul, Chicago, Ill.
Wright, Gregory G., & Son, Cincinnati, O.

Bushings

Aird, Alanson A. (Cast Iron, Radiator Bushings a Specialty), Watervliet, N. Y.
American Pulley Co. (Metal, to Fit Any Shaft), 29th & Bristol, Phila., Pa.
Belknap Mfg. Co. (Brass), Bridgeport, Conn.
Caldwell, H. W. & Son Co. (Brass for Pulleys, Sheaves, etc.), 17th & Western av, Chicago, Ill.
Crane Valve Co., Bridgeport, Conn.
Darling Pump & Mfg. Co. (Ltd.) (Brass), Williamsport, Pa.
Edna Smelting & Refining Co. (Brass), 525 Reading rd., Cincinnati, O.
General Fire Extinguisher Co., Providence, R. I.
Graphite Lubricating Co. (Graphite & Bronze), Boundbrook, N. J.
Hamlin & Emery Brass Co. (Brass, "Flush & Hexagon"), 26 Island, Rox, Boston, Mass.
National Tube Co. (Cast & Malleable Iron, Eccentric), Pittsburg, Pa.
NORTH AMERICAN METALINE CO. (Loose Pulley, Oilless), 4 West av, Long Island City, N. Y. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.

QURIDE CO. ("Quride"), Syracuse, N. Y. (See adv. index, end of book)
Reeves, Paul S., & Son (Brass, Bronze & Phosphor Bronze), 1415 Catherine, Philadelphia, Pa.
Sherman, H. B. Mfg. Co. (Hose), Battle Creek, Mich.
Union Elevator & Machine Co. (Self Lubricating), 144 Ontario, Chicago, Ill.
WESTINGHOUSE ELEC. & MFG. CO. Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

***Bushings (Adjustable Pipe)**

ARMSTRONG MFG. CO. ("Bard"), Bridgeport, Conn. (See adv. index & branch offices, end of book)

***Bushings (Bronze)**

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
NORTH AMERICAN METALINE CO. 4 West av, Long Island City, N. Y. (See adv. index, end of book)

Bushings (Conduit)

(See Bushings, Outlets & Locknuts)

Bushings (Expansion)

Brown & Sharpe Mfg. Co., Promenade nr Park, Providence, R. I.

Bushings (Glass)

Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.

Bushings (Hard Fibre)

(See Fibre Manufacturers, Hard)

***Bushings (Metaline)**

NORTH AMERICAN METALINE CO. 4 West av, Long Island City, N. Y. (See adv. index, end of book)

Bushings (Outlet & Locknuts)

Allen & Seavey, Pawtucket, R. I.
Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
Appleton Elec. Co., 224 Washington, Chicago, Ill.
Belcher & Loomis Hdw. Co. ("Boss"), Providence, R. I.
Bonnell, W. A., 132 Church, New York.
Bossert Elec. Construction Co. ("Monitor," "Ericskon"), Utica, N. Y.
Buchanan, J. F. & Co., 36 N 4th, Phila., Pa.
Chase-Shawmut Co. ("Shawmut"), Newburyport, Mass.
Fairmount Elec. Mfg. Co. ("Bendhicks"), 714 N 24th, Phila., Pa.
Federal Electric Co., 124 W Lake, Chicago, Ill.
Fox Mfg. Co., Milwaukee, Wis.
Gillette-Vibber Co., New London, Conn.
Grabler Mfg. Co., Cleveland, O.
Gwilliam Supply Co., 1339 Rldge av, Phila., Pa.
Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
Leveridge, Chas. W. ("L. & L."), 183 Greenwich, New York
Pass & Seymour, Solvay, N. Y.
Smith Mfg. Co., 1031 Cambria, Phila., Pa.
Sprague Elec. Co., 539 W 34th, New York.
Steel City Elec. Co. ("Fullman," "Star," "Flexbox"), Pittsburg, Pa.
Thomas & Betts Co., 299 B'way, New York
Troy Electrical Co. ("Teco"), Troy, N. Y.

***Bushings (Pipe)**

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Bushings (Porcelain)

(See also Porcelain Specialties, Electrical, Mechanical, Etc.)
Electric Porcelain & Mfg. Co., Trenton, N. J.
Federal Electric Co. (Clamp), Lake & Desplaines, Chicago, Ill.
Pass & Seymour, Solvay, N. Y.
Pittsburg High Voltage Insulator Co., Derry, Pa.
Thomas, R. & Sons Co., East Liverpool, O.

Bushings (Rawhide)

(See Gears, Rawhide)

Bushings (Roller Bearing)

Dnplex Roller & Bushing Co., Belfast, Me.
Hyatt Roller Bearing Co., Harrison, N. J.
Jackson, J. S. & Son, Bath, Me.
Torrey Roller Bushing Works, Bath, Me.

Bushings (Rubber)

(See Rubber Manufacturers, Mechanical)

Bushings (Socket)

Auburn Button Works, Auburn, N. Y.
Dickenson Mfg. Co., Springfield, Mass.
Federal Electric Co., 124 W Lake, Chicago, Ill.
Hubbel, Harvey, Bridgeport, Conn.
Johns, H. W.-Manville Co. ("Electrobestos"), 100 William, New York
Keough Electric Co., Boston, Mass.
Marshall Electric Mfg. Co., Boston, Mass.
Scranton Button Co. (Electroid, Socket & Plain), Scranton, Pa.
Scranton Button Co. (Socket & Plain), Scranton, Pa.
Siemon Hard Rubber Corporation, Bridgeport, Conn.
Stewart, Frank H. Electric Co., 35 N 7th, Phila., Pa.
Swan Electric Co., Boston, Mass.

Bushings (Trolley Wheel)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Eureka Tempered Copper Works, North East, Pa.
Graphite Lubricating Co., Boundbrook, N. J.

Ives, H. B. Co. ("New Haven"), New Haven, Conn.
NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
Torrey Roller Bushing Works, Bath, Me.
United Copper Foundry Co. (Graphite), Boston, Mass.

Butchers' Machinery & Supplies

(See Machinery)

Butter Workers

(See Dairy Apparatus & Supplies)

Button Mfrs.

Davenport Pearl Button Co. (Pearl, etc.), Davenport, Ia.
Haveil Mfg. Co. (Steel & Fancy), Newark, N. J.
Illinois Button Co., Quincy, Ill.
Lane Mfg. Co. (Metal), Waterbury, Conn.
Morgan & Wright, Inc. (Rubber, "M. & W."), Detroit, Mich.
Ontario Button Co. (Pearl, etc.), Utica, N. Y.
Patent Button Co., Waterbury, Conn.
Piatt Bros. Co. (Metal), Waterbury, Conn.
Scovill Mfg. Co. (Military, Livery, Railroad, Silk & Dress, etc.), Waterbury, Conn.
Smith, E. F., & Son, Union City, Conn.
Steel & Johnson Mfg. Co. (Metal), Waterbury, Conn.
Tri-City Button Co., Davenport, Ia.
Valley Button Co., Quincy, Ill.
Waterbury Button Co., (Military & Metal, Pearl, Ivory, Silk and Fancy Metal, etc.), Waterbury, Conn.
White, L. C. Co. (Metal, etc.), Waterbury, Conn.

Buttoners (Glove & Shoe)

Cassady-Fairbank Mfg. Co., 6106 Lasalle, Chicago, Ill.
Haveil Mfg. Co. (Glove), Newark, N. J.
Ross, Jos., Jr., & Co. (Glove), Newark, N. J.

Buttons (Shoe)

German-American Button Co., Rochester, N. Y.
Hedge-Lewis Mfg. Co., New Bedford, Mass.
Rhodes, M. M. & Sons Co., Taunton, Mass.
Whitehead & Hoag Co., Newark, N. J.

Butts (Brass)

(See Hinges, Butt)

By-Product Plants (Designers & Erectors)

United Machinery & Engineering Co., Commonwealth bldg, Phila., Pa.

Cabinet Work for Buildings

(See Interior Hardwood Work)

Cabinet Work (Metallic)

(See Bank & Office Fixtures, Metallic)

Cabinets (Blue Print)

Lyon Metallic Mfg. Co. (Metal), Aurora, Ill.
Terrell's Equipment Co. (Metal), Grand Rapids, Mich.

Cabinets (Catalogue)

Leonard Mfg. Co., Grand Rapids, Mich.

Cabinets (Clothing)

Builders Supply Co. ("Ideal"), Joliet, Ill.
Grand Rapids Show Case Co. (Sectional), Grand Rapids, Mich.
Heinmann-Miller Mfg. Co. ("Missing Link"), 1404 Washington av, St. Louis, Mo.

Cabinets (Electrotype)

Hamilton Mfg. Co., Two Rivers, Wis.
Leonard Mfg. Co., Grand Rapids, Mich.
Tubbs Mfg. Co., Ludington, Mich.

Cabinets (Ice Cream)

Bishop & Babcock Co., 49th & Hamilton av., Cleveland, O.

Cabinets (Oil)

BOWSER, S. F. & CO. (Inc.) (Roll Top), Fort Wayne, Ind. (See adv. index & branch offices, end of book)
Franklin Filter Co. ("Franklin"), 308 N Commercial, St. Louis, Mo.
Perfection Oil Tank Co., Syracuse, N. Y.
New York Oil Cabinet Co. ("Wiley"), 180 Cherry, New York
Wadsworth, C. J., 5806 Euclid av, Cleveland, Ohio
Welch Folding Bed Co. (Sectional), Grand Rapids, Mich.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Cabinets (Panel Board, Metal)

Bonnell, W. A., 132 Church, New York
Burns, James P., 47 N Hutchinson, Phila., Pa.
Cleveland Switchboard Co., Cleveland, O.
Columbia Metal Box Co., 79 E 130th, New York
Connecticut Electric Mfg. Co., Bautam, Conn.
Crouse-Hinds Co. (Also Wood), Syracuse, N. Y.
Cuthbert Electrical Mfg. Co., 107 S Clinton, Chicago, Ill.
Electrical Mfg. Co., 1363 W 2d, N W, Cleveland, O.
Hinsdill Electric Company, Troy, N. Y.
Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
Metropolitan Switchboard Co., 532 W 22d, New York
Mutual Electric Mfg. Company, Wheeling, W. Va.
Paiste, H. T. ("Le Manquais"), 32d & Arch, Phila., Pa.
Pike Electric Co. ("Builtrite"), Minneapolis, Minn.
Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.
Renim Specialty Co., 37 Parkman, Br., Boston, Mass.
Troy Electrical Co., Troy, N. Y.
Trumbull Electric Mfg. Co., Plainville, Conn.
Wesco Supply Co., St. Louis, Mo.
Wurdack, Wm. Electric Mfg. Co., 19 S 11th, St. Louis, Mo.

Cabinets (Syrup)

Bishop & Babcock Co., Cleveland, O.

Cabinets (Toilet Paper)

A. P. W. Paper Co. ("The Onliwon"), Albany, N. Y.

Cabinets & Filing Cases (Metallic)

(See Filing Cabinets & Devices, with the words Metallic or Steel)

Cable (Ignition)

Boston Insulated Wire & Cable Co., 182 Freeport, Boston, Mass.
Champion, Albert Co., 541 Tremont, Boston, Mass.
Goodson Electric Ignition Co. (Insulated Wire), 94 Point, Providence, R. I.
Herz & Co., 203 Lafayette, New York
Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
Mosler, A. R. & Co., Inc., 163 W 29th, New York
Packard Electric Co., Warren, O.
Post & Lester Co., Hartford, Conn.
Rubay Auto Ignition & Supply Co., 229 W 54th, New York
Shain, Chas. D., 70 Murray, New York
Splitdorf, C. F. ("Splitdorf"), 261 Walton av, New York

Cable Railways

(See Wire Rope Tramways)

Cables (Rubber Covered)

(See Wire, Rubber Covered)

Cables (Submarine & Lead Encased)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Atlantic Insulated Wire & Cable Co., 120 Liberty, New York

Bay State Insulated Wire & Cable Co., Hyde Park, Mass.
Bishop Gutta Percha Co., 422 E 25th, New York
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
Habirshaw Wire Co., 253 B'way, New York
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
Indiana Rubber & Insulated Wire Co. ("Paranite"), Jonesboro, Ind.
KERITE INSULATED WIRE & CABLE Co. ("Kerite"), 30 Church, New York. (See adv. index, end of book)
Moore, Alfred F., 200 N 3d, Phila., Pa.
National Conduit & Cable Co., 41 Park row, New York
National India Rubber Co., Bristol, R. I.
New York Insulated Wire Co., 114 Liberty, New York

Cables (Suspension Bridge)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Roebbling's, John A. Sons Co., of N. Y., 117 Liberty, New York
TRENTON IRON CO., Trenton, N. J., & 30 Church, New York. (See adv. index, end of book)

*Cables (Underground)

KERITE INSULATED WIRE & CABLE Co. ("Kerite"), 30 Church, New York. (See adv. index, end of book)
OKONITE CO. (Ltd.), 253 B'way, New York. (See adv. index, end of book)

Cables (Weatherproof)

(See Wire, Weatherproof)

Cableways (Sewer & Trench Excavating)

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
New York Cable & Engineering Co., 1 Rector, New York

Cableways (Wire Rope)

(See Wire Rope Tramways)

Cadgers (Mining)

Gem Mfg. Co. ("Gem" Steel, for Miners' Oil Reserve Supply), Pittsburg, Pa.

*Cadmium

LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

Cages (Mine)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Bartlett, A. F. & Co., Saginaw, Mich.
CENTRAL IRON WORKS (Self-Dumping Coal), Quincy, Ill. (See adv. index, end of book)
Chalmers & Williams, Commercial Nat'l Bk. Bldg., Chicago, Ill.
Connellsville Machine & Car Co., Connellsville, Pa.
Danville Fdry. & Mach. Co. (Self-Dumping & Ordinary), Danville, Ill.
Davis, F. M. Iron Works Co., Denver, Colo.
Denver Engineering Works Co., Denver, Colo.
Duncan Foundry & Machine Works (Self-Dumping), Alton, Ill.
Eagle Iron Works ("Olsen's" Self-Dumping), Des Moines, Ia.
Ellison, Wm. & Sons Mfg. Co., 1020 N 6th, St. Louis, Mo.
Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo.
Hendy, Joshua Iron Works, San Francisco, Cal.
JEFFREY MFG. CO. (Drop Rail), Columbus, Ohio. (See adv. index & branch offices, end of book)
Lake Shore Engine Works, Marquette, Mich.
Leyner, J. Geo., Engineering Works Co., Littleton, Col.
Litchfield Fdry. & Machine Co. (self-dumping & ordinary), Litchfield, Ill.

Lucas, A. & Sons (Self-Dumping), Peoria, Ill.
MackINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
Marine Iron Co., Bay City, Mich. (See adv. index, end of book)
Milholland, J. & J. B. Co., Pittsburg, Pa.
Mine & Smelter Supply Co., Denver, Colo.
Mineral Ridge Mfg. Co., Mineral Ridge, O.
Nelsonville Foundry & Machine Co., Nelsonville, O.
Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
Ottumwa Iron Works, Ottumwa, Iowa.
Prox, Frank Co., Terre Haute, Ind.
Scottdale Foundry & Machine Co., Scottdale, Pa. ("Robinson" Automatic)
Stine, S. B. (Automatic), Osceola Mills, Pa.
Traylor Engineering Co., Allentown, Pa.
Union Iron Works Co., San Francisco, Cal.
Union Iron Works (Inc.), Spokane, Wash.
Weilman-Seaver-Morgan Co., Cleveland, O.

Caisson Foundations

(See also Bridge Foundations)

Chicago Dock & Canal Co., 34 Clark, Chicago, Ill.
Clark & Co., 100 B'way, New York
Cranford Paving Co., Home Life bldg., Washington, D. C.
Cullen-Friestedt Co., Tribune bldg., Chicago, Ill.
Foundation Co. (Engineers & Contractors, Pneumatic, etc.), 115 B'way, New York
Gahagan, Walter H., 189 Montague, Brooklyn, N. Y.
Great Lakes Dredge & Dock Co., 138 Washington, Chicago, Ill.
Houston, C. B. & Co., 713 Girard bldg, Philadelphia, Pa.
McMullen, Arthur & Co., 13 Park row, New York
Missouri Valley Bridge & Iron Works (A. J. Tullock, Prop.), Leavenworth, Kan.
O'Rourke Engineering Construction Co., 345 5th av, New York
Simplex Foundation Co., North American bldg., Philadelphia, Pa.
Stebbins, W. L., Monadnock blk, Chicago, Ill.
Steers, Henry, 17 Battery pl., New York
Sutter, Jno. H., 108 La Salle, Chicago, Ill.
United Engineering & Cont. Co., 32 E 32d, New York

Caissons (Cast Iron)

Builders' Iron Foundry, Providence, R. I.

Caissons (Sheet Steel)

Aurora Boiler Wks. (Inc.), Aurora, Ill.
Coatesville Boiler Works (Steel), Coatesville, Pa.
East Jersey Pipe Co., Paterson, N. J., & 90 West, New York
ELLICOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
MackINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
Pollock, Wm. B. Co., Youngstown, O.
REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
Ritter-Conley Mfg. Co. (Steel), 56 Water, Pittsburg, Pa., & 111 B'way, New York

*Caissons (Wood)

BALTIMORE COOPERAGE CO., c
Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

Calcium Carbide

Kalbfleisch, Franklin H. Co., B'way & 16th, New York
Rhodes, James H., & Co., 117 Kenzie, Chicago, Ill.
Union Carbide Co., 79 Wall, New York; Works: Niagara Falls, N. Y., & Sault Sainte Marie, Mich.

Calcium Chloride

(See Chloride of Calcium)

Calculagraphs

Calculagraph Co., 9 Maiden la, New York

Calendering Machines

(See Machinery)

Calipers

(See also Gauges, Calliper; also Rules, Caliper; also Squares, Caliper; also Micrometers; also Spherometers)

Athol Machine Co., Athol, Mass.
Belcher Bros. & Co., Irvington, N. J., & 62 Reade, New York
Billings & Spencer Co., Hartford, Conn.
Brown & Sharpe Mfg. Co., Promenade nr Park, Providence, R. I.
Chapin-Stephens Co., Pine Meadow, Conn.
Eagan, Thos. F. Worcester, Mass.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Johnson, Wm. (Hedberg Works), (Registering, Double, Navy, etc.), Newark, N. J.
Krauter & Co. (Register, Outside, Navy, etc.), 577 18th av, Newark, N. J.
Massachusetts Tool Co. (Firm Joint), Greenfield, Mass.
New England Specialty Co., N. Easton, Mass.
Peck, Stow & Wilcox Co., Southington, Conn.
Pratt & Whitney Co., Hartford, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Slocumb, J. T. Co., Providence, R. I.
Smith, E. G., Co. ("Columbia"), Columbia, Pa.
Smith, H. B. Machine Co. (Chisel, for Hand Turning), Smithville, N. J.
STARRETT, L. S. CO. ("Fay"), Athol, Mass. (See adv. index & branch offices, end of book)
Welles, Fred A. (Adjustable, etc.), 419 Sycamore, Milwaukee, Wis.

Calipers (Beam)

Athol Machine Co., Athol, Mass.
Billings & Spencer Co., Hartford, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Smith, E. G. (Graduated), Columbia, Pa.

Calipers (Gear Tooth)

Brown & Sharpe Mfg. Co., Providence, R. I.

Calipers (Log)

Humphrey Machine Co. (Decimal), Keene, N. H.
Keuffel & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.

Calipers (Micrometer)

(See Micrometers)

Calipers (Spring)

Athol Machine Co., Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
STARRETT, L. S. CO. ("Fay"), Athol, Mass. (See adv. index & branch offices, end of book)

Calipers (Vernier)

Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Smith, E. G. Co. ("The Columbia" Metric), Columbia Pa.

Calipers (Winged)

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Johnson, Wm. (Hedberg Works), (Inside & Outside), Newark, N. J.

Calorimeters

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Eimer & Amend, 205 3d av, New York
Ellison, Lewis M. ("Ellison") Throttling-Evaporating, 6238 Princeton av, Chicago, Ill.
Sargent Steam Meter Co. ("Sargent" Gas), 303 Dearborn, Chicago, Ill.
Schaeffer & Budenberg Mfg. Co. ("Carpenters" Throttling, Separating & Coal), 963 Kent av., Brooklyn, N. Y.
Standard Calorimeter Co. ("Parr Standard"), East Moline, Ill.

Cambolts

General Specialty Co. ("B. & S."), 14 S 4th, Philadelphia, Pa.

*Camp Cooking Outfits & Stoves

WILSON, F. CORTEZ & CO., 230 Lake, Chicago, Ill. (See adv. index, end of book)

Camp Stools & Chairs

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
Gold Metal Camp Furniture Mfg. Co., Racine, Wis.
STANLEY WORKS ("Stanley") Folding Camp Stool, New Britain, Conn. (See adv. index & branch offices, end of book)

Cams

Chalmers & Williams ("New Blanton"), Commercial Nat'l Bk. Bldg., Chicago, Ill.
Chester Steel Castings Co., Chester, Pa.
Chrome Steel Works (Canada Chrome Steel, Self-Locking), Chrome, N. J.
Denver Engineering Works Co. (Cam Shafts for Stamp Mills), Denver, Colo.
National Steel Casting Co., Montpelier, Ind.
Power & Mining Machinery Co., Cudahy, Wis.
Union Drop Forge Co. (Drop Forged), Chicago, Ill.

Can Openers

American Cutlery Co. ("The Only"), 193 Mather, Chicago, Ill.
Arcade Mfg. Co. (Steel Blade, Wood Handle), Freeport, Ill.
Bridgeport Hardware Mfg. Co., 461 Iranstan av, Bridgeport, Conn.
Browne, W. G., Mfg. Co. ("None-Such," "I. X. L.," "Shear Cut Clipper," etc.), Kingston, N. Y.
Browne & Dowd Mfg. Co. ("Never-Slip," "XXX," "Diamond," "Crescent," "Sprague," "King" & "Star," with Cork-screw), Meriden, Conn.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Dover Stamping & Mfg. Co. ("Never Slip Monitor," "Central"), Cambridge, Mass.
Ellis Mfg. Co. ("Ever Ready," with Cork Screw & "Little Giant"), Middale, Conn.
Forbes Chocolate Co. ("Vim"), Cleveland, O.
Hamblin & Russell Mfg. Co. ("Ideal"), Worcester, Mass.
Household Necessities Mfg. Co. ("Atlas"), Phila., Pa.
Krauter & Co., Newark, N. J.
Landers, Frary & Clark, New Britain, Conn.
Lasher Mfg. Co. ("O. K." Adjustable), Davenport, Ia.
Meisselbach, A. F. & Bro. ("Columbia"), Newark, N. J.
New England Specialty Co. ("Leavitt's Common Sense," "National," "American"), North Easton, Mass.
Oshorne, C. S. & Co. (Inc.), Newark, N. J.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Read, A. P. Co. ("Read's"), 18 W Randolph, Chicago, Ill.
Rocky Hill Hardware Co., Rocky Hill, Conn.
Smith, J. Barton Co., Norris & Hope, Phila., Pa.
Sterling Hardware Co. ("Sterling"), 10 Warren, New York
Taylor Mfg. Co. ("Yankee," "Nifty" & "Little Gem" Can & Bottle Opener), Hartford, Conn.
White, Ira F., & Son Co. ("Sure Cut"), Newark, N. J.
Wrightsville Hardware Co., Wrightsville, Pa.

Candles (Electric)

Dow Portable Electric Co., Braintree, Mass.
Electric Contract Co., 175 Grand, New York
Tardie, Emile, J., 240 6th av, New York

Candles (Mining)

Goodwin Mfg. Co., St. Louis, Mo.
Great Western Oil Co., 2855 E. 37th S. E., Cleveland, Ohio
Schneider, E. & Co., 277 Dearborn, Chicago, Ill.
Will & Baumer Co., Syracuse, N. Y.

Candles (Plumbers')

Emery Candle Co., Cincinnati, O.
Gross, A. & Co., 90 West, New York
Knapp Mfg. Co., 20 Warren, New York
Schneider, E. & Co., 17 Wabash av, Chicago, Ill.
Standard Oil Co. ("Which Will Tin"), 555 W. 25th, New York
Will & Baumer Co., Syracuse, N. Y.

Candlesticks (Colonial)

American Ring Co. (Brass), Waterbury, Conn.
Buffalo Mfg. Co., Buffalo, N. Y.
Elm City Brass & Rivet Co., Plainville, Conn.
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
JACKSON, WM. H. COMPANY, 29 E. 17th (Union sq.), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)
Janusch Mfg. Co., 496 E 134th, New York
Rostand Mfg. Co., Milford, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
Union Equipment & Bronze Co., 1901 Park av., New York

Cannon (Yacht)

American & British Mfg. Co., Providence, R. I.
Barney & Berry, Springfield, Mass.
Naval Electric Co. ("B. & H."), 95 Liberty, New York
Snow & Petrelli Mfg. Co., 698 Chapel, New Haven, Conn.

Canopies

(See Marquees)

Canopies (Lawn or Umbrella Tents)

Troy Carriage Sun Shade Co. ("Trojan"), Troy, O.

Cans (Ash & Garbage)

American Can Co., 447 W 14th, New York
Arrow Can Co. ("Arrow," Pressed Steel), 35 Warren, New York
Atlantic Stamping Co. ("Atlantic"), Rochester, N. Y.
Brooklyn Ash Can Co., 2196 Fulton, Brooklyn, N. Y.
Central Stamping Co. ("Giant," "Monitor," "Central"), 174 Fulton, New York
Dairymen's Mfg. Co., Jersey City, N. J.
Dover Stamping & Mfg. Co. ("Dover" Galvanized Steel, also with Safety Coal Sieve), Cambridge, Mass.
Durlach, I. (Indestructible), 54 Vesey, New York
EDWARDS MFG. CO. ("Queen" Corrugated), 545-565 Eggleston av, Cincinnati, Ohio. (See adv. index, end of book)
Ely & Williams Co. (Engines), 257 B'way, N. Y.
Gender, Paeschke & Frey Co. ("Cream City"), Milwaukee, Wis.
Guarantee Ash Can Co., 301 E 102d, New York
Honhorst, Joseph Co., Cincinnati, Ohio.
Ironclad Mfg. Co. (Galvanized), 204 Varet, Brooklyn, N. Y.
Justrite Co. ("Justrite"), 218 Lake, Chicago, Ill.
Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburgh, Pa.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Lyon Metallic Mfg. Co., Aurora, Ill.
New England Enameling Co., Middletown, Conn.
North Star Ash Can Co. (Engineers' Steel), 167 Chrystie, New York
Ohio Galvanizing Mfg. Co. (Heavy), Niles, O.
Rochester Ash Can Co., Rochester, N. Y.
Star Enameling & Stamping Co. (Galvanized), Pittsburg, Pa.
Terrace City Mfg. Co. ("I.X.L."), Hoboken, N. J.
Wallace, Jno. W. Co. (With or Without Wood Slats), 44 E 23d, New York
Wotherspoon, Jas. R., 238 N Front, Philadelphia, Pa.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)
Witt Cornice Co. ("Witt's"), Cincinnati, O.

Cans (Automobile Oil)

Dover Stamping & Mfg. Co. (Dover" Cylinder Oil), Cambridge, Mass.

Cans (Gasoline)

Atlantic Stamping Co. ("Atlantic," 1 to 5 gallon, Spout Fancet, etc.), Rochester, N. Y.
Delphos Mfg. Co. ("Legal"), Delphos, O.
Dover Stamping & Mfg. Co. ("Dover"), Cambridge, Mass.

Cans (Glass, Oil)

Ohio Lantern Co. ("Baron" Wire Csh-loned), Tiffin, O.

Cans (Ice)

(See Ice Cans for Artificial Ice)

Cans (Ice Cream)

Buhl Stamping Co., Detroit, Mich.
Crandall & Godley Co. (& Machinery), 157 Franklin, New York
Dairymen's Mfg. Co. ("Sanitary"), Jersey City, N. J.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Stuart & Peterson Co. (Porcelain Lined), Burlington, N. J.
Wallace, Jno. W. Co. ("Wallace" Seamless, etc.), 44 E 23d, New York
White Mountain Freezer Co., Nashua, N. H.

*Cans (Jacket)

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

Cans (Milk)

Buhl Stamping Co., Detroit, Mich.
Clark, W. J. Co., Salem, O.
Dairymen's Mfg. Co. ("Sanitary"), Jersey City, N. J.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Oakes & Burger ("Empire State" & "Union"), Cattaraugus, N. Y.
Republic Metalware Co., Buffalo, N. Y., & 21 Cliff, New York
Sturges & Burn Mfg. Co., 249 S Green, Chicago, Ill.

Cans (Miners' Oil)

Gem Mfg. Co., Pittsburg, Pa.
Hardsocg, Martin Co., Allegheny, Pa.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

Cans (Oil)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
American Auto Brass Co., Columbus, O.
American Can Co., 447 W 14th, New York
American Tube & Stamping Co., Bridgeport, Conn.
Atlantic Stamping Co. ("Atlantic," 1 to 5 gallons, Spout Faucet, etc., for Kerosene & Gasoline), Rochester, N. Y.
Beman Automatic Oil Can Co., Meadville, Pa.
Bloomer, R. E., Keithsburg, Ill.
Brown Stamping Co., Toledo, O.
Bumann Mfg. Co., Litchfield, Ill.
Canners Can Co., Chicago, Ill.
Central Stamping Co., 174 Fulton, New York
Chapman & Brooks ("Special"), Springfield, Mass.
Conneaut Can Co. ("Red Hoop"), Conneaut, O.
Consolidated Fruit Jar Co., New Brunswick, N. J., & 290 B'way, New York
Delphos Mfg. Co. ("Never Leak," Spout or Faucet, etc.), Delphos, O.
Deverall Perfection Mfg. Co. ("Deverall"), Coney Island av & Johnson pl, Brooklyn, N. Y.
Dover Stamping & Mfg. Co. ("Acme," Family & "Dover," Auto, etc.), Cambridge, Mass.
Dressel Railway Lamp Works (Steel for Engineers, etc.), 3800 Park av, New York
Eastern Can Co. ("Household"), Providence, R. I.
Eller Mfg. Co., Canton, O.
Gem Mfg. Co. ("Gem" Heavy Brazed Steel Oil Carriers), Pittsburg, Pa.
Geuder, Paeschke & Frey Co. ("Cream City," Anti-Leak, Galvanized), Milwaukee, Wis.
Gray, Peter & Sons (For Railroad use, etc.), 88 Union, Boston, Mass.
Hall Mfg. Co., 62 Cliff, New York
Handlan-Buck Mfg. Co. (Railway, etc.), St. Louis, Mo.
Harps, J. A. Mfg. Co. ("Never Fall," for Oil or Gasoline, for Household Use), Greenfield, O.
Hunt & Dorman Mfg. Co., Cleveland, O.
Impervious Package Co. (Wood), Keene, N. H.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Jackson, J. W. Sharpville, Pa.
Keichler Mfg. Co., Cincinnati, O.
Knapp Mfg. Co. (Oil Carriers), 20 Warren, New York
Lyon Metallic Mfg. Co., Aurora, Ill.
McClintock & Irvine Co., Pittsburg, Pa.
Manhattan Brass Co., 332 E 28th, New York

Manufacturers Can Co., Newark, N. J.
Many-Use Oil Co. (Reversible Spout), 113 Chambers, New York
Mark Mfg. Co., Evanston, Ill.
Maple City Mfg. Co. ("Standard," for Gasoline & Kerosene, also "Howland" Pump), Monmouth, Ill.
Michigan Lubricator Co., Detroit, Mich.
Melsselbach, A. R. & Bro. ("One Drop"), Newark, N. J.
Morgan & Cornell, 211 Duane, New York
National Enamelling & Stamping Co., 374 B'way, New York
Noera Mfg. Co. ("Nocra"), Waterbury, Conn.
Ohio Lantern Co. ("Ohio" Wire Cushioned), Tiffin, O.
Republic Metalware Co., Buffalo, N. Y.
Rockford Brass Works, Rockford, Ill.
Standard Tin Ware & Mfg. Co., Toledo, O.
Star Enamelling & Stamping Co. (Galvanized), Pittsburg, Pa.
Tongue, R. E. & Bros., Allegheny av. & Amber, Phila., Pa.
Troy Stamping Works, Troy, N. Y.
Union Furnace Mfg. Co., Union Furnace, Pa.
Wall, P. Mfg. Supply Co., Allegheny, Pa.
Wallace, Jno. W. Co. (Storing Oil Cans), 44 E 23d, New York
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)
Winfield Mfg. Co., Warren, O.

Cans (Packers', Etc.)

American Can Co., 447 W 14th, New York
La Crosse Can Co. (Lithographed & Plain Lard, etc.), La Crosse, Wis.
Continental Can Co., Syracuse, N. Y.
Sanitary Can Co. (Enamel Lined, Plain, Etc.), Fairport, N. Y.
Virginia Can Co. (Lock Seam), Buchanan, Va.
Wheeling Can Co., Wheeling, W. Va.

Cans (Paint & Varnish)

American Tube & Stamping Co., Bridgeport, Conn.
Akron Mfg. Co. ("Ideal"), Akron, O.
Dunlap, Jno. Co., Pittsburg, Pa.
Export & Domestic Can Co., 608 W 43d, New York
Louisville Varnish Co., Louisville, Ky.
New Can Co., Boston, Mass.
Southern Can Co. (Enamel Lined, Plain, etc.), Baltimore, Md.
Southern Can Co., Baltimore, Md.
Wallman Mfg. Co., Milwaukee, Wis.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

*Cans (Roving)

AMERICAN VULCANIZED FIBRE CO.,
("Laminar," Fibre & "Sullivan" Seamless Manila Fibre), Wilmington, Del.
(See adv. index, end of book)
DELAWARE HARD FIBRE CO. (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere Del. (See adv. index, end of book)

Cans (Self-Sealing)

Akron Mfg. Co. ("Ideal"), Akron, O.

Cans (Street Cleaning)

Ohio Galvanizing & Mfg. Co. (Sheet Steel), Niles, O.

Cans (Tin)

(See also Cans, Various Kinds, in Index of Contents)

American Can Co., 447 W 14th, New York
American Key Can Co., Marquette bldg, Chicago, Ill.
American Stopper Co., 2 Verona, Brooklyn, N. Y.
American Tube & Stamping Co., Bridgeport, Conn.
Atlantic Can Co., Baltimore, Md.
Ayars, B. S. & Sons Co., Bridgeport, N. J.
Bray & Kates, Arlington Heights, Ill.
Brown Stamping Co., Toledo, O.
Buhl Sons Co., 103 Woodbridge W, Detroit, Mich.
Canister Mfg. Co., Easton, Pa.
Canners Can Co., Chicago, Ill.
Central Stamping Co., 174 Fulton, New York
Chaplin, R. E. Mfg. Works, Batavia, N. Y.
Clark, J. L. Mfg. Co., Rockford, Ill.
Colonial Can Co., Boston, Mass.
Columbia Specialty Co., 1508 E Fayette, Baltimore, Md.

Columbia Stamping & Specialty Co., 247 Van Brunt, Brooklyn, N. Y.
Conneaut Can Co. ("Red Hoop"), Conneaut, O.
Consumers' Can Co. (Packers' Lock Seam), Baltimore, Md.
Continental Can Co. (Fruit & Vegetable), Syracuse, N. Y.
Cream City Can Works, Milwaukee, Wis.
Dunlap, Jno. Co., Pittsburg, Pa.
Excelsior Can Works, 154 Maiden la, New York
Export, Domestic Can Co., 616 W 43d, New York
Falt, Wm. Co., 751 Dolphn, Baltimore, Md.
Grecht, Wm. & Co., 1316 S Sharpe, Baltimore, Md.
Gulf Mfg. Co., New Orleans, La.
Hartlove Can Co., Baltimore, Md.
Heekin Can Co., 3d & Lock, Cincinnati, O.
Hill, Jas. Mfg. Co., Providence, R. I.
Impervious Package Co., Keene, N. H.
Keichler Mfg. Co., Cincinnati, O.
La Crosse Can Co. (Lard, Coffee, Honey, etc., Plain and Lithographed), La Crosse, Wis.
Lecomte & Co., 174 7th, Brooklyn, N. Y.
Louisville Varnish Co., Louisville, Ky.
McGinnis, Jos. Co., Baltimore, Md.
Manufacturers Can Co., 434 Mulberry, Newark, N. J.
Messenger, H. B., Federalburg, Md.
Morgan & Cornell, 211 Duane, New York
National Can Co., Baltimore, Md.
National Can Co., Detroit, Mich.
Neal, W. H., & Sons Co., Hurlock, Me.
New Can Co., 326 A, Boston, Mass.
New Glenwood Canning Co., Glenwood, Iowa
Oaks & Burger, Cattaraugus, N. Y.
Old Dominion Can Co. (Fruit & Vegetable), Troutville, Va.
Old Town Can Co., Baltimore, Md.
Phelps, Walter J., Baltimore, Md.
Platt Can Co., Baltimore, Md.
Republic Metalware Co., Buffalo, N. Y.
Roseland Can & Specialty Co., Rockford, Ill.
Sanitary Can Co. (Tomato, for Whole Tomatoes, etc.), Fairport, N. Y.
Schlueter Mfg. Co., 4626 N B'way, St. Louis, Mo.
Southern Can Co. (Fruit, Syrups, etc.), Baltimore, Md.
Steward, L. & J. A., Rutland, Vt.
Summers, Chas. G. & Co., 415 W Camden, Baltimore, Md.
Trench, D. G. & Co., 42 River, Chicago, Ill.
Tyler Can Co., Baltimore, Md.
United Can Co., 19th & Harrison, San Francisco, Cal.
Wabash Baking Powder Co., Wabash, Ind.
Wallman Mfg. Co., Milwaukee, Wis.
Wheeling Can Co. (Fruit & Vegetable, etc.), Wheeling, W. Va.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)
Wilson, McClelland & Co., Kings Mills, O.
Wright, R. G. & Co., 52 Terrace, Buffalo, N. Y.

Cans (Waste)

Akron Mfg. Co., Akron, O.
Atlantic Stamping Co. ("Atlantic," Galvanized Iron), Rochester, N. Y.
Beman Automatic Oil Can Co., Meadville, Pa.
Central Stamping Co., 174 Fulton, New York
Clark, W. J. Co., Salem, O.
Cleveland Wire Spring Co. (Sheet Metal), Cleveland, O.
Consolid'd Fruit Jar Co., New Brunswick, N. J.
Delphos Mfg. Co. (Self-Closing Oily), Delphos, O.
Dover Stamping & Mfg. Co. (Oily Rag & Waste Can), Cambridge, Mass.
Dressel Railway Lamp Works (Cans & Pails), 3800 Park av, New York
Durlach, L., 54 Vesey, New York
Ely & Williams Co. (Factory Waste & Rubbish), 257 B'way, New York
Geuder, Paeschke & Frey Co. (Galvanized Iron), Milwaukee, Wis.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Justrite Co. ("Justrite"), 218 Lake, Chicago, Ill.
Lyon Metallic Mfg. Co., Aurora, Ill.
McClintock & Irvine Co. (Steel Brazed), Pittsburg, Pa.
Manufacturers' Can Co., Newark, N. J.
Ohio Mfg. Co. (Oily), Painesville, O.
Standard Tin Ware & Mfg. Co., Toledo, O.
Wall, P., Mfg. Supply Co., Allegheny, Pa.
Wallace, Jno. W. Co. ("Wallace" Self-Closing Covers), 44 E 23d, New York
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of book)

Cant-Dogs

Bangor Edge-Tool Co. ("Peary"), Bangor, Me.

Cant Flippers (Steam)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)
Union Furnace Mfg. Co., Union Furnace, Pa.

Canthooks

Anderson, W. H. Tool & Supply Co., 14 Ma-
comb, Detroit, Mich.
Atkins, E. C. & Co. (Inc.), Factories & Home
Offices, Indianapolis, Ind.
Bangor Edge Tool Co. ("Peavy," with Dog
Nose, etc.), Bangor, Me.
Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end
of book)

Champion Tool & Handle Co. ("Champion,"
"Wolverine"), Evert, Mich.
Columbus Handle & Tool Co., Columbus, Ind.
Dicke, C. H. Tool Co., Downers Grove, Ill.
Dupont & Anderson, St. Johnsbury, Vt.
Evert Tool Co. (Ltd.), Evert, Mich.
Gerlach, Peter Co., Columbus rd & Winter,
Cleveland, O.

Jackson Shovel & Tool Co. ("Acme"), Mont-
pellier, Ind., & Market & Randolph, Chi-
cago, Ill.
Keystone Drop Forge Co. (Drop Forged Steel),
Chester, Pa.

Klein, Mathias & Son, 87 W. Van Buren, Chi-
cago, Ill.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Prouty, C. & Co., Eldred, Pa.
Sanford, A. Logging Tool Co., Oshkosh, Wis.
Warren Axe & Tool Co., Warren, Pa.

Capitals (Carved Wood)

(See Carvers, Wood, Classic; also Columns,
Porch, Etc.)

Capitals (Composition)

(See also Ornaments, Composition)

DECORATORS' SUPPLY CO. (Interior
& Exterior), Archer av & Leo, Chicago, Ill.
(See adv. index & branch offices, end of book)
Detroit Column & Mfg. Co., Detroit, Mich.
Emmel, Chas. & Rose Co. (Papier Mache Staff),
383 Albany, Boston, Mass.
Harnisch, Ad., Spencer nr Chlorine Springs,
Syracuse, N. Y.
Hartmann, Malcom Co., 13 N. Jefferson, Chi-
Spangler, Frank Co., Toledo, O., cago, Ill.

Capitals (Plaster)

(See Ornaments, Plastic)

Caps (Bottle)

Bernardin Bottle Cap Co. (Metal), Evansville,
Ind.

***Caps (Bronze)**

GORHAM CO. ARCH'L BRONZE,
5th av & 36th, New York; Works: Provi-
dence, R. I. (See adv. index, end of book)
JACKSON, WM. H. COMPANY, 29 E.
17th (Union sq.), New York, & 163 Michigan
av, Chicago, Ill. See adv. index, end of
book)

Union Equipment & Bronze Co., 1901 Park
av, New York

Caps (Chimney)

EDWARDS MFG. CO. (Steel), 545-
565 Eggleston av, Cincinnati, O. (See adv.
index, end of book)

GLOBE VENTILATOR CO. ("Globe"),
Troy, N. Y. (See adv. index, end of book)
Munnsville Plow Co. (Cast Iron), Munns-
ville, N. Y.

Pettingill Chimney Cap Co. (F. C. Nichols,
Prop) ("Pettingill"), Lowell, Mass.
Piedmont Soapstone Co. (Soapstone), 55 Con-
gress, Boston, Mass.; Works: Asbestine,
Va.

Sterling Foundry Co. ("Best" & "Cast Iron"),
Sterling, Ill.

***Caps (Fuse)**

WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of
book)

Caps (Hitching Post)

MackINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)

Munnsville Plow Co., Munnsville, N. Y.
Willcox, Crittenden & Co., Middletown, Conn.

Caps (Hub)

Globe Machine & Stamping Co. (Drawn Steel),
Cleveland, O.
Hayward, S. F. & Co., 39 Park pl., New York
WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of
book)

Caps (Jelly & Tumbler)

Hazel Atlas Glass Co. (Stamped Metal),
Wheeling, W. Va.
Ohio Lantern Co. (Tin), Tiffin, O.

Caps (Miners')

Hardsoeg, Martin Co., Allegheny, Pa.
Lattimore Mfg. Co., St. Clair, Pa.
Luzerne Cap Co. ("Black Diamond"), Wilkes-
Barre, Pa.

Caps (Pipe)

Belcher & Loomis Hardware Co. ("Boss"),
Providence, R. I.
Fox Mfg. Co., Milwaukee, Wis.
Gillett-Vibber Co., New London, Conn.
LUNKENHEIMER CO. (Brass Pipe).
Gen'l Offices, Beekman & Waverly, Cincin-
nati, O. (See adv. index & branch offices,
end of book)

McRAE & ROBERTS CO. (Brass), 227
Campbell av., Detroit, Mich. (See adv.
index, end of book)

Caps (Screw)

Columbia Specialty Co., Baltimore, Md.
Federal Mfg. Co. (Inc.) (Tin), Baltimore, Md.
Illinois Screw Co., Chicago, Ill.
Vogel, Wm. & Bros., Brooklyn, N. Y.
Wirz, A. H., 913 Cherry, Phila., Pa.

***Caps (Uniform, Etc.)**

AMERICAN RAILWAY SUPPLY CO.,
26 Park pl., New York. (See adv. index,
end of book)

Caps (Ventilating)

Wolverine Brass Works, Grand Rapids, Mich.

Capstans

American Ship Windlass Co. (Also Electric),
Providence, R. I.
Chase Machine Co. (Steam), Cleveland, O.
Dunbar Mfg. Co., Northville, Mich.
Edson Mfg. Co. (Steam Bar), Boston, Mass.
FLORY, S. MFG. CO. (Steam), Ban-
gor, Pa. (See adv. index, end of book)
Hyde Windlass Co., Bath, Me.
Marine Iron Works, Clayborn & Southport avs.,
Chicago, Ill.
Relst, Jas. & Son, Pittsburg, Pa.
Rldson Iron & Locomotive Works, San Fran-
cisco, Cal.
Russell, Albert & Sons, Newburyport, Mass.
Whitcomb Bros., Barre, Vt.
Willcox, Crittenden & Co. ("Victor"), Middle-
town, Conn.
Woodstock Hardwood & Spool Mfg. Co. (Wood-
en), Charleston, S. C.

Capstans (Cable Pulling)

Hallett Iron Works, 96 W. Polk, Chicago, Ill.
Harvard Electric Co., 60 W. Van Buren, Chi-
cago, Ill.

Car Builders

(See Cars of Various Kinds)

Car Builders' Earthenware

bellmark Pottery Co., Trenton, N. J.

Car Bumping Posts

(See Posts, Car Bumping)

Car Ceilings

American Veneer Co., Kenilworth, N. J.
Frost's Veneer Seating Co., 206 Canal, New York
Indestructible Fibre Co. (Wood Fibre), 4:
B'way, New York
New York Veneer Seating Co. (Veneered Seat-
& Chairs), Jersey City, N. J.
Wallace Supply Co., 23 S. Jefferson, Chi-
cago, Ill.
Woodman, Joel H. (Veneer), Hoboken, N. J.

Car Cleansing Powders & Compounds

Aquart, A. D. (Varnish Renovator), Chemical
bldg., St. Louis, Mo.
Ideal Car Cleaner Co., 228 N. 4th, Phila., Pa.
Imperial Car Cleaner Co., 218 McWhorter,
Newark, N. J.
Indla Alkali Work (The Savogran), Boston,
Mass.
Modoc Soap Co. ("Perfect"), 228 N 4th, Phila-
delphia, Pa.

Car Couplers

(See Couplers, Car)

Car Curtains & Materials

Boston Artificial Leather Co., Stamford, Conn.,
& 1 Madison av, New York
Boyle, Jno. & Co. (Cotton Duck & Curtain
Strips), 112 Duane, New York
Brill, J. G. Co., 63d & Woodlawn, Phila., Pa.
Curtain Supply Co., 87 Ohio, Chicago, Ill.
Dayton Mfg. Co., Dayton, O.
Forsyth Bros., 31 Indiana, Chicago, Ill.
Garford Co., The, Elyria, O.
Hale & Kilburn Mfg. Co., 1315 Walnut, Phila-
delphia, Pa.
Lewis, Rob't Co., Richmond & Brill, Phila.,
Pa.
National Lock Washer Co. (Complete Curtains
& Fixtures), 63 Johnson, Newark, N. J.
Pantasote Leather Co., 11 B'way, New York

Car Doors & Fittings

AMERICAN METAL DOOR CO. (Car
Doors), Jamestown, N. Y. (See adv. index,
end of book)
Burdett-Rowntree Mfg. Co. (Automatic Car
Door), 85 W Jackson boul, Chicago, Ill., &
& 147 W 26th, New York
Camel Co. (Security), Old Colony bldg, Chi-
cago, Ill.
Chicago Grain Door Co., Monadnock bldk, Chi-
cago, Ill.
DAHLSTROM METALLIC DOOR CO.
(Car Doors), Jamestown, N. Y., & 299
B'way, New York. (See adv. index & branch
offices, end of book)
Dayton Malleable Iron Co. (Fasteners), Day-
ton, O.
Edwards, O. M. Co. (Extension Platform Trap
Doors), Syracuse, N. Y.
Kanaly, M. E. Co., Cambridgeport, Mass.
Kirby Equipment Co. (Grain), Railway Exch,
Chicago, Ill.
McGulre-Cummings Mfg. Co. (Grain, Freight,
etc.), 112 N Sangamon, Chicago, Ill.
Miller, W. A. Elevator Mfg. Co., 115 Pine, St.
Louis, Mo.
National Mfg. & Supply Co., The, 168 Michigan
av, Chicago, Ill.
Osterman Mfg. Co., (Freight "Osterman"
Grain Door), 120th & Peoria, Chicago, Ill.
Pitt Car Gate Co. (Mfrs. Gibbs Vestibule
Door Operating Devices, used in New York
Subway), 136-138 W 24th, New York
Sheffield Car Co. (Grain, etc.), Three Rivers,
Mich.
Smith Car Door Co., Monadnock blk, Chicago,
Ill.
Standard Railway Equipment Co., Nat'l Bank
of Commerce bldg, St. Louis, Mo.
STEARNS, A. T. LUMBER CO., Ne-
ponset, Boston, Mass. (See adv. index, end
of book)
Western Railway Equipment Co. (Western
Flush), Missouri Trust bldg, St. Louis, Mo.

Car Dumpers

BARTLETT, C. O. & SNOW CO.,
French st., Cleveland, O. (See adv. index,
end of book)
BROWN HOISTING MACHINERY CO.,
Cleveland, O., & 26 Cortlandt, New York
(See adv. index, end of book)
Browning Engineering Co., Cleveland, O.
McMyler Mfg. Co., 1799 Columbus rd, Cleve-
land, O. Works: Warren, O.
Wellman-Seaver-Morgan Co., Cleveland, O.

Car Fenders & Wheel Guards

Automatic Fender Co., B'k. of Commerce
Bldg., Minneapolis, Minn.
Baltimore Car-Wheel Co. "The Blackstone",
Baltimore, Md.

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
 Clark Automatic Car Fender Co. ("Clark's" Automatic Fender & Wheel Guard), Decatur, Ill.
 Consolidated Car Fender Co. ("Providence," Fender & Wheel Guard), Providence, R. I.
 Eclipse Railway Supply Co. ("Eclipse," Life Guard), Cleveland, O.
 Electric Service Supplies Co. ("Philadelphia," Fender), 1020 Filbert, Phila., Pa.
 McGuire-Cummings Mfg. Co. ("Royal Flush" Fender), 112 N Sangamon, Chicago, Ill.
MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)
 Parmenter Fender & Wheel Guard Co. ("Parmenter," Fender & Wheel Guard), Boston, Mass.
 Star Brass Works ("Champion"), Kalamazoo, Mich.
 Sterling-Meaker Co., 420 Ogden, Newark, N. J.
 Traction Railroad Equipment Co. ("Hipwood," "Acme"), 60 Wall, New York
 Worcester Railroad Supply Co. ("Worcester" Double Acting Fender), Worcester, Mass.

Car Gates & Guards

Brill, J. G. Co., 62 & Woodland av., Phila., Pa.
 Brownell Patents Co., 219 N 4th, St. Louis, Mo.
 Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.
 Hardware & Woodenware Mfg. Co. (Wood), 826 B'way, New York
 Pitt Car Gate Co. (Mfrs. Pitt Car Gates used on B. R. T. Elevated & Surface Cars), 136-138 W. 24th, New York
 Smith & Wallace ("The Sargent"), Woburn, Mass.
 Union Equipment & Bronze Co., 1901 Park av., New York

Car Hauls

BARTLETT, C. O. & SNOW CO.
 ("Green" Self-Dumping), French st., Cleveland, O. (See adv. index, end of book)
 Dodge Mfg. Co., Mishawaka, Ind.
JEFFREY MFG. CO. (Wire Cable or Chain) Columbus, O. (See adv. index & branch offices, end of book)
 Nelson Foundry & Machine Co., Nelsonville, Ohio

Car Journal Coolers

Cook Car Journal Co., Flint, Mich.

Car Lighting Apparatus

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
BLISS ELECTRIC CAR LIGHTING
 Co., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Commercial Acetylene Co., 80 B'way, New York
 Consolidated Car Heating Co. ("McElroy" Automatic Axle Lights), 42 B'way, New York
 Works: Albany, N. Y.
 Consolidated Railway Electric Lighting & Equipment Co. (Automatic Electric Car Axle), 11 Pine, New York
 Gold Car Heating & Lighting Co., 17 Battery Place, New York
 Gould Storage Battery Co., 347 5th av, New York
 Safety Car Heating & Lighting Co. ("Pintsch" Light), 2 Rector, New York
 United States Light & Heating Co. ("Moskowitz"), 42 B'way, New York

Car Lighting Apparatus (Bliss System)

Bliss Electric Car Lighting Co., Milwaukee, Wis.

Car Link & Pin Machines

(See Machines, Car Link & Pin)

Car Movers or Pushers

(See also Bars, Pinch)

Advance Car Mover Co. ("Advance Never Slip," "Badger Never Slip"), Appleton, Wis.
 Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
 Appleton Car Mover Co. ("Atlas"), Appleton, Wis.
 Boston & Lockport Block Co. ("Giant"), 160 Commercial, Boston, Mass.
CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end of book)
 Dodge Mfg. Co. ("Dodge," Safety Power Car Pullers), Mishawaka, Ind.
FAIRBANKS, MORSE & CO. ("Sam-
son"), Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
 Handlan-Buck Mfg. Co. ("Victor"), St. Louis, Mo.
HILL & GRIFFITH CO. ("Hercules"),
 Cincinnati, O. (See adv. index, end of book)
 Hiltz Wrench & Mfg. Co. ("Never-Slip"), Richmond, N. Y.

IRVING MFG. & TOOL CO. (J. F.
McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)
 Jacobus, P. H. ("Kant Slip"), Millstadt, Ill.
 Marseilles Mfg. Co. ("Samson," "Hercules," Power Car Pullers), Marseilles, Ill.
MINNEAPOLIS STEEL & MACHIN-
ery Co. ("Champion"), Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Mitskun M. Co. ("Giant"), Detroit, Mich.
 Motley, Green & Co. (Inc.), 68 Broad, New York
 Nordyke & Marmon Co. ("N. & M. Co.," Power Car Pullers), Indianapolis, Ind.
 Oshkosh Logging Tool Co. ("Mogul"), Oshkosh, Wis.

Pearson Jack Co. ("The U. S."), Boston, Mass.
PITTSBURGH GAGE & SUPPLY CO.,
 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
 Rowell, G. D. & Son ("Samson," Car & Locomotive Movers), Appleton, Wis.
 Stafford, E. H. Mfg. Co. ("Easy"), 248 Adams, Chicago, Ill.
 Verona Tool Works (Car Pushers or Locomotive Pinch Bars), Verona, Pa., & Pittsburgh, Pa.
WEBSTER MFG. CO. ("SHELDON" COM-
pound Lever; also "Champion," Pinch Bar or Car Mover), 1075 W. 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
 Zelnicker, Walter A. Supply Co. ("Zelnicker," Double Clutch Car Mover), St. Louis, Mo.

Car Platforms (Steel)

(See Platforms, Steel Car)

Car Plush

Aikman, C. M. & Co. (Mohair), 91 5th av, New York
 Chase, L. C. & Co. ("Goat Brand" Mohair Plushes), 89 Franklin, Boston, Mass.
 Goff, D. & Sons (Mohair), Pawtucket, R. I.
 Sanford Mills, Sanford, Me.

Car Pullers

(See Pullers, Car)

Car Pushers

(See Car Movers or Pushers)

Car Replacers

(See Replacers, Car)

Car Seats, Chairs & Fittings

Adams & Westlake Co. (Seats & Chairs), Ontario & N Franklin, Chicago, Ill.
 American Rattan & Reed Mfg. Co. (Rattan Seating), Kingsland & Norman avs, Brooklyn, N. Y.
 American Seating Co., 90 Wabash av, Chicago.
 Barney & Smith Car Co., Dayton, O.
 Frost's Veneer Seating Co. (Veneered), 206 Canal, New York
 Hale & Kilburn Mfg. Co. ("Walkover"), 18th & Lehigh av, Phila., Pa.
 Hartford Woven Wire Mattress Co., Hartford, Conn.
 Heywood Bros. & Wakefield Co. (Seats, etc.), Gardner, Mass., & 195 Canal, New York
 Johnson Chair Co. (Chairs, etc.), 233 N Green, Chicago, Ill.
 Marks Adjustable Chair Co. (Parlor & Reclining Chairs), 50 E 29th, New York
 New York Veneer Seating Co. (Veneered Seats & Chairs), Jersey City, N. J.
 Potter & Stymus, 41st & Lexington av, New York
 Richards Chair-Panel Co. (Reclining, Dining & Wicker Car Chairs), 184 La Salle, Chicago, Ill.
 Scarritt-Comstock Furniture Co. (Seats, Chairs & Reclining Chairs), St. Louis, Mo.
 Wallace Supply Co., 23 S Jefferson, Chicago, Ill., & 26 Cortlandt, New York
 Woodman, Joel H., Hoboken, N. J.

*Car Seats ("Quride's" Covering Only)

QURIDE CO., Syracuse, N. Y. (See adv. index, end of book)

Car Steps & Treads

AMERICAN MASON SAFETY TREAD CO.,
 702 Old South Bldg., Boston, Mass. (See adv. index & branch offices, end of book)
 Consumers' Rubber Co. ("Euclid Treads"), Cleveland, O.
 Quincy-Manchester-Sargent Co. ("Q. & Q. Stanwood" Steel), Plainfield, N. J.
 Universal Safety Tread Co., Boston, Mass.

Car Trimmings

Adams & Westlake Co. (Metal Coach), Ontario, cor N Franklin, Chicago, Ill.

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Emery Wheels, Pearl, Hard
Rubber, Ivory, Etc.

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Diamond Flats for Wire
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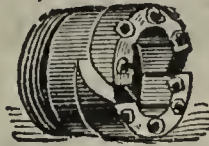
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Carbon Fragments.

CATALOGUES AND PRICES MAILED ON REQUEST.

American Car & Ship Hdw. Mfg. Co. (Brass
& Bronze), New Castle, Pa.
Brill, J. G. Co., 62d & Woodland av, Phila.,
Pa.

Buescher Band Instrument Co., Elkhart, Ind.
Central Union Brass Co., St. Louis, Mo.
Curtain Supply Co., 85 Ohio, Chicago, Ill.
Columbia Machine Works & Malleable Iron Co.
(Metal), 269 Chestnut, Brooklyn, N. Y.
Creamer, W. G. & Co. (Also Trolley Car Trim-
mings), 96 John, New York
Delaware Marine Supply Mfg. Co. (Brass &
Bronze), Wilmington, Del.
Dayton Mfg. Co., Dayton, O.
Edwards, O. M. Co., Syracuse, N. Y.
Halstead & Co. (Brass), 1129 Cherry, Phila.,
Pa.

Handlau-Buck Mfg. Co., St. Louis, Mo.
Howard, Jas. L. & Co. (Metal), Hartford, Conn.
International Register Co., 118 W Jackson boul,
Chicago, Ill.

Ives, H. B. Co., New Haven, Conn.
Kingsland-Kay-Cook Mfg. Co. (Brass & Bronze),
Mullanphy & 11th, St. Louis, Mo.
Kraushaar Brass Mfg. Co. (Street Car, etc.),
St. Louis, Mo.
Loeffelholz Co. (Brass), 170 Clinton, Milwaukee,
Wis.
Midland Metal Co. (Brass & Bronze), 21st &
Jefferson, Phila., Pa.
Wallace Supply Co., 23 S Jefferson, Chicago,
Ill.

Car Truck & Body Bolsters

American Car & Foundry Co., St. Louis, Mo.,
& 25 Broad, New York
American Steel Foundries (Open Hearth Cast
Steel). Main office: Nat'l Bank Bldg.,
Chicago, Ill.

Atha Steel Casting Co., Newark, N. J.
Bettendorf Axle Co., Davenport, Iowa
Buckeye Steel Castings Co. (Open Hearth
Steel), Columbus, O.
Chicago Railway Equipment Co. ("Monitor"),
4054 Princeton av, Chicago, Ill.
Commonwealth Steel Co. (Cast Steel), Bank of
Commerce Bldg., St. Louis, Mo.
Pittsburg Steel Foundry (Open Hearth Steel
Car Bolsters), Pittsburg, Pa.
Scullin-Gallagher Iron & Steel Co. (Cast Steel),
St. Louis, Mo.
Simplex Railway Appliance Co. (Freight, etc.),
Com. Nat'l B'k bldg, Chicago, Ill.; Works:
Hammond, Ind.

Standard Steel Car Co., Frick bldg, Pittsburg,
Pa. Works, Butler, Pa.
Sterlingworth Railway Supply Co. (Rolled
Steel), North American bldg, Philadelphia,
Pa.; Works: Easton, Pa.
Wellman-Seaver-Morgan Co. ("Wellman-Street"
Cast Steel Bolsters), Cleveland, O.

Car Wheel Flasks

(See Molders' Flasks)

*Car Wheel Foundry Plants

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index, end of
book)

Car Wheel Tapes

(See Tapes, Car Wheel Measuring)

Car Wheels

(See Wheels, Car, Etc.)

Car Window Fixtures

Edwards, O. M. Co., Syracuse, N. Y.
Ward, E. J. Co. (Shade Fixtures), 259 Wabash
av, Chicago, Ill.

Car Window Rubbers

(See Rubber Window Cleaners)

Carbanese

Midvale Mining & Mfg. Co. (For Founders),
705 Olive, St. Louis, Mo.

*Carbide Containers

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

Carbide Mfrs.

Union Carbide Co., 79 Wall, New York

*Carbolineum Importers

CARBOLINEUM IMPORTING CO., 13
Jones la, New York
GROSCHKE, BRUNO & CO., 13 Jones
la., New York. (See adv. index, end of book)

Carbon Black Mfrs.

American Carbon Black Co., Warren, Pa.
Binney & Smith Co. (& Blacks of Every De-
scription), 81 Fulton, New York
Cabot, Godfrey L. Co. (Ltd.), Old South bldg,
Boston, Mass.

Carbon Black Mfg. Co. (Ltd.), Kane, Pa.
Castle Brook Carbon Black Co., Williamsport,
Pa.

Columbian Carbon Co., Williamsport, Pa., &
Weston, W. Va.
Davidson, Jas. H. (Inc.), 239 Front, New York
Hyde Carbon Black Co., Ridgway, Pa.
Mount Jewett Carbon Co., Mount Jewett, Pa.
Peerless Carbon Black Co., Kane, Pa.
Osborn, Clarence J. (Broker), 284 Pearl, New
York
Salberg Black Co., Ridgway, Pa.
Seaver & Co., 120 Milk, Boston, Mass.
Weston Carbon Co., Warren, Pa.

Carbon Mfrs.

International Acheson Graphite Co. (Pure), Ni-
agara Falls, N. Y.
Lamson, Jno. S. & Bro., 84 William, New York

Carbonate of Barytes

(See also Barytes)

DOGGETT, STANLEY, 101 Beekman,
New York. (See adv. index, end of book)
Gabriel & Schall (Pure Precipitated), 205 Pearl,
New York

Carbonators

Elshop & Babcock Co. ("Eureka"), 49th &
Hamilton av., Cleveland, O.
Frankard, C. J. & Sons, Troy, N. Y.

Carbons (Arc Light)

American Carbon & Battery Co., East St. Louis,
Ill.
Cary, Edw. E. Co. ("Fabius Henriou," Import-
ed), 61 Park pl, New York
Frorup, L. E. & Co. ("Areco," Imported), 232
Greenwich, New York
Kiewert, Chas. L. Co. ("Siemens," Importers),
Milwaukee, Wis.
National Carbon Co., Cleveland, O.
Reisinger, Hugo ("Electra," "Nuenberg," Im-
porters), 11 B'way, New York

Carbons (Battery)

American Carbon & Battery Co., East St.
Louis, Ill.
Cary, Edw. E. Co. ("Fabius," "Henriou," Im-
porters), 59 Park pl, New York
Eastern Carbon Works, Jersey City, N. J.
Kiewert, Chas. L. Co. ("Siemens," Importers),
Milwaukee, Wis.
National Carbon Co., Cleveland, O.
Speer Carbon Co., St. Marys, Pa.
Stackpole Battery Co., St. Marys, Pa.
Wolff, Alfred & Co. (Importers), 45 Vesey, New
York

Carbons (Black Diamonds) & Bortz

Bandler, Bernard & Son (For All Mechanical
Purposes), 65 Nassau, New York
Baszanger, J. & Co. (Also Rough Diamonds), 108
Fulton, New York
Demmert, Henry & Co., 14 John, New York
**DESSAU'S, S. SONS (For all Me-
chanical Purposes), 180 B'way, New York.**
(See adv. index, end of book)
Diamond Drill Carbon Co., 17 Frankfort, New
York
Francis & Co., Hartford, Conn.
Nix, Carl Ludwig, 49 Maiden La., New York
Rose, S. Co., 20 John, New York

*Carbons (Diamond Drill)

**DESSAU'S, S. SONS (Also Bortz for
All Mechanical Purposes), 180 B'way, New
York. (See adv. index, end of book)**

Carbons (Searchlight)

National Carbon Co., Cleveland, O.

*Carborundum Grains & Brick

**HARRISON SUPPLY CO. (For Marble
& Granite Polishing), 5 & 7 Dorchester av
ext, Boston, Mass. (See adv. index, end of
book)**

Carbureters

A. & J. Mfg. Co., 15 S Canal, Chicago, Ill.
 American Carbureter Co., 29 E. Atwater, Detroit, Mich.
 Bates Automobile Co., Lansing, Mich.
 Bradford Motor Works, Bradford, Pa.
 Breeze Carbureter Co., Newark, N. J.
 Brennan Motor Co., Syracuse, N. Y.
 Buffalo Carbureter Co., 889 Main, Buffalo, N. Y.
 Byrne, Kingston Co. ("Kingston"), Kokomo, Ind.
 Clark Carbureter Co., Society for Savings bldg, Cleveland, O.
 Clemick-Hirsh Co., 594 Milwaukee, Wis.
 Continental Motor Mfg. Co., Muskegon, Mich.
 Dow Portable Electric Co. ("Methot"), Braintree, Mass.
 Dyke, A. L. Automobile Supply Co., Olive & Walton, St. Louis, Mo.
 Eilerslie Mfg. Co., Rochester, N. Y.
 Essex Brass Co., 480 Franklin, Detroit, Mich.
 Fairmount Engineering Wks, 3205 Spring Garden, Phila. Pa.
 Fast Machine & Tool Co., 24th & Greenfield av, Milwaukee, Wis.
 Garllus, B. ("Garllus" Automatic), Madison, Wis.
 Gilbert, Fred. E., Jacksonville, Fla.
 Globe Machine & Stamping Co., 970 Hamilton, Cleveland, O.
 Gould Manufacturing Co., Trenton, N. J.
 Hall, Chas. E. Co. ("Hall"), Buffalo, N. Y.
 Hatcher Auto Parts Co., 138 Viaduct, Cleveland, Ohio
 Hendricks Novelty Co. ("Stevenson"), Indianapolis, Ind.
 Holley Bros. Co. (Holley), 688 Beaubien, Detroit, Mich.
 Imperial Brass Mfg. Co., 242 S. Jefferson, Chicago, Ill.
 Lake Shore Engine Works ("New Superior"), Marquette, Mich.
 Lamson Machine Co., Abington, Mass.
 Lear, Oscar Automobile Co., Columbus, O.
 Lysman Mfg. Co., 634 Grand av, Beloit, Wis.
 Loomis Autocar Co., Westfield, Mass.
 Massnick Mfg. Co., 671 E Atwater, Detroit, Mich.
 Maxwell & Fitch Co., Rome, N. Y.
 Mayo Damper Co., Pottstown, Pa.
 Michigan Motor Co., Grand Rapids, Mich.
 Milwaukee Motor Co., 615 Clybourne, Milwaukee, Wis.
 Minnesota Boat & Power Works ("Schmidt"), Stillwater, Minn.
 Morgan, B., 86 John, Newport, R. I.
 Mosler, Arthur R. ("Perfect"), 1879 B'way, New York
 Motor Car Power Equipment Co., 577 Grove, Milwaukee, Wis.
 Motor & Mfg. Works Co. ("D. R."), Ithaca, N. Y.
 Murray, W. B., 1253 Milwaukee av, Chicago, Ill.
 Never-Miss Spark Plug Co., Lansing, Mich.
 Newcomb Carbureter Co. (Floatless), 1900 Broadway, New York
 Scott & Sons Co., Medford, Mass.
 Sherwood Manufacturing Co., 1702 Elmwood av, Buffalo, N. Y.
 Speed Changing Pulley Co. ("Universal"), Anderson, Ind.
 Stromberg Motor Devices Co. ("Stromberg"), 1233 Michigan av., Chicago, Ill.
 Walker, B. F. (Adjustable Throttling Ratio), Bridgewater, Conn.
 Wall, R. C. Mfg. Co., 1336 Race, Phila., Pa.
 Waltham Manufacturing Co. ("Orient"), Waltham, Mass.
 Waterfield Motor Co., Anderson, Ind.
 Western Motor Co., Logansport, Ind.
 Wheeler & Schebler ("Schebler"), Indianapolis, Ind.
 Williamson, Thomas G. ("Little Giant"), 8 S 39th, Philadelphia, Pa.
 Winkley Co. (Garillus), Detroit, Mich.

Card Indexes

(See Filing Cabinets & Devices)

*Card Tables (Folding)

BURROWES, E. T. CO., THE, Portland, Me. (See adv. index & branch offices, end of book)

Cards (Index & Guide)

American Business Supplies Co. (Also Reinforced Celluloid Guide Cards), Boston, Mass.
 Standard Index Card Co. (Also Celluloid Tipped Guide Cards), 701 Arch, Phila., Pa.

Carousels, Organs, Etc.

Dentzel, Gustav A., 3641 Germantown av, Phila., Pa.
 Ertel, Geo. Co. (Health Merry-Go-Round), Quincy, Ill.
 Evans & Co. (Steam), Lockport, N. Y.
 Gilile Engine & Machine Co., Tonawanda, N. Y.
 Herachell, Spillman Co. (also Doll Racka, Striking Machinea, Old Women & African Dodger), North Tonawanda, N. Y.
 Mangels, Wm. F., 2941 W 5th, Brooklyn, N. Y.
 Morris, E. Joy, 902 Walnut, Phila., Pa.
 Philadelphia Toboggan Co., 130 E Duval (Gtn), Phila., Pa.
 Queen City Carrousselle Co., South & Evans, Cincinnati, O.

Carpenters & Builders

(See Builders, Contracting; also Contractors, General)

Carpenters' Adze Mfrs.

(See Adze Manufacturers)

Carpet Linings

Bishop, Robert (Estate of), 167 6th, S. B., Boston, Mass.
 Munroe Felt & Paper Co., 77 Summer, Boston, Mass.
 Olmstead & Tuttle Co., Chicopee, Mass.
 Schmidt & Ault Paper Co., York, Pa.
 Union Carpet Lining Co., 79 Summer, Boston, Mass.
 Union Roofing & Mfg. Co. (Corrugated & Plain), St. Paul, Minn.
 WATSON, H. F. CO. (Paper Carpet), Erie, Pa. (See adv. index, end of book)

Carriage Axles

(See Axles, Carriage & Wagon)

Carriage Calls (Electric)

Edwards & Co., 140th & Exterior, New York
 Electric Carriage Call Co. (For Theatres, etc.), 173 Christopher, New York

*Carriage Trimmings

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index end of book)

Carriage Trimmings (Plated)

(See also Hardware Manufacturers, Carriage & Wagon)

Buescher Band Instrument Co., Elkhart, Ind.
 Enterprize Brass & Plating Co., 2838 Spring Grove av, Cincinnati, O.
 Higgin Mfg. Co., Newport, Ky.
 Klenzie, W. F., 92 Ohio, Chicago, Ill.
 Schlegel Mfg. Co., Rochester, N. Y.
 Smith, Jos. N. & Co. (Rails, Handles, Name Plates, etc.), Detroit, Mich.
 White Mfg. Co., Bridgeport, Conn.
 Woodruff, Walter W. & Sons Co., Mount Carmel, Conn.

*Carriages (Cable)

FLORY, S. MFG. CO. (And Full Blocks), Bangor, Pa. (See adv. index, end of book)

Carriages (Children's)

Adams Carriage Co., Canal Dover, O.
 Advance Stamping Mfg. Co. (Semi-Collapsible Go-Carts), Indianapolis, Ind.
 Allen Chair Co., Concord Junction, Mass.
 American Rattan Co., 1606 S 2d, St. Louis, Mo.
 Capital Rattan Co., Indianapolis, Ind.
 Carriage & Toy Co., 737 W Lombard, Baltimore, Md.
 Carter, C. L. & Co., Winchendon, Mass.
 Computing Cheese Cutter Co. (Go-Carts), Anderson, Ind.
 Detroit Rattan & Reed Works, Detroit, Mich.
 Ford & Johnson Co., 16th & Indiana av, Chicago, Ill.
 Gendron Wheel Co., Toledo, O.
 Glascock Bros. Mfg. Co., Muncie, Ind.
 Hardware & Woodenware Mfg. Co. (Rattan Reed, etc.), 826 B'way, New York
 Hartahorn, C. H., Gardner, Mass.
 Heinz & Munachauer, Superior & Randall, Buffalo, N. Y.

Heywood Bros. & Wakefield Co., Gardner, Mass.
 Hill-Standard Mfg. Co., Anderson, Ind.
 Huke, Wm. Rattan & Willow Ware Mfg. Co., 1007 S 7th, St. Louis, Mo.
 Kaiser, Jacob Mfg. Co., St. Louis, Mo.
 Kelly Bros., Gardner, Mass.
 Lloyd Mfg. Co., Minneapolis, Minn.
 May, P. J., New Orleans, La.
 Meinecke Adolph & Son, ft of Mason, Milwaukee, Wis.
 Menke, Chas., 535 E 15th, New York
 National Carriage & Go-Cart Co., Fairbault, Minn.
 National Novelty Corporation (Rattan, Reed, etc.), 828 B'way, New York
 Newark Go-Cart Mfg. Co., 199 Washington, Newark, N. J.
 Newburgh Reed Co., Newburgh, N. Y.
 Noeller's, L. Sona, 47 Locust, Buffalo, N. Y.
 Pahl, E. F. & Co., 1032 3rd, Milwaukee, Wis.
 Paterson, L. S. Pompanoau, Vt.
 Peck & Hillis Furniture Co., c Wabash av & 14th, Chicago, Ill.
 Philadelphia Baby Carriage Factory, 1148 N American, Phila., Pa.
 Piel Bros. Mfg. Co., Madison av & Ray, Indianapolis, Ind.
 Pioneer Mfg. Co., Detroit, Mich.
 Platt, Geo. A., 489 5th av, Brooklyn, N. Y.
 Ramsbell, L. B., Gardner, Mass.
 Rich Bros., 122 S Howard, Baltimore, Md.
 Rieber, L. & Co., 16 N 4th, Phila, Pa.
 Thayer, H. N. Co., Erie, Pa.
 Toomey, S. & Co., Canal Dover, O.
 Travera, Geo. W., 10 Grand, New York
 Twin City Reed & Rattan Co., 189 W 3d, St. Paul, Minn.
 Waite Chair Co., Baldwinville, Mass.
 Whitney, F. A. Carriage Co. (Also Go-carts and Folding Go-carts), Leominster, Mass.
 Whitney Reed Chair Co. (Also Go-carts), Leominster, Mass.
 Withrow Mfg. Co. ("Oriole," "Go-Basket"), 35 Elm, Cincinnati, O.

Carriages (Gun)

Bethlehem Steel Co. (Steel), South Bethlehem, Pa., & 111 B'way, New York
 Builders' Iron Foundry, Providence, R. I.
 Mesta Machine Co., Lewis bldg., Pittsburg, Pa.
 MORGAN ENGINEERING CO. ("Gordon-Morgan" Disappearing, etc.), Alliance, O. (See adv. index & branch offices, end of book)
 Phila. Roll & Machine Co., S 23d & Washington av, Phila., Pa.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Carriages (Saw Mill)

(See Saw Mill Carriages)

Carriages (Tension)

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
 Dodge Mfg. Co., Mishawaka, Ind.
 Link Belt Co., W. 39th cor. Stewart av, Chicago, Ill., & 299 B'way, New York
 Nordyke & Marmon Co. (Vertical & Horizontal), Indianapolis, Ind.
 WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

Carriers (Belt)

(See Conveyors, Belt)

Carriers (Can & Bag, Street Sweeping)

Acme Road Machinery Co., Frankfort, N. Y.
 Monarch Road Roller Co. ("Monarch"), Groton, N. Y.
 Motley, Green Co., 68 Broad, New York
 Strain, J. H., Co. (Can), 85 Front, New York
 Wirt & Kuox Mfg. Co. ("20th Century"), 23 N 4th, Phila., Pa.

Carriers (Dry Kiln Door)

Dry Kiln Door Carrier Co., Indianapolis, Ind.

Carriers (Feed & Litter)

Porter, J. E. Co. ("Porter's" All Steel Track), Ottawa, Ill.

Carriers (Gravity)

(See Conveyors, Gravity)

Carriers (Hay)**CANTON FOUNDRY & MACHINE CO.**
(Steel Track), Canton, O. (See adv. index, end of book)Church Hay Tool Co. ("Church"), Harvard, Ill.
Eagle Mfg. Co. ("Appleton", "Eagle", "Samson"), Appleton, Wis.Eureka Mower Co. ("Clark"), Utica, N. Y.
Farrell, John ("Farrell"), Newton, N. J.
Fultonville Mfg. Co. ("Cross"), Fultonville, N. Y.Goshen Mfg. ("Hercules"), Goshen, Ind.
Hunt-Helm-Ferris & Co. ("Star", "Peerless", "Elephant", "Harvard", "One-Way", "Sling", "Swivel & Reversible"), Harvard, Ill.

Jackson, Byron Machine Works ("Walker"), San Francisco, Cal.

Jordan, R. C. ("Jordan", "Ottawa", "Columb", "Sling"), Fairfield, Iowa

Law Mfg. Co. ("Law's"), Merriam Park, St. Paul, Minn.

Louden Machinery Co. ("Jewell", "Royal", "Victor", & Louden's), Duplex, Cable, Junior & Sling"), Fairfield, Iowa

Milwaukee Hay Tool Co. ("Bloomer Swivel", "Leader", "Cable", "Milwaukee", "Reversible & Swivel, Wood & Steel Track, etc."), Layton Park, Milwaukee, Wis.

Myers, F. E. & Bro. ("Myers" Cable, "Clover Leaf" Combination, "O. K.", "Single Rail, Sure Grip & Unloader), Ashland, O.

Ney, Mfg. Co. ("Genuine Ney"), Canton, O.

Ney, V. L. Co. ("Ney's Latest"), Canton, O.

Porter, J. E. Co. ("Barnes", "Meadow King", "Meadow Queen", "Porter", "Porter's Columbian", "Champions", "Reversible, Sling & Swivel, & "Prairie Queen" Steel Track), Ottawa, Ill.

Ricker Mfg. Co. ("Clicker", "Rochester"), Rochester, N. Y.

Stowell Mfg. & Foundry Co. ("Acme", "Ajax", "Boyd's"), South Milwaukee, Wis.

Strickler Hay Tool Co. ("Strickler", "Deadlock" Steel & Wood Track), Janesville, Wis.

Swineford, G. A. Co. ("Swineford"), Canton, Ohio

Syracuse Chilled Plow Co. ("Syracuse"), Syracuse, N. Y.

U. S. Wind Engine & Pump Co. ("Noyes", "Standard"), Batavia, Ill.

Whitaker Mfg. Co. ("Sterling"), Chicago, Ill.

WHITMAN & BARNES MFG. CO.
("Diamond", "New Acme", Steel & Wood Track, Rod or Cable), Chicago, Ill. (See adv. index & branch offices, end of book)**Carriers (Merchandise)**

(See also Trolleys & Trolley Tracks, Overhead)

Air Line Carrier Co., 200 Monroe, Chicago, Ill.

Allith Mfg. Co. (Overhead Tracks), W Taylor c S 43d av, Chicago, Ill.

Howe Scale Co., of Illinois, 1315 Wabash av, Chicago, Ill.

Hunt-Helm-Ferris & Co. ("Star"), Harvard, Ill.

Myers, F. E. & Bro., Ashland, O.

Ricker Mfg. Co., Rochester, N. Y.

Cars (Air Dump)*McCOY, HENRY J. CO., 65 & 67 Dey,**
New York. (See adv. index, end of book)***Cars (Asphalt)****KILGORE-PETELER CO., Minneapolis,**
Minn. (See adv. index, end of book)**Cars (Ballast)**

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York

Continental Car & Equipment Co., Louisville, Ky.

FAIRBANKS, MORSE & CO., Wabash
av. and Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Goodwin Car Co., 17 Battery pl., New York

KILGORE-PETELER CO., Minneapolis,
Minn. (See adv. index, end of book)**RALSTON STEEL CAR CO., Columbus,**
O. (See adv. index & branch offices, end of book)

Rodger Ballast Car Co., Railway Exchange bldg, Chicago, Ill.

RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of book)

Western Wheeled Scraper Co. (Bottom & Side Dump), Aurora, Ill.

Cars (Barney)*ALLIS-CHALMERS CO., Milwaukee,**
Wis. (See adv. index & branch offices, end of book)**Cars (Billet)**

Akron Cultivator Co., Akron, O.

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York

Archer Iron Works Co., 739 First Nat'l Bank bldg, Chicago, Ill.

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv. index, end of book)

Chase Foundry Mfg. Co., Columbus, O.

Cleveland Car Co., West Park, O.

Gregg Company (Ltd.), Newburgh, N. Y.

Hunt, C. W. Co., West New Brighton, S. I.

Jackson Mfg. Co., Harrisburg, Pa.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

KILGORE-PETELER CO., Minneapolis,
Minn. (See adv. index, end of book)**KOPPEL, ARTHUR CO., Machesney**
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)**NORTHERN ENGINEERING WORKS,**
9 Chene Detroit, Mich. (See adv. index & branch offices, end of book)**RALSTON STEEL CAR CO., Columbus,**
O. (See adv. index & branch offices, end of book)

Stamp, C. E. & Co., Cleveland, O.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)**ERNST WIENER**
•COMPANY.
RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.***Cars (Blue Print)****KILGORE-PETELER CO., Minneapolis,**
Minn. (See adv. index, end of book)***Cars (Boiler Room)****ERNST WIENER**
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RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)**Cars (Bottom Dump)**

(See Cars, Drop Bottom; also Cars, Dumping.)

Cars (Brick & Clay)

(See also Trucks, Brick)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York

AMERICAN CLAY MACHINERY CO.
(Steel & Wood), Bucyrus, O.

Arnold-Creager Co., New London, O.

ATLAS CAR & MFG. CO., THE (Also Metal,
Brick & Drying Cars, Sand, Lime, Brick, Deck, etc.), 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Bonnot Company, Canton, O.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Chambers Bros. Co., 52d, below Lancaster av, Phila., Pa.

Chase Foundry & Mfg. Co., Columbus, O.

Cleveland Car Co., West Park, O.

Continental Car & Equipment Co., Louisville, Ky.

Freese, E. M. & Co., Gallon, O.

Fulton Foundry & Machine Works, Atlanta, Ga.

Gregg Co. (Ltd.), Newburgh, N. Y.

Helmick Fdry & Machine Co., Fairmont, W. Va.

Horton Mfg. Co. (Clay, Dumping, etc.), Painesville, O.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

KILGORE-PETELER CO., Minneapolis,
Minn. (See adv. index, end of book)**KOPPEL, ARTHUR CO., Machesney**
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)**MARYLAND EQUIPMENT & SUPPLY**
Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Ohio Ceramic Engineering Co. (Deck, Rack, Flat, etc.), Berea rd, Cleveland, O.

Peacock's Iron Works (Iron, Steel & Wood), Selma, Ala.

RALSTON STEEL CAR CO., Columbus,
O. (See adv. index & branch offices, end of book)

Raymond, C. W. Co., Dayton, O.

RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)

Sackett, H. B., Screen & Chute Co., 4210 State, Chicago, Ill.

Scott's Patent Brick Car Co., Knoxville, Tenn.

Sheffield Car Co. (Steel & Wood), Three Rivers, Mich.

Steele, J. C. & Son, Statesville, N. C.

Stuart, R. J. & T. H., New Hamburg, N. Y.

Stuebner, G. L. Iron Works, 12th & Vernon av, Long Island City, N. Y.

Treadwell, M. H. Co., 90 West, New York

Truax Mfg. Co. (John T. Plummer, Prop.) (Two Way Rock Dump), Denver, Colo.

Wellington Machine Co., Wellington, O.

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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.***Cars (Bridge Builders' Derrick)****AMERICAN HOIST & DERRICK CO.**
(Self-Propelling), St. Paul, Minn. (See adv. index & branch offices, end of book)**Cars (Bridge Gang)**

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)**FAIRBANKS, MORSE & CO., Wabash av.**
& Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.

KILGORE-PETELER CO., Minneapolis,
Minn. (See adv. index, end of book)**KOPPEL, ARTHUR CO., Machesney**
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Sheffield Car Co., Three Rivers, Mich.

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RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)***Cars (Calcine)****ATLAS CAR & MFG. CO., THE, 1289 Mar-**
quette rd., N. E., Cleveland, O. (See adv. index, end of book)**Cars (Canopy)****CAREY, GEO. H., 1 B'way, New**
York. (See adv. index, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Ramapo Iron Works, Hillburn, N. Y.

Sheffield Car Co., Three Rivers, Mich.

South Baltimore Steel Car & Foundry Co., Continental bldg, Baltimore, Md.

Cars (Charging)

Akron Cultivator Co., Akron, O.

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv. index, end of book)**CAREY, GEO. H., 1 B'way, New**
York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.

Cleveland Car Co., West Park, O.

Conveying Machine Co. (Balance Sheet), 120 Liberty, New York

Gregg Co. (Ltd.), Newburgh, N. Y.

Hoshor-Platt Co. (Balance Steel), 120 Liberty, New York

Hunt, C. W. Co., West New Brighton, N. Y.

Kilbourne & Jacobs Mfg. Co. (Annealing Furnace, etc.), Columbus, O.

KILGORE-PETELER CO., Minneapolis,
Minn. (See adv. index, end of book)**KOPPEL, ARTHUR CO., Machesney**
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Link Belt Co. (Drop Side, etc.), W. 39th cor. Stewart av, Chicago, Ill.

Ohio Ceramic Engineering Co., Cleveland, O.

Power & Mining Machinery Co., Cudahy, Wis.

RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices,
end of book)
RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)
Schalkenbach & Budke, Jersey City, N. J.
Stamp, C. E. & Co., Cleveland, O.
Stuebner, G. L. Iron Works, 12th & Vernon av.,
Long Island City, N. Y.

Treadwell, M. H. Co., 90 West, New York;
Works: Lebanon, Pa.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New
York; Works: Newburgh, N. Y.
Variety Iron & Steel Works Co., Cleveland, O.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
-COMPANY-

475 Fulton bldg, New York. (See adv. in-
dex & branch offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.

***Cars (Charging, Open Hearth)**

MORGAN ENGINEERING CO., All-
ance, O. (See adv. index & branch offices,
end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
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-COMPANY-

475 Fulton bldg, New York. (See adv. in-
dex & branch offices, end of book)

Cars (Cinder)

(See Cars, Hot Metal or Slag)

Cars (Coal)

American Car & Foundry Co., St. Louis, Mo.
Barney & Smith Car Co., Dayton, O.
Bartlett, A. F. & Co., Saginaw, Mich.
Bettendorf Axle Co. (All Steel), Davenport, Ia.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)
CENTRAL IRON WORKS (Self-
Dumping), Quincy, Ill. (See adv. index,
end of book)

Continental Car & Equipment Co., Louisville,
Ky.
Erie Car Works, Erie, Pa.
Goodwin Car Co., 17 Battery pl., New York
Helmick Fdry & Machine Co., Fairmont, W. Va.
Hicks Locomotive & Car Works, 277 Dearborn,
Chicago, Ill.

Honhorst, Joseph, Co., Cincinnati, O.
Kilbourne & Jacobs Mfg. Co. (Steel, Side Open-
ing, etc.), Columbus, O.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)
Lehigh Car Wheel & Axle Wks., Catasauqua, Pa.
MARYLAND EQUIPMENT & SUPPLY
Co., Calvert & Fayette, Baltimore, Md.
(See adv. index, end of book)

Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
Ohio Ceramic Engineering Co. (Mine, Pit, Ho-
tel, etc.), Cleveland, O.

Peacock's Iron Works, Selma, Ala.
Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
Portland Co., Portland, Me.

Pressed Steel Car Co. (Steel), Pittsburgh, Pa.
RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices,
end of book)

RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.
Stuebner, G. L. Iron Works, 12th & Vernon av.,
Long Island City, N. Y.
Treadwell, M. H. Co., 90 West, New York
Truax Mfg. Co., Denver, Col.
Watt Mining Car Wheel Co., Barnesville, O.
Whitman Agricultural Co. (Wood), 6900 S
B'way, St. Louis, Mo.

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-COMPANY-

475 Fulton bldg, New York. (See adv. in-
dex & branch offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.

***Cars (Coke)**

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)
RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices,
end of book)

***Cars (Concentrate)**

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv.
index, end of book)

Cars (Concrete)

(See also Carts, Concrete)

AMERICAN CONCRETE CO. (Mfrs.
Agents), 80 William, New York. (See
adv. index, end of book)

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv.
index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
Continental Car & Equip't Co., Louisville, Ky.
Kilbourne & Jacobs Mfg. Co. (Steel End Dump),
Columbus, O.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)
MCCOY, HENRY J. CO., 65 & 67 Dey,
New York. (See adv. index, end of book)

MARYLAND EQUIPMENT & SUPPLY
Co., Calvert & Fayette, Baltimore, Md.
(See adv. index, end of book)

Ohio Ceramic Engineering Co., Cleveland, O.
Queen City Brick Machine Co., Travers City,
Mich.

RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices,
end of book)

Sackett, H. B., Screen & Chute Co., 4210
State, Chicago, Ill.

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ERNST WIENER
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475 Fulton bldg, New York. (See adv. in-
dex & branch offices, end of book)

Cars (Concrete Block)

(See Cars, Concrete)

Cars (Core Oven)

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See
adv. index, end of book)
Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
Cleveland Car Co., West Park, O.
Gregg Co. (Ltd.), Newburgh, N. Y.

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

Hunt, C. W. Co., W. New Brighton, S. I.,
Jackson Mfg. Co., Harrisburg, Pa.
Kilbourne & Jacobs Mfg. Co., Columbus, O.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)

Lyon Metallic Mfg. Co., Aurora, Ill.

NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)

Ohio Ceramic Engineering Co., Cleveland, O.
RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
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475 Fulton bldg, New York. (See adv. in-
dex & branch offices, end of book)

***Cars (Creosoting)**

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

Cars (Derrick or Crane)

(See Cars, Industrial)

Cars (Drop Bottom)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

American Car & Foundry Co., St. Louis, Mo.
ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv.
index, end of book)

Austin Mfg. Co., Manhattan bldg., Chicago, Ill.
Barney & Smith Car Co., Dayton, O.
Bodley Wagon Co., Memphis, Tenn.

Bradford Car & Mfg. Co., Monadnock Blk.,
Buffalo Pitts Co., Buffalo, N. Y.
CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
Chattanooga Car & Foundry Co., Chattanooga,
Cleveland Car Co., West Park, O.
Tenn.

Continental Car & Equip't Co., Louisville, Ky.
Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
Gregg Co. (Ltd.), Newburgh, N. Y.
Haskell & Barker Car Co., Michigan City, Ind.

Helmick Fdry & Machine Co., Fairmont, W. Va.
Hicks Locomotive & Car Works, 277 Dearborn,
Chicago, Ill.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

MCCOY, HENRY J. CO., 65 & 67 Dey,
New York. (See adv. index, end of book)

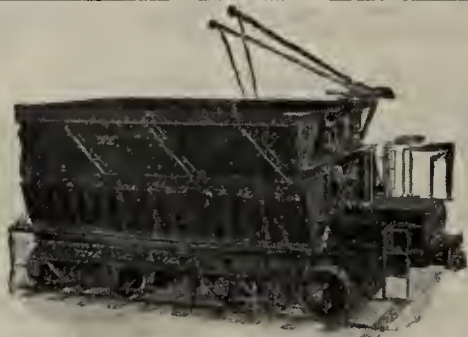
MARYLAND EQUIPMENT & SUPPLY
Co., Calvert & Fayette, Baltimore, Md.
(See adv. index, end of book)

Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
Peacock's Iron Works, Selma, Ala.



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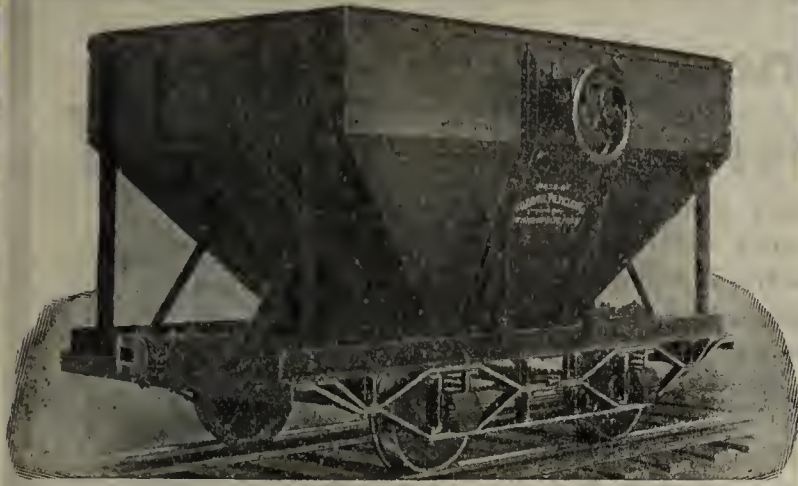


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 Ramapo Iron Works, Hillburn, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Sheffield Car Co., Three Rivers, Mich.
 South Baltimore Steel Car & Foundry Co., Baltimore, Md.
 Whitman Agricultural Co., St. Louis, Mo.

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 Wonham-Magor Engineering Works 29 B'way, New York

Cars (Dryer)

AMERICAN CONCRETE CO. (Mfrs.
 Agents), 80 William, New York. (See adv. index, end of book)
ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Bonnot Company, Canton, O.
CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)
 Chambers Bros. Co., 52d below Lancaster av, Phila., Pa.

Chase Foundry & Mfg. Co., Columbus, O.
 Foeht, Geo. Sons, 119 Adams, Hoboken, N. J.
 Gregg Co. (Ltd.), Newburgh, N. Y.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.

Means Foundry & Machine Co., Steubenville, O.
 North Alabama Eng'g Co., New Decatur, Ala.
 Ohio Ceramic Engineering Co., Cleveland, O.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Scott's Patent Brick Car Co. (And Open-Air Drying System), Knoxville, Tenn.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
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475 Fulton bldg. New York. (See adv. index & branch offices, end of book)
 Wonham-Magor Engineering Works 29 B'way, New York

Cars (Dumping)

(See also Cars, Mine)

American Car & Foundry Co. ("Page" Patent-ed), 915 Olive, St. Louis, Mo., & 165 B'way, New York

AMERICAN CONCRETE CO. (Mfrs.
 Agents), 80 William, New York. (See adv. index, end of book)

American Clay Machinery Co. (Steel & Wood), Bucvrus, O.

Archer Iron Works Co. (Rotary Dumping), 739 First Nat'l Bank bldg, Chicago, Ill.

ATLAS CAR & MFG. CO. (End, Bottom,
 Either Side, Rocker, Rotary, etc.), 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Anstin Mfg. Co., Chicago, Ill.

Bonnot Company, Canton, O.

Buffalo Pitts Co. (Contractors), Buffalo, N. Y.

CAREY, GEO. H., 1 B'way, New
 York. (See adv. index, end of book)

CARLIN'S, THOS. SONS CO. (Contractors'
 Dumping), 1610 River av (North Side), Pittsburg, Pa. (See adv. index, end of book)

Catawissa Car & Casting Co., Catawissa, Pa.

CENTRAL IRON WORKS, Quincy, Ill.
 (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.

Chattanooga Car & Foundry Co., Chattanooga, Tenn.

Cleveland Car Co., West Park, O.

Continental Car & Equipment Co., Louisville, Ky.

Davis, F. M. Iron Works, Denver, Colo.

Denver Engineering Works, Denver, Colo.

DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO. (Side,
 Rotary, Hopper, Center & Bottom Dump, etc., Wood and Steel), Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index, end of book)

Foeht, Geo. Sons, 119 Adams, Hoboken, N. J.

Gregg Co. (Ltd.), Newburgh, N. Y.

Haskell & Barker Car Co., Michigan City, Ind.

Helmick Fdry & Machine Co., Fairmont, W. Va.

Hicks Locomotive and Car Works (Railroad), 277 Dearborn, Chicago, Ill.

Hunt, C. W., Co., West New Brighton, S. I.

Inter-State Car Co., Indianapolis, Ind. N. Y.

Irwin Foundry & Mine Car Co. (Contractors, etc.), Irwin, Pa.

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

Kalamazoo Railway Supply Co. (Contractors'), Kalamazoo, Mich.

Kilbourne & Jacobs Mfg. Co. (Steel Roeker Slide, Bottom Dump, etc.), Columbus, O.

KILGORE-PETELER CO. (Auto-
 matic Bottom Dump, etc.), Minneapolis, Minn. (See adv. index, end of book)

King-Lawson Car Co. ("King-Lawson," All Steel, Right or Left Dump), 17 State, New York

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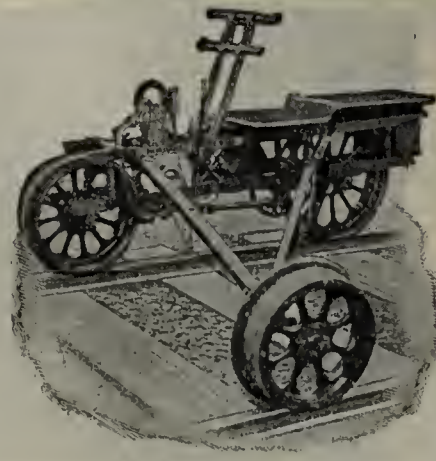
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bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)

Lawson Car Co., Park row bldg, New York
Lima Locomotive & Machine Co. (Steel), Lima, O.
Link Belt Co. (Slide & Bottom Dump, etc.), W.
39th c Stewart av, Chicago, Ill.

Luedinghaus-Espenschild Wagon Co., St. Louis,
Mo.

McCOY, HENRY J. CO., 65 & 67 Dey,
New York. (See adv. index, end of book)

MARYLAND EQUIPMENT & SUPPLY
Co., Calvert & Fayette, Baltimore, Md.
(See adv. index, end of book)

MEAD-MORRISON MFG. CO., Cam-
bridge (Boston), Mass., & 11 B'way, New
York. (See adv. index & branch offices, end
of book)

Mine & Smelter Supply Co., Denver, Colo.

Mount Vernon Car Mfg. Co., Mount Vernon, Ill.

Ohio Ceramic Engin'g Co. (Steel Body Slide
Rocker Dump, Steel Body End Dump & Wood
Body End Dump), Cleveland, O.

Oliver, Wm. J. Mfg. Co. (Contractors' All Steel
Frame Cars, Automatic Couplers & Air
Brakes), Knoxville, Tenn.

Peacock's Iron Wks. (Steel & Wood), Selma, Ala.

Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.

Port Huron Engine & Thresher Co. (For Haul-
ing Stone, Gravel, etc., for Macadam
Roads), Port Huron, Mich.

Portland Co., Portland, Me.

RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices,
end of book)

Ramapo Iron Works (Side, End & Bottom
Dump), Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)

Sanford-Day Iron Works, Knoxville, Tenn.

SHAW, WILLIS CO., 171 Lasalle, Chi-
cago, Ill. (See adv. index, end of book)

Sheffield Car Co. (End, Side, Rotary, Rocker &
Centre), Three Rivers, Mich.

Stedman's Foundry & Machine Works (For Fer-
tilizer Works), Aurora, Ind.

Stuebner, G. L. Iron Works, 12th & Vernon av,
Long Island City, N. Y.

Treadwell, M. H. Co., 90 West, New York

Truax Mfg. Co. (Jno. T. Plummer, Prop.),
(Steel), 1725 Wazee, Denver, Col.

Turl's, Jno. Sons (End, Side & Bottom), 26
Cortlandt, New York

Union Iron Works (Steel), Hoboken, N. J.

Western Wheeled Scraper Co. (Bottom & Side
Dump), Aurora, Ill.

Whitman, Agl. Co. (Wood & Steel), 6900 S
B'way, St. Louis, Mo.

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dex & branch offices, end of book)

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Youngstown Car Mfg. Co., Youngstown, O.

Cars (Dumping, Railroad)

Bnda Foundry & Mfg. Co., Railway Exchange
bldg, Chicago, Ill. Works: Harvey, Ill.

Goodwin Car Co., 17 Battery pl, New York.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

MARYLAND EQUIPMENT & SUPPLY
Co., Calvert & Fayette, Baltimore, Md.
(See adv. index, end of book)

RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices,
end of book)

*Cars (Electric)

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv.
index, end of book)

*Cars (Fibre)

AMERICAN VULCANIZED FIBRE CO.
(Factory, etc.), Wilmington, Del. (See
adv. index, end of book)

Cars (Flat)

American Car & Foundry Co., 915 Olive, St.
Louis, Mo., & 165 B'way, New York

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv.
index, end of book)

Barney & Smith Car Co. (Steel & Wood),
Dayton, O.

Bettendorf Axle Co. (All Steel), Davenport, Ia.

Bradford Car & Mfg. Co., Monadnock Bldg.,
Chicago, Ill.

Cambria Steel Co., Arcade bldg, Phila., Pa.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

CARLIN'S, THOS. SONS CO. (Con-
tractors'), 1610 River av (North Side),
Pittsburg, Pa. (See adv. index, end of book)

Catawissa Car & Casting Co., Catawissa, Pa.

Chase Foundry & Mfg. Co., Columbus, O.

Continental Car & Equipment Co., Louisville,
Ky.

Erie Car Works, Erie, Pa.

FAIRBANKS, MORSE & CO., Wabash ave.
& Eldredge pl., Chicago, Ill. (See adv.
index & branch offices, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.

Haskell & Barker Car Co., Michigan City, Ind.

Hicks Locomotive & Car Works, 277 Dearborn,
Chicago, Ill.

Hunt, C. W. & Co. (Industrial), West New
Brighton, S. I., N. Y.

Kilbourne & Jacobs Mfg. Co. (Steel, Narrow
Gauge), Columbus, O.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)

Lehigh Car Wheel & Axle Wks., Catasauqua, Pa.

McCOY, HENRY J. CO., 65 & 67 Dey,
New York. (See adv. index, end of book)

MARYLAND EQUIPMENT & SUPPLY
Co., Calvert & Fayette, Baltimore, Md.
(See adv. index, end of book)

Mount Vernon Car Mfg. Co., Mount Vernon, Ill.

Portland Co., Portland, Me.

RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices, end
of book)

Ramapo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)

SHAW, WILLIS CO., 171 Lasalle, Chicago,
Ill. (See adv. index, end of book)

Sheffield Car Co. (Wood), Three Rivers, Mich.

South Baltimore Steel Car & Foundry Co.,
Baltimore, Md.

Stephenson, Jno. Co., Elizabeth, N. J.

Sterlingworth Railway Supply Co., Easton, Pa.

Stuebner, G. L. Iron Works, 12th & Vernon av,
Long Island City, N. Y.

Treadwell, M. H. Co., 90 West, New York

Western Wheeled Scraper Co., Aurora, Ill.

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New York

Youngstown Car Mfg. Co., Youngstown, O.

Cars (Foundry)

Akron Cultivator Co., Akron, O.

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv.
index, end of book)

Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.

Calumet Engineering Works, Harvey, Ill.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.

Cleveland Car Co., West Park, O.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

Gregg Co. (Ltd.), Newburgh, N. Y.

Hartman Co., 1231 N Front, Phila., Pa.

Hay's, Sam'l W., Sons, Pittsburg, Pa.

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

Hunt, C. W. Co., West New Brighton, N. Y.

Jackson Mfg. Co., Harrisburg, Pa.

Kilbourne & Jacobs Mfg. Co. (Steel Cupola,
Flat, etc.), Columbus, O.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)

Lebanon Mfg. Co., Lebanon, Pa.

Ohio Ceramic Engineering Co., Cleveland, O.

RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices,
end of book)

RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.

Treadwell, M. H. Co., 90 West, New York

Variety Iron & Steel Works Co. (For Steel
Works, etc.), Cleveland, O.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

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CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chattanooga Car & Foundry Co., Chattanooga, Tenn.

Continental Car & Equipment Co., Louisville, Ky.

Erle Car Works, Erle, Pa.

Gregg Co. (Ltd.), Newburgh, N. Y.

Hammond, J. & Co., San Francisco, Cal.

Haskell & Barker Car Co., Michigan City, Ind.

HICKS LOCOMOTIVE & CAR

Works, 277 Dearborn, Chicago, Ill.

Keith Car & Mfg. Co., Sagamore, Mass.

KOPPEL, ARTHUR CO., Machesney

bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Laconia Car Co., 100 Boylston, Boston, Mass.

McGuire-Cummings Mfg. Co., 112 N. Sangamon, Chicago, Ill.

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(See adv. index, end of book)

Middletown Car Works, Middletown, Pa.

Milwaukee Car Mfg. Co., Milwaukee, Wis.

Mount Vernon Car Mfg. Co., Mount Vernon, Ill.

Osterman Mfg. Co., 120th & Prince, Chicago, Ill.

Portland Co., Portland, Me.

Pressed Steel Car Co. (Steel), Pittsburg, Pa.

Pullman Co., Pullman bldg, Chicago, Ill.

RALSTON STEEL CAR CO. (Steel & Wooden), Columbus, O. (See adv. index & branch offices, end of book)

Ramapo Iron Works, Hillburn, N. Y.

South Baltimore Steel Car & Foundry Co. (Metal, Wood & Composite), Baltimore, Md.

Standard Steel Car Co. (All Steel & Composite Steel & Wood), Frick bldg, Pittsburg, Pa.

Sterlingworth Railway Supply Co. (Rolled Steel), North American bldg, Phila., Pa.

Treadwell, M. H. Co., 90 West, New York

Western Steel Car & Foundry Co. (Wood & Steel), Old Colony bldg, Chicago, Ill.

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Youngstown Car Mfg. Co., Youngstown, O.

*Cars (Gable Bottom)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

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Chase Foundry & Mfg. Co., Columbus, O.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

Gregg Co. (Ltd.), Newburgh, N. Y.

Hunt, C. W. Co., West New Brighton, N. Y.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney

bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

Ramapo Iron Works, Hillburn, N. Y.

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Duntley Mfg. Co. ("Rockford" Gasoline Motor), 303 Dearborn, Chicago, Ill.

FAIRBANKS, MORSE & CO., Wabash

av & Eldredge pl., Chicago, Ill. (See adv. index, end of book)

Mack Bros. Motor Car Co., Allentown, Pa., & Brooklyn, N. Y.

Sheffield Car Co., Three Rivers, Mich.

Cars (Gondola)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York

Barney & Smith Car Co., Dayton, O.

Cambria Steel Co. (Also Steel Hopper Gondola), Arcade bldg, Phila., Pa.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Continental Car & Equip't Co., Louisville, Ky.

Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.

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RALSTON STEEL CAR CO. (Self-Cleaning Drop Bottom, Capacity 100,000 lbs.), Columbus, O. (See adv. index & branch offices, end of book)

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Cars (Hand Dump)

(See Cars, Dumping)

Cars (Hand & Push)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York

ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.

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Chase Foundry & Mfg. Co., Columbus, O.

Chattanooga Car & Fdry Co., Chattanooga, Tenn.

Continental Car & Equip't Co., Louisville, Ky.

Duntley Mfg. Co. (Gasoline-Electric, Hand), 305 Dearborn, Chicago, Ill.

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av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.

Hunt, C. W. Co., West New Brighton, N. Y.

Kalamazoo Railway Supply Co. (Section), Kalamazoo, Mich.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

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bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lansing Wheelbarrow Co., Lansing, Mich.

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Peacock's Iron Works (Iron & Steel), Selma, Ala.

Portland Co., Portland, Me.

Railway Cycle Mfg. Co., Hagerstown, Md.

RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

Ramapo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Sheffield Car Co. (Steel), Three Rivers, Mich.

South Baltimore Steel Car & Foundry Co., Baltimore, Md., & 66 Beaver, New York

Standard Scale & Supply Co. (Hand), 243 Water, Pittsburg, Pa.

Whitman Agricultural Co. (Wood), 6900 S. B'way, St. Louis, Mo.

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Cambria Steel Co., Arcade bldg, Phila., Pa.

Chase Foundry & Mfg. Co., Columbus, O.

Continental Car & Equip't Co., Louisville, Ky.

Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Cars (Hot Metal or Slag)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Car & Foundry Co., St. Louis, Mo.

ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Byram Co. (Inc.), 435 Guoin, Detroit, Mich.

Cleveland Car Co., West Park, O.

Connelly, D., Boiler Co., Cleveland, O.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

Gregg Co. (Ltd.), Newburgh, N. Y.

Jackson Mfg. Co., Harrisburg, Pa.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney

bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Penna. Engineering Works, New Castle, Pa.

Pollock, Wm. B., Co. ("P. T. Berg." for Clnder & Hot Metal), Youngstown, O.

Ramapo Iron Works, Hillburn, N. Y.

Sheffield Car Co., Three Rivers, Mich.

Treadwell, M. H. Co., 90 West, New York

Union Foundry & Machine Co., Pittsburg, Pa.

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.

Weimer Machine Works Co. (Any Capacity & Style), Lebanon, Pa.

Wellman-Seaver-Morgan Co. ("Dewhurst"), Cleveland, O.

WHITING FOUNDRY EQUIPMENT

Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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Youngstown Car Mfg. Co., Youngstown, O.

Cars (Industrial)

(See also Railways, Industrial & Portable)
Akron Cultivator Co., Akron, O.

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end of book)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York

Buda Foundry & Mfg. Co., Harvey, Ill.
Calumet Engineer Works, Harvey, Ill.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
Chicago Crossing Co., Monadnock bldg, Chi-

cago, Ill.
Cleveland Car Co., West Park, O.

Continental Car & Equip't Co., Louisville, Ky.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works: Niagara Falls, N. Y.

(See adv. index, end of book)
Engineering Works Co., Van Buren, Ark.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.

Hunt, C. W. Co., West New Brighton, N. Y.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

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bus, O. (See adv. index & branch offices, end of book)

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RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)

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Long Island City, N. Y.

Treadwell, M. H. Co., 90 West, New York

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Youngstown Car Mfg. Co., Youngstown, O.

Cars (Ingot)

ATLAS CAR & MFG. CO., THE (Steel),
1289 Marquette rd., N. E., Cleveland, O.

(See adv. index, end of book)

Ryram & Co. (Inc.), Detroit, Mich.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

Gregg Co. (Ltd.), Newburgh, N. Y.

Hunt, C. W. Co., W New Brighton, S. I., N. Y.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Mesta Machine Co., Lewis bldg, Pittsburg, Pa.

Ohlo Ceramic Engineering Co., Cleveland, O.

Sheffield Car Co. (Steel), Three Rivers, Mich.

Stamp, C. E. & Co., Cleveland, O.

Treadwell, M. H. Co., 90 West, New York

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

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Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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(See also Cars, Motor, Inspection)

American Car & Foundry Co., St. Louis, Mo.

Buda Foundry & Mfg. Co., Harvey, Ill.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

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& Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

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KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Light Inspection Car Co., Hagerstown, Ind.

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Co., Calvert & Fayette, Baltimore, Md.

(See adv. index, end of book)

Olds Motor Works ("Oldsmobile"), Lansing, Mich.

Peacock's Iron Works, Selma, Ala.

Sheffield Car Co., Three Rivers, Mich.

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Cars (Ladle)

(See Cars, Foundry)

Cars (Liquid Cinder)

Hartman Co. (End Dump), 1231 N Front, Phila., Pa.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

Welmer Machine Works Co. (Hand or Power Dump, Air, Electric & Steam Power), Lebanon, Pa.

Cars (Logging)

American Car & Foundry Co., St. Louis, Mo.

American Locomotive Co., 25 Broad, New York

Barney & Smith Car Co., Dayton, O.

Butterworth & Lowe, Grand Rapids, Mich.

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Catawissa Car & Casting Co., Catawissa, Pa.

Chase Foundry & Mfg. Co., Columbus, O.

Chattanooga Car & Foundry Co., Chattanooga, Tenn.

Cleveland Car Co., West Park, O.

Climax Mfg. Co., Corry, Pa.

Continental Car & Equipment Co., Louisville, Ky.

Dilley Foundry Co., Pine Bluff, Ark.

Dilley, Geo. M. & Son, Palestine, Tex.

Erie Car Works, Erie, Pa.

FAIRBANKS, MORSE & CO., Wabash ave.
& Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.

Hammond, J. & Co., San Francisco, Cal.

Helmick Fdry & Machine Co., Fairmont, W. Va.

Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.

Holt Mfg. Co., Stockton, Cal.

Kilby Locomotive & Mach. Wks., Anniston, Ala.

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lima Locomotive & Machine Co., Lima, G.

Marshall Car Wheel & Fdry Co., Marshall, Tex.

MARYLAND EQUIPMENT & SUPPLY
Co., Calvert & Fayette, Baltimore, Md.

(See adv. index, end of book)

Mount Vernon Car Mfg. Co., Mount Vernon, Ill.

North Alabama Engineering Co. (for Pole Roads, etc.), New Decatur, Ala.

Ohlo Ceramic Engineering Co., Cleveland, O.

Raleigh Iron Works Co., Raleigh, N. C.

Peacock's Iron Works, Selma, Ala.

Piggott, Wm. Railway & Steel Supply Co., Seattle, Wash.

Portland Co. (Log Bunks), Portland, Me.

RALSTON STEEL CAR CO., Colum-
bus, O. (See adv. index & branch offices, end of book)

Ramapo Iron Works, Hillburn, N. Y.

RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich. (See adv. index, end of book)

Seattle Car Mfg. Co. (Flat Logging Cars), Seattle, Wash.

Sheffield Car Co., Three Rivers, Mich.

Tredegar Co., Richmond, Va.

Union Iron Works Co., Selma, Ala.

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Wonham-Magor Eng'g Wks., 29 B'way, N. Y.

Youngstown Car Mfg. Co., Youngstown, O.

*Cars (Lumber)

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv. index, end of book)

Cars (Mine)

Aetna Foundry & Machine Co., Springfield, Ill.

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end of book)

American Car & Foundry Co., St. Louis, Mo.

ATLAS CAR & MFG. CO., THE, 1289 Mar-
quette rd., N. E., Cleveland, O. (See adv. index, end of book)

Austin Mfg. Co., Manhattan bldg, Chicago, Ill.

Bartlett, A. F. & Co., Saginaw, Mich.

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

CAREY, GEO. H., 1 B'way, New
York. (See adv. index, end of book)

Catawissa Car & Casting Co., Catawissa, Pa.

CENTRAL IRON WORKS, Quincy, Ill.
(See adv. index, end of book)

Chase Foundry & Supply Co., Columbus, O.

Chattanooga Car & Foundry Co., Chattanooga, Tenn.

Cleveland Car Co., West Park, O.

Connellsville Machine & Car Co., Connellsville, Pa.

Continental Car & Equip't. Co., Louisville, Ky.

Cresson Fdry Mach. & Car Co., Ebensburg, Pa.

Danville Foundry & Machine Co., Danville, Ill.

Davis, F. M. Iron Works Co., Denver, Col.

Denver Engineering Works, Denver, Col.

Eagle Iron Works (Coal & Ore), Des Moines, Ia.

Ellison, Wm. & Sons Mfg. Co., 1020 N 6th, St. Louis, Mo.

Engineering Works, Van Buren, Ark.

Exeter Machine Works, Pittston, Pa.

FAIRBANKS, MORSE & CO. (Wood & Steel),
Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Fairmont Mining Machinery Co., Fairmont, W. Va.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.

G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)

Globe Iron Works (Inc.), Stockton, Cal.

Gregg Co. (Ltd.), Newburgh, N. Y.

Gustafson Mfg. Co., Chattanooga, Tenn.

Harman & Hassert, Bloomsburg, Pa.

Haskell & Barker Co., Michigan City, Ind.

Helmick Foundry & Machine Co., Fairmont, W. Va.

Hempfield Foundry, Greensburg, Pa.

Hendrie & Bolthoff Mfg. & Supply Co., Denver, Col.

Herbertson's, J. Sons, Brownsville, Pa.

Herzler & Henninger, Belleville, Ill.

Irwin Foundry & Mine Car Co., Irwin, Pa.

Jackson Mfg. Co., Harrisburg, Pa.

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Karawha Mine Car Co., Charlestown, W. Va.

Kilby Locomotive & Machine Works, Anniston, Ala.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO. (Steel), Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Lake Shore Engine Works, Marquette, Mich.
 Lausling Wheelbarrow Co., Lansing, Mich.
 Lehigh Car Wheel & Axle Wks., Catasauqua, Pa.
 Leyner, J. Geo. Eng'g Wks. Co., Littleton, Col.
 Lima Locomotive & Machine Co., Lima, O.
 Litchfield Foundry & Machine Co., Litchfield, Ill.
MACKINNON BOILER & MACHINE
 Bay City, Mich. (See adv. index, end of book)

MARYLAND EQUIPMENT & SUPPLY
 Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
 Massillon Foundry & Mach. Co., Massillon, O.
 Mine & Smelter Supply Co., Denver, Colo.
 Mineral Ridge Mfg. Co., Mineral Ridge, O.
 Nelsonville Foundry & Machine Co., Nelsonville, O.

Niles Mine & Mill Supply Co., Cleveland, O.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Ottumwa Iron Works, Ottumwa, Ia.
 Peacock's Iron Works, Selma, Ala.
 Phillips Mine & Mill Supply Co. (Steel & Wood), Pittsburg, Pa.

Prox, Frank Co., Terre Haute, Ind.
RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

Ramapo Iron Works, Hillburn, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Sanford-Day Iron Works, Knoxville, Tenn.
 Scott's Patent Brick Car Co., Knoxville, Tenn.
 Sheffield Car Co. (Steel), Three Rivers, Mich.
 South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Spicer Mfg. Co., New Philadelphia, O.
 Star Mfg. Co., New Lexington, O.
 Stine, S. B., Osceola Mills, Pa.
 Suppes Forge & Foundry Co., Johnstown, Pa.
 Treadwell, M. H. Co., 90 West, New York
 Truax Mfg. Co., Denver, Col.
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York
 Watt Mining Car Wheel Co. (Steel, etc.), Barnesville, O.

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 Wonham-Magor Eng'g Wks., 29 B'way, N. Y.
 Youngstown Car Mfg. Co., Youngstown, O.

*Cars (Motor, Gasoline & Electric)

HICKS LOCOMOTIVE & CAR WORKS,
 277 Dearborn, Chicago, Ill.

Cars (Motor, Inspection)

(See also Cars, Inspection; also Cars, Velocipede)

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
 Duntley Mfg. Co. ("Rockford," Gasoline Motor), 303 Dearborn, Chicago, Ill.

FAIRBANKS, MORSE & CO. (Gasoline),
 Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
 Kalamazoo R'y Sup. Co., Kalamazoo, Mich.
 Light Inspection Car Co., Hagerstown, Ind.
 Olds Motor Works (Gasoline), Lansing, Mich.
 Sheffield Car Co. (Steel), Three Rivers, Mich.
 Stover Motor Car Co., Freeport, Ill.

*Cars (Orange & Banana)

ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Cars (Ore)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Car & Foundry Co., St. Louis, Mo.
 Archer Iron Works Co. (Steel Dumping), 379 La Salle, Chicago, Ill.

ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Barney & Smith Car Co., Dayton, O.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
 Chase Foundry & Mfg. Co., Columbus, O.
 Cleveland Car Co., West Park, O.

Continental Car & Equip't Co., Louisville, Ky.
 Davis, F. M. Iron Works Co., Denver, Col.
 Denver Engineering Works Co., Denver, Col.
 Eagle Iron Works, Terra Haute, Ind.
 Erie Car Works, Erie, Pa.

FAIRBANKS, MORSE & CO. (Steel & Wood), Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
G. & W. MFG. CO., 26 Cortlandt,
 New York. (See adv. index, end of book)

Globe Iron Works (Inc.), Stockton, Cal.
 Goodwin Car Co., 17 Battery pl., New York
 Gregg Co. (Ltd.), Newburgh, N. Y.

Haskell & Barker Car Co., Michigan City, Ind.
 Hendy, J. Machine Works, 38 Fremont, San Francisco, Cal.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Leigh Car Wheel & Axle Works, Catasauqua, Pa.
 McFarlane Mfg. Co., Denver, Colo.

MARYLAND EQUIPMENT & SUPPLY
 Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Mine & Smelter Supply Co., Denver, Colo.
 Mount Vernon Car Mfg. Co., Mount Vernon, Ill.

National Iron Works (Inc.), Spokane, Wash.
 North Alabama Eng'g Co., New Decatur, Ala.
 Ohio Ceramic Eng'g Co., Cleveland, O.

Peacock's Iron Works, Selma, Ala.
RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

Ramapoo Iron Works, Hillburn, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.
 Silver Bros. Iron Wks. Co., Salt Lake City, Utah

Stuebner, G. L. Iron Works, Long Island City, New York
 Traylor Engineering Co. Works, Allentown, Pa.

Treadwell, M. H. Co., 90 West, New York
 Truax Mfg. Co., Denver, Col.

Union Iron Works (Inc.), Spokane, Wash.
 Watt Mining Car Wheel Co., Barnesville, O.

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 Wonham-Magor Eng'g Wks., 29 B'way, N. Y.

Cars (Passenger)

American Car & Foundry Co., St. Louis, Mo.
 Barney & Smith Car Co., Dayton, O.

Brill, J. G. Co., 62d & Woodland av., Phila., Pa.
 Buckley, T. H. Mfg. Co., Worcester, Mass.

FAIRBANKS, MORSE & CO. (Gasoline Motor, Self-Propelled), Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Hammond, Jno. & Co., 2d & Townsend, San Francisco, Cal.
 Harlan & Hollingsworth Corporation, Wilmington, Del.

HICKS LOCOMOTIVE & CAR WORKS,
 277 Dearborn, Chicago, Ill.

Jewett Car Co., Newark, O.
KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Laconia Car Co. Works, 100 Boylston, Boston, Mass.
 McGuire-Cummings Mfg. Co., W. Chicago, Ill.

MARYLAND EQUIPMENT & SUPPLY
 Co. (Dealers), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Niles Car & Mfg. Co., Niles, O.
 Pressed Steel Car Co. (All Steel), Pittsburg, Pa.

Pullman Co., Pullman bldg., Chicago, Ill.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
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475 Fulton bldg., New York. (See adv. index & branch offices, end of book)

*Cars (Pile Driver)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

Cars (Pipe)

(See Cars, Plate & Sheet Mill)

Cars (Pit)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
 Hehnlek Fdry & Machine Co., Fairmont, W. Va.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 United Iron Works Co., Springfield, Mo.

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Cars (Plantation)

American Car & Foundry Co., St. Louis, Mo.
 Apex Equipment Co., 11 B'way, New York

ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Bodley Wagon Co., Memphis, Tenn.
 Buda Foundry & Mfg. Co., Harvey, Ill.

Cagney Bros, 74 B'way, New York.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
 Chattanooga Car & Foundry Co., Chattanooga, Tenn.

Cleveland Car Co., West Park, O.
 Continental Car & Equip't Co., Louisville, Ky.

FAIRBANKS, MORSE & CO., Wabash ave. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
G. & W. MFG. CO., 26 Cortlandt,
 New York. (See adv. index, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.
 Hammond, Jno. & Co., San Francisco, Cal.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Kalamazoo Railway Supply Co. (Cane), Kalamazoo, Mich.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Kilby Locomotive & Machine Works (Cane), Aniston, Ala.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

MARYLAND EQUIPMENT & SUPPLY
 Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Ohio Ceramic Engineering Co., Cleveland, O.
 Peacock's Iron Works, Selma, Ala.

Pioneer Iron Works, 151 William, Bklyn., N. Y.
RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

Ramapo Iron Works, Hillburn, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.
 South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York

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475 Fulton bldg., New York. (See adv. index & branch offices, end of book)

Cars (Plate & Sheet Mill)

ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
 Cleveland Car Co., West Park, O.

Focht, Geo. Sons, 119 Adams, Hoboken, N. J.
 Gregg Co. (Ltd.), Newburgh, N. Y.

Hunt, C. W. Co., West New Brighton, S. I.
 Jackson Mfg. Co., Harrisburg, Pa.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Sheffield Car Co. (Steel), Three Rivers, Mich.
 Weiner Machine Works Co., Lebanon, Pa.

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Cars (Pole Road)

Butterworth & Lowe, Grand Rapids, Mich.
North Alabama Engineering Co., New Decatur, Ala.

Cars (Quarry)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)
Archer Iron Works Co., First Nat'l Bank bldg, Chicago, Ill.
Chase Foundry & Supply Co., Columbus, O.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
MARYLAND EQUIPMENT & SUPPLY CO., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Massillon Foundry & Machine Co. (Steel or Wood), Massillon, O.
Power & Mining Machine Co. (Steel), Cudahy, Wis.
RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)
Truax Mfg. Co. (John T. Plummer, Prop.), Denver, Colo.
Watt Mining Car Wheel Co., Barnesville, O.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

***Cars (Radial)**

ATLAS CAR & MFG. CO., THE, 1289 Marquette Rd., N. E., Cleveland, O. (See adv. index, end of book)

Cars (Refrigerator)

American Car & Foundry Co., St. Louis, Mo.
CAREY, GEO. H., 1 B'way, New York, (See adv. index, end of book)
Erie Car Works, Erie, Pa.
Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.
Milwaukee Car Mfg. Co., Milwaukee, Wis.
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

Cars (Rock)

(See Cars, Quarry)

Cars (Rotary Tunnel)

(See also Cars, Tunnel)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
Ohio Ceramic Engin'g Co. (Steel Body Mining Scoop), Cleveland, O.
Western Wheeled Scraper Co., Aurora, Ill.

Cars (Second-Hand)

(See also Railroad Equipments, Second Hand)

Atlantic Equipment Co., 111 B'way, New York
Baldwin Equipment & Supply Co. (Contractors', Dump, etc.), Fisher bldg, Chicago, Ill.
CAREY, GEO. H., 1 B'way, New York, (See adv. index, end of book)
Cincinnati Equipment Co., Culloms Station, Cincinnati, O.
Fitz-Hugh-Luther Co. (Passenger & Freight), Monadnock blk, Chicago, Ill.
Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.
Inter-State Car Co. (Contractors' Cars & Repairs, etc.), Indianapolis, Ind.
Males Co., First Nat'l Bank bldg, Cincinnati, O. & 26 Cortlandt, New York
MARYLAND EQUIPMENT & SUPPLY CO., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Mitschkun, M. Co. (Second Hand), Chamber of Commerce, Detroit, Mich.
SHAW, WILLIS CO. (Dumping, Flat, etc.), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
Southern Iron & Equipment Co., Atlanta, Ga.
Watson, John B., Drexel Bldg., Phila., Pa.
Wonham-Magor Eng'g Wks., 29 B'way, N. Y.
Zelnicker, Walter A., Supply Co. (All Kinds), St. Louis, Mo.

Cars (Shop)

Akron Cultivator Co., Akron, O.
CAREY, GEO. H., 1 B'way, New York, (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Conveying Machine Co. (Steel), 120 Liberty, New York
Gregg Co. (Ltd.), Newburgh, N. Y.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

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Wonham-Magor Eng'g Wks., 29 B'way, N. Y.
Zering, H. Mfg. Co. (Track & Floor, Platform Track, etc.), Cincinnati, O.

***Cars (Side Dump)**

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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Cars (Skip)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ATLAS CAR & MFG. CO., THE, 1289 Marquette Rd., N. E. Cleveland, O. (See adv. index, end of book)
Chase Foundry & Mfg. Co., Columbus, O.
Cleveland Car Co., West Park, O.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
MARYLAND EQUIPMENT & SUPPLY CO., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.
RANSOME CONCRETE MACHINERY Co. (Self-Dumping), Dunellen, N. J. (See adv. index & branch offices, end of book)
Sheffield Car Co., Three Rivers, Mich.
Stamp, C. E. & Co., Cleveland, O.
Truax Mfg. Co., Denver, Col.
Turl's, Jno. Sons, 26 Cortlandt, New York.
Wellman-Seaver-Morgan Co., Cleveland, O.

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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.

Cars (Slag)

(See Cars, Hot Metal or Slag)

Cars (Spreader)

Buffalo Fitts Co. (Stone Only), Buffalo, N. Y.
Continental Car & Equip't Co., Louisville, Ky.
Mann-McCann Co. ("McCann's" & "Mann" Spreader & Grader), Fisher bldg., Chicago, Ill.
MARYLAND EQUIPMENT & SUPPLY CO., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Western Wheeled Scraper Co., Aurora, Ill.

Cars (Sprinkling, Street Railway)

American Car Sprinkler Co., Worcester, Mass.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Kensington Engine Works Co., Beach c E Berks, Phila., Pa.
McGuire-Cummings Mfg. Co., 112 N Sangamon, Chicago, Ill.
Smith & Wallace (Electric), Woburn, Mass.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Winkler Bros. Mfg. Co., South Bend, Ind.

***Cars (Starch Dryer)**

ATLAS CAR & MFG. CO., THE, 1289 Marquette Rd., N. E., Cleveland, O. (See adv. index, end of book)

Cars (Steam Shovel)

Cleveland Car Co., West Park, O.
Kilbourne & Jacobs Mfg. Co. (Two Way Dump), Columbus, O.

The Ralston Steel Car Company, COLUMBUS OHIO

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KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)
 Marion Steam Shovel Co., Marlon, O.
MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
 South Baltimore Steel Car & Foundry Co., Baltimore, Md.
 Western Wheeled Scraper Co., Aurora, Ill.

Cars (Steel)

American Car & Foundry Co., St. Louis, Mo.
 Barney & Smith Car Co., Dayton, Ohio.
 Bethlehem Steel Co., South Bethlehem, Pa.
 Bettendorf Axle Co. (All Steel), Davenport, Ia.
 Cambria Steel Co., Arcade bldg, Phila., Pa.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
 Chase Foundry & Mfg. Co., Columbus, O.
 Cleveland Car Co. (Industrial), West Park O.
 Continental Car & Equipment Co., 17 Battery pl., New York
 Goodwin Car Co., 17 Battery pl., New York.
 Harlan & Hollingsworth Corp'n, Wilmington, Del.

KILGORE-PETELER CO. (All Steel, Industrial), Minneapolis, Minn. (See adv. index, end of book)
 Lima Locomotive & Machine Co. (Steel Dump), Lima, O.

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
 Ohio Ceramic Engineering Co., Cleveland, O.
 Pressed Steel Car Co. (Street, Tank, Mine, Coal, etc.), Pittsburgh, Pa.

RALSTON STEEL CAR CO. (All Classes of Cars), Columbus, O. (See adv. index & branch offices, end of book)
 Ramapo Iron Works, Hillburn, N. Y.
 South Baltimore Steel Car & Foundry Co., Continental bldg, Baltimore, Md.
 Standard Steel Car Co., Butler, Pa.

Sterlingworth Railway Supply Co. (Rolled Steel, All Kinds), North American bldg, Phila., Pa. Works, Easton, Pa.
 Wellman-Seaver-Morgan Co. (Industrial), Cleveland, O.

Western Steel Car & Foundry Co., Old Colony bldg, Chicago, Ill. & Anniston, Ala.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
 COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
 Youngstown Car Mfg. Co., Youngstown, O.

Cars (Steel Mining or Dump)

American Car & Foundry Co., St. Louis, Mo.
ATLAS CAR & MFG. CO., THE, 1289 Marquette Rd., N. E., Cleveland, O. (See adv. index, end of book)
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
 Continental Car & Equipment Co., 17 Battery pl., New York
 Gregg Co. (Ltd.), Newburgh, N. Y.
 Jackson Mfg. Co. (Side & End Dump), Harrisburg, Pa.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Lansing Wheelbarrow Co., Lansing, Mich.
 Lima Locomotive & Machine Co., Lima, O.
McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)

Ohio Ceramic Engineering Co., Cleveland, O.
 Peacock's Iron Works, Selma, Ala.
 Phillips Mine & Mill Supply Co., Pittsburgh, Pa.
 Pressed Steel Car Co., Pittsburgh, Pa.

Ramapo Iron Works, Hillburn, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Sheffield Car Co., Three Rivers, Mich. (book)
 Standard Steel Car Co. (All Steel & Composite Steel & Wood, Freight), Frick bldg, Pittsburgh, Pa.

Treadwell, M. H. Co., 90 West, New York
 Traux Mfg. Co., 1725 Wazee, Denver, Col.

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ERNST WIENER
 COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

*Cars (Stone)

(See Cars, Quarry)

Cars (Street & Electric)

American Car Co. (See J. G. Brill Co.), St. Louis, Mo.
 American Car & Foundry Co., St. Louis, Mo.
 165 B'way, New York

Barney & Smith Car Co., Dayton, O.
 Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

Buckley, T. H. Car Mfg. Co., Worcester, Mass.
 California Car Works, San Francisco, Cal.
CAREY, GEO. H., B'way, New York. (See adv. index, end of book)

Glucinnati Car Co., Glucinnati, O.
 Danville Car Co. (See J. G. Brill Co.), Danville, Ill.

GENERAL ELECTRIC CO. (Self Propelled), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Hammond, Jno. & Co., San Francisco, Cal.
 Jewett Car Co., Newark, O.
 Jones' J. M. Sons, Watervliet, N. Y.

Kuhlman, G. C. Car Co. (See J. G. Brill Co.), Collinwood, O.
 Laconia Car Co. Works, 100 Boylston, Boston, Mass. Works: Laconia, N. H.

McGuire-Cummings Mfg. Co., 112 N Sangamon, Chicago, Ill.

Niles Car & Mfg. Co., Niles, O.
 Pay-As-You-Enter Car Co., 50 Church, New York

Pressed Steel Car Co. (Pressed Steel), Pittsburgh, Pa.
 Pullman Co., Pullman bldg., Chicago, Ill., & 15 Broad, New York

Sheffield Car Co., Three Rivers, Mich.
 Southern Car Co., High Point, N. C.
 Youngstown Car Mfg. Co., Youngstown, O.

*Cars (Stripping)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

Cars (Sugar Cane)

(See Cars, Plantation)

Cars (Tank)

American Car & Foundry Co., St. Louis, Mo.
 Bettendorf Axle Co. (All Steel), Davenport, Ia.
BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Bryan, E. A. Co., First National Bank bldg, Chicago, Ill. Works: Harvey, Ill.
CANTON BOILER & ENGINEERING Co., Canton, O. (See adv. index, end of book)

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
 Erie Car Works, Erie, Pa.

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
 Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

McGuire-Cummings Mfg. Co., 112 N Sangamon, Chicago, Ill.

Milwaukee Car Mfg. Co., Milwaukee, Wis.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Pressed Steel Car Co. (Steel), Pittsburgh, Pa.

RALSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

*Cars (Tie)

FAIRBANKS, MORSE & CO., Wabash ave. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

*Cars (Tipple)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
 COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Cars (Track Laying)

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
FAIRBANKS, MORSE & CO., Wabash ave. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.
 Kalamazoo Iron Works, Kalamazoo, Mich.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., 68 Broad, New York. (See adv. index & branch offices, end of book)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Ohio Ceramic Engineering Co., Boston, O.

Peacock's Iron Works, Selma, Ala.
 Ramapo Iron Works, Hillburn, N. Y.
 Sheffield Car Co., Three Rivers, Mich.

South Baltimore Steel Car & Foundry Co., Baltimore, Md.

*Cars (Traction Engine)

ELECTRIC WHEEL CO. (Heavy Truck Cars), Quincy, Ill. (See adv. index, end of book)

Cars (Tram)

Bodley Wagou Co. (For Sugar Plantations), Memphis, Tenn.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
 Gregg Co. (Ltd.), Newburgh, N. Y.

Helmick Foundry & Machine Co., Fairmont, W. Va.
 Heudy, Joshua Iron Works, San Francisco, Cal.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

North Alabama Engineering Co., New Decatur, Ala.
 Peacock's Iron Works, Selma, Ala.

Ramapo Iron Works, Hillburn, N. Y.
 South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Truax Mfg. Co., 1725 Wazee, Denver, Col.
 Union Iron Works (Inc.), Spokane, Wash.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
 COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Cars (Transfer)

ATLAS CAR & MFG. CO., THE, 1289 Marquette Rd., N. E., Cleveland, O. (See adv. index, end of book)

Bonnot Company (Double Transfer), Canton, O.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Chambers Bros. Co., 52d, below Lancaster av, Phila., Pa.

Chase Foundry & Mfg. Co., Columbus, O.
 Gregg Co. (Ltd.), Newburgh, N. Y.

Hathorn Foundry & Machine Co., Mason City, Ia.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Kent Machine Co., Kent, O.

Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, Ohio

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Morton Dry Kiln Co., Chicago, Ill.
 North Coast Dry Kiln Co., Seattle, Wash.

Ohio Ceramic Engineering Co., Cleveland, O.
 Peacock's Iron Works, Selma, Ala.
 Pioneer Iron Works, William & King, Brooklyn, N. Y.

RUSSEL WHEEL & FOUNDRY CO. (Steel), Detroit, Mich. (See adv. index, end of book)

Treadwell, M. H. Co., 90 West, New York
 Traux Mfg. Co., 1725 Wazee, Denver, Col.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
 COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
 Wolfram-Magor Eng'g Wks., 29 B'way, N. Y.

Cars (Trolley Repair)

Sheffield Car Co., Three Rivers, Mich.

Cars (Tunnel)

Bettendorf Axle Co. (All Steel), Davenport, Ia.
 Chase Foundry & Mfg. Co., Columbus, O.
 Gregg Co. (Ltd.), Newburgh, N. Y.
 Hendy, Joshua Iron Works, San Francisco, Cal.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Sheffield Car Co., Three Rivers, Mich.



175 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Cars (Velocipede)

(See also Cars, Inspection; also Cars, Motor Inspection)

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.
 Butterworth & Lowe (Narrow & Standard Gauge), Grand Rapids, Mich.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Wabash ave. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Kalamazoo R'y Sup. Co., Kalamazoo, Mich.
 Light Inspection Car Co., Hagerstown, Ind.
 Sheffield Car Co., Three Rivers, Mich.
 Starbuck's Sons Co., Mattoon, Ill.

Cars (Velocipede, Gasoline Motor)

(See Cars, Motor Inspection)

Cars (Warehouse & Factory)

(See Trucks, Store, Warehouse, Etc.)

Cars (Wrecking)

(See Cranes, Wrecking)

Cartridge Mfrs.

Austin Cartridge Co., Cleveland, O.
 Chamberlain Cartridge & Target Co., Cleveland, Ohio
 Peters Cartridge Co., Cincinnati, O.
 Savage Arms Co., Utica, N. Y.
 Union Metallic Cartridge Co. ("U. M. C."), 313 B'way, New York. Factory, Bridgeport, Conn.

U. S. Cartridge Co., 497 Pearl, New York. Factory: Lowell, Mass.
 Western Cartridge Co., East Alton, Ill.
 Winchester Repeating Arms Co., New Haven, Conn.

Carts (Barrel)

(See Carts, Hand & Barrel)

Carts (Coal)

Bodley Wagon Co., Memphis, Tenn.
 Evans, F. H., 596 Kent av, Brooklyn, N. Y.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Milburn Wagon Co., Toledo, O.

Carts (Concrete)

(See also Cars, Concrete)

Briggs Labor Saving Specialty Co., Waterloo, Iowa
 Jackson Mfg. Co. ("Burwinkle"), Harrisburg, Pa.

KOEHRING MACHINE CO., Milwaukee, Wis. (See adv. index, end of book)
 New York Concrete Machinery & Supply Co. ("Sterling" Roller Bearing), 78 Murray, New York

RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index & branch offices, end of book)
 Sackett, H. B., Screen & Chute Co., 210 State, Chicago, Ill.

SMITH, T. L., CO., THE, The Majestic Bldg., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Sterling Wheelbarrow Co. ("Sterling" Roller Bearing Wheels), Milwaukee, Wis.

Wallace-Lindesmith Hoist Co., Los Angeles, Cal.

Carts (Dumping)

(See also Wagons, Dumping)

Archer Iron Works Co., 164 Dearborn, Chicago, Ill.
 Ames Plow Co., Quincy Hall, Boston, Mass.

Austin, Tomlinson & Webster Mfg. Co., Jackson, Mich.
 Bodley Wagon Co., Memphis, Tenn.
 Briggs Labor Saving Specialty Co. ("Lightning"), Waterloo, Ia.

Bugbee Chas. L., Hartford, Vt.
 Colfax Mfg. Co., South Bend, Ind.

ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Wabash ave. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Fish Bros. Wagon Co., Racine, Wis.
 Fort Smith Wagon Co., Fort Smith, Ark.

Great Western Mfg. Co., Leavenworth, Kan.
 Hill, Thos. (Steel), 312 Henderson, Jersey City, N. J.

Horton Mfg. Co. (Brick Yard), Painesville, O.
 Kentucky Wagon Mfg. Co., 3d c K, Louisville, Ky.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.

Luedinghaus-Espenschied Wagon Co., St. Louis, Mo.
 Milburn Wagon Co., Toledo, O.
 Mitchell & Lewis Co., Racine, Wis.

Ohio Ceramic Engineering Co., Cleveland, O.
 Owensboro Wagon Co., Owensboro, Ky.

Sanford, A. Logging Tool Co., Oshkosh, Wis.
 Schuttler, Peter Co., 1200 W 22d, Chicago, Ill.

Senderling Mfg. Co., 540 Grand, Jersey City, N. J.

Sherman, I. N. W., 144 S Green, Chicago, Ill.
 Smith & Sons Mfg. Co., Kansas City, Mo.

Studebaker Bros. Mfg. Co., South Bend, Ind.
 Sweet, B. F. & H. L. Co., Fond-du-Lac, Wis.

Tiffin Wagon Co., Tiffin, O.
 Watson Wagon Co., Canastota, N. Y.

Wellington Machine Co. (Brick, etc.), Wellington, O.

Western Wheeled Scraper Co., Aurora, Ill.
 White Hickory Wagon Mfg. Co., East Point, Ga.

Winona Wagon Co., Winona, Minn.
 Wright, Thos. Co., Jersey City, N. J.

Zering, H. Mfg. Co., Cincinnati, O.

Carts (Garbage)

(See Wagons, Garbage, Etc.)

Carts (Hand & Barrel)

Arnold, D. J. C., New London, O.
 Aubert, Frank J., Oneida, N. Y.

Belle City Mfg. Co., Racine, Wis.
 Gendron Wheel Co., Toledo, O.

Hayes Pump & Planter Co., Galva, Ill.
 Keystone Farm Machine Co. (With Combined Truck), York, Pa.

Kilbourne & Jacobs Mfg. Co. ("St. Louis" "Jubilee," "Buckeye," Hand), Columbus, O.

La Crosse Plow Co. (Barrell), La Crosse, Wis.

Lansing Wheelbarrow Co., Lansing, Mich.
 Lean, Roderick Mfg. Co. ("Butler" Steel Hand Cart), Mansfield, O.

Monarch Road Roller Co. ("Monarch"), Groton, N. Y.
 Myers, F. E., & Bro., Ashland, O.

Ohio Ceramic Engineering Co., Cleveland, O.
 Puffer-Hubbard Mfg. Co. (Steel Wheel), Minneapolis, Minn.

Sandwich Mfg. Co., Sandwich, Ill.
 Studebaker Bros. Mfg. Co., South Bend, Ind.

Syracuse Chilled Plow Co., Syracuse, N. Y.
 Whitehurst, R. W. Co., Norfolk, Va.

Zering, H. Mfg. Co., Cincinnati, O.

Carts (Hose)

(See Hose Carriages & Carts)

Carts (Linemen's)

(See also Wagons, Linemen's; also Cars, Trolley Repair)

Dicke Tool Co., Downers Grove, Ill.
 Whalen, J. B. Co., Sycamore, Ill.

Carts (Logging)

Bodley Wagon Co., Memphis, Tenn.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)

Lansing Wheelbarrow Co., Lansing, Mich.
 Sanford, A. Logging Tool Co., Oshkosh, Wis.

Schwartz, Jos. Co. (Ltd.), New Orleans, La.
 Southern Hardware & Supply Co., Mobile, Ala.

White, F. W., Pearl River, La.

Carts (Nail)

Archer Iron Works Co., 164 Dearborn, Chicago, Ill.
 Sterling Wheelbarrow Co. ("Sterling" Sanitary), Milwaukee, Wis.

Carts (Pickup or Beam)

DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Carts (Push)

(See Carts, Hand & Barrel)

Carts (Railroad)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Bain Wagon Co., Kenosha, Wis.

Bodley Wagon Co., Memphis, Tenn.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.

Luedinghaus-Espenschied Wagon Co., 1713 N B'way, St. Louis, Mo.

Milburn Wagon Co., Toledo, O.
 Studebaker Bros. Mfg. Co., South Bend, Ind.

Carts (Road Spreading)

American Road Machine Co. (For Spreading Road Materials for Macadam Roads), Kennett Square, Pa.

Eagle Wagon Works, Auburn, N. Y.
 Good Roads Machinery Co., Kennett Square, Pa.

Port Huron Engine & Thresher Co. (Also Wagons), Port Huron, Mich.

Carts (Sprinkling)

(See also Street Sprinkling Carts & Wagons)

Port Huron Engine & Thresher Co., Port Huron, Mich.
 Milwaukee Wagon Co., Toledo, O.

Studebaker Bros. Mfg. Co., South Bend, Ind.

Carts (Transfer)

Bodley Wagon Co. (Up to 14 feet Height of Wheels), Memphis, Tenn.

Carvers (Stone)

Ellin, Klison & Co., 25th & N. R., New York
 Entress, Albert, 599 Main, Hartford, Conn.

Evans, John & Co., Boston, Mass.
 Lauter, Chas., 451 W 28th, New York

Miranda, Fernando, 16 W 101st, New York
 Nygard, Alfred F., 68 Cass, Detroit, Mich.

Phelps, Richard B., 9th nr R. I., N. E., Washington, D. C.

Richard, L. (Arch'd), 110 West End av, New York

Rochette & Parzini, 719 1st av, New York
 Schellentrager, Louis F., Seneca & Long, Cleveland, O.

SEIFERT, FRANK A., PLASTIC Relief Co., 2621-2627 Dayton, St. Louis, Mo. (See adv. index, end of book)

Smith, Jos. & Co., 428 E 23d, New York
 Van Malderen, F. T., Ann & Jumonville, Pittsburg, Pa.

Carvers, Wood (Classic)

American Carving & Mfg. Co., 900 Granville av, Grand Rapids, Mich.

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)

Brown, O. L., 136 Dorrance, Providence, R. I.
 Buchner, A. & Co., 220 N 2d, St. Louis, Mo.

Buffalo Grille Co., 270 Court, Buffalo, N. Y.
DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)

Dowler, Chas., 581 Smith, Providence, R. I.
 Dux, Jos., 132 W Jackson bldg, Chicago, Ill.

Ellin, Klison & Co., 13th av, c W 25th, New York

Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.

Evans, John & Co., Boston, Mass.

Gossert, Henry, 320 Harmony, Phila., Pa.

Grand Rapids Carved Moulding Co., Grand Rapids, Mich.

Grand Rapids Wood Carving Co., Grand Rapids, Mich.

Haigermoser, Jos., 250 Randolph, Detroit, Mich.

Hartmann, Malcom Co., 13 N Jefferson, Chicago, Ill.

Holmes, Jos., 655 E 6th, Boston, Mass.

Lamb, J. & R. (Inc.), 25 6th av, New York
 Nelson, C. T. Co., 323 Dublin av, Columbus, O.
 Nygard, Alfred F., 68 Cass, Detroit, Mich.
 Peirce, W. E. & Co., Milford, N. H.
 Pride, Willis A., 43 Bristol, Boston, Mass.
 Richard, Louis, 110 West End av, New York
 Riechy, Frank, 65 14th, Newark, N. J.
 Rochette & Parzini, 719 1st av, New York
 Root, C. R., 104 Asylum, Hartford, Conn.
 Schellentrager, Louis F. Seneca & Long, Cleve-
 Schneider F. H., Syracuse, N. Y.
STEARNS, A. T. LUMBER CO., Ne-
 ponset, Boston, Mass. (See adv. index, end
 Thomas & Co., Worcester, Mass. of book)
 Van Malderen, F., Ann & Jumonville, Pitts-
 burg, Pa.
 Waddell Mfg. Co., Grand Rapids, Mich.

Case Hardening

(See also Compounds, Case Hardening & Tempering)

Boston Gear Works, Norfolk Downs, Mass.
COES, LORING & CO. (Inc.), Wor-
 cester, Mass. (See adv. index, end of book)
 Crosby Co., 171-180 Pratt, Buffalo, N. Y.
 Durbrow & Hearne Mfg. Co., 12 Wooster, New
 York
 Dyson, Jos. & Son (Also Annealing & Carboniz-
 ing), Cleveland, O.
WORCESTER PRESSED STEEL CO.,
 Worcester, Mass. (See adv. index, end of
 book)

Casein

Casein Co. (of America), 11 Pine, New York
 Hamilton Co., 16 S William, New York
 Union Casein Co., Philadelphia, Pa.

Cases (Egg)

Holley-Matthews Mfg. Co., Silkeston, Mo.

Cases (Gear)

BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Columbus Machine Works & Malleable Iron
 Co. (Made of Pressed Steel), 269 Chestnut,
 Brooklyn, N. Y.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Lyon Metallic Mfg. Co. ("Lyon" Sheet Steel),
 Aurora, Ill.
 Phila. Electrical & Mfg. Co. ("Pemco" Malle-
 able Iron), 1232 N 31st, Phila., Pa.

*Cases (Railroad Ticket)

AMERICAN RAILWAY SUPPLY CO.,
 26 Park pl., New York. (See adv. index,
 end of book)

Cases (Steel Bottle)

American Steel Package Co., Defiance, O.

Cases (Suit)

(See Traveling Bags & Suit Cases)

*Cases (Twist Drill)

WHITMAN & BARNES MFG. CO., Chicago,
 Ill. (See adv. index & branch offices,
 end of book)

Cases (Wall)

(See Boxes, Switch.)

Cash Carriers

Acme Cash Railway Co. ("Acme," Basket or
 Parcel Carriers), New Haven, Conn.
 Auld, F. L., Cambridge, Mass.
 Baldwin, Jas. L. & Co. ("The Flyer"), 277
 Madison, Chicago, Ill.
 Barr Cash & Package Carrier Co., Mansfield, O.
 Bilt-Rite Co., 322 3d av S, Minneapolis, Minn.
 Burgess, E. A. (Est. of) (also Bundle Carriers),
 New Haven, Conn.
 Independent Cash Carrier Co. (Cable Sys-
 tem), Springfield, Mass.
 Lamson Consolidated Store Service Co., 161
 Devonshire, Boston, Mass.
 Taisey Pneumatic Service Co., Indianapolis, Ind.
 Universal Pneumatic Transmission Co., 135
 Adams, Chicago, Ill.

Cash or Money Drawers

Chicago Scale Co., 394 W Jackson boul, Chi-
 cago, Ill.
 Fernald Mfg. Co., North East, Pa.
 Nashua Till Co. (Alarm Tills), Nashua, N. H.
 Presbrey & Son (Alarm Money Till), Provid-
 ence, R. I.
 Quincy Show Case Works (Alarm or Gong),
 Quincy, Ill.
SUN MFG. CO. (Domestic, English
 & German), Columbus, O. (See adv. index,
 end of book)
 Thomas-Peter Co. (Sheet Metal), Canton, O.
 Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
 Wood, E. O., Nashua, N. H.

Casing (Oil Well)

(See Pipe & Tube Mills.)

*Casings (Metal)

AMERICAN METAL DOOR CO.,
 Jamestown, N. Y. (See adv. index, end of
 book)
DAHLSTROM METALLIC DOOR CO.,
 Jamestown, N. Y., & 299 B'way, New York.
 (See adv. index & branch offices, end of book)

Casings (Steam Pipe)

(See also Pipe, Wooden)

American District Steam Co., Lockport, N. Y.
 Michigan Pipe Co., Bay City, Mich.
 Puget Sound Pipe Co., Olympia, Wash.
 Washington Pipe & Foundry Co., Tacoma,
 Wash.
WYCKOFF, A. & SON CO. (Wyckoff
 Patent Waterproof Wood), Elmira, N. Y.
 (See adv. index, end of book)

Casings (Steel Elevator)

Caldwell, H. W. & Son Co., 17th & Western av,
 Chicago, Ill.

Cast Iron Brazing

A. & J. Mfg. Co. ("Brazison"), 24 W Ran-
 dolph, Chicago, Ill.
 American Terrotie Bronzing Co., Perry bldg.,
 Phila., Pa.
 Castolin Co. of America, Wright bldg., St.
 Louis, Mo.
 Ferrofix Brazing Co., Arcade bldg., Phila., Pa.
 Hauck Mfg. Co., 140 Cedar, New York.
MACLEOD, WALTER & CO., 213 E. Pearl,
 Cincinnati, O. (See adv. index, end of
 book)
 M. & W. Brazing Co., 418 S. Charles, Balti-
 more, Md.
 New York Brazing Co. ("Ferrofix"), 196 11th
 av, New York
 Reinforced Brazing & Mach. Co., Pittsburg, Pa.
 Standard Brazing Co., 88 Broad, Boston, Mass.

Cast Iron Filler

(See Cements, Iron Filler; also Cements, Iron
 & Steel)

Cast Iron Fittings (Green House)

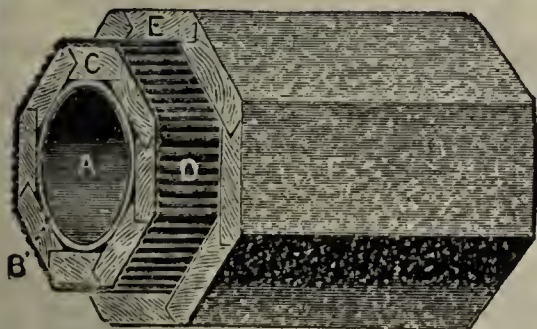
(See Fittings, Green House)

Cast Iron Pipe (High Pressure)

Coldwell-Wilcox Co. (for Steam or Water),
 Newburgh, N. Y.
 Wood, R. D. & Co. (for Fire Protection), 400
 Chestnut, Phila., Pa.

Cast Iron Pipe Mfrs. (Gas & Water)

American Car & Foundry Co. (3 to 42
 inches), 915 Olive, St. Louis, Mo., &
 165 B'way, New York
 American Cast Iron Pipe Co. (Hub & Spigot
 Pipe & Fittings), Birmingham, Ala.
 Builders' Iron Foundry (Also Fittings of All
 Kinds for Same), Providence, R. I.
CENTRAL FOUNDRY CO. ("Univer-
 sal," also Ammonia & Steam), 37 Wall,
 New York. (See adv. index, end of book)
 Clow, James B. & Sons (2 to 48-inch), Chicago
 Colorado Fuel & Iron Co. (3 to 20 inch), Den-
 ver, Col.
 Dimmick Pipe Co., Birmingham, Ala.
 Donaldson Iron Co. (1½ to 20-inch), Emaus, Pa.
 Drummond Iron Works (Ltd.), Reading, Pa.
 Drummond, M. J. & Co., 182 B'way, New York
 Fox, Jno. & Co. (Mfrs. Agts.), 523 B'way, N. Y.
 General Fire Extinguisher Co., Providence, R. I.
 Glamorgan Pipe & Foundry Co. (1½ to 36-
 inch), Lynchburg, Va.
 Lynchburg Foundry Co., Lynchburg, Va.
McMANN & TAYLOR (Jobbers), 104
 John, New York. (See adv. index, end of
 book)
 McWane Pipe Works (Lynchburg Foundry Co.,
 Props.), 220 B'way, New York
 Massillon Iron & Steel Co. (Also Flange Pipe
 & Fittings), Massillon, O.
 Nelsonville Fdry & Mach. Co., Nelsonville, O.
 Oregon Iron & Steel Co. (4 to 32-inch), Port-
 land, Ore. Works: Oswego, Ore.
 Sheffield Cast Iron Pipe & Foundry Co., Shef-
 field, Ala.
 Standard Cast Iron Pipe & Foundry Co.,
 114 N Broad, Phila. Works: Bristol, Pa.
 U. S. Cast Iron Pipe & Foundry Co. (Gas &
 Water, Sewer & Culvert, 3 to 72-inch),
 71 B'way, New York



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CAST IRON PIPE

FOR GAS, WATER, SEWERS, DRAINS, HEATING, REFRIGERATION

GENERAL OFFICE, 37 WALL STREET, NEW YORK

SALES OFFICES: { Eastern—37 Wall Street, New York, N. Y.
Pacific Coast—Metropolis Bank Building, San Francisco, Cal.
Southwestern—Dallas, Texas.Middle Western—87 North May Street, Chicago, Ill.
Southern—Woodward Building, Birmingham, Ala.
London—Audrey House, Ely Place, Holborn, E. C.

Utica Pipe Foundry Co. (3 to 30 inch), Charles Millar & Son Co. (Selling Agts.), Utica, N.Y.
Virginia Pipe & Foundry Co., Richmond, Va.
Warren Foundry & Machine Co. (34 to 48-in.), Phillipsburg, N. J., & 170 B'way, New York
Washington Pipe & Fdry Co., Tacoma, Wash.
Wood, R. D. & Co. (1 to 72-in.), 400 Chestnut, Philadelphia Pa.

Cast Iron Soil Pipe & Fittings Mfrs.

(For Jobbers of these Goods, see Plumbers' Supplies, Jobbers)

Abendroth Bros. (Corp.) (2 to 8-inch), 109 Beekman, New York
American Foundry & Pipe Co. (3 to 12-inch), Park bldg, Pittsburg, Pa. Works: Penn Station, Pa.
Birmingham Pipe & Casting Co. (2 to 12 inch), Birmingham, Ala.

Campbell Mfg. Co., Gadsden, Ala.
Casey-Hedges Co., Chattanooga, Tenn.
Cedar Rapids Pump Co., Cedar Rapids, Iowa
Birmingham Pipe & Casting Co. (2 to 12 inch), Birmingham, Ala.

Campbell Mfg. Co., Gadsden, Ala.
Casey-Hedges Co., Chattanooga, Tenn.
Cedar Rapids Pump Co., Cedar Rapids, Iowa
CENTRAL FOUNDRY CO. (All Sizes),
37 Wall, New York. (See adv. Index, end of book)

Charlotte Pipe & Foundry Co., Charlotte, N. C.
Colwell Lead Co., 109 Lafayette, New York
Coosa Pipe & Foundry Co., Birmingham, Ala.
Works, Gadsden, Ala.
Crown Pipe & Foundry Co. (Uu to 8 inches), Jackson, O.

Enterprise Foundry Co., Rochester, N. Y.
Essex Foundry, Newark, N. J.
Estabrook's, R. Sons ("Sisson" Inseparable Joint), 204 W 1st. S. B., Boston, Mass.
Franklin Pipe & Foundry Co., 1155 S Paulina, Chicago, Ill.

Gadsden Pipe & Fittings Co., Birmingham, Ala.
Works, Gadsden, Ala.
General Fire Extinguisher Co., Providence, R. I.
Glenn Mfg. Co. (Extra Heavy Pipe only and Complete Line of Fittings, Standard & Heavy), St. Charles, Ill.

Haines, Jones & Cadbury Co., 1136 Ridge av., Hallman Oliver, Mont Clair, Pa. Phila, Pa.
Hercules Iron & Supply Co., Commercial & Hanover, Boston, Mass., & Anniston, Ala.
High Point Pipe & Fdry Co., High Point, N. C.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.

Independent Foundry Co., Lancaster, Pa.
Iowa Mfg. Co., Oskaloosa, Ia.
McVay & Walker, Braddock, Pa.

Medina Foundry Co., Medina, N. Y.
Mitchell & Van Meter Co., Phila. Bourse, Phila., Pa.

Mott, J. L. Iron Works, 118 5th av, New York
National Foundry Co. (2 to 10-inch), 32 Sanford, Brooklyn, N. Y.

Nelson, N. O. Mfg. Co., St. Louis, Mo.
North Western Foundry & Supply Co., Orleans nr Grand boul, Detroit, Mich.
Reading Scale & Machine Co. (Extra Heavy), Reading, Pa.

Ronalds & Johnson Co. (2 to 15 inches), 54 Cliff, New York
Seaboard Pipe Foundry Co., Savannah, Ga.

Southern Pipe & Foundry Co., Birmingham, Ala.
Stockham Pipe & Fittings Co., Birmingham, Ala.
Union Foundry Co. ("U. F. Co."), Anniston, Ala.

Utica Pipe Foundry Co. 2 to 6-inch, Charles Millar & Son Co., Selling Ag'ts, Utica, N. Y.
Vincennes Pipe & Casting Co., Vincennes, Ind.

Wetter, H. Mfg. Co., Memphis, Tenn. Works: South Pittsburg, Tenn.

Wolff, L. Mfg. Co. (2 to 12-inch), 117 W Lake, Chicago, Ill.

*Casteen

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Casters

Clark Caster Co., Plainville, Conn.
Coleman Hardware Co. (Furniture, Stoves, etc.), 168 Michigan av, Chicago, Ill.

COLUMBIA BALL CASTER CO. ("Columbia" Revolving Steel Ball, Stem Plate, etc.), 163 E Randolph, Chicago, Ill. (See adv. index, end of book)

Duer, Jno. & Sons (Furniture), Baltimore, Md.
Faultless Caster Co. (Leather Wheel, Glass Insulating, etc.), Nebraska City, Neb.

Fiset, Michael (Soft Rubber Furniture, etc.), Albany, N. Y.
Fishburn, J. J. & Son ("Columbia"), 40 Dearborn, Chicago, Ill.

Foster, Merriam & Co. ("Victor," Furniture, Truck, etc.), Meriden, Conn.
Grand Rapids Stove Co. (Furniture, etc.), Grand Rapids, Mich.

Loeffelholz Co. ("Nonesuch" Furniture & Trunk Rollers), Milwaukee, Wis.
National Caster Co. (Piano, Refrigerator, etc.), Hamilton, O.

National Supply Co. (Furniture, Bed, etc.), 7 W Lombard, Baltimore, Md.
Nickel Mfg. Co. ("Stamped Steel, Grip Neck"), Morris, Ill.

Payson Mfg. Co. (Anti-Friction), 1319 W Jackson boul, Chicago, Ill.
Phoenix Caster Co. (Furniture, etc.), Indianapolis, Ind.

Rochester Caster & Tool Co., Rochester, N. Y.
Schatz Mfg. Co. ("Acme" Ball Bearing), Chappaqua, N. Y.

Schrivver, O. P. & Co. (Common Sense Anti Friction Furniture & "Hercules" Truck Cast & Malleable Iron), Cincinnati, O.

Schenck, M. B. Co. ("Yale & Gem" Roller Bearing Furniture & Truck), Meriden, Conn.
Stengel Mfg. Co. (Furniture, etc.), Hamilton, O.

Tucker & Dorsey Mfg. Co. ("Martin," "Tucker," "Boss" & "Stengel," Furniture, Casters), Indianapolis, Ind.

Universal Caster & Foundry Co. (Ball-Bearing Piano, Bedstead, Furniture, etc.), 1170 B'way, New York. Factory: Newark, N. J.

Wrightsville Hardware Co. (Furniture, etc.), Wrightsville, Pa.

Casters (Truck)

Arnold Co., Norwalk, Conn.
Dearborn Hardware Mfg. Co., Chicago, Ill.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.
National Caster Co. (Casters & Wheels, Rubber Tired), Hamilton, O.

Reading Hardware Co., Reading, Pa.
Stearns, E. C. & Co., Syracuse, N. Y.

Tucker & Dorsey Mfg. Co. (Also Furniture, etc.), Indianapolis, Ind.
Universal Caster & Foundry Co., 1170 B'way, New York. Factory: Newark, N. J.

Zering, M., Mfg. Co. (Ball Bearing), Cincinnati, O.

Castings (Air Furnace)

American Foundry & Construction Co., 4716 2d av, Pittsburg, Pa.

American Roll & Foundry Co., Canton, O.
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.

Buffalo Foundry & Machine Co. (Up to 20 Tons), Buffalo, N. Y.

Builders' Iron Foundry (Gun Iron Air Furnace), Providence, R. I.

CANTON FOUNDRY & MACHINE CO.

Canton, O. (See adv. index, end of book)
Chambersburg Engineering Co. (Up to 100 tons), Chambersburg, Pa.

Dimmick Pipe Co., Birmingham, Ala.
Fischer Foundry & Machine Co. (Light & Heavy), Ford City, Pa.

Lakeside Malleable Castings Co. (Malleable Iron), Racine, Wis.
Lehigh Foundry Co. (Up to 50 Tons), Fullerton, Pa.

Mesta Machine Co., Pittsburg, Pa.
Ohio Machine Co., Middleport, O.

Phila. Roll & Machine Co. (Heavy), S 23d & Washington av, Phila., Pa.
Reading Iron Co., Reading, Pa.

Solid Steel Casting Co., Chester, Pa.
Sterlingworth Railway Supply Co., North American bldg., Phila., Pa. Works, Easton, Pa.

WHEELER, CHARLES CHILD, 113
B'way, New York. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Wisconsin Malleable Iron Co., Milwaukee, Wis.

Castings (Aluminum)

Acorn Brass Mfg. Co., 203 Fulton, Chicago, Ill.

Allyne Brass Foundry Co., Buffalo, N. Y.
Aluminum Co. of America, Pittsburg, Pa.

Aluminum Foundry Co., Manitowoc, Wis.
American Brass & Aluminum Co., Indianapolis, Ind.

Anderson, A. H., 52 N Ann, Chicago, Ill.
Angus, O. H., Co., Albany, N. Y.

Attwood Brass Works (Heavy), Grand Rapids, Mich.

Bastian, C. L. Mfg. Co., Chicago, Ill.
Bay State Brass Foundry, 155 A, S Boston, Mass.

Beaver Valley Metal Co., New Brighton, Pa.
Best Light Co., Canton, O.

Bird Brass Works, Fort Worth, Tex.
Brass Foundry & Heating Co., Peoria, Ill.

Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.

Brighton Brass & Bronze Co., Pittsburg, Pa.
Buckeye Brass Foundry, Cleveland, O.

Buckeye Brass Foundry, Vine & Armstrong, Columbus, O.

Buckeye Iron & Brass Works, Dayton, O.
Buescher Band Instrument Co., Elkhart, Ind.

Builders' Iron Foundry (Light & Heavy), Providence, R. I.

Cadman, A. W. Mfg. Co., 2814 Smallman av, Pittsburg, Pa.

Capitol Brass Works, Detroit, Mich.
Capital Brass Works, Detroit, Mich.

Chambers & Ainslee, Newark, N. J.
Champion Brass Works, Coldwater, Mich.

Champion Safety Lock Co., Geneva, O.
Chapman, J. B. & Co., Springfield, Mass.

Chicago Hardware Foundry Co., North Chicago, Ill.

CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of book)

City Brass Foundry Co., Cleveland, O.
Clum & Atkinson, Rochester, N. Y.

Crown Smelting Co., Chester, Pa.
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Detroit Motor Castings Co., Detroit, Mich.
Detroit Shipbuilding Co. (Brass Dept.), ft. of Orleans, Detroit, Mich.

Eastwood Wire Mfg. Co. (1/4 oz. to 20,000 lbs.), Belleville, N. J.

Eclipse Foundry Co., Crawford, Detroit, Mich.

Elyria Machine Parts Co., Elyria, O.

Enterprise Foundry Co., Detroit, Mich.

Enterprise Foundry Co., 48 Olean, Rochester, N. Y.

COLUMBIA BALL CASTERS

They Roll

Always Forward
Without Jar or Vibration
Not Too Easy—Just
Easy Enough



No. 551



No. 555

Patent applied for



No. 561

They Save

Carpets and Rugs
Delicate Furniture
Walls and Coverings
Your Temper

Columbia Ball Caster Company

163 East Randolph St., Chicago, U. S. A.

Hendricks' Commercial Register

IS USED FOR

Purchasing Purposes

BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED

INDUSTRIAL INFORMATION

Q We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine, tool or specialty which they may require. :: :: :: :: ::

==== **Hendricks'** =====
Commercial Register

Eureka Tempered Copper Works, North East
Everhard Brass Works, Scranton, Pa.
Eynons-Evans Mfg. Co., 15th & Clearfield, Phila., Pa.

Fairfield Aluminum Foundry, Southport, Conn.
Frail, E. T., Lock Co., Lancaster, Pa.
Franklin, H. H. Mfg. Co., Syracuse, N. Y.
Fries & Co., 91 Main, Buffalo, N. Y.
Graham, Jas. & Co., New Haven, Conn.

GRISCOM-SPENCER CO., 90 West,
New York, & ft Washington av, Phila-
delphia, Pa. (See adv. index & branch of-
fices, end of book)

Hackett Bros., Detroit, Mich.
Halstead & Co., 1129 Cherry, Philadelphia, Pa.
Haupten Brass Co., Springfield, Mass.

Hardin, Nicholas, 132 E Larned, Detroit, Mich.
Hardware & Woodenware Mfg. Co. (Small),
826 B'way, New York

Hauck Mfg. Co., 322 W Pearl, Cincinnati, O.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

HELWIG MFG. CO., St. Paul, Minn.
(See adv. index, end of book)

Hendryx, Andrew B. Co., New Haven, Conn.
Henry-Bonnard Bronze Co., Sales Office, 5 &
7 E 42d, N. Y. Works, Mount Vernon, N. Y.

Hercules Float Wks., Springfield, Mass.
Hewitt, John Foundry Co., East Newark, N. J.

Higgins & Co., Holyoke, Mass.
Hoban Brass Fdry Co., 44 Wyandot, Dayton, O.
Holbrook-Armstrong Iron Co. (Light & Heavy),
Racine, Wis.

Holton & Weatherwax Co. (L. & I.), Jackson,
Mich.

Hughes Bros., Scranton, Pa.
Ideal Bronze Co., Cleveland, O.

Imperial Brass Mfg. Co., 245 S Jefferson, Chi-
cago, Ill.

Indianapolis Aluminum & Brass Co., Indian-
apolis, Ind.

Jamestown Metal Furniture Co., James-
town, N. Y.

Jenkins Mfg. Co., Bloomfield, N. J.
Johnson Service Co., Milwaukee, Wis.

Jones, Jas. Co., Los Angeles, Cal.
Kells Foundry & Machine Co., Adrian, Mich.

Keystone Bronze Co., 38th & A. V. Ry.,
Pittsburg, Pa.

Killing, E., Moulding Machine Works,
Davenport, Ia.

Kingsland-Kay-Cook Mfg. Co., St. Louis, Mo.
Langenkamp-Wheeler Brass W'ks., 1208 Shelby,
Indianapolis, Ind.

Leslie Co. (Inc.), (Bronze), Lyndhurst, N. J.
Levett, Walker M., 462 10th av, New York

Liberty Brass Works, Baltimore, Md.
LUMEN BEARING CO., Buffalo, N. Y.
(See adv. index, end of book)

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnatl. O. (See adv. index & branch of-
fices, end of book)

McCafferty, J. H. & Co., Boston, Mass.
McCartney, Josiah, Bay City, Mich.

McHatton Smelting Co., 1500 Washington av,
Philadelphia, Pa.

Mansfield Tempered Copper Co., Mansfield, O.
Mayo Damper Co., Pottstown, Pa. (Also Brass
& Bronze)

Merkel-Light Motor Co., Pottstown, Pa.
Messmer, Ferd. Mfg. Co., St. Louis, Mo.

Midland Brass Works, Fort Worth, Tex.
Milwaukee Aluminum & Brass Co., Milwaukee,
Wis.

Minneapolis Brass & Iron Mfg. Co., 116 1st av,
N. Minneapolis, Minn.

Mousley, Chas. & Sons, 457 N 12th, Philadelphia,
Pa.

Newell, Fred E., Central Falls, R. I.
Oberdorfer, M. L. Brass Co., Syracuse, N. Y.

Ohio Brass Co., Mansfield, O.
Osburn Foundry Co., 74 Fort, E. Detroit, Mich.

Philadelphia Hardware & Malleable Iron
Works (Inc.), 9th & Jefferson, Phila., Pa.

Pioneer Brass Works, Indianapolis, Ind.
Pittsburg Brass Mfg. Co., Pittsburg, Pa.

Providence Brass & Aluminum Co. (1 Grain to
1000 Pounds; also Aluminum Bronze), Provi-
dence, R. I.

Reeves, Paul S. & Son, 1413 Catharine, Phila.,
Pa.

Rempis & Gallmeyer Foundry Co., Grand Rapids,
Mich.

Richardson, Edro, 316 N Holliday, Baltimore,
Md.

Roberts & Norton, Utica, N. Y.
Rowell, W. G. & Co., Bridgeport, Conn.

Ruggles Machine Co., Poultney Vt.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

ST. PAUL FOUNDRY CO., Como av. &
Mackubin, St. Paul, Minn. (See adv.
index, end of book)

Scovill Mfg. Co., Waterbury, Conn.
Sheeler-Hemsker Co., 811 Fairmount av, Phila.,
Pa.

Sherwood Brass Works, Detroit, Mich.
Sherwood Mfg. Co., Buffalo, N. Y.

Shriver, T. & Co., Harrison, N. J.
SMITH, F. P., WIFE & IRON WORKS, 100
Lake, Chicago, Ill. (See adv. index, end
of book)

Springfield Brass Co., Springfield, O.
Stover Mfg. Co., Freeport, Ill.
Syracuse Aluminum & Bronze Co., Syracuse,
N. Y.

Turner Brass Works, Sycamore, Ill.
Union Brass Foundry Co., Lowell, Mass.

U. S. Aluminum Casting Co., Cincinnati O.
U. S. Aluminum Co., Pittsburg, Pa.

U. S. Bronze Co., 1831 Columbus rd, N W,
Cleveland, O

Waltham Foundry Co., Waltham, Mass.
Waterbury Brass Goods Corp., Waterbury,
Conn.

Wells Chemical Bronze Works, Worcester, Mass.
WHEELER, CHARLES CHILD (All
Sizes), 113 B'way, New York. (See adv.
index, end of book)

Williams, E. A. & Son, 105 Plymouth, Jersey
City, N. J.

Zero Valve & Brass Mfg. Co., 417 Chicago,
Buffalo, N. Y.

Castings (Automobile)

(See also Castings, Various Kinds)

Acme Steel & Malleable Iron Works (Steel
& Malleable Iron), Buffalo, N. Y.

AMERICAN BRAKE SHOE & FOUN-
dry Co., Mahwah, N. J., & Western Union
bldg, Chicago, Ill. (See adv. index &
branch offices, end of book)

Auburn Foundry Co., Auburn, Ind.
Bridgeport Deoxidized Bronze & Metal Co.,
Bridgeport, Conn.

Canton Brass Co. (Brass, etc.), Canton, O.
Chicago Steel Foundry Co. (Vanadium Steel),
Rookery bldg, Chicago, Ill.

CHISHOLM & MOORE MFG. CO.,
(Malleable Iron), 49th & Lake, Cleveland,
O. (See adv. index, end of book)

Clum & Atkinson, Rochester, N. Y.
Cramp, Wm. & Sons Ship & Engine Building
Co., Phila., Pa.

Crucible Steel Casting Co. (Chrome, Nickel,
Vanadium Steel), Lansdowne, Pa.

Ensign Foundry Co., Toledo, O.
Edna Smelting & Refining Co., (Brass), 525
Reading rd, Cincinnati, O., & Monadnock
hik, Chicago, Ill.

Globe Malleable Iron Co. (Malleable Iron),
Syracuse, N. Y.

Hardy, Wm. A. & Sons Co. (Brass & Bronze),
Fitchburg, Mass.

Hopson & Chapin Mfg. Co. (Cast Iron), New
London, Conn.

LUMEN BEARING CO., Buffalo, N. Y.
(See adv. index, end of book)

MacKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)

Manufacturers' Foundry Co. (Grey Iron Cylin-
ders; also for Motor Boats), Waterbury,
Conn.

MERCHANT & EVANS CO. (Inc.)
(Iron Cylinder Castings), 517 Arch, Phila.,
Pa. (See adv. index & branch offices, end
of book)

Michigan Crucible Steel Casting Co. (All
Kinds of Light Crucible Steel), Detroit,
Mich.

Michigan Motor Casting Co., Flint, Mich.
Norwalk Brass Co. (of all Composition Metals),
Norwalk, Conn.

Ohio Malleable Iron Co. (Malleable Iron),
Columbus, Ohio.

Reed Mfg. Co. (Crucible Steel), Kalamazoo,
Mich.

Reedy Foundry Co., 91 Illinois, Chicago, Ill.
Rogers, C. E. (Aluminum), 34 Beach, Boston,
Mass.

Susquehanna Casting Co., Wrightsville, Pa.
Syracuse Aluminum & Bronze Co., Syracuse,
N. Y.

Trumbull Mfg. Co., Warren, O.
U. S. Aluminum Castings Co. (Aluminum),
Cincinnati, O.

U. S. Aluminum Co., Pittsburg, Pa.
Walker Foundry Co. (Grey Iron), Erie, Pa.

Wetherill Finished Casting Co., Phila., Pa.
WHEELER, CHARLES CHILD 113
B'way, New York. (See adv. index, end
of book)

Whiteley Malleable Castings Co. ("White-
ley's Crown" Steel), Muncie, Ind.

Whitely Steel Co. (Cast Steel), Muncie, Ind.

Castings (Bake Oven)

Fischer, Henry C., 234 Greene, Brooklyn, N. Y.
Spangler, Chas., Allentown, Pa.

Castings (Boiler)

(See Boiler Fronts & Castings)

Castings (Brass)

(For all Brass Founders not found under this
heading see Machinists & Founders marked
with a (\$) Section Mark)

See also Castings, Bronze;
Castings, Copper;
Castings, Manganese Bronze;
Castings, Phosphor Bronze;
Bearings of Various Kinds;
Bell Founders;
Plumbers' Brass Goods;
Valve Mfrs.

ALABAMA.

BIRMINGHAM—Ajax Metal Co. of the
Anderson, G. L. South
Gill, V. & Co.

CULLMAN—Ehrensperger, H.
MOBILE—Alabama Iron Works (also Iron)
MONTGOMERY—Janney & Co. (also Iron)
NORTH BIRMINGHAM—Birmingham Novelty
Works), Light, Fine Castings)

ARKANSAS.

LITTLE ROCK—Thomas-Fordyce Mfg. Co.
Wing & Stephens Co.

CALIFORNIA.

LOS ANGELES—Acme Brass Foundry Co.
Axelsson Machine Co.
Bailey Ornamental Iron Co. (Iron & Brass)
Fulton Engine Works
Hutchison, W. G. Co.
Jones, Jas. & Co.
Llewellyn Iron Works
Los Angeles Stove Co.
McCan Mechanical Works
Meyberg Co.

OAKLAND—Phoenix Iron Works (Inc.)
REDDING—Redding Iron Works
RIVERSIDE—Riverside Foundry & Machine Co.
SACRAMENTO—Sacramento Foundry & Ma-
chine Works
Union Iron Works

SAN FRANCISCO—Atlas Brass Works, 827
Bartels Mill & Moulding Co. Folsom
Enterprise Foundry (Inc.), 2902 19th
Garratt, W. T. Co. (Inc.), 140 Fremont
Greenberg's M. Sons, 225 Beale
Kingwell, Vincent, 1038 Mission
Krenz, Oscar Copper & Brass Works, 212
Fremont

San Francisco Zinc & Brass Foundry Co., 48
Clementina
Tay, Geo. H., Co., 617 Mission.
Union Iron Works, 20th & Michigan.
Western Brass Works, 20 Natoma

COLORADO.

COLORADO SPRINGS—Hassell Iron Works Co.
DENVER—Denver Brass Works Co., 1307 Law-
Denver Iron Works & Foundry Co. renee
Flint-Lomax Electric & Mfg. Co., 1400 Del-
McNamara, J. C., 1431 Blake gany
Slack, B. F., Brass Mfg. Co.
Western Brass Works Co.

PUEBLO—Ortner, Geo. J.
Pueblo Foundry & Machine Co.

CONNECTICUT.

ANSONIA—Ansonia Brass Foundry Co.
Ansonia Brass & Copper Co.
Gaylord, F. L. Co.
Phelps, H. D.

BRIDGEPORT—Belknap Mfg. Co.
Bridgeport Brass Co.
Bridgeport Deoxidized Bronze & Metal Co.
Donovan, P. J. Brass Foundry Co.
Eaton, Cole & Burnham Co.
Hamilton, Jno. Brass Works
Rowell, W. G. Co.

BRISTOL—Bristol Brass Co., Bristol, Conn.
GUILFORD—Spencer's, I. S., Sons.
HARTFORD—Blake, Edwin J.
Capitol Foundry Co.
Craig, Jno. M.
Howard, Jas. L. & Co.
Pratt & Cady Co.

MERIDEN—Foster-Merriam Co.
Meriden Iron & Brass Co.
Miller, Edw. & Co.

MIDDLETOWN—Chapman, W. H. Co.
McAllister, Frank
Wilcox, Crittenden & Co.

MOUNT CARMEL—Woodruff, Walter W. &
Sons Co.

NAUGATUCK—Russell, J. M. Mfg. Co.
 NEW BRITAIN—Flannery, P. J.
 Klnne, W. A.
 Osborne, George H.
 Roche & Conlin.
 NEW HAVEN—Ely, C. U.
 English & Mersick Co.
 Graham, Jas. & Co.
 Hendryx, Andrew B. Co.
 Ives, Hobart B. Co.
 Magnus Metal Co., 248 Cedar
 Peck Bros. & Co.
 Sargent & Co.
 NEW LONDON—New London Marine Iron
 NORWALK—Norwalk Brass Co. Works
 NORWICH—Tracy, C. Oscar
 PLAINVILLE—Clark, A. N. & Son (to order)
 Carter, E. T.
 Carter, L. H.
 Elm City Brass & Rivet Co.
 SHELTON—Meyers, Fred'k (Also Iron).
 STAMFORD—Brown, Chrls
 Stamford Iron & Brass Foundry
 STONINGTON—Miller's, A. B. Sons
 TORRINGTON—TURNER & SEYMOUR
 Mfg. Co. (See adv. index, end of book)
 UNION CITY—Metal Finishing Co.
 WATERBURY—American Pln Co.
 Manufacturers Foundry Co.
 Matthews & Willard Mfg. Co.
 Novelty Mfg. Co.
 Scovill Mfg. Co.
 Steele & Johnson Mfg. Co.
 Waterbury Brass Co.
 Waterbury Brass Goods Corp'n.
 Waterbury Mfg. Co.
 WINSTED—Moore, Franklin Co.

DELAWARE.

WILMINGTON—Remington Machine Co.
 Speakman Supply & Pipe Co.
 Wilmington Brass Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Douglas, Wm. H., 1210 E.
 N W
 Somerville, Thos. Co., 316 13th, N W

FLORIDA.

JACKSONVILLE—McMillan Bros.

GEORGIA.

ATLANTA—Fulton Foundry & Machine Works
 Withers Foundry & Machine Works
 CORDELE—Tomlin-Harris Machine Co.
 SAVANNAH—Kehoe, Wm. & Sons
 Rourke, John & Sons

ILLINOIS.

AURORA—Aurora Metal Co.
 CHICAGO—Acme Metal Mfg. Co., 68 W Monroe
 Acorn Brass Mfg. Co., 203 Fulton (Also
 Aluminum & Iron)
 Adams & Westlake Co. c Ontario & Frank-
 Allen, W. D. Mfg. Co., 151 Lake
 American Bronze Foundry Co., 73d & Wood-
 lawn av
 Anderson, A. H. (Light & Heavy), 52 N
 Anderson Bros., 434 Fulton
 Anderson, Wm. B. Foundry Co., 28 S
 Clinton
 Babbitt, R. M. Brass Foundry Co., 67 W
 Washington
 Bastian, C. L. Mfg. Co., 76 Illinois
 Burdette-Rowntree Co., 85 W Jackson boul
 Chicago Faucet Co., 200 S Clinton
 Chicago Hardware Foundry Co., 50 W
 Washington
 Chicago Nut Co., 118 W. Jackson boul
 Eddy Brass Foundry & Machine Co., 72 W
 Washington
 Empire Brass Works, 127 Fulton
 Excelsior Mfg. Co., 31 S Canal
 Faust Bros., 13 N Jefferson
 Federal-Huber Co., Halsted & Fulton.
 Fowler Brass Works, 2333 Wabash av
 Goetz & Flodin Mfg. Co., 133 W Chicago av
 Harris, Arthur & Co. (Heavy), 44 N. Curtis
 Heath-Johnson Co. (Inc.), 123 Ontario, Can.
 Hewitt Mfg. Co., 303 Railway Exchange
 & 4041 Emerald av
 Hills-McCanna Co., 128 E Kimzie
 Hodgson, John & Co., 1071 W 13th
 Holland, Wm., 107 W Monroe
 Imperial Brass Mfg. Co., 245 S Jefferson
 Mahoney, Pat'k F., 96 W. Lake.
 National Brass Works, 155 Washington

Purcell, N. F. & Co. 232 S Clinton
 Quincy Brass Works, 145 S Clinton
 Ryan, J. J. & Co., 105 S Jefferson
 Smeeth Copper & Bronze Co., 1120 W 22d
 SMITH, F. P. WIRE & IRON
 Works, 100 Lake, Chicago. (See adv. in-
 dex, end of book)
 Stier, Herman Mfg. Co., 552 N Halsted
 Street & Kent Mfg. Co. (Plumbers' Special-
 ties), 43 Fulton
 Weir & Craig Mfg. Co., 2439 Wallace
 Western Brass Mfg. Works, 21st & Rockwell
 White Brass Castings Co., 527 Austin
 av.

EDWARDSVILLE—Edwardsville Brass Co.
 FREEPORT—Stover Mfg. Co.
 GALESBURG—Frost Mfg. Co.
 LITCHFIELD—Litchfield Foundry & Machine
 Co.
 MOLINE—Schmidt, Henry
 Schmidt, Joseph
 PEORIA—Brass Foundry & Heating Co.
 Kinsey & Mahler Co., 400 S Adams
 QUINCY—Bush, Clement (Also Iron)
 Central Iron Works
 Massie, S. B. & Son
 Quincy Foundry & Novelty Co.
 Van Doorn Co.
 ROCKFORD—Dobson Mfg. Co.
 Rockford Brass Works
 SYCAMORE—Turner Brass Works.

INDIANA.

ELKHART—Buescher Band Instrument Co.
 EVANSVILLE—Evansville Brass Works.
 Healey, Peter
 Hellman Machine Works
 Nehring, Wm. H. & Co.
 FORT WAYNE—Fort Wayne Foundry & Ma-
 chine Co.
 INDIANAPOLIS—American Brass & Aluminum
 Dean Bros. Steam Pump Works Works.
 Indianapolis Aluminum & Brass Co.
 Keyless Lock Co.
 Langenkamp-Wheeler Brass Works
 Pioneer Brass Works
 KOKOMO—Kokomo Brass Works
 TERRE HAUTE—Prox & Burget Co.
 Terre Haute Bronze & Brass Foundry.

IOWA.

BURLINGTON—Iowa Novelty Co.
 CEDAR RAPIDS—Dearborn Brass Co.
 DAVENPORT — Davenport Machine &
 Foundry Co.
 Killing, E., Moulding Machine Works.
 DES MOINES—Des Moines Mfg. & Supply Co.
 DUBUQUE—McDonald, A. Y. & Morrison Mfg.
 WATERLOO—Waterloo Brass Foundry Co.

KANSAS.

IOLA—United Iron Works Co.
 KANSAS CITY—Riverside Iron Works Co.
 WICHITA—Walterscheid Machinery & Supply
 Co.

KENTUCKY.

LOUISVILLE—Ahrens & Ott Mfg. Co., 325 W
 Main
 American Brass Foundry, 943 W Main
 American Machine Co., 500 E Main
 Central Mfg. Co., 637 5th
 Jones, Arthur, 211 1st
 Stege, E. A. Mfg. Co., 258 W Jefferson
 Vogt, Henry Machine Co., 10th & Ormsby

LOUISIANA.

JENNINGS—Union Iron Works (Ltd.)
 MONROE—Sanders, Jno. G. (Also Iron)
 NEW ORLEANS—Koretke, F. H. Brass & Mfg.
 Co. (Ltd.), 922 Magazine
 Moore's Brass Foundry, 835 Tchoupitoulas
 Murphy, John H., 625 Magazine
 Swoop, Julian M., 913 Girod

MAINE.

BANGOR—Union Iron Works
 BATH—Bath Iron Works
 Torrey Roller Bushing Works
 Watson, Frye & Co. (Railroad & Mill)
 CALAIS—McCullough & Tait
 CAMDEN—Knowlton Bros.
 DEXTER—Fay & Scott (Also Iron)
 HALLOWELL—Fuller's, Geo. Sons (Also Iron)
 LEWISTON—Maxwell, C. P., Foundry Co.
 MECHANIC FALLS—Penney, J. W. & Sons Co
 PORTLAND—Babbitt, Chas. E. (Also Iron)
 Knight Bros., 304 Fore
 Megguler & Jones Co.
 Portland Co.
 WATERVILLE—Webber & Philbrick

MARYLAND.

BALTIMORE—Baltimore Brass & Plating
 Works, North & Center
 Boehm, Henry E. & Co., 207 North
 Codd, E. J. Co., 700 S Caroline
 Farrell, Edw. P., 1412 Philpot
 Gibson & Klrk, 517 E Montgomery
 Glsriel, Wm., & Son, 1531 Guilford av.
 Kavanagh, Martin J., 7th & Gough.
 Liberty Brass Works, 305 W Lombard
 McShane Bell Foundry Co., Holliday & Cen-
 Mackin, F. M., & Co., 509 N. Spring.
 Maryland Brass & Metal Works
 National Supply Co., 7 W Lombard
 Poole Engineering & Machine Co.
 Richardson, Edro Brass Co., 316 N Holli-
 day
 CUMBERLAND—McKaig, Merwin
 Potomac Engineering Co.
 WESTMINSTER—Register Co.

MASSACHUSETTS.

AMESBURY—Amesbury Brass & Foundry Co.
 BOSTON—Ashton Valve Co., 271 Franklin
 Bay State Brass Foundry, 155 A
 Boston Brass Co., 36 Oliver
 Clark, D. W. & Co., 280 W 1st, S. B.
 D'Este, Julian Co., 24 Canal
 Duncan, Wm., 412 Border
 Gibby Foundry Co., 96 Condor, E. B.
 Granular Metal Co., 77 Farnham
 Hall, Wm. & Co., 4 Dock sq
 Hamlin & Emery Brass Co., 26 Island, Rox.
 104 Portland
 McCafferty, J. H. & Co., 434 Harrison av
 McCaul Brass Foundry Co., 289 South
 McGann, Thos. F., & Sons Co. (Art. etc.),
 104 Portland
 Mowry & Phillips (Rough or Finished, 208
 Camden.

Rogers, Cornelius E., 34 Beach
 Star Brass Mfg. Co., 108 E Dedham
 Union Brass Works, 421 Atlantic av.
 United Copper Foundry Co., 634 Hunt-
 ington av.
 Walworth Co., 128 Federal

CAMBRIDGE—Hayden, G. W.
 CLINTON—Clinton Foundry Co. (Also Iron)
 EAST BRIDGEWATER—Old Colony Foundry
 FALL RIVER—Creighton, T. J. & Co. Co.
 Fall River Foundry & Machine Co.
 Mechanics Foundry & Machine Co.
 FITCHBURG—Hardy, Wm. A. & Sons Co.
 Welch, E. J. & Co.

FOXBORO—Foxboro Foundry Co.
 GARDNER—Gardner General Foundry Co.
 GLOUCESTER—Reed, Geo. A. & Son
 HAYDENVILLE—Bay State Brass Co.
 Haydenville Co.

HOLYOKE—Higgins & Co.
 Holyoke Valve & Hydrant Co.
 LAWRENCE—Fallon, T. F., & Co.
 Gallison Brass Foundry
 LOWELL—Pevey Foundry Co.
 Union Brass Foundry Co.
 MILLBURY—Oakley Steel Foundry Co.
 ORANGE—Hunt, Rodney Machine Co.
 PEABODY—Marine Hardware Co.
 SALEM—Salem Brass Foundry
 Waters, A. S.

SPRINGFIELD—Chamberlain, J. D. H. Mfg.
 Chapman, J. B. & Co. Company
 Emory, P. P. Mfg. Co.
 Hamden Brass Co.
 Hercules Float Works
 Springfield Foundry Co.

TAUNTON—Trefethen, D. A., 4 Porter
 WALTHAM—Waltham Foundry Co.
 WEBSTER—Prescott, J. B. & Son (Also Iron)
 WORCESTER—Cahill Mfg. Co., 18 Lyon
 Kindred & Taylor, 29 Jackson
 Washburn Shops
 Wells Chemical Bronze Works
 Worcester Brass Co., 262 Shrewsbury

MICHIGAN.

ADRIAN—Kells Foundry & Machine Co.
 BATTLE CREEK—Sherman, H. B. Mfg. Co.
 BAY CITY—Bay City Iron Co.
 McCartney, Josiah
 MACKINNON BOILER & MACHINE
 Co. (See adv. index, end of book)
 CHEBOYGAN—Blake, H. A. & Son. (Also
 COLDWATER—Champion Brass Works Iron)
 DETROIT—Allyne Brass Foundry Co., 777
 Bellevue av
 Allyne Brass Foundry Co., 777 Bellevue av
 Baker-Churchill-Lee Co., 907 Michigan av
 Capitol Brass Works
 Detroit Brass Works, 1322 Brooklyn av
 Detroit Copper & Brass Rolling Mills

Detroit Motor Casting Co., 299 Beaufait av
Detroit Ship Building Co.
Diamond Mfg. Co., Summit & W Jefferson av

Eagle Brass Works, Franklin & Duhois
Enterprise Foundry Co., 1135 E Warren av
Essex, G. B. Brass Co., 480 Franklin
Galvin Brass Co., 74 E Fort
Graebert & Purdie, 12 Sherman
Globe Brass Works, 13 Macomb
Hackett Bros., 240-242 Lillibridge av
Hardoin Brass Co., 132 Larned E
Ireland & Matthews Mfg. Co.
Johnston, F. G., 56 2nd
Kennedy & Greig Co., 209 2d av

McKEA & ROBERTS CO. (Steam Brass Goods), 227 Campbell av. (See adv. index, end of book)

National-Fulton Brass Mfg. Co. (Car. Locomotive, etc.)
Osburn Foundry Co.
Scully, W. J. Vent. & Mfg. Co., M. C. R. R. & Beecher

Sherwood Brass Works, 1167 Jefferson av
Standard Brass Works, 528 E Woodbridge
Stephens, Roe Mfg. Co.
Sterling & Skinner Mfg. Co., Russell & Walz, Chris., 278 Division E Grand boul

FLINT—Michigan Motor Casting Co.

GRAND RAPIDS—Attwood Brass Works
Grand Rapids Brass Co.
Harring, F. J. & Co.

Hartmann, H. J. Foundry Co.
Keeler Brass Co.
Remps & Gallmeyer Foundry Co.

Wolverine Brass Works

HANCOCK—Portage Lake Foundry & Machinery Co.
HOLLAND—Huntley, A.

JACKSON—Holton & Weatherwax Co. (Ltd.).
Jackson Brass Foundry Co. (Also Iron)

KALAMAZOO—New Era Mfg. Co.
Star Brass Works

LANSING—Gerson-Carey Co. (Also Bronze & Aluminum)

LAPEER—McDonald, Wm. Sons (Also Iron)

MENOMINEE—Prescott Company

MUSKEGON—Enterprise Brass Works (Frank Holt, Prop'r)

PORT HURON—Draper Mfg. Co.

SAGINAW—Bartlett, A. F. & Co.

TRAVERSE CITY—Round & Son (Also Iron)

MINNESOTA.

DULUTH—Duluth Brass Works Co.
Marine Iron Works

MINNEAPOLIS—Baum's Brass & Model Works
Flour City Ornamental Iron Works, 27th av & 27th, S.

Minneapolis Brass & Iron Mfg. Co.
Twentieth Century Brass & Iron Works

ST. PAUL—St. Paul Brass Foundry Co.
South Park Foundry & Machine Co.

Union Brass & Metal Mfg. Co.
Western Machine Mfg. Co.

MISSISSIPPI.

LAUREL—Laurel Machine & Foundry Co.

NATCHEZ—Shaw, C. P.

MISSOURI.

INDEPENDENCE—Independence Foundry Co.

JOPLIN—Joplin Foundry Co.

KANSAS CITY—Central Brass Works Co.
Crampton-Farley Brass Co. (Plumbers' Specialties), 221 Main

Kansas City Brass Works, 421 W 5th
Kansas City Wire & Iron Works, 1428 Oak

Platt Mfg. Co., 21st & Campbell
Star Brass Works, 409 S W boul

ST. JOSEPH—St. Joseph Brass & Iron Foundry

ST. LOUIS—American Foundry & Mfg. Co., 11th & Hebert
Gilbert, A., & Sons, Brass Foundry, 17 & 19 Forest Park Boul

Hewitt Mfg. Co., 2028 Walnut
Kingsland-Kay-Cook Mfg. Co. (Specialty. Electric R'y, etc.), Mullanphy, 11th to

Kupferle Bros. Mfg. Co., 602 N 2d 12th
Kraushaar Brass Mfg. Co.

Laclede Brass Works, 307 Cedar
Lupfer, Wendel, 216 Locust

More-Jones Brass & Metal Co., 3138 N B'way
Ruppenthal, J. & Son, 1602 N B'way

St. Louis Brass Mfg. Co., Washington & Jefferson avs

NEBRASKA.

FREMONT—Fremont Foundry & Machine Co.

LINCOLN—Hedges, C. E.
Smith, R. L. Machine Works (Also Iron)

OMAHA—Omaha Foundry Co.

YORK—York Foundry & Engine Works

NEW HAMPSHIRE.

CONCORD—Ford & Kimball

EAST CONCORD—Badger, Franklin L.

EXETER—Exeter Brass Works (Plumbers' Specialties, etc.)

LAKEPORT—Cole Mfg. Co.

PENACOOK—Concord Axle Co.

UNION—Hamlin, E. F. Brass Co.

NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co. (1/4-oz to 20,000 lbs.)

BLOOMFIELD—Benson, H. K. & F. S.
Empire Foundry Co.
Jenkins Mfg. Co.

CAMDEN—Camden Metal Co.
Voight Metal Co., 5th nr Erie

EAST NEWARK—Hewitt, Jno. Foundry Co.

ELIZABETH—Elizabeth Machine & Iron W'ks
Elizabethport Brass Foundry Co.

FLEMINGTON—Foran Foundry & Mfg. Co.

HARRISON—Shriver, T. & Co.

HOBOKEN—Fletcher, W. & A. Co.
Moller, Henry (all kinds of Castings), 702 Union Iron Works

JERSEY CITY—Brady Brass Co., 204 10th
Gothberg, H. & E., 139 Cator av

GRISCOM-SPENCER CO. Grand & Sussex. (See adv. index, end of book)

Krouse, Geo. (Heavy), 150 Morgan
Magnus Metal Co., 364 9th

Murphy, Wm. J., 279 10th
Williams, E. A. & Son, 105 Plymouth

LYNDHURST—Leslie Co., Inc.

NEWARK—Bushauer, P. (Est. of), 261 Elm
Chambers & Ainslee, 2 Commercial
Defreville & Masset, 60 Elm

Goldsmith, C. A., 42 Cutler
Hedges & Bro., 12 R. R. pl

Josts, E. Sons, 48 Dickerson
Newark Brass Works, 17 Mulberry

Schueler, Anthony & Co., 44 19th av
Smith, A. P. Mfg. Co., Passaic av & Brill

Wheaton, A. W. Brass Works, 68 N J R R
Zusi, Edw'd, 80 Mechanic av

Zusi, Edw'd A., 101 Monroe

PATERSON—Finigan-Zabriskie Co. (Todd Mills; Brass & Iron Castings)

PERTH AMBOY—Schantz & Eckert (Also Iron)

SALEM—Salem Brass & Iron Mfg. Co.

TRENTON—Superior Iron Works
Trenton Brass & Machine Co.
Watson, John & Sons Co.

VINELAND—Weaber, Adam

NEW YORK.

ALBANY—Albany Brass & Iron Co., 24 De
Cox Brass Mfg. Co. Wilt

Gaynor, P. F., 18 William
Hartnett, John J., 16 De Witt

Thacher, Geo. H. & Co.

BALLSTON SPA—Davison-Namack Foundry Co.

BUFFALO—Acme Steel & Malleable Iron Works, 245 Military rd

Allyne Brass Foundry Co.
Case, W. A. & Son Mfg. Co., 31 Main

Fries & Co., 89 Main
Josef, E. E. Mfg. Co., Wash'n & Perry

LUMEN BEARING CO. (See adv. index, end of book)

Maute, J. & Sons, 23 Kane
Noye Mfg. Co., 50 Lakeview av

Pohlmann, John W., E Delavan av & Erie R. R.

Schmah, Jno. H. & Albee, 471 Ellicott

Sherwood Mfg. Co.
Standard Foundry Co., 50 Lakeview av

Unique Metal Co., 18 Elk
Zero Valve & Brass Mfg. Co., 417 Chicago

COHOES—COHOES IRON FOUNDRY & Machine Co. (See adv. index, end of book)

GLENS FALLS—Dix Foundry & Machine Co. (Also Iron)

GRASSY POINT—Wiles, A. M. & W. H. Co. (Also Iron)

JAMESTOWN—Jamestown Metal Furniture Company

LOCKPORT—Holly, Carlos Co. (Also Iron)
Kugler, Henry

McKim Foundry & Machine Co.

MOUNT VERNON—Henry-Bonnard Bronze Co.

NEWBURGH—ABENDROTH & ROOT Mfg. Co. (See adv. index, end of book)

Chadburn & Coldwell Mfg. Co.
Coldwell, Wilcox Co.

Kimball's, S. G. Son
Marvel, T. S. Shipbuilding Co.

Newburgh Ice Machine & Engine Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Atlantic Basin Iron Works, Im-lay & Summit

BLISS, E. W. CO., 19 Adams. (See adv. index, end of book)

Columbia Machine Works & Malleable Iron Foundry Co., 269 Chestnut

Connolly, P. (And Finishings), 1154 Atlantic, av

Coyne & Delaney Co., 303 Rodney

Creamer, W. G. & Co., Creamer & Smith

Hamilton, Robert, 85 Adams

Holdsworth Foundry Co.

Huethwohl, Louis, 513 Flushing av

Jefferson Brass Foundry, 209 King

Jones, Chas. W., 137 N. 10th

Staats, Geo. & Co., 252 Lorimer

Taylor & Co. (Inc.) (Also Iron). Morgan & Norman avs

Boroughs of Manhattan & Bronx.

NEW YORK—ABENDROTH & ROOT Mfg. Co., Fulton Bldg., 50 Church.

(See adv. index, end of book)

Atlantic Brass Co. (Car. etc.), 192 B'way

Bethlehem Steel Co., 111 B'way

Bristol Brass Co., 46 W B'way

Claudat, Frank & Son, 424 E 23d

Cornell, J. B. & J. M., 26th & 11th av

Creamer, W. G. & Co., 96 John

Cunningham, Wm. J., 671 Water

DIAMOND EXPANSION BOLT CO., 90 West. (See adv. index, end of book)

DOBBIE FDRY. & MACHINE CO., 82 Warren. (See adv. index, end of book)

Federal-Huber Co., 244 5th av

Enuphyll Bronze Co., 282 E 134th

Fox's, B. Sons, 513 W 34th

G. & W. MFG. CO., 26 Cortlandt. (See adv. index, end of book)

Gallagher's, Jas. Sons, 87 Centre

Gillen, J. F. & Son, 124 Baxter

GORHAM CO. ARCH'L BRONZE (High Grade), 5th av & 36th, Works: Providence, R. I. (See adv. index, end of book)

Gnerin, P. E. (Inc.), 23 Jane

Hampson, Wm. P., 520 W 22d

Hardware & Woodenware Mfg. Co. (Small). Harper, Thos., 400 Broome 826 B'way

Henry-Bonnard Bronze Co., 5 E 42d

Levett, Walker M., 462 10th av

McCauley, Frank, 502 W 25th

Magnus Metal Co., 111 B'way

Manhattan Brass Co., 334 E 28th

Nelson, Chas., 439 E 10th

N. Y. Brass Foundry Co., 104 Centre

Scholl, Adam, 451 E 138th

Tuttle & Bailey Mfg. Co., 83 Beekman

WHEELER, CHARLES CHILD (All Sizes), 113 B'way, New York. (See adv. index, end of book)

White, Sam'l, 557 W 35th

Borough of Queens.

ASTORIA—Federal Brass & Bronze Co.

MASPETH, Long Island City—Queensborough Brass & Bronze Foundry

Richey, Browne & Donald

(End of New York City)

NIAGARA FALLS—DOBBIE FDRY. & Machine Co. (See adv. index, end of book)

NORTH TONAWANDA—Herschell-Spillman Co.

ROCHESTER—Clum & Atkinson

Enterprise Foundry Co., 48 Olean

Nunn Brass Works, 17 Wentworth

Wray, Henry & Son, 193 Mill

ROME—Rome Brass & Copper Co.

SANDY HILL—Sandy Hill Iron & Brass Works (Also Iron)

SENECA FALLS—Climax Specialty Co. (Plumbers' Specialties)

Rumsey & Co.
Seneca Falls Mfg. Co.

SYRACUSE—Caldwell & Ward Brass Co.

McVey & Kratz, 116 Richmond av.

Oherdorfer, M. L. Brass Co., 804 E Water

Phelps, E. E., 1610 N Salina

Senk, Jno. & Bro., 1515 Lodi

Syracuse Aluminum & Bronze Co.

TROY—Gurley, W. & L. E.
Kemp Brass & Bronze Co.

UTICA—Blasier, M. E. Mfg. Co.
Merriam, F. M.

Utica Brass Works

NORTH CAROLINA.

NEWBERN—Newbern Iron Works & Supply Co.

RALEIGH—Raleigh Iron Works Co.

WILMINGTON—Wilmington Iron Works

OHIO.

AKRON—Adamson Machine Co.
Akron Foundry Co.
Krisher, Perry A.
Star Drilling Machine Co.

BELLEFONTAINE—Bellefontaine Foundry & Machine Co.
CANTON—Balm, J. A.
Best Light Co.
Canton Brass Co.
Elbel Co.
Stark Foundry Co.

CINCINNATI—Acme Brass Foundry, 216 W Pearl Front
American Copper & Brass Works, 614 E Front
American Valve & Meter Co., 1119 Gest
Behrens, F. D. Co., 420 E Court
Bourbon Copper & Brass Works Co., 618 E Front

CINCINNATI MFG. CO., 1243 W 6th. (See adv. index, end of book)
Crane & Breed Mfg. Co., 1227 W 8th
Deckhach, F. C. Sons Co., 123 W Court
Edna Smelting & Refining Co. (Light & Heavy), 525 Reading rd
Electric Railway Equipment Co., 1938 W 8th
Eureka Brass Works, 1040 Hulbert av
Fewlass-Leen Brass & Iron Co., 456 E 2d
Globe Brass Works, 62 Elm
Hesterberg, R. & Co., Spring Grove & Garrard av
Hoppe, Chas., 632 Main
Kinsley, J. R., 115 E 6th
Kirkup, Robt. & Co., 616 Lodge
Kisinger-Ison Co., 1734 Powers
Klotter, Geo. F. Co., 1722 Central av.

LUNKENHEIMER CO., Beekman & Waverly. (See adv. index, end of book)
McGowan, Jno. H. Co., 54 Central av
Model Brass Foundry, 1212 Race
National Brass Mfg. Co., 1115 Marshall av
Ohio Brass Foundry, 209 Lawrence
Powell, Wm. Co., 2525 Spring Grove av
Queen City Brass & Iron Works, Spring Grove & Garrard avs
Richter & Co., 210 E 9th
Riegler & Son, 316 Perry
Van Duzen, E. W. Co., 428 E 2d

CLEVELAND—Acme Brass Works, 2662 E 76th, S. E.
Aetna Brass Mfg. Co., 4800 Hamilton av
Allyne Brass Foundry Co.
Brookside Brass Foundry & Mfg. Co., 2315 Selzer av, S. W.
Bruce-Macbeth Engine Co.
Buckeye Brass Fdry, 1807 Columbus rd., N. W.
Central Brass Mfg. Co., 6203 Cedar av
City Brass Foundry Co.
Cleveland Brass Works, 2102 Abbey av, S W
Cleveland Bronze & Brass Works (Light & Heavy)
Cochrane, John A., 1403 E 40th, N E
Farnan Brass Works (Plumbers' Specialties)
Glauber Brass Mfg. Co., 4917 Superior av, N E
Hunger & Scheldegger, 928 Champlain av, N W
Ideal Bronze Co., 1265 E 55th, N E
Industrial Pattern & Bronze Co., 988 E 67th N. E.
Monarch Brass Co., 4613 Payne av
Ohio Brass & Iron Mfg. Co., 8205 Franklin
Standard Brass Foundry Co., 6524 Central av, S E
United Brass Mfg. Co., 3844 Hamilton av, N E
H. S. Bronze Co., 1831 Columbus

COLUMBUS—Buckeye Brass Co.
Columbus Brass Co., 210 N 4th

DAYTON—Buckeye Iron & Brass Works
Dayton Mfg. Co.
Dennick, Wm. & Co.
Hoban Brass Foundry Co., 44 Wyandot
Miami Brass Foundry Co.

ELYRIA—Elyria Machine Parts Co.
FINDLAY—Findlay Foundry & Machine Co.
GENEVA—Champion Safety Lock Co.
HAMILTON—Hamilton Copper & Brass Wks
LIMA—Lima Locomotive & Machine Co.
MANSFIELD—Berry, J. H.
Mansfield Tempered Copper Co.
Ohio Brass Co.

MARIETTA—Pattin Bros. Co. (Also Iron)
MASSILLON—Russell Engine Co.
NORWALK—Norwalk Iron & Brass Foundry
SANDUSKY—Klotz Machine Co.
SPRINGFIELD—Nolte Brass Co. (For All Purposes, Rough & Finished), 27 W Jefferson Springfield Brass Co.

STUBENVILLE—Means Foundry & Machine
TOLEDO—City Brass Works Co.
Seeger, Valentine

Toledo Brass & Novelty Works
Toledo Ship Bldg Co.
Vulcan Steam Shovel Co.

YOUNGSTOWN—Falcon Bronze Co.
United Engineering & Foundry Co. (All Weights)
Youngstown Bronze & Iron Foundry Co.

OREGON.

ALBANY—Albany Iron Works (also Iron)
ASTORIA—Astoria Iron Works (Inc.)
OREGON CITY—Roake, J. A. (also Iron)
Oregon Brass Works
Oregon Foundry Co., 471 E Alder
Phoenix Iron Works, Hawthorne c E 3d
Portland Iron Works, 495 Northrup
Willamette Iron & Steel Works, 4th & Gilsan

PENNSYLVANIA.

ALLEGHENY—Damascus Bronze Co., 928 South av
Pittsburg Lamp, Brass & Glass Co., Locust & River av

ALLENTOWN—Spangler, Chas., 3d & Walnut
Vulcan Brass Works
BEAVER FALLS—Knott & Harker Co.
BLOOMSBURG—Harman & Hassert
CATASAUQUA—Hercules Metal Works
CHESTER—Crown Smelting Co.
Wetherill, B. & Co.

CONNELLSVILLE—Boys, Porter & Co. (Also Iron)
Connellsville Machine & Car Co. (Also Iron)
CONSHOHOCKEN—Bate, Wm. T. & Son
CORY—Ajax Iron Works (Also Iron)
DANVILLE—Danville Foundry & Machine Co. (Up to 2000 lbs.)
EASTON—Easton Brass & Machine Works
ERIE—Campbell, J. B. Brass Works
Erie Stamping & Mfg. Co.
Keystone Brass Co.
Noyes Brass Works
Etna Roessing Bronze Co. "High Grade"

GREENSBURG—Kelly & Jones Co.
HARRISBURG—Harrisburg Metal Co.
Hickok, W. O. Mfg. Co.

HOMESTEAD—Homestead Valve Mfg. Co.
JOHNSTOWN—Flood City Mfg. Co.
Suppes Forge & Foundry Co.

LANCASTER—Conestoga Joh & Brass Foundry
Frain, E. T., Lock Co.
Hubley Mfg. Co.
Miller, J. Walter, Co.
Slaymaker Lock Mfg. Co.

MARIETTA—Marietta Casting Co.
MONONGAHELA—Monongahela Casting Co.
NEW BRIGHTON—Brighton Brass & Bronze Co.

NEW CASTLE—American Car & Ship Hdw. Douds, Frank C. & Co. Mfg. Co.

NORRISTOWN—Rittenhouse, S. C., Sons
Wildman Mfg. Co.

NORTH EAST—Eureka Tempered Copper Works
PHILADELPHIA—Ajax Metal Co., 48 Richmond
Belfield, H. & Co., 435 N Broad
Bridgman Bros. Co., 1422 Washington av
Bureau Bros., 21st & Allegheny av
Caskey, Wm. & Son, E Norris & Beach
Cohocksink Brass Foundry, 439 Berks
Cramp, Wm. & Sons Ship & Engine Building Co., Beach c Ball
Devlin, Thos. Mfg. Co., 3d & Lehigh av
Evans, S. W. & Son, 4623 Paul Fkd.
Excelsior Brass Works, 1517 Spring
Eynon-Evans Mfg. Co., Clearfield & N 15th
Furlow & Co., 2020 E Willard
Ganmer, John L. Co., 22d & Wood
Griffiths, Jas. A., 500 N 12th
Halstead & Co. (Founders & Finishers), 1129 Cherry

Hartman Co., 1235 N Front
Hill, B. B. Mfg. Co., 1020 Newmarket
Hoag, R. C. & Co., 1146 Catherine
Homer Brass Works (Inc.), 231 Race
Kirn, M. L. & Bro., 2135 N Lawrence
Lapp, Geo. W., 718 Cherry
Lonerzan, J. E., & Co., 211 Race
McHatton Smelting Co., 1500 Wash'n av
Morris, I. P. Co., Beach & Ball
Mousley, Chas. Sons, 457 N 12th
Newell Brass Mfg. Co. (And Finishers), 445 N Broad

North American Smelting Co., Thompson & Ott, Geo. F., 207 Buttonwood N 9th
Philadelphia Hardware & Malleable Iron Works (Inc.), 9th & Jefferson
Phosphor-Bronze Smelting Co. (Ltd.), 2200 Wash'n av

Reeves, Paul S. & Son (Red & Yellow Brass, etc.), 1415 Catharine
Rosenthal's, Jos. Sons, 190 Berks
Savill, Thos. & Sons, 11th & Wood
Schoenewald, Robt., 1027 Ridge av

Sheeler-Hemsher Co., 811 Fairmont av
Talmage & Weldley, 228 N 15th
Wright Mfg. Co. (Inc.), 133 Master

PITTSBURG—Best Mfg. Co., 25th & A. V. Ry.
Cadman, A. H. Mfg. Co., 2814 Smallman
Chaplin-Fulton Mfg. Co., 28 Penn av
Hydraulic Machine Co., North Side
Iron City Brass Foundry, 5315 Butler
Kelly & Jones Co., 135 Water
Keystone Bronze Co., 38th & A. V. Ry.
Mackintosh-Hemphill & Co.
Mesta Machine Co., Lewis bldg
Newlands Bros., 28th & A. V. Ry.
Pittsburg Brass Mfg. Co., 3153 Penn av

PITTSBURGH GAGE & SUPPLY Co., 30th & Liberty av. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry. (See adv. index, end of book)

United Engineering & Foundry Co. (All Weights), Farmers' Bank bldg

POTTSTOWN—Light Mfg. & Foundry Co.
Mayo Damper Co. (Also Aluminm & Bronze)

READING—Connard, Henry
Crescent Brass Mfg. Co.
Dick Bros.
Excelsior Brass Works (Inc) (Dry & Green Sands)
Hercules Brass Foundry
Kline & Co.
National Brass & Iron Works

SCOTSDALE—Scottdale Foundry & Machine Co.
SCRANTON—Everhart Brass Works
Hughes Bros.
McClave-Brooks Co.
Scranton Steam Pump Co.

SOUTH BETHLEHEM—Bethlehem Steel Co.
WARREN—Allegheny Foundry Co.
Jacobson Machine Mfg. Co. (Also Iron)

WILKES-BARRE—Vulcan Iron Works
WILLIAMSPORT—Darling Pump & Mfg. Co.
United States Machine Co. (also Iron)
Valley Iron Works (also Iron)

YORK—Penna. Foundry Co.

RHODE ISLAND.

CENTRAL FALLS—Newell, Fred. E.
PAWTUCKET—Jenkinson, John
McKenna, Frank & Co.
Pawtucket Foundry Co.

PROVIDENCE—Allen Fire Dept. Supply Co.
D & W FUSE CO. (See adv. index, end of book)
Fuller, Frederic, 604 S Main
Lyon, J. W., 46 Clifford
Providence Brass Foundry & Machine Co., Rhode Island Brass Foundry 460 Eddy
White, Stillman Foundry Co., 1 Bark

WOONSOCKET—Woonsocket Machine & Press Co.

SOUTH CAROLINA.

COLUMBIA—Columbia Machine & Iron Works

TENNESSEE.

CHATTANOOGA — Price-Evans Foundry Co. (Also Iron)
KNOXVILLE—Fair Foundry Co.
Knoxville Foundry & Machine Co.
MEMPHIS—Chickasaw Iron Works, 2d & Winchester
Memphis Brass Works

TEXAS.

BEAUMONT—Beaumont Iron Works
DALLAS—Dallas Brass Mfg. Co.
Mosher Mfg. Co.
Noiset, Louis A.

DENISON—Knaur & Howe (Also Iron)
Knaur, W. E. & Co.

EL PASO—Union Iron & Brass Works
FORT WORTH—Midland Brass Works
GALVESTON—Walsh & Cleary (also Iron)
HOUSTON—Dickson Car Wheel Co.
MARSHALL—Marshall Car Wheel & Foundry Co.
TYLER—Tyler Iron Works
WEATHERFORD—Weatherford Machine & Foundry Co.

UTAH.

SALT LAKE—Salt Lake Engineering Works
Union Foundry & Machinery Co.

VERMONT.

BELLOWS FALLS—BelloWS Falls Machine Co.
POULTNEY—Ruggles Machine Co.
ST. ALBANS—St. Albans Foundry & Implements Co.

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VIRGINIA.

LYNCHBURG—Hubard Foundry & Machine Works
NORFOLK—Edmonds, W. A., & Co.
Etna Iron Works
Ridgewell & Hall
RICHMOND—Carr, Jas. W.
McGee, O. G. & Son
Richmond Foundry & Mfg. Co. (Light)
Richmond Iron Works
Tredegar Co.
SUFFOLK—Ousler, H. R. (Also Iron)

WASHINGTON.

BALLARD—Ballard Iron Works
BELLINGHAM—Bellingham Engineering & Machine Works
OLYMPIA—Olympia Iron Works (C. Z. Mason, Prop.) (Also Iron)
SEATTLE—Enterprise Brass Foundry Co.
Moran Co., R. R. av nr Charles
Seattle Brass Co., Andover & Liberty
Tracy Bros., S 8th av & Plummer
Vulcan Iron Works, 5th av & Seattle boul
SPOKANE—National Iron Works
Pacific Iron Works
Union Iron Works
TACOMA—Griffin Wheel Co. (also Iron)
Puget Sound Iron & Steel Works
Tacoma Brass & Machine Works

WEST VIRGINIA.

NEW CUMBERLAND—Davis-Price Foundry & Machine Co.
PARKERSBURG—Parkersburg Casting Co.
Stiles Foundry & Supply Co.
POINT PLEASANT—Point Pleasant Machine Works
WHEELING—Wheeling Mold & Foundry Co.

WISCONSIN.

BELOIT—Beloit Brass Works
BURLINGTON—Burlington Brass Works (Brass Founders & Finishers)
KENOSHA—Badger Brass Mfg. Co.
Frost Mfg. Co.
LA CROSSE—Franklin Iron Works (Also Iron)
MERRILL—Merrill Iron Works
MILWAUKEE—Hewitt Mfg. Co. (Up to 2000 lbs.), 241 Greenfield av

Hoffmann, B. Mfg. Co., 257 6th
Hoffman & Billings Mfg. Co., 96 2d
Johnson Service Co.
Kagel Bros., 1208 St. Paul av
Kruecke Bros. Mfg. Co., 515 Park
Lamp & Miller Mfg. Co., 509 Cedar
Loeffelholz Co., 170 Clinton
Milwaukee Aluminum & Brass Co.
Milwaukee Valve Co., 139 Burrell
Rundle-Spence Mfg. Co., 63 2d
Spence Mfg. Co., 279 Park
Standard Brass & Iron Works
Wambold-Brunschweiler Co., 270 4th
Wisconsin Foundry Co., 32d & Locust
RACINE—Belle City Mfg. Co.
Holbrook-Armstrong Iron Co. (Light & Heavy), Racine, Wis.
Racine Brass & Iron Co.
RICE LAKE—Peters, J. H.
SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co.
STEVENSON—Cook, R. A.
WATERTOWN—Brandt, Edw. J. Dent Co.

Castings (Bridge)

American Brake Shoe & Foundry Co., Mahwah, N. J., & Western Union bldg, Chicago, Ill.
Builders' Iron Foundry (For Calssons, etc.), Providence, R. I.
Chester Steel Castings Co., 407 Sansom, Phila., Pa., & Chester, Pa.
Nunning, Frank & Son, 215 W 2d, Cincinnati, O.

Castings (Bronze)

(See also Castings, Aluminum; Castings, Brass; Castings, Copper; Castings, Phosphor Bronze)
Acorn Brass Mfg. Co., 203 Fulton, Chicago, Ill.
Ajax Metal Co., 46 Richmond, Philadelphia, Pa., & Birmingham, Ala.
Allyne Brass Foundry Co., Buffalo, N. Y.
American Brass & Aluminum Co., Indianapolis, Ind.
American Bronze Co. ("Non-Gran"), Berwyn, Pa.
American Bronze Foundry Co., 73d & Woodlawn, Chicago, Ill.
American Car & Ship Hdw. Mfg. Co., New Castle, Pa.

American Foundry & Mfg. Co., 11th & Herbert, St. Louis, Mo.
American Pin Co., Waterbury, Conn.
Anderson, A. H. (Light & Heavy), 52 N Ann, Chicago, Ill.
Angus, C. H., Albany, N. Y.
Appleton Screen Plate Co., Appleton, Wis.
Attwood Brass Works (Heavy), Grand Rapids, Mich.
Aurora Metal Co., Aurora, Ill.
Babbitt, Chas. E., Portland, Maine.
Bastian, C. L. Mfg. Co., 76 Illinois, Chicago, Ill.
Bay State Brass Foundry, 155 A. So. Boston, Mass.
Beaver Valley Metal Co., New Brighton, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
Best Light Co., Canton, O.
Blake, Edwin J., Hartford, Conn.
Brady Brass Co., 204 10th, Jersey City, N. J.
Bridgeport Deoxidized Bronze & Metal Co., Bridgeport, Conn.
Brighton Brass & Bronze Co., Pittsburg, Pa.
Bristol Brass Co., Bristol, Conn., & 46 W B'way, New York
Brown, Chris., Stamford, Conn.
Buckeye Brass Foundry, Cleveland, O.
Buckeye Brass Foundry, Vine & Armstrong, Columbus, O.
Buckeye Iron & Brass Wks., Dayton, O.
Builders' Iron Foundry (Light & Heavy, up to 70,000 lbs.), Providence, R. I.
Bureau Bros., Allegheny ave., c. N. 21st, Phila., Pa.
Cadman, A. W. Mfg. Co., 2814 Smallman, Pittsburg, Pa.
California Artistic Metal & Wire Co., 351 Seventh, San Francisco, Cal.
Canton Brass Co., Canton, O.
Chambers & Ainslee, Newark, N. J.
Champion Safety Lock Co., Geneva, O.
Chapman, J. B. & Co., Springfield, Mass.
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
City Brass Foundry Co., Cleveland, O.
Cladat, Frank & Son, 424 E 23d, New York
Cleveland Bronze & Brass Works (Light & Heavy), Cleveland, O.
Clim & Atkinson, Rochester, N. Y.
COHOES IRON FOUNDRY & MACHINE Co., Cohoes, N. Y. (See adv. index, end of book)
Connellsville Machine & Car Co., Connellsville, Pa.

Cornell, J. B. & J. M., Co., 26th & 11th av,
New York
Cox Brass Mfg. Co., Albany, N. Y.
Crown Smelting Co., Chester, Pa.
D & W FUSE CO., Providence, R. I.
(See adv. index, end of book)
Damascus Bronze Co., Allegheny, Pa.
Darling Pump & Mfg. Co. (Ltd.), Williamsport,
Davies & Thomas Co., Catasauqua, Pa. Pa.
Dayton Mfg. Co., Dayton, O.
Demsey, Jno. F. & Co., Lynn, Mass.
Eastwood Wire Mfg. Co. (1/4-oz. to 20,000 lbs.),
Belleville, N. J.
Elyria Machine Parts Co., Elyria, O.
Enterprise Brass Works, Muskegon, Mich.
Enterprise Foundry Co., Rochester, N. Y.
Eynon-Evans Mfg. Co., 1509 Clearfield, Phila.,
Pa., & 32 B'way, New York
Eureka Tempered Copper Works, North East,
Falcon Bronze Co., Youngstown, O. Pa.
Frain, E. T., Lock Co., Lancaster, Pa.
Frankham, Wm., Son, Canton, O.
Fries & Co., 91 Main, Buffalo, N. Y.
Fuller, Frederic, Providence, R. I.
Garratt, W. T. & Co. (Inc.), 140 Fremont, San
Francisco, Cal.
Gilb, V. & Son, Birmingham, Ala.
GORHAM CO. ARCH'L BRONZE
(High Grade), 5th av & 36th, New York;
Works: Providence, R. I. (See adv. index,
end of book)
Grand Rapids Brass Co., Grand Rapids, Mich.
GRISCOM-SPENCER CO., 90 West,
New York, & ft. Washington av, Phila-
delphia, Pa. (See adv. index & branch of-
fices, end of book)
Guerin, P. E. (Inc.), 23 Jane, New York
Halstead & Co., 1129 Cherry, Philadelphia, Pa.
Hamilton Metal Co. (Inc.), 2235 Vine, Phila-
delphia, Pa.
Hampden Brass Co., Springfield, Mass.
Hardware & Woodenware Mfg. Co. (Small),
826 B'way, New York
Hardy, Wm. A. & Sons Co., Fitchburg, Mass.
Heath-Johnson Co. (Inc.), 123 Ontario, Chicago,
Ill.
Henry-Bonnard Bronze Co., Sales Office, 5 &
7 E 42d, New York; Works: Mount Ver-
non, N. Y.
Hendryx, Andrew B. Co., New Haven, Conn.
Henzman, Richard, Louisville, Ky.
Hewitt Mfg. Co. (Up to 2,000 lbs.), 9 Jack-
son boul, Chicago, Ill.
Hoban Brass Foundry Co., Dayton, O.
Ideal Bronze Co., Cleveland, O.
Industrial Pattern & Bronze Co., 998 E. 67th,
N. E., Cleveland, O.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Ives, Hobart B. Co., New Haven, Conn.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York, & 163 Michigan
av, Chicago, Ill. (See adv. index, end of
book)
Jamestown Metal Furniture Co., Jamestown,
N. Y.
Jefferson Brass Foundry, 209 King, Brooklyn,
Jenkins Mfg. Co., Bloomfield, N. J. N. Y.
Johnson Service Co., Milwaukee, Wis.
Jones, Jas. Co., Los Angeles, Cal.
Keystone Bronze Co., Pittsburgh, Pa.
Kindred & Taylor, Worcester, Mass.
Kingsland-Kay-Cook Mfg. Co., Mullanphy, 11th
to 12th, St. Louis, Mo.
Knott, Harker & Co., Beaver Falls, Pa.
Kraushaar Brass Mfg. Co., St. Louis, Mo.
Kruecke Bros. Mfg. Co., 515 Park.
Laughlin, Thos. Co., Portland, Me.
LAWRENCEVILLE BRONZE CO.
(Railroad, Machinery, etc.), 31st & Penn
av, Chicago, Ill. (See adv. index, end of
book)
Leslie Co., Inc., Lyndhurst, N. J.
Levett, Walker M., 462 10th av, New York
Liberty Brass Works, 303 W. Lombard, Bal-
timore, Md.
Light Mfg. & Foundry Co., Pottstown, Pa.
Livermore, Homer F., 85 Pearl, Boston, Mass.
LUMEN BEARING CO., Buffalo, N. Y.
(See adv. index, end of book)
LUNKENHEIMER CO., General Of-
fices, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of book)
McCartney, Josiah, Bay City, Mich.
McCafferty, J. H. & Co., Boston, Mass.
McGann, Thos. F. & Sons Co. (Art, etc., 104
Portland, Boston, Mass.
McShane Bell Foundry Co., Holliday & Centre,
Macneir, Leonidas, 624 Arch Baltimore, Md.
Magnus Metal Co., 111 B'way, New York
Manhattan Brass Co., 334 E 28th, N. Y.
Mansfield Tempered Copper Co., Mansfield, O.
Mesta Machine Co. (Heavy Rolling Mill, etc.),
Pittsburg, Pa.
Midland Brass Works, Fort Worth, Tex.

Miller, J. Walter, Lancaster, Pa.
Miller, Edward & Co., Meriden, Conn., & 28 W
B'way, New York
Minneapolis Brass & Iron Mfg. Co., 116 1st av,
N. Minneapolis, Minn.
Montana Iron Works, Butte, Mont.
Morris, I. P. Co., Beach & Bail, Phila., Pa.
Mousley, Chas. & Sons, 457 N. 12th, Phila., Pa.
Murdock-Shaw Co., Boston, Mass.
National Aluminum Co., 153 Milk, Boston,
Mass.
National-Fulton Brass Mfg. Co. ("Monarch"),
Detroit, Mich.
Nazareth Foundry & Machine Co., Nazareth, Pa.
Newell, Fred E. (Also Aluminum Bronze), Cen-
tral Falls, R. I.
Noelke-Richards Iron Works, Indianapolis, Ind.
Norwalk Brass Co., Norwalk, Conn.
Noyes Brass Works, Erie, Pa.
Nute Foundry Co., Guyahoga Falls, O.
Oberdorfer, M. L. Brass Co., Syracuse, N. Y.
Ohio Brass Co., Mansfield, O.
Ohio Brass Foundry (all kinds of Bronze and
Brass Castings), 209 Lawrence, Cincinnati,
Ohio
Ohio Pump & Brass Co., Columbus, O.
Osburn Foundry Co., 74 Fort, E, Detroit.
Petry, N. A., 422 Commerce, Mich.
Pevey Bros., Lowell, Mass.
Philadelphia Bronze Works, 811 Cherry.
Philadelphia Hardware & Malleable Iron Works
(Inc.), 9th & Jefferson, Phila., Pa.
Phosphor Bronze Smelting Co., 2200 Wash'n
av, Philadelphia, Pa.
Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Pioneer Brass Works, Indianapolis, Ind.
PITTSBURGH VALVE, FOUNDRY &
Construction Co., 26th & A V Ry., Pitts-
burgh, Pa. (See adv. index, end of book)
Portland Co., Portland, Me.
Pratt & Cady Co., Hartford, Conn.
Providence Brass Foundry & Machine Co., Prov-
idence, R. I.
Raquette Foundry & Supply Co. (Heavy), Mas-
sena, N. Y.
Reeves, Paul S. & Son, 1413 Catherine, Phila-
delphia, Pa.
Rhode Island Brass Foundry, Providence, R. I.
Richardson, Edro Brass Co., Baltimore, Md.
Richey, Browne & Donald, Maspeth, Borough of
Queens, New York City
Ridgway Foundry Co., Ridgway, Pa.
Roessing Bronze Co. ("High Grade"),
Etna, Pa.
Roman Bronze Works, 275 Greene, Brooklyn,
Rowell, W. G. Co., Bridgeport, Conn. N. Y.
Russell Engine Co., Massillon, O.
Russell, J. M. Mfg. Co., Naugatuck, Conn.
Ryan, J. J. & Co., 105 S Jefferson, Chicago,
Ill.
ST. PAUL FOUNDRY CO., Como av. &
Mackubin, St. Paul, Minn. (See adv.
index, end of book)
Sanford David C. Co., Bridgeport, Conn.
Sheeler-Hemsher Co., 811 Fairmount av, Phila.,
Pa.
Sherwood Brass Works, Detroit, Mich.
Sherwood Mfg. Co., Buffalo, N. Y.
Shriver, T. & Co., Harrison, N. J.
Slack, Ben. F., Brass Mfg. Co., Denver, Colo.
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
Spence Mfg. Co., 279 Park, Milwaukee, Wis.
Spencer's, I. S. Sons, Guilford, Conn.
Springfield Brass Co., Springfield, O.
Standard Bronze Co., Pittsburg, Pa.
Stover, Mfg. Co., Freeport, Ill.
Syracuse Aluminum & Bronze Co., Syracuse,
N. Y.
Thacher, Geo. H. & Co., Albany, N. Y.
Tiffany Studios (High Grade), 347 Madison av,
New York
Toledo Brass & Novelty Works, Toledo, O.
Toledo Shipbuilding Co., Toledo, O.
Turner Brass Works, Sycamore, Ill.
TURNER & SEYMOUR MFG. CO., Tor-
rington, Conn. (See adv. index, end of
book)
Tuttle & Bailey Mfg. Co., 83 Beekman, New
York
Twentieth Century Brass & Iron Works, Min-
neapolis, Minn.
Union Brass Fdy. Co., Lowell, Mass.
United Engineering & Foundry Co. (All
Weights), Farmers' Bank bldg, Pittsburg
U. S. Bronze Co., 1831 Columbus road, Cleve-
land, O.
Valley Iron Works Co., Appleton, Wis.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.
Watson, Frye & Co. (Railroad, Mill & Marine,
Acid Proof, 1/4 to 20,000 lbs), Bath, Me.
Wells Chemical Bronze Works, Worcester, Mass.
WHEELER, CHARLES CHILD (All
Sizes), 113 B'way, New York. (See adv.
index, end of book)

Williams, E. A. & Son, 105 Plymouth, Jersey
City, N. J.
Williams, John, 558 W 27th, New York
Youngstown Bronze Co., Youngstown, O.

Castings (Builders')

(See firms marked with a Star (*) in Iron,
Architectural & Ornamental; also Machin-
ists & Founders)

Castings (Carbon)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg. Chicago, Ill.

*Castings (Cement)

AMERICAN CONCRETE CO. (Plain &
Ornamental), 80 William, New York. (See
adv. index, end of book)

Castings (Chemical Works)

Bethlehem Foundry & Machine Co., South Beth-
lehem, Pa.
Buffalo Foundry & Machine Co., Buffalo, N. Y.
Caroline Iron Works, 723 S Caroline, Balti-
more, Md.
Co-Operative Foundry Co., Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Ferguson & Large Foundry Co., Clybourn av.
& Willow, Chicago, Ill.
Larrabee, H. C. & Co., Baltimore, Md.
LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)
MacKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)
Moore Bros. Co. (High Grade), Elizabeth, N. J.
Philadelphia Roll & Machine Co., S 23d &
Washington av, Philadelphia, Pa.
Riverside Foundry Co., 2021 Carter rd, N.
W., Cleveland, O.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Castings (Chrome Steel)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.
Chrome Steel Works (Crucible & Open Hearth),
Chrome, N. J.
Crucible Steel Casting Co., Lansdowne, Pa.
Mesta Machine Co., Lewis bldg, Pittsburg, Pa.
Taylor Iron & Steel Co., High Bridge, N. J.

Castings (Compressor)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.

Castings (Copper)

American Foundry & Mfg. Co., 11th & Heb-
ert, St. Louis, Mo.
Anderson, Albert & J. M. Mfg. Co., Boston,
Mass.
Babbitt, Chas. E., 440 Fore, Portland, Me.
Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
Bridgeport Deoxidized Bronze & Metal Co.,
Bridgeport, Conn.
Buckeye Brass Foundry, Cleveland, O.
City Brass Foundry Co., Cleveland, O.
Clum & Atkinson, Rochester, N. Y.
Connellsville Machine & Can Co., Connellsville,
Crown Smelting Co., Chester, Pa.
Dallas Brass Mfg. Works, Dallas, Tex.
DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works: Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)
Eastwood Wire Mfg. Co., Belleville, N. J.
Enterprise Brass Works, Muskegon, Mich.
Eureka Tempered Copper Works, North East,
Pa.
Eynon-Evans Mfg. Co., 1509 Clearfield, Phila-
delphia, Pa., & 32 B'way, New York
Forest City Electric Co., Cleveland, O.
Gilb, V. & Son, Birmingham, Ala.
GRISCOM-SPENCER CO., 90 West,
New York, & ft. Washington av, Phila-
delphia, Pa. (See adv. index & branch of-
fices, end of book)
Hamden Brass Co., Springfield, Mass.

Hardoin, Nicholas, 132 Larned, E. Detroit
Hendryx, Andrew B. Co., New Haven, Conn.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Jefferson Brass Foundry, 209 King, Brooklyn,
Jenkins Mfg. Co., Bloomfield, N. J. N. Y.
Johnson Service Co., Milwaukee, Wis.
Keystone Bronze Co., 38th & A. V. Ry.,
Pittsburg, Pa.

Kraushaar Brass Mfg. Co., St. Louis, Mo.
LAWRENCEVILLE BRONZE CO.
(Railroad, Machinery, etc.), 31st & Penn
av, Pittsburg, Pa. (See adv. index, end of
book)

Liberty Brass Works, 303 W. Lombard, Bal-
timore, Md.

LUMEN BEARING CO., Buffalo, N. Y.
(See adv. index, end of book)

McCartney, Josiah (Solid), Bay City, Mich.
Mansfield Tempered Copper Co., Mansfield, O.
Midland Brass Works, Ft. Worth, Tex.
Minneapolis Brass & Iron Mfg. Co., 116 1st av,
N Minneapolis, Minn.

National Aluminum Co., 153 Milk, Boston,
Ohio Brass Co., Mansfield, O. Mass.
Pevey Bros., Lowell, Mass.

Pittsburg Brass Mfg. Co., Penn av & 32d, Pitts-
burg, Pa.

Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Pa.

Richardson, Edro Brass Co., 318 N Holliday,
Baltimore, Md.

Rowell, W. G. Co., Bridgeport, Conn.

Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
ST. PAUL FOUNDRY CO., Como av. &
Mackubin, St. Paul, Minn. (See adv. in-
dex, end of book)

Sheeler-Hemsher Co., 811 Fairmount av, Phila.,
Shriver, T. & Co., Harrison, N. J.

Sterlingworth Railway Supply Co., North
American bldg, Philadelphia, Pa.; Works:
Easton, Pa.

Thacher, Geo. H. & Co., Albany, N. Y.

Toledo Brass & Novelty Works, Toledo, O.

Turner Brass Works, Sycamore, Ill.

TURNER & SEYMOUR MFG. CO., Tor-
rington, Conn. (See adv. index, end of
book)

Union Brass Foundry Co., Lowell, Mass.

Ward & Williams, Hancock, Mich.

Wells Chemical Bronze Works, Worcester, Mass.

West Side Foundry Co. (Watervliet), Troy,
N. Y.

WHEELER, CHARLES CHILD, 113
B'way, New York. (See adv. index, end
of book)

Williams, E. A. & Son, 105 Plymouth, Jersey
City, N. J.

Castings (Crucible Steel)

(See firms in Castings, Steel, with the word
Crucible following their names)

Castings (Die Cast)

Franklin, H. H. Mfg. Co., Syracuse, N. Y.

Castings (Dredge)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.
Detroit Steel Casting Co. (Steel), Detroit, Mich.

ELLICOTT MACHINE CO., Bush &
Seymour, Baltimore, Md. (See adv. index,
end of book)

Penna. Steel Co., Girard bldg, Phila., Pa.

Castings (Electrical)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.
Bonney-Floyd Co. (Steel), Columbus, O.

Bryigon Steel Casting Co. (Manganese Steel),
New Castle, Del.

Chester Steel Casting Co., Chester, Pa., & 407
Sansom, Phila., Pa.

Chicago Steel Foundry Co. (Magnetic Steel),
Rookery Bldg., Chicago, Ill.

Davies & Thomas Co., Catasauqua, Pa.

Drummond, M. J. & Co., 182 B'way, New York

Federal Steel Foundry Co. (Open Hearth
Steel), Chester, Pa.

Hayes Foundry Co., Lynn, Mass.

Johnson, Isaac. G. & Co. (Open Hearth Steel),
Spuytgen Duyvil, New York, N. Y.

Jones, W. A. Foundry & Machine Co., 143 W
North av, Chicago, Ill.

Pittsburg Steel Foundry (Open Hearth Steel),
Pittsburg, Pa.

Prescott Co. (Open Hearth Steel), McDon-
nee, Mich.

Castings ("Franklin" Metal)

Franklin, H. H. Mfg. Co. (Finished Castings),
Syracuse, N. Y.

*Castings (Gas Engine)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.

CHISHOLM & MOORE MFG. CO., 49th &
Lake, Cleveland, O. (See adv. index, end
of book)

MACKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)

Castings (Gas & Water)

(See Cast Iron Pipe Manufacturers, Gas & Wa-
ter; also Gas Works Apparatus & Construc-
tion)

Castings (German Silver)

Chambers & Ainslee, Newark, N. J.

Jenkins Mfg. Co., Bloomfield, N. J.

Riverside Metal Co., Riverside, N. J.

Castings (Glass Furnace)

Dixon, H. L. Co., Pittsburg, Pa.

Castings (Grey Iron)

(This List is duplicated under Machinists &
Founders; see also Castings, Malleable Iron)

ALABAMA.

NORTH BIRMINGHAM—Birmingham Novelty
Works (Light)

CALIFORNIA.

CHICO—Diamond Match Co. (Engineer's Dep't)

LOS ANGELES—Llewellyn Iron Wrks

Los Angeles Stove Co.

McCan Mechanical Works

Washington Iron Works

REDDING—Redding Iron Works

STOCKTON—Stockton Iron Works

Samson Iron Works (Inc.)

SAN FRANCISCO—Graham, Jas. Mfg. Co.
(Light), 27 Minna

CONNECTICUT.

ANSONIA—Farrel Foundry & Machine Co.

BRIDGEPORT—Bridgeport Malleable Iron Co.

Eaton, Cole & Burnham Co. (Refined)

Parsons, R. E. Co.

Pequonnock Foundry (Light & Medium)

BRISTOL—Sessions Foundry Co. (Small & Large
to order)

DERBY—Birmingham Iron Foundry (Heavy)

GUILFORD—Spencer's, I. S. Sons

HARTFORD—Capitol Foundry Co.

Hartford Foundry Corp.

Laragy, P.

Pratt & Cady Co.

MIDDLETOWN—Wilcox, Crittenden & Co.

NEW BRITAIN—Malleable Iron Works

Union Mfg. Co. (Light)

Vulcan Iron Works (Malleable)

NEW HAVEN—Barnum, S. H.

McLagan Foundry Co. (All Weights)

New Haven Foundry Co.

North, O. B. & Co. (Malleable)

Warner, G. F. Mfg. Co.

NEW LONDON—Hopson & Chapin Mfg. Co.

New London Marine Iron Works

NORWALK—Arnold Co., The

Meeker's Union Foundry

NORWICH—Vaughn Foundry Co.

ROCKY HILL—Champion Mfg. Co.

SHELTON—Meyer, Fred'k (Small Castings a
Specialty)

SOUTH NORWALK—Colonial Foundry & Ma-
chinery Co.

Norwalk Iron Works Co.

Wheeler Bros.

STAMFORD—Stamford Iron & Brass Foundry

TORRINGTON—TURNER & SEYMOUR
Mfg. Co. (Small). (See adv. index, end
of book)

UNION CITY—Metal Finishing Co. (Small)

WATERBURY—Manufacturers' Foundry Co.
(Cylinder)

Waterbury Castings Co. (Malleable)

Waterbury Foundry Co. (Low & Medium
Grade Castings)

WINSTED—Moore, Franklin Co. (Light)

DELAWARE.

WILMINGTON—Harlan & Hollingsworth Cor-
poration (Rough & Finished)

Hilles & Jones Co. (Up to 75 tons)

Edgemoor Iron Co.

GEORGIA.

ATLANTA—American Brake Shoe & Fdry Co.

Atlanta Machine Works, 1 King

Fulton Foundry & Machine Works

Withers Foundry & Machine Works

CORDELE—Tomlin-Harris Machine Co.

SAVANNAH—Kehoe, Wm. & Sons

ILLINOIS.

AURORA—Aurora Foundry Co. (Machine Pui-
Love Bros. (Inc.) iey Castings, etc.)

CHAMPAIGN—Burr, E. M., & Co.

CHICAGO—American Brake Shoe & Foundry
Co., Western Union bldg

American Building Foundry Co., 497 W 22d

Brady, Jas. A. Foundry Co. (High Grade
Machinery Castings), 35th & Ashland av

Eddy, R. M. Foundry Co. (Boiler & Ma-
chinery, Castings, Grate Bars, etc.), 59
Indiana

Featherstone Foundry & Machine Co. (For
Railroad Use), 303 Railway Ex.

Ferguson & Lange Foundry Co. (1 lb. to
50 tons), Clybourn av. & Willow

Green Engineering Co., Commercial Nat'l
Bank hldg

Illinois Malleable Iron Co., 515 Diversey
boul, Chicago, Ill.

MARINE ENGINE & MACHINE CO.
(100 lbs. to 40,000 lbs.), Marquette hldg.

(See adv. index, end of book)

MONIGHAN MACHINE CO. (Light
& Heavy), 813 Carroll av, Chicago, Ill.

(See adv. index, end of book)

Reedy Foundry Co., 91 Illinois

SMITH, F. P. WIRE & IRON
Works (Specialty, Ornamental Building
Castings), 100 Lake. (See adv. index,
end of book)

Tarrant Foundry Co. (Light & Heavy), 46
Indiana

Western Foundry Co. (Light Grey), 3654 S
Kedzie av

CHICAGO HEIGHTS—American Brake Shoe
& Foundry Co.

DECATUR—Oakes, Wm. L.

FRANKLIN PARK—Forster, Waterbury & Co.

FREEPORT—Arcade Mfg. Co. (Light)

Freeport Windmill & Gas Engine Co.
(Light & Heavy)

Stover Mfg. Co. (Light)

KANKAKEE—Kankakee Mfg. Co.

LITCHFIELD—Litchfield Foundry & Machine

MORRIS—Nickel Mfg. Co. (Small) Co.

NORTH CHICAGO—Chicago Hardware Foun-
dry Co. (Best Light Gray)

PEORIA—Excelsior Foundry Co.

QUINCY—Central Iron Works

ROCK ISLAND—Rock Island Tool Co.

STERLING—Sterling Foundry Co.

WEST CHICAGO—American Heater Mfg. Co.
(Soft & Strong)

INDIANA.

COLUMBUS—Caldwell & Drake Iron Works
(Inc.) (Machinery Castings a Specialty).

EAST CHICAGO—Davison Foundry Co. (Light
& Heavy)

EVANSVILLE—Indiana Stove Works

FORT WAYNE—Bass Foundry & Machine Co.

INDIANAPOLIS—Enterprise Foundry & Fence

Indianapolis Foundry Co. (Light) Co.

McNamara-Koster Foundry Co. (Light &
Heavy), 408 S Penn

National Malleable Castings Co.

Over, Ewald, 426 S Penn

LAFAYETTE—Wallace Machine & Foundry

MARION—Marion Grey Iron Foundry Co. Co.

MICHIGAN CITY—Haskell & Barker Car Co.

MUNCIE—Muncie Foundry & Machine Co.

SOUTH BEND—Meyer Foundry & Mfg. Co.

South Bend Foundry Co.

TERRE HAUTE—Gartland Foundry Co.

IOWA.

DAVENPORT—Davenport Machine & Foun-
dry Co.

Killing, E., Moulding Machine Works

MUSCATINE—Niver Iron Works Co. (Light &
Heavy, for All Purposes)

CASTINGS

STEEL
BRASS
BRONZE

GREY IRON
MACHINERY
MALLEABLE IRON

CASTINGS

CHARLES CHILD WHEELER, Dept. "C" 111 BROADWAY, NEW YORK, N. Y.

MARYLAND.

BALTIMORE—Baltimore Foundry Co., Bush cor. Severn
Baltimore Malleable Iron & Steel Casting Co. (Soft), c Charles & Wells
Bate's, James Sons, Pratt & President
Carr, S. R. & Co., Essex st and Montford av
Chesapeake Iron Works, Bayard & Severn
De Ved & Sons Sash Weight Co. (All Kinds), 813 S. Howard
ELLICOTT MACHINE CO., Bush & Severn. (See adv. index, end of book)
Lacy, Jas. J. & Co., 1401 Block
Larrabee, H. C. & Co., 723 S. Caroline
Montford Machine Casting Co., Montford av nr Chase

MASSACHUSETTS.

ATHOL—Athol Machine Co.
BOSTON—Gibby Foundry Co., 96 Condor, E. B.
Laconia Car Co. Works, 100 Boylston
Smith & Lovett Co., 125 Albany
CHICOPEE—Ames Foundries (A. G. Spaulding & Bro. Mfg. Co.)
EASTON—Belcher Malleable Iron Co.
FALL RIVER—Fall River Foundry & Machine Co.
FITCHBURG—Goodnow, L. H. Foundry Co.
Perault, Moses, J.
GARDNER—Gardner General Foundry Co.
LOWELL—Doherty Bros.
SPRINGFIELD—Bausch Machine Tool Co.
Hawkins, R. F. Iron Works
Walsh Boiler & Iron Works
WALTHAM—Waltham Foundry Co.
WORCESTER—Pond, L. W. Machine & Foundry Co.

MICHIGAN.

ADRIAN—Kell's Foundry & Machine Co.
RAY CITY—**MACKINNON BOILER & MACHINE CO.** (Up to 30,000 lbs.) (See adv. index, end of book)
DETROIT—Acme Foundry Co., Isabella av bel. Michigan av
Buhl Malleable Co., Wight & Adair
Cadillac Motor Car Co. (Fine)
Detroit Ship Building Co.
Detroit Stoker & Foundry Co. (Light & Heavy), N. Grand Boulevard & Riopelle
RUSSEL WHEEL & FOUNDRY CO. (See adv. index, end of book)
Standard Foundry Co., 22 Chene
Union Foundry Co., 24 Widman pl
Western Malleable Steel Co.
GRAND RAPIDS—Hartmann, H. J. Foundry
GRAND HAVEN—Drake Engine Co. Co.
JACKSON—Holton & Weatherwax Co., Ltd.
LANSING—Capitol Casting Co.
Michigan Brass & Iron Works
MENOMINEE—Prescott Co. (Small & Large)
SAGINAW—Bartlett, A. F. & Co.
YPSILANTI—Michigan Machinery Mfg. Co.

MINNESOTA.

DULUTH—Marine Iron Co.
MINNEAPOLIS—Crown Iron Works Co.
KILGORE - PETELER CO. (See adv. index, end of book)
MINNEAPOLIS STEEL & MACHINERY CO. (Heavy). (See adv. index, end of book)
Northwestern Foundry (Inc.) book)
Standard Foundry & Machine Co.
ST. PAUL—Buckeye Foundry, Starkey & Fairfield av
St. Paul Foundry Co.
Valley Iron Works.
Western Iron Works (Soft Grey), Penn av & Rice
ST. PETER—Bornemann, Adolph.
SOUTH STILLWATER—Western Foundry & Machine Works
STILLWATER—Jesse, August.

MISSOURI.

KANSAS CITY—Security Stove & Mfg. Co.
KIRKWOOD—Natural Power Co.
ST. LOUIS—American Brake Shoe & Fdry Co.
American Car & Foundry Co., 615 Olive
American Foundry & Mfg. Co. (Small). Hebert & 11th R'y
Banner Iron Works, Shaw av & Oak Hill
Curtis & Mfg. Co., Wellston Station
Kingsland-Kay-Cook Mfg. Co., Mullanphy, 11th to 12th

St. Louis Malleable Casting Co.
Union Iron & Foundry Co., 1452 S. 2d.
Western Foundry & Sash Weight Co. (Light & Novelty), 159 Miller Herbert

SPRINGFIELD—United Iron Works Co. (From 1-4 to 15,000 lbs.)
WEBB CITY—Webb City & Carthage Foundry & Machine Works

MONTANA.

BUTTE—Montana Iron Works.

NEW HAMPSHIRE.

LACONIA—Laconia Car Co. Works (of Boston, Mass.)
LANCASTER—Thompson Mfg. Co.
NASHUA—White Mountain Freezer Co. (Light & Heavy to Order)

NEW JERSEY.

BELLEVILLE—Eastwood Wire Mfg. Co.
EAST NEWARK—Hewitt, Jno. Foundry Co.
ELIZABETH—Moore Bros. Co. (High Grade). Moore, Sam'l L. & Sons Corp'n
ELIZABETHPORT—**BROWN, A. & F. CO.** (See adv. index, end of book)
GRENLOCH—Bateman Mfg. Co. (Light, in quantities)
HARRISON—**MARINE ENGINE & MACHINE CO.** (100 lbs. to 40,000 lbs.) (See adv. index, end of book)
Shriver, T. & Co.
HOBOKEN—Focht's, Geo. Sons
JERSEY CITY—**GRISCOM-SPENCER CO.** Grand & Sussex. (See adv. index, end of book)
MAHWAH—American Brake Shoe & Fdry Co.
NEWARK—Barlow Foundry Co. (Soft Grey Iron a Specialty)
Hewes & Phillips Iron Works (Heavy)
Meeker Foundry Co.
Sacks, Louis, Iron Foundry. (Star Heel Plate Co.), Hamburg pl & Av L
Traud, Alexander Co., 5 Malne
NEW BRUNSWICK—Empire Foundry Co. (1 oz. to 5 ton)
PHILLIPSBURG—Firth, Roland & Son
TRENTON—McFarland Foundry & Machine Works
Thropp, John E. Sons Co.

NEW YORK.

ALBANY—Hartnett, John J.
Thacher, Geo. H. & Co.
Townsend Furnace & Machine Shop Co.
BALLSTON SPA—Davidson-Namack Foundry Co.
BUFFALO—American Brake Shoe & Fdry Co.
Buffalo Co-op. Stove Co., Amherst & Tonawanda
Buffalo Foundry & Machine Co. (Up to 200 Tons)
Farrar & Trefts
Frontier Iron Works, 2 Auburn Av.
Howard Iron Works, Chicago & Granger.
Lake Erie Engineering Works (Up to 50 Tons)
Lawler Iron Works, 67 Mississippi
Standard Foundry Co., 48 Lakeview av
Trout, H. G. & Co., 226 Ohio
Washington Iron Works, 419 Pratt
CAMBRIDGE—Lovejoy Co.
CANASTOTA—Patten & Stafford Co. (Light & Medium)
COHOES—**COHOES IRON FOUNDRY & MACHINE CO.** (See adv. index, end of book)
CORNING—Allen, E. R. Foundry Co. (Medium & Heavy)
COXSACKIE—Newbury, J. G.
ELMIRA—Elmira Heater & Foundry Co. (Light & Heavy)
FAYETTEVILLE—Crouch, Wm. N. (Small)
GOSHEN—Newbury, Jay H.
GOWANDA—Gowanda Agricultural Works.
GREEN ISLAND—Sweet & Doyle Valve Co.
HORSEHEADS—Weller Hardware & Foundry Co.
MANLIUS—Cheney, S & Sons (Small)
MASSENA—Raquette Foundry & Supply Co.
MIDDLETOWN—Coleman, Galen
MONROE—Newbury Mfg. Co. (For Steam Fittings, etc.)
NEWBURGH—**ABENDROTH & ROOT MFG. CO.** (See adv. index, end of book)
Marvel, T. S. Shipbuilding Co.
Newburgh Ice Machine & Engine Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN-BLISS, E. W. CO., 19 Adams. (See adv. index, end of book)
Burr & Houston Co., 84 Calyer. (Light)
Columbia Machine Works & Malleable Iron Co., 259 Chestnut
Holdsworth Foundry Co.
Pirkel, John Iron Works (Inc.) (Ornamental), 240 N 10th
Taylor & Co., Morgan & Norman avs.

Boroughs of Manhattan & Bronx.

NEW YORK-ABENDROTH & ROOT Mfg. Co., Fulton bldg. (See adv. index, end of book)
American Brake Shoe & Fdry Co., Hudson Terminal bldg
American Bridge Co., 30 Church
American Car & Foundry Co., 165 B'way
Bethlehem Steel Co., 111 B'way
BROWN, A. & F. CO., 25 Dey. (See adv. index, end of book)
Crane, W. M. Co., 16 W 32d
Eaton, Cole & Burnham Co. (Founders & Finishers), 490 Cherry. Works: Bridgeport, Conn.
G. & W. MFG. CO., 26 Cortlandt. (See adv. index, end of book)
GRISCOM-SPENCER CO., 90 West. (See adv. index, end of book)
Hardware & Woodenware Mfg. Co. (Small), 826 B'way
MARINE ENGINE & MACHINE CO. (100 lbs. to 40,000 lbs.), 230 W 13th (See adv. index, end of book)
Mietz, August A., 128 Mott.
Treadwell, M. H. Co. (10 to 50,000 lbs.), 90 West
United States Cast Iron Pipe & Foundry Co. (Heavy), 71 B'way
Universal Caster & Foundry Co. (Small & Medium), 1170 B'way
WHEELER, CHARLES CHILD (All Sizes), 113 B'way, New York. (See adv. index, end of book)

(End of New York City)

PEEKSKILL—Crane, Wm. M. Co.
ROCHESTER—Eureka Foundry Co.
Jones, J. Emory (Est. of)
SANDY HILL—Sandy Hill Iron & Brass Works.
SYRACUSE—Alexander Iron Works.
Empire Foundry Co.
General Foundry & Machine Co.
Smith & Caffrey (Prop's) (Phoenix-Porter Foundry)
Stearns, E. C. & Co.
Straight Line Engine Co. (Loam or Green Sand to 20,000 lbs.)
TROY—Marshall Foundry (James W. Hislop, Prop.)
Neemes Bros. (Heavy)
Reynolds, Chalou Foundry Co.
Reynolds, G. W. H. Foundry Co.
West Slide Foundry Co. (Plain & Machined, Light & Heavy), Watervliet
UTICA—Munson Bros Co.
Utica Steam Engine & Boiler Works (Semi-Steel)

NORTH CAROLINA.

RALEIGH—Raleigh Iron Works Co.

NORTH DAKOTA.

FARGO—Fargo Foundry Co.

OHIO.

AKRON—Akron Foundry Co.
Nute, T. C. Foundry Co.
Taplin-Rice-Clerk Co.
BOWLING GREEN—Thornburgh Mfg. Co. (Light & Heavy)
CANTON—Alliance Foundry Co. (Light & Heavy, up to 15 Tons)
American Roll & Foundry Co.
American Sheet & Tin Plate Co., Roll & Machine Works. (Up to 20 tons)
CANTON FOUNDRY & MACHINE CO. (Light & Heavy) (See adv index, end of book)
Novelty Iron Co.
Stark Foundry Co.

CINCINNATI—Bollman-Wilson Foundry Co., 500 E Front
Bruce, John J., Foundry Co., 2419 Cole-
rain av.
Buckeye Foundry Co., 2257 Buck
Erhart, Chris., 1237 W 6th
Eureka Foundry Co., 1110 Richmond
Haney & Spieker (All Kinds), 125 W. 2d.
Haven Malleable Castings Co., Dane &
Knowlton
Knecht, Victor Co. (Light & Heavy), 819
Wade
Lane & Bodley Co., Paddock rd & Ross av
Morris, John B. Foundry Co., Court & Har-
riett
Mowry Car Wheel Works Co. (For Ma-
chinery, etc.), 2401 Eastern av
Oberhelman, J. A. Foundry Co., Harrison
av & Buck
Queen City Foundry Co. (All Kinds of Cast-
ings), Spring Grove av. & Alabama av.
Tatum, Samuel C. Co. (Fine Castings)
Vulcan Foundry Co., The, 3300 Western av
& Medium)
CLEVELAND—Acme Foundry Co. (Fine, Light
& Medium)
American Range & Foundry Co. (Light),
7000 Union av, S E
Bowler Foundry Co.
Browning Engineering Co.
Bruce-Macbeth Engine Co.
CLEVELAND PUNCH & SHEAR
Works Co. (See adv. index, end of
book)
Ferro Machine & Foundry Co., Wade Bldg.
Forest City Foundry & Mfg. Co. (Small)
Fulton Foundry Co. (All Kinds), 1209 Mar-
quette, N E
Grabier Mfg. Co. (1 ounce to 100 lbs.)
Interstate Foundry Co., E. 61st & Erie R. R.
Johnston & Jennings Co., Cleveland, O.
Madison Foundry Co. (Light & Heavy),
935 Addison rd, N E
Ohio Foundry Co. (Light & Heavy)
Palmer & De Mooy Foundry Co. (Light a
Specialty)
Riverside Foundry Co., 2021 Carter rd,
N W
Standard Foundry & Mfg. Co. (Light Cast-
ings & Hardware Specialties)
Taylor & Boggis Foundry Co. (Light), 1913
W 3d, S W
Variety Iron & Steel Works Co. (Heavy)
Walworth Run Foundry Co., 2488 W 27th,
S W
COLUMBUS—McDonald Bros.
DAYTON—Buckeye Iron & Brass Works.
Eureka Casting & Machine Co.
Maumee Foundry Co. (1/4 lb. to 2 tons)
Seybold Foundry Co.
FINDLAY—Findlay Foundry & Machine Co.
HAMILTON—Central Foundry Co. (Machine
Molded Pulley Castings, etc.)
Hamilton Foundry & Machine Co.
Hooven, Owens, Rentschler Co. (Heavy &
Machinery)
Miami Foundry Co. (Light & Medium)
Peerless Foundry Co. (Light)
LEIPSI—American Foundry Co.
LORAIN—Lorain Machine & Forge Co.
MARIETTA—Pattin Bros. Co.
MASSILLON—Hess-Snyder Co.
Massillon Foundry & Machine Co.
Russell Engine Co.
MOUNT VERNON—Cooper, C. & G. Co., The
(Up to 6 Tons)
NORWALK—Norwalk Iron & Brass Foundry Co.
PORTSMOUTH—Portsmouth Steel Co. (Office,
Wheeling, W. Va.)
RIPLEY—Danbery Foundry Co.
SHELBY—Shelby Foundry Co. (Light & Heavy)
SPRINGFIELD—Fairbanks Co.
Gray Iron Casting Co.
Hennessy Foundry Co.
Robbins & Meyers Co. (Light & Medium)
TOLEDO—Donovan Wire & Iron Co.
Ricard Boiler & Engine Co.
Toledo Foundry & Machine Co.
Toledo Ship Building Co.
WARREN—Trumbull Mfg. Co.
WELLSVILLE—Menough Foundry Co. (Light
& Heavy)
WESTERVILLE—Hance, J. W. Foundry Co.
YOUNGSTOWN—Youngstown Bronze & Iron
Co. (Small)
Youngstown Car Mfg. Co. (Medium Weight)
Youngstown Foundry & Machine Co. (Heavy,
for Rolling Mills, etc.)

PENNSYLVANIA.

ALLEGHENY—Monongahela Casting Co.
Pennsylvania Casting & Machine Co.
ALLENTOWN—Dangherty Foundry Co. (Light
& Heavy)
ALTOONA—Altoona Fdry. & Mach. Co.
AVONMORE—Keystone Steel Foundry Co.

BIRDSBORO—Birdsboro Steel Foundry & Ma-
chine Co.
BLOOMSBURG—Richard Mfg. Co.
BURNHAM—Standard Steel Works Co. (See
Phila.)
BUTLER—Butler Engine & Foundry Co.
CHAMBERSBURG—Chambersburg Engineer-
ing Co. (Up to 100 tons)
COATESVILLE—Coatesville Foundry & Ma-
chine Co. (Light & Heavy)
COLUMBIA—Columbia Grey Iron Co. (Light)
DANVILLE—Danville Foundry & Machine Co.
(Up to 40,000 lbs.)
DUBOIS—Dubois Iron Works.
EASTON—Easton Foundry & Machine Co.
ELLWOOD CITY—Standard Engineering Co.
(Up to 25 Tons)
ERIE—Ball Engine Co. (Up to 20 Tons)
Cascade Foundry Co.
Erie Engine Works
Erie Foundry Co.
Morse Iron Works
National Foundry Co.
Walker Foundry Co.
FORD CITY—Fischer Foundry & Machine
Co. (Light & Heavy)
FREEMANSBURG—Shimer, Wm. Sons & Co.
FULLERTON—Lehigh Foundry Co. (Up to 50
Tons, Rough or Machined)
GROVE CITY—Bessemer Foundry Co.
HANOVER—Heindel Mfg. Co. (One lb. to 20
Tons)
HARRISBURG—Harrisburg Foundry & Machine
Works
HOLLIDAYSBURG—McLanahan-Stone Ma-
chine Co.
JOHNSTOWN—Globe Iron & Foundry Co.
Lorain Steel Co. (Specialty R. R. Castings)
Suppes Forge & Foundry Co.
LANCASTER—Blickendefer, Richard.
Hubley Mfg. Co. (Light Finished in Any
Manner)
LANSDALE—Heebner & Sons
LEBANON—North Lebanon Foundry Co. (Up
to 5 Tons)
Treadwell, M. H. Co. of Pennsylvania (10
to 50,000 lbs.)
McKEES ROCKS—Taylor-Wilson Mfg. Co.
MEADVILLE—Phoenix Iron Works Co.
MONONGAHELA—Monongahela Castings Co.
MOUNT JOY—Grey Iron Casting Co.
NAZARETH—Nazareth Foundry & Mach. Co.
NEW CASTLE—Douds, F. C. & Co.
NORRISTOWN—Wildman Mfg. Co. (Light)
PHILADELPHIA—Bernstein Mfg. Co., 3d &
Brill, J. G. Co. Allegheny av
Creswell, Sam J. Iron Works, 23d cor.
Cherry
Flagg, Stanley G., & Co.
GRISCOM-SPENCER CO., ft. Wash-
ington av. (See adv. index, end of book)
KUTZTOWN FOUNDRY & MA-
chine Co., 116 N Broad. (See adv. in-
dex, end of book)
Lorain Steel Co., Penna. bldg
Meerbach & Schneider, 1612 Vandike
F'k'd
Morris, I. P. Co. (Up to 50 Tons), Beach
Ball
North Bros. Mfg. Co., Lehigh av. and Ameri-
can
Philadelphia Hardware & Malleable Iron
Works (Inc.) (Soft), 9th & Jefferson
Philadelphia Stove & Iron Foundry Co., 1625
N 5th
Sheppard, Isaac A. & Co., 4th & Montgomery
av
Tioga Foundry Co. (Machinery & Railroad
etc.), 22d & Allegheny av
Standard Steel Works Co., Harrison bldg.
Works: Burnham, Pa.
Wharton, Wm. Jr., & Co. (Inc.), 25th &
Washington av
Wood, R. D., & Co., 400 Chestnut
PITTSBURG—American Bridge Co.
Best Mfg. Co., 25th & A. V. R'y
Hydraulic Machine Co., North Side
Machintosh, Hempbell & Co.
Marshall Foundry Co., 28th & A. V. R. R.
Mesta Machine Co., Lewis bldg
Phoenix Steel Co., Inc., Putnam & P. R. R.
Pittsburg Mfg. Co., 28th & Railroad.
PITTSBURGH VALVE FOUNDRY &
Construction Co., 26th & A. V. R'y. (See
adv. index, end of book)
Sterritt-Thomas Foundry Co., 32d &
Smallman, Pittsburg, Pa.
Union Foundry & Machine Co.
United Engineering & Foundry Co., Farm-
ers' Bank bldg
Velte Foundry & Machine Co. (For Ma-
chinery, Gas Engines, etc.), North Side
Wharton, Wm., Jr., & Co., 25th & Wash-
ington, Phila., Pa.
YAGLE FOUNDRY & MACHINE
Co. (Ltd.) (Heavy), 400 32d. (See adv.
index, end of book)

POTTSTOWN—Keystone Foundry Co.
READING—Gray Iron Foundry Co.
Rooper-Kiucald Mfg. Co. (Machinery Cast-
ings, etc.)
SCRANTON—Barker, S. G. & Son.
SLATINGTON—Slatington Foundry, Machine &
Boiler Works
SOUTH BETHLEHEM—Bethlehem Steel Co.
TATAMY—Messinger Mfg. Co.
TYRONE—Burley Heater Co.
WARREN—Allegheny Foundry Co. (For All
Purposes)
WEATHERLY—Weatherly Foundry & Ma-
chine Co. (Railroad, etc.)
WILKES-BARRE—Vulcan Iron Works
WILLIAMSPORT—National Foundry Mfg. &
Supply Co.
National Foundry Mfg. & Supply Co.
WRIGHTSVILLE—Susquehanna Casting Co.
YORK—Eyster, Weiser & Co. (Ltd.) (Light)
Penna. Foundry Co.

RHODE ISLAND.

HILLS' GROVE—Rhode Island Malleable Iron
PAWTUCKET—Pawtucket Fdry. Co. Works
PROVIDENCE—American Ship Windlass Co.
Brown & Sharpe Mfg. Co. (Motor Cylinder,
etc.)
Builders' Iron Foundry (Heavy, for Water
Works, Pipe Fittings, etc.)
Carpenter, A. & Sons Foundry Co.
Colvin Foundry Co. (All Kinds)
D & W FUSE CO. (See adv. in-
dex, end of book)
Franklin Machine Co. (1 oz. to 5 ton).
RIVER POINT—Brayton L. Foundry Co.
VALLEY FALLS—Valley Falls Iron Foundry.

SOUTH CAROLINA.

CHARLESTON—Charleston Iron Works
Riley, John F. Foundry & Machine Works

TENNESSEE.

CHATTANOOGA—American Brake Shoe &
Lookout Boiler & Mfg. Co. Fdry Co.
Ross-Meehan Foundry Co.
Southern Skein & Foundry Co., Chatta-
nooga, Tenn.

TEXAS.

EL PASO—El Paso Foundry & Machine Co.

VIRGINIA.

CLIFTON FORGE—Clifton Forge Machine
& Foundry Co.
LYNCHBURG—Lynchburg Foundry Co. (Me-
dium & Heavy)
RICHMOND—Cameron Stove Co.
Carr, Jas. W. (All of Special)
Richmond Foundry & Mfg. Co. (Fine, Soft,
Light, Plain or Machined)

WASHINGTON.

SEATTLE—Olympic Foundry Co. (Light &
Pacific Iron & Steel Works Heavy), Argo
Variety Iron Works (Light & Heavy)
Vulcan Iron Works
SPOKANE—National Iron Works.
Union Iron Works

WEST VIRGINIA.

FAIRMONT—Fairmont Mining Machinery Co.
(Soft Castings)
PARKERSBURG—Stiles Foundry & Supply Co.
WHEELING—Portsmouth Steel Co. Works:
Portsmouth, O.
Wheeling Mold & Foundry Co.

WISCONSIN.

CUDAHY—Power & Mining Machinery Co.
MILWAUKEE—Chain Belt Co.
Milwaukee Malleable & Grey Iron Works,
24th av
Nortmann-Duffke Foundry Co., Layton c
Schwab, R. J. & Sons Co., 26th av
VILTER MFG. CO., 1046 Clinton.
(See adv. index, end of book)
Western Malleable & Grey Iron Mfg. Co.
(Light Grey Iron & Machinery), 139 Bur-
rell
RACINE—American Skein & Foundry Co.
Holbrook, Armstrong Iron Co. (Light &
Heavy)
SOUTH MILWAUKEE—Stowell Mfg. & Foundry
Co.
WEST BEND—Gehl Bros. Mfg. Co. (Up to 2000
lbs.)

Castings (Gun Metal)

American Valve & Meter Co., Cincinnati, O.
Belcher Malleable Iron Co., Easton, Mass.
Best Mfg. Co., 25th & A. V. R'y, Pittsburgh, Pa.
Builders' Iron Foundry, Providence, R. I.
Chapman, J. B. & Co., Springfield, Mass.
Crown Smelting Co., Chester, Pa.
Eureka Tempered Copper Works, North East, Pa.

Fewlass, Leen Brass & Iron Co., Cincinnati, O.
GRISCOM-SPENCER CO., 90 West,
New York, & ft. Washington av. Philadelphia, Pa. (See adv. index & branch offices, end of book)

Hunt-Spiller Mfg. Corp., ("Hunt-Spiller" Gun Iron), Boston, Mass.

Leslie Co., Inc., Lynchhurst, N. J.
LUNKENHEIMER CO., General Of-
fices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Phila. Roll & Machine Co., S 23d & Washington av., Phila., Pa.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Reeves, Paul S. & Son, 1413 Catharine, Phila., Pa.
Rowell, W. G. & Co., Bridgeport, Conn.

Shriver, T. & Co., Harrison, N. J.
Swoop, Julian M., 913 Girod, New Orleans, La.
Van Duzen, E. W. Co., 428 E 2d, Cincinnati, O.

Vulcan Iron Works, Wilkes-Barre, Pa.
Watworth Mfg. Co., 132 Federal, Boston, Mass.

WHEELER, CHARLES CHILD, 113
B'way, New York. (See adv. index, end of book)

Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.
York Mfg. Co., York, Pa.

Castings (Hatfield Steel)

(See firms in Castings, Steel, with the word Hatfield following their names)

Castings (Lead)

American Tool & Machine Co., 109 Beach, Boston, Mass.

Crane, W. W. Foundry & Machine Works, Auburn, N. Y.

Kindred & Taylor, 29 Jackson, Worcester, Mass.
Liberty Brass Works, 303 W. Lombard, Baltimore, Md.

Raquette Foundry & Supply Co., Potsdam, N. Y.

Reeves, Paul S., & Son, 1415 Catherine st., Phila., Pa.
Turner Brass Works, Sycamore, Ill.

Wells Chemical Bronze Works, 219 Summer, Worcester, Mass.

*Castings (Lumen Bronze)

LUMEN BEARING CO., Buffalo, N. Y.
(See adv. index, end of book)

*Castings (Machinery)

(See also Castings, Malleable Iron; also Castings, Aluminum; Castings, Brass; Castings, Bronze; Castings, Copper; Castings, Grey Iron; Castings, Gun Metal; Castings, Manganese Bronze; Castings, Marine; Castings, Phosphor Bronze; Castings, Semi-Steel; Castings, Steel; also Machinists & Founders)

American Brake Shoe & Foundry Co. (Iron & Steel Car & Locomotive), Mahwah, N. J., & Western Union bldg, Chicago, Ill.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

GRISCOM-SPENCER CO., 90 West,
New York, & ft. Washington av. Philadelphia, Pa. (See adv. index & branch offices, end of book)

MARINE ENGINE & MACHINE CO.,
(100 to 40,000 lbs.), Main Office: 230 W 13th, New York; Works: Harrison, N. J. (See adv. index & branch offices, end of book)

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

MONIGHAN MACHINE CO., 813 Car-
roll av., Chicago, Ill. (See adv. index, end of book)

WHEELER, CHARLES CHILD (All Sizes),
113 B'way, New York. (See adv. index, end of book)

YAGLE FOUNDRY & MACHINE CO.,
(Ltd.), 400 32d, Pittsburgh, Pa. (See adv. index, end of book)

Castings (Malleable Iron)

ALABAMA.

ANNISTON—Western Steel Car & Foundry Co.
(of Chicago)

CONNECTICUT.

BRANFORD—Hammer & Co. (Hardware Spe-
cialties, etc.)

Malleable Iron Fittings Co. (Air Furnace Re-
(Refined)

BRIDGEPORT—Bridgeport Malleable Iron Co.
Eaton, Cole & Burnham Co. (Refined)

MIDDLETOWN—Wilcox, Crittenden & Co.
(Small, to Order)

MOUNT CARMEL—Woodruff, Walter W. & Son
Co. (Carriage & Miscellaneous)

NAUGATUCK—Naugatuck Malleable Iron Co.
(All Kinds)

NEW BRITAIN—Malleable Iron Works (Iron
Castings to Order)

Vulcan Iron Works (All Kinds)

NEW HAVEN—Fitch, W. & E. T. Co. (Small to
North. A. B. Co. Order)

TERRYVILLE—Terry, Andrew Co. (Keys, Hinges
& Small)

DELAWARE.

WILMINGTON—Wilmington Malleable Iron Co.

ILLINOIS.

BRADLEY—Bradley, David Mfg. Co.

CANTON—Parlin & Orendorff Co.

CHICAGO—Chicago Malleable Castings Co.
(Refined Castings), 120th & Centre av

Chicago Malleable Iron Co., Blue Island &
Western avs

Crane Co. (Gas, Steam & Water Fittings),
10 N Jefferson

Gould Coupler Co., The Rookery

Illinois Malleable Iron Co. (Pipe, Fittings,
& General), 537 Diversey boul

International Harvester Co. of America
(Product All Consumed by the Company)

National Malleable Castings Co. (Railroad,
etc.), W 26th & Blue Island av

Pratt, Wm. E. Mfg. Co., 91 Lake

Western Steel Car & Foundry Co. (Castings,
All Consumed by the Company), Old Col-
ony bldg, Works, Anniston, Ala.

EAST MOLINE—Union Malleable Iron Co.
(Refined)

EAST ST. LOUIS—Missouri Malleable Iron Co.
(Carriage, Railroad, Street Car, etc.)

FRANKLIN PARK—Forster, Waterbury & Co.

GALESBURG—Galesburg Malleable Castings
Co.

HOOPESTON—Hoopeston Malleable Iron Wks
JOLIET—Pratt, Wm. E Mfg. Co.

KEWANEE—Western Tube Co. (Gas, Steam &
Water Fittings, etc.)

MADISON—American Car & Foundry Co.

MOLINE—Cooper, H. W. (Small)
Union Malleable Iron Co.

ROCKFORD—Rockford Malleable Iron Works
(Machinery & General)

ST. CHARLES—Faultless Stove Works
Moline Malleable Iron Co. (All Kinds)

INDIANA.

INDIANAPOLIS—National Malleable Castings
Co. (Railroad, etc.)

MARION—Marion Malleable Iron Works

MICHIGAN CITY—Haskell & Barker Car Co.
(Car & R. R. Castings)

MUNCIE—Whiteley Malleable Castings Co. (Ag-
ricultural, Railroad, etc.)

SOUTH BEND—Oliver Chilled Plow Works

TERRE HAUTE—Terre Haute Malleable &
Mfg. Co.

IOWA.

FAIRFIELD—Iowa Malleable Co.

KENTUCKY.

PADUCAH—Lack Malleable Iron Co.

MARYLAND.

BALTIMORE—Baltimore Malleable Iron & Steel
Casting Co. (Railroad, Machinery, etc.).
Symington, T. H. Co. Charles c' Wells

MASSACHUSETTS.

BOSTON—Laconia Car Co. Works (For Elec-
trical Work), 100 Boylston

Livermore, Homer F. (All Kinds), 85 Pearl

EASTON—Belcher Malleable Iron Co. (Machin-
ery, Agricultural, etc.)

WORCESTER—Arcade Malleable Iron Co.
(Castings of Every Description)

MICHIGAN.

ALBION—Albion Malleable Iron Co. (Agricul-
tural, Carriages, etc.)

BENTON HARBOR—Benton Harbor Mallea-
ble Iron Co.

DETROIT—Buhl Malleable Co. (Car. Agricul-
tural, etc.), St. Clair & Crossley avs.

GRAND RAPIDS—Grand Rapids Malleable
Works (Railroad, etc.)

MUSKEGON—Standard Malleable Iron Co. (Ag-
ricultural, etc.)

PORT HURON—Port Huron Engine & Thresher
Co.

MINNESOTA.

ST. PAUL—Northern Malleable Iron Co. (Ag-
ricultural Implement & Railroad)

MISSOURI.

ST. LOUIS—American Car & Foundry Co.
St. Louis Car Co. (Car & R. R.), 8000 N

Bevay

St. Louis Malleable Casting Co., 7701 N
Conduit av

NEW HAMPSHIRE.

LACONIA—Laconia Car Co. Works (For Elec-
trical Work)

NEW JERSEY.

BLOOMFIELD—American Malleable Co.

NEWARK—Barlow Foundry Co.
Barnett, Oscar, Foundry Co. (Custom

Work, Light & Medium), 105 Hamblton

Meeker Foundry Co. (All Kinds up to 200
lbs), 95 Clay

PLAINFIELD—Quincy-Manchester-Sargent
Company

TRENTON—Trenton Malleable Iron Co. (All
Kinds)

NEW YORK.

AUBURN—International Harvester Co. of
America (All Kinds), Osborne Plant

BROOKLYN—(See New York City, Borough
of Brooklyn)

BUFFALO—Acme Steel & Malleable Iron
Works, 245 Military rd

Pratt & Letchworth Co. (Also Steel Cast-
ings)

CORNING—Symington, T. H. Co.

HOOSICK FALLS—Wood, Walter A., Mowing
& Reaping Machine Co. (For Own Con-
sumption)

LANCASTER—American Malleable Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Columbla Machine Works &
Malleable Iron Co., 269 Chestnut

Boroughs of Manhattan & Bronx.

NEW YORK—Ajax Foundry & Machine Co., 136
Liberty

American Car & Foundry Co., 165 B'way

American Malleable Co., 170 B'way

G. & W. MFG. CO., 26 Cortlandt,
(See adv. index, end of book)

JEFFREY MFG. CO., 77 Warren.
(See adv. index, end of book)

Gould Coupler Co., 345 5th av

Toop, Geo. H., 2572 Park av

WHEELER, CHARLES CHILD (All
Sizes), 113 B'way. (See adv. index, end
of book)

(End of New York City)

ORISKANY—Oriskany Malleable Iron Co. (Ltd.)
(All Kinds, Light & Heavy)

SPUYTEN DUYVIL—Johnson, Isaac G. & Co.
(All Kinds)

SYRACUSE—Frazer & Jones Co. (Saddlery, Ag-
ricultural & General), 351 W Fayette

Globe Malleable Iron Co. (Automobile, etc.)

Syracuse Malleable Iron Works

TROY—Torrance Malleable Iron Co.
Troy Malleable Iron Co. (R. R., Car, Lo-

comotive, Track Equipment & Electrical)

WESTMORELAND—Westmoreland Malleable
Iron Co. (Ltd.) (Agricultural, Carriage,
Saddlery & General)

OHIO.

BARBERTON—Pittsburg Valve & Fittings Co.

CANTON—Canton Malleable Iron Co. (Saddlery
& General Castings)

Elbel Co. (Saddlery Hardware & Castings)

CINCINNATI—Havens Malleable Castings Co.
(Carriage Hardware & Custom), Knowl-
ton & C. H. & D. R'y

CLEVELAND—CHISHOLM & MOORE
Mfg. Co. (Light & General, Smooth &
Well Annealed Castings), 49th & Lake.
(See adv. index, end of book)
Eberhard Mfg. Co. (Saddlery Only), Tenny-
Fauser Mfg. Co. son & C. & P. R. R.
Grabler Mfg. Co. (Small)
National Malleable Castings Co. (Railroad,
etc.)

COLUMBUS—Buckeye Steel Castings Co. (Car
Couplers, Chain Links & General)
Columbus Malleable Castings Co.

JEFFREY MFG. CO. (See adv. in-
dex, end of book)

OHIO MALLEABLE IRON CO. (All
Kinds). (See adv. index, end of book)

DAYTON—Dayton Malleable Iron Co. (For
Railroad & Car Builders)

FINDLAY—Findlay Axe & Tool Co.

IRONTON—Ironton Malleable Iron Co.

MANSFIELD—Ohio Brass Co.

MARION—American Malleable Castings Co.

SPRINGFIELD—American Seeding Machine Co.
(Agricultural Implements Only)

International Harvester Co. (Champion
Works)

Springfield Malleable Iron Co. (Small &
Railroad Castings)

TIFFIN—Tiffin Malleable Iron & Chain Co.

TOLEDO — National Malleable Castings Co.
(Railroad, etc.)

United States Malleable Iron Co. (Auto-
mobile, Carriage, R. R. & Implement)

WAKREN—Trumbull Mfg. Co.

ZANESVILLE—Zanesville Malleable Co.

PENNSYLVANIA.

BEAVER DAM—Beaver Dam Malleable Iron
BERWICK—Berwick Malleable Co.

EASTON—Sterlingworth Railway Supply Co.
(Refined Air Furnace)

ERIE—Erie Malleable Iron Co. (All Kinds)
Jarecki Mfg. Co. (Fittings, etc., for Steam,
Gas & Water)

Morse Iron Works (Castings & Pipe Fit-
tings)

GREENBURG—Kelly & Jones Co.

McKEES ROCKS—Fort Pitt Malleable & Grey
Iron Co.

Penna Malleable Co. (Small & Large R. R.
Castings a Specialty)

MAHAFFEY—Howell Car & Foundry Co. (See
Pittsburg, Pa.)

MEADVILLE—Meadville Malleable Iron Co.
(Railroad Castings a Specialty from Re-
fined & Furnace Iron)

**NEW KENSINGTON—Allegheny Valley Mallea-
ble Iron Co.**

OIL CITY—OIL WELL SUPPLY CO.
(See adv. index, end of book)

PHILADELPHIA—Bancroft & Co., 5th &
Chestnut

Devlin, Thos. Mfg. Co. (Carriage, Saddlery,
Agricultural, Pipe Fittings, etc.), 3d &
Lehigh av

Flagg, Stanley G. & Co. (Pipe Fittings,
etc.), 424 N 19th

Philadelphia Hardware & Malleable Iron
Works (Light), 9th & Jefferson

Sterlingworth Railway Supply Co. (Refined
Air Furnace), North American bldg

PITTSBURG—Empire Machine Works, 210 3d
Fort Pitt Malleable Iron Co. av

McConway & Torley Co. (Car Couplers &
R. R. Castings, etc.), 48th & A. V. R. R.

Mesta Machine Co.

OIL WELL SUPPLY CO., 215

Water. (See adv. index, end of book)

Pennsylvania Malleable Co. (Small & Large
R. R. Castings a Specialty), Farmers'
Bank bldg

Pittsburg Malleable Iron Co. (Air Brakes,
Fittings, Electric Motor Gears & Mis-
cellaneous), 34th & Smallmap

SHARON—National Malleable Castings Co.
Railroad, etc.)

STOWE—Flagg, Stanley G. & Co. (See Phila-
delphia, Pa.)

YORK—York Mfg. Co. (All Kinds)

RHODE ISLAND.

HILLS GROVE—Rhode Island Malleable Iron
Works (All Kinds)

TENNESSEE.

CHATTANOOGA—Ross-Meehan Foundry Co. (1
oz. to 50,000 lbs.)

WASHINGTON.

PUYALLUP—Acme Malleable Iron Foundry
Co.

WEST VIRGINIA.

POINT PLEASANT—West Virginia Malleable
Iron Co.

WISCONSIN.

BEAVER DAM—Beaver Dam Malleable Iron
Co. (All Kinds)

MILWAUKEE—Chain Belt Co.

Milwaukee Hay Tool Co.
Milwaukee Malleable & Grey Iron Works.
Layton Park

Northwestern Malleable Iron Co. (Agricul-
tural, Car, etc.), 766 Park

South Side Steel & Malleable Casting Co.
Milwaukee, Wis.

Western Malleable & Grey Iron Mfg. Co.
139 Burrell

Wisconsin Malleable Iron Co., S Bay &
Mound

RACINE—Belle City Malleable Iron Co. (Rail-
road Castings, etc.)

Lakeside Malleable Castings Co.
Racine Malleable & Wrought Iron Co.
(Wagon, Carriage, Saddlery, Hardware,
etc.)

SHEBOYGAN—Globe Foundry & Machine Co.

SOUTH MILWAUKEE—Badger Malleable &
Mfg. Co. (For All Purposes)

Stowell Mfg & Foundry Co. (Light Cast-
ings for All Purposes)

WAUKESHA—Waukesha Malleable Iron Co.
(Farm Implements, Logging Tools, etc.)

WEST ALLIS—West Allis Malleable Iron &
Chain Belt Co.

Castings (Manganese Bronze)

(See Manganese Bronze Castings)

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

Castings (Manganese Steel)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.

Blake, Edwin J., Hartford, Conn.

Brylgon Steel Casting Co. (Low Carbon for
Electrical Purposes), New Castle, Del.

Chicago Steel Foundry Co., Rookery bldg, Chi-
cago, Ill.

Crucible Steel Casting Co., Landsdowne, Pa.

Oostburg Steel Foundry (Crucible Manganese).
Oostburg, Wis.

Prime Steel Co., Milwaukee, Wis.

Smith, Geo. H. Steel Casting Co., Milwaukee,
Solid Steel Casting Co., Chester, Pa. Wis.

Taylor Iron & Steel Co., High Bridge, N. J.

Castings (Marine)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.

Bethlehem Foundry & Machine Co. (Mooring
posts, Clocks, Cleats, Davits, Deck
Sleeves, etc.), Front, South Bethlehem,
Pa.

Cramp, Wm. & Sons Ship & Engine Building
Co., Philadelphia, Pa.

Crown Smelting Co. (Brass), Chester, Pa.

Eastwood Wire Mfg. Co. (Iron, Brass, Bronze,
etc.), Belleville, N. J.

G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)

Great Lakes Engineering Works, Detroit, Mich.

GRISCOM-SPENCER CO., 90 West,
New York, & ft. Washington av, Phila-
delphia, Pa. (See adv. index & branch of-
fices, end of book)

MARINE ENGINE & MACHINE CO.
(100 to 40,000 lbs.), Main Office: 230 W
13th, New York; Works: Harrison, N. J.

(See adv. index & branch offices, end of book)

Norwalk Brass Co. (Brass, Bronze, Aluminum,
etc.), Norwalk, Conn.

Reeves, Paul S. & Son, 1413 Catherine, Phila-
delphia, Pa.

Solid Steel Casting Co., Chester, Pa.

WHEELER, CHARLES CHILD, 113
B'way, New York. (See adv. index, end
of book)

Castings (Mining)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.

Castings (Nickel Steel)

American Brake Shoe & Foundry Co., Mahwah,
N. J., & Western Union bldg, Chicago, Ill.

American Steel Foundries. Main Office: Com-
mercial Nat'l Bank, Chicago, Ill.

Bethlehem Steel Co., South Bethlehem, Pa., &
111 B'way, New York

Chicago Steel Foundry Co. (Non Corrosive),
Rookery bldg, Chicago, Ill.

Crucible Steel Casting Co., Landsdowne, Pa.

Eastwood Wire Mfg. Co., Belleville, N. J.

Massachusetts Steel Casting Co., Everett, Mass.

Mesta Machine Co., Lewis bldg., Pittsburg,
Pa.

New Process Steel Co. (Vanadium), Marshall,
Mich.

Taylor Iron & Steel Co., High Bridge, N. J.

THE OHIO MALLEABLE IRON COMPANY

COLUMBUS, OHIO.



OUR CASTINGS COMBINE



Ductility

Of Wrought
Iron

Accuracy

of Drop
Forgings

Strength

of Cast
Steel

Up to the Full Limit of Malleable Cast Iron Possibilities.

Castings (Open-Hearth Steel)

(See firms in Castings, Steel, with the words Open-Hearth following their names)

Castings (Ordinance)

American Brake Shoe & Foundry Co., Mahwah, N. J., & Western Union bldg, Chicago, Ill.
American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
Midvale Steel Co., Nicetown, Phila., Pa.

Castings (Parson's Bronze)

Cramp, Wm. & Sons, Ship & Engine Building Co., Philadelphia, Pa.
Morris, I. P., Co. (Up to 50 Ton), cor Beach & Ball, Phila., Pa.

Castings (Phosphor Bronze)

American Brass & Aluminum Co., Indianapolis, Ind.
American Valve & Meter Co., Cincinnati, O.
Anderson, A. H. (Light & Heavy), 52 N Ann, Chicago, Ill.
Attwood Brass Works (Heavy), Grand Rapids, Mich.
Bastian, C. L. Mfg. Co., 76 Illinois, Chicago, Ill.
Bay State Brass Foundry Co., 155 A st, So. B., Boston, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., Pittsburg, Pa.
Blake, Edwin J., Hartford, Conn.
BROWN, A. & F. CO., 25 E. 2d, New York, Works: Elizabethport, N. J. (See adv. index, end of book)
Chapman, J. B. & Co., Springfield, Mass.
Clum & Atkinson, Rochester, N. Y.
Crown Smelting Co., Chester, Pa.
Damascus Bronze Co., Allegheny, Pa.
Darling Pump & Mfg. Co., Williamsport, Pa.
Edna Smelting & Refining Co., 525 Reading rd, Cincinnati, O.
Elyria Machine Parts Co., Elyria, O.
Emory, P. P., Mfg. Co., Springfield, Mass.
Enterprise Foundry Co., Detroit, Mich.
Eureka Tempered Copper Works, North East, Pa.
Eynon-Evans Mfg. Co., 1509 Clearfield, Philadelphia, Pa., & 32 B'way, New York
Fewlass, Leen Brass & Iron Co., 456 E. 2d, Cincinnati, O.
Friese Co., 91 Main, Buffalo, N. Y.
GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Hackett Bros., Detroit, Mich.
Higgins & Co., Holyoke, Mass.
Hoban Brass Foundry Co., 44 Wyandot, Dayton, O.
Holton & Weatherwax Co., Ltd., Jackson, Mich.
Industrial Pattern & Bronze Co., Cleveland, O.
Johnson Service Co., Milwaukee, Wis.
Krisher's Brass Foundry, Akron, O.
Krouse, Geo. (Heavy), Jersey City, N. J.
Langsenkamp-Wheeler Brass W'ks, 1208 Shelby, Indianapolis, Ind.
Leffel, Jas. & Co., Springfield, O.
Lehigh Valley Corbice Works, Bethlehem, Pa.
Leslie Co. (Inc.), Lyndhurst, N. J.
Long & Stillman, 149 B'way, New York
LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

LUMEN BEARING CO., Buffalo, N. Y. (See adv. index, end of book)
McCartney, Josiah, Bay City, Mich.
McHatton Smelting Co., 1500 Washington av, Philadelphia, Pa.
Mansfield Tempered Copper Co., Mansfield, O.
MERCHANT & EVANS CO. (Inc.), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Messmer, Ferd. Mfg. Co., St. Louis, Mo.
Mesta Machine Co., Lewis bldg., Pittsburg, Pa.
Milwaukee Ornamental Metallic Mfg. Co., 316 Lake
Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.
Newell, Fred. E., Central Falls, R. I.
Norwalk Brass Co., Norwalk, Conn.
Ohio Brass Co., Mansfield, O.
Phosphor Bronze Smelting Co., 2200 Wash'n av, Phila., Pa.
Pioneer Brass Works, Indianapolis, Ind.
Pittsburgh Brass Mfg. Co., Penn av & 32d, Pittsburg, Pa.
PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Reeves, Paul S. & Son, 1413 Catherine, Philadelphia, Pa.
Richardson, Edro, 316 N Holliday, Baltimore, Md.
Riverside Metal Co., Riverside, N. J.
Russell Engine Co., Massillon, O.
Rowell, W. G., Co., Bridgeport, Conn.
ST. PAUL FOUNDRY CO., Como av. & Mackubin, St. Paul, Minn. (See adv. index, end of book)
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Union Brass Foundry Co., Lowell, Mass.
United Engineering & Foundry Co. (All Weights), Farmers B'k bldg, Pittsburg, Pa.
U. S. Bronze Co., 1831 Columbus rd, N W, Cleveland, O.
Ward & Williams, Hancock, Mich.
Watson, Frye & Co., Bath, Me.
WHEELER, CHARLES CHILD, 113 B'way, New York. (See adv. index, end of book)
Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

*Castings (Puddled Semi-Steel)

LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Castings (Railroad)

(See also Castings, Malleable Iron; Castings, Aluminum; Castings, Brass; Castings, Bronze; Castings, Copper; Castings, Grey Iron; Castings, Gun Metal; Castings, Phosphor Bronze; Castings, Steel; Machinists & Founders)

American Brake Shoe & Foundry Co., Mahwah, N. J., & Western Union bldg, Chicago, Ill.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
ST. PAUL FOUNDRY CO., Como av & Mackubin, St. Paul, Minn. (See adv. index, end of book)

Castings (Rock Crusher)

American Brake Shoe & Foundry Co. (Iron & Steel Car & Locomotive, etc.), Mahwah, N. J., & Western Union bldg, Chicago, Ill.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Chester Steel Castings Co., Chester, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Green's Car Wheel Mfg. Co. (Chilled), St. Louis, Mo.
Pennsylvania Steel Co. ("Manard" Steel), Girard bldg., Phila., Pa.
Phila. Roll & Machine Co., S 23d & Wash'n av, Philadelphia, Pa.
Power & Mining Machinery Co., Cudahy, Wis.
Solid Steel Casting Co., Chester, Pa.
Steele & Condict (Inc.) (Also for Elevators & Screens), Jersey City, N. J.
Taylor Iron & Steel Co., High Bridge, N. J.
YAGLE FOUNDRY & MACHINE CO. (Ltd.) (For Blake Crushers), 400 32d, Pittsburg, Pa. (See adv. index, end of book)

Castings (Rolling Mill & Furnace)

(This List is Duplicated under Head of "Machinists & Founders")
(See also Machinery, Rolling Mill; also Rolls, Sand & Chilled)

American Brake Shoe & Foundry Co., Mahwah, N. J., & Western Union bldg, Chicago, Ill.
American Foundry & Construction Co., 4716 2d av, Pittsburg, Pa.
American Sheet & Tin Plate Co., Canton, O.
Bethlehem Steel Co., South Bethlehem, Pa.
Braddock Machine & Mfg. Co., Braddock, Pa.
Cooper, C. & G. Co., Mt. Vernon, O.
Fischer Foundry & Machine Co., Fort City, Pa.
Harrison, A. Foundry Co., Pittsburg, Pa.
Hyde Park Foundry & Machine Co., Hyde Park, Pa.
Lewis Foundry & Machine Co., Coraopolis, Pa.
Mackintosh, Hemphill & Co., ft 12th, Pittsburg, Pa.
Marshall Foundry Co., 28th & A. V. R. R., Pittsburg, Pa.
Massillon Iron & Steel Co., Massillon, O.
Mesta Machine Co., Pittsburg, Pa.

National Brake & Electric Co., Milwaukee, Wis.
National Gear Wheel & Foundry Co., South av & Walker, Allegheny, Pa.
Newbold, R. S. & Son Co. (Heavy), Norris, Ohio Machine Co., Middleport, O. town, Pa.
Penna. Engineering Works, New Castle, Pa.
Phila. Roll & Machine Co., S 23d & Wash'n av, Philadelphia, Pa.
Reading Iron Co., Reading, Pa.
Riverside Foundry Co., 2021 Carter rd., N. W., Cleveland, O.
Sharon Foundry Co., Sharon, Pa.
Solid Steel Casting Co., Chester, Pa.
Sterling Steel Foundry Co., Pittsburg, Pa.
Sterritt, Thomas Foundry Co., Pittsburg, Pa.
Union Foundry & Machine Co., Pittsburg, Pa.
United Engineering & Foundry Co., Pittsburg, Pa.
Valley Iron Works, Williamsport, Pa.
Veltz Foundry & Machine Co., Home & A. V. R. R., Pittsburg, Pa.
Welmer Machine Works Co., Lebanon, Pa.
Wheeling Mold & Foundry Co., Wheeling, W. Va.
YAGLE FOUNDRY & MACHINE CO. (Ltd.), 400 32d, Pittsburg, Pa. (See adv. index, end of book)
Youngstown Foundry & Machine Co., Youngstown, O.

Castings (School Desk & Open Chair)

Woodruff & Edwards Co., Elgin, Ill.

Castings (Semi-Steel)

Allegheny Foundry Co., Warren, Pa.
American Sheet & Tin Plate Co., Roll & Machine Works, Canton, O.
Ball Engine Co. (Up to 20 Tons), Erie, Pa.
Best Mfg. Co., 25th & A. V. R'y, Pittsburg, Pa.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
Birmingham Iron Foundry (Heavy), Derby, Conn.
Brady, Jas. A. Foundry Co., 35th & S Ashland av, Chicago, Ill.
Buckeye Steel Castings Co., Columbus, O.
Buffalo Foundry & Machine Co. (Up to 200 Tons), Buffalo, N. Y.
Elmira Heater & Foundry Co., Elmira, N. Y.
Farrel Foundry & Machine Co. (Heavy), Ansonia, Conn.
Featherstone Foundry & Machine Co., 348 N. Halsted, Chicago, Ill.
Francis & Nygren Foundry Co. (For Ammonia Castings, Smelting & Acid Kettles, Gears, etc.), Chicago, Ill.
Keystone Steel Casting Co., Chester, Pa.
Lake Erie Engineering Works (Heavy, Rough & Machined), Buffalo, N. Y.
Malleable Iron Fittings Co. (Homogenous Metal), Branford, Conn.
Mesta Machine Co., Pittsburg, Pa.
Raquette Foundry & Supply Co., Potsdam, N. Y.
Shriver, T. & Co., Harrisou, N. J.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
United Engineering & Foundry Co., Farmers Bk. Bldg., Pittsburg, Pa.
Walker Foundry Co., Erie, Pa.
WHEELER, CHARLES CHILD, 113 B'way, New York. (See adv. index, end of book)
Worcester Steel Foundry Co. (Crucible, 1 to 1,000 lbs.)
Wilmington Malleable Iron Co., Wilmington, Del.
Wollaston Foundry Co., Wollaston, Mass.

Castings (Sewer)

(See Manhole Covers; also Sewer Inlet Manufacturers)

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

*Castings (Sidewalk & Vault Light)

CANTON FOUNDRY & MACHINE CO.
(Illuminating), Canton, O. (See adv. index, end of book)

Castings (Steam Fitters')

(See Fittings, Various Kinds)

Castings (Steel)

(This List Is Duplicated under Head of Machinists & Founders)

ALABAMA.

BIRMINGHAM—Birmingham Steel & Iron Co. (Basic Open Hearth; General Machinery Castings)
Southern Steel Co. (Basic Open Hearth, All Consumed by the Company)
Tennessee Coal, Iron & R. R. Co. (Basic Open Hearth Gears, Rolls, Engine Parts, etc.)

CALIFORNIA.

LOS ANGELES—Potter, John A.
SAN FRANCISCO—Doble, Abner Co. (Basic Open Hearth)
Pacific Jupiter Steel Co. (Acid Open Hearth & Crucible)
Union Iron Works Co. (Tropenas, for Company's Own Use)

COLORADO.

DENVER—American Brake Shoe & Foundry Co. (See Chicago, Ill.)
Colorado Fuel & Iron Co. (Bessemer & Open Hearth, for Company's Own Use)

CONNECTICUT.

BRANFORD—Malleable Iron Fittings Co. (Acid Open Hearth & Tropenas)
COLLINSVILLE—Collins Co. (Crucible, all consumed by the company)
NEW HAVEN—American Steel & Wire Co. (Acid Open Hearth)

DELAWARE.

NEW CASTLE—Baldt Steel Co. (Acid Open Hearth, up to 50 tons each)
Brylgon Steel Casting Co. (Bookwalter & Manganese Steel, Cut Gear Blanks, Motor Frames, etc.)
WILMINGTON—Tropenas Steel Co. (Tropenas Steel)

DISTRICT OF COLUMBIA.

GIESBORO MANOR—Firth-Sterling Steel Co. (Acid & Basic Open Hearth). Main Office: McKeesport, Pa.
WASHINGTON—Naval Gun Factory, U. S. Naval Yard (Tropenas)

ILLINOIS.

BRADLEY—Bradley, David, Mfg. Co. (Crucible Steel Plow Shares)
CHICAGO—American Brake Shoe & Foundry Co. (Tropenas & Crucible)
American Steel Foundries (Acid Open Hearth & Crucible up to any Weight)
Commercial Nat'l B'k Bldg.
Armor Steel & Foundry Co. (Acid Open Hearth; also Casting by the Gebhard Process), First Nat'l Bank. Works: Indiana Harbor, Ind.
Chicago Steel Foundry Co. (High Manganese & High Carbon Crucible; also Magnetic for Electrical Purposes)
Rookery Bldg.
Crane Co. (Soft Zenses)
Illinois Steel Co. (Bessemer & Open Hearth, for Company's Own Use)
Inland Steel Co. (Open Hearth up to any Weight), 164 Dearborn; Works: Indiana Harbor, Ind.
Latrobe Steel & Coupler Co., Old Colony bldg.
Link Belt Co. (Zenses, all Consumed by the Company)
National Car Coupler Co. (Acid Open Hearth; 1 to 500 lbs.)
Monadnock blk.
Works: Attica, Ind.
Otis Elevator Co. (Schwartz Steel Castings)

CHICAGO HEIGHTS—American Brake Shoe & Fdry Co. (Tropenas & Crucible)
EAST ST. LOUIS—American Steel Foundries (Crucible, Acid Open Hearth, up to Any Weight). Main Office, Chicago, Ill.

GRANITE CITY—American Steel Foundries (Acid Open Hearth & Crucible, up to Any Weight). Main Office, Chicago, Ill.
Commonwealth Steel Co. (Basic Open Hearth). Office, St. Louis
INDIANA HARBOR—American Steel Foundries (Acid Open Hearth & Crucible, up to Any Weight). Main Office, Chicago, Ill.
MELROSE PARK—Latrobe Steel & Coupler Co. (Basic Open Hearth)

INDIANA.

ATTICA—National Car Coupler Co. (Acid Open Hearth). Office, Chicago, Ill.
INDIANA HARBOR—American Steel Foundries (Acid Open Hearth, Car, Locomotive & Other Steel Castings), Office, Chicago, Ill.
MATTHEWS—Armor Steel & Foundry Co. (Acid Open Hearth; also Castings by the Gebhard Process). Office, Chicago, Ill.
MICHIGAN CITY—Haskell & Barker Car Co.
MONTPELIER—National Steel Casting Co. (Acid Open Hearth Car Couplers, Knuckles & General Castings)
MUNCIE—Whiteley Malleable Castings Co. ("Whiteley's Crocon," for Automobiles, Pneumatic Tools, Gas Engines, etc.)
Whiteley Steel Co. (High Grade, Small)

IOWA.

DAVENPORT—Bettendorf Axle Co.
SOUTH BEND—Oliver Chilled Plow Works (Crucible, all Consumed in Their Works)
DES MOINES—Des Moines Bridge & Iron Works
LONE TREE—Zimmerman Steel Co.

MARYLAND.

BALTIMORE—Baltimore Malleable Iron & Steel Casting Co. (Tough), Charles Wells
ELLCOTT MACHINE CO., Bush & Severn. (See adv. index, end of book)
Maryland Steel Co., Sparrows Point

MASSACHUSETTS.

BOSTON—Eastern Steel Casting Co. (Crucible)
Lundin Steel Casting Co. (Hard & Soft Crucible for Automobiles, Machinery, Tools, Dies, etc.)
EVERETT—Massachusetts Steel Casting Co. (Acid Open Hearth & "Tropenas")
HYDE PARK—New England Steel Casting Co. (Crucible)
LYNN—General Electric Co. (Acid, Open Hearth & Crucible)
MILLBURY—Oakley Steel Foundry Co. (Crucible, 1 to 1,000 lbs.)
WEST WAREHAM—Trement Nail Co. (Bessemer)
WORCESTER—Arcade Malleable Iron Co. (All Worcester Malleable Iron Works)
Worcester Steel Foundry Co. (Crucible, 1 to 1,000 lbs.)

MICHIGAN.

ADRIAN—Adrian Steel Casting Co. (Crucible Steel for Light Machinery a Specialty)
BAY CITY—Industrial Works (Basic, Open Hearth, for Their Own Use)
DETROIT—Detroit Steel Casting Co. (Robert Bessemer & Basic Open Hearth)
1243 Michigan av
Michigan Crucible Steel Castings Co. (Light Crucible, Specialty Automobile Castings)
Monarch Steel Casting Co. (Acid Open Hearth)
Western Malleable Steel Co. (Malleable Steel for Automobiles, Pneumatic Tools, Gas Engines, etc.)
HOUGHTON—Carroll Foundry (Modified Tropenas)
KALAMAZOO—Reed Mfg. Co. (Crucible for Automobiles, Machinery, etc.)
MARSHALL—New Process Steel Co. ("Nickel Vanadium" & Crucible)
MENOMINEE—Prescott Co. (Basic Open Hearth, Electrical, etc.)

MINNESOTA.

MINNEAPOLIS—Washburn Steel Castings & Coupler Co. (Acid Open Hearth)
ST. PAUL—AMERICAN HOIST & Derrick Co. (Tropenas.) (See adv. index, end of book)

MISSOURI.

KIRKWOOD—Natural Power Co.
ST. LOUIS—American Steel Foundries (Acid Open Hearth & Crucible Up to Any Weight), Frisco Bldg., Main Office, Chicago, Ill.
Commonwealth Steel Co. (Basic Open Hearth). Works, Granite City, Ill.
Curtis & Co. Mfg. Co. (Manganese, High Carbon, Chrome & Soft Castings of Bessemer & Open Hearth)
Scullin-Gallagher Iron & Steel Co. (Open Hearth, up to 60,000 lbs.), Kraft & Manchester av

NEW JERSEY.

CHROME—Chrome Steel Works (Acid & Basic Open Hearth & Crucible)
HIGH BRIDGE—Taylor Iron & Steel Co. (Hatfield-Taylor Manganese, Nickel, Chrome, etc.; Also Armor Piercing Projectiles)
MAHWAH—American Brake Shoe & Foundry Co. (Crucible)
NEWARK—Atha Steel Casting Co. (Special Bessemer, Acid & Basic Open Hearth)
Riverside Steel Casting Co. (Crucible, one lb. to 1,000 lbs.)
OXFORD—American Steel Corporation (Wills, Steel Castings)
RAHWAY—New Jersey Steel Co. (Special Bessemer & Acid Open Hearth)

NEW YORK.

BUFFALO—Acme Steel & Malleable Iron Works, Buffalo, N. Y.
American Brake Shoe & Fdry Co. (Crucible)
Buffalo Crucible Castings Co. (Small Crucible Castings & Ingots)
Buffalo Foundry & Machine Co. (Up to 200 Tons)
Lackawanna Steel Co. (Bessemer & Open Hearth for Their Own Use)
Niagara Forged Steel Co. (Basic Open Hearth); Works, Depew, N. Y.
Pratt & Letchworth Co. (Acid Open Hearth)
Rippel, E. G., Steel Foundry Co. (Crucible)
Strong Steel Foundry Co. (Crucible)
DEPEW—Gould Coupler Co. (Basic Open Hearth)
Niagara Forged Steel Co. (Basic Open Hearth). See Buffalo, N. Y.
LOCKPORT—Drew, E. H. (Crucible).

NEW YORK CITY.

Boroughs of Manhattan & Bronx.

NEW YORK—American Brake Shoe & Fdry Co., Hudson Terminal bldg. Works, Chicago Heights, Ill.
American Bridge Co. (Acid Open Hearth), 30 Church
American Steel Foundries (Acid Open Hearth, Crucible up to Any Weight), Hudson Terminal bldg.
Bethlehem Steel Co., 111 B'way
G. & W. MFG. CO., 26 Cortlandt. (See adv. index, end of book)
Gould Coupler Co. (Basic Open Hearth), 345 5th av. Works, Depew, N. Y.
Johnson, Isaac G., & Co. (Acid Open Hearth, Crucible, Tropenas, Steel Castings & Special Electric Metal of High Permeability), Spuyten Duyvil
Milliken Bros., Inc. (Basic Open Hearth for their own use)
Newport News Shipbuilding & Dry Dock Co. (Tropenas), 30 Church. Works, Newport News, Va.
Pennsylvania Steel Co. (Acid Open Hearth & Crucible), 71 B'way. Works, Steelton, Pa. Main office, Philadelphia, Pa.
WHEELER, CHARLES CHILD (All Sizes), 113 B'way. (See adv. index, end of book)

OHIO.

AKRON—Christy Steel Co. (Crucible, for Automobiles & Machinery Parts, etc.)
 ALLIANCE—American Steel Foundries (Acid Open Hearth & Crucible up to any weight). Main office, Chicago, Ill.
 BUCYRUS—Bucyrus Steel Casting Co. (Basic Open Hearth up to 50,000 lbs.)
 CANTON—Shull Steel Castings & Mfg. Co.
 CINCINNATI — **LUNKENHEIMER CO.** (Special Steel Castings). (See adv. index, end of book)
 CLEVELAND—American Steel & Wire Co. (Acid & Basic Open Hearth, for the Company's own use)
 Bruce-Macbeth Eugene Co.
 Cleveland Steel Casting Co. (Acid Open Hearth, Heavy)
 National Malleable Castings Co. (Open Hearth)
 Otis Steel Co. (Acid & Basic Open Hearth from 100 to 75,000 lbs.)
 Stamp, C. E. & Co. (Crucible)
 Wellman-Seaver-Morgan Co. (Basic Open Hearth)
 West Steel & Iron Casting Co. (Tropenas, Small & Medium)
 COLUMBUS—Bonney-Floyd Co. (Tropenas & Crucible, Medium & Small)
 Buckeye Steel Castings Co. (Basic Open Hearth)
 LIMA—Ohio Steel Foundry Co. (Acid & Basic Open Hearth)
 MARION—Marion Steel Shovel Co. (Robert Bessemer, all consumed by their company)
 MIDDLETOWN—**AMERICAN ROLLING** Mill Co. (Heavy Basic, Open Hearth). (See adv. index, end of book)
 PORTSMOUTH—Portsmouth Steel Co. (Open Hearth)
 STEUBENVILLE—La Belle Iron Works (Basic Open Hearth, General Mill Castings)
 TOLEDO—Sutton, C. E., Co. (Tropenas).
 WELLSVILLE—Menough Foundry Co. (Adams Steel Castings)
 PORTSMOUTH—Portsmouth Steel Co. (Open Hearth)
 YOUNGSTOWN—Youngstown Foundry & Machine Co. (Acid Open Hearth, 1 lb. to 100,000 lbs., Rough or Machined)

PENNSYLVANIA.

AVONMORE—Keystone Steel Foundry Co. (Crucible & McHaffie)
 BEAVER FALLS—Keystone Driller Co. (Modified Bessemer, for their own use)
 chine Co. (Acid Open Hearth)
 BRADDOCK—Sterling Steel Foundry Co. (Acid Open Hearth)
 BURNHAM—Standard Steel Works Co. (See Phila., Pa.)
 CARNEGIE—Scott Iron & Steel Co.
 CHAMBERSBURG—Chambersburg Engineering Co. (Acid Open Hearth, Heavy)
 CHESTER—American Steel Foundries (Acid Open Hearth & Crucible up to any Weight), Main Office, Chicago, Ill.
 Chester Steel Castings Co. (Open Hearth, Up to 60,000 Pounds). Office, Phila., Pa.
 Federal Steel Foundry Co. (Acid Open Hearth for Machinery Engines, Ships, Locomotives, etc.)
 Keystone Steel Casting Co. (Crucible & McHaffie Steel up to 2,000 lbs.; Steel Gear Castings a Specialty)
 Penn Steel Casting & Machine Co. (Acid Open Hearth & Tropenas, 40 to 80,000 lbs.)
 Seaboard Steel Casting Co. (Acid Open Hearth, up to 80,000 lbs.)
 Solid Steel Casting Co. (Acid Open Hearth)
 COATSVILLE—Lukens Iron & Steel Co. (Open Hearth for Their Own Use)
 CORAOPOLIS—Duquesne Steel Foundry Co. (See Pittsburgh)
 ERIE—National Foundry Co. (Acid Open Hearth Railroad & Machinery Castings)
 FORD CITY—Fisher Foundry & Machine Works (Bessemer & Acid Open Hearth for their own use)
 FRANKLIN—American Steel Foundries (Acid Open Hearth & Crucible up to any Weight), Main Office Chicago, Ill.
 GLASSPORT—Pittsburg Steel Foundry (Acid Open Hearth up to 60,000 lbs.), Office Pittsburgh, Pa.
 JOHNSTOWN—Cambria Steel Co. (Open Hearth), Main Office, Phila., Pa.
 Lorain Steel Co. (Acid Open Hearth). Office, Philadelphia, Pa.
 LANCASTER—Carbon Steel Castings Co.

LANSDOWNE—Crucible Steel Casting Co. Crucible Automobile & Mach Castings, etc., 1 to 200 lbs.)
 LEBANON—Lebanon Steel Casting Co. (Small Crucible)
 McKEESPORT—Firth Sterling Steel Co. (Acid & Basic Open Hearth). Works: Giesboro Manor, D. C.
 McKEES ROCKS—Fort Pitt Malleable Iron Co. (Miscellaneous Open Hearth)
 Fort Pitt Steel Casting Co. (Modified Bessemer)
 Pennsylvania Malleable Iron Co. (See Pittsburgh, Pa.)
 NAZARETH—Nazareth Foundry & Machine Co.
 NEW BRIGHTON—Damascus Crucible Steel Casting Co. (Crucible)
 OIL CITY—National Transit Co. (Crucible & Schwartz for their own use)
 PHILADELPHIA—Cambria Steel Co. (Open Hearth), Arcade bldg. Works, Johnstown, Pa.
 Chester Steel Castings Co. (Open Hearth Up to 60,000 lbs.), 407 Sansom
 Flagg, Stanley G. & Co., 424 N 19th, Phila., Pa.
 Lorain Steel Co. (Acid Open Hearth), Penna. bldg. Works, Johnstown, Pa.
 Midvale Steel Co. (Open Hearth & Crucible for Gun Carriage Mounts, etc., & Armor Piercing Shot & Shell), Nicetown
 Pennsylvania Steel Co. (Acid Open Hearth & Crucible), Girard bldg. Works: Steelton, Pa.
 Phoenix Iron Co., (Open Hearth), 410 Walnut. Works: Phoenixville, Pa.
 Standard Roller Bearing Co. (Crucible), 48th & Lancaster av.
 Standard Steel Works Co. (Acid Open Hearth), Burnham, Pa.
 Wharton, Wm., Jr., & Co. (Tropenas Process), 25th & Washington av.
 PHOENIXVILLE—Phoenix Iron Co. (See Phila., Pa.)
 PITTSBURG—Allegheny Steel Co. (Small Basic Open Hearth)
 American Bridge Co. (Acid & Basic Open Hearth)

HENDRICKS COMMERCIAL

IT IS NOT A CATALOG OF ADVERTISERS ALONE, BUT A COMPLETE REGISTER OF THE MANUFACTURERS AND JOBBERS IN EVERY LINE OF TRADE THAT COMES WITHIN THE SCOPE OF THE WORK.

REGISTER

American Steel Foundries (Acid Open Hearth & Crucible up to Any Weight). Main office, Chicago, Ill.
 Carnegie Steel Co. (Basic & Bessemer, for their own use)
 Duquesne Steel Foundry Co. (Acid Open Hearth & Tropenas). Works: Kendall Station, Pa.
 Hydraulic Machine Co. (Acid & Basic Open Hearth)
 Jones & Laughlin Steel Co. (Open Hearth)
 Mackintosh, Hemphill & Co. (Acid Open Hearth)
 McConway & Torley Co. (Acid Open Hearth)
 Mesta Machine Co. (Acid Open Hearth). Pennsylvania Malleable Co. (Acid Open Hearth, Small & Large R. R. Castings). Works, McKees Rocks, Pa.
 Pittsburg Steel Foundry (Acid & Basic Open Hearth, up to 60,000 lbs.)
 Sterling Steel Foundry Co. (Acid Open Hearth, Rolling Mill, Locomotive & Mining Machinery, etc), Frick Bldg.
 Union Steel Casting Co. (Acid Open Hearth)
 United Engineering & Foundry Co. (Acid Open Hearth, All Weights)
 Velte Foundry & Machine Co. (Modified Tropenas, North Side)
 READING—Reading Steel Casting Co. (Tropenas)
 SHARON—American Steel Foundries (Acid Open Hearth & Crucible up to Any Weight). Main Office, Chicago, Ill.
 National Malleable Castings Co. (Acid & Basic Open Hearth, R. R. Castings & Motor Gear Blanks)
 Sharon Foundry Co. (Acid Open Hearth)
 SOUTH BETHLEHEM—Bethlehem Steel Co. (Open Hearth)
 STEELTON—Pennsylvania Steel Co. (See Phila., Pa.)
 VAUDERGRIFT—United Engineering & Foundry Co. (See Pittsburg, Pa.)
 VERONA—General Castings Co. (Acid Open Hearth)
 WILLIAMSPORT—Sweets Steel Co. (Basic Open Hearth) Works

RHODE ISLAND.

HILLSGROVE—Rhode Island Malleable Iron Works

TENNESSEE.

CHATTANOOGA—Southern Steel Works (Tropenas)

VIRGINIA.

NEWPORT NEWS—Newport News Ship Building & Dry Dock Co. (Tropenas). Office, New York

WASHINGTON.

SEATTLE—Cascade Steel Foundry Co. (Basic Open Hearth)

WEST VIRGINIA.

WHEELING—Portsmouth Steel Co. (Open Hearth). Works, Portsmouth, O.

WISCONSIN.

MILWAUKEE—Chain Belt Co. (Crucible)
 Crucible Steel Castings Co. (Crucible up to 1,200 lbs.)
 Dutcher Co. (Acid Open Hearth).
 Falk Co. (Acid Open Hearth), ft. 30th
 Maynard Steel Foundry Co. (Crucible).
 Milwaukee Steel Foundry Co. (Special Converter Steel Castings)
 National Brake & Electric Co. (Crucible & Acid Open Hearth)
 Nortmann-Duffke Foundry Co. (Crucible)
 Prime Steel Co. (Crucible).
 Smith, Geo. H., Steel Casting Co. (Special Converter Steel Castings)
 OOSTBURG—Oostburg Steel Foundry (Crucible)
 RACINE—Racine Steel Casting Co. (Crucible)
 SOUTH MILWAUKEE—Bucyrus Co. (Basic Open Hearth for Their Own Use)
 WEST ALLIS—Gerlinger Steel Casting Co. (Crucible for Auto, Electric Mining Machinery, etc.)

Castings (Steel Dredge)

(See Castings, Dredge)

Castings (Stone Crusher)

(See Castings, Rock Crusher)

Castings (Sugar House)

American Brake Shoe & Foundry Co., Mahwah, N. J., & Western Union bldg, Chicago, Ill.
MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Castings (Tropenas Steel)

(See also firms in Castings, Steel, with the word Tropenas following their names)

American Brake Shoe & Foundry Co., Mahwah, N. J., & Western Union bldg, Chicago, Ill.
 Tropenas Steel Co., New Castle, Del.

Castings (Tubal Bronze)

Reeves, Paul S., & Son, 1415 Catharine, Phila., Pa.

Castings (Vacuum Pan)

Allentown Foundry & Machine Works, Allentown, Pa.

Castings (Vanadium Steel)

(See also firms in Castings, Steel, with the word Vanadium following their name)

Mesta Machine Co., Lewis bldg., Pittsburg, Pa.
 New Process Steel Co., Marshall, Mich.
 United Steel Co., Canton, O.

Castings (Veeder Metal)

Veeder Mfg. Co. (For Small Gears, Pinions, Counter Wheels for Voting Machines, Cash Registers, etc.), Hartford, Conn.

Castings (Water Works)

(See Cast Iron Pipe Manufacturers, Gas & Water; also Valves, Gate, for Water Mains; also Sewer Manhole Covers; also Fittings, Water Works)

Castings (White Metal)

Bancroft & Co., Drexel Bldg., Philadelphia, Pa.
 Capitol Brass Works, Detroit, Mich.
 Clum & Atkinson ("Plata," White Brass), Rochester, N. Y.
 Donovan, P. J., Brass Foundry Co., Bridgeport, Conn.

Franklin, H. H., Mfg. Co., Syracuse, N. Y.
 Hackett Bros., Detroit, Mich.
 Hardoin, N., Detroit, Mich.
 Legler-Ellerman Co., Dayton, O.
LUMEN BEARING CO., Buffalo, N. Y. (See adv. index, end of book)

Ohio Brass Co., Mansfield, Ohio.
 Pevey Bros., Lowell, Mass.
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Reeves, Paul S. & Son, 1415 Catharine, Phila., Pa.

Riverside Metal Co., Riverside, N. J.
 Vanduzen, E. W. Co., Cincinnati, Ohio.
 Van Wagner, E. B. Mfg. Co., Syracuse N. Y.
 Veeder Mfg. Co., Hartford, Conn.
WHEELER, CHARLES CHILD, 113 B'way, New York. (See adv. index, end of book)

Castings (Zinc)

Anderson, A. H., 52 N Ann, Chicago, Ill.
 Gerock Bros. Mfg. Co., 1252 Manchester av. St. Louis, Mo.
 Liberty Brass Works, 303 W. Lombard, Baltimore, Md.
 Reeves, Paul S., & Son, 1415 Catharine, Phila., Pa.
 Syracuse Aluminum & Bronze Co., Syracuse, N. Y.
 Van Duzen, E. W. Co., 428 E 2d, Cincinnati, Ohio.
WHEELER, CHARLES CHILD, 113 B'way, New York. (See adv. index, end of book)

Catch Basins & Covers

(See Basins, Catch; also Sewer Inlets)

Catchers (Grass)

F. & N. Lawn Mower Co. ("F. & N."), Richmond, Ind.
 Hasseries, Carl ("The Leader"), Central & Woodland av., Cleveland, O.
 Specialty Mfg. Co. ("Leader," "Easy Emptying"), St. Anthony Park, Minn.
 Supplee Hardware Co. ("Braun" Penna. Golf), 503 Market, Phila., Pa.
WHITMAN & BARNES MFG. CO. ("Diamond"), Chicago, Ill. (See adv. index & branch offices, end of book)

Catchers (Mail)

Columbian Mail Crane Co. ("Columbian" Steel), 898 Factory, Columbus, O.
 Taylor & Bogges Foundry Co., Cleveland, O.

Catches (Cupboard)

American Hardware Mfg. Co., Ottawa, Ill.
 Brass Goods Mfg. Co., Nevlin, cor. Union, Brooklyn, N. Y.
 Champion Safety Lock Co., Geneva, O.
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Hunt, Helm, Ferris & Co. ("Star" Cupboard, Screen Door, etc.), Harvard, Ill.
 Mallory, Wheeler Co., New Haven, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn.
 Shelby Spring Hinge Co. (Steel, Brass & Bronze, Polished), Shelby, O.
 Yale & Towne Mfg. Co., 9 Murray, New York

Catches (Door)

American Hardware Mfg. Co. ("American," for Screen & Cabinet Doors), Ottawa, Ill.
 Automatic Door Catch Co, 218 E 57th, Chicago, Ill.
 Brainerd Mfg. Co., Despatch, N. Y.
 Cheney, S. & Son (Barn), Manlius, N. Y.
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Grand Rapids Brass Co., Grand Rapids, Mich.
 Onward Mfg. Co. (Automatic), Menasha, Wis.
 Peck, Stow & Wilcox Co., 27 Murray, New York
 Reading Hardware Co. (Barn), Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Scofield & Co., Freeport, Ill.
 Stearns, E. C. & Co. (Barn Door), Syracuse, N. Y.
 Watrous Mfg. Co. (Automatic), Des Moines, Ia.
 Williams, A. C., Ravenna, O.
 Yale & Towne Mfg. Co. (Screen, etc.), 9 Murray, New York

Catches (Elbow)

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Catches (End Gate)

Sovereign, C. E. Co., Rockford, Ill.

Catches (Transom)

Champion Safety Lock Co., Geneva, O.
 Peck, Stow & Wilcox, 27 Murray, New York
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Yale & Towne Mfg. Co., Stamford, Conn.

Catches (Window)

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Catchers & Retrievers (Trolley)

Central Laboratory Supply Co., Lafayette, Ind.
 Harn Sand Box Co. ("Trojan"), Troy, N. Y.
 Lord Electric Co. ("Earl"), 213 W. 40th, New York
 Milloy Electric Co., Bucyrus, O.
 Ridlon, Frank Co., 251 A, Boston, Mass.
 Shanahan Trolley Specialty Co., Little Falls, N. Y.
 Stearns, E. C., & Co. ("Milloy"), Syracuse, N. Y.
 Trolley Supply Co. ("American," "Knutson," "Peerless"), Canton, O.
 Wilson Trolley Catcher Co. (Sole U. S. Agents for the "Wilson"), Boston, Mass.
 Wilson & Co. (Sole Mfrs. of the "Wilson"), 430 Kent av., Brooklyn, N. Y.

Caustic Soda

Acker Process Co., Niagara Falls, N. Y.
 American Chemical Co. (Also Powdered), Cincinnati, O.
 Castner Electrolytic Alka Co., Niagara Falls, N. Y.
 Clark, Fred. G. Co. (For Wholesale Trade Only), Cleveland, O.
 Columbia Chemical Co., Pittsburgh, Pa.
 Works:—Barberton, O.
 General Chemical Co., 25 Broad, New York
 Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Mathieson Alkali Works ("Eagle" & "Thistle" Brands, 70, 72, 74 & 76 per cent.), Providence, R. I., & Saltville, Va.
 Mechling Bros. Mfg. Co. (Powdered), Philadelphia, Pa.
 Michigan Alkali Co., Wyandotte, Mich.
 Penna Salt Mfg. Co., 115 Chestnut, Philadelphia, Pa.
 Roessler & Hasslacher Chemical Co., 100 William, New York
 Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.
 Tennant's, C. Sons & Co. (Importers), 76 William, New York
 Thomsen Chemical Co., Race & Winder, Baltimore, Md.
 Wiardo, Jno. C. & Co., Brooklyn, N. Y.
 Wing & Evans, 22 William, New York

*Ceiling Board

BEAVER MFG. CO., THE, 228 Perry st., Buffalo, N. Y. (See adv. index, end of book)

BEAVER BOARD
 The Modern Wall & Ceiling Material
 Takes Place of Both Lath and Plaster



*Ceilings (Concrete Fireproof)

AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)

Ceilings ("Gypsite" Tile)

Detroit Fireproofing Tile Co. (Suspended from Wood Joist or "I" Beams), Pittsburgh, Pa.

Ceilings (Marbleized Glass)

Denzi & Phillips, 24 Dey, New York
 Federal Tile Co. (Glass), 131 W 24th, New York
 Manhattan Glass Tile Co. (Glass Tile), 218 7th av., New York
 Mansfield & Co., 158 Chambers, New York

Ceilings (Marbleized Steel)

Brooklyn Metal Ceiling Co., 283-287 Greene av., Brooklyn, N. Y.

Ceilings (Sheet Steel)

Acme Sheet Metal Co., Martins Ferry, O.
 American Metal Ceiling Co., 215 Montague, Brooklyn, N. Y.
 American Metal Stamping Co. (Light Balancing Selective Diffuser Ceilings), 20 E. Herman, Gtn., Phila., Pa.
 AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
 BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
 Brooklyn Metal Ceiling Co., 283-287 Greene av., Brooklyn, N. Y.
 BURTON, W. J. CO., 161 W. Congress, Detroit, Mich. (See adv. opp. page 203)
 Cambridge Roofing Co., Cambridge, O.
 Canton Art Metal Co., Canton, O.
 CANTON MFG. CO., Canton, O. (See adv. index, end of book)
 Dickelman Mfg. Co., Forest, O.
 EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)
 Eller Mfg. Co., Canton, O.
 Foster, Wm. & Sons Co., Springfield, Ill.
 FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. opp. page 203)

Kanneberg Roofing & Ceiling Co., Canton, O.
 Kelghley, S., Metal Ceiling & Mfg. Co., 824 Locust, Pittsburgh, Pa.

KINNEAR & GAGER MFG. CO., Columbus, O. Eastern Office & Warehouse, 125 Broad, Boston, Mass. (See adv. index, end of book)

MILWAUKEE ARTISTIC METAL CEILING CO. ("Invisible Joint"), Milwaukee, Wis. (See adv. index & branch offices, end of book)

MILWAUKEE CORRUGATING CO. ("Invisible Joint"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Moeschl-Edwards Corrugating Co., Covington, Ky.

NEW YORK METAL CEILING CO., 537-541 W 24th, New York. (See adv. opp. page 203)

Norman, W. F., Sheet Metal Mfg. Co., Nevada, Mo.

Northrop, Coburn & Dodge Co., 40 Cherry, New York

Penn Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Phila., Pa., & 559 Atlantic av., Boston, Mass.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Schoedinger, F. O. ("Invincible," "Lock Joint"), 146 No. 3rd, Columbus, Ohio

Sheet Metal Mfg. Co., Niles, O.

Steel Roofing & Stamping Works (W. F. Hansen, Prop.), Des Moines, Iowa

Sykes Steel Roofing Co., 112 W. 19th pl., Chicago, Ill.

Tiffin Art Metal Co., Tiffin, O.

VALLEY CORNICE & SLATE CO. (Ltd.), 314-318 N Hamilton, Saginaw, W. S., Mich. (See adv. index, end of book)

Warren Steel Co., Warren, Ill.

Watson Jas. H. Co. (Inc.), Bradley, Ill.

Wheeling Corrugating Co., Wheeling, W. Va.

Wheeling Metal & Mfg. Co., Wheeling, W. Va.

Willis Mfg. Co., Galesburg, Ill.

Ceilings (Sheet Steel, Light Diffuser)

American Metal Stamping Co., 20 E. Herman, Gtn., Phila., Pa.

Cellar Drainers (Automatic)

Braender, Philip, 143 W 125th, New York
 D'Este, Julian Co., 24 Canal, Boston, Mass.
 Erwin & Co., 56 Dearborn, Chicago, Ill.

Friedenwald Bros., 216 N Holliday, Baltimore, Md.

Kemp, C. M. Mfg. Co. ("Climax"), Baltimore, Md.

Lawler Regulator Co. ("Lawler's"), 473 W B'way, New York

Sherwood Mfg. Co. (Water Pressure), Buffalo, N. Y.

THOMAS & SMITH (Inc.) ("Economy"), 17 S Carpenter, Chicago, Ill., & 288 Hudson, New York. (See adv. index, end of book)

Celluloid, Fiberloid & Pyralin Mfrs.

Arlington Co. (Pyralin), 475 B'way, New York.

Celluloid Co. ("Celluloid"), 30 Washington pl., New York

Fiberloid Co. ("Fiberloid"), 7 Waverly pl., New York

Cement Bins (Steel)

(See Bins, Steel)

*Cement Castings (Plain & Ornamental)

DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)

SEIFERT, FRANK A. PLASTIC Relief Co., 2621-2627 Dayton, St. Louis, Mo. (See adv. index, end of book)

Cement Dealers

(See Masons' & Builders' Materials)

Cement Importers

(See also Cement Importers, Belgian Portland; Cement Importers, Danish Portland; Cement Importers, English Portland; Cement Importers, French Importers; Cement Importers, German Portland; Cement Importers, Keene's; Cement Importers, Manheimer Portland; Cement Manufacturers; Cements; Hydraulic; Cements, Keene's American; Cements, Portland; Cements, Rosendale)

(For Cement Dealers See Masons' & Builders' Materials)

Alsen's American Portland Cement Works ("Alsen"), 45 B'way, New York

AMERICAN ART MARBLE CO. ("Victorla," "Keene's"), 609 N American, Phila., Pa. (See adv. index, end of book)

Balfour, Guthrie & Co. ("Condor," "K. B. & S.," "Anna" & "Falcon"), San Francisco, Cal.

Berry & Ferguson, 159 Devonshire, Boston, Mass.

Carolina Portland Cement Co., Charleston, S. C.
 Ebert, Morris ("Mannheimer" Portland Cement), 119 S 4th, Phila., Pa.

FLEMING & CO., 153 B'way New York. (See adv. index, end of book)

Fowler & McVitie, Galveston, Tex.

FRENCH, SAMUEL H. & CO. (Meier's Non-Staining), 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)

Girvin & Eyre (Hilton's English), 426 California, San Francisco, Cal.

Grace, W. R., & Co. (German & Belgian), San Francisco, Cal.

Haebler & Co., 79 Wall, New York

Hammill & Gillespie, 240 Front, New York

Hanley, Andrew Co., Savannah, Ga.

Hillier, Alfred Co., 534 Magazine, New Orleans, La.

Kelley Island Lime & Transport Co. ("Lagerdorfer"), Cleveland, O.

McBRIDE, C. E. ("Meier's" Non-staining), 151 3d, Louisville, Ky.

McKallip & Co., Pittsburgh, Pa.

Marquardt, H. & Co. ("Stettiner S" & "Germania"), 35 S William, New York

Maryland Lime & Cement Co., Carroll bldg., Baltimore, Md.

Meng, Anthony & Co. ("Dagger" Brand), 109 S Front, Phila., Pa.

Miller, Clifford L. & Co. ("Victorla Keene's"), 110 E 23d, New York

Meyer, Wilson & Co., 210 Battery, San Francisco, Cal.

Mosie, H. & Co., Galveston, Tex.

NON-STAINING CEMENT CO. ("Lafarge" Stainless Portland), 156 5th av., New York. (See adv. index, end of book)

Parr, Wm. & Co., Galveston, Tex.

Southwestern Lime & Cement Co. ("Black Cross"), Charleston, S. C.

Sparrow, Jno. E. ("White's Globe," "Hemmoor" & "Misburger"), 15 Whitehall, New York

Spreckles Bros. Commercial Co., Los Angeles, Cal.

Thiele, E. ("Star," "Henry," "Royal Tln," "Royal Crown," "Dyckerhoff," "Hern," "Hilton" & "B. S. & Co."), 99 John, New York

Waldo Bros., 102 Milk, Boston, Mass.

Cement Importers (Belgian Portland)

(See also Cement Importers)

Balfour, Guthrie & Co. ("Giant"), San Francisco, Cal.

Hammill & Gillespie ("Royal Cross"), 240 Front, New York

Hanley, Andrew Co. ("Gibbs & N. S."), Savannah, Ga.

Maryland Lime & Cement Co., Carroll bldg., Baltimore, Md.

Meng, Anthony ("Dagger" Brand), 109 S Front, Phila., Pa.

Parr, Wm. & Co., Galveston, Tex.

South Eastern Lime & Cement Co. ("Black-cross"), Charleston, S. C.

Thiele, E. ("Royal Crown"), 99 John, New York

Cement Importers (English Portland)

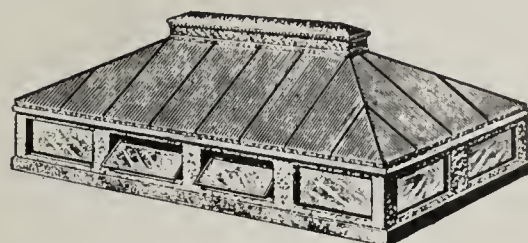
(See also Cement Importers)

Balfour, Guthrie & Co., San Francisco, Cal.

Spreckles, J. D. & Bro. Co. ("Gillingham" & "White Bros."), San Francisco, Cal.

Thiele, E. ("Hilton" & "B. S. Co.'s"), 99 John, New York

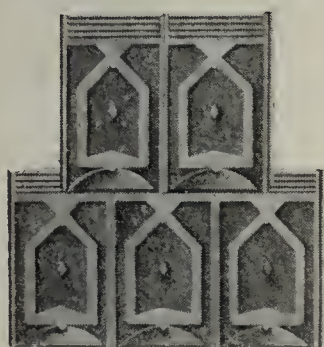
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ARE NOW BEING EXPLOITED BY MANY
MAKERS, ASK HENDRICKS.

REGISTER

*Cement Importers (French Portland)

NON-STAINING CEMENT CO. ("La-farge" Non-Staining), 156 5th av, New York. (See adv. index, end of book)

Cement Importers (German Portland)

(See also Cement Importers)

Alsen's American Portland Cement Works ("Alsen"), 45 B'way, New York
Ebert, Morris ("Mannheimer"), 119 S 4th, Phila., Pa.
Hamill & Gillespie ("Bismarck"), 240 Front, New York
Hanley, Andrew, Co., Savannah, Ga.
Hunkins-Willis Lime & Cement Co., 18th & Austin, St. Louis, Mo.
Marquardt & Co. ("Stettiner's"), 35 S William, New York
South Eastern Lime & Cement Co., Charleston, S. C.
Thiele, E. (Dyckerhoff, Heyn & Star, Stettin), 99 John, New York

Cement Importers (Mannheimer Portland)

Ebert, Morris, 119 S 4th, Phila., Pa.

Cement Mfrs.

(All firms under this heading, unless otherwise marked, manufacture "Portland" Cement. One Star (*) Indicates Hydraulic or Natural Cement Manufacturers. Two Stars (**) indicate "Rosendale" Cement Manufacturers)

(Trade Names or titles of Identification follow Names of firms in all cases where we have been able to secure them)

(For Cement Dealers See Masons' & Builders' Materials)

ALABAMA.

BIRMINGHAM—Carolina Portland Cement Co.
*Southern Cement Co. ("Alabama" Brand, "Puzzolan" & "Magnolia" Brands)
DEMOPOLIS—Alabama Portland Cement Co. ("Red Diamond" Brand)
LEEDS—Standard Portland Cement Co. ("Standard" Brand). (See Charleston, S. C.)

CALIFORNIA.

CEMENT—Pacific Portland Cement Co. ("Golden Gate"). (See San Francisco)
COLTON—California Portland Cement Co. ("Colton" Brand). (See Los Angeles)
DAVENPORT—Santa Cruz Portland Cement Co. ("Standard" Brand)
LOS ANGELES—California Portland Cement Co. ("Colton" Brand)
NAPA JUNCTION—Standard Portland Cement Corp'n ("Standard" Brand). (See San Francisco)
SAN FRANCISCO—*Cowell, Henry Lime & Cement Co.
Cowell Portland Cement Co., Works: Cowell, Cal.
Pacific Portland Cement Co. ("Golden San Juan Portland Cement Co. Gate")
Santa Cruz Portland Cement Co. ("Standard" Brand), Works: Davenport, Cal.
Standard Portland Cement Corp'n
SAN JUAN—San Juan Portland Cement Co. (See San Francisco)

COLORADO.

DENVER—Portland Cement Co. ("Ideal" Brand), Colorado bldg; Works: Portland, Colo.
NEW CASTLE—New Castle Portland Cement Co.

GEORGIA.

CEMENT—*Howard Hydraulic Cement Co. ("Red Keystone" Brand)
ROCKMART—Southern States Portland Cement Co. ("Southern States" Brand)
ROSSVILLE—*Chickamauga Cement Co. ("New South" Brand)

ILLINOIS.

CHICAGO—Chicago Portland Cement Co. ("Chicago AA" Brand), Chicago Stock Exch bldg; Works: Oglesby, Ill.
German-American Portland Cement Works ("Owl" Brand, Marquette bldg; Works: La Salle, Ill.
Co. ("Universal Portland Cement Co. ("Universal" Portland), Commercial B'k bldg. Works, South Chicago, Ill.; Buffington, Ind., & Universal, Pa. (See adv. index, end of book)
DIXON—Sandusky Portland Cement Co. ("Medusa" Brand). (See Sandusky, O.)
LA SALLE—German-American Portland Cement Works ("Owl" Brand). (See Chicago, Ill.)
Marquette Cement Mfg. Co. ("Marquette" Brand)
OGLESBY—Chicago Portland Cement Co. ("Chicago AA" Brand). (See Chicago, Ill.)
SOUTH CHICAGO—UNIVERSAL PORTLAND CEMENT Co. Main Office: Chicago, Ill. (See adv. index, end of book)
UTICA—*Illinois Hydraulic Cement Mfg. Co.
*Utica Cement Mfg. Co. ("Black Ball" Brand)
*Utica Hydraulic Cement Co. ("Clark" Brand)

INDIANA.

BEDFORD—United States Cement Co. ("Bedford" Portland)
BUFFINGTON—UNIVERSAL PORTLAND Cement Co. Main Office* Chicago, Ill. (See adv. index, end of book)
CHARLESTOWN—*Indiana Cement Co. ("Lion" Brand, Hydraulic)
JEFFERSONVILLE—*Kentucky & Indiana Cement Co.
KIMMEL—Art Portland Cement Co. ("Parthenon," White Portland)
MITCHELL—Lehigh Portland Cement Co. ("Lehigh" Brand). (See Allentown, Pa.)
NEW ALBANY—*New Albany Cement Co. ("Crown" Brand, Hydraulic)
SELLERSBURG—*Clark County Cement Co. ("Hammer & Trowel" Brand, Hydraulic)
*Golden Rule Cement Co. ("Arm & Hammer" Brand, Hydraulic)
*Hoosier Cement Co. ("Hod & Shovel" Brand, Hydraulic)
*Louisville Cement Co. (Speeds "Star" Brand, Hydraulic; "Horseshoe" & "S. S." Brands). (See Louisville, Ky.)
*Union Cement & Lime Co. (See Louisville, Ky.)
*United States Cement Co. ("Flag" Brand, Hydraulic)
STROH—Wabash Portland Cement Co. ("Wabash" Brand). (See Detroit, Mich.)
SYRACUSE—Sandusky Portland Cement Co. ("Medusa" Brand). (See Sandusky, O.)
WATSON—*Speed, J. B. & Co. (See Louisville, Ky.)

IOWA.

DES MOINES—Iowa Portland Cement Co.
HARVEY—Hawkeye Portland Cement Co. (See Kansas City, Mo.)
MASON CITY—Northwestern States Portland Cement Co. ("Northwestern" Brand)

KANSAS.

ALTOONA—Altoona Portland Cement Co. (See Kansas City, Mo.)
BONNER SPRINGS—Bonner Portland Cement Co. ("Bonner" Brand). (See Kansas City, Mo.)
CHANUTE—Ash Grove Lime & Portland Cement Co. ("Ash Grove" Brand). (See Kansas City, Mo.)
Chanute Cement & Clay Product Co. ("Bronson" Brand). (See Akron, O.)
FORT SCOTT—*Fort Scott Hydraulic Cement Co. ("Four Star" Brand, Hydraulic)
*Kansas City & Fort Scott Cement Co. ("Four Star" Brand). (See Kansas City, Mo.)
FREDONIA—Fredonia Portland Cement Co. ("Fredonia" Brand). (See Kansas City, Mo.)
HUMBOLDT—Humboldt Portland Cement Co.
INDEPENDENCE—Independence Kansas Portland Cement Co.
Western States Portland Cement Co. ("Cowboy" Brand)

IOLA—Iola Portland Cement Co. ("Iola" Brand)
United Kansas Portland Cement Co. ("Sunflower" & "Indian" Brands)
MILDRED—Great Western Portland Cement Co. (See Kansas City, Mo.)
YOCEMENTO—United States Portland Cement Co. ("U. S." Brand). (See Kansas City, Mo.)

KENTUCKY.

ASHLAND—Ashland Iron & Mining Co. (Slag, Portland)
KOSMOSDALE—Kosmos Portland Cement Co. ("Kosmos" Brand)
LOUISVILLE—*Louisville Cement Co. (Speed "Star" Brand, Hydraulic; "Horseshoe" Brand, of Portland, & "S. S." Brand); Works: Speeds, Ind.; P. O. Sellersburg, Ind.
*Speed, J. B. & Co., Works: Watson, Ind.
*Union Cement & Lime Co. ("Black Diamond" & "Anchor" Brands), Hydraulic)

MARYLAND.

BALTIMORE—Maryland Portland Cement Co.
CUMBERLAND—*Cumberland & Potomac Cement Co.
*Cumberland Hydraulic Cement & Mfg. Co. ("B. & H." Brand, Hydraulic)
HAGERSTOWN—Maryland Portland Cement Co. (See Baltimore, Md.)

MASSACHUSETTS.

BOSTON—FISKE & COMPANY (Inc.) (Jobbers in Portland, Rosendale, etc.), 25 Arch. (See adv. index, end of book)
CLAYTON—Berkshire White Portland Cement Co. (See New York City)
Huron Portland Cement Co. ("Huron" Brand). (See Detroit, Mich.)

MICHIGAN.

ALPENA—Alpena Portland Cement Co. ("Alpena" Brand)
BAY CITY—Hecla Company ("Hecla" Brand). (See Detroit, Mich.)
BELLEVUE—Burt Portland Cement Co. ("Burt" Brand)
BRONSON—Chanute Cement & Clay Product Co. ("Bronson" Brand). (See Akron, O.)
CEMENT CITY—Peninsular Portland Cement Co. ("Peninsular" Brand). (See Jackson, Mich.)
CHARLEVOIX—Great Lakes Portland Cement Co. ("Great North" Brand)
COLDWATER—Wolverine Portland Cement Co. ("Wolverine" Brand)
DETROIT—Hecla Company ("Hecla" Brand), Works: Bay City, Mich.
Huron Portland Cement Co. ("Huron" Brand), Works: Alpena, Mich.
Wabash Portland Cement Co. ("Wabash" Brand), Union Trust bldg; Works: Stroh, Ind.
Wyandotte Portland Cement Co. ("Wyandotte" Brand), Works: Wyandotte, Mich.
ELK RAPIDS—Elk Cement & Lime Co. ("Elk" Brand)

FARWELL Farwell Portland Cement Co.
FENTON—Egyptian Portland Cement Co. ("Egyptian" Brand)
GRAND RAPIDS—Newaygo Portland Cement Co. ("Newaygo" & "Gibraltar" Brands)
JACKSON—Northwestern States Portland Cement Co. ("Northwestern" Brand)
Peninsular Portland Cement Co. ("Peninsular" Brand), Works: Cement City, Mich.
JONESVILLE—Omega Portland Cement Co. ("Omega" Brand), Works: Mosberville, Mich.
NEWAYGO—Newaygo Portland Cement Co. ("Newaygo" & "Gibraltar" Brands). (See Grand Rapids, Mich.)
UNION CITY—Peerless Portland Cement Co. ("Peerless" Brand)
WYANDOTTE—Wyandotte Portland Cement Co. ("Wyandotte" Brand). (See Detroit, Mich.)

MINNESOTA.

AUSTIN—*Austin Cement Works ("Austin" Brand, Hydraulic) (Fowler & Pay)
MANKATO—*Mankato Cement Works ("Mankato" & "U. S. G." Brands)
MINNEAPOLIS—UNIVERSAL PORTLAND CEMENT Co. ("Universal" Brand), Security Bank bldg; Main Office: Chicago, Ill. (See adv. index, end of book)

MISSOURI.

CEMENT CITY—Kansas City Portland Cement Co. ("K. O." Brand). (See Kansas City, Mo.)

HANNIBAL—**ATLAS PORTLAND CEMENT CO.**; Office: New York City. (See adv. index, end of book)

KANSAS CITY—Altoona Portland Cement Co., Works: Altoona, Kan.
Ash Grove Lime & Portland Cement Co. ("Ash Grove" Brand), Works: Chanute, Kan.
Bonner Portland Cement Co. ("Bonner" & "Caffrey" Brands), Works: Bonner Springs, Kan.
Dewey Portland Cement Co. ("Dewey" Brand), Works: Dewey, Okla.
*Fort Scott Hydraulic Cement Co. ("Four Star" Brand, Hydraulic), 121 W 8th
Great Western Portland Cement Co., Works: Mildred, Kan.
*Halliwell Cement Co., 312 E 9th
Hawkeye Portland Cement Co., Works: Harvey, Iowa
Kansas City Portland Cement Co. ("K. C." Brand)
*Kansas City & Fort Scott Cement Co. ("Double Star" Brand, Hydraulic), 121 W 8th
United States Portland Cement Co. ("U. S." Brand), Works: Yocemento, Kan.
ST. LOUIS—Continental Portland Cement Co., Syndicate Trust bldg; Works: Continental, Mo.
Iola Portland Cement Co. ("Iola" Brand), Sales Office: Lincoln Trust bldg; Main Office & Works: Iola, Kan.
St. Louis Portland Cement Co. ("Red Ring" Brand), Works: Prospect Hill, Mo.
UNIVERSAL PORTLAND CEMENT CO. ("Universal" Portland), Chemical Nat'l B'k bldg. Main Office, Chicago, Ill. (See adv. index, end of book)

NEW JERSEY.

ALPHA—Alpha Portland Cement Co. ("Alpha" Brand). (See Easton, Pa.)

NEWARK—**Newark Lime & Cement Mfg. Co. ("Newark" & "Rosendale" Brands)

STEWARTVILLE—Edison Portland Cement Co. ("Edison" Brand)

VULCANITE—Vulcanite Portland Cement Co. ("Vulcanite" Brand); P. O. at Springtown, N. J.; Main Office: Phila., Pa.

NEW YORK.

AKRON—*Cummings Cement Co. ("Roman" Asbestic, "Obelsk" Hydraulic & "Storm King" Brands)

ALBANY—*Helderberg Cement Co. ("Helderberg" Brand)

ALSEN—Alsen's American Portland Cement Co. ("Alsen" Brand). (See New York City)

BINNEWATER—**Consolidated Rosendale Cement Co. ("Brooklyn Bridge" Brand). (See New York City)

BUFFALO—*Newman, H. L. & W. C. ("Akron Star" Brand), 141 Erie

CEMENTON—Catskill Cement Co. ("Catskill" & "Trowel" Brands)

GLENS FALLS—Alpha Portland Cement Co. ("Iron Clad" & "Adirondack" Brands). (See Easton, Pa.)

HOWES CAVE—Helderberg Cement Co. ("Helderberg" Brand)

HUDSON—Hudson Portland Cement Co. ("Hudson" Brand)

ITHACA—Cayuga Lake Cement Co. ("Cayuga" Brand)

KINGSTON—**Consolidated Rosendale Cement Co. (See New York City)

NEW YORK—Alsen's American Portland Cement Works, 45 B'way

ATLAS PORTLAND CEMENT CO. ("Atlas"), 30 Broad; Works: Coplay, Pa.; Northampton, Pa., & Hannibal, Mo. (See adv. index, end of book)

Berkshire White Portland Cement Co. (White Portland, for Decorative Purposes), 21 Park Row. Works: Clay-ton, Mass.

**Consolidated Rosendale Cement Co. ("Brooklyn Bridge" Brand), 50 Church; Works: Binnewater, N. Y.

FISKE & COMPANY (Inc.) (Jobbers in Portland, Rosendale, etc.), Flat Iron bldg. (See adv. index, end of book)

Lawrence Cement Co. ("Dragon," "Hoffman"), 1 B'way; Works: Selgfried, Pa.

*New York Cement Co. ("Superior" Brand), 52 B'way

NON-STAINING CEMENT CO. ("Lafarge" Non-Staining), 156 5th av. (See adv. index, end of book)

Pennsylvania Cement Co. ("Pennsylvania" Brand), 26 Cortlandt; Works: Bath, Pa.

Seaboard Portland Cement Co., 225 Cortlandt; Works: Alsen, N. Y.

Virginia Portland Cement Co. ("Old Dominion" Brand), 5 Nassau; Works: Fordwick, Va.

WARNER—Empire Portland Cement Co. ("Empire" Brand)

WAYLAND—Millen, Thos. Co. ("Wayland" Brand)

NORTH DAKOTA.

GRAND FORKS—Northern Cement & Plaster Co. ("Pembina" Brand, Portland & "Northern" Brand, Hydraulic)

OHIO.

AKRON—Chanute Cement & Clay Product Co. ("Bronson" Brand), Works: Chanute, Kan., & Bronson, Mich.

BELLEFONTAINE—Buckeye Portland Cement Co. ("Buckeye" Brand), Works: Harper, Ohio

CASTALIA—Castalia Portland Cement Co. ("Tiger" Brand). (See Pittsburg, Pa.)

CINCINNATI—Superior Portland Cement Co. ("Superior"). Works: Superior, O.

CLEVELAND—Diamond Portland Cement Co. ("Diamond" Brand), Works: Middle Branch, O.

Stewart Iron Co. (Made from Furnace Slag) (See Sharon, Pa.)

Struthers Furnace Co. ("Struthers"), ("Superior" Brand). (See Cincinnati, O.)

IRONTON—Ironton Portland Cement Co. ("Limestone" Brand)

LISBON—*Ohio Cement Co.

MIDDLE BRANCH—Diamond Portland Cement Co. ("Diamond" Brand). (See Cleveland, O.)

PORTSMOUTH—York Portland Cement Co. ("Setter" Brand)

RUSHSVLVANIA—Union Portland Cement Co. ("Alta" Brand)

SANDUSKY—Sandusky Portland Cement Co. ("Medusa" Brand), Works: York, Pa.; Syracuse, Ind., & Dixon, Ill.

STRUTHERS—Struthers Furnace Co. (Struthers Portland)

SUPERIOR—Superior Portland Cement Co. ("Superior" Brand). (See Cincinnati, O.)

TOLEDO—Woodville White Lime Co.

WELLSTON—Alma Cement Co. ("Alma" Brand)

Lehigh Portland Cement Co. ("Lehigh" Brand). (See Allentown, Pa.)

YOUNGSTOWN—Brier Hill Iron & Coal Co. ("Brier Hill" & "Puzzolan" Brands)

OKLAHOMA

ADA—Oklahoma Portland Cement Co. ("O. K." Brand)

DEWEY—Dewey Portland Cement Co. ("Dewey" Brand)

PENNSYLVANIA.

ALLENTOWN—Allentown Portland Cement Co. Lehigh Portland Cement Co. ("Lehigh" Brand), Works: Ormand, Pa.; West Coplay, Pa.; Fogelsville, Pa.; New Castle, Pa.; Wellston, O., & Mitchell, Ind.

Penn-Allen Portland Cement Co. ("Penn-Allen" Brand), Works: Nazareth, Pa.

BATH—Bath Portland Cement Co. ("Bath" Brand)

Pennsylvania Cement Co. ("Pennsylvania" Brand). (See New York City)

CEMENTON—Whitehall Portland Cement Co. ("Whitehall" Brand). (See Phila., Pa.)

COPLAY—**ATLAS PORTLAND CEMENT CO.** ("Atlas" Brand), Office: New York City. (See adv. index, end of book)

Coplay Cement Mfg. Co. ("Saylor" Brand). (See Phila., Pa.)

EASTON—Alpha Portland Cement Co. ("Alpha" Brand), Works: Alpha, N. J., & Martins Creek, Pa.

Martins Creek Portland Cement Co., Works: Martins Creek, Pa.

EGYPT—*American Cement Co. ("Giant," "Egypt" & "Columbia"). (See Phila., Pa.)

MARTINS CREEK—Alpha Portland Cement Co. ("Alpha" Brand). (See Easton, Pa.)

MOLLTOWN—Vindex Portland Cement Co. ("Vindex" Brand)

NAZARETH—Atlantic Portland Cement Co. ("Northampton" Brand)

Dexter Portland Cement Co. ("Dexter" Brand)

Nazareth Cement Co. ("Nazareth" Brand)

Penn-Allen Portland Cement Co. ("Penn-Allen" Brand). (See Allentown, Pa.)

*Phoenix Cement Co. ("Clover Leaf" & "Phoenix" Brands, of Portland, & "I. X. L." & "Rosendale" Brands)

NEW CASTLE—Lehigh Portland Cement Co. ("Lehigh Brand). (See Allentown, Pa.)

New Castle Portland Cement Co.

NORTHAMPTON—**ATLAS PORTLAND CEMENT CO.** ("Atlas" Brand). (See New York City). (See adv. index, end of book)

PHILADELPHIA—American Cement Co. ("Giant," "Egypt" & "Columbia" Brands), Penna bldg; Works: Egypt, Pa., & Jordan, N. Y.

Bonneville Portland Cement Co. ("Star" Brand), Land Title bldg; Works: Siegfrieds, Pa.

Buckhorn Portland Cement Co. ("Buckhorn" Brand), North American bldg; Works: Mannheim, W. Va.

Coplay Cement Mfg. Co. ("Saylor" Brand), Penna bldg; Works: Coplay, Pa.

***FRENCH, SAMUEL H. & CO. (Sole Agents for Dexter Portland), 4th & Cal-lowhill. (See adv. index, end of book)**

Lawrence Cement Co. ("Dragon" Brand), Sales Office: Harrison bldg. (See New York City)

Nazareth Cement Co., Sales Office: Land Title bldg; Office & Works: Nazareth, Pa.

Phoenix Cement Co. ("Phoenix" & "Clover Leaf" Brands), Real Estate Trust bldg; Office & Works: Nazareth, Pa.

Vulcanite Portland Cement Co. ("Vulcanite" Brand), Land Title bldg; Works: Vulcanite, N. J.

Whitehall Portland Cement Co. ("Whitehall" Brand), Land Title bldg; Works: Clementon, Pa.

PITTSBURG—Castalia Portland Cement Co. ("Tiger" Brand), Works: Castalia, O.

McKallip & Co. (Jobbers), 2835 Small-man

UNIVERSAL PORTLAND CEMENT CO. ("Universal" Portland), Frick bldg. Main Office: Chicago, Ill. (See adv. index, end of book)

SHARON—Stewart Iron Co. (Made from Furnace Slag)

SIEGFRIED—Bonneville Portland Cement Co. ("Star" Brand). (See Phila., Pa.)

Lawrence Cement Co. ("Dragon" Brand). (See New York City)

STOCKERTOWN—Northampton Portland Cement Co. ("Northampton" Brand)

UNIVERSAL—UNIVERSAL PORTLAND CEMENT CO. Main Office: Chicago, Ill. (See adv. index, end of book)

WAMPUM—Crescent Portland Cement Co. ("Crescent" Brand)

YORK—Sandusky Portland Cement Co. ("Medusa" Brand). (See Sandusky, O.)

SOUTH CAROLINA.

CHARLESTON—Carolina Portland Cement Co. Standard Portland Cement Co. ("Standard" Brand), Works: Leeds, Ala.

SOUTH DAKOTA.

YANKTON—Western Portland Cement Co. ("Yankton" Brand). (See Milwaukee, Wis.)

TENNESSEE.

CHATTANOOGA—*Chickamauga Cement Co. ("New South" Brand). (See Rossville, Ga.)

Dixie Portland Cement Co. ("Royal" Brand), Works: Richard City, Tenn.

*Howard Hydraulic Cement Co. ("Red Keystone" Brand), Works: Cement, Ga.

KNOXVILLE—Knoxville Cement Works

NASHVILLE—Tennessee Cement & Lime Co.

RICHARD CITY—Dixie Portland Cement Co. ("Royal" Brand). (See Chattanooga, Tenn.)

TEXAS.

DALLAS—Iola Portland Cement Co. (of Tex.), Works: Cement, Tex.

Southwestern States Portland Cement Co.

Texas Portland Cement Co. ("Lone Star" Brand), Works: Cement, Tex.

SAN ANTONIO—*Alamo Cement Co. ("Alamo" Brand)



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Marble
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and Exterior
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CHICAGO — PITTSBURG

UTAH.

OGDEN—Three Forks Portland Cement Co.
Union Portland Cement Co. ("Red Devil"
Brand)
SALT LAKE CITY—Portland Cement Co. (of
Utah) ("Red Diamond" Brand)

VIRGINIA.

FORDWICK—Virginia Portland Cement Co.
("Old Dominion" Brand). (See New York
City)
LOCHER—James River Cement Works (Inc.)
("James River" Brand, Hydraulic)

WASHINGTON.

BAKER—Superior Portland Cement Co.
SEATTLE—Washington Portland Cement Co.
("Washington" Brand), Works: Con-
crete, Wash.

WEST VIRGINIA.

MANHEIM—Buckhorn Portland Cement Co.
("Buckhorn" Brand).. (See Phila., Pa.)

WISCONSIN.

MILWAUKEE—Milwaukee Cement Co. ("Key-
Stone" Brand, Hydraulic), Plankinton
bldg
Western Portland Cement Co. ("Yankton"
Brand), Works: Yankton, S. Dak.

Cement Packers

(See Packing Machines, in Machinery)

***Cement Stains (Waterproof)**

CABOT, SAMUEL, 141 Milk, Boston,
Mass. (See adv. index & branch offices, end
of book)

Cement Testing Machines

(See Testing Machines, Cement, in Machinery)

Cements (Asbestos)

Asbestos Mining & Mfg. Co., Providence, R. I.
Carey, Philip Mfg. Co., Lockland, O.
Chicago Asbestos Mfg. Co., 78 W 22d pl, Chi-
cago, Ill.
Colebrook, W. H. Sons, Syracuse, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Ehret Magnesla Mfg. Co., Land Title bldg.
Phila., Pa.
Excelsior Steel Furnace Co., 40 W Monroe, Chi-
cago, Ill.
Federal Asbestos Mfg. Co., Alliance, O.
Franklin Mfg. Co., Franklin, Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
Johns, H. W.-Manville Co., 100 William, New
York
Keasbey & Mattison Co. (Also Magnesla), Main
Office & Works: Ambler, Pa.
New Jersey Asbestos Co., Camden, N. J.
New York Asbestos Mfg. Co., 80 John, New
York
Norristown Magnesla & Asbestos Co., Norristown,
Pa.
Oil City Asbestos Co., Oil City, Pa.
Otley Mfg. Co. ("Eureka"), 855 N Winchester
av, Chicago, Ill.
PECORA PAINT CO. (S. Bowen's Son,
Successor), 4th st & Reading R. R., Phila.,
Pa. (See adv. index, end of book)
Sall Mountain Asbestos Co., 68 S Canal, Chi-
cago, Ill.

Union Fibre Co., Winona, Minn.
WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)

Cements (Asphalt)

Acme Asphalt Roofing Mfg. Co. (Roofing), 65
Mallory av, Jersey City, N. J.
American Asphaltum & Rubber Co., Women's
Temple, Chicago, Ill.
INDIAN REFINING CO., Cincinnati, O.
(See adv. index, end of book)
Texas Co. ("Texaco" for Paving), Houston,
Tex., & 17 Battery pl, New York
Trinidad Asphalt Mfg. Co., 320 S. 21st, St.
Louis, Mo.
Warren Bros. Co., 98 Federal, Boston, Mass.
WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)

Cements (Belt)

(See Belt Cement)

Cements (Caen Stone)

Revis, Wm. H. (French), 1123 B'way, New
York

Cements (Cast Iron Soil Pipe)

AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze's"), 532 E. 149th,
New York. (See adv. index, end of book)
Desper, H. A. ("Balsago" or for Any Purpose
Not Subject to Heat), Worcester, Mass.
SMOOTH-ON MFG. CO., 572 Commu-
nipaw av, Jersey City, N. J. (See adv. in-
dex & branch offices, end of book)

Cements (Cast Steel Filler)

(See Cements, Iron & Steel)

Cements (Elastic)

AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze's"), 527 E. 149th,
New York. (See adv. index, end of book)
Capitol Asphalt Mastic Co., Columbus, O.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Harlem Roofing & Waterproofing Co., 147 E
125th, New York
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Kuhls, H. B. Fred. (Elastic Trowel), 719 3d
av, Brooklyn, N. Y.
Maire Paint Co. (Ali Minerals), 241 1st av, N.
Minneapolis, Minn.
Miller, Clifford L. & Co. ("Minwax"), 110 E
23d, New York
MILWAUKEE CORRUGATING CO.
(Jobbers), Milwaukee, Wis. (See adv. in-
dex & branch offices, end of book)
Munro & Co. ("House's" Imported for Flange
& Thread Joints), 1 Liberty, New York
PECORA PAINT CO. (S. Bowen's Son,
Successor), 4th st & Reading R. R., Phila.,
Pa. (See adv. index, end of book)
Purcell, Hycent (Original), 441 Main, Cam-
bridgeport, Mass.
RUTLAND FIRE CLAY CO., Rutland,
Vt. (See adv. index & branch offices, end of
book)
SMOOTH-ON MFG. CO. ("Smooth-
On"), 572 Communipaw av, Jersey City,
N. J. (See adv. index & branch offices, end
of book)
U. S. GUTTA PERCHA PAINT CO.
(For Chimneys, Roofs, etc.), 12-30 Dudley,
Providence, R. I. (See adv. index, end of
book)
Webster, W. F. Cement Co., Cambridge, Mass.
Wilhelm, A. Co. (Aluminum), Reading, Pa.

***Cements (Fire)**

AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze's"), 532 E. 149th,
New York. (See adv. index, end of book)
MAURER, HENRY & SON, 420 E 23d,
New York; Penna bldg. Phila., Pa. Works:
Maurer, N. J. (See adv. Inside Front Cover)

***Cements (French Portland)**

NON-STAINING CEMENT CO. ("La-
farge" Stainless), 156 5th av, New York.
(See adv. index, end of book)

Cements (Furnace & Stove)

(See Cements, Asbestos; also Cements, Elastic;
also Putty Manufacturers, Stovemakers)
AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze's"), 532 E. 149th,
New York. (See adv. index, end of book)
Carey, Philip Mfg. Co. (Asbestos), Lockland, O.
Colebrook, W. H. Sons, Syracuse, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
DIXON, JOS. CRUCIBLE CO. (For Re-
pairing Stove & Range Linings), Jersey
City, N. J. (See adv. index & branch of-
fices, end of book)

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

Ehret Magnesla Mfg. Co., Land Title bldg,
Phila., Pa.
Harlem Roofing & Waterproofing Co., 147 E
125th, New York
Oil City Asbestos Co. (Asbestos), Oil City, Pa.
Otley Mfg. Co. ("Eureka" for Jointing), 855 N
Winchester av, Chicago, Ill.
PECORA PAINT CO. (S. Bowen's Son,
Successor), 4th st & Reading R. R., Phila.,
Pa. (See adv. index, end of book)
RUTLAND FIRE CLAY CO., Rutland,
Vt. (See adv. index & branch offices, end
of book)
Stewart, W. H. Co., 81 Fulton, Brooklyn, N. Y.
Wainwright, Jno. C. A. (Dry), Spring City, Pa.
WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)
Wilhelm, A. Co., Reading, Pa.
Wilson, Geo. W., 612 Myrtle av, Brooklyn, N. Y.

***Cements (Gasket)**

AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze's"), 532 E. 149th,
New York. (See adv. index, end of book)

Cements (Graphite)

DIXON, JOS. CRUCIBLE CO. (For Re-
pairing Incandescent Lamps), Jersey City,
N. J. (See adv. index & branch offices, end
of book)
U. S. Graphite Co., Saginaw, Mich.

Cements (Hydraulic)

(See firms marked with a (*) under head of
Cement Manufacturers)

Cements (Iron Filler)

(See Cements, Iron & Steel)

Cements (Iron & Steel)

AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze's"), 532 E. 149th,
New York. (See adv. index, end of book)
Baizley, John, Iron Works ("Three Horses"
Iron Cement), 514 S. Delaware av., Phil-
adelphia, Pa.
Benskin Mfg. Co. (Steel), Canton, O.
Clark Cast Steel Cement Co. ("Clark" Cast
Steel for Blow Holes, etc.), Shelton, Conn.
DOGGETT, STANLEY ("Fill-It"), 101
Beekman, New York. (See adv. index,
end of book)
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Johns, H. W.-Manville Co. ("Ferro"), 100
William, New York
OSBORN MFG. CO., 5401 Hamilton
av, N. E., Cleveland, O. (See adv. index,
end of book)
Otley Mfg. Co. ("Eureka" Cast Iron Filler), 855
N Winchester Av, Chicago, Ill.
PECORA PAINT CO. (S. Bowen's Son,
Successor), 4th st & Reading R. R., Phila.,
Pa. (See adv. index, end of book)
Pittsburgh Crushed Steel Co. (Ltd.), Pitts-
burg, Pa.
Shanafelt Mfg. Co. ("X-Cel-All"), Canton, O.
Shelton Metallic Mfg. Co. (For Blow Holes,
etc.), Shelton, Conn.
SMOOTH-ON MFG. CO. ("Smooth-
On"), 572 Communipaw av, Jersey City,
N. J. (See adv. index & branch offices, end
of book)
Turner, J. S. Mfg. Co. ("Hold Tight"), 398
Middlesex, Lowell, Mass.
U. S. GUTTA PERCHA PAINT CO.
("Rice's Adamant," for Blowholes in Cast-
ing Leaks in Boiler Piping, etc.), 12-30 Dud-
ley, Providence, R. I. (See adv. index, end
of book)
Wilhelm, A. Co. ("Stick-to"), Reading, Pa.

Cements (Keene's American)

Acme Cement Plaster Co. ("Acme"), Century
bldg, St. Louis, Mo.
Best Bros. & Co. (Mfrs.), Medicine Lodge, Kan.
Hunkins-Willis Lime & Cement Co. (Sole
Agents for U. S.), 18th & Austin, St.
Louis, Mo.

Cements (Keene's Imported)

AMERICAN ART MARBLE CO. ("Vic-
toria"), 609 N American, Phila., Pa. (See
adv. index, end of book)
FLEMING & .. 253 B'way, New
York. (See adv. index, end of book)

Francklyn & Ferguson (English), Cotton Exch bldg. New York
 King, J. B. & Co., 1 B'way, New York
 Miller, Clifford L. & Co. ("Victoria"), 110 E 23d, New York
 Revis, Wm. H., 1123 B'way, New York

*Cements ("Lafarge")

NON-STAINING CEMENT CO., 156 5th
 av, New York. (See adv. index, end of book)

Cements (Locomotive & Boiler Front)

AMERICAN-GOETZE GASKET & Packing Co. ("Goetze's"), 532 E. 149th, New York. (See adv. index, end of book)
Frazer Paint Co. ("Frazer's" Non-Corrosive), Detroit, Mich.

Otley Mfg. Co. ("Enreka" Joint), 855 N Winchester av, Chicago, Ill.
SMOOTH-ON MFG. CO. ("Smooth-On"), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)
Wheeler, Asahel Co. ("A-W" Steam Joint), 52 High, Boston, Mass.

Cements (Magnesite, Chrome & Silica)

Harbison-Walker Refractories Co., Farmers' B'k
 bldg., Pittsburg, Pa. & 1133 B'way, New York

*Cements ("Meier's" Non-Staining)

McBRIDE, C. E., 151 3d, Louisville, Ky.

Cements (Natural)

(See firms marked with a Star (*) under head of Cement Manufacturers)

Cements (Paving)

Barrett Mfg. Co. (Coal Tar), Land Title bldg, Philadelphia, Pa.

Cements (Pipe Joint)

AMERICAN-GOETZE GASKET & Packing Co. ("Goetze's"), 532 E. 149th, New York. (See adv. index, end of book)
Baker, W. T. ("Atlantic"), Jersey City, N. J.
Callahan, Geo. & Co. ("Old Reliable"), 218 Front, New York
Clark Cast Steel Cement Co. ("Clark" Cast Steel), Shelton, Conn.
Cook & Cokefair ("Peerless"), 306 Pearl, New York
Crane Co. (Est. 1855) (The "Crane"), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crookston, Wm. H. & Bro., 185 Wooster, New York

DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)

Eagle Paint & Varnish Co. ("Red Rustless"), Works: North Side, Pittsburg, Pa.
Edgecombe Co. ("Red Cross," No-Leak), Cuyahoga Falls, O

Frazer Paint Co. ("Frazer's" Non-Corrosive Pipe Joint Paste), Detroit, Mich.
Gumbo Specialty Co. ("Gumbo"), 446 Lincoln av, Chicago, Ill.
Johns, H. W.-Manville Co. ("H.-O."), 100 William, New York

Memphis White Lead Works, Memphis, Tenn.
Otley Mfg. Co. ("Eureka" Steam Joint, etc.), 855 N Winchester av, Chicago, Ill.
Shelton Metallic Filler Co., Shelton, Conn.

SMOOTH-ON MFG. CO. ("Smooth-On"), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)

Starbuck, R. N. & Son ("Securo"), Hartford, Conn.

United States Graphite Co. (Mexican Graphite), Saginaw, Mich.

Waich & Wyeth ("Manganesite" Paste), 87 Lake, Chicago, Ill.

Wheeler, Asahel Co. ("A-W" for Steam), 54 High, Boston, Mass.

Wilhelm, A. Co., Reading, Pa.

Cements (Plumbers')

AMERICAN-GOETZE GASKET & Packing Co. ("Goetze's" Repair), 532 E. 149th, New York. (See adv. index, end of book)

Easton, Chas. R. ("Perfection" Joint), Milford, N. H.
Johns, H. W.-Manville Co., 100 William, New York
Wilhelm, A. Co., Reading, Pa.

Cements (Portland)

(See Cement Manufacturers)

(Observe note immediately under the heading relating to Portland Cement & Hydraulic Cement)

Cements (Rivet)

AMERICAN-GOETZE GASKET & Packing Co. ("Goetze's"), 532 E. 149th, New York. (See adv. index, end of book)
Callahan, Geo. & Co. ("Callahan" Old Reliable), 218 Front, New York
Gumbo Specialty Co. ("Gumbo"), 446 Lincoln av, Chicago, Ill.

Memphis White Lead Works, Memphis, Tenn.
Otley Mfg. Co. ("Eureka"), 855 N Winchester av, Chicago, Ill.

PECORA PAINT CO. (S. Bowen's Son, Successor), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)

SMOOTH-ON MFG. CO. ("Smooth-On"), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)

U. S. Graphite Co. (Mexican Graphite), Saginaw, Mich.

U. S. GUTTA PERCHA PAINT CO. ("Rice's," for Hulls of Iron or Steel Vessels), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Cements (Roofing)

(See also Cements, Asbestos)

Acme Asphalt Roofing Mfg. Co. (Asphalt), 65 Mallory av, Jersey City, N. J.

American Insulating Material Mfg. Co. (Granite Rock Asphalt), Alexandria, Ind.

Barrett Mfg. Co., Land Title bldg., Phila., Pa.
Briggs, John & Co. ("Elastic," Anchor Brand), 47 Purchase, Boston, Mass.

Callahan, Geo. & Co., 218 Front, New York
Carey, Philip Mfg. Co., Lockland, O.
CINCINNATI WALL TIE CO., 206 E 5th, Cincinnati, O. (See adv. index, end of book)

Clinton Metallic Paint Co., Clinton, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Ehret Magnesia Mfg. Co., Land Title bldg., Phila., Pa.

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Gorsuch, T. M., 919 James, Cleveland, O.
Harlem Roofing & Waterproofing Co., 147 E 125th, New York

Heppes Co. ("No Tar," Liquid), 45th av & Fillmore, Chicago, Ill.

Hetzl, J. G. (Est. of), Newark, N. J.
Johns, H. W.-Manville Co., 100 William, New York

Lucas, John & Co., 4th & Race, Phila., Pa.
Maire Paint Co. (All Minerals), Minneapolis, Minn.

MILWAUKEE CORRUGATING CO. (Jobbers), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Oil City Asbestos Co. (Asbestos), Oil City, Pa.
Patent Vulcanite Roofing Co. ("Vulcanite"), 625 S Campbell av, Chicago, Ill.

PECORA PAINT CO. (S. Bowen's Son, Successor), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)

Purcell, Hycent (Original), 441 Main, Cambridge, Mass.

RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index & branch offices, end of book)

Stewart, W. H. Mfg. Co., 81 Fulton, New York
Stowell Mfg. Co. (Asphalt), 114 to 134 Culver av, Jersey City, N. J.

Trinidad Asphalt Mfg. Co. ("Epure" Trinidad Asphalt), 320 S 21st, St. Louis, Mo.

U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Victor Mfg. Co. (Elastic), Newburyport, Mass.

Warren Chemical & Mfg. Co., 17 Battery pl, New York

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Webster, William F. Cement Co., Cambridge, Mass.
Wilhelm, A. Co. ("Para"), Reading, Pa.
Woolsey, C. A. Paint & Color Co., Jersey City, N. J.

Cements (Rosendale)

(See firms marked thus ** under head of Cement Manufacturers)

Cements (Rubber)

(See also Cements, Tire)

Baker Rubber Cement Co., 48 Lincoln, Boston, Mass.

Blanc Stainless Cement Co. ("Blanc"), Allentown, Pa.

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Continental Rubber Works, Erie, Pa.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Faultless Rubber Co. ("Faultless"), Ashland, Ohio
Hartford Rubber Works Co., Hartford, Conn.

Lyon Rubber Co., Akron, O.
Manhattan Rubber Mfg. Co., 18 Vesey, New York

Milford Rubber Cement Co., Milford, N. H.
Miller Rubber Mfg. Co., Akron, O.
Morgan & Wright (Inc.) (Brush, Shoe, Steel, etc.), Detroit, Mich.

National Cement & Rubber Mfg. Co. ("High Pressure," "Red Cross," "Anchor" & "Pioneer"), Toledo, O.

N. J. Car Spring & Rubber Co., Jersey City, N. J.

New York Belting & Packing Co. (Ltd.), 91 Chambers, New York

PENNSYLVANIA RUBBER CO., Jennett, Pa. (See adv. index, end of book)

Cements (Stainless Portland)

McBRIDE, C. E. ("Meier's" Non-Staining), 151 3d, Louisville, Ky.

Morse, Frank E. Co. ("Morse's" White Puzzle), 17 State, New York

NON-STAINING CEMENT CO. ("Lafarge"), 156 5th av, New York. (See adv. index, end of book)

*Cements (Stone Setters')

(See also Cements, Stainless, Portland)

HARRISON SUPPLY CO. ("Wonder"), 5 & 7 Dorchester av, ext., Boston, Mass. (See adv. index, end of book)

Cements (Stove)

(See Cements, Furnace & Stove; also Pntty Manufacturers, Stovemakers')

Cements (Tire)

(See also Cements, Rubber)

DIAMOND RUBBER CO. ("Titan"), Akron, O. (See adv. index, end of book)

Fisk Rubber Co., Chicopee Falls, Mass.
Goodrich, B. F., Co. ("Goodrich"), Akron, O.
Hartford Rubber Works ("Hartford"), 691 Park, Hartford, Conn.

M. & M. Mfg. Co. ("M. & M."), Akron, O.
National Cement & Rubber Mfg. Co. ("High Pressure," "Pioneer," "Red Cross," "Anchor," "Auto Rubber" & "Auto Tire"), Toledo, O.

Tingley, Chas. O. & Co., Rahway, N. J.

Cements (White, for Mortar)

Higginson Mfg. Co. ("Higginson," for Plastering & Finishing Walls), Newburgh, N. Y.

Cements (White Portland)

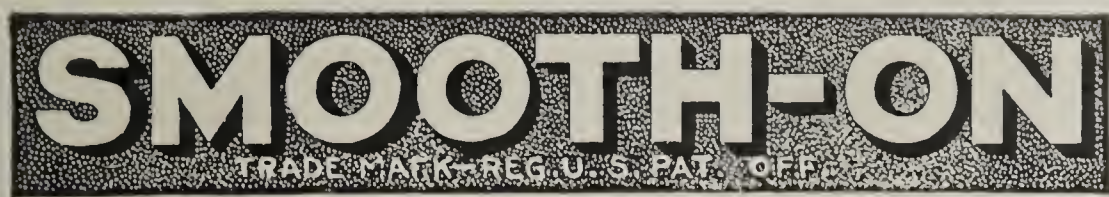
Berkshire White Portland Cement Co., 15 Park Row, New York. Works: Clay-ton, Mass.

Sandusky Portland Cement Co. ("Medusa"), Sandusky, O.

Cemetery Railings

ANCHOR POST IRON WORKS, 19 Cortlandt, New York. (See adv. index, end of book)

Atlanta Wire & Iron Works Co., Atlanta, Ga.



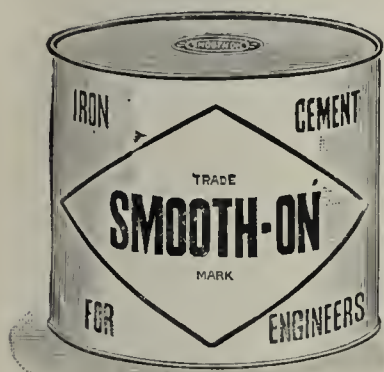
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Gray Label for Hot Work

SMOOTH-ON MFG. CO., Jersey City, N. J.

Chicago Office, 61 N. Jefferson Street.

San Francisco Office, 94 Market Street

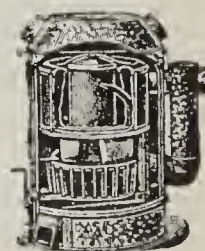
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Stove Putty.



Roofing Cement.



Asbestos
Furnace Cement.

"PECORA" means "Everlasting." If you want to be SURE of your result use "Everlasting" Cements.

Established 1862.

PECORA PAINT CO., S. BOWEN'S SON, Successor,
4th and Reading R. R., Phila., Pa.

IF YOU ARE IN DOUBT AS TO THE
ORIGINAL MANUFACTURER OF
ANY MACHINE OR TOOL ON WHICH
THE PATENTS HAVE EXPIRED, THAT
ARE NOW BEING EXPLOITED BY MANY
MAKERS, ASK HENDRICKS.

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IT IS NOT A CATALOG OF ADVER-
TISERS ALONE, BUT A COM-
PLETE REGISTER OF THE MANU-
FACTURERS AND JOBBERS IN EVERY
LINE OF TRADE THAT COMES WITHIN
THE SCOPE OF THE WORK.

R E G I S T E R

Barnum, E. T. Wire & Iron Works (Fencing),
82 Washington av., Detroit, Mich.
Batalle, Achille & Co., 587 Hudson, New York.
BOLLES, J. E. IRON & WIRE WORKS,
Detroit, Mich. (See adv. index, end of book)
CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)
Dufur & Co., 311 N Howard, Baltimore, Md.
Enterprise Fdry & Fence Co., Indianapolis, Ind.
GORHAM CO. ARCH'L BRONZE,
5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
JACKSON, WM. H. COMPANY, 29 E
17th (Union square), New York & 163
Michigan av., Chicago, Ill. (See adv. index, end of book)
McLean, Jno., 440 Water, New York
Manhattan Brass Co., 334 E 28th, New York
Mast, Foos & Co., Springfield, O.
MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)
Peter, F. N. & Bro., Newside, Pa.
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end of book)

Stewart Iron Works, Covington, Ky.
Union Equipment & Bronze Co., 1901 Park
av., New York
VULCAN CO., Detroit, Mich. (See
adv. index, end of book)

Centering (Steel)

Blaw Collapsible Steel Centering Co. (Collapsible), Westinghouse bldg., Pittsburgh, Pa.
Duralite Company (Steel Forms for Sewers, Arches, Partitions, Caissons, etc.), 42 B'way, New York
Jackson, Geo. W., Inc. (Steel Ribs & Lagging for Tunnels, Bridges, Foundations, etc.), 169 W Jackson boul., Chicago, Ill.
RANSOME CONCRETE MACHINERY CO.,
Dunellen, N. J. (See adv. index & branch offices, end of book)

Centers (Bench)

Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.

Centers (Car Wheel)

Commonwealth Steel Co. (Open Hearth Locomotive Driving Wheel Centres), Bank of Commerce Bldg., St. Louis, Mo.
Pittsburg Steel Foundry (Open Hearth Steel, Locomotive Wheel Centres & Frames), Pittsburg, Pa.
New York Switch & Crossing Co. (Hard Steel), Hoboken, N. J.
Scullin-Gallagher Iron & Steel Co. (Driving Wheel Centres), St. Louis, Mo.
Standard Steel Works, Harrison bldg., Philadelphia, Pa.
Taylor Iron & Steel Co., High Bridge, N. J.

Centers (Index)

Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Garvin Machine Co., 137 Varick, New York
Gould & Eberhardt, Newark, N. J.
Kenpsmith Mfg. Co., Linus, c Woodward, Milwaukee, Wis.
Newton Machine Tool Works (Inc.), 2343 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Stockbridge Machine Co., Worcester, Mass.
Waltham Watch Tool Co., Springfield, Mass.

*Centers (Lathe)

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)

Centers (Planer)

Fay & Scott, Dexter, Mass.
Fitchburg Machine Works, Fitchburg, Mass.
Hamilton Machine Tool Co., Hamilton, O.
Hendey Machine Co., Torrington, Conn.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Walcott & Wood Machine Tool Co., Jackson, Mich.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Centers (Sash & Transom)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
Howarth Reversible Sash Center Co. ("Howarth" Reversible Sash Centers), 15 Gliman, Detroit, Mich.
Norwalk Lock Co., South Norwalk, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn. Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Wrightsville Hardware Co., Wrightsville, Pa.

Centers (Shaper)

Hendey Machine Co., Torrington, Conn.
Pratt & Whitney Co., Hartford, Conn.
Walcott & Wood Machine Tool Co., Jackson, Mich.

Centrifugals

(See also Hydro-Extractors)

American Tool & Machine Co. ("Weston," Belt, Water & Electrical Driven; also for Laboratory or Experimental Use), 109 Beach, Boston, Mass.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Remmers, B. & Sons (Special, for Starch & Chemical Factories), Bourse bldg, Phila., Pa.

Cesspools

Barber Mfg. Co., Ashtabula, O.
Barnes Mfg. Co., Mansfield, O.
Casey-Hedges Co., Chattanooga, Tenn.
CENTRAL FOUNDRY CO. (Also Miscellaneous Accessories), 37 Wall, New York. (See adv. index, end of book)
Estabrook's, R. Sons ("Estabrook" Deep Seal), 204 W 1st S. B., Boston, Mass.
Glenn Mfg. Co. (Bell Trap, etc.), St. Charles, Ill.
Haines, Jones & Cadbury, 1136 Ridge av., Phila., Pa.
Kokomo Brass Works (Brass Threaded), Kokomo, Ind.
Kupferle, Jno. C., Foundry Co., St. Louis, Mo.
McDonald Bros., Columbus, O.
Madison Foundry Co. ("Acme"), 935 Addison rd., N. E., Cleveland, O.
Modern Iron Works (with Ball Traps, etc.), Quincy, Ill.
Northwestern Foundry & Supply Co., Detroit, Mich.
Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Standard Sanitary Mfg. Co., Bessemer bldg., Pittsburg, Pa.
Stelger & Kerr Stove & Foundry Co., San Francisco, Cal.
Swett, A. L. Iron Works, Medina, N. Y.
Trenton Brass & Machine Co., Trenton, N. J.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Chain Belt

(See Belting, Chain or Link)

Chain Blocks

(See Hoists, Chain)

Chain Links & Chain (Punched)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
NEW JERSEY FOUNDRY & MACHINE
Co., 90 West, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Rhode Island Tool Co., Providence, R. I.
Transue & Williams Co. (Drop Forged Chain Links), Alliance, O.
Union Drop Forge Co. (Conveyors Links), Chicago, Ill.

Chain Machinery

(See Machinery, Chain)

*Chain Repair Links

NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv. index, end of book)

Chain Saw Mortiser

New Britain Machine Co., New Britain, Conn.

*Chain (Second Hand)

WALSH'S SONS & CO., Newark, N. J.
(See adv. index, end of book)

*Chain Slings

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

Chain Stays

American Pin Co. (Brass), Waterbury, Conn.
BERNZ, OTTO, S 13th & S Orange av,
Newark, N. J. (See adv. index, end of book)
Clow, Jas. B. & Sons, 342 Franklin, Chicago, Ill.
Columbus Brass Co., Columbus, O.
Detroit Sanitary Supply Co., Detroit, Mich.
DuBois, F. N., 245 9th, New York
Haines, Jones & Cadbury Co., 1136 Ridge av., Philadelphia, Pa.
Haydenville Co., Haydenville, Mass.
Hoffmann-Billings Mfg. Co., Milwaukee, Wis.
McDonald, A. Y. & Morrison Mfg. Co., Duquesne, Pa.
Milwaukee Brass Mfg. Co., 241 Lapham, Milwaukee, Wis.
Mott, J. L. Iron Works, 118 5th av., New York
Nelson, N. O. Mfg. Co., St. Louis, Mo.
NEWHALL CHAIN, FORGE & IRON
Co., 90 West, New York
Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
Reld, R. W., 272 Kent av., Brooklyn, N. Y.
Sanitary Co., Cleveland, O.
Standard Sanitary Mfg. Co., Bessemer bldg., Pittsburg, Pa.
Street & Kent Mfg. Co., 41 Fulton, Chicago, Ill.
Waterbury Mfg. Co., Waterbury, Conn.
Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.

Chains (Agricultural)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Carr, Jos. B. Co., Troy, N. Y.
Columbus Chain Co., Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
JEFFREY MFG. CO., Columbus, O. (See
adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
McCoy & Linn Iron Co., Milesburg, Pa.
McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
Mundorf, Geo. W., York, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
NEWHALL CHAIN, FORGE & IRON CO.,
90 West, New York
NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G
(Weldless, "American," "Niagara,"
"Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
Oneida Community (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Todd Mfg. Co., New Albany, Ind.
White Hill Chain Works, Fieldsboro, N. J.
Woodhouse Chain Works, Trenton, N. J.
Wyatt, Thomas Mfg. Co., Providence, R. I.

*Chains (Aluminum)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv. index, end of book)

Chains (Anti-Spreader)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Columbus Chain Co., Columbus, O.
NEWHALL CHAIN, FORGE & IRON CO.,
90 West, New York
ONEIDA COMMUNITY (Ltd.), Dep't G
(Weldless, "Eureka"), Oneida, N. Y. (See
adv. index & branch offices, end of book)

***Chains (Arc Lamp Suspension)**

ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Automobile)

(See Chains, Power Transmission)

Chains (Awning)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Ball Bearing)

Carter Iron Co. ("The Carter"), Pittsburg, Pa.

Chains (Bicycle)

Baldwin Chain Mfg. Co., Worcester, Mass.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Duckworth Chain & Mfg. Co., Springfield, Mass.
Hall, Chas. E. Co., Buffalo, N. Y.
Lefever Arms Co., Syracuse, N. Y.
MORSE CHAIN CO., Ithaca, N. Y. (See adv. index, end of book)
Page-Storms Drop Forge Co., Springfield, Mass.

Chains (Binder)

(See also Chains, Log)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Bit)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G ("Niagara," Weldless, Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Block)

Carter Iron Co., Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
Lebanon Chain Works, Lebanon, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
MacPherson, Willard & Co., Fieldsboro, N. J.
Monongahela Iron & Steel Co., Pittsburg, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Taylor, S. G. Chain Co., 98 Indiana, Chicago, Ill.
West End Iron Co., Lebanon, Pa.
White Hill Chain Works, Fieldsboro, N. J.
Whitney Mfg. Co., Hartford, Conn.
Woodhouse Chain Works, Trenton, N. J.
Woodhouse, Samuel, 3515 E 82d, S E, Cleveland, O.

Chains (Brake)

Baker, Jas. H. Mfg. Co., Park bldg. Pittsburg, Pa. Works: Tarentum, Pa.
Carr, Jos. B. Co., Troy, N. Y.
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lebanon Chain Works, Lebanon, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
Round, David. & Son, 7623 B'way S. E., Cleveland, O.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Steel Car Forge Co., Frick bldg. Pittsburg, Pa. Works: Ellwood City, Pa.
Taylor, S. G. Chain Co., 98 Indiana, Chicago, Ill.
West End Iron Co., Lebanon, Pa.
Woodhouse Chain Works, Trenton, N. J.
Woodhouse, Samuel, 3515 E 82d, S E, Cleveland, O.
Wyatt, Thos. Mfg. Co. (Hand Made), Providence, R. I.

Chains (Brass)

Bliss, A. H. Co. (Small), North Attleboro, Mass.
Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hale Bros., Worcester, Mass.

HUNGERFORD, U. T. BRASS & COPPER Co. (Mfrs.' Agents), 497 Pearl, New York

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Phoenix Hardware Mfg. Co., Homer, N. Y.
Plime & Atwood Mfg. Co., Waterbury, Conn., & 29 Murray, New York

Rome Brass & Copper Co., Rome, N. Y.
Smith & Egge Mfg. Co. (Cable), Bridgeport, Conn.

Steele & Johnson Mfg. Co., Waterbury, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
Waterbury Brass Goods Corporation, Waterbury, Conn.

***Chains (Breast)**

(See also Chains, Coil)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Chains (Breeching)

(See Chains, Coil)

Chains (Cable & Marine)

American Bridge Co. (Iron), Pittsburg, Pa., & 30 Church, New York
Bradlee & Co., 726 Richmond, Phila., Pa.
Carr, Joseph B. Co., Troy, N. Y.
Carter Iron Co., Pittsburg, Pa.
Columbus Chain Co. (Close & Stud Link), Columbus, O.

Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co. (Closed & Stud Link), Pittsburg, Pa.
Lebanon Chain Works (Hand Made), Lebanon, Pa.

McCoy & Linn Iron Co., Milesburg, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
Monongahela Iron & Steel Co. ("Carter" Ball Bearing), Pittsburg, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
Round, David. & Son, 7623 B'way, S. E., Cleveland, O.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Welmer Chain & Iron Co. (Hand Made), Lebanon, Pa.

West End Iron Co., Lebanon, Pa.
Woodhouse Chain Works, Trenton, N. J.
Wyatt, Thos. Mfg. Co. (Hand Made), Providence, R. I.

Chains (Car Brake)

(See Chains, Brake)

Chains (Car Fender)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Coal Mine & Quarry)

(See Chains, Crane; also Chains, Dredging)

Chains (Coil)

Bradlee & Co., 726 Richmond, Phila., Pa.
BRIDGEPORT CHAIN CO. ("Triumph," "Brown" & "Perfection"), Bridgeport, Conn. (See adv. index, end of book)
Columbus Chain Co. (Common Proof "B.B."), "B.B.B.", Columbus, O.
Covert Mfg. Co. ("Yankee," Breast), Troy, N. Y.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

McCoy & Linn Iron Co., Milesburg, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
MacPherson, Willard & Co., Fieldsboro, N. J.
Monongahela Iron & Steel Co., Pittsburg, Pa.
Mundorf, Geo. W., York, Pa.

New Castle Forge & Bolt Co., New Castle, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Round, D. & Son, 7623 B'way, S. E., Cleveland, O.
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Starr, W. C. & Son, Richmond, Ind.
Steel Car Forge Co. (Proof), Frick bldg. Pittsburg, Pa.

Taylor, S. G. Chain Co., 98 Indiana, Chicago, Ill.
Todd Mfg. Co., New Albany, Ind.
West End Iron Co., Lebanon, Pa.
White Hill Chain Works, Fieldsboro, N. J.
Woodhouse Chain Works, Trenton, N. J.
Woodhouse, Samuel (Sizes 3-16 to 2-inch) 3515 E 82d, S E, Cleveland, O.

Chains (Conveyor)

Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
Columbus Chain Co. (Long Link Sprocket), Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Michigan Sprocket Chain Co., Detroit, Mich.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
Rivetless Chain Co. (Steel), Lebanon, Pa.
Standard Chain Co., Pittsburg, Pa.

Chains (Copper)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.

Chains (Cow Tie)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Columbus Chain Co., Columbus, O.
McCoy & Linn Iron Co., Milesburg, Pa.
Mundorf, Geo. W., York, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.
Woodhouse Chain Works, Trenton, N. J.

Chains (Crane)

American Bridge Co., Pittsburg, Pa., & 30 Church, New York
Bradlee & Co., 726 Richmond, Phila., Pa.
Carr, Joseph B. Co., Troy, N. Y.
Carter Iron Co., Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Hoopes & Townsend Co., 1330 Buttonwood Phila., Pa.
Hunt, C. W., Co., West New Brighton, S. I., N. Y.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lebanon Chain Works (Hand Made), Lebanon, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
MacPherson, Willard & Co., Fieldsboro, N. J.
Monongahela Iron & Steel Co. ("Carter" Ball Bearing, "Monon" & "Misco"), Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.

NIAGARA FALLS METAL STAMPING WORKS

Manufacturers of **HARDWARE SPECIALTIES**
NIAGARA FALLS, N. Y.

WE MAKE THEM ALL

We enumerate below some of the more important items in the large line of goods we regularly make and sell to different classes of trade. We are all the time increasing our line by the addition of new things.

CHAINS AND OTHER GOODS HANDLED BY HARDWARE, SADDLERY AND SPORTING GOODS HOUSES

Coil Chain	Bit Chains	Dog Leads	Wagon Chains	Steel Puzzle or Bolt Snaps
Halter Chains	Rein Chains	Dog Chains	Stake Chains	Rope Snaps and Chain Snaps
Cow Tie Chains	Hame Chains	Dog Leashes	Hammock Chains	Wrought Steel Harness Snaps
Tie-Out Chains	Post Chains	Dog Collars	Spreader Chains	Swivel Snaps and Lock Snaps
Curry Combs	Trace Chains	Dog Couplers	Cross Rein Chains	Shoulder or Carrying Chains
Safety Hasps	Tent Pins	Jockey Chains	Harness Chain Sets	Single and Double Rope Swivels
Breast Chains	Picket Pins	Stallion Chains	Fish Stringer Chains	Special Chains for Special Uses

A GREATER VARIETY OF KEY CHAINS THAN IS MADE BY ANY OTHER HOUSE IN THE WORLD.

Key Chains in Steel, Plain and Nickel and Brass Plated, in Solid Brass, Plain and Nickel Plated, in Aluminum, German Silver, Oreide and Mixed Links, Expansion Link and Expansion Coil Key Chains, Expansion Watch Chains, Fob Chains and Scissors Chains, all made of Solid Nickel Silver and Best Plated Music Wire, Flexible Key Rings with Puzzle Snaps, Split Steel Key Rings, Railroad Key Chains, Key Rings with Advertising Tags, Etc., Etc.

Catalog sent on request, and samples and prices to any interested jobber.

SHEET METAL LETTERS, FIGURES AND SIGNS.

We make Separate Embossed Letters in sizes 1½", 2" and 3", for making up signs of all kinds, also Separate Embossed Figures in sizes 1", 1½", 2", 3", 4" and 6". We make Embossed Sheet Metal Number Plates with ¾", 1¼", 2" and 2½" Figures, and Embossed Sheet Metal Signs with Letters from ¾" to 3", for Street Name Signs, Advertising Signs, Name Plates, Business Signs and many other purposes. We make these in Aluminum, in Brass in Various Finishes, and in different Colors of Enamel. We make Push and Pull Plates, House Numbers, Room Numbers, Pigeon Hole Numbers, Automobile Numbers, Numbering Plates, Lettering Plates, Name Plates, Automobile Number Plates, and Special Plates to order in great variety.

GOODS FOR CONTRACTORS AND JOBBERS IN BUILDERS' SUPPLIES.

Galvanized Wall Plugs, for building into walls as a base for nailing, 12" Galvanized Wall Ties, two widths, for use in concrete block walls. Galvanized Veneer Ties for brick veneer walls, and 7½" Galvanized Wall Ties. Steel Sash Pulleys and Sash Chain, Plated or Unplated, and Steel Sash Fixtures.

GOODS FOR CITIES AND MUNICIPALITIES.

Street Name Signs, House Numbers, Dog Tags, Bicycle Tags, Automobile Numbers, Hat and Pin Official Badges, Vehicle License Plates, Dog Collars, Dog Leads, Miscellaneous Signs, Etc., Etc.

MISCELLANEOUS GOODS.

Seal Presses, Hotel Key Checks, Key Ring Tags, Advertising Checks, Trade Checks, Baggage Checks, Pool Checks, Time Checks, Steel Stamps, Letters and Figures, Medals, Badges, Lettering Dies for Die Sinkers, Animal Traps, Ice Cream Block Freezers, Etc., Etc.

HARDWARE SPECIALTIES AND NOVELTIES FOR OTHERS.

We make Hardware Specialties for others, Stamped and Formed from Sheet and Plate Steel, Brass, Tin, Copper and Aluminum, and from Steel and other Rods, Bars and Wire. We do Drop Forging and Screw Machine Work. We do Wire Forming, and make Specialties to order in Wood. We do Buffing, Polishing, Enameling and Electroplating in Copper, Nickel, Brass and Zinc. We make Cutting, Punching and Embossing Dies, make Tools and Models to order, and do Die Sinking and Engraving. We make all the Dies we use in our own business, and all the Dies and Tools for the Specialties we make for others. We also make Dies for our customers to use in their own shops, in many cases fitting them up with Presses and other Tools complete to do their own manufacturing.

If you want to get Specialties of this character made, let us hear from you.

NIAGARA FALLS METAL STAMPING WORKS
NIAGARA FALLS, N. Y.

The Morse Silent-Running High-Speed Chain



The Morse Silent-Running Chain is in constant use at speeds up to 2000 feet per minute, running efficiently, quietly and smoothly.

It can be used where belt drives would be impossible, on account of short centers, heat, dampness and other conditions.

For many purposes it is cheaper than belting, occupies less space, is noiseless and at all times provides a positive speed ratio. Under equal conditions it will transmit without joint wear, more power per inch of width than any other chain made. *Fully Described in Catalogue 7.*

Morse Chain Company,

Ithaca, N. Y.

“TRIUMPH” CHAIN

THE ORIGINAL WELDLESS WIRE CHAIN

TWICE AS STRONG AT WELDED CHAIN.

IMMENSE VARIETY OF SIZES.

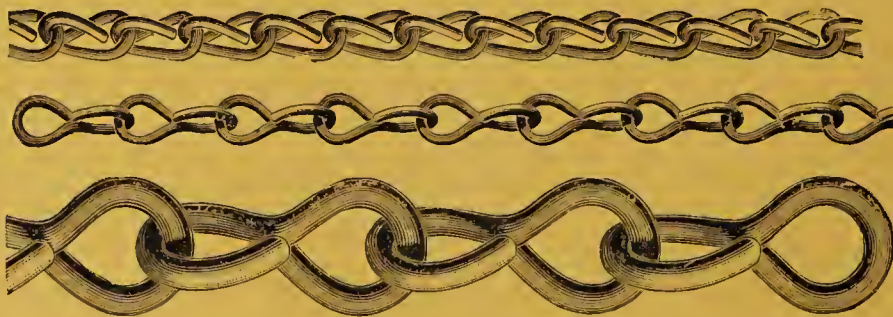
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THE BRIDGEPORT CHAIN COMPANY,

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STAIR PLATES
STAIR NOSING
STAIR RODS
BRASS CASTINGS

ALSO
STAR BRAND
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PLUMBERS' CHAIN
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GILT NAILS
CUP HOOKS
UPHOLSTERY HARDWARE
COMPOSITION CASTINGS

“STAR BRAND” means quality. Write for prices.

NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
 Round, D. & Son (1/4 to 2 1/2 inch), 7625 B'way, S. E., Cleveland, O.
 Seneca Chain Co., Kent, O.
 Standard Chain Co., Pittsburg, Pa.
 Starr, W. C. & Son (Swedish Iron), Richmond, Ind.
 Taylor, S. G. Chain Co., 98 Indiana, Chicago, Ill.
 Welmer Chain & Iron Co. (Hand Made), Lebanon, Pa.
 West End Iron Co., Lebanon, Pa.
 White Hill Chain Works, Fieldsboro, N. J.
 Woodhouse Chain Works, Trenton, N. J.
 Woodhouse, Samuel, 3515 E 82d, S E, Cleveland, O.
 Wyatt, Thomas Mfg. Co., Providence, R. I.

Chains (Differential Pulley Block)

Columbus Chain Co., Columbus, O.
 Hayden-Corbett Chain Co., Columbus, Ohio.
 McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
 Round, D., & Son, 7625 B'way, S. E., Cleveland, Ohio
 Standard Chain Co., Pittsburg, Pa.
 West End Iron Co., Lebanon, Pa.
 White Hill Chain Works, Fieldsboro, N. J.
 Woodhouse Chain Works, Trenton, N. J.
 Woodhouse, Samuel, 3515 E 82d, S E, Cleveland, O.

Chains (Dog Lead)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G ("American," "Niagara," "Eureka," "Weldless"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Wire Goods Co., Worcester, Mass.

Chains (Drag)

Buhl Malleable Co., Detroit, Mich.
 Exeter Machine Works, Pittston, Pa.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
 West End Iron Co., Lebanon, Pa.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Dredge)

American Bridge Co., Pittsburg, Pa. & 30 Church, New York
 Bradlee & Co., 726 Richmond, Phila., Pa.
 Carr, Jos. B. Co., Troy, N. Y.
 Carter Iron Co., Pittsburg, Pa.
 Columbus Chain Co., Columbus, O.
 Haskell, Wm. H. Mfg. Co. (Punched Link), Pawtucket, R. I.
 Hayden-Corbett Chain Co., Columbus, O.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Lebanon Chain Works, Lebanon, Pa.
 McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
 Monongahela Iron & Steel Co. ("Carter" Ball Bearing "Monon" & "Misco"), Pittsburg, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
NEWHALL CHAIN, FORGE & IRON CO. (Branded "Warwick" & "Trident"), 90 West, New York
 Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.
 Round, David, & Son, 7625 B'way, S. E., Cleveland, O.
 Seneca Chain Co., Kent, O.
 Standard Chain Co., Pittsburg, Pa.
 Taylor, S. G. Chain Co., 98 Indiana, Chicago, Ill.
 Welmer Chain & Iron Co. (Hand Made), Lebanon, Pa.
 West End Iron Co., Lebanon, Pa.
 White Hill Chain Works, Fieldsboro, N. J.
 Woodhouse Chain Works, Trenton, N. J.
 Woodhouse, Samuel, 3515 E 82d, S E, Cleveland, O.

Chains (Elevator)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
 Carter Iron Co., Pittsburg, Pa.
 Columbus Chain Co., Columbus, O.
 Hayden-Corbett Chain Co., Columbus, Ohio.
 Hoopes & Townsend Co. (Drop Forged), 1330 Buttonwood, Phila., Pa.
JEFFREY MFG. CO., Columbus, Ohio. (See adv. index & branch offices, end of book)
 McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
ONEIDA COMMUNITY (Ltd.), Dep't G ("American," "Niagara," "Eureka," "Weldless"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.
 West End Iron Co., Lebanon, Pa.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Fire Hydrant)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

*Chains (Fish Stringer)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

*Chains (Frictionless, Rocker Joint)

MORSE CHAIN CO., Ithaca, N. Y. (See adv. index, end of book)

Chains (Furnace)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G ("American," "Weldless"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Galvanized Pump)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
 Cleveland Galvanizing Works, Cleveland, O.
 Douglas, W. & B., Middletown, Conn., & 83 John, New York
 Garland Nut & Rivet Co., Pittsburg, Pa.
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
 Schriver, O. P. & Co. ("I. X. L."), 621 Pearl, Cincinnati, O.
 Union Mfg. Co., New Britain, Conn., & 103 Chambers, New York

Chains (Gear Link Drive)

Union Malleable Iron Co. ("Heald's" Patent), E. Moline, Ill.

*Chains (German Silver)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

*Chains (Gilded)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Chains (Halter)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
 Columbus Chain Co., Columbus, Co.
 Covert Mfg. Co., Troy, N. Y.
 McCoy & Linn Iron Co., Milesburg, Pa.
 Mundorf, Geo. W., York, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Seneca Chain Co., Kent, O.
 Standard Chain Co., Pittsburg, Pa.

*Chains (Hame)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

*Chains (Hammock)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Chains (Harness)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
 Columbus Chain Co., Columbus, O.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Seneca Chain Co. (All Kinds), Kent, O.
 Starr, W. C. & Son, Richmond, Ind.
 Todd Mfg. Co., New Albany, Ind.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Hitching or Mine)

Columbus Chain Co., Columbus, O.
 Hayden-Corbett Chain Co., Columbus, Ohio.
 McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
 Woodhouse Chain Works, Trenton, N. J.

Chains (Hog)

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)
 Wendt, Albert, 456 E. 2d, Cincinnati, O.

Chains (Hoist)

Columbus Chain Co., Columbus, O.
 Diamond Chain & Mfg. Co., Indianapolis, Ind.
 Hayden-Corbett Chain Co., Columbus, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
NEWHALL CHAIN, FORGE & IRON CO. (Branded "Warwick" & "Trident"), 90 West, New York
 Seneca Chain Co., Kent, O.
 Woodhouse Chain Works, Trenton, N. J.

Chains (Howe Bull)

Link Belt Co., W 39th cor Stewart av, Chicago, Ill., & 299 B'way, New York
 Hayden-Corbett Chain Co., Columbus, O.

Chains (Hydrant Sets)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)

Chains (Ice Elevator)

JEFFREY MFG. CO., Columbus, Ohio. (See adv. index & branch offices, end of book)
 Smith, Thos. & Co., Worcester, Mass.

Chains (Jack)

(See also Chains, Safety)

Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
 Corbin Screw Corporation (Iron & Brass, Single or Double), New Britain, Conn.
 Hale Bros., Worcester, Mass.
 Hungerford, U. T., Brass & Copper Co. (Brass & Iron), 497 Pearl, New York

JEFFREY MFG. CO., Columbus, Ohio. (See adv. index & branch offices, end of book)
Phoenix Hardware Mfg. Co., Homer, N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Smith & Egge Mfg. Co. (Brass & Iron), Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
TUPNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
Waterbury Brass Goods Corporation, Waterbury, Conn.
Wire Goods Co., Worcester, Mass.

*Chains (Jockey)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G ("Niagara," Weldless), Oneida, N. Y. (See adv. index & branch offices, end of book)

*Chains (Kennel)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G ("American," "Niagara," Weldless), Oneida, N. Y. (See adv. index & branch offices, end of book)

*Chains (Key)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Chains (Laminated Hoisting)

Diamond Chain & Mfg. Co., Indianapolis, Ind.
Hunt, C. W., Co., West New Brighton, S. I., N. Y.

Chains (Link)

(See Chain Links & Chains, Punched)

Chains (Log)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Baker, Jas. H., Park bldg. Pittsburg, Pa.; Works: Tarentum, Pa.
Carr, Jos. B. Co., Troy, N. Y.
Columbus Chain Co., Columbus, O.
Diamond Iron Works (Log & Cable Haul Up), Minneapolis, Minn.
Hayden-Corbett Chain Co. (Ring & Hook), Columbus, O.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
JEFFREY MFG. CO., Columbus, Ohio. (See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Lane Mfg. Co., Montpelier, Vt.
McCoy & Linn Iron Co., Milesburg, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
Michigan Sprocket Chain Co., Detroit, Mich.
Mundorf, Geo. W., York, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
Round, David, & Son, 7625 B'way, S. E., Seneca Chain Co., Kent, Ohio
Cleveland, O.
Starr, W. C. & Son, Richmond, Ind.
Standard Chain Co., Pittsburg, Pa.
Taylor, S. G. Chain Co., 98 Indiana, Chicago, Ill.
Todd Mfg. Co., New Albany, N. Y.
West End Iron Co., Lebanon, Pa.
White Hill Chain Works, Fieldsboro, N. J.

Chains (Machinery)

Bliss, E. C. Mfg. Co., Providence, R. I.
BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
ONEIDA COMMUNITY (Ltd.), Dep't G ("American," "Niagara," "Eureka," Weldless), Oneida, N. Y. (See adv. index & branch offices, end of book)
Whitney Mfg. Co., 80 Huyshope, Hartford, Conn.

Chains (Marine Railway)

(See Chains, Cable & Marine)

*Chains ("Morse," Silent Running)

MORSE CHAIN CO. (High Speed), Ithaca, N. Y. (See adv. index, end of book)

Chains (Padlock)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

*Chains (Picture)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

*Chains (Pipe Hanger)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

Chains (Plumbers')

Bridgeport Brass Co., Bridgeport, Conn., & 233 B'way, New York
BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Corbin Screw Corporation, New Britain, Conn.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Glauber, M., & Co., 317 E. 58th, New York.
Hungerford, U. T. Brass & Copper Co. (Brass & Nickel Plated), 497 Pearl, New York
Oneida Community (Ltd.), Kenwood, N. Y.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Russell, J. M. Mfg. Co., Naugatuck, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
Waterbury Brass Goods Corporation, Waterbury, Conn.
White, H. G., Niagara Falls, N. Y.
Wire Goods Co., Worcester, Mass.
Zogg, Nicholas, 732 E 143d, New York

Chains (Pole)

(See Chains, Coil)

Chains (Porch Swing)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Columbus Chain Co., Columbus, O.
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)

*Chains (Post)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Chains (Pot)

Wire Goods Co. ("King's-2-Ring"), Worcester, Mass.
Woods-Sherwood Co. ("Sherwood's"), Lowell, Mass.

Chains (Power Transmission)

Baldwin Chain & Mfg. Co., Worcester, Mass.
Boston Gear Works, Norfolk Downs, Mass.
BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Dodge Mfg. Co., Mishawaka, Ind.
Duckworth Chain & Mfg. Co., Springfield, Mass.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Link Belt Co. ("Renold Silent"), N 39th cor Stewart av, Chicago, Ill., & 299 B'way, New York
Michigan Sprocket Chain Co. (Riveted Drive), Detroit, Mich.
Miller, Charles E. ("Brampton's" Imported), 97 Reade, New York
MORSE CHAIN CO. ("Morse" High Speed, Silent Running), Ithaca, N. Y. (See adv. index, end of book)
NEWHALL CHAIN, FORGE & IRON Co. (Automobile), 90 West, New York

Rhode Island Tool Co. (Drop Forged Link), Providence, R. I.
Schmidt Drive Chain Co., 265 B'way, New York
Whitney Mfg. Co., Hartford, Conn.

Chains (Pump)

(See also Chains, Galvanized Pump)

Woodhouse Chain Works, Trenton, N. J.

Chains (Quarry)

(See Chains, Crane; also Chains, Dredging)

Chains (Rafting)

Buhl Malicable Co., Detroit, Mich.
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
Seneca Chain Co., Kent, O.
White Hill Chain Works, Fieldsboro, N. J.
Woodhouse Chain Works, Trenton, N. J.

Chains (Railroad)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Carr, Jos. B. Co., Troy, N. Y.
Carter Iron Co., Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Enterprise Chain Works, Trenton, N. J.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
Monongahela Iron & Steel Co., Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
O'Leary, Arthur J. & Sons Co. (Crossing & Switch), 130 Lake, Chicago, Ill.
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
Round, David, & Son, 7625 B'way, S. E., Cleveland, O.
Standard Chain Co., Pittsburg, Pa.
Taylor, S. G. Chain Co., 98 Indiana, Chicago, Ill.
West End Rolling Mill Co. & Chain Works, Lebanon, Pa.
Woodhouse Chain Works, Trenton, N. J.
Woodhouse, Samuel, 3515 E 82d, S E, Cleveland, O.
Wyatt, Thomas Mfg. Co., Providence, R. I.

*Chains (Rein)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Chains (Roller)

Baldwin Chain & Mfg. Co., Troy, N. Y.
Caldwell, H. W. & Son Co. (Interlocking Bolted), 17th & Western av, Chicago, Ill.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Link Belt Co. (Malicable Iron), W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
Michigan Sprocket Chain Co., Detroit, Mich.
WEBSTER MFG. CO., 1075 W. 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
Whitney Mfg. Co. (Detachable or Riveted), Hartford, Conn.

Chains (Safety)

(See also Chains, Jack; also Chains, Plumbers')

Baker, Jas. H. Mfg. Co., Park bldg, Pittsburg, Pa.
BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
Phoenix Hardware Mfg. Co., Homer, N. Y.
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
Plume & Atwood Mfg. Co. (Brass), Waterbury, Conn., & 29 Murray, New York

Russell, J. M. Mfg. Co., Naugatuck, Conn.
Steel Car Forge Co., Pittsburg, Pa.; Works
Elwood City, Pa.
Turner & Seymour Mfg. Co., Torrington, Conn.
Waterbury Brass Goods Corporation, Water-
bury, Conn.
White Hill Chain Works, Fieldsboro, N. J.
Wire Goods Co., Worcester, Mass.

Chains (Sash)

Atlantic Co., 26 Rodney, Brooklyn, N. Y.
BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Grant Pulley & Hardware Co., 35 Warren, New
York
HUNGERFORD, U. T. BRASS & COP-
per Co. (Bronze), 497 Pearl, New York
Morton, Thomas (Bronze & Steel Cable), 183
Lafayette, New York
NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv.
index, end of book)
ONEIDA COMMUNITY (Ltd.), Dept. G
(Weldless, "American," "Niagara,"
"Eureka"), Oneida, N. Y. (See adv. index
& branch offices, end of book)
Phoenix Hardware Mfg. Co., Homer, N. Y.
Pulman Mfg. Co., Rochester, N. Y.
Russell, J. M. Mfg. Co., Naugatuck, Conn.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Wire Goods Co., Worcester, Mass.
Zogg, Nicholas, 732 E 143d, New York

*Chains (Scissors)

NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv.
index, end of book)

*Chains (Shoulder)

NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv.
index, end of book)

Chains (Sign)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
ONEIDA COMMUNITY (Ltd.), Dept. G
(Weldless, "American," "Niagara,"
"Eureka"), Oneida, N. Y. (See adv. index
& branch offices, end of book)

*Chains (Silent Running High Speed)

MORSE CHAIN CO. ("Morse" Chain
Drive), Ithaca, N. Y. (See adv. index, end
of book)

Chains (Spreader)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
NEWHALL CHAIN, FORGE & IRON CO.,
90 West, New York
NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv.
index, end of book)
ONEIDA COMMUNITY (Ltd.), Dept. G
(Weldless, "American," "Niagara,"
"Eureka"), Oneida, N. Y. (See adv. index
& branch offices, end of book)

Chains (Sprocket Wheel)

American Chain & Foundry Co. (Detachable
Sprocket), Majestic Bldg., Detroit, Mich.
Boston Gear Works, Norfolk Downs, Mass.
BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Buhl Malleable Co., Detroit, Mich.
Columbus Chain Co., Columbus, O.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
Dodge Mfg. Co., Mishawaka, Ind.
Ewart Mfg. Co., Indianapolis, Ind.
Hayden-Corbett Chain Co., Columbus, O.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
Jones & Laughlin Steel Co., Pittsburg, Pa.
Locke Steel Belt Co., Bridgeport, Conn.
McKay, Jas. & Co., Pittsburg, Pa.
Michigan Sprocket Chain Co., Detroit, Mich.
NEWHALL CHAIN, FORGE & IRON CO.,
90 West, New York
Round, David, & Son, 7625 B'way, S. E.,
Seneca Chain Co., Kent, O. Cleveland, O.
Standard Chain Co., Pittsburg, Pa.
Standard Sand Machine Co., Cleveland, O.
Stephens-Adamson Mfg. Co., Aurora, Ill.
Taylor Iron & Steel Co., High Bridge, N. J.,
& 1 B'way, New York
West End Iron Co., Lebanon, Pa.
Woodhouse Chain Works, Trenton, N. J.

*Chains (Stallion)

NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv.
index, end of book)

Chains (Stay)

(See Chains, Wagon)

Chains (Steam Shovel)

(See Chains, Dredge)

Chains (Steel Bushed)

Caldwell, H. W. & Son Co., 17th & Western
av, Chicago, Ill.
Diamond Chain & Mfg. Co., Indianapolis, Ind.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
Link Belt Co., W 39th cor Stewart av, Chica-
go, Ill., & 299 B'way, New York
Malin Co., 641 Long av., N. W., Cleveland, O.
WEBSTER MFG. CO., 1075 W. 15th, Chi-
cago, Ill., & 88 Reade, New York. (See
adv. index & branch offices, end of book)

Chains (Stone)

Columbus Chain Co., Columbus, O.
McKay, Jas. & Co., Germania Bank bldg.
Pittsburg, Pa.; Works: McKees Rocks, Pa.
NEWHALL CHAIN, FORGE & IRON CO.,
90 West, New York
Pollard, Jos. G. (Fitted with Steel Hooks), 141
Raymond, Brooklyn, N. Y.

Chains (Stud Link)

Carter Iron Co. ("Carter"), Pittsburg, Pa.
Columbus Chain Co., Columbus, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
McKay, Jas. & Co., Germania Bank bldg.
Pittsburg, Pa.; Works: McKees Rocks, Pa.
Monongahela Iron & Steel Co. ("Carter,"
"Monon" & "Misco"), Pittsburg, Pa.
NEWHALL CHAIN, FORGE & IRON CO.,
90 West, New York
Seneca Chain Co., Kent, O.
Standard Chain Co., Pittsburg, Pa.

Chains (Tie Out)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv.
index, end of book)

Chains (Trace)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Carr, Jos. B. Co., Troy, N. Y.
Columbus Chain Co., Columbus, O.
Mundorf, Geo. W., York, Pa.
NEWHALL CHAIN, FORGE & IRON CO.,
90 West, New York
NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv.
index, end of book)
Round, David, & Son, 7625 B'way, S. E.,
Seneca Chain Co., Kent, O. Cleveland, O.
Standard Chain Co., Pittsburg, Pa.
Todd Mfg. Co., New Albany, Ind.
West End Iron Co., Lebanon, Pa.
Woodhouse, Samuel, Cleveland, O.

Chains (Transfer)

BARTLETT, C. O. & SNOW CO.,
French st., Cleveland, O. (See adv. index,
end of book)
BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Buhl Malleable Co., Detroit, Mich.
Exeter Machine Works, Pittsburg, Pa.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
Link Belt Co., W 39th & Stewart av, Chica-
go, Ill., 299 B'way, New York
Michigan Sprocket Chain Co., Detroit, Mich.
Moline Malleable Iron Co., St. Charles, Ill.
WEBSTER MFG. CO., 1075 W. 15th, Chi-
cago, Ill., & 88 Reade, New York. (See
adv. index & branch offices, end of book)

Chains (Transom)

BRIDGEPORT CHAIN CO., Bridge-
port, Conn. (See adv. index, end of book)
Champlon Safety Lock Co., Geneva, O.
Reading Hardware Co., Reading, Pa.

Chains (Tubular)

Diamond Chain & Mfg. Co. (Tubular & Rivet),
Indianapolis, Ind.
Link Belt Co., W 39th & Stewart av, Chica-
go, Ill., & 299 B'way, New York

Chains (Wagon)

Columbus Chain Co., Columbus, O.
Hayden-Corbett Chain Co. (Stud Link), Colum-
bus, O.
McCoy & Linn Iron Co., Milesburg, Pa.

WELDLESS STEEL CHAIN

MADE IN THREE STYLES
AND FIFTY-SIX SIZES

"NIAGARA"

"EUREKA"

"AMERICAN"

TWICE AS STRONG AS WELDED
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ONEIDA, N. Y.

NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
ONEIDA COMMUNITY (Ltd.), Dept. G (Weldless, "American," "Niagara," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Seneca Chain Co., Kent, O.
 Standard Chain Co., Pittsburg, Pa.
 Starr, W. C. & Son, Richmond, Ind.
 Todd Mfg. Co., New Albany, Ind.

*Chains (Watch)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

*Chains (Weldless Steel Wire)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)

Chains (Well)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
 Columbus Chain Co., Columbus, O.
 McCoy & Linn Iron Co., Milesburg, Pa.
 McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
 Mundorf, Geo. W., York, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Standard Chain Co., Pittsburg, Pa.

Chains (Windmill)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
 McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
 Seneca Chain Co., Kent, O.
ONEIDA COMMUNITY (Ltd.), Dep't G (Weldless, "American," "Eureka"), Oneida, N. Y. (See adv. index & branch offices, end of book)
 Standard Chain Co., Pittsburg, Pa.

Chains (Wrecking)

Carr, Jos. B. Co., Troy, N. Y.
 Columbus Chain Co., Columbus, O.
 Hayden-Corbett Chain Co., Columbus, O.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 McKay, Jas. & Co., Germania Bank bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa.
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York
 Round, D. & Son, 2285 B'way, Cleveland, O.
 Seneca Chain Co., Kent, O.
 Standard Chain Co., Pittsburg, Pa.
 Taylor, S. G. Chain Co., 100 Indiana, Chicago, Ill.
 Weimer Chain & Iron Co. (Hand Made), Lebanon, Pa.
 West End Iron Co., Lebanon, Pa.
 Woodhouse, Samuel, Cleveland, O.

Chair Cane

(See Rattan & Reed Manufacturers)

Chair Machinery

(See Machinery, Chair)

Chairs (Cast Iron)

(See Fountains, Vases, Etc.; also Settees & Chairs, Iron)

Chairs (Folding)

Bausman, D. H. (Steel, High-Low Lawn), Bausman, Pa.
BURROWES, E. T. CO., THE ("Burrowes") Feather Weight, Portland, Me. (See adv. index & branch offices, end of book)
 Chicago Wire Chair Co. (Metal Frame), Chicago, Ill.
 Curtiss Bros. (Camp), Richland, N. Y.
 Kalamazoo Sled Co., Kalamazoo, Mich.
 Lattimer, W. H. & Sons (Canvas), Orweli, N. Y.
 Marks Adjustable Chair Co. (Also Adjustable), 50 E. 29th, New York
 Readsboro Chair Mfg. Co. (& Tables), Readsboro, Vt.
 Simmons Mfg. Co., 192 Michigan av., Chicago, Ill.
 Small, S. C. Furniture Co. (On Wheels), 90 Canal, Boston, Mass.

Stevens Chair Co. (Adjustable), 141 7th, Pittsburg, Pa.
SUN MFG. CO. (Camp & Lawn), Columbus, O. (See adv. index, end of book)

*Chairs (Hair Dressing & Manicuring)

ANDREWS, A. H. CO., 174 Wabash av., Chicago, Ill. (See adv. index & branch offices, end of book)

Chairs (Invalid)

Bernstein Mfg. Co. (Reclining & Rolling, etc.), 3d & Allegheny av., Philadelphia, Pa.
 Chicago Chair & Wheel Co., Chicago, Ill.
 Gendron Wheel Co., Toledo, O.
 Kalamazoo Sled Co. (Rocking & Reclining), Kalamazoo, Mich.
 Marks Adjustable Chair Co. (Wheel Chairs, etc.), 50 E 29th, New York
 Sackmann Mfg. Co. (Inc.) ("Barnhart," All Steel Reclining & Swinging), Akron, O.
 Sargeant Mfg. Co., Muskegon, Mich.
 Small, S. C. Furniture Co. (On Wheels), 90 Canal, Boston, Mass.

Chairs (Metal)

Royal Metal Mfg. Co. (Metal Chairs, Tables & Stools of Twisted Metal), 1817 Dearborn, Chicago, Ill.

Chairs (Rail)

Baughner, Kurts & Stewart, York, Pa.
 Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill.; Works: Harvey, Ill.
 Burnham & Duggan Railway Appliance Co. (For Paved Track), 89 State, Boston, Mass.
 Cornell, J. B. & J. M. Co. (Cast Iron), 26th & 11th av., New York
 Lorain Steel Co. (Drop Forged, Used Under Shallow Girder or Tee Rails in Paved Streets), Penna. bldg., Phila., Pa.
 Penna. Steel Co., Girard Trust bldg., Phila., Pa.
 Pettibone, Mulliken & Co. (Samson Head Chairs), 204 Dearborn, Chicago, Ill.
 Weir Frog Co., Beech & Highland av., Cincinnati, O.
 Wharton, Wm., Jr., & Co. (Inc.), 25th & Washington av., Phila., Pa.

Chairs (Rattan)

(See Furniture, Rattan & Reed)

Chairs (Reclining)

ANDREWS, A. H. CO., 174 Wabash av., Chicago, Ill. (See adv. index & branch offices, end of book)
 Andrews, E. N. ("Andrews" Faultless Adjustable), 3721 Indiana av., Chicago, Ill.
 Bernstein Mfg. Co. (Self-Propelling), 3d & Westmoreland, Phila., Pa.
 Comstock & McKee Mfg. Co., Greenfield, Ind.
 Fletcher & Webster Furniture Co., Nashua, N. H.
 Kalamazoo Sled Co., Kalamazoo, Mich.
 Marks Adjustable Chair Co. (Adjustable Reclining Rocking), 50 E 29th, New York
 Sargent Mfg. Co., Muskegon, Mich.
 Searritt, Comstock Co., B'way & Locust, St. Louis, Mo.
 Stevens Chair Co., 141 7th, Pittsburg, Pa.

Chairs (Revolving)

Barnard & Simonds Co., Rochester, N. Y.
 Bent, S. & Bro., Gardner, Mass.
 Bethel Mfg. Co., Bethel, Me.
 Bodenstein & Kuemmerle (Inc.), Phila., Pa.
 Burtch, Y. W. & Co., Jamestown, N. Y.
 Carriage & Toy Co., Baltimore, Md.
 Central Chair Co., Indianapolis, Ind.
 Chichester Bros. Chair Co. (Typewriter, Adjustable Back), 15 Elizabeth, New York
 Chipman, Geo. & Son, Baltimore, Md.
 Cleveland Store Fixture Co., Cleveland, O.
 Closterman, H., Cincinnati, O.
 Columbus Aseptic Furniture Co., Columbus, O.
 Conrades, J. H. Chair & Furniture Co., St. Crocker Chair Co., New York
 Crown Chair Mfg. Co., Evansville, Ind.
 Culler Furniture Co., Williamsport, Pa.
 Davis Chair Co. (Office & Typewriter), Marysville, O.
 De Frehn, W. & Sons, Johnstown, Pa.
 Delaware Chair Co., Delaware, O.

Dunn, Jno. A. & Co., Gardner, Mass.
 Eclipse Mfg. Co. (Office Arm Chairs, etc.), York, Pa.
 Ehlers, Robert J. Co., New York
 Finn Bros., New York
 Ford & Johnson Co., Chicago, Ill.
 Fort Smith Chair Co., Fort Smith, Ark.
 Grand Ledge Chair Co., Grand Ledge, Mich.
 Greenwood Bros. Co., Gardner, Mass.
 Gunlocke, W. H. Chair Co., Wayland, N. Y.
 Hale Co., New York
 Hartwig & Kempner, Baltimore, Md.
 Hechinger Bros. & Co., Baltimore, Md.
 Heywood Bros. & Wakefield, Gardner, Mass.
 Hubbard & Eldredge Co., Rochester, N. Y.
 Karpen, S. & Bros., Chicago, Ill.
 Kohn, Jacob & Josef, New York
 Logeman, F. H. Chair Mfg. Co., St. Louis, Mo.
 Marble, B. L. Chair Co., Bedford, O.
 Marble & Shattuck Chair Co. (Office Desk), Foster av. nr Doan, Cleveland, O.
 Marietta Chair Co., Marietta, O.
 Mason, J. W. Co., New York
 Milwaukee Chair Co., Milwaukee, Wis.
 Murphy Chair Co. (Office), Harper av., Detroit, Mich.
 Nichols & Stone, Gardner, Mass.
 Otsego Chair Co., Otsego, Mich.
 Ott, L. W. Mfg. Co., Indianapolis, Ind.
 Parkersburg Chair Co., Parkersburg, W. Va.
 Phoenix Chair Co., Sheboygan, Wis.
 Pierce, S. K. & Co., Gardner, Mass.
 Poughkeepsie Chair Co., Poughkeepsie, N. Y.
 Retting Furniture Co., Grand Rapids, Mich.
 Rossell Bros. & Co., Phila., Pa.
 Royal Metal Mfg. Co., 1817 Dearborn, Chicago, Ill.
 Sikes Chair Co., Buffalo, N. Y.
 Sikes Co., Phila., Pa.
 Sikes Consolidated Chair Co., New York
 Southern Chair Co., High Point, N. C.
 Taylor Chair Co., Bedford, O.
 Thonet Bros., New York
 Toledo Metal Furniture Co., Toledo, O.
 Tonk Mfg. Co., Chicago, Ill.
 Union City Chair Co., Union City, Pa.
 Webster Mfg. Co., Superior, Wis.
 Williams & Co., Toledo, O.

*Chairs (Shampoo)

ANDREWS, A. H. CO., 174 Wabash av., Chicago, Ill. (See adv. index & branch offices, end of book)

Chairs (Steamer)

Collegnon, A., Westwood, N. J.

*Chalk (Billiard)

AMERICAN CRAYON CO. (White & Colored, "Diamond," "Eureka"), Sandusky, O. (See adv. index & branch offices, end of book)

*Chalk (Bowling)

AMERICAN CRAYON CO. (Hand & Foot), Sandusky, O. (See adv. index & branch offices, end of book)

*Chalk (Carpenters')

AMERICAN CRAYON CO., Sandusky, O. (See adv. index & branch offices, end of book)

Chalk Lines

Draper, W. H. & Son (Also Fish Lines), Troy, N. Y.
 Gladding, B. F. & Co. (Also Cotton, Linen & Silk Fish Lines), S. Otselic, N. Y.
 Ossawan Mills Co., Norwich, Conn.
SAMSON CORDAGE WORKS, 88 Broad, Boston, Mass. (See adv. index, end of book)
SILVER LAKE CO., 78 Chauncy, Boston, Mass. (See adv. index, end of book)

*Chalk (Lump & Powdered)

AMERICAN CRAYON CO., Sandusky, O. (See adv. index & branch offices, end of book)
DOGGET, STANLEY, 101 Beckman, New York. (See adv. index, end of book)

Chalk Mfrs.

AMERICAN CRAYON CO. (Carpenters' Lump, Powdered, Bowling & Billiard), Sandusky, O., & Waltham, Mass. (See adv. index, end of book)
 Binney & Smith Co. (All Kinds), 81 Fulton, New York

Currie, Chas. E., Baxter av, Louisville, Ky.
Sandusky Crayon Co., Sandusky, O.
Steward, D. M. Mfg. Co., East End, Chattanooga, Tenn.
Stickney, Terrill & Co. (Importers), 31 Milk, Boston, Mass.

Chalk (Precipitated)

DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
Knappmann, Wm. & Co., 31 Nassau, New York
National Aniline & Chemical Co., 100 William, New York

*Chalk (Red Marking)

HARRISON SUPPLY CO. (for Stone Trade), 5 & 7 Dorchester av Extension, Boston, Mass. (See adv. index, end of book)

Chamois Skins

Rhodes, James H., & Co. (English & American), 117 Kenzie, Chicago, Ill.

Chandeliers

(See Gas & Electric Fixtures)

*Changeable Office & Loft Building Directories.

TABLET & TICKET CO., 70-86 W Jackson boul, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

Changers (Pole)

American Elec. Telephone Co., 64th & State, Chicago, Ill.
Current Electric Co. ("Standard"), 50 State, Chicago, Ill.
Holtzer-Cabot Electric Co. (Telephone), Brookline, Mass.
Kellogg Switchboard & Supply Co., Green & Congress, Chicago, Ill.
Sandwich Pole Changer Co. (Sandwich Elec. Co. Prop't's), Sandwich, Ill.
Warner Electric Co., Muncie, Ind.

Chaplets (Foundry)

Benskin Mfg. Co., Canton, Ohio.
Burdick & Son (Core), Albany, N. Y.
Cleveland Chaplet Mfg. Co., Cleveland, O.
Crescent Brass & Pin Co., Detroit, Mich.
Gem Mfg. Co., Pittsburg, Pa.
Fanner Mfg. Co., Cleveland, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Holder Mfg. Co., Indianapolis, Ind.
Lindsay, W. W., & Co., Phila., Pa.
Paxson, J. W. Co., 1021 N Delaware av. Phila., Pa.
Pratt Chuck Co., Frankfort, N. Y.
Shanafelt Mfg. Co., Canton, O.
U. S. Chaplet & Supply Co., 140 Cedar, New York

Chaplets (Radiator)

Crescent Brass & Pin Co. (Double Head Chaplets), Detroit, Mich.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pratt Chuck Co., Frankfort, N. Y.

Charcoal

Ballard, J. W., Binghamton, N. Y.
Bartley, John & Co., Mount Alton, Pa.
Berger Bros., 1217 State, Chicago, Ill.
Binney & Smith Co., 81 Fulton, New York
Boyne City Chemical Co., Boyne City, Mich.
Bradford Chemical Co., Bradford, Pa.
Brown, L. S. Charcoal Co. (Lump, Flour & Granulated), Springfield, Mass.
Cleveland-Cliffs Iron Co., Cleveland, O.
Cummer, Diggins & Co. (Retort), Cadillac, Mich.
Desmond, F. C., Praverse City, Mich.
DOGGETT, STANLEY (Powdered), 101 Beekman, New York. (See adv. index, end of book)
Immerman, A. & Co., Thompsonville, Mich.
Kelly, Thos. P., 544 W 22d, New York
Long Island Charcoal Co., 78 N 6th, Brooklyn, N. Y.
McCormick, J. S. Co., 25th & A. V. R'y, Pittsburg, Pa.
Manufacturers' Charcoal Co., Bradford, Pa.
Miller Bros., Colden, N. Y.
Montour Charcoal Co., Kansas City, Mo.
Newman, E. B. Charcoal Co., 548 W 25th, New York

Noble Electric Steel Co., San Francisco, Cal.
Obermayer, S., Co., 647 Evans, Cincinnati, O.
Onota Charcoal Mfg. Co., Onota, Mich.
Pioneer Iron Co., Negaunee, Mich.
Rasmussen, S. P., 327 Stevens, St. Paul, Minn.
Rowand, John R. (ReCarbonized, Pulverized & Granulated), Clementon, N. J.
Russell Chemical Co., Russell, Pa.

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)
SPRINGFIELD FACING CO. (In Every Form), Springfield, Mass. (See adv. index, end of book)
Spring Valley Iron & Ore Co., Monadnock Blk., Chicago, Ill., & Spring Valley, Wis.
Stevens, Frederic B. (Powdered), 3d av. & Larned, W., Detroit, Mich.
Taylor, J. W., Summerville, S. C.
Wolf, Penrose, Rockwood, Pa.
Wright, T. B. & Co., Mariners' & Merchants' bldg, Phila., Pa.

Charcoal (Bone)

Baugh & Sons Co. (Animal Charcoal), 20 S Delaware av, Phila., Pa.
Binney & Smith Co., 81 Fulton New York.
Bower, Henry Chemical Mfg. Co., 29th & Gray's Ferry Rd., Phila., Pa.

Charging Sets (Automobile)

Dayton Electrical Mfg. Co. ("Apple's"), Dayton, O.
Elwell-Parker Electric Co., 4222 Hamilton av, N E, Cleveland, O.
GENERAL ELECTRIC CO. (Arc Rectifier), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Merriam-Abbott Co., 58 E Prospect, Cleveland, O.
Richardson Engineering Co., Hartford, Conn.
Wagner Electric Mfg. Co., 2015 Locust, St. Louis, Mo.
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank Bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Chasers (Screw)

Brubaker, W. L. & Bros., Millersburg, Pa.
Card Mfg. Co., Mansfield, Mass.
Polk, A. J. & Son, Millersburg, Pa.

Check Blanks (Brass)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Schwerdtle Stamp Co. (Key, Time & Pay), Bridgeport, Conn.
Scovill Mfg. Co., Waterbury Conn.
Waterbury Brass Goods Corporation, Waterbury, Conn.

Check Perforators

Childs, S. D. & Co., 200 S Clark, Chicago, Ill.
Cummins, B. F. Co., 42 Jackson boul, Chicago, Ill.
Ingersoll, Robt. H., & Bro. ("J. H. Williams Patent"), 45 John, New York
Pritchard-Strong Co., Rochester, N. Y.
Russell, Wm. F. ("Protectographs"), 5 Beekman, New York
Wesley Mfg. Co., 31 Beekman, New York

Check Protectors

American Novelty Co. ("Little Giant"), Syracuse, N. Y.
Angell, E. E. & Co. ("Printamont"), 366 Atlantic, Boston, Mass.
Defiance Machine Co. ("Defiance," "Twentieth Century"), Rochester, N. Y.
Dorman, J. F. W. Co., 256 N Calvert, Baltimore, Md.
Hill, B. B. Mfg. Co., 1020 New Market, Philadelphia, Pa.
Hoggson & Pettus Mfg. Co., New Haven, Conn.
Hunt, Edward ("Protectograph"), Cuyahoga Bldg., Cleveland, O.
Ingersoll, Robt. H., & Bro. ("J. H. Williams Patent"), 45 John, New York
Peerless Stamp & Stencil Co., Muncie, Ind.
SMITH, R. H. MFG. CO., Springfield, Mass. (See adv. index, end of book)
Stewart Check Protector, Borden blk., Chicago, Ill.
Todd, G. W. & Co. ("Protectograph"), Rochester, N. Y.

*Checks (Advertising)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Checks (Baggage)

AMERICAN RAILWAY SUPPLY CO., 26 Park pl, New York. (See adv. index, end of book)
Bennett, Hiram H. T., 58 Griswold, Detroit, Mich.
Brass Goods Mfg. Co., Nevins Union, Brooklyn, N. Y.
Chicago Car Seal & Mfg. Co., 108 N Green, Chicago, Ill.
Dennison Mfg. Co. (Paper & Cloth), 26 Franklin, Boston, Mass., & 15 John, New York
Detroit Rubber Stamp Co., 96 Griswold, Detroit, Mich.
Gibson, A. C. Co., 338 Wash'n, Buffalo, N. Y.
Hanson, C. H., 44 Clark, Chicago, Ill.
Holl, T. & Co., 333 Main, Buffalo, N. Y.
Meyer & Wenthe, 90 Dearborn, Chicago, Ill.
Ness, Geo. M., Jr., 61 Fulton, New York
New York Stencil Works, 100 Nassau, New York

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Peerless Stamp & Stencil Co., Muncie, Ind.
PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)
Robbins, John Mfg. Co. (Also Red Fibre Key Tags), 58 Kneeland, Boston, Mass.
Sackmann Mfg. Co. (Brass & Aluminum, for All Purposes), 19 Cherry, Akron, O.
Schwerdtle Stamp Co., Bridgeport, Conn.
Spencer, Wm. W., 206 Post sq, Cincinnati, O.
Stafford, Nelson Co., 67 Fulton, New York
Stewart & Holiman (Brass), 201 B'way, New York

Tenney, J. F. Co., 152 Lake, Chicago, Ill.
Volk Stamp & Stencil Co., 62 Griswold
Wilcox, W. W. & Co., 201 Lake, Chicago, Ill.
Woodman, R. Mfg. & Supply Co., 63 Oliver, Boston, Mass.

Checks (Factory Time)

AMERICAN RAILWAY SUPPLY CO., 26 Park pl, New York. (See adv. index, end of book)
DELAWARE HARD FIBRE CO. (Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere, Del. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING Co., Niagara Falls, N. Y. (See adv. index, end of book)
Peerless Stamp & Stencil Co., Muncie, Ind.
PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY CO. (Fibre), Wilmington, Del. (See adv. index, end of book)
Woodman Mfg. & Supply Co., 63 Oliver, Boston, Mass.

Checks (Identification)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls. (See adv. index, end of book)
PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)
Sackmaun Mfg. Co. (Inc.), Akron, O.

*Checks (Key)

AMERICAN RAILWAY SUPPLY CO., 26 Park pl, New York. (See adv. index, end of book)

Checks (Slot Machine)

AMERICAN RAILWAY SUPPLY CO., 26 Park pl., New York. (See adv. index, end of book)
Hanson, C. H. (Also Pay Checks, etc.), 44 S Clark, Chicago, Ill.

Checks (Trade)

Aluminum Mfg. Co., Two Rivers, Wis.
AMERICAN RAILWAY SUPPLY CO., 26 Park pl, New York. (See adv. index, end of book)

Hanson, C. H., 44 Clark, Chicago, Ill.
NIAGARA FALLS METAL STAMPING
 Works, Niagara Falls, N. Y. (See adv.
 Index, end of book)
 Peerless Stamp & Stencil Co., Muncie, Ind.
PHOENIX SPECIALTY MFG. CO., 48
 Duane, New York. (See adv. Index, end
 of book)
 Schwerdtle Stamp Co., Bridgeport, Conn.
 Swisher, R. D. Mfg. Co., 150 5th av, Chicago,
 Ill.

Cheese Box Machinery

(See Machinery, Cheese Box)

Cheese Cloth

Devon Mills (Geo. S. Browne, Prop.) (Fine &
 Coarse for All Uses), Providence, R. I.

Chemical Apparatus

Bausch & Lomb Optical Co., Rochester, N. Y.
 Boekel, Wm. & Co., 518 Vine, Phila., Pa.
 Braun, F. W., Los Angeles, Cal.
 Berge, J. & H., 95 John, New York
 Calre, Justinian Co., 565 Market, San Fran-
 cisco, Cal.

Denver Fire Clay Co., Denver, Col.
 Elmer & Amend, 205 3d av, New York
 Feidt, Geo. D., & Co., 27 N. 7th, Phila., Pa.
 Golden Pressed & Firebrick Co., Denver, Col.
 Graham, Chas., Chemical Pottery Wks. ("Stone
 ware," Acid Proof), 986 Met. av. Brooklyn,
 Greiner, Emil Co., 45 Cliff, New York N. Y.
 International Instrument Co., 23 Church, Cam-
 bridge, Mass.
 Knott, L. E. Apparatus Co., 15 Harcourt, Bos-
 ton, Mass.

Kohlbusch, Sophia M., 194 B'way, New York
QUEEN & CO. (Inc.), n. w. c 8th &
Arch, Philadelphia, Pa. (See adv. index,
 end of book)

Sargent, E. H. & Co., 143 E Lake, Chicago, Ill.
 Stoelting, C. H. Co., Chicago, Ill.
 Taunton Crucible Co. (Black Lead Crucibles,
 Stoppers, Nozzles, Covers, Dips, Basins,
 Stirrers, Domes, etc., for Assayers & Re-
 finers), Office & Works, Taunton, Mass.
 Thomas, A. H. Co., 1200 Walnut, Philadel-
 phia, Pa.

Chemicalizers for Street-Alley Flushing

Thompson, Walter M., 835 W 5th, Cincinnati,
 Ohio

Chemicals

Alba Mfg. Co., Aurora, Ill.
 Ashley, T. C. & Co., 54 High, Boston, Mass.
 Avery Chemical Co., Boston, Mass.
 Barrett Mfg. Co., 17 Battery pl, New York,
 & Philadelphia, Pa.
 Baugh & Sons Co., 20 S Delaware av, Phila.,
 Pa.
 Billings-Clapp Co., 178 Freeport, Dor., Bos-
 ton, Mass.
 Bower, Henry Chemical Mfg. Co., 29th &
 Gray's Ferry Rd., Phila., Pa.
 Bucks Chemical Co., Wilmington, Del.
 Butterworth-Judson Co., Newark, N. J.
 Carbondale Chemical Co. (Ammonia & Chloride,
 etc.), Carbondale, Pa.
 Clark, Fred. G. Co. (Heavy Chemicals, for
 Wholesale Trade Only), Cleveland, O.
 Contact Process Co., Buffalo, N. Y.
 Cooper, Chas. & Co., 194 Worth, New York
DOGGETT, STANLEY, 101 Beekman,
 New York. (See adv. Index, end of book)
 Dow Chemical Co., Midland, Mich., & Cleve-
 land, O.
 Elmer & Amend (Jobbers, etc.), 205 3d av, New
 York
 Gabriel & Schall (Importers), 205 Pearl, New
 York
 General Chemical Co., 25 Broad, New York
 Grasseill Chemical Co., Cleveland, O., & 63
 Wall, New York
 Harshaw, Fuller & Goodwin Co., 319 Electric
 bldg., Cleveland, Ohio
 Harshaw, Fuller & Goodwin Co., 319 Electric
 bldg., Cleveland, O.
 Innis, Spelden & Co. (Nitrate of Soda, Ani-
 lines, etc.), 46 Cliff, New York
 Kilpstein, A. & Co., 122 Pearl, New York
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Mechling Bros. Mfg. Co., Philadelphia, Pa.
 Merrimac Chemical Co., Boston, Mass.
 National Aniline & Chemical Co., 100 William,
 New York
 Paper Makers' Chemical Co. (Paper Makers),
 Easton, Pa.
 Rhodes, Jas. H., & Co. (Industrial Chemicals),
 117 Kenzie, Chicago, Ill.

Roberts Chemical Co., Niagara Falls, N. Y.
SALMON, HAMILTON H. & CO., 88
 Wall, New York
 Salomon, L. A. & Bro., 210 Pearl, New York
 Schoellkopf, Hartford & Hanna, Buffalo, N. Y.
 Stamford Mfg. Co. (Chemicals & Dyestuffs), 88
 Wall, New York, & Stamford, Conn.
 Sullivan Chemical Co., Acidalia, N. Y.
 Talcott, C. H. & Co., Hartford, Conn.
 Taylor, Geo. F. Co., 80 Pine, New York
 Thayer, E. M. & Co., 411 Atlantic av, Boston,
 Mass.

Thomsen Chemical Co., Race & Winder, Bal-
 timore, Md.
 Union Sulphur Co. (Sulphur Only), 82 Beaver,
 New York

Chemicals (Battery)

(See Battery Chemicals)

Chemicals (Mantle, Incandes- cent Light)

Brauer, F. M., 415 W 46th, New York
 Lieber, H. & Co., 1 Platt, New York
 Pfatz, Henry, 300 Pearl, New York
 Reno, Morris, 100 William, New York

Chemicals (Nickel & Electroplat- ing)

Hanson & Van Winkle Co., 219 Market, New-
 ark, N. J.
 Zucker, Levett & Loeb Co., 529 W 25th, New
 York

Chemicals & Gases (Liquefied)

Hecla Compressed Gas Co., Chelsea, Mass.
 Liquid Carbonic Co., 67 N Wells, Chicago, Ill.
 White, S. S., Dental Mfg. Co., 1130 Chestnut,
 Philadelphia, Pa.

Chests (Cedar)

Curtis Cabinet Co., Jamestown, N. Y.
 Vestal Lumber & Mfg. Co. ("Tennessee" Red
 Cedar), Knoxville, Tenn.

Chimes (Automobile)

BARCO BRASS & JOINT CO. ("Barco"
 Four Toned Motor), 50 N. Jefferson, Chi-
 cago, Ill. (See adv. Index, end of book)

Chimes (Saddle, Pole, Hame, Etc.)

Starr Bros. Bell Co., East Hampton, Conn.

*Chimney Blocks (Air Space)

AMERICAN CONCRETE CO., 80 William
 New York. (See adv. Index, end of book)

*Chimney Cowl

MEYERS, FRED. J. MFG. CO., Ham-
 ilton, O. (See adv. index, end of book)
SCHREIBER, L. & SONS CO., 8th &
 Eggleston av, Cincinnati, O., & 1133 B'way,
 New York. (See adv. index, end of book)

Chimney Pipe

(See Flue Linings)

Chimney Tops

American Sewer Pipe Co., Bessemer bldg, Pitts-
 burg, Pa.

Baltimore Terra Cotta Works, Baltimore, Md.
 Buckeye Fire Clay Co., Uhrichsville, O.
 California Clay Mfg. Co., Los Angeles, Cal.
 Chattanooga Sewer Pipe & Fire Brick Co.,
 Chattanooga, Tenn.
 Clawson, L. E. & Co., 1340 Market, San Fran-
 cisco, Cal.

Dee, Wm. E., Clay Mfg. Co., 169 Jackson
 boul., Chicago, Ill.

Dickey, W. S. Clay Mfg. Co., N. Y. Life
 bldg., Kansas City, Mo.

Dunlap Mfg. Co. (Underground), Dunlap, Iowa
 Elmira Sewer Pipe & Fire Brick Co., Elmira,
 N. Y.

Evans & Howard Fire Brick Co., 920 Market,
 St. Louis, Mo.

Excelsior Fire Clay Co. ("Excelsior"), Lis-
 bon, O.

Gladding, McBean & Co. (& Pipe), Crocker
 Bldg., San Francisco, Cal. Works: Lin-
 coln, Cal.

Jacobus, P. H. ("U. S." Combined Top &
 Protector), Millstadt, Ill.

Laclede Fire Brick Mfg. Co., Manchester &
 Sulphur avs, St. Louis, Mo.

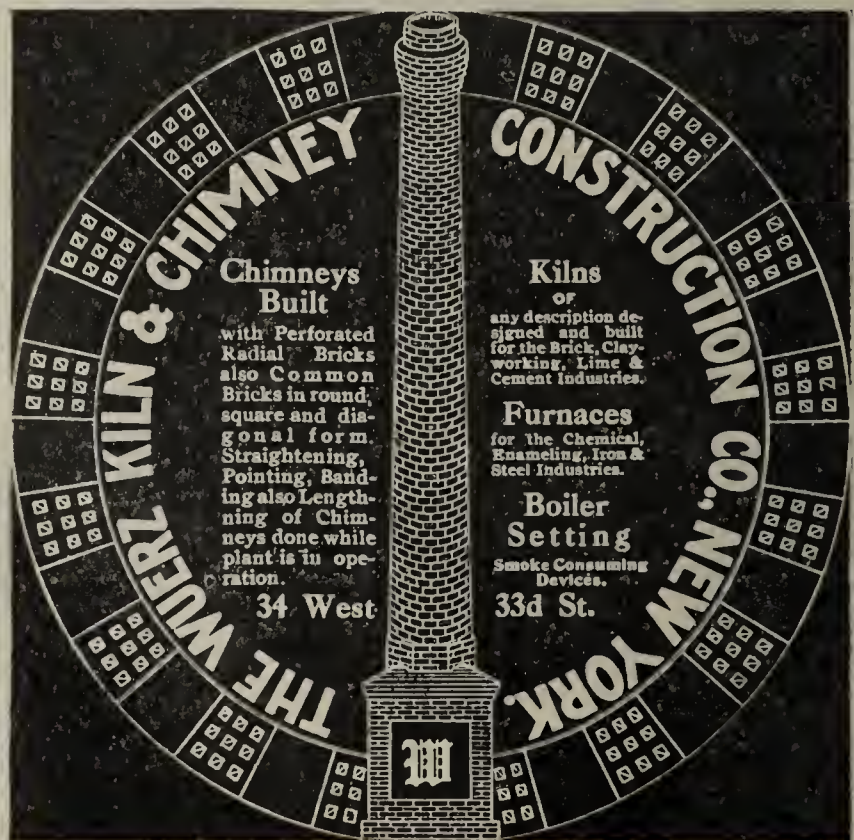
Little Falls Fire Clay Co., Little Falls, Wash.
 Macomb Sewer Pipe Co., Macomb, Ill.

Monmouth Mining & Mfg. Co., Monmouth, Ill.
 New York Pottery Co., Fuller bldg, New York

Pacific Clay Mfg. Co., Los Angeles, Cal.
 Pittsburg Sewer Pipe & Conduit Co., Pittsburg,
 Kan.

Reeve, Augustus, Camden, N. J.
 Robinson Clay Product Co., Akron, O.
 Southern Terra Cotta Works, Atlanta, Ga.

Stevens, H. Sons Co., Macon, Ga.
 Streater Clay Mfg. Co., Streater, Ill.



Chimney Tops (Revolving)

BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
 Feld, Geo. A. Co., 164 E 12th, New York
 Iwan Bros., South Bend, Ind.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
OSBORN MFG. CO. ("Pond's"), 5401 Hamilton av., N E. Cleveland, O. (See adv. index, end of book)
 Powers & Williams ("Powers"), Streator, Ill.

Chimney Tops (Slate)

(See Slate Stair Treads & Risers)

Chimneys (Concrete)

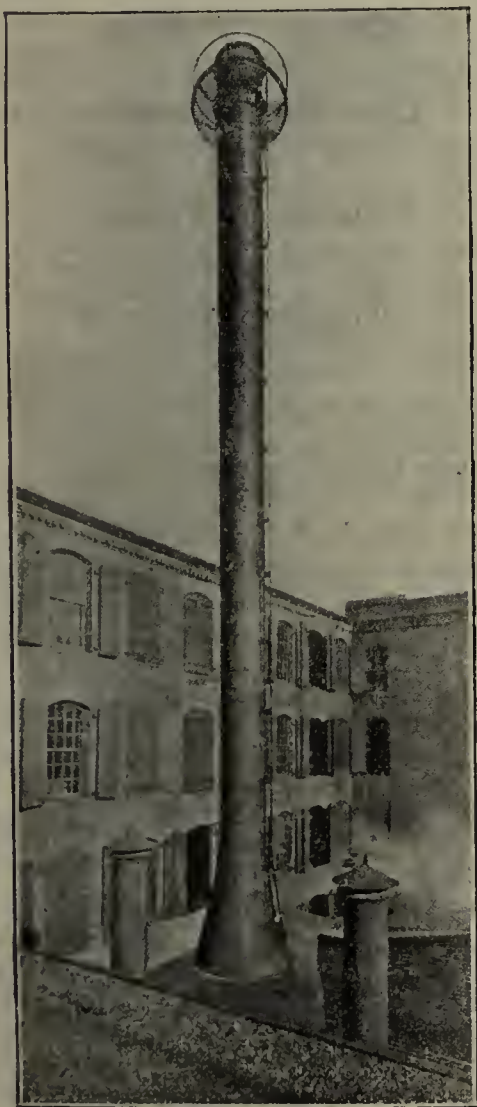
Concrete Construction Co. (Re-Inforced Tapering), Bailey bldg., Philadelphia, Pa.
 Heine Chimney Co. (Re-Inforced Concrete), Unity bldg., Chicago, Ill.

Steel Chimneys and Breechings,

Stand Pipes, Tanks,

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CONNERY & CO., Ltd.,

NINTH AND MASTER STS.,
 PHILA., PA.

Metal Concrete Chimney Co. (Reinforced Concrete), Chemical Bldg., St. Louis, Mo.
TRUSSED CONCRETE STEEL CO., Trussed Concrete Bldg., Detroit, Mich. (See adv. index & branch offices, end of book)
 Weber Co. (Reinforced Concrete), 204 Dearborn, Chicago, Ill.

Chimneys for Power Plants

(See Smokestacks, Steel; also Chimneys, Steel)

Chimneys (Lamp)

American Lamp Glass Co., Evansville, Ind.
 Gill Bros. Co., Steubenville, O.
 La Bastie Glass Co., Ottawa, Ill.
 Lippincott Glass Co., Alexandria, Ind.
 Machetb-Evans Glass Co., Pittsburg, Pa.
 Nilan Glass Co., Point Marion, Pa.

Chimneys (Mica)

Canton Mica Mfg. Co., Canton, O.
 Gleason, E. P. Mfg. Co., 37 Murray, New York
 Huse, Jos. & Son, 95 Blackstone, Boston, Mass.
 Mica Mfg. Co., 307 W B'way, New York
 North Carolina Mica Co., 84 North, Boston, Mass.
 Reichman, Geo., 1406 N 10th, Phila., Pa.
 Storrs Mica Co., Owego, N. Y.

Chimneys of Perforated Radial Blocks

(See also Chimneys, Concrete)

Custodis, Alphons Chimney Construction Co., 99 Nassau, New York
 Heine Chimney Co., Unity bldg., Chicago, Ill.
 Heinicke, H. R. (Inc.), 147 4th av., New York
 Kellogg, M. W. Co. (Corrugated Radial Brick), 50 Church, New York
 Tatnall Engineering Co. ("Alphons Custodis"), Arcade bldg., Phila., Pa.
WUERZ KILN & CHIMNEY CONSTRUCTION CO., 34 W. 33rd, New York. (See adv. on preceding page)

Chimneys (Steel)

(See also Smoke Stacks, Steel)

Aurora Boiler Works (Inc.), (Self-Supporting), Aurora, Ill.
 Birmingham Boiler Works, Birmingham, Ala.
CANTON BOILER & ENGINEERING CO. (Self-Supporting), Canton, O. (See adv. index, end of book)
 Chicago Bridge & Iron Works (Horace E. Horton, Prop.) (Self-Supporting), W 105th & Throop, Chicago, Ill.
 Coatesville Boiler Works (Self-Supporting), Coatesville, Pa.
CONNERY & CO. (Self-Supporting), 9th & Master, Phila., Pa. (See adv. in preceding column)
 Frick Grate Bar Co. (Self-Supporting), 421 Chestnut, Phila., Pa.
 Heine Chimney Co. (Self-Supporting), Unity bldg., Chicago, Ill.
KEELER, E. CO. (Self-Supporting), Williamsport, Pa. (See adv. index & branch offices end of book)
KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan av., Chicago, Ill. (See adv. index, end of book)
 Lindsay, W. W. & Co., 1502 Market, Phila., Pa.
MACKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
MICHELMANN STEEL CONSTRUCTION CO. (Self-Supporting), Quincy, Ill. (See adv. index, end of book)
 Novelty Steam Boiler Works ("Triplett & Jennings") (Self-Supporting), 917 S Howard, Baltimore, Md.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Sharon, Pa., & Farmers' Bank bldg., Pittsburg, Pa. (See adv. index, end of book)
 Petty, J. K. & Co. (Lebanon Boiler Works) (Self-Supporting), Stephen Girard bldg., Philadelphia, Pa.; Works: Lebanon, Pa.
 Philadelphia Iron Works, 18th & Penna. av., Phila., Pa.
 Pittsburg Steel Construction Co., Lewis Bldg., Pittsburg, Pa. Works: Economy, Pa.
 Pollock, Wm. B. Co. (Self-Supporting), Youngstown, O.
REEVES BROS. CO. (Self-Supporting), Alliance, O. (See adv. in next column; branch offices, end of book)

Ritter-Couley Mfg. Co. (Self-Supporting), Pittsburg, Pa.
SCHREIBER, L. & SONS CO., 8th & Eggleston av., Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
 Treadwell, M. H. Co., 90 West, New York
 Variety Iron & Steel Works Co., Cleveland, O.
 Wetherill, Robt. & Co. (Self-Supporting), Chester, Pa.

Chimneys & Shades (Incandescent Gas)

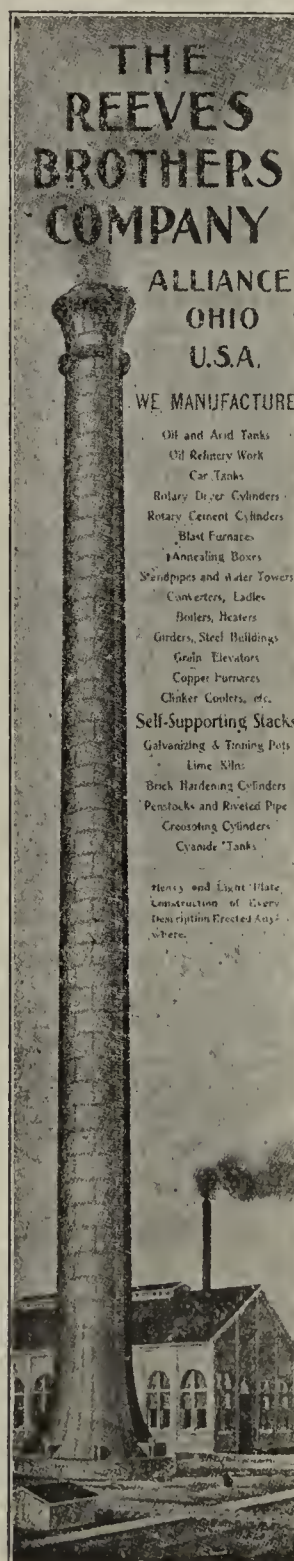
(See Shades & Reflectors, Glass & Porcelain)

Chippers (Extract Wood)

Mitts & Merrill, Saginaw, Mich.

Chisels (Box)

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Carver Tool Works, Spring Valley, N. Y.
 Drew C. & Co., Kingston, Mass.
 Humason & Beckley Mfg. Co. (Cast Steel), New Britain, Conn.



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 Oil Refinery Work,
 Car Tanks,
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 Rotary Cement Cylinders,
 Blast Furnaces
 Annealing Boxes,
 Standpipes and Water Towers.

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 Car Tanks
 Rotary Dryer Cylinders
 Rotary Cement Cylinders
 Blast Furnaces
 Annealing Boxes
 Standpipes and Water Towers
 Converters, Ladles
 Boilers, Heaters
 Girders, Steel Buildings
 Grain Elevators
 Copper Furnaces
 Clinker Coolers, etc.
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 Brick Hardening Cylinders
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 Creosoting Cylinders
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 Cyanide Tanks,
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Alliance, Ohio,
 U. S. A.

Johnson, Wm. (Hedberg Works), Newark, N. J.
Krauter & Co., Newark, N. J.
Stortz, John, & Co., 210 Vine, Phila., Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B." Solid Tool Steel Claw), 875 W Carroll av, Chicago, Ill.

Chisels (Brick)

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
Braunsdorf-Mueller Co., Elizabeth, N. J.
Carver Tool Works, Spring Valley, N. Y.
Collins Co., Collinsville, Conn., & 212 Water, New York
Crescent Novelty Mfg. Co., St. Louis, Mo.
Doble, Abner Co., San Francisco, Cal.
Evansville Tool Works, Evansville, Ind.
Hiles, C. A. & Co., 14th & Western av., Chicago, Ill.
Marshalltown Trowel Co., Marshalltown, Iowa
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Stortz, Jno. T., 210 Vine, Philadelphia, Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Chisels (Calking)

ANDERSON FORGE & MACHINE CO., 271 Guolin, Detroit, Mich. (See adv. index, end of book)
BERNZ, OTTO (Plumbers'), S 13th & S Orange av., Newark, N. J. (See adv. index, end of book)
Johnson, Wm. (Hedberg Works), Newark, N. J.
Mueller, H. Mfg. Co., Decatur, Ill.
Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.

Chisels (Carpenters')

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros. (Socket & Tang), Millbury, Mass.
Buck Chas., Millbury, Mass.
Evansville Tool Works, Evansville, Ind.
Falls Mfg. Co. (Round & Flat), 12 Drumm, San Francisco, Cal.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Hazel, Atlas Glass Co., Wheeling, W. Va.
IRVING MFG. & TOOL CO. (Jos. T. McCoy Co., Prop.) ("Bashaw's"), 169 Chambers, New York. (See adv. index, end of book)
Jennings, C. E. & Co., 42 Murray, New York
Krauter & Co. (Ripping), Newark, N. J.
Mack & Co. ("D. R. Barton"), Rochester, N. Y.
NIAGARA HANDLE & FERRULE CO., 321 No. Holliday, Baltimore, Md. (See adv. index, end of book)
New England Specialty Co., N. Easton, Mass.
Ohio Tool Co., Columbus, Ohio.
Peck, Stow & Wilcox Co., Southington, Conn.
Plumb, Fayette R. (Inc.), F'kd., Phila., Pa.
Reliance Edge Tool Co. ("Reliance"), Youngstown, O.
Rockford Bit Co., Kokomo, Ind.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Sag Harbor Tool Co., Sag Harbor, N. Y.
Swan, Jas. Co., Seymour, Conn.
White, L. & I. J. Co., Buffalo, N. Y.
Winsted Edge Tool Works ("T. H. Witherby"), Winsted, Conn.
Yale Mfg. Co., Yalesville, Conn.

Chisels (Cold & Cape)

ANDERSON FORGE & MACHINE CO., 271 Guolin, Detroit, Mich. (See adv. index, end of book)
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Buck Bros., Millbury, Mass.
Carver Tool Works, Spring Valley, N. Y.
Cleveland Steel Tool Co., 1144 W. 3d, Cleveland, O.
Cronk & Carrier Mfg. Co. (Cold Chisels Only), Elmira, N. Y.
Dicke Tool Co., Downers Grove, Ill.
Drew, C. & Co., Kingston, Mass.
Duffy Mfg. Co., 125 Indiana, Chicago, Ill.
Evansville Tool Works, Evansville, Ind.

Falls Mfg. Co., San Francisco, Cal.
Hammond, C. & Son, Ogontz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hazel Atlas Glass Co., Wheeling, W. Va.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.

Johnson, Wm. (Hedberg Works), Newark, N. J.
Kilborn & Bishop Co. (Drop Forged), 81 Lloyd, New Haven, Conn.
Klein-Logan Co. (Cold, Hand Clipping), S 13th & Breed, Pittsburg, Pa.
Krauter & Co., 577 18th av, Newark, N. J.
Mound Tool & Scraper Co. (Engineers' Chums), 710 Howard, St. Louis, Mo.
Mueller, H. Mfg. Co., Decatur, Ill.
National Cutlery Co., Detroit, Mich.

NIAGARA HANDLE & FERRULE CO., 321 No. Holliday, Baltimore, Md. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.
Polk, A. J. & Son, Millersburg, Pa.
Schutte, E. G. & Co., 230 Stark, Cincinnati, Ohio

Smith, H. D., & Co. ("S" Cold Chisels, Drop Forged), Plantsville, Conn.
Snell Mfg. Co. (Cold Chisels only), Elskdale, Mass.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.
STRONG MACHINERY & SUPPLY CO. ("Strong's" Special), 48 Franklin, New York. (See adv. index, end of book)

Syracuse Twist Drill Co. (Cold Chisels Only), Syracuse, N. Y.
Therlen Tool Works, 116 1st av, N Minneapolis, Minn.

Tuck Mfg. Co. (Cold Chisels Only), Brockton, Mass.

Vaughn & Bushnell Mfg. Co. ("V. & B." Cast Steel), 875 W Carroll av, Chicago, Ill.

Verona Tool Works, Verona, Pa., & Murtland bldg, Pittsburg, Pa.

Washington Cutlery Co., Watertown, Wis.
WHITMAN & BARNES MFG. CO. (Cold Only), Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Wilcox, Crittenden & Co., (Cold Chisels Only), Middletown, Conn.

Chisels (Floor)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Mueller, H. Mfg. Co., Decatur, Ill.
Stortz, Jno. & Son, 210 Vine, Philadelphia, Pa.

Chisels (Hollow Mortising)

Forrest City Bit & Tool Co., Rockford, Ill.
Pugh, Job T., 3105 Ludlow, Philadelphia, Pa.

Chisels (Ice)

American Fork & Hoe Co., Am. Trust bldg, Cleveland, O.
Black, John B. ("Wm. Beatty & Sons" with Socket), Chester, Pa.
Bradley's G. W. Sons (Inc.), Westport, Conn.
Browne & Dowd Mfg. Co. ("B. & D. Co."), Deuse, J. S., Chester, Conn. Meriden, Conn.
Gilchrist Co., Newark, N. J.
Hiles, C. A. & Co. (Chisels, Bars, etc., for Ice Houses), 14th & Western av, Chicago, Ill.
Iowa Farming Tool Co., Fort Madison, Iowa
Landers, Frary & Clark (Steel Blades), New Britain, Conn.
Stortz, John, & Co., 210 Vine, Phila., Pa.
Wagner Mfg. Co., Cedar Falls, Iowa
White, Ira F., & Son Co., Newark, N. J.
Williams, A. C., Ravenna, O.
Wrightsville Hardware Co., Wrightsville, Pa.

Chisels (Ship)

Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.
Bradley's, G. W. Sons (Inc.) (With Socket), Westport, Conn.

Chisels (Stone Cutters')

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
Atha Tools Co., Newark, N. J.
Brunner & Lay, 133 W Polk, Chicago, Ill.
Collins Co., Collinsville, Conn., & 212 Water, New York
DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)
Doble, Abner Co., San Francisco, Cal.

Evansville Tool Works, Evansville, Ind.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Krauter & Co., Newark, N. J.
Mack & Co., Rochester, N. Y.
Mead, I. V., 418 E. 110th, New York.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Schueddig, F. Son, 525 S Jefferson, St. Louis, Mo.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Chisels (Track)

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
Beall Bros. (Inc.), Alton, Ill.
Collins Co., Collinsville, Conn., & 212 Water, New York

Evansville Tool Works, Evansville, Ind.
Harvey, H. H., 608 Atlantic av, Boston
Heller Tool Co., Verona av & Rldgc, Newark, N. J.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburg, Pa.

Kalamazoo Ry. Sup. Co., Kalamazoo, Mich.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
McINNES STEEL CO. (Ltd.), Corry, Pa. (See adv. index, end of book)

National Cutlery Co., Detroit, Mich.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works: Cheswick, Pa.

Plumb, Fayette R., Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Vaughn & Bushnell Mfg. Co. ("V. & B." Tool Steel), 877 W Carroll av, Chicago, Ill.
Verona Tool Works, Verona, Pa., & Murtland bldg, Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.

Chlorate of Potash

North American Chemical Co., Bay City, Mich.

Chlorate of Soda

North American Chemical Co., Bay City, Mich.

Chloride of Alumina

Cochrane Chemical Co., Boston, Mass.
Merrimac Chemical Co., Boston, Mass.

Chloride of Barium

Williams, Jno. T. & Son (Crystal, Small), 27 William, New York

Chloride of Calcium

Acme Calcium Works, Pomeroy, O.
Carbondale Chemical Co. ("Solvay" Fluid & Solid), Carbondale, Pa.
Dickinson, Jno. Q. & Co., Malden, W. Va.
Elmer & Amend, 205 3d av, New York
Eureka Calcium Works, Pomeroy, O.
Merrimac Chemical Co., Boston, Mass.
Pittsburg Calcium Works, Northside, Pittsburg, Pa.
Rhodes, Jas. H., & Co., 117 Kinzie, Chicago, Ill.
Roessler & Hasslacher Chemical Co., 100 William, New York
Scheel, Wm. H., 159 Malden la., New York
Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.

Chloride of Lime

Acme White Lead & Color Works, Detroit, Mich.
Champlon Chemical Works, 208 Michigan, Chicago, Ill.
Feurst Bros. & Co., 2 Stone, New York
Griswold, E. & Co., 16th & R. I. av, San Francisco, Cal.
Hirsch, L. & Son, 368 Greenwich, New York
Platt, H. B., 52 Cliff, New York
Rath Mfg. Co. ("Imperial"), Hedley & Richmond, Phila., Pa.
Thomsen Chemical Co., Race & Winder, Baltimore, Md.
United Zinc & Chemical Co., Kansas City, Mo.
Vanderbilt & Son, ft 7th, Hoboken, N. J.

Chloride of Sulphur

Acker Process Co., Niagara Falls, N. Y.
Scheel, Wm. H., 159 Malden la., New York
Speaight, Geo. W., 248 N 10th, Brooklyn, N. Y.
Stamford Rubber Supply Co., Stamford, Conn.

*Chlorination Plants

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Choppers (Apple)

Routell Mfg. Co., Rochester, N. Y.

Choppers (Food)

Athol Machine Co. ("American"), Athol, Mass.
 Dana Mfg. Co. ("Dana"), Cincinnati, O.
 Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
 Griswold Mfg. Co. ("Erie"), Erie, Pa.
 Hurwood Mfg. Co. ("Hurwood"), Bridgeport, Conn.

Landers, Frary & Clark ("Universal" & "Glimax"), New Britain, Conn.
 Peck, Stow & Wilcox Co. ("Ideal"), Southington, Conn.

Penna Salt Mfg. Co., 115 Chestnut, Phila., Pa.
 Russell & Erwin Mfg. Co. ("Russwin"), New Britain, Conn.
 Sargent & Co. ("Gem"), New Haven, Conn.
 Steinfeld Bros. ("Saxon"), 620 B'way, New York

Troy Nickel Works (Jno. E. Gaitley, Prop.) ("Peerless"), Albany, N. Y.

Choppers (Meat)

Athol Machine Co. ("American," for Hotels, Families, Butchers, etc.), Athol, Mass.
 Clauss Shear Co. ("Victor" Hand Chopper), Fremont, O.

Deer, A. J. Co. (Electric), Pearl & Seneca, Buffalo, N. Y.
 Enterprise Mfg. Co., 3d & Daphin, Phila., Pa.
 Hobart Electric Mfg. Co. (Electric), Troy, O.
 Holwick, B. C. ("Holwick" Motor Driven), Canton, O.

Landers, Frary & Clark ("Universal"), New Britain, Conn.

Murray Iron Works Co. (Draw-Cut Power & Hand & "Zimmerman & Iowa" Noiseless & "Schwahn" Rocker), Burlington, Ia.

Peck, Stow & Wilcox Co. ("Ideal" Family), Southington, Conn.
 Rollman Mfg. Co., Mt. Joy, Pa.

Russell & Erwin Mfg. Co. ("Russwin"), New Britain, Conn.
 Sargent & Co. ("Gem"), New Haven, Conn.

Smith's, Jno. E. Sons Co. ("Buffalo Silent"), Buffalo, N. Y.

Steigert, Leopold (Also for Food, Belt Power), Elder & Logan, Cincinnati, O.

Steinfeld Bros. ("Saxon"), 620 B'way, New York

Troy Nickel Works (Jno. E. Gaitley, Prop.) ("Peerless"), Albany, N. Y.

Chromium

Goldschmidt Thermit Co., 90 West, New York

Chronographs

Baird Mfg. Co., 1592 N Halstead, Chicago, Ill.
 Du Vivier, Ernest H., 30 Church, New York.
 International Instrument Co., 23 Church, Cambridge, Mass.

Chronometers

Bliss, Jno. & Co. (Nautical, etc.), 128 Front, New York

Bond, Wm. & Son (Marine, Sidereal & Electric Break Circuit), 148 State, Boston, Mass.

Riggs & Bro. (Nautical, etc.), 310 Market, Phila., Pa.

Chucks (Boring & Turning Mill)

Horton, E. & Sons Co., Windsor Locks, Conn.
 Union Mfg. Co. ("Union"), New Britain, Conn.
 Westcott Chuck Co., Oneida, N. Y.

Chucks (Car Wheel)

Hoggson & Pettis Mfg. Co. ("Sweetland"), New Haven, Conn.

Horton, E. & Son Co., Windsor Locks, Conn.

Oneida National Chuck Co., Oneida, N. Y.

Skinner Chuck Co., New Britain, Conn.

Union Mfg. Co. ("Union"), New Britain, Conn.

Westcott Chuck Co., Oneida, N. Y.

Chucks (Centering)

Cushman Chuck Co., New Britain, Conn.

Horton, E. & Son Co., Windsor Locks, Conn.

Skinner Chuck Co., New Britain, Conn.

Union Mfg. Co., New Britain, Conn.

Westcott Chuck Co., Oneida, N. Y.

Whiton, D. E. Machine Co., New London, Conn.

Chucks (Drill)

Almond, T. R. Mfg. Co. ("Almond" Inclosed Pinion), Ashburnham, Mass.

Andrew, M. L. & Co., 2852 Spring Grove av., Cincinnati, O.

Brown, R. H. & Co. ("The Reid"), New Haven, Conn.

Byer, Humrhouse Tool Co. (Quick Action), Hagerstown, Md.

Cincinnati Chuck Co. ("Cincinnati Patented" Four Jaw Independent), Cincinnati, O.

Cincinnati Bickford Tool Co., Cincinnati, O.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Clough, R. M. (For Straight Shank Drills), Tolland, Conn.

Cushman Chuck Co., Hartford, Conn.

Detroit Twist Drill Co. ("Graham"), Detroit, Mich.

Goodell Mfg. Co., Greenfield, Mass.

Goodell-Pratt Co., Greenfield, Mass.

Gronkvists Drill Chuck Co. ("Gronkvists"), Jersey City, N. J.

Hoefler Mfg. Co., Freeport, Ill.

Hoggson & Pettis Mfg. Co. ("Sweetland"), New Haven, Conn.

Horton, E. & Son Co. ("Horton"), Windsor Locks, Conn.

Jacobs Mfg. Co. ("Jacobs"), Hartford, Conn.

McCroskey Reamer Co. ("Quick Change," "Wizard"), Meadville, Pa.

Millers Falls Co. ("Barber"), 28 Warren, New York; Works: Millers Falls, Mass.

Modern Tool Co. ("Magic," also for Reamers & Counterbores, Taps, etc.), Erie, Pa.

Morrow Mfg. Co. (Ball Bearing), Elmira, N. Y.

MORSE TWIST DRILL & MACHINE Co. ("Beach," "Stetson" & Center Drill), New Bedford, Mass. (See adv. index, end of book)

Oneida National Chuck Co. ("National"), Oneida, N. Y.

Penna. Blue Print Co., Park bldg, Pittsburgh, Pa.

Pratt Chuck Co. ("Empire" Driving Drill Chucks, etc.), Frankfort, N. Y.

Pratt & Whitney Co., Hartford, Conn.

Putnam Machine Co., Fitchburg, Mass.

Radical Angular Drill Co. (For Square Holes), 114 Liberty, New York

Russell Anti-Friction Drill Chuck Co., Elmira, N. Y.

Saunders, D. Sons (also Tap), Yonkers, N. Y.

Skinner Chuck Co., New Britain, Conn.

Standard Tool Co., Central av & P. Ry., Cleveland, Ohio

Trump Bros. Machine Co., Wilmington, Del.

Union Mfg. Co. ("Czar," "Union" Geared), New Britain, Conn.

Victor Tool Co. ("Victor"), Waynesboro, Pa.

Westcott Chuck Co. ("The Westcott," "Oneida" & "Little Giant"), Oneida, N. Y.

WHITMAN & BARNES MFG. CO., ("Economy," "Worka"), Chicago, Ill. (See adv. index & branch offices, end of book)

Whitney Mfg. Co. ("Presto"), Hartford, Conn.

Whiton, D. E. Machine Co., New London, Conn.

Wide Range Drill Chuck & Tool Co. ("Wide Range"), Muncie, Ind.

Wiley & Russell Mfg. Co., Greenfield, Mass.

Chucks (Expanding)

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

Chucks (Jaw)

Cushman Chuck Co., Hartford, Conn.

Fray, Jno. S. & Co. (Three Jaw), Bridgeport, Conn.

Hoggson & Pettis Mfg. Co. ("Sweetland" Two-Jaw Slip Jaw), New Haven, Conn.

Horton, E. & Son Co. (Reversible), Windsor Locks, Conn.

Oneida National Chuck Co., Oneida, N. Y.

Putnam Machine Co., Fitchburg, Mass.

Saunders, D. Sons, Yonkers, N. Y.

Union Mfg. Co. ("Union"), New Britain, Conn.

Warner & Swasey Co. (Box & Revolving), 5809 Carnegie, S. E., Cleveland, Ohio.

Whiton, D. E. Machine Co., New London, Conn.

Chucks (Lathe)

Cushman Chuck Co., Hartford, Conn.

Hoggson & Pettis Mfg. Co. ("Sweetland"), New Haven, Conn.

Horton, E. & Son Co., Windsor Locks, Conn.

Jacobs Mfg. Co. ("Jacobs"), Hartford, Conn.

Leavitt Machine Co., Orange, Mass.

Modern Tool Co. (Draw Sleeve), Erie, Pa.

Oneida National Chuck Co., Oneida, N. Y.

Pratt & Whitney Co., Hartford, Conn.

Putnam Machine Co., Fitchburg, Mass.

Skinner Chuck Co., New Britain, Conn.

Union Mfg. Co., New Britain, Conn.

Westcott Chuck Co. (The Westcott Combination, "I. X. L." Independent, Universal & Eccentric), Oneida, N. Y.

Whiton, D. E. Machine Co., New London, Conn.

Chucks (Lever)

Potter & Johnston Machine Co. ("Universal Automatic"), Pawtucket, R. I.

Saunders, D. Sons, Yonkers, N. Y.

Chucks (Magnetic)

Walker, Oakley S. & Co., Worcester, Mass.

Chucks (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.

Cincinnati Bickford Tool Co., Cincinnati, O.

Horton, E. & Son Co., Windsor Locks, Conn.

Oneida National Chuck Co. ("Jordon"), Oneida, N. Y.

Owen Machine Tool Co., Springfield, O.

Union Mfg. Co. ("Union"), New Britain, Conn.

Chucks (Nipple)

National Nipple Chuck Co. ("National"), Boston, Mass.

***Chucks (Oval Turning)**

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Chucks (Planer)

Brightman Mfg. Co., Shelby, O.

Cincinnati Bickford Tool Co., Cincinnati, O.

Fox Machine Co., Grand Rapids, Mich.

Hollands Mfg. Co., Erie, Pa.

New Haven Mfg. Co., New Haven, Conn.

Oneida National Chuck Co., Oneida, N. Y.

Reed, Francis Co., Worcester, Mass.

Skinner Chuck Co., New Britain, Conn.

Union Mfg. Co. ("Union"), New Britain, Conn.

Chucks (Projectile)

Union Mfg. Co. ("Union"), New Britain, Conn.

Chucks (Revolving)

Scott & Sons Co. ("Ess-Ess"), Medford, Mass.

Chucks (Screw Machine)

Errington, F. A. (Auto Opening), 39 Cortlandt, New York

Garvin Machine Co., 137 Varick, New York

Horton, E. & Son Co., Windsor Locks, Conn.

New Haven Mfg. Co., New Haven, Conn.

Oneida National Chuck Co., Oneida, N. Y.

Putnam Machine Co., Fitchburg, Mass.

Union Mfg. Co., New Britain, Conn.

Westcott Chuck Co. ("Westcott Little Giant"), Oneida, N. Y.

Chucks (Scroll)

Union Mfg. Co. ("Union" Geared, etc.), New Britain, Conn.

Westcott Chuck Co., Oneida, N. Y.

Chucks (Spinning)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Hay-Budden Mfg. Co. (Forged Tool Steel), 254 N Henry, Brooklyn, N. Y.

Hoggson & Pettis Mfg. Co. ("Sweetland" Geared), New Haven, Conn.

Chucks (Split)

Rivett Lathe Mfg. Co. (Self-Centering), Brighton, Boston, Mass.

Chucks (Spring)

Brown & Sharpe Mfg. Co., Providence, R. I.

Clough, R. M., Tolland, Conn.

Chucks (Tapping)

Errington, F. A. (Auto Reverse), 39 Cortlandt, New York

Horton, E. & Son Co., Windsor Locks, Conn.

Modern Tool Co. ("Magic"), Erie, Pa.

St. Louis Machine Tool Co., St. Louis, Mo.

Victor Tool Co. ("Victor"), Waynesboro, Pa.

WELLS BROS. CO. ("Little Giant" Bolt Cutters), Greenfield, Mass. (See adv. index, end of book)

Westcott Chuck Co., Oneida, N. Y.

Chucks (Twist Drill)

Andrew, M. L. & Co., 2832 Spring Grove av., Cincinnati, O.
Horton, E. & Son Co., Windsor Locks, Conn.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National"), Detroit, Mich.
Oneida National Chuck Co., Oneida, N. Y.
Union Mfg. Co. ("Union"), New Britain, Conn.

Chucks (Wire or Wheel)

Hardinge Bros., 1036 Lincoln av., Chicago, Ill.
Waltham Watch Tool Co., Springfield, Mass.
Welch, T. F. & Co., 55 Sudbury, Boston, Mass.

Chucks & Chuck Blanks

Waterbury Brass Co., Waterbury, Conn.

*Church Crosses

JONES, THOS. W. (Electric Also), 22 Burling st., New York. (See adv. index, end of book)

Church Decorations

(See Decorations, Church)

Church Organ Builders

(See Organs, Church)

Church Seating

(See Furniture, Church)

Church Spires Repaired

Wightman, Andrew, Peekskill, N. Y.

Churn Dashers

Piqua Handle & Mfg. Co., Piqua, O.

Churns

(See also Dairy Apparatus & Supplies)

American Wooden Ware Mfg. Co. ("Magic," "Easy," "Compound Lever," "Hero," and "Charm" Barrel), "Union," "American," "Dasher", Toledo, O.
Aquatic Cream Separator Co. ("Eureka," Barrel Revolving), Rockford, Ill.
Brown, M. & Co. ("Bent Wood," Ash Dash), Wapakoneta, O.
Buckeye Churn Co. ("Buckeye," Ash Dash), Sidney, O.
Burrell, D. H. & Co. (Power, etc., for Creameries, etc.), Little Falls, N. Y.
Constance Co. ("Blust"), Mansfield, O.
Creamery Lackaye Mfg. Co. ("Dairy Box," "Rectangular," "C. P.", Box Factory), Chicago, Ill.
Dobson Mfg. Co. ("Favorite," Barrels, Revolving, 6 to 90 gallons), Rockford, Ill.
Enterprise Enamel Co. (Enameled Steel), Bellaire, O.
Fargo Creamery Supply House, Lake Mills, Wis.
Fenner, R. W. ("Fenner's," Revolving Six-Sided), South Stockton, N. Y.
Grand Detour Wagon Co. (Capacity 15 to 20 Gallons), Dixon, Ill.
Gwinner, E. R. & Co. ("Champion"), Bell blk., Cincinnati, O.
Jones, Frank L. ("Jones"), Utica, N. Y.
McDermald, J. ("Belle," "Star," White Oak Barrel Revolving, Power, etc., 10 to 100 Gallons), Rockford, Ill.
Page & Hill (Dairy & Creamery), Brasher Falls, N. Y.
Palmer, H. H. Co. ("Acme," "Boss," "Fairy," Ideal Barrel Revolving, etc.), Rockford, Ill.
Reid, A. H. Creamery & Dairy Supply Co. (Barrel Revolving & Box Factory), 69th & Haverford, Phila., Pa.
Standard Churn Co. ("Standard," Anti-Bentwood Barrel, Revolving; Box Factory, Ash Dash, up to 12 Gallons), Wapakoneta, O.
Stoddard Mfg. Co. ("Stoddard," Box, "Victor," Dairy, Power Churns for Creameries, etc.), Rutland, Vt.
Sturges & Burn Mfg. Co. (Steel), 251 S Green, Chicago, Ill.
Vermont Farm Machine Co. ("Davis," Swing Cypress, Oak & Pine), Bellows Falls, Vt.

Churns (Box Factory)

Burrell, D. H. & Co. ("B. & W."), Little Falls, N. Y.
Creamery Package Mfg. Co. ("C.-P."), Chicago, Ill.
Fargo Creamery Supply House ("Fargo"), Lake Mills, Wis.
Reid, A. H. Creamery & Dairy Supply Co. ("Reid's"), Phila., Pa.
Stoddard Mfg. Co. ("Stoddard"), Rutland, Vt.
Vermont Farm Machine Co. ("V. F. M."), Bellows Falls, Vt.

Chutes (Coal)

(See Coal Chutes)

Chutes (Sand)

Helmick Foundry & Machine Co., Fairmont, W. Va.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Chutes (Steel Plate)

Grand Rapids Foundry Co. (For Cases, Boxes, etc.), Grand Rapids, Mich.

Cigar Box & Cigar Makers' Supplies

Grammes, L. F. & Sons, Allentown, Pa.
National Selling Co., Allentown, Pa.

Cigar Lighters

(See Lighters, Cigar)

*Civil Engineers' Field & Office Supplies

SOLTMANN, E. G.

(Also Blue or Black Prints made from Large Tracings of County and Other Maps), 125 E 42d, New York City. (See adv. index, end of book)

Clamp Fixtures

Sheldon, E. H. & Co. ("Sheldon's" Malleable Iron), 84 N. May, Chicago, Ill.

Clamp & Hand Vise (Combined)

Billings & Spencer Co., Hartford, Conn.

Clamps (Adjustable)

Adjustable Clamp Co. ("Jorgeson" Hand Screw), Unity bldg., Chicago, Ill.
ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)
Billings & Spencer Co. ("Gardner" & "Miller"), Hartford, Conn.
Cincinnati Tool Co., Norwood, Cincinnati, O.
Dann Bros. & Co. (Wood Workers), New Haven, Conn.
Grand Rapids Wood Carving Co., Grand Rapids, Mich.
Hammer & Co. ("Hammer"), Branford, Conn.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Mark Mfg. Co., Evanston, Ill.
Milwaukee Foundry Supply Co., Milwaukee, Wis.
Monarch Clamp Co. ("Monarch" All Steel Two Piece), Jamestown, N. Y.
Smith & Egge Mfg. Co. ("Giant"), Bridgeport, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
TAYLOR, JAS. L. MFG. CO. (Self-Locking Screw), Bloomfield, N. J. (See adv. index, end of book)

*Clamps (Anchor)

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Clamps (Bar)

Sheldon, E. H. & Co. ("Sheldon's" Tempered Spring Steel), 84 N. May, Chicago, Ill.

Clamps (Basin)

Blessing, C. A., Philadelphia, Pa.
Boston Brass Co., 36 Oliver, Boston, Mass.
Central Brass Mfg. Co., Cleveland, O.
Climax Specialty Co. ("Crescent"), Seneca Falls, N. Y.
Clow, J. B. & Son, 342 Franklin, Chicago, Ill.
Colwell Lead Co. (Plumbers' "Joy"), 109 Lafayette, New York
Connolly, P. ("Giant"), 1154 Atlantic av., Columbus, O.
Fee & Mason (The "Crescent"), 81 Beekman, New York
Glauber Brass Mfg. Co. (Magic), Cleveland, O.
Grabler Mfg. Co. (Adjustable), Cleveland, O.
Haines, Jones & Cadbury Co. ("Crescent"), 1136 Ridge av., Phila., Pa.
Hampden Brass Co., Springfield, Mass.
Haydenville Co., Haydenville, Mass.
Hoffman-Billings Mfg. Co., Milwaukee, Wis.
Illinois Malleable Iron Co., 515 Diversey boul., Chicago, Ill.
Judd & Leland Mfg. Co., Clifton Springs, N. Y.
McCambridge & Co., 315 N 20th, Phila., Pa.
McNab & Harlin Mfg. Co., 56 John, New York
Mott, J. L. Iron Works, 118 5th av., New York
Mueller, H. Mfg. Co. (Ball Bearing), Decatur, Ill.
Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.
Park & McKay Co., 55 Bagley, Detroit, Mich.
Peck Bros. & Co., New Haven, Conn.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan & Washburn, 204 Grand av., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Standard Sanitary Mfg. Co., Bessemer bldg., Pittsburg, Pa.
Stebbins, E. Mfg. Co., Springfield, Mass.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.
Taylor, Geo., 99 Cliff, New York
Trenton Brass & Machine Co., Trenton, N. J.
Union Iron Works, Trenton, N. J.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
Waterbury Mfg. Co., Waterbury, Conn.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
Wolverine Brass Works ("Never-Slip," "Star"), Grand Rapids, Mich.

Clamps (Beam)

(See also Clamps, Conduit Pipe Hanging.)
Austin & Eddy, 117 Broad, Boston, Mass.
BROWN, A. & F. CO. (for Power), 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Cresson, Geo. V. Co. (For Power), Allegheny av., W of 17th, Phila., Pa.
DOBBIE FOUNDRY & MACHINE CO. (For Lifting Steel Beams), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
Falls Rivet & Machine Co. (for Power), Cuyahoga Falls, O., & 206 Fulton, New York
Fee & Mason, 81 Beekman, New York
General Fire Extinguisher Co., Providence, R. I.
Grabler Mfg. Co. (I Beam Adjustable, etc.), Cleveland, O.
Illinois Malleable Iron Co., 515 Diversey boul., Chicago, Ill.
Jarecki Mfg. Co., Erie, Pa.
Penna. Engineering Co., 1119 N. Howard, Phila., Pa.
Reed Mfg. Co. ("The Clark"), Erie, Pa.
SIMMONS, JNO. CO., 110 Centre, New York. (See adv. index, end of book)
Terry & Tench Co. (Inc.), Lexington av & 131st, New York
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Clamps (Belt)

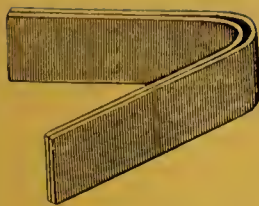
Ainsworth Covering Co. ("Ainsworth"), Wilmington, Del.
Akron Belting Co., Akron, O.
Anderson, W. H. Tool & Supply Co. 14 Maccomb, Detroit, Mich.
Billings & Spencer Co. (The "Gardner & Miller"), Hartford, Conn.
Boston Bolt Co., 40 Farnsworth, Boston, Mass.
Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
Crescent Mfg. Co., 28 Columbus, Cleveland, O.
Hoggson & Pettis Mfg. Co. ("Porter"), New Haven, Conn.
Page Belting Co. (Wood), Concord, N. H.

Clamps (Boat)

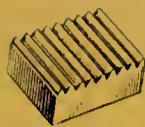
New London Vise Works (Wood End), New London, Conn.
TAYLOR, JAS. L. MFG. CO. (Quick Adjusting Self-Locking Steel Bar), Bloomfield, N. J. (See adv. index, end of book)



To shift jaw, press it slightly forward, which releases the grip.



Spring



Gripping Block
Oil tempered.
File tested.



Gripping Action No. 2



To shift the jaw, pull wedge and press the jaw slightly forward which releases the grip.

HIGH GRADE SCREW CLAMPS QUICK-ADJUSTING SELF-LOCKING

CASTINGS—Best refined malleable iron.
STEEL BARS—Rolled specially to our order; test more than double the strength of Bessemer.

EVERY CLAMP TESTED AND WARRANTED UNBREAKABLE IN USE



THIS TRADE MARK ON
CLAMPS, SCAFFOLD BRACKETS, ANGLE
PLATES, SHINGLE HOLDERS, ROOFING
BRACKETS OR LADDER ELEVATORS

STANDS FOR HIGHEST QUALITY.

JAMES L. TAYLOR MFG. CO.

SOLE MANUFACTURERS

BLOOMFIELD, N. J., U. S. A.



Steel bar 1" x 5/16"
Clamping strain 1800 lbs.



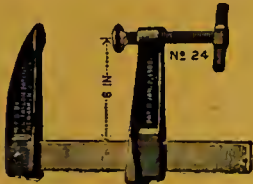
Steel bar 1 1/2" x 1/4"
Clamping strain 2400 lbs.



Steel bar 1 1/2" x 1/4"
Clamping strain 2400 lbs.



Steel bar 1 3/4" x 5/16"
Clamping strain 4500 lbs.



Steel bar 1 3/4" x 5/16"
Clamping strain 2100 lbs.

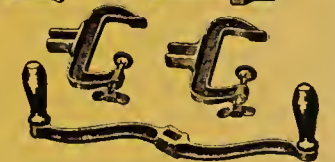


Steel bar 1" x 5/16"
Clamping strain 5500 lbs.



No. 25. Steel bar 1 1/2" x 1/4"
Clamping strain 7500 lbs.

No. 30. Steel bar 1 3/4" x 5/16"
Clamping strain 10000 lbs.



Steel bar 2" x 5/8"
Clamping strain 40000 lbs.



Clamp heads for use on wooden bars 2 1/4" x 7/8".



Mitre Clamp



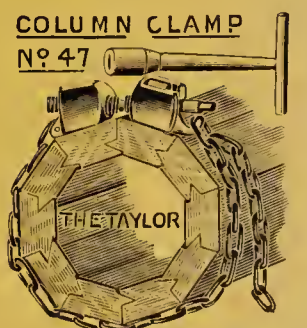
Steel bar 2" x 5/8"
Clamping strain 8000 lbs.



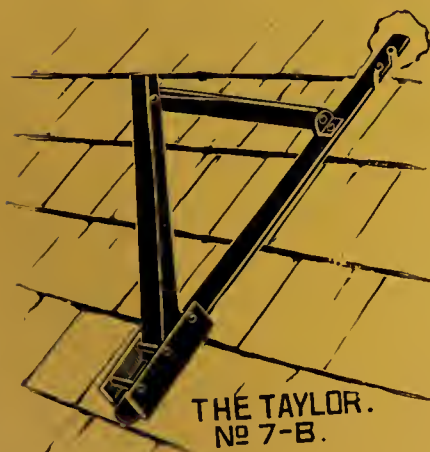
Steel bar 3" x 7/8"
Clamping strain 26400 lbs.



Steel bar 1 3/4" x 5/16"
Clamping strain 4500 lbs.



3/4" Steel screw, threaded right and left; proof tested chain.



ROOFING BRACKET



HOOK BOLT

This hook bolt which is used to secure the bracket, can be inserted through a one-inch hole bored in the sheathing; it hooks around the studding, and the nut on the outside of the house fastens it; no hole is bored in the studding. Only one man is required to put it up.

4 ft. Brackets made of 1 1/4" x 1 1/4" x 3/16" angle steel.

5 ft. Brackets made of 1 1/2" x 1 1/2" x 3/16" angle steel.

A single pair of the 4 ft. size will carry a ton without even springing. last a lifetime.



They



1891 — 1909

FOR EIGHTEEN YEARS

==== **Hendricks'** =====
Commercial Register

has been acknowledged as the
best of all similar publications.
It is commended by the leading
Trade Journals and is used by
the largest firms and corpora-
tions in all lines of business. ::



Clamps (Boilermakers')

Henderer's, A. L. Sons, Wilmington, Del.
 Le Count, Wm. G. (Light & Heavy Steel),
 South Norwalk, Conn.
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
 Niles-Bement-Pond Co., 111 B'way, New York
TAYLOR, JAS. L. MFG. CO. (Quick
 Adjusting, Self-Locking, Steel Bar), Bloom-
 field, N. J. (See adv. index, end of book)
 Wickes Bros., Saginaw, Mich.

Clamps (Bolt, Pearson King)

Pearson Jack Co., Boston, Mass.

Clamps (Brake Beam)

Gould Coupler Co., 345 5th av, New York;
 Rookery bldg, Chicago, Ill.; Works: De-
 pew, N. Y.
 Pearson Jack Co. ("Goodwin"), Boston, Mass.

Clamps (Brick)

Cleveland Brick Clamp Co., 1941 E. 55th,
 N. E., Cleveland, O.
 Duplex Mfg. & Foundry Co. ("Duplex") Clevel-
 and, O.
 Mostberger-Langner Iron Co. ("Cleveland"),
 876 S Division, Buffalo, N. Y.

Clamps (Bridge)

Le Count, Wm. G. (Steel), South Norwalk,
 Conn.
TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. index, end of book)

Clamps ("C")

Armstrong Bros. Tool Co. (Drop Forged Steel),
 113 N Francisco, Chicago, Ill.
 Billings & Spencer Co. ("Billings" Drop Forged
 Steel), Hartford, Conn.

Clamps (Cabinet Makers' and Carpenters')

Aldrich, Wm. K. Co., 587 Dutton, Lowell,
 Mass.
 Batavia Clamp Co. (Steel Bar), Batavia, N. Y.
 Bl' R. Mfg. Co., Pawtucket, R. I.
 Ch. iansen, C., 792 Grand av., Chicago, Ill.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Dann Bros. & Co., New Haven, Conn.
 Grabler Mfg. Co. (Adjustable), Cleveland, O.
 Grand Rapids Hand Screw Co. ("Hanson",
 "Benedict," also Carvers), Grand Rapids,
 Mich.
HAMMACHER, SCHLEMMER & CO., 133
 4th av., New York. (See adv. index, end
 of book)
 Hardware & Woodenware Co., 826 B'way, New
 York
 Holliday Mfg. & Engineering Co., 160 Bunker,
 Chicago, Ill.
 Hosef, E. E. Mfg. Co. ("Buffalo" Universal
 Handy Bench Clamp), Buffalo, N. Y.
 Mark Mfg. Co., Evanston, Ill.
 Ohio Tool Co., Columbus, O.
 Oliver Machinery Co., Grand Rapids, Mich.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Sandusky Tool Co., Sandusky, O.
 Stearns, E. C. & Co., Syracuse, N. Y.
 Tatum, Samuel C. Co. ("Automatic & "Never-
 break"), Cincinnati, O.
TAYLOR, JAS. L. MFG. CO. (Adjust-
 able & Self-Locking), Bloomfield, N. J. (See
 adv. index, end of book)
 Turner, Jno. D., Lowell, Mass.
 Woodruff, W. W. & Sons Co., Mount Carmel,
 Conn.
 Wrightsville Hardware Co., Wrightsville, Pa.

Clamps (Cable Supporting)

DIAMOND EXPANSION BOLT CO.
 ("Long Saut"), 90 West, New York. (See
 adv. index & branch offices, end of book)
 Fountain, Jno., Jr., 29 Murray, New York
 Matthews, W. N. & Bro. ("Kearney"), 206 N
 2d, St. Louis, Mo.
 Myers, F. E., & Bro., Ashland, O.

Clamps (Column)

Loetscher, A. A. ("Noxall"), Dubuque, Ia.
TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. index, end of book)

Clamps (Concrete Construction)

AMERICAN CONCRETE CO., 80 William,
 New York. (See adv. index, end of book)
 Dietrichs Clamp Co. ("Dietrichs" Wall Form
 Clamp), Little Ferry, N. J.

Sullivan, J. H., Grand Rapids, Mich.
TRUSSED CONCRETE STEEL CO., Trussed
 Concrete bldg., Detroit, Mich. (See adv.
 index & branch offices, end of book)

Clamps (Conduit Pipe Hanging)

Ajax Line Material Co. ("Staples"), 12 S Jef-
 ferson, Chicago, Ill.
 Atlas Hanger Co., New York.
 Bissell, F. Co. ("Security"), Toledo, O.
 Chase-Shawmut Co. ("Shawmut"), Newbury-
 port, Mass.
 Grabler Mfg. Co., Cleveland, O.
 Irish, W. F. Elec. Co. ("Shamrock"), 60 Cort-
 landt, New York
 Mullin, Colman J. Co., 430 Kent av, Brooklyn,
 Pass & Seymour, Solvay, N. Y.
 Steel City Electric Co. (Beam Straps), Pitts-
 burg, Pa.
 Thomas & Betts Co. (Box Hanger), 299 B'way,
 New York

Clamps (Corner)

Stearns, E. C. & Co., Syracuse, N. Y.

Clamps (Curtain Frame)

Hardware & Woodenware Mfg. Co., 826 B'way,
 New York

Clamps (Desk)

American Brass & Copper Co., 138 Lafayette,
 New York
 Jones & Gross Elec. Co., 62 Vesey, New York

***Clamps (Dock Builders')**

TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. index, end of book)

Clamps (Door)

American Woodworking Machinery Co., Roch-
 ester, N. Y.
 Fay, J. A., & Egan Co., cor. Front & John,
 Cincinnati, O.
 Greenlee Bros. & Co., Railway Exchange bldg.,
 Chicago, Ill.; Factory: Rockford, Ill.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Smith, H. B. Machine Co., Smithville, N. J.
 Stearns, E. C. & Co. ("Stearns," Adjustable),
 Syracuse, N. Y.
TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. index, end of book)

Clamps (Eccentric Wire)

Smith, Otis A. (For Tightening Wire Fence,
 Telephone Wire, etc.), Rockfall, Conn.

Clamps (Electric)

Dicke, H. E., Tool Co., Downers Grove, Ill.
 Smith, Otis A. (For Wire, etc.), Rockfall, Conn.

Clamps (Fitters')

Le Count, Wm. G. (Steel), South Norwalk, Conn.
TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. index, end of book)

Clamps (Flanging)

CLEVELAND PUNCH & SHEAR
 Works Co., Cleveland, O. (See adv. in-
 dex, end of book)
 McCrea, Jas., & Co. ("Model" to Stop Leaks
 Between Flanges), 69 W. Washington,
 Chicago, Ill.
MACKINNON BOILER & MACHINE CO.,
 Bay City, Mich. (See adv. index, end of
 Wickes Bros., Saginaw, Mich. book)

Clamps (Flask)

Barnett, Oscar, Foundry Co., Newark, N. J.
 Brass Founders' Supply Co., Newark, N. J.
 Grand Rapids Hand Screw Co. (Wood Screw),
 Grand Rapids, Mich.
HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)
 Milwaukee Foundry Supply Co. (Adjustable),
 253 Lake, Milwaukee, Wis.
 Monarch Clamp Co. ("Monarch" All Steel
 Adjustable Two Piece), Jamestown, N. Y.
 Sandusky Tool Co. (Brass Moulders), Sandusky,
 Ohio
TAYLOR, JAS. L. MFG. CO., Bloom-
 field, N. J. (See adv. index, end of book)

Clamps (Flooring)

American Floor Clamp & Mfg. Co. ("Jef-
 fords"), Kansas City, Mo.
 Buckeye Mfg. Co., Anderson, Ind.
 Penn Hardware Co., Reading, Pa.
 Stearns, E. C. & Co., Syracuse, N. Y.

Clamps (Furniture)

Grand Rapids Hand Screw Co. ("Benedict,"
 Desk Pedestal, Double Case, Bed, Mitre,
 Drawer, Chair Back, Gluing, Truck, etc.)
 Grand Rapids, Mich.

Clamps (Girder)

Wrigley, Thos., Co., 300 Dearborn, Chicago,
 Ill.

Clamps (Ground Connection)

Blackburn Specialty Co. ("Blackburn"), Clevel-
 and, O.
 Cameron Appliance Co. ("McCoy"), Everett,
 Mass.
 Chase-Shawmut Co. ("Shawmut"), Newbury-
 port, Mass.
 Fairmont Electric Mfg. Co. ("Bulldog,"
 "Vogel"), 714 N 24th, Phila., Pa.
 Gillette-Vibber Co. ("G-V"), New London, Conn.
 Heinemann, G. M. & Co. ("Advance"), 500
 Girard av, Phila., Pa.
 High Tension Electrical Specialty Co., Newton,
 Hinsdill-Pickering El. Co., Troy, N. Y.
 Milwaukee Electrical Specialties Co. ("M. &
 B."), Box 393, Milwaukee, Wis.
 Novelty Electric Co. ("Griptite," "Neco,"
 "Flex Clamp"), 50 N 4th, Phila., Pa.
 Paiste, H. T. Co. ("Perma-Effect"), Arch, 32d,
 Phila., Pa.
 Pettingell, Andrews Co. ("O-K"), Boston,
 Mass.
 Yonkers Specialty Co. ("New York"), Yonkers,
 N. Y.

Clamps (Guard Rail)

American Guard Rail Fastener Co. ("Anchor"
 & Malleable Iron), Real Estate Trust
 bldg., Phila., Pa.
 Bossert, W. F., Mfg. Co., Utica, N. Y.
 Cleveland Frog & Crossing Co., Cleveland, O.
 Quincy, Manchester, Sargent Co. ("National,"
 "Burpee," "A. & C."), Plainfield, N. J.
 Wharton, Wm., Jr., & Co. (Inc.), 25th &
 Washington av, Phila., Pa.

Clamps (Guy)

AMERICAN HOIST & DERRICK CO.
 ("Crosby"), St. Paul, Minn. (See adv. in-
 dex & branch offices, end of book)
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Bronson-Walton Co. ("Bull Dog" Stop), 119
 Shore Line, Cleveland, O.
 Cook, Frank B., 240 W Lake, Chicago, Ill.
 Hallett Iron Works, 96 Polk, Chicago, Ill.
 Hammond Mfg. Co. ("Jupiter"), Boston, Mass.
 Hoopes & Townsend Co., 1330 Buttonwood,
 Phila., Pa.
 Hubbard & Co. (Malleable & Wrought), Pitts-
 burg, Pa.
 Lanz, M. & Sons (Pressed Steel & Malleable
 Iron), Pittsburg, Pa.
MACOMBER & WHYTE ROPE CO.,
 266 S Clinton, Chicago, Ill. (See adv. in-
 dex, end of book)
 Michigan Bolt & Nut Works (Patent Pressed
 Steel), Detroit, Mich.
 Morris, Elmer P., Co., 90 West, New York.
 National Telephone Supply Co., Cleveland, O.
NEWHALL CHAIN, FORGE & IRON CO.,
 ("Trident"), 90 West, New York
 Norton Tool Co. (Solid Forged Steel & Three-
 Bolt, etc.), West Park, O.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Schafer Construction Material Co., 136 Liberty,
 New York
 Union Elevator & Machine Co., 144 Ontario,
 Chicago, Ill.
 Western Electric Co., 259 S. Clinton, Chicago,
 Ill., & 57 Bethune, New York

Clamps (Hay Rack)

Hunt, Helm, Ferris & Co., Harvard, Ill.
 Law Mfg Co., St. Paul, Minn.
 Loudon Machinery Co., Fairfield, Ia.
 Myers, F. E., & Bro., Ashland, Ohio.
 Porter, J. E., Co., Ottawa, Ill.
 Strickler Hay Tool Co., Janesville, Wis.

Clamps (Hose)

Andrews, Thos., Mfg. Co. ("Rapid" "Ball Dog"), Rockaway, N. J.
 Belknap Mfg. Co., Bridgeport, Conn.
 Clancy, J. R. ("Redfield" Wrought Steel), 247 Salina, Syracuse, N. Y.
DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)
 Elkhart Brass Mfg. Co. ("Sure Grip"), Elkhart, Ind.
 Emergency Clamp Co. ("Wilkins, Emergency"), Grabler Mfg. Co., Cleveland, O.
 Jarecki Mfg. Co. (Adjustable), Erie, Pa.
 Maltby, Geo. B., American Trust bldg., Cleveland, O.
 Nelson & Morrison Mfg. Co. (Snap), Peoria, Ill.
 Schrader, Geo. H. F., 32 Rose, New York
 Sherman, H. B. Mfg. Co., Battle Creek, Mich.
 Walker Hose Clamp Co., Battle Creek, Mich.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wolverine Brass Works (Wrought Steel), Grand Rapids, Mich.

Clamps (Hydrant & Water Pipe)

Crane Co. (Est. 1855) 519 S Canal Chicago Ill. (See adv. index & branch offices, end of book)

Clamps (Insulator)

Clark Electric & Mfg. Co. ("Clark"), 135 B'way, Fletcher Mfg. Co., Dayton, O.
 Nagel, W. G. Electric Co., Toledo, O.
 Paiste, H. T. Co., Arch & 32d, Phila., Pa.
 Steel City Electric Co. ("Universal"), Pittsburgh, Pa.

*Clamps (Key Seat)

STARRETT, L. S., CO., Athol, Mass. (See adv. index & branch offices, end of book)

Clamps (Linemen's Splicing)

(A Splicing Tool)

Cincinnati Tool Co. ("Hargraves"), Norwood, Cincinnati, O.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Dicke, H. C. Tool Co., Downers Grove, Ill.
 Irvington Mfg. Co. ("Little Giant"), Irvington, N. J.
 Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.
 Lowentrant, P. Mfg. Co., 36 Brenner, Newark, Smith, Otis A., Rockfall, Conn. N. J.

Clamps (Machinists')

ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)
 Athol Machine Co. (Standard Steel), Athol, Mass.
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Eberhard Mfg. Co., Cleveland, O.
HANMACHER, SCHLEMMER & CO., 133 4th av., New York. (See adv. index, end of book)
 Ideal Machine Works ("Ideal"), 255 39th, Brooklyn, N. Y.
 Le Count, Wm. G. (Heavy), S. Norwalk, Conn.
 Mark Mfg. Co., Evanston, Ill.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Pratt & Letchworth Co., 189 Tonawanda, Buffalo, N. Y.
TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)
 Woodruff, W. W. & Sons Co., Mount Carmel, Conn.

*Clamps (Measuring Bar)

STARRETT, L. S., CO., Athol, Mass. (See adv. index & branch offices, end of book)

Clamps (Messenger)

Cook, Frank B., 242 W. Lake, Chicago, Ill.
 Lanz, M. & Sons, Carson & 29th, Pittsburgh, Pa.

*Clamps (Mitre)

TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)
HANMACHER, SCHLEMMER & CO., 133 4th av., New York. (See adv. index, end of book)

Clamps (Parallel)

Besly, Chas. H. & Co., 15 S. Clinton, Chicago Ill.
STARRETT, L. S., CO. (Tool Makers), Athol, Mass. (See adv. index & branch offices, end of book)

Clamps (Piano & Cabinet Makers')

(See Clamps, Cabinet Makers' & Carpenters')

Clamps (Pipe)

Dayton Pipe Coupling Co. (For Screw, Bell & Spigot Pipe, etc.), Dayton, O.
 Dresser, S. R. Mfg. Co. ("Dresser" for Repairing Leaks), Bradford, Pa.
 Frick, Horace E. Co. ("Frick's" for Stopping Leaky Joints), 286 Greenwich, New York
 Grabler Mfg. Co. (Also Extension), Cleveland, Ohio
 Lord, L. L. Co. ("Lord" Lead Stopper & Repair, Meadville, Pa.
 McCrea, Jas., & Co. ("Emergency," "Climax" Leak Closing), 69 W. Washington, Chicago, Ill.
 National Tube Co., Pittsburgh, Pa.
 Nusbaum, F. A. ("Perfection," Leak Closing), 950 W Washington, Dayton, O.
 Parmelee Wrench Co., 1056 W Monroe, Chicago, Ill.
 Simplex Engineering Co. ("Simplex"), 316 Preston, Phila., Pa.
 Smith, W. Clifford ("Smith's," Leak Closing), 140 N 6th, Philadelphia, Pa.
 Western Railway Equipment Co., Missouri Trust bldg, St. Louis, Mo.

Clamps (Plow)

Hilfing Bros., Fort Edward, N. Y.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Stewart & Co., 513 W 50th, New York
 Upson Nut Co., Garfield bldg, Cleveland, O.

Clamps (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Hoopes & Townsend Co., 1330 Buttonwood, Hnbard & Co., Pittsburgh, Pa.
 Lanz, M. & Sons, Carson & 29th, Pittsburgh, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Oliver Iron & Steel Co., Pittsburgh, Pa.

Clamps (Quilt Frame)

Arcade Mfg. Co., Freeport, Ill.
 Penn Hardware Co., Reading, Pa.
 Stearns, E. C. & Co., Syracuse, N. Y.
 Stover Mfg. Co., Freeport, Ill.

*Clamps (Rope, Automatic)

HEARTLEY MACHINE, VARIETY IRON & Tool Works, Toledo, O. (See adv. index, end of book)

*Clamps (Rule)

STARRETT, L. S., CO., Athol, Mass. (See adv. index & branch offices, end of book)

Clamps (Saw)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Baldwin, Tuthill & Bolton (Filing), Grand Rapids, Mich.
COVEL MFG. CO. (Saw Filing), Benton Harbor, Mich. (See adv. index, end of book)
 Crescent Machine Co., Leetonia, O.
 Cunningham, E. E. (Est. of) (Filing), Worcester, Mass.
 Disston, Henry & Sons (Inc.), Phila., Pa.
 Gustafson & Scott Mfg. Co. ("Climax," for Filing Band Saws), 214 S Clinton, Chicago, Ill.
 Reading Hardware Co., Reading, Pa.
 Stearns, E. C. & Co., Syracuse, N. Y.
TAYLOR, JAS. L. MFG. CO. (& Jointer Combined), Bloomfield, N. J. (See adv. index, end of book)
 Tower & Lyon Co. ("Champion"), 95 Chambers, New York

Clamps (Saw Brazing)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Atlantic Works (Inc.), 2821 Oakford, Philadelphia, Pa.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)
 Wickes Bros., Saginaw, Mich.

Clamps (Screw)

Cincinnati Tool Co., Norwood, Cincinnati, O.
 Dayton Malleable Iron Co., Dayton, O.
 Eberhard Mfg. Co., Cleveland, O.
 Hammer & Co. ("Hammer"), Branford, Conn.
 Johnson, Israel H., Jr., Co., 337 N 15th, Philadelphia, Pa.
 Le Count, Wm. G. (Vise), South Norwalk, Conn.
 Malleable Iron Fittings Co., Branford, Conn.
 Oliver Machinery Co., Grand Rapids, Mich.
 Phoenix Hardware Mfg. Co. (Also Adjustable Screw), Homer, N. Y.
 Pratt & Letchworth Co., Buffalo, N. Y.
 Stearns, E. C., & Co. (Adjustable), Syracuse, N. Y.
TAYLOR, JAS. L. MFG. CO. (Quick Adjusting, Self-Locking, Steel Bar, etc.), Bloomfield, N. J. (See adv. index, end of book)
 Welch, T. F. & Co., 55 Sudbury, Boston, Mass.
 Wilcox, Crittenden & Co. (Ship & Ship Carpenter), Middletown, Conn.
 Woodruff, Walter W. & Sons Co., Mount Carmel, Conn.

Clamps (Ship)

(See Clamps, Boat)

Clamps (Splicing)

(See Clamps, Linemen's Splicing)

Clamps (Steam Joint)

McCrea, Jas. & Co. ("Climax" Brass), 67 W Washington, Chicago, Ill.
 Nusbaum, F. A. ("Perfection"), Dayton, O.
 Roberts, Geo. I. & Bros. (Inc.), 473 4th av, New York
 Smith Mfg. Co. (W. Clifford Smith, Pres.), 1031 Cambria, Phila., Pa.

Clamps (Steel)

Athol Machine Co. (Parallel, Machinists', Swivel, etc.), Athol, Mass.
 Erie Stamping & Mfg. Co. ("Thompson," Pressed Steel), Erie, Pa.
 Lanz, M. & Sons, Carson & 29th, Pittsburgh, Pa.
 Le Count, Wm. G., South Norwalk, Conn.
OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
STARRETT, L. S., & CO. (Tool Makers), Athol, Mass. (See adv. index, end of book)
TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)

Clamps (Steel Pipe)

American Steel Foundries (for Cast Iron Pipe Makers). Main Office: Commercial Nat'l Bank, Chicago, Ill.

Clamps (Testing Electric Wire)

(For Testing Current in Telephone & Current Wires)
 Williams Testing Clamp Co., Cleveland, O.

*Clamps (Tool Makers')

TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)

Clamps (Trolley Pole)

Bayonet Trolley Harp Co. ("Bayonet"), Springfield, O.
 Bissell, F. Co. ("Security"), Toledo, O.

*Clamps (Veneering)

TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)

Clamps (Wagon Spring)*TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J.** (See adv. index, end of book)**Clamps (Water Closet)**

(See Clamps, Basin)

Clamps (Water Pipe)

(See Clamps, Hydrant & Water Pipe)

Clamps (Wire Fence)**H. H. Fence Clamp Co. ("H. & H."), Marion, Ind.****Clamps (Wire Rope)****AMERICAN HOIST & DERRICK CO.** ("Crosby"), St. Paul, Minn. (See adv. index & branch offices, end of book)**AMERICAN WELL WORKS, Aurora, Ill.** (See adv. index & branch offices, end of book)**BRODERICK & BASCOM ROPE CO., 809 N. Main, St. Louis, Mo.** (See adv. index, end of book)**Bronson-Walton Co. ("Bulldog"), Collinwood, Cleveland, O.****DOBBIE FOUNDRY & MACHINE CO.,** Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)**G. & W. MFG. CO., 26 Cortlandt, New York.** (See adv. index, end of book)**Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York****Lanz, Mathew & Son, Carson & 29th, Pittsburg, Pa.****Leschen, A. & Sons Rope Co., St. Louis, Mo.****Macomber-Whyte-Moon Co., 122 Centre, New York****MACOMBER & WHYTE ROPE CO.,** 268 S Clinton, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)**Roebbing's, Jno. A. Sons Co. of New York, Trenton, N. J.****Seward & Co., Bloomfield, Ind.****TRENTON IRON CO., Trenton, N. J., & 30 Church, New York.** (See adv. index, end of book)**Union Elevator & Machine Co. (Also Manila Rope Clamps), 144 Ontario, Chicago, Ill.****Wilcox, Crittenden & Co., Middletown, Conn.****WRIGHT WIRE CO. ("W. & C."),** etc., Worcester, Mass. (See adv. index & branch offices, end of book)**Clamps (Woodworkers')**

(See Clamps, Cabinet Makers & Carpenters)

Clasps (Glass)**Van Doorn Co. (Nickel Plated), Quincy, Ill.****Clasps (Pail)****ACME STEEL GOODS CO. ("Acme" Flexible Pail & Crate), 2834-2840 Archer av., Chicago, Ill.** (See adv. index, end of book)**CARY MFG. CO., 19 Roosevelt, New York.** (See adv. index, end of book)**Twisted Wire Box Strap Co. ("Mitchell's Peerless"), 451 Greenwich, New York****Classifiers (Hydraulic)**

(See Classifiers, Hydraulic)

Classifiers (Slime)**Denver Engineering Works ("Richards") Pul-sator), Denver, Colo.****National Ore Concentration Co. ("Woodbury"),** First Nat'l Bank Bldg., Chicago, Ill.**Power & Mining Machinery Co. (For Concentrating Mills), Cudahy, Wis.****Claw Bars**

(See Bars, Claw)

Claws (Tack)**Arcade Mfg. Co., Freeport, Ill.****Bridgeport Hardware Mfg. Co., Bridgeport, Deuse, J. S., Chester, Conn.****Humason & Beckley Mfg. Co., New Britain, Conn.****Jennings, C. E. & Co., 42 Murray, New York****Keystone Drop Forge Works (Drop Forged),** Chester, Pa.**Kraeuter & Co., 577 18th av, Newark, N. J.****Mayhew, H. H. Co., Shelburn Falls, Mass.****Osborne & Co., Newark, N. J.****Peck, Stow & Wilcox Co., 27 Murray, New York****Sargent & Co., 151 Leonard, New York****Stortz, Jno. & Son, 210 Vine, Phila., Pa.****Utica Drop Forge & Tool Co., Utica, N. Y.****Vaughn & Bushnell Mfg. Co. ("V. & B.")****Wrought Steel), 875 W Carroll av, Chicago, Ill.****WILLIAMS, J. H. & CO. (Drop****Forged), Brooklyn, N. Y.** (See adv. index, end of book)**Wrightsville Hardware Co., Wrightsville, Pa.****Clay Crushers**

(See Crushers, Clay)

Clay Miners & Shippers**MAURER, HENRY & SON (For All****Purposes), 420 E 23d, New York; Penna****bldg, Phila., Pa. Works: Maurer, N. J.****(See adv. inside Front Cover)****MISSISSIPPI GLASS CO., 115 B'way,****New York.** (See adv. index & branch offices, end of book)**National Pyrogranit Co., 17 Battery pl, New****York****Perrine, H. C. & Son (All Kinds), S Amboy,****N. J.****RUTLAND FIRE CLAY CO., Rutland,****Vt.** (See adv. index & branch offices, end of book)**Valentine, M. D. & Bro. Co. (Foundry, etc.),****Woodbridge, N. J.****Clay Retorts**

(See Retorts, Gas)

Clay & Shale Gatherers*CENTRAL IRON WORKS, Quincy, Ill.****(See adv. index, end of book)****Clays (China)****Franklyn & Ferguson, Cotton Exch, New York****Hammill & Gillespie, 240 Front, New York****Nevins, Sam'l Co. (Dried, Ground & Bolted),****109 S 2d, Phila., Pa.****Salomon, L. A. & Bro., 216 Pearl, New York****Smith, J. Lee & Co., 59 Frankfort, New York****Star Clay Co., Mertztown, Pa.****Tennant, C. Sons & Co., 76 William, New York****Whittaker, W. T., 245 Front, New York****Clays, Minerals, Etc.**

(See also Color Manufacturers & Importers)

Atlas Mining & Mineral Co., Lincoln, N. J., &**82 Pearl, New York****Berg Mining Co., 121 Front, New York****Binney & Smith Co., 81 Fulton, New York****Blue Ridge Ochre Co., Cartersville Ga.****Cherokee Ochre Co., Cartersville, Ga.****Chrystal, Chas. B., 184 Water, New York****Columbia Brick & Plaster Co. (Clays for Pot-****tery, Terra Cotta, etc.), North East, Md.****Davidson, Jas. H. (Inc.) (Ochres, Red Oxides,****Barytes, etc.), 239 Front, New York****DOGGETT, STANLEY, 101 Beekman,****New York.** (See adv. index, end of book)**Earle, Ellis P., 31 Nassau, New York****Federal Clay Mfg. Co., B'way & 23d, New****York****Feuchtwanger, L. & Co., 54 Fulton, New York****Florida Clay Co., Law bldg, Baltimore, Md.****Franklyn & Ferguson (Barytes, Clays, etc.),****Cotton Exch, New York****Fuerst Bros. & Co., 2 Stone, New York****Georgia Peruvian Ochre Co., S. Bethlehem, Pa.,****& Cartersville, Ga.****Great Eastern Clay Co., 39 Cortlandt, New****York****Hammill & Gillespie (China, Pottery, etc.), 240****Front, New York****Herrmann, Morris & Co. (Non-Fading Reds),****68 William, New York****Mephram, Geo. S. & Co., East St. Louis, Ill.****Mertztown Mfg. Co. (Orche, Umbers, Slemas,****Metallic, Brown, Mineral, Black, etc.);****Works, Mertztown, Pa.****Moore & Munger, 99 John, New York****Mount Holly Brick & Clay Co. (Refiners of****White Clay), Harrisburg, Pa.****National Gum & Mica Co., 502 W 45th, New****York****Nevins, Samuel Co., 109 S 2d, Phila., Pa.****N. Y. Silicate Co., 29 B'way, New York****Osborn, Clarence J. (Broker), 284 Pearl, New****York****Paper Makers' Chemical Co. (English China &****Ball Clays), Easton, Pa.****Pettit Chemical Co., 241 Front, New York****Philadelphia Clay Co. (High Grade Clays), 1201****Chestnut, Phila., Pa.****Robbins, Alfred A., 180 South, New York****Salomon, L. A. & Bro. (China Clay, etc.), 216****Pearl, New York****Scheel, Wm. H., 159 Malden la., New York****Silkman, Frank W., 150 Nassau, New York****Smith, J. Lee & Co. (Ochres, Crown Paris****White, Indian & Venetian Reds, Drop****Black & Colors, China Clay), 59 Frankfort,****New York****Star Clay Co. (Clays), Mertztown, Pa.****Tennant, C. Sons & Co. (Arsenic, China Clay,****Talc, etc.), 76 William, New York****Thiele, E., 99 John, New York****Uhlich, Paul & Co., 108 Fulton, New York****Union Talc Co. (Agalite), 149 B'way, New****York. Works, Gouverneur, N. Y.****Wagener, John O. & Co. (Mineral Pulp), East-****ton, Pa.****Whittaker, W. H., 245 Front, New York****WILBUR JOB CO. (American Ochres,****Talcene, Black Filler & Red & Gray****Slates). Office, Providence, R. I. Factory,****Phila., Pa. (See adv. index, end of book)****Williams, C. K. & Co. (Mineral Pulp, Clays,****Ochre, etc.), Easton, Pa.****Clays (Modeling)****Steiger Terra Cotta & Pottery Works, San****Francisco, Cal.****Stewart & Co., 511 W 50th, New York****Cleaners (Bean & Pea)****Dickey, A. P. Mfg. Co. ("Dickey"), Racine,****Wis.****Ferrell, A. T. & Co. ("Clipper"), Saginaw,****Mich.****Johnson & Field Mfg. Co. ("Racine"), Racine,****Wis.****Owens, J. L. Co. ("Advance"), Minneapolis,****Minn.****Cleaners (Boiler Flue & Tube)****Advance Packing & Supply Co., 55 S Canal,****Chicago, Ill****Andrews, Thos. Mfg. Co. ("Rapid" High Power****Boiler Tube Cleaner), Rockaway, N. J.****Baker-Smith Co. (Flue Cleaners), Oswego, N. Y.****Berry Engineering Co., Chester, Pa.****Browne, F. W. (Wire Brushes), Farmington,****N. H.****Buckeye Boiler Skimmer Co. ("Buckeye" Auto-****matic Boiler Skimmers), Toledo, O.****Burgess, E. A. (Est. of) ("Gronvold" Boiler****Flue), New Haven, Conn.****Burrows Mfg. Co., 73 Warren, New York****Bushnell, John S. & Co. ("Thompson's" also****"Grimm's" Injector Blower for Vertical****Boilers; also Soot Suckers), 227 Fulton,****New York****Caldwell, H. W. & Son So. ("Ruggles"), 17th****& Western av, Chicago, Ill.****Casaday, W. L. Mfg. Co., South Bend, Ind.****Challenge Tube Cleaner Co. ("Challenge"****Tube Scraper), Lowell, Mass.****Chesterton, A. W. & Co. ("Ingalls" Tube****Scraper, "Engineers' Favorite" & "Wonder"****"Tube Cleaner, Combination Scraper &****Brush, "Abram" Tube Brush & Spiral Tube****Brush & Blowers & Suckers), 64 India,****Boston, Mass.****Christoffel's, A. Son, 277 Eldert, Brooklyn,****N. Y.****Clark, A. C. & Co. (Mechanical Boiler Cleaner),****1250 76th, Chicago, Ill.****Clark, Fred, Boiler Cleaning Co. ("Clark"),****93 Nassau, New York****Cleveland Flue Cleaner Mfg. Co. ("A. & D.")****Steam Boiler Flue Cleaner, Blowers &****Suckers), 321 Frankfort av, N W, Cleve-****land, O.****Cleveland Tube Cleaning Co. ("Bulldog,"****"Peerless" Re-Adjusted Boiler Tube Clean-****ers), 416 Frankfort av, N W, Cleveland, O.****Colles, E. G. T. & Co. (Boiler Cleaners & Skim-****ers), 42 S Clinton, Chicago, Ill****Crescent Mfg. Co. ("Cyclone" Steam Flue****Cleaner), 1708 Columbus rd, N. W., Cleve-****land, O.****Darling Pump & Mfg. Co. (Ltd.), Williams****port, Pa.****Decatur Specialty Co. ("Falries" Self-Ex-****panding & Contracting Tube Cleaner)****Decatur, Ill****Dempsey, J. E. Co. ("Clark" Mechanical Boiler****Cleaners, Blowers & Suckers), Monadnock****blk, Chicago, Ill.****Diamond Power Specialty Co. ("Diamond"****Steam Tube Cleaner, Suckers & Blowers),****236 Fort, W, Detroit, Mich****DONEGAN & SWIFT, 6 Murray, New****York. (See adv. index, end of book)**

Doolittle, S. B. & Son ("Doolittle's-Perfect" Flue Cleaner with Shear Cutting Knives), Binghamton, N. Y.
 Erie Mfg. & Supply Co. ("The Perfection"), Erie, Pa.
 Flint, Warren F. (Wire), 103 Merrimac, Boston, Mass.
 Fort Wayne Steam Specialty Co. ("S. S. S."), Fort Wayne, Ind.
 Gem Mfg. Co. ("Gem" Flue Scrapers), Spruce & 33d, Pittsburg, Pa.
 General Specialty Co. ("Torpedo" Fire Tube Cleaner & "Dcmon" Water Tube Cleaner), 800 Prospect av, Buffalo, N. Y.
 Gerhardt, C. (Flue & Tube Brushes), 591 Hudson, New York
 Gilmore Tube Scraper Works (F. G. Crowell, Prop.) ("Gilmore" Tube Scraper), 61 Terrace, Buffalo, N. Y.
 Globe Boiler Compound Co. ("Case" Patent Metal Boiler Cleaner), Binghamton, N. Y.
 Goodfellow, Jno. H. ("Cyclone," "Autocrat," "New Wizard" Rear End Flue Blower), 36 Ferguson, Buffalo, N. Y.
 Greenwood Mfg. & Supply Co. ("Greenwood" Hot Blast Flue Blower), 147 Milk, Boston, Mass.
 Griffiths, Jas. A. ("The Cook" Blowers & Suckers), 500 N 12th, Philadelphia, Pa.
 Hennebohle, F. (Blowers & Suckers), 9390 S Chicago av, Chicago, Ill.
 Henry Steam Flue Cleaner Co. (Steam Flue), Ashland, Wis.
 Hilts Wrench & Mfg. Co. ("Perfect"), Richmond, N. Y.
 Houghton, E. F. & Co., 240 W. Somerset, Phila., Pa.
 Huyette, Paul B. Co. ("Tornado" Air Blower Tube or Flue Cleaner), Betz bldg, Phila., Pa.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.) (Flue Cleaners), 169 Chambers, New York. (See adv. index, end of book)
 Jackson Flue Scraper Co. ("Jackson" Flue Scraper), Jackson, Mich.
 Jarecki Mfg. Co. ("The Hurley Freeman" Blowers & Suckers), Erie, Pa., & Pittsburg, Pa.
 Johns, H. W.-Manville Co. ("National"), 100 William, New York
 Just Mfg. Co. (Mechanical Boiler Skimmers), Heed bldg, Philadelphia, Pa.
 Kurz, J. & W., Quincy, Ill.
 Lagonda Mfg. Co. ("The Weinland" Water Power Tube Cleaner, Turbine), Springfield, O.
 Leonard & McCoy ("The Hotchkiss"), 161 Washington, New York
 Liberty Mfg. Co. ("Liberty," "Chicago," "Niagara" Turbine), Pittsburg, Pa.
 Lord, L. L. Co., Meadville, Pa.
 McCrea, Jas. & Co., ("Butman" Ball Joint Flue Scraper Rod), 67 W Washington, Chicago, Ill.
 Mallory-Maschke Co. (Blowers), 123 Liberty, New York
 McKim, John & Co. (Flue Cleaning Brushes), 131 N 10th, Phila., Pa.
 McLaughlin, Geo. G. Mfg. Co., 24 Washington, N. Boston, Mass.
 Manchester Mfg. Co. ("The Meyers" Automatic Skimmer), North Manchester, Ind.
 Matthews, W. N. & Bro. ("Steam Scale Knockers"), 219 N 2d, St. Louis, Mo.
 Maurer, Wm. & Co. ("Lightning" Tube Cleaners), 217 St. Joseph, South Bend, Ind.
 Michigan Lubricator Co. ("Correct," "Engineers" & "King" & Adjustable Flue Scrapers), 663 Beaubien, Detroit, Mich.
 Mulholland, Wm. ("The Spencer"), 78 Lafayette, New York
 Nuhring, Chas. & Bro. (Soot Blowers & Suckers, "Success & Kant-Blow-Off"), Cincinnati, O.
 National Flue Cleaner Co. ("American" Boiler Flue Cleaner), Trenton, N. J.
 Oberchain & Boyer (Skimmers), Logansport, Ind.
 Parson Mfg. Co. ("Parson's" Air Jet Flue Cleaner), 299 B'way, New York
 Paxson, J. W. Co., 1021 Delaware av, Philadelphia, Pa.
 Perfection Grate Co. ("Perfection" Blower), Springfield, Mass.
 Perry, Earle C. ("Perfection" Turbine), Merchants-Laclede Bldg, St. Louis, Mo.
 Pierce, W. B. Co. ("The Dean" Turbine, "Sterling" & "Peerless"), 327 Washington, Buffalo, N. Y.
 Piley Packing & Flue Brush Mfg. Co. ("Abrams"), 608 S 3d, St. Louis, Mo.
 Poole Mfg. Co. ("Little Giant" Power Water Tube & Fire Tube Cleaners), Albany, N. Y.
 Prosser, Thos. & Son (Steel Wire Brushes), 15 Gold, New York
 Reiter Boiler Cleaner Co., Elgin, Ill.
 Robertson, Jas. L. & Son (Inc.) ("The Hurricane"), 48 Warren, N. Y.

Roto Co. ("Roto" Steam, Compressed Air & Water Driven Rotary Engines for Fire Tube and Water Tube), Plainsville, Conn.
 Ruffner, D. B. & Son, Bowman & Cresson Falls, Phila., Pa.
 St. John, G. C. ("St. John" Tube Cleaner, 140 Cedar, New York
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
 Scully Steel & Iron Co. ("Ruggles" Perfection Flue Cleaner), 136 Fulton, Chicago, Ill.
 Seehansen, Wehrs & Co. ("The Lukens"), 45 Franklin, Chicago, Ill.
 Sherwood Mfg. Co. ("Favorite"), 1702 Elmwood av, Buffalo, N. Y.
 Sims Co. (Mechanical Skimmers), Erie, Pa.
 Thompson, Richard & Co. ("Thomson's 20th Century" Tube Cleaner or Injector Blower), 126 Liberty, New York
 Thum, C. D. (Brushes), 150 N 3d, Phila., Pa.
 Turner & Brownlie, Des Moines, Ia.
 Union Steam Specialty Co. ("Grim" Injector & Soot Sucker), Scranton, Pa.
 Unique Engineering Co. ("Unique" Flue Cleaner, Scraper & Blower), 100 Hinsdale, Brooklyn, N. Y.
 U. S. Specialty Mfg. Co. ("U. S." Tube Blower), Pittsburg, Pa.
 Warley, Thos. C. & Co., 221 S Front, Phila., Pa.
 Wing, J. T. & Co. ("The Detroit" Flue Cleaners), 19 Woodward av, Detroit, Mich.
 Wolfe Brush Co., S 15th & Bingham, Pittsburg, Pa.
 Worcester Brush & Scraper Co. ("Criss-Cross" Tube Cleaner, etc.), Worcester, Mass.

Cleaners, Boiler Flue or Tube (Brushes)

Browne, F. W. (Wire), Farmington, N. H.
 Chesterton, A. W. & Co. ("Abram" Tube Brush & Spiral Tube Brush), 64 India, Boston, Mass.
DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)
 Flint, Warren F., 103 Merrimac, Boston, Mass.
 Gaiton Mfg. Co., Cleveland, O.
 Gerhardt, C. (Flue & Tube Brushes), 591 Hudson, New York
 McKim, John & Co. (Flue Cleaning Brushes), 131 N 10th, Philadelphia, Pa.
 Manning, Maxwell & Moore (Inc.), 85 Liberty, New York
 Mulholland, J. H. ("The Spencer"), 78 Lafayette, New York
 Piley Packing & Flue Brush Mfg. Co. ("Abrams"), St. Louis, Mo.
 Prosser, Thos. & Son (Steel Wire Brushes), 15 Gold, New York
 Thum, Chas. D., 150 N 3d, Philadelphia, Pa.
 Unique Engineering Co., 100 Hinsdale, Brooklyn, N. Y.
 Wolfe Brush Co., S 15th & Bingham, Pittsburg, Pa.
 Worcester Brush & Scraper Co. ("Ingalls" Tube Brush & Cleaner, & "Worcester" Flue Brush), Worcester, Mass.

Cleaners, Boiler Flue or Tube (Scrapers)

Challenge Tube Cleaner Co. ("Challenge"), Lowell, Mass.
 Chesterton, A. W. & Co. ("Ingalls" Tube Scraper; also Combined Scraper & Brush), 64 India, Boston, Mass.
 Christoffels, A. Son, 277 Eldert, B'klyn, N. Y.
DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)
 Doolittle, S. B. & Son ("Doolittle's Perfect" Flue Cleaner, with Shear Cutting Knives), Binghamton, N. Y.
 Gem Mfg. Co. ("Gem" Brush Spiral Flue & Conform Flue Scrapers), Pittsburg, Pa.
 Gilmore Tube Scraper Works (F. G. Crowell, Prop.) ("Gilmore" Tube Scraper), 200 Terrace, Buffalo, N. Y.
 Goodfellow, John H. ("Autocrat" Flue Scraper), 36 Ferguson, Buffalo, N. Y.
 Jackson Flue Scraper Co. ("Jackson" Flue Scraper), Jackson, Mich.
 Johns, H. W.-Manville Co. ("National"), 100 William, New York
 Kurz, J. & W., Quincy, Ill.
 Lord, L. L. Co., Meadville, Pa.
 Manning, Maxwell & Moore (Inc.), 85 Liberty, New York
 Michigan Lubricator Co. ("Essex," "King"), 661 Beaubien, Detroit, Mich.
 Newark Brush & Scraper Co. ("Collicott's" Improved Ingalls), Newark, N. J.
 Piley Packing & Flue Brush Mfg. Co., 606 S 3d, St. Louis, Mo.

Reversible Tube Cleaner Co. ("Criss Cross" Tube Cleaner), Worcester, Mass.
 Sherwood Mfg. Co. ("Duplex" Tube Scraper, "Engineers' Favorite" Flue Scraper), Buffalo, N. Y.
 Scully Steel & Iron Co. ("Ruggles Perfection"), 136 Fulton, Chicago, Ill.
 Stewart Heater Co. ("Favorite"), 389 Norfolk av, Buffalo, N. Y.
 Unique Engineering Co. ("Unique" Flue Cleaner, Scraper & Blower), 100 Hinsdale, Brooklyn, N. Y.
 Worcester Brush & Scraper Co. ("Ingalls" Tube Scraper & Brush), Worcester, Mass.

Cleaners, Boiler Flue or Tube (Soot Blowers & Suckers)

Bushnell, John S. & Co. Co. ("Thompson's," also "Grimm's" Injector Blower for Vertical Boilers; also Soot Suckers), 227 Fulton, New York
 Chesterton, A. W. & Co. ("Wonder" Tube Cleaner), 64 India, Boston, Mass.
 Cleveland Flue Cleaner Mfg. Co. ("A. & D." Steam Boiler Flue Cleaner), 321 Frankfort av, N W, Cleveland, O.
 Dempsey, J. E. Co. ("Clark" Mechanical Boiler Cleaner), Monadnock blk, Chicago, Ill.
DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)
 Goodfellow, John H. ("New Wizard" Rear End Boiler Flue Blower), 36 Ferguson, Buffalo, N. Y.
 Greenwood Mfg. & Supply Co. ("Greenwood" Hot Blast Flue Blower), 147 Milk, Boston, Mass.
 Griffiths, James A. ("The Cook"), 500 N 12th, Philadelphia, Pa.
 Hennebohle, F., South Chicago, Ill.
 Huyette, Paul B. Co. ("Tornado" Air Blower Tube or Flue Cleaner), Betz bldg, Philadelphia, Pa.
 Jarecki Mfg. Co. ("The Hurley Freeman"), Erie, Pa., & Pittsburg, Pa.
 Manning, Maxwell & Moore (Inc.), 85 Liberty, New York
 Michigan Lubricator Co. ("Correct," "Engineers"), 661 Beaubien, Detroit, Mich.
 National Flue Cleaner Co. ("American"), Trenton, N. J.
 Parson Mfg. Co. ("Parson's" Air Jet Flue Cleaner), 299 B'way, New York
 Power Specialty Co. ("Diamond" Steam Tube Cleaner), 236 Fort, W. Detroit, Mich.
 Sherwood Mfg. Co. ("Favorite" Steam Flue Blowers), Buffalo, N. Y.
 Thompson, Richard & Co. ("Thompson's 20th Century" Tube Cleaner or Injector Blower), 126 Liberty, New York
 U. S. Specialty Mfg. Co. ("U. S." Tube), Pittsburg, Pa.

Cleaners, Boiler Flue or Tube (Steam or Power)

Andrews, Thos., Mfg. Co. ("Rapid" High Power Boiler Tube Cleaner), Rockaway, N. J.
 Burgess, E. A. (Est. of) ("Gronvold" Boiler Flue), New Haven, Conn.
 Caldwell, H. W. & Son Co. ("Red Jacket"), 17th & Western av, Chicago, Ill.
 Casaday, W. L. Mfg. Co., South Bend, Ind.
 Cleveland Tube Cleaner Co. ("Bulldog," "Peerless" Readjusted Boiler Tube Cleaners), 424 Frankfort av, N W, Cleveland, O.
DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)
 Fort Wayne Steam Specialty Co. ("S. S. S."), Fort Wayne, Ind.
 Gem Mfg. Co. ("Union"), Spruce & 33d, Pittsburg, Pa.
 General Specialty Co. ("Torpedo" Fire Tube Cleaner & "Demon" Water Tube Cleaner), 10 Seneca, Buffalo, N. Y.
 Goodfellow, John H. ("Cyclone"), 36 Ferguson, Buffalo, N. Y.
 Henry Steam Flue Cleaner Co. ("Henry" Steam Flue), Ashland, Wis.
 Lagonda Mfg. Co. ("Weinland" Water Power Tube Cleaner), Springfield, O.
 Liberty Mfg. Co. ("Niagara"), 6907 Susquehanna, Pittsburg, Pa.
 Manchester Mfg. Co. ("Myers", Automatic), North Manchester, Ind.
 Manning, Maxwell & Moore (Inc.), 85 Liberty, New York
 Maurer, Labadie & Co. ("Lightning" Tube Cleaners), South Bend, Ind.
 Pierce, W. B. Co. ("Dean" Tube Cleaner), 327 Washington, Buffalo, N. Y.

Poole Mfg. Co. ("Little Giant" Power Water Tube & Fire Tube Cleaner), Albany, N. Y.
Power Specialty Co. ("Diamond" Steam Tube Cleaner), 236 Fort, W. Detroit, Mich.
Robertson, Jas. L. & Son (Inc.) ("The Hurricane"), 48 Warren, New York
Roto Co. ("Roto" Steam, Compressed Air & Water Driven Rotary Engines), Plainville, Conn.
Sherwood Mfg. Co., Buffalo, N. Y.

Cleaners (Boiler, Skimmers)

Buckeye Boiler Skimmer Co. ("Buckeye" Automatic), Toledo, O.
Colles, E. G. T. & Co., 20 S Canal, Chicago, Ill.
Just Mfg. Co., Heed bldg., Philadelphia, Pa.
Manchester Mfg. Co. ("Myers"), North Manchester, Ind.
Obenchan & Boyer, Logansport, Ind.
Sims Co., Erie, Pa.

Cleaners (Boiler, Turbine)

Lagonda Mfg. Co. ("Weinland"), Springfield, Ohio
Liberty Mfg. Co. ("Liberty" Heavy Duty), 6509 Susquehanna, Pittsburgh, Pa.
Manning, Maxwell & Moore (Inc.), 85 Liberty, New York
Perry, Earle C. ("Perfection"), Merchants-Laclede Bldg., St. Louis, Mo.
Pierce, Wm. B. Co. ("Dean"), Jewett bldg Buffalo, N. Y.

Cleaners (Car)

Becker Chemical Co., 31 Main, Cincinnati, O.
No-Dust Chemical Co. ("Velox"), 184 La Salle, Chicago, Ill.

Cleaners (Carpet)

(See Sweepers, Carpet)

Cleaners (Corn)

De Loach Mill Mfg. Co., Bridgeport, Conn.
Marseilles Mfg. Co., Marseilles, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
SPROUT, WALDRON & CO., Muncy, Pa.
(See adv. index, end of book)
Union Iron Works, Decatur, Ill.

Cleaners (Drain)

(See Shovels, Drain)

Cleaners (Flax-Seed)

Dickey, A. P. Mfg. Co. ("Dickey"), Racine, Wis.
Johnson & Field Mfg. Co. ("Racine"), Racine, Wis.
Owens, J. L., Co. ("Northwestern"), Minneapolis, Minn.

Cleaners (Gun)

(See Tools, Gun Cleaning & Reloading)

Cleaners (Hand)

Advance Packing & Supply Co. ("Flash" Anti-Septic), 123 Franklin, Chicago, Ill.

Cleaners (Hose)

Rudiger, J. H. ("Rudiger" Automatic), 217 West, New York

Cleaners (Incandescent Lamp)

Crescent Co. ("Bates"), Valparaiso, Ind.
McCreary, Alfred A., 138 Liberty, New York
MORSE, FRANK W. ("Handy"), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

Cleaners (Knife)

Landers, Frary & Clark ("Universal"), New Britain, Conn.

Cleaners (Pavement)

(See also Scrapers, Sidewalk)

American Fork & Hoe Co. (For Stables), Cleveland, O.
Hiles, C. A. & Co. (For Removing Snow), 14th & Western av, Chicago, Ill.
Iowa Farming Tool Co., Fort Madison, Ia.
Pittsburg Shovel Co. ("W. A. Shuster," "Armstrong"), Frick Bldg., Pittsburg, Pa.
Works: Leechburg, Pa.
Union Fork & Hoe Co. (Solid Steel, Snow & Ice), Columbus, O.

*Cleaners (Pipe)

BERNZ, OTTO (Flitercraft Patent), S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)

Cleaners (Pot)

Hamblin & Russell Mfg. Co., Worcester, Mass.

Cleaners (Sack)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Wolff, F., 625 W Boulevard, Kansas City, Mo.

Cleaners (Track)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Chisholm, Valentine, Rockland, Me.
McGuire-Cummings Mfg. Co., 122 N Sangamon, Chicago, Ill.
Ohio Brass Co. ("Monarch"), Mansfield, O.
Root Spring Scraper Co., Kalamazoo, Mich.
Van Dorn & Dutton Co. ("Clark's"), Cleveland, Ohio

Cleaners (Wall Paper)

Antiseptic Mfg. Co., Pittsburg, Pa.
Climax Steam Mfg. Co., Cleveland, O.
Electric Cleanser Co., Canton, O.
Jewel Mfg. Co., 515 Holden pl, Chicago, Ill.
Rutherford, Wm., 467 N Wells, Chicago, Ill.

Cleaners (Window)

Bosley, D. W., Co. "Peerless," "X-L-C-R" Rubber), 303 Fulton, Chicago, Ill.
Goodrich, B. F. Co. (Rubber), Akron, O.
Morgan & Wright (Inc.), (Rubber), Detroit, Mich.
Parker Wire Goods Co., Worcester, Mass.
Phoenix Hardware Mfg. Co., Homer, N. Y.

Cleaning by Vacuum System

(See Vacuum & Suction Sweeping & Cleaning Apparatus & Systems)

Cleanouts

Barrett, Jas. Mfg. Co. ("Barrett's Nonpareil"), 211 Franklin, Boston, Mass.
CENTRAL FOUNDRY CO. ("Sure-Seal," etc.), 37 Wall, New York. (See adv. index, end of book)
Conrad, John F., Elizabeth, N. J.
Estabrook's, R. Sons ("Boston," "Success"), 204 W 1st, S. B., Boston, Mass.
Modern Iron Works (For Extra Heavy Pipe), Quincy, Ill.
Swett, A. L., Iron Works, Medina, N. Y.
Wade Iron Sanitary Mfg. Co. ("Wade"), 43 E Harrison, Chicago, Ill.

Cleats (Boat or Ship)

Laughlin, Thos. Co., Portland, Me.
Marine Hardware Co., Peabody, Mass.
Pusey & Jones Co., Wilmington, Del.
Shelton Co., Derby, Conn.
Wilcox, Crittenden & Co., Middletown, Conn.

Cleats (Car Wiring)

Bryant Electric Co., Bridgeport, Conn.
Burns, Jas. F., 74 N Hutchinson, Phila., Pa.
GENERAL ELECTRIC CO. (Brass, Wood, etc.), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
Ridlon, Frank Co., Boston, Mass.

Cleats (Conduit)

Berger Bros. Co., 237 Arch, Phila., Pa.
Boston Brass Co., Boston, Mass.
Diamond Mfg. Co., Detroit, Mich.
Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
Walworth Mfg. Co., Boston, Mass.
Wolff, L. Mfg. Co., 117 W Lake Chicago, Ill.

Cleats (Fibre Wiring)

AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)
Blake Signal & Mfg. Co. (Compressed), Boston

DELAWARE HARD FIBRE CO., Wilmington, Del.; Works: Marshalltown, Del. (See adv. index, end of book)

DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)

MORRIS ELECTRIC CO., Wilmington, Del.

WILMINGTON FIBRE SPECIALTY CO., Wilmington, Del. (See adv. index, end of book)

Cleats (Porcelain or Clay)

Adamant Porcelain Co., Broadway, Va.
Akron Hi-Potential Porcelain Co., Barberton, O.
Akron Smoking Pipe Co., Mogadore, O.
American Carbon & Battery Co., East St. Louis, Ill.
Anderson Porcelain Co., East Liverpool, O.
Brunt, G. F. Porcelain Works (Porcelain), East Liverpool, O.
Colonial Sign & Insulator Co., Akron, O.
Cook Pottery Co., Trenton, N. J.
Denver Pressed Brick Co., Denver, Colo.
Diamond Porcelain Co., Trenton, N. J.
Electric Porcelain Co. (Porcelain), East Liverpool, O.
Electric Porcelain & Mfg. Co. (Porcelain Only), Trenton, N. J.
Electrical Products Co. ("Nifty," Combination, Waterproof, Cleat & Receptacle), Morristown, N. J.
Empire China Works (Porcelain to Order Only), 156 Greene Brooklyn, N. Y.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Hartford Faience Co., Hartford, Conn.
Imperial Porcelain Works ("Duggan" Porcelain), Trenton, N. J.
Knowles, O. S. ("B-D," "Cartwright"), Boston, Mass.
Pass & Seymour (Porcelain), Solvay, N. Y.
Peru Electric Mfg. Co. (Porcelain Only), Peru, Ind.
Standard China Works (Warren Kimble, Prop.) (Porcelain), Trenton, N. J.
Standard Porcelain Co., New Cumberland, W. Va.
Thomas, R. & Sons Co. (Porcelain Only), East Liverpool, O.
Trenton Porcelain Co., Trenton, N. J.
Union Electrical Porcelain Wks., Trenton, N. J.
Union Porcelain Works, 300 Eckford, Brooklyn, Wirt Mfg. Co., Burrage, Mass. N. Y.

Cleats (Rope)

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

Cleavers (Butchers', Etc.)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
Bishop, Geo. H. & Co. (Family), Cincinnati, O.
Black, John B. ("Wm. Beatty & Sons," "Royal"), Chester, Pa.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Chatillon, Jno. & Sons, 87 Cliff, New York
Christy Knife Co. (Family Cleavers), Fremont, Ohio
Clyde Cutlery Co. (Family), Clyde O.
Evansville Tool Works, Evansville, Ind.
Forsyth Mfg. Co. ("Family," "No. 802"), Buffalo, N. Y.
Foster Bros. & Chatillon Co., Fulton, N. Y.
Klunel Bros., Columbus, O.
Knickerbocker Hardware Co., 299 B'way, New York. Works: Newark, N. J.
Mack & Co., Rochester, N. Y.
Peck, Stow & Wilcox Co. (Family), South-lington, Conn.
Plumb, F. R. (Inc.), Frankford, Phila., Pa.
Richard, Stephen Co. ("S-N" & Family), South-bridge, Mass.
Smith & Hemenway Co., 108 Duane, New York
Washington Cutlery Co., Watertown, Wis.
White, Ira F., & Son Co. (Family Cleaver & Tender), Newark, N. J.
White, L. & I. J. Co. (Family), Buffalo, N. Y.

Clevises (Plow, Etc.)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Empire Plow Co., Cleveland, O.

Climbers (Linemen's)

Blakslee Forging Co. ("Donnelly"), Plantsville, Conn.
Cincinnati Tool Co. ("Hargraves"), Norwood, Cincinnati, O.

Cronk & Carrier Mfg. Co. ("Sure Grip"), Elmira, N. Y.
 Dicke, C. H. Tool Co., Downers Grove, Ill.
 Dupont & Anderson ("Vermont"), St. Johns-Irvington Mfg. Co., Irvington, N. J. bury, Vt.
 Kilborn & Bishop Co., New Haven, Conn.
 Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.
 Lowentraut, P. Mfg. Co., Newark, N. J.
 Oshkosh Logging Tool Co., Oshkosh, Wis.
 Reidy, Jno. J. ("Superior" Drop Forge), New Haven, Conn.
 Smith, H. D. & Co. ("S" Drop Forged), Plantsville, Conn.
 Smith & Hemenway Co. ("Nevertum"), 108 Duane, New York
 Stephens, Wilmot ("Stephens," Bronze with Aluminum), Binghamton, N. Y.
 Utica Drop Forge & Tool Co. ("Nevertum"), Utica, N. Y.

Clinometers

Ainsworth, Wm., & Sons, Denver, Colo.

Clip-Yokes

Capital Lock Nut & Washer Co., Columbus, Ohio

Clippers (Bolt or Rivet)

Allen-Randall Co. ("Allen-Randall"), Springfield, Mass.
 Carolus Mfg. Co., Sterling, Ill. field, Mass.
 Chain Belt Co. ("Levalley"), Milwaukee, Wis.
 Chambers Bros. Co., 52d below Lancaster av, Phila., Pa.
 Champion Tool Co. ("Keystone," "Champion"), Meadville, Pa.
 Columbus Bolt Works Columbus, O.

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
 Metal Stamping Co., 243 West, New York
 Moore Drop Forging Co., Springfield, Mass.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Porter, H. K. ("Easy," "New Easy"), Everett, Mass.

Roberts Mfg. Co. ("Roberts" & "Victor"), Somerville, Mass.
 Schollhorn, Wm. Co. ("Elm City," "Bernard" End Cutting), New Haven, Conn.

Clippers (Bolt, Rod & Wire)

(See Cutters, Bolt; also Cutters, Rod & Wire)

Clippers (Cattle Dehorning)

(See Dehorners)

Clippers (Finger Nail)

Cook, H. C. Co. ("Gem"), Ansonia, Conn.
 Klip-Klip Co. (Klip-Klip), Rochester, N. Y.
 Little River Mfg. Co., Seymour, Conn.
 Smith & Heminway Co., 296 B'way, New York
 Snow & Petreili Mfg. Co., New Haven, Conn.
 Sperry & Alexander Co. (Toolever), 300 B'way New York

Clippers (Hair)

Brown & Sharpe Mfg. Co. (For Barbers), Providence, R. I.
COATES CLIPPER MFG. CO.
 ("Coates" Barbers'), Worcester, Mass. (See adv. index, end of book)

Clippers (Horse)

(See also Horse Clipping Machines)

American Shearer Mfg. Co. ("Priest's"), Nashua, N. H.
 Brown & Sharpe Mfg. Co. (Hand Clippers), Providence, R. I.
 Hotchkiss, Edw. S., Bridgeport, Conn.
 Redman, C. H. & Co., 220 High, Newark, N. J.

Clippers (Orange)

Clauss Shear Co. ("Clauss"), Fremont, O.
 Henry, John T., Mfg. Co., Hamden, Conn.
 National Cutlery Co., Westmoreland & Bondinot, Phila., Pa.
 Wiss, J. & Sons Co., Newark, N. J.

Clippers (Stay Bolt)

(See Pneumatic Stay Bolt Clippers)

*Clippers (Staybolt, Hand Power)

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

Clips (Axle)

Clapp, E. D. Mfg. Co., Auburn, N. Y.
 Cowles, C. & Co., New Haven, Conn.
 Moore, Franklin Co., Winsted, Conn.
 Upson Nut Co., Unionville, Conn.

Clips (Cable Hanging)

(See Hangers, Cable)

Clips (Damper)

Adams Co., Dubuque, Iowa
 Berger Bros. Co., 231 Arch, Philadelphia, Pa.
 Brohard Co. (Malleable Iron), 1624 N 9th, Philadelphia, Pa.
 Meister & Cochran ("Sterling" No-Rivet), Sterling, Ill.
 Taylor & Boggis Foundry Co., Cleveland, O.

Clips (Floor)

Mulvey, Chas. Mfg. Co. (Steel Floor), 18 S Jefferson, Chicago, Ill.

Clips (Hame)

Oliver Iron & Steel Co., Pittsburg, Pa.

Clips (Paper)

Adjustable Clip & Tag Mfg. Co. ("Bull Dog"), 465 Atlantic av., Boston, Mass.
 Business Men's Publishing Co. ("Common Sense"), Detroit, Mich.
 Clipper Mfg. Co. ("Clipper"), 366 Gerard av, New York
 Consolidated Safety Pin Co. ("Eureka"), Bloomfield, N. J.
 Cushman & Denison Mfg. Co. ("Gem," "Ideal"), 240 W. 23d, New York
 Niagara Clip Co. ("Niagara," "Giant," "Cinch"), 155 Waverley pl., New York
 Ring Paper Clip Co. ("Ringly's"), Providence, R. I.
 Tatum, Sam'l C., Co. (Double Spring, etc.), Cincinnati, O.
 Wels Mfg. Co. ("Weis"), Monroe, Mich.

Clips (Plank)

Sullivan, J. H. (For Re-Inforced Concrete Work), Grand Rapids, Mich.

Clips (Sleeper)

Chicago Builders Specialties Co. ("O. K." Wire), 138 Washington, Chicago, Ill.
 Hurd & Haggin, 316 Hudson, New York
 Mulvey, Chas. Mfg. Co. (Steel Floor), 1331 35th, Chicago, Ill.
 Variety Mfg. Co. (Steel), Sacramento & Carroll av., Chicago, Ill.

Clips (Structural Steel)

Streeter, H. C., 31 Indiana, Chicago, Ill.

*Clips (Testing)

MORSE, FRANK W. ("Morse Eureka"), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

Clips (Trolley Wire)

Billings & Spencer Co., Hartford, Conn.

Clips (Wire Rope)

American Cable Clip Co., 39 E. 42d, New York
AMERICAN HOIST & DERRICK CO.
 ("Crosby"), St. Paul, Minn. (See adv. index & branch offices, end of book)
AMERICAN STEEL & WIRE CO.
 ("Crosby"), Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv index & branch offices, end of book)
BRODERICK & BASCOM ROPE CO., 809 N. Main, St. Louis, Mo. (See adv. index, end of book)

Byers, John F. Machine Co., Ravenna, O.
 Contractors Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works: Niagara Falls, N. Y.
 (See adv. index & branch offices, end of book)

Durable Wire Rope Co., 28 Atlantic av, Boston, Mass.
 Hammond Mfg. Co., 28 Atlantic av., Boston, Mass.

Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
 Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
 Leschen, A. & Sons Rope Co., 920 N 1st, St. Louis, Mo.

Macomber-Whyte-Moon Co., 122 Centre, New York
MACOMBER & WHYTE ROPE CO.,
 266 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)

Mockbee, C. M. ("Cincinnati"), Cincinnati, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Roebbling's, John A. Sons Co., Trenton, N. J.
 Terry & Tench Co. (Inc.), Lexington av & 131st, New York
TRENTON IRON CO., Trenton, N. J.,
 & 30 Church, New York. (See adv. index, end of book)

Wilcox, Crittenden & Co., Middletown, Conn.
WRIGHT WIRE CO. ("Crosby"),
 Worcester, Mass. (See adv. index & branch offices, end of book)

Clock Mfrs.

(See also Clocks, Various Kinds)

Ansonia Clock Co., 11 Cliff, New York. Works: Ansonia, Conn.

Bristol Brass Co., Bristol, Conn.
 Chelsea Clock Co., 16 State, Boston, Mass.

Durfee, Walter H. & Co. (Tubular Chime), Providence, R. I.
 Gilbert, W. L. Clock Co. (and Regulators), 37 Maiden lane, New York. Works: Winsted, Conn.

Goodwin & Kintz Co. (Novelty), Winsted, Conn.
HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass. (See adv. index & branch offices, end of book)

INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Ithaca Calendar Clock Co., Ithaca, N. Y.
 Ladd, W. C., Bristol, Conn.

Magneta Co., 120 W 31st, New York
 National Brass & Iron Works (Metal Mantel, etc.), Reading, Pa.

New Haven Clock Co., Chicago, Ill.; 92 William New York; Works: New Haven, Conn.

Parker Clock Co., 32 Warren, N. Y. Works, Meriden, Conn.

Phelps, H. D., Ansonia, Conn.
 Self-Winding Clock Co., 163 Grand av., Brooklyn, N. Y.

Sempire Clock Co. ("Electrometer," No Winding required), 7th & Hickory, St. Louis, Mo.

Sessions Clock Co. (Mantel, Hanging, Regulators, etc.), Forrestville, Conn., & 37 Maiden lane, New York

Thomas, Seth Clock Co., 49 Maiden lane, New York. Works, Thomaston, Conn.

Trinity Electric Clock Co., 92 Lake, Chicago, Waltham Clock Co., Waltham, Mass.

Waterbury Clock Co., Waterbury, Conn.
 Western Clock Mfg. Co. ("America" Alarm, etc.), Peru, Ill.

Clock Movements for Meters Gauges, Etc.

Fiego, Alex. J. R., Lynn, Mass.
 Plumb, David S., 24 Boudinot, Newark, N. J.
 Reeves Mfg. Co., Milford, Conn.
 Waterbury Clock Co., Waterbury, Conn.

Clock Trimmings

Clark, A. N. & Son, Plainville, Conn.
 Gardner's, J. B. Sons, Ansonia, Conn.
 Root, S. E., Bristol, Conn.

*Clocks (Angelus Strikers, Quarter & Half Hour Strikers)

HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass. (See adv. index & branch offices, end of book)

Clocks (Automobile)

(See Clocks & Watches, Dashboard)

Clocks (Electric)

American Watchman's Time Detector Co., 45 Sheriff, Cleveland, O.
 Blodgett Clock Co., 141 Franklin, Boston, Mass.
 Bogart, A. L. Co., 123 Liberty, New York
 Eco Magneto Clock Co., 289 Congress, Boston, Mass.

Herzog Teleseme Co., 137 W 23d, New York
HOWARD, E. CLOCK CO., (Second-ary), 373 Washington, Boston, Mass. (See adv. index & branch offices, end of book)
 Imhauser, E. & Co. (Watchman's), 206 B'way, New York

INDUSTRIAL INSTRUMENT CO., Fox-boro, Mass. (See adv. index & branch offices, end of book)

Magneta Co., 120 W 31st, New York
 New England Electric Clock Co., Bangor, Me.
 Pearce, Frederick Co., 18 Rose, New York
 Pettes & Randall Co., 150 Nassau, New York
 Prentiss Clock Improvement Co., 92 Chambers, New York
 Self-Winding Clock Co., 163 Grand av, B'klyn, N. Y.
 Reeves Mfg. Co., New Haven, Conn.
 Thomas, Seth, Clock Co., 49 Malden Lane, New York, Works: Thomaston, Conn.
 Trinity Electric Clock Co., 92 Lake, Chicago, Ill.
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, New York

Clocks (Electric Alarm)

Darche Mfg. Co. ("Flash Light"), 8303 Halsted, Chicago, Ill.

INDUSTRIAL INSTRUMENT CO., Fox-boro, Mass. (See adv. index & branch offices, end of book)

Manhattan Electrical Supply Co., New York
 Partrick, Carter & Wilkins Co., 22d & Wood, Phila., Pa.

Roche, Wm. ("Wide Awake"), Jersey City, N. J.
 Stanley & Patterson ("Diamond"), 23 Murray, New York

Tardie, E. J., 240 6th av, New York

Clocks (English Hall)

Colonial Mfg. Co., Zeeland, Mich.
 Durfee, Walter H. & Co. (Tubular Chime), Providence, R. I.

Grand Rapids Clock & Mantel Co. (Also Clock Cases, Electric, etc.), Grand Rapids, Mich.

HOWARD, E. CLOCK CO., 373 Wash-ington, Boston, Mass. (See adv. index & branch offices, end of book)

Sempire Clock Co ("Electrometer," No Winding Required), 7th & Hickory, St. Louis, Mo.
 Waltham Clock Co. (Striking or Chiming on Gongs, Bells or Tubes), Waltham, Mass.

Clocks (Locomotive)

Ashcroft Mfg. Co., 85 Liberty, New York, Works: Bridgeport, Conn.
 Belfield, H. & Co., 435 N Broad, Phila., Pa.

CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

HOWARD, E. CLOCK CO., 373 Wash-ington, Boston, Mass. (See adv. index & branch offices, end of book)

INDUSTRIAL INSTRUMENT CO., Fox-boro, Mass. (See adv. index & branch offices, end of book)

Marsh, Jas. P. & Co., 224 Wash'n, Chicago, Ill.
 Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

Thomas, Seth Clock Co., 49 Malden lane, New York. Works: Thomaston, Conn.

Clocks (Marine)

American Steam Gauge & Valve Mfg. Co., Boston, Mass.

Ansonia Clock Co., 11 Cliff, New York
 Ashcroft Mfg. Co., 85 Liberty, New York, Works: Bridgeport, Conn.

Chelsea Clock Co. ("Chelsea"), 16 State, Boston, Mass.

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Gilbert, W. L. Clock Co., Winsted, Conn.

HOWARD, E. CLOCK CO., 373 Wash-ington, Boston, Mass. (See adv. index & branch offices, end of book)

INDUSTRIAL INSTRUMENT CO., Fox-boro, Mass. (See adv. index & branch offices, end of book)

Marsh, Jas. P. & Co., 224 Washington, Chicago, Ill.

NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)

New Haven Clock Co., New Haven, Conn.
 Phelps, H. D., Ansonia, Conn.

Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

Thomas, Seth Clock Co., 49 Malden la, New York. Works: Thomaston, Conn.

Trinity Electric Clock Co., 92 Lake, Chicago, Ill.

Waterbury Clock Co., Waterbury, Conn.

Clocks (Pneumatic)

Hahl Automatic Clock Co. ("Masterclock" Automatic), 1507 N. Maplewood, av., Chicago, Ill.

Johnson Service Co., Milwaukee, Wis.

***Clocks (Processing)**

SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Clocks (Program)

(See Clocks, Self Winding & Programme, Electric)

***Clocks (Secondary Electric)**

HOWARD, E. CLOCK CO., 373 Wash-ington, Boston, Mass. (See adv. index & branch offices, end of book)

INDUSTRIAL INSTRUMENT CO., Fox-boro, Mass. (See adv. index & branch offices, end of book)

Clocks (Self-Winding & Program Electric)

American Watchman's Time Detector Co., 234 B'way, New York

Blodgett Clock Co., 141 Franklin, Boston, Mass.
 Collins Electric Clock Co., St. Louis, Mo.

Columbia School Supply Co., Indianapolis, Ind.
 Engineering Specialty Co., Stamford, Conn.

Frick, Fred. Clock Co., Waynesboro, Pa.

HOWARD, E. WATCH & CLOCK CO., 373 Washington, Boston, Mass. (See adv. index & branch offices, end of book)

INDUSTRIAL INSTRUMENT CO., Fox-boro, Mass. (See adv. index & branch offices, end of book)

Johnson Service Co. (Pneumatic), Milwaukee, Wis.
 Lyche, H. H. & Co. ("Ackerman"), 188 Madison, Chicago, Ill.

Magneta Co., 120 W 31st, New York

Mountain State Electrical Co., Wheeling, W. Va.

New York Standard Watch Co., Jersey City, N. J.

Prentiss Clock Improvement Co., 49 Dey, New York

Self-Winding Clock Co., 163 Grand av, Brooklyn, N. Y.

Standard Electric Time Co., Waterbury, Conn.
 Sempire Clock Co., 7th & Hickory, St. Louis, Mo.

Standard Electric Time Co., Waterbury, Conn.

Trinity Electric Clock Co., 92 Lake, Chicago, Ill.

United Clock Co., Heyworth bldg, Chicago, Ill.

Clocks (Synchronized Systems)

American Watchman's Time Detector Co., 45 Sheriff, Cleveland, O.

Bunnell, J. H. & Co., 20 Park pl, New York, & Milford, Conn.

Herzog Teleseme Co., 137 W 23d, New York

HOWARD, E. CLOCK CO., 373 Wash-ington, Boston, Mass. (See adv. index & branch offices, end of book)

INDUSTRIAL INSTRUMENT CO., Fox-boro, Mass. (See adv. index & branch offices, end of book)

Magneta Co., 120 W 31st, New York

Pettes & Randall Co., 150 Nassau, New York

Prentiss Clock Improvement Co. (Synchronized System of Time Plants), 92 Chambers, New York

Self-Winding Clock Co., 163 Grand av, Brooklyn, N. Y.

Sempire Clock Co., 7th & Hickory, St. Louis, Mo.

Trinity Electric Clock Co., 92 Lake, Chicago, Ill.

Clocks (Time-Recording System)

(See also Time Recorders)

American Watchman's Time Detector Co., 234 B'way, New York

Automatic Time Stamp Co., 160 Congress, Boston, Mass.

Crouse-Hinds Co. ("Hawley"), Syracuse, N. Y.

Dey Time Register Co., Endicott, N. J.

HOWARD, E. CLOCK CO., 373 Wash-ington, Boston, Mass. (See adv. index & branch offices, end of book)

TOWER and STREET CLOCKS, also WATER TOWER and STABLE CLOCKS for Country Estates

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CLARENCE H. MACKAY, Esq., McKim, Mead & White, Architects.

GEORGE W. VANDERBILT, Esq., Richard M. Hunt, Architect.

THOMAS W. LAWSON, Esq., Coolidge & Carlson, Architects.

HOWARD GOULD, Esq.

DR. LESLIE D. WARD

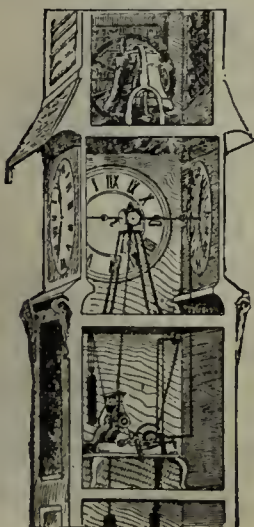
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THE E. HOWARD CLOCK CO.

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 67 Maiden Lane,
 New York, N. Y.
 103 State St., Chicago, Ill.



INDUSTRIAL INSTRUMENT CO., Fox-
 boro, Mass. (See adv. index & branch
 offices, end of book.)
 Dey Time Register Co., Syracuse, N. Y.
 International Time Recording Co. ("Rochester"),
 Binghamton, N. Y.
 Johnson Service Co. (Pneumatic), Milwaukee,
 Sanford, C. E., 18 B'way, New York Wls.
 Simplex Time Recorder Co. ("Simplex"), Gard-
 ner, Mass.

Clocks (Tower)

HOWARD, E. CLOCK CO. (Angelus
 Strikers & Quarter & Half-Hour Strikers),
 373 Washington, Boston, Mass. (See adv.
 index & branch offices, end of book.)
INDUSTRIAL INSTRUMENT CO., Fox-
 boro, Mass. (See adv. index & branch
 offices, end of book.)

Johnson, Nels, Manistee, Mich.
 Johnson Service Co. (Pneumatic), Milwaukee,
 Wls.
 Prentiss Clock Improvement Co., 92 Chambers,
 New York
 Self-Winding Clock Co., 163 Grand av. Brook-
 lyn, N. Y.
 Standard Electric Time Co. (Electric), Water-
 bury, Conn.
 Stevens, G. M., 15 Chardon, Boston, Mass.
 Thomas, Seth Clock Co., 49 Maiden la, New
 York; Works: Thomaston, Conn.

Clocks (Watchman's)

(See also Time Recorders)

American Watchman's Time Detector Co.
 ("Cleveland," Magneto American Watch-
 man's Time Detector), Cleveland, O.
 American Watchmen's Time Detector Co., 234
 B'way, New York
BUNNELL, J. H., & CO., Park pl.,
 Church, New York. (See adv. index, end
 of book)

Eco Magneto Clock Co., Boston, Mass.
 Edwards & Co., 140th & Exterior, New York
 General Watchman's Time Detector Co., 92
 Chambers, New York
 Hamilton, E. A. & Co. ("Waggoner" Magneto),
 Grand Rapids, Mich.
 Hardinge Bros. ("Beyer" Portable Time De-
 tectors), 1036 Lincoln av, Chicago, Ill.
 Hausberg, E. O., 45 Maiden la, New York
 Hersey Mfg. Co. ("Tilden"), Boston, Mass.
 Holtzer-Cabot Electric Co., Brookline, Mass.
 Hoppe, Paul F., 34 Church, New York

HOWARD, E. CLOCK CO. (Elec-
 tric), 373 Washington, Boston, Mass. (See
 adv. index & branch offices, end of book)
 Imhauser, E. & Co. (Portable & Electric), 206
 B'way, New York

INDUSTRIAL INSTRUMENT CO., Fox-
 boro, Mass. (See adv. index & branch
 offices, end of book)

Kopp, Robt, 177 B'way, New York
 Magneto Watchman's Clock Co., B'klyn, N. Y.
 Marshall Electric Mfg. Co. ("Redding"), Bos-
 ton, Mass.

Nanz Clock Co. ("Hahn"), 178 Fulton, New
 York

National Time Recorder Co. ("Twentieth Cen-
 tury"), 240 W Lake, Chicago, Ill.

Newman Clock Co. (Stationary, Portable &
 Electric), Masonic Temple, Chicago, Ill.

Riggs & Bro. (Electric & Portable), 310 Mar-
 ket, Philadelphia, Pa.

Sanford, Chas. E. (Night Watchman's Regis-
 ter), 18 B'way, New York

Self-Winding Clock Co., 163 Grand av, Brook-
 lyn, N. Y.

Self-Winding Clock Co., Brooklyn, N. Y.

Time Keeper Co. ("Argus"), Masonic Temple,
 Chicago, Ill.

Clocks & Watches (Dashboard)

Auto Rebuilding Co., 1530 College av, Indian-
 apolis, Ind.

Chelsea Clock Co., 16 State, Boston, Mass.

Clark, A. N. & Son ("Hex"), Plainville, Conn.

McGiehan Odometer & Mfg. Co., New York

Post & Lester Co. ("Regal"), Hartford, Conn.

Thorn Mfg. Co., Salem, Mass.

Wilson Auto Clock Co. (Inc.) (Illuminated), 935
 Arch, Philadelphia, Pa.

Closets (Car)

Duner Co. ("Duner" Enameled Iron), 116 S
 Clinton, Chicago, Ill.

Closets (Dry Earth)

Heap, William & Sons, Grand Haven, Mich.

Closets (Park)

American Steel House Co., 796 11th av, New
 York

Closets (Sanitary)

(See Water Closet Manufacturers; also Water
 Closet Trade Names)

Cloth (Bolting)

(See Bolting Cloth; also Wire Cloth)

*Cloth (Brattice)

IRVING MFG. & TOOL CO. (J. F.
 McCoy, Prop.), 169 Chambers, New York.
 (See adv. index, end of book)

Cloth (Window Shade)

(See Window Shade Manufacturers)

Clothes Dryers (Hot Air)

Chicago Dryer Co., 381 Wabash av, Chicago, Ill.
 Hawkins, Rollyer Co., Indianapolis, Ind.
 Hill-Canton Dryer Co., Canton, O.
 Miller, Wm., Range & Furnace Co., Cincin-
 nati, O.

Clothes Dryers (Steam, Hot Water or Gas)

Chicago Dryer Co., 381 Wabash av, Chicago, Ill.
 Dryer Mfg. Co. ("Chicago;" also Hot Air), 204
 E 26th, New York
 Hill-Canton Dryer Co., Canton, O.
 Mannen & Esterly Co., 2247 St. Clair, Cleve-
 land, O.
 Metal Fire Proof Clothes Dryer Co., 204 E
 26th, New York
 Steel Roll Machine Co., 254 E. Madison, Chi-
 cago, Ill.

Clothes Drying Frames

American Mfg. & Novelty Co., (Bars, Clothes
 Horses, etc.), Erie, Pa.
 Chapman, C. A. ("Superior" Balcony, Veranda,
 Window, etc.), Geneva, N. Y.
 Cooper & McKee, 110 Lorimer, Brooklyn, N. Y.
 Dryer Mfg. Co., 204 E 26th, New York
 Fleck, M., 442 Pleasant av, New York
 Hill-Canton Dryer Co., Canton O
 Hill Dryer Co. (Also for Fire Escapes, Roof
 or Lawn), Worcester, Mass.
 Martcross Co. ("Martcross" Clothes Bars), 40
 Dearborn, Chicago, Ill.
 Moulton, C. W. & Co. (Folding, etc.), Somer-
 ville, Mass.
 Munnsville Plow Co. ("Munnsville Best"),
 Munnsville, N. Y.
 Nashua Novelty Works, Nashua, N. H.
 Phillips, A. J. Co., Fenton, Mich.
 Smith, G. W., 132 Manhattan, New York
 Toledo Cooker Co., Toledo, O.

*Clothes Lines

(See also Rope, Cotton, Etc.)

SAMSON CORDAGE WORKS, 88
 Broad, Boston, Mass. (See adv. index, end
 of book)

SILVER LAKE CO., 82 Chauncy.
 Boston, Mass. (See adv. index, end of book)

TUCKER & CARTER ROPE CO. (Braided
 & Twisted Cotton Rope), 76 South & 167
 Maiden lane, New York. (See adv. in-
 dex, end of book)

*Clothes Lines (Wire)

AMERICAN STEEL & WIRE CO.,
 Commercial Nat'l Bank bldg, Chicago, Ill.
 (See adv. index & branch offices, end of book)

Clothes Pins

(See Pins, Clothes)

Clothes Reel Centers (Iron)

Adams Company, Dubuque, Ia.
 Rumsey & Co. (Ltd.) (Cast Iron Revolving),
 Seneca Falls, N. Y.

Clotheswashers

Keller Mfg. Co. ("Santo," Electric & Hand
 Power), 21st Allegheny av, Phila., Pa.

Clothing (Oiled)

Boynton's Oiled Clothing Co., Gloucester,
 Mass.

CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end
 of book)

Corliss, C. R., & Son, Gloucester, Mass.
 Frost Oil Clothing Co., Gloucester, Mass.
 Gloucester Oiled Clothing Co., Gloucester,
 Mass.

Nelson, John (Est of), Gloucester, Mass.
 Nickerson, Levi, Gloucester, Mass.

Rowe, Joseph H., Co., Gloucester, Mass.
 Tower, A. J., Co. (Fish Brand), Vermont &
 Simmon, Boston, Mass.

Clothing (Rubber)

La Crosse Rubber Mills Co., La Crosse, Wis.

Cloths (Filter)

Hoegge, Wm. H. Co. (Inc.), 140 S Main, Los
 Angeles, Cal.
 Redfield, Robt. S. & Co., 90 West, New York

Clusters (Fixture)

(Ceiling or Wall Bracket Fixtures)

American Brass & Copper Co., 138 Lafayette,
 New York
 Columbia Gas Fixture Co., 148 N 4th, Phila.,
 Pa.

Dale Co. ("Weeks"), 352 W 13th, New York

Dayton Mfg. Co., Dayton, O.

Faries Mfg. Co. ("Universal"), Decatur, Ill.

Federal Electric Co. ("Meridian"), Lake &
 Desplaines, Chicago, Ill.

Forg, Peter, Somerville, Mass.

FRANK, I. P., 551 Pearl, New York.
 (See adv. index, end of book)

Gall-Webb Mfg. Co. ("Universal"), Buffalo,
 N. Y.

Gleason, E. P. Mfg. Co., 37 Murray, New
 York

GENERAL ELECTRIC CO., Schenec-
 tady, N. Y., & 30 Church, New York. (See
 adv. index & branch offices, end of book)

Greenwood Mfg. & Supply Co., Boston, Mass.

H-C-K Co., 30 Greenwich av, New York

Hubbell, Harvey (Inc.), Bridgeport, Conn.

McLeod, Ward & Co., 17 Thames, New York

MORSE, FRANK W., 516 Atlantic av,
 Boston, Mass. (See adv. index, end of
 book)

Post-Glover Electric Co., 314 W 4th, Cincin-
 nati, O.

Smith, Theodore, 151 Throop, Chicago, Ill.

Wells Light Mfg. Co. ("Wallworks"), 14
 Church, New York

Wheeler Reflector Co., 156 Pearl, Boston, Mass.

White, Jas. H. Mfg. Co., 111 N 3d, Brooklyn,
 N. Y.

Clusters (Wireless Fixture)

Benjamin Elec. Mfg. Co. ("Anti-Night"), 40 W
 Jackson boul, Chicago, Ill.

Crescent Co. ("Harter"), Valparaiso, Ind.

Dale Co. ("Weeks"), 9th av & 13th, New York

Faries Mfg. Co., Decatur, Ill.

Federal Electric Co., 124 W Lake, Chicago, Ill.

GENERAL ELECTRIC CO., Schenec-
 tady, N. Y., & 930 Church, New York.
 (See adv. index & branch offices, end of book)

Clutches (Arc Lamp)

Palste, H. T. Co., 32d & Arch, Phila., Pa.

Phila. Electrical & Mfg. Co. ("Perfect"), 2011
 Market, Phila., Pa.

Turner Brass Works, Sycamore, Ill.

Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, N. Y.

*Clutches (Automobile)

MERCHANT & EVANS CO. (Inc.), 517
 Arch, Phila., Pa. (See adv. index &
 branch offices, end of book)

Clutches (Electric)

CUTLER-HAMMER CLUTCH CO., Mil-
 waukee, Wis. (See adv. index & branch
 offices, end of book)

ELECTRIC CONTROLLER & SUPPLY
 Co., Central & Giddings, Cleveland, O. (See
 adv. index, end of book)

Williams Electric Machine Co., Akron, O.

Clutches (Friction)

(See also Pulleys, Friction Clutch; also Machinery, Power Transmitting)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Tool & Machine Co. ("Worrall," Improved), 109 Beach, Boston, Mass.

American Twist Drill Co. ("Worrall"), Laconia, N. H.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barnard & Leas Mfg. Co. ("Barnard"), Moline, Ill.

Bauroth Bros., Springfield, Ohio.

Becker-Brinard Milling Machine Co., Hyde Park, Mass.

Brightman Machine Co., Cleveland, O.

BLISS, E. W., CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

Burrell Mfg. Co., 251 S. Jefferson, Chicago, Ill.

Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.

Carruthers-Fithian Clutch Co., Grove City, Pa.

Cresson, Geo. V. Co., Allegheny av W of 17th, Phila., Pa., & West St. bldg., New York

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Dodge Mfg. Co., Mishawaka, Ind.

Eastern Machinery Co. ("Frisbie"), New Haven, Conn.

Edgemont Machine Co. ("Edgemont"), Dayton, O.

Emerson Mfg. Co., Lawrence, Mass.

Erie Clutch & Pulley Co., Erie, Pa.

Essmuller Mill Furnishing Co. ("Peerless"), St. Louis, Mo.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Faneull Watch Tool Co. ("The Rivett"), 1 Brooks, Br., Boston, Mass.

Farrel Foundry & Machine Co. (Coll), Ansonia, Conn.

Flier & Stowell Co., Home Office, Milwaukee, Wis.

Frost Mfg. Co. ("Frost"), Galesburg, Ill.

Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.

Hartford Machine Screw Co., Hartford, Conn.

Hill Clutch Co., ft 58th, N W, Cleveland, O.

Hunt, Rodney, Machine Co., Orange, Mass.

Hunter, Jas. Machine Co., North Adams, Mass.

Jacobson Machine Co., Warren, Pa.

Johnson, Carlyle Machine Co. ("Johnson"), Hartford, Conn.

Jones, W. A. Foundry & Machine Co. ("Lemley"), 142 W North av., Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Keasey Pulley Co., Toledo, O.

Klein, Chas. O. ("The Bull Dog"), 2850 N Marshall, Phila., Pa.

Link Belt Co. ("Ewart"), W 39th cor Stewart av., Chicago, Ill., & 299 B'way, New York

McMahon & Co., Worcester, Mass.

Medart Patent Pulley Co., 3500 DeKalb, St. Louis, Mo.

MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Minster Machine Co., Minster, O.

Moore & Lorenz Co., 816-822 Fulton, Chicago, Ill.

Moore & White Co., 15th & Lehigh av., Phila., Pa.

Morgan Construction Co., Worcester, Mass.

Nugent Tool Co. ("Economy"), 2163 Central av., Cincinnati, O.

Oesterlein Machine Co., 2850 Spring Grove av., Cincinnati, O.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

PATTERSON, GOTTFRIED & HUNTER, (Ltd.), 211 Centre, New York

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Poole Engineering & Machine Co., Baltimore, Md.

Rivett Lathe Mfg. Co. ("The Rivett"), Brighton, Boston, Mass.

Schultz, A. L., & Son, 570 Elston av., Chicago, Ill.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Skillin & Richards Mfg. Co. ("Muir" Steel Plate, etc.), 127 Fulton, Chicago, Ill.

Smith, T. H. Cotton Mill (Phillips Automatic), Jamestown, N. Y.

Smith, Jas. Woollen Machinery Co. (Inc.), 413 Race, Phila., Pa.

Snow & Petrelli Mfg. Co. ("Joe's"), New Haven, Conn.

SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)

Standard Clutch Mfg. Co. ("Standard"), Sidney, O.

Stralt, H. N. Mfg. Co., Kansas City, Mo.

Stephens-Adamson Mfg. Co., Aurora, Ill.

Turner Machine Co., 2049 N 2d, Phila., Pa.

Variable Speed Clutch Co. (Variable Speed), Milwaukee, Wis.

WEBSTER MFG. CO., 1075 W. 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

WELLER MFG. CO. (And Jaw), 124 E North av., Chicago, Ill. (See adv. index, end of book)

Williams Foundry & Machine Co. ("Akron"), Akron, O.

Woods, T. B. & Sons Co., Chambersburg, Pa.

Clutches (Gas Engine)

Carruthers-Fithian Clutch Co., Grove City, Pa.

Grand Rapids Gas Engine & Yacht Co. (Friction Reversible), Grand Rapids, Mich.

Johnson Carlyle Machine Co. (Friction), Hartford, Conn.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Smith, T. H. Cotton Mill ("Phillips"), Jamestown, N. Y.

Variable Speed Clutch Co. (Variable Speed), Milwaukee, Wis.

Clutches (Magnetic)

CUTLER-HAMMER CLUTCH CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Dodge Mfg. Co., Mishawaka, Ind.

Williams Foundry & Machine Co. ("Akron"), Akron, O.

Coal Breakers

(See Crushers, Coal & Coke)

*Coal Buckets (Automatic Steam)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

Coal Chutes

CANTON FOUNDRY & MACHINE CO. (Window), Canton, O. (See adv. index, end of book)

Chappell Furnace Co. ("Majestic," Steel), Morenci, Mich.

Consolidated Iron Works, Hoboken, N. J.

Corrigan, McKinney & Co., Scottdale, Pa.

Cyclopean Iron Works, Jersey City, N. J.

Eagle Iron Works (for Mines), Des Moines, Ia.

FAIRBANKS, MORSE & CO., Wabash av., & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Fairmont Mining Machinery Co. (For Mines), Fairmont, W. Va.

Grand Rapids Foundry Co. ("Roenius," one piece steel), Grand Rapids, Wis.

Helmick Foundry & Machine Co., Fairmont, W. Va.

Hendrick Mfg. Co., Carbondale, Pa.

Holland Furnace Co., Holland, Mich.

Howe Scale Co. of Illinois, 1315 Wabash av., Chicago, Ill.

JEFFREY MFG. CO. (Also Chutes & Screens Combined), Columbus, O. (See adv. index & branch offices, end of book)

Kelly Mfg. Co., Waterloo, Iowa

Koller, E. L. Iron Works (Galvanized), Newark, N. J.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Lanz, M. & Sons (Steel), Carson & 29th, Pittsburg, Pa.

Lyon Metallic Mfg. Co., Aurora, Ill.

Majestic Furnace & Foundry Co. ("Majestic"), Huntington, Ind.

Ohlo Galvanizing & Mfg. Co. (Steel), Niles, O.

RIESECK, P., Allegheny av & Rebecca, Allegheny, Pa. (See adv. index, end of book)

Sackett Screen Co., Fredonia, N. Y.

Schalkenback & Budke (Steel), Jersey City, N. J.

Schultz, C. H. ("All-Steel" Burglar Proof), St. Joseph, Mo.

Sheet Metal & Supply Co., Lancaster, Pa.

Teller, R. K., Unadilla, N. Y.

Union Iron Works, Hoboken, N. J.

Coal Chutes (Locomotive Coal-ing, Etc.)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index, end of book)

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Link Belt Co., W 39th cor Stewart av., Chicago, Ill., & 299 B'way, New York

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

Stebbing, W. L., Monadnock blk., Chicago, Ill.

Williams, White & Co., Moline, Ill.

Coal Cutting Machines

(See Machines, Coal Cutting)

Coal Dock Outfits

(See Conveyors, Coal; also Tubs, Hoisting; also Tubs, Self-Dumping; also Derricks; also Hoisting Engines; also Gas & Gasoline Engines)

Coal Handling Plant Construction

(See Coal Storage Plant Construction; also Machinery, Coal & Ore Handling; also Conveyors, Coal & Ash Handling)

Coal Hole Covers

American Brake Shoe & Foundry Co., Mahwah, N. J.

AMERICAN MASON SAFETY TREAD Co. ("Safety"), 702 Old South bldg., Boston, Mass. (See adv. index & branch offices, end of book)

Barber Mfg. Co. (With or Without Glass), Ashtabula, O.

Bethlehem Foundry & Machine Co., South Bethlehem, Pa.

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)

CANTON FOUNDRY & MACHINE CO. (Solid & Ventilated), Canton, O. (See adv. index, end of book)

CHICAGO SIDEWALK LIGHT CO., 103 Reaper blk., Chicago, Ill. (See adv. index, end of book)

Dauchy Iron Works, 84 Illinois, Chicago, Ill.

Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.

Hayes Foundry Co., Lynn, Mass.

Love Bros. (Inc.), Aurora, Ill.

McLagan Foundry Co., New Haven, Conn.

MACKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)

Madison Foundry Co. ("Acme"), 935 Addison rd., N. E., Cleveland, O.

Mesker, Geo. L. & Co., Evansville, Ind.

Metropolitan Iron Foundry (Rings & Covers), 548 W 55th, New York

MEYERS, FRED. J. MFG. CO., Ham-ilton, O. (See adv. index, end of book)

Paxton & Vierling Iron Works, Omaha, Neb.

SMITH, F. P., WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Vierling, McDowell & Co., 23d & Stewart av., Chicago, Ill.

Coal Mining Machinery

(See Machinery, Coal Mining)

Coal Storage Plant Construction

BROWN HOISTING MACHINERY CO., Cleveland, O., & 26 Cortlandt, New York. (See adv. index, end of book)

Dodge, J. M., Co. (Complete Plants), Nicetown, Philadelphia, Pa.

Hale & Duncan, Schofield bldg., Cleveland, O.

HAYWARD CO., THE, 50 Church, New York. (See adv. index, end of book)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Macdonald Engineering Co., 98 Jackson boul., Chicago, Ill.

MEAD-MORRISON MFG. CO., Cam-
bridge (Boston), Mass., & 11 B'way, New
York. (See adv. index & branch offices, end
of book)

Roberts & Schaefer Co. (Engineers' & Contrac-
tors' Specialties, Washeries, Tipples, Power
Houses, Bins & Coaling Stations), Old Col-
ony bldg. Chicago, Ill.
Wellman-Seaver-Morgan Co., Cleveland, O.
Williams, White & Co. (For Coaling Stations
by Gravity), Moline, Ill.

Coal Tar Products

Alton Chemical Co., Bradford, Pa.
American Naval Stores Co. (of New York), 21
State, New York
Armitage Mfg. Co., Richmond, Va.
Barrett Mfg. Co., Land Title bldg. Phila-
delphia, Pa.
Bartholomew Roofing Co. (Dealers), Memphis,
Tenn.

CABOT, SAMUEL, 141 Milk, Boston,
Mass., & 28 Dearborn av, Chicago, Ill. (See
adv. index & branch offices, end of book)
City Gas Co. (Gas & Coal Tar), Norfolk, Va.
Gallipolis Gas & Coke Co., Gallipolis, O.
Garrett, C. S. & Son Co., 22 S Marshall,
Philadelphia, Pa.
General Roofing Mfg. Co., East St. Louis, Ill.,
& Chicago, Ill.
Huggins, Jas. & Son (For Rubber Mfrs.), Mal-
den, Mass.

Lewis Roofing Co., Rock Island, Ill.
Lyons, Jas., Evergreen, Borough of Queens,
New York

Milwaukee Gaslight Co., Milwaukee, Wis.
Nashville Chemical Co., Nashville, Tenn.
Nashville Roofing & Paving Co., Nashville,
Tenn.

National Aniline & Chemical Co., 100 William,
New York
National Coal Tar Co., 17 Battery pl, New York
Noble, H. & Co., 623 S Caroline, Baltimore, Md.
Schoellkopf, Hartford & Hanna Co., Buffalo,
N. Y., & 100 William, New York
Stelwagon Mfg. Co., 19th & Washington av,
Phila., Pa.

Susquehanna Roofing Mfg. Co., Cly, Pa.
Union Roofing & Mfg. Co., St. Paul, Minn.
Warren Bros. Co., 93 Federal, Boston, Mass.
Warren Chemical & Mfg. Co., 17 Battery pl,
New York

WATSON, H. F. Co., Erie, Pa. (See
adv. index & branch offices, end of book)
Wilckes, Martin, Wilckes Co. (Coal Tar
Only), 135 William, New York

Coal Tipples & Trestles (Steel)
(See Tipples, Mine, with the Word Steel Fol-
lowing Their Name.)

Coal Tubs (Self-Dumping)

(See Tubs, Self-Dumping)

Coal Washing Machinery

(See Machinery, Coal Washing)

Coal & Coke Crushing & Screen- ing Plants

Heyl & Patterson, Pittsburgh, Pa.
JEFFREY MFG. CO., Columbus, O. (See
adv. index & branch offices, end of book)
Phillips Mine & Mill Supply Co., Pittsburgh, Pa.

Coal & Ore Handling Machinery

(See Conveyors, Coal; also Machinery, Coal &
Ore Handling)

Coating (Rope & Cable)

(See Wire Rope Coating & Lubricant)

Coatings (Cast Iron Pipe)

Armitage Mfg. Co., Richmond, Va.
Highland Chemical Products Co., Connells-
ville, Pa.
Riesenman Mfg. Co. (Ltd.) ("Eclipse"), Frank-
lin, Pa.

Cobalt (Peroxide)

Harshaw, Fuller & Goodwin Co., Cleveland,
Ohio

Cobblers' Outfits

Enterprise Mfg. Co., N. 3d, cor. Dauphin, Phila-
delphia, Pa.
Wrightsville Hardware Co., Wrightsville, Pa.
Sacks, Louis, Newark, N. J.
Root Bros. Co., Plymouth, Ohio.

Cock Eyes & Rings

Oliver Iron & Steel Co., Pittsburg, Pa.

Cocks (Air)

Asbell, S. J. Co., Paterson, N. J.
Buckeye Iron & Brass Works, Dayton, O.
Canton Brass Co., Canton, O.
Detroit Brass Works, Detroit, Mich.
Eagle Brass Works, Detroit, Mich.

LUNKENHEIMER CO., General Of-
fices & Works: Beckman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

McRAE & ROBERTS CO., 227 Campbell av,
Detroit, Mich. (See adv. index, end of
Michigan Lubricator Co., Detroit, Mich. book)

NATIONAL GAUGE CO., 168 Stn.
Brooklyn, N. Y. (See adv. index, end of
book)

Nolte Brass Co., Springfield, O.
Queen City Brass & Iron Works, Cleveland, O.
Roberts Brass Mfg. Co., Detroit, Mich.
Schaeffer & Budenberg Mfg. Co., 963 Kent
av., Brooklyn, N. Y.

Standard Brass & Iron Works (Screwed for
Wood Caskets for Brewers, etc.), Mil-
waukee, Wis.

WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of
book)

Cocks (Air Brake Hose)

Quincy, Manchester, Sargent Co. ("Anew"),
Plainfield, N. J.

Cocks (Ale & Beer)

American Foundry & Mfg. Co., 11th & Heb-
ert, St. Louis, Mo.

Asbell, S. J. Co., Paterson, N. J.
Bishop & Babcock Co., 49th & Hamilton av.,
Cleveland, O.

Chambers & Ainslee, 2 Commerce, Newark,
Clark Novelty Co., Rochester, N. Y. N. J.
Cleveland Faucet Co., 706 Frankfort av, N.W.
Cleveland, O.

Cleveland Brass Co., Cleveland, O.
Hamilton, Jno. (Beer or Bar), Bridgeport,
Haydenville Co., Haydenville, Mass. Conn.

Homer Brass Works (Inc.), 231 Race, Phila-
delphia, Pa.

Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.
Liberty Brass Works, 303 W. Lombard, Bal-
timore, Md.

LUNKENHEIMER CO., General Of-
fices & Works, Beckman & Waverly, Cin-
cinnati, O. (See adv. index & branch of-
fices, end of book)

McCambridge & Co., Phila., Pa.
McNab & Harlan Mfg. Co., 56 John, New
York

Michigan Brass & Iron Works, Detroit, Mich.
Mullany's, Jas. Sons, 141 E 25th, New York
Owen & Salter, N 12th & Buttonwood, Phila-
delphia, Pa.

Peck Bros. & Co., New Haven, Conn.
Pioneer Brass Works, Indianapolis, Ind.
Powhatan Brass & Iron Works, Charlestown,
W. Va.

Strater, Herman & Sons, Boston, Mass.
Varwig Mfg. Co., 120 Opera pl., Cincinnati, O.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of
book)

Cocks (Ball)

Adee, Fred. & Co., 44 Cliff, New York
Ahrens & Ott Mfg. Co., Louisville, Ky.
American Steam Gauge & Valve Mfg. Co., 208
Camden, Boston, Mass.

Badger Brass Mfg. Co., Kenosha, Wis.
Barrett, Jas. Mfg. Co., 48 Pearl, Boston, Mass.
Boston Brass Co. ("B. B." High Pressure), 36
Oliver, Boston, Mass.

Boys, Porter & Co., Connellsville, Pa.
Burlington Brass Works ("Hartford"), Bur-
lington, Wls.

Cahill-Swift Mfg. Co., 20 S 12th, St. Louis, Mo.
Crampton-Farley Brass Co., Kansas City, Mo.
Columbus Brass Co., Columbus, O.

Connolly, P. ("Connolly"), 1154 Atlantic av.,
Brooklyn, N. Y.

Cooper, W. S. Brass Works, 437 N 12th, Phila.,
Pa.

Coyne & Delany, 303 Rodney, Brooklyn, N. Y.
Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end
of book)

Dalton & Ingersoll Co., 175 High, Boston, Mass.
Dearborn Brass Co., Cedar Rapids, Ia.

D'Este, Julian & Co., 24 Canal, Boston, Mass.
Douglas, Jno. Co., 900 Poplar, Cincinnati, O.
Edwardsville Brass Co., Edwardsville, Ill.
Eureka Valve Co. ("O-K," Self-Closing), 19
High, Boston, Mass.

Exeter Brass Works, Exeter, N. H.
Fleck Bros. Co., 44 N 5th Phila., Pa.

Fleming, G. W. Co. ("Horth"), Bradford, Pa.
Foster, F. W. Mfg. Co. ("Nevriek"), 99
Haverhill, Boston, Mass.

Frost Mfg. Co. ("No. 577"), Kenosha, Wis.
Go. Iitz, H. G., Oak Park, Ill.

Haines, Jones & Cadbury Co., 1136 Rldge av,
Phila., Pa.

Haydenville Co., Haydenville, Mass.
Heap, Wm. & Sons, Grand Haven, Mich.
Hoffman, B., Mfg. Co., 257 6th, Milwaukee,
Wis.

Hoffman & Billings Mfg. Co., Milwaukee,
Wis.

Homer Brass Works (Inc.), 231 Race, Phila.,
Huxley Valve Co. ("Huxley"), 281 Chicago,
Buffalo, N. Y.

Hyland, W. J. Mfg. Co. (Clark), Springfield,
Ideal Mfg. Co., Detroit, Mich. Mass.

Illinois Malleable Iron Co., 515 Diversey boul.
Chicago, Ill.

Jones, Owen H., Hartford, Conn.
Libby, Harlow & Co., 69 Pearl, Boston, Mass.

McCambridge & Co. (Ltd.), 320 N 20th,
Philadelphia, Pa.

McDonald, A. Y. & Morrison Mfg. Co., Du-
buque, Iowa

Meyer-Sniffen Co., 11 W 36th, New York
Milwaukee Brass Mfg. Co., Milwaukee, Wis.

Monarch Brass Co., Cleveland, O.
Mott, J. L. Iron Works, 118 5th av, New York
Mueller, H. Mfg. Co., Decatur, Ill.

Murdock Mfg. & Supply Co., 426 Plum, Cin-
cinnati, O.

National Mfg. & Supply Co. ("National" for
High or Low Closet Tanks), Minneapolis,
Minn.

National Supply Co., Toledo, O.
Nelson, N. O. Mfg. Co., St. Louis, Mo.
Noppel Pump Co., Hartford, Conn.

Ohio Pump & Brass Co. ("Triumph"), Colum-
bus, O.

Oswego Bronze & Foundry Co., Oswego, N. Y.
Park & McKay Co., Detroit, Mich.

Peck Bros. & Co., New Haven, Conn.
Plumbing & Steam Fitting Supply Co., Min-
neapolis, Minn.

Powell, Wm. Co., 2525 Spring Grove av, Cin-
cinnati, O.

Powhatan Brass & Iron Works, Charlestown,
Register Co., Westminster, Md. W. Va.

Rumsey, L. N. Mfg. Co., St. Louis, Mo.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

S. & I. Co. ("S. & I."), Springfield, Mass.
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.

Sanitary Mfg. Co. ("Reliable"), Hamilton, O.
Scully, W. J., Ventilator & Mfg. Co., De-
troit, Mich.

SIMMONS, JOHN, CO. ("Rothchild"), 104-
110 Centre, New York. (See adv. index,
end of book)

Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.

Syracuse Faucet & Valve Co. ("Syracuse"),
Syracuse, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.
Trenton Brass & Machine Co., Trenton, N. J.

Union Brass & Metal Mfg. Co., St. Paul, Minn.
Universal Tool Co., Springfield, Mass.

Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
Western Brass Mfg. Works, 21st & Rockwell,
Chicago, Ill.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
Wolverine Brass Works. ("Dale"), Grand
Rapids, Mich.

Young, Jos. H. ("N. C." Glass Slot), 80 High,
Boston, Mass.

Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

Cocks (Basin)

American Brass Mfg. Co., 1525 E. 49th,
Cleveland, O.

Rashin Co. (Self-Closing), Warren, Pa.
Burlington Brass Works (Fuller & Compres-
sion), Burlington, Wls.

Central Brass Works ("Standard"), Kansas
City, Mo.

Dearborn Brass Co. (Self-Closing), Cedar
Rapids, Ia.

Eagle Brass Works, Detroit, Mich.
Eastern Brass Co. ("Maryland" Compression),
150 Nassau, New York

Elgin Brass Co., Cleveland, O.
Federal Manufacturing Co., 160 State, Chi-
cago, Ill.

McCambridge & Co., 315 N 20th, Phila., Pa.
Mayer, Lane & Co., 128 White, New York

Meyer-Sniffen Co., 11 W 36th, New York
Mott, J. L. Iron Works, 118 5th av, New York
Mueller, H., Mfg. Co. (Fuller), Decatur, Ill.

Register Co., Westminster, Md.

Sanitary Co., Cleveland, O.
Stebbins, E., Mfg. Co. ("Broughton" Self-Closing), Springfield, Mass.
Union Brass & Metal Mfg. Co., St. Paul, Minn.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Bath)

American Brass Mfg. Co., 1525 E. 49th, Cleveland, O.
Burlington Brass Works (Fuller), Burlington, Wis.
Climax Specialty Co. (Compression Double Bath), Seneca Falls, N. Y.
Eagle Brass Works, Detroit, Mich.
Elgin Brass Co., Cleveland, O.
McCambridge & Co., 315 N 20th, Phila., Pa.
Mott, J. L. Iron Works, 118 5th av. New York.
Register Co. (Double), Westminster, Md.
Sanitary Co., Cleveland, O.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

*Cocks (Bibb Nose)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Cocks (Blow-Off)

Best Mfg. Co., 25th and A. V. Ry., Pittsburg, Chicago Pneumatic Tool Co. ("Little Giant" Pneumatic, for Locomotive Boilers), Fisher bldg. Chicago, Ill.
Crane Co. (Est. 1885), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

CROSBY STEAM GAGE & VALVE CO. ("Johnston"), 95 Oliver, Boston, Mass. (See adv. index, end of book)

Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa., & 32 B'way, New York

SIMMONS, JOHN CO. ("Rothchild"), 104-110 Centre, New York. (See adv. index, end of book)

Standard Steam Specialty Co. (Utility), 542 W B'way, New York

Cocks (Corporation)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
Anderson Coupling Co. ("Anderson"), Portland, Conn.

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Campbell, J. B. Brass Works, Erie, Pa.
Chambers & Ainslee, 2 Commerce, Newark, N. J.

Cleveland Bronze & Brass Works, Cleveland, O.
Columbus Brass Co., Columbus, O.
Crane Co. (Est. 1885), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crescent Mfg. Co., Connellsville, Pa.
Darling Pump & Mfg. Co., Williamsport, Pa.
Dart, E. M. Mfg. Co., Providence, R. I.

Eastwood Wire Mfg. Co., Belleville, N. J.
Elkhart Brass Mfg. Co. (Stop), Elkhart, Ind.
Everhart Brass Works, Scranton, Pa.

Farnam Brass Works, Cleveland, O.
Glaubner Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1136 Ridge av, Phila., Pa.

Hamilton, Jno., Bridgeport, Conn.
Hamlin & Emery Brass Co., 26 Island, Boston, Mass.
Haydenville Co., Haydenville, Mass.

Hays Mfg. Co., Erie, Pa.
Hoffman, B. Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.

Humphreys Mfg. Co., Mansfield, O.
Jarecki Mfg. Co., Erie, Pa.
Kelly & Jones Co., 137 Water, Pittsburg, Pa.

Klusey & Mahler Co., Peoria, Ill.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McDonald, A. Y. & Morrison Mfg. Co., Dubuque, Iowa
McNab & Harlin Mfg. Co., 56 John, New York

McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Meyer-Sniffen Co., 11 W 36th, New York
Michigan Brass & Iron Works, Detroit, Mich.
Mueller, H. Mfg. Co., Decatur, Ill.

Mullaney's, Jas. Sons, 141 E 25th, New York
Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.

National Mfg. & Supply Co. ("National"), Minneapolis, Minn.
Nichol, Thos. J. & Co., Cincinnati, O.

Nolte Brass Co., Springfield, O.
Ohio Pump & Brass Co., Columbus, O.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Peck Bros. & Co., New Haven, Conn.
Plouner Brass Works, Indianapolis, Ind.

Powell, Wm. Co., 2531 Spring Grove av, Cincinnati, O.
Register Co., Westminster, Md.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
San Antonio Machine & Supply Co., San Antonio, Texas

Schutte & Korting Co., N 12th & Thompson, Philadelphia, Pa.
Smith, A. P. Mfg. Co. (Also Curb), Newark, N. J.

Spence Mfg. Co., S Milwaukee, Wis.
Standard Brass Works, Detroit, Mich.
Standard Sanitary Mfg. Co., Pittsburg, Pa.

Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co. ("S. & K."), 45 Fulton, Chicago, Ill.

Thomas Brass & Iron Co., Waukegan, Ill.
UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

United Brass Mfg. Co., Cleveland, O.
Victor Excelsior Brass Works, 129 White, New York

Victor Supply Co. ("Abbott"), Springfield, O.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Curb)

Anderson Coupling Co. ("Anderson"), Portland, Conn.
Mueller, H., Mfg. Co., Decatur, Ill.

National Mfg. & Supply Co. ("National" Inverted Key), Minneapolis, Minn.
Nolte Brass Co., Springfield, O.

Rockford Brass Works, Rockford, Ill.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Cylinder)

Danville F'dry & Mach. Co. ("Hammer's" Automatic), Danville, Ill.
Edna Smelting & Refining Co. (Locomotive Cylinder), Cincinnati, O.

Hancock Inspirator Co. (Pneumatic), 85 Liberty, New York
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Roberts Brass Mfg. Co., Detroit, Mich.
Schaeffer & Budenberg Mfg. Co. (Traction Engine, etc.), 963 Kent av., Brooklyn, N. Y.

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

*Cocks (Filter Press)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Four-Way)

Schaeffer & Budenberg Mfg. Co. (Nickel Plated), 963 Kent av., Brooklyn, N. Y.

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Gas Engine)

Haydenville Co., Haydenville, Mass.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Gas Meter)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
American Meter Co., 561 W 47th, New York

Campbell, J. B. Brass Works, Erie, Pa.
Crane Valve Co., Bridgeport, Conn.

Eagle Brass Works (For Standard & Union Meter), Detroit, Mich.
Elkhart Brass Mfg. Co., Elkhart, Ind.

McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Mueller, H. Mfg. Co., Decatur, Ill.

National Mfg. & Supply Co. ("National"), Minneapolis, Minn.

National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.

Pioneer Brass Works, Indianapolis, Ind.
Rockford Brass Works (Lock Wing Union), Rockford, Ill.

Stebbins, E., Mfg. Co., Springfield, Mass.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Gas Service)

American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.

American Meter Co., 561 W 47th, New York
American Safety Lamp & Mine Supply Co., Scranton, Pa.

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Boston Steam Specialty Co., 170 Congress, Boston, Mass.

Buckeye Iron & Brass Works, Dayton, O.
Campbell, J. B. Brass Works, Erie, Pa.

Chambers & Ainslee, 2 Commerce, Newark, N. J.
Clarke, Robt., 98 Schermerhorn, Brooklyn, N.Y.

Cleveland Bronze & Brass Works, Cleveland, O.
Columbus Brass Co. ("Acorn"), Columbus, O.

Connoily, P., 1154 Atlantic av., Brooklyn, N. Y.
Crane Co. (Est. 1885), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co., Bridgeport, Conn.
Dart, E. M. Mfg. Co., Providence, R. I.

Detroit Brass Works, Detroit, Mich.
Eagle Brass Works, Detroit, Mich.

Edwardsville Brass Co., Edwardsville, Ill.
Elkhart Brass Mfg. Co., Elkhart, Ind.

Everhart Brass Works, Scranton, Pa.
Exeter Brass Works, Exeter, N. H.

Farnam Brass Works, Cleveland, O.
Glaubner Brass Mfg. Co., Cleveland, O.

Haines, Jones & Cadbury Co., 1136 Ridge av, Philadelphia, Pa.

Hamlin & Emery Brass Co., 26 Island, Boston, Mass., & 150 Hays Mfg. Co., Erie, Pa.

Healey, Peter, Evansville, Ind.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.

Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Jarecki Mfg. Co., Erie, Pa.

Klusey & Mahler Co., Peoria, Ill.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McCambridge & Co., Philadelphia, Pa.
McDonald, A. Y. & Morrison Mfg. Co., Dubuque, Ia.

McNab & Harlin Mfg. Co., 56 John, New York
McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Meyer-Sniffen Co., 11 W 36th, New York
Michigan Brass & Iron Co., Detroit, Mich.

Mueller, H. Mfg. Co., Decatur, Ill.
Mullaney's, Jas. Sons, 141 E 25th, New York

National Mfg. & Supply Co. ("National" Lock), Minneapolis, Minn.
National Supply Co., Toledo, O.

National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.

Naugatuck Malleable Iron Co., Naugatuck, Conn.

Nelson, N. O. Mfg. Co., St. Louis, Mo.
Nichol, Thos. J. & Co., Cincinnati, O.

Nolte Brass Co., Springfield, O.
Ohio Pump & Brass Co., Columbus, O.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Peck Bros. & Co., 125 Chestnut, New Haven, Conn.

Perkes, Chas. 627 Arch, Philadelphia, Pa.
Pioneer Brass Works, Indianapolis, Ind.

Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
Queen City Brass & Iron Works, Spring Grove & Garrard avs. Cincinnati, O.

Register Co., Westminster, Md.
Rockford Brass Works, Rockford, Ill.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Smith, A. P. Mfg. Co., Newark, N. J.

Walworth Mfg. Co., 132 Federal, Boston.
Weir & Cralg Mfg. Co., 2439 Wallace, Chicago, Ill.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of book)

Cocks (Gas Stove)

McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

Roberts Brass Mfg. Co., Detroit, Mich.
Rockford Brass Works, Rockford, Ill.
Stebbins, E., Mfg. Co., Springfield, Mass.
WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of book)

Cocks (Gauge)

American Steam Gauge & Valve Mfg. Co., 212 Camden, Boston, Mass.
Ashcroft Mfg. Co. (Locomotive, etc.), 85 Liberty, New York.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Belfield, H. & Co., 435 Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Bordo, L. J. (Inc.) ("Bordo"), 12th & Thompson, Phila., Pa.

Buckeye Iron & Brass Works, Dayton, O.
Cadman, A. W. Mfg. Co. (High Pressure, etc.), 2814 Smallman, Pittsburg, Pa.

Canton Brass Co., Canton, O.
Chaplin-Fulton Mfg. Co. ("Bingham's" Self Grinding), 30 Penn av., Pittsburg, Pa.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Detroit Brass Wks., Detroit, Mich.
Eastwood Wire Mfg. Co. (Iron Ball, etc.), Belleville, N. J.

Edna Smelting & Refining Co. (Steam, with Union), 525 Reading rd., Cincinnati, O.
Erie Mfg. & Supply Co. ("The Cube"), Erie, Pa.
Overhart Brass Works (Improved Ball), Scranton, Pa.
Farnan Brass Works, Cleveland, O.
Fewless-Lean Brass & Iron Co., Cincinnati, O.
Fleming, G. W., Co. (Locomotive), Bradford, Pa.

Hamlin & Emery Brass Co., 26 Island, Boston.
Haydenville Co., Haydenville, Mass.
Hills McCanna Co. (High Pressure), 128 E Kinzie, Chicago, Ill.

Huyette, Paul B. Co. ("P. B. H." Quick Opening, Self-Closing Weighted), Betz bldg., Phila., Pa.

Jarecki Mfg. Co. (Pet), Erie, Pa. & Pittsburg.
Jenkins Bros., 71 John, New York.
Jerguson Mfg. Co. ("Wiltbonco"), 221 Columbus av., Boston, Mass.

Kelly & Jones Co., Pittsburg, Pa.
Kinsey & Mahler Co., Peoria, Ill.

Loneragan, J. E. & Co. (Locomotive, Compression, Weighted, etc.), 211 Race, Phila., Pa.
LUNKENHEIMER CO. ("Excelsior"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McNab & Harlin Mfg. Co., 56 John, New York.
McRAE & ROBERTS CO. ("Victor," "Acme," "Little Giant" & "Mississippi" Gauge Ball), 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

Marsh, Jas. P. & Co., Chicago, Ill.
Michigan Lubricator Co. ("Michigan" Compression Chain Lever, etc.), Detroit, Mich.

Murray Automatic Boiler Feed Co., 892 Scotten av., Detroit, Mich.

NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y. (See adv. index, end of book)

National Tube Co., Pittsburg, Pa.
Nolte Brass Co., Springfield, O.

Ohio Brass Co. ("Collin"), Mansfield, O.
Peck Bros. & Co., New Haven, Conn.

Perkes, Chas., 627 Arch, Philadelphia, Pa.
PITTSBURGH GAGE & SUPPLY CO., ("Pittsburgh" Rotating), 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)

Pittsburg Valve & Fittings Co., Pittsburg, Pa.
Powell, Wm. Co., 2529 Spring Grove av., Cincinnati, Ohio

Pratt & Cady Co., Hartford, Conn.
Queen City Brass & Iron Works, Cincinnati, O.
Reliance Gauge Column Co. ("Reliance" Lever Chain), Cleveland, O.

Roberts Brass Mfg. Co., Detroit, Mich.
Rundel-Spence Mfg. Co., Milwaukee, Wis.

Schaeffer & Budenberg Mfg. Co. (Compression), 963 Kent av., Brooklyn, N. Y.
Sherwood Mfg. Co., Buffalo, N. Y.
Springfield Brass Co., Springfield, O.

Standard Brass Wks., Detroit, Mich.
Star Brass Mfg. Co. ("Hoyt's"), Boston, Mass.
Sterling & Skinner Mfg. Co., Detroit, Mich.
Swift Lubricator Co., Elmira, N. Y.
Thomas Brass & Iron Co., Waukegan, Ill.
Valle & Kimes ("V. & K." "Actna"), Dayton, O.

Walworth Mfg. Co., 128 Federal, Boston, Mass.
Williams Gauge Co. (Williams Rotating & Regrinding), 545 4th av., Pittsburg, Pa.

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)
Wright Mfg. Co., Detroit, Mich.

Cocks (Hose)

McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

Standard Brass & Iron Works (For Brewers, etc.), Milwaukee, Wis.

Cocks (Hydrant)

National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.

*Cocks (Hydraulic)

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Indicator)

American Lubricator Co. (Three-Way for Engine Cylinders), Detroit, Mich.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Michigan Lubricator Co. ("Michigan" Three-Way), Detroit, Mich.

Loneragan, J. E. & Co. (Three-Way), 211 Race, Phila., Pa.

Sherwood Mfg. Co. (Three-Way), Buffalo, N. Y.
Star Brass Mfg. Co. (Three-Way), 103 E Dedham, Boston, Mass.

*Cocks (Liquor)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Locomotive Cylinder)

(See Cocks, Cylinder)

*Cocks (Oil)

(See Cocks, Liquor)

Cocks (Plug)

Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.

Golden-Anderson Valve Specialty Co. ("Anderson" Balanced), Fulton bldg., Pittsburg, Pa.

Judson Governor Co. (Asbestos Packed, Iron, Brass or Aluminum), Rochester, N. Y.

LUNKENHEIMER CO. (Packed), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McMANN & TAYLOR CO., 104 John, New York. (See adv. index, end of book)

Watson, Frye & Co. (Acid Proof), Bath, Me.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

*Cocks (Priming Cup)

McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

Cocks (Refrigerator)

Landers, Frary & Clark, New Britain, Conn.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

*Cocks (Relief)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks (Ship)

Bishop, Wm. Sons, 205 South, New York
Sands, Alfred B. & Son, 20 Vesey, New York
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

*Cocks (Spring Key)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Cocks (Steam)

Belknap Mfg. Co., Bridgeport, Conn.
Bordo Co., L. J., Philadelphia, Pa.
Buckeye Iron & Brass Wks., Dayton, O.
Campbell, J. B. Brass Works, Erie, Pa.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co., Bridgeport, Conn.
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Dart Mfg. Co., E. M., Providence, R. I.
Detroit Brass Works (Also Service), Detroit, Mich.

Eagle Brass Works, Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Hamlin & Emery Brass Co., 26 Island, Boston, Mass.

Haines, Jones, & Cadbury Co., Philadelphia, Pa.
Haydenville Co., Haydenville, Mass.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.

Jarecki Mfg. Co., Erie, & Pittsburg, Pa.
Lamp & Miller Mfg. Co., Milwaukee, Wis.

Loneragan & Co., J. E., Philadelphia, Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McCambridge & Co., 315 N 20th, Phila., Pa.
McNab & Harlin Mfg. Co. (Brass & Iron), 56 John, New York

McGowan, John H. Co., Cincinnati, O.
McMANN & TAYLOR CO., 104 John, New York. (See adv. index, end of book)

McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)

National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.

Nichol & Co., Thos. J., Cincinnati, O.
Nolte Brass Co., Springfield, O.

Ohio Pump & Brass Co., Columbus, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
Perkes, Charles, Philadelphia, Pa.

Pittsburg Brass Mfg. Co., Pittsburg, Pa.
Powell, Wm. Co., 2529 Spring Grove av., Cincinnati, O.

Register Co., Westminster, Md.
Standard Brass Works, Detroit, Mich.

Thomas Brass & Iron Co., Waukegan, Ill.
Weir & Cralg Mfg. Co., 2439 Wallace, Chicago, Ill.

Cocks (Stop & Waste)

Acme Brass Works, Cleveland, O.
American Brass Mfg. Co., 1525 E. 49th, Cleveland, O.

American Foundry & Mfg. Co., 11th & Herbert, St. Louis, Mo.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

Asbell, S. J. Co., Paterson, N. J.
Bailey-Farrell Mfg. Co., 3d av & Ross, Pittsburg, Pa.

Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.

Boston Steam Specialty Co., 170 Congress, Boston, Mass.

Buckeye Iron & Brass Works, Dayton, O.
CALDWELL, W. E. CO., Brook & D, Louisville, Ky. (See adv. index, end of book)

Campbell, J. B. Brass Works (Compression), Erie, Pa.

Central Brass Mfg. Co., Cleveland, O.
Central Brass Works ("Standard"), Kansas City, Mo.

Chambers & Alnslee, Newark, N. J.
Cleveland Bronze & Brass Works (Anti-Freezing), Cleveland, O.

Columbus Brass Co., Columbus, O.
Connolly, P., 1154 Atlantic av., Brooklyn

Cooper, Wm. S. Brass Works ("Clipper"), 437 N 12th, Phila., Pa.
Crampton-Farley Brass Co., Kansas City, Mo.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Dart, E. M. Mfg. Co., Providence, R. I.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Detroit Brass Works, Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eagle Brass Works, Detroit, Mich.
Edwardsville Brass Co., Edwardsville, Ill.
Exeter Brass Works, Exeter, N. H.
Farnan Brass Works, Cleveland, O.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1136 Ridge av., Phila., Pa.

Hamilton, Jno., Bridgeport, Conn.
Hamlin & Emery Brass Co. ("Newport" & "Fitchburg"), 26 Island, Boston Mass.
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.
Healey, Peter, Evansville, Ind.
Hercules Iron & Supply Co., Commercial & Hanover, Boston, Mass.

Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Humphries Mfg. Co., Mansfield, O.
Jarecki Mfg. Co., Erie, Pa.

Jost's, Edmund Sons, 352 Plane, Newark, N. J.
Kelly, Thos. & Bros. ("Kelly"), Congress & 46th av., Chicago, Ill.
Kelly & Jones Co. ("Universal"), 135 Water, Pittsburgh, Pa.

Kinsey & Mahler Co., Peoria, Ill.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark ("Simplex"), New Britain, Conn.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McCambridge & Co., 315 N 20th, Phila., Pa.
McDonald, A. Y. & Morrison Mfg. Co., Du-

buque, Ia.
McNab & Harlin Mfg. Co., 56 John, New York
McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

Meyer-Sniffen Co., 11 W 36th, New York
Milwaukee Brass Mfg. Co. (Fuller & Compression), 241 Lapham, Milwaukee, Wis.
Mott, J. L. Iron Works, 118 5th av., New York
Mueller, H. Mfg. Co., Decatur, Ill.
Mullaney's, Jas. Sons, 141 E 25th, New York
Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.

National Mfg. & Supply Co. ("National," "New Star"), Minneapolis, Minn.

National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.
Naugatuck Malleable Iron Co., Naugatuck, Conn.

Nichol, Thos. J. & Co., Pearl & Ludlow, Cincinnati, O.
Nolte Brass Co., Springfield, O.
Ohio Brass & Iron Mfg. Co., Cleveland, O.
Ohio Pump & Brass Co., Columbus, O.
Park & McKay Co., Detroit, Mich.

Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
Perkes, Chas., 627 Arch, Phila., Pa.
Pioneer Brass Works, Indianapolis, Ind.

Powell, Wm. Co., 2525 Spring Grove av., Cincinnati, O.

Powhatan Brass & Iron Works, Charlestown, Va.
Pratt & Cady Co., Hartford, Conn.

Queen City Brass & Iron Works, Spring Grove & Garrard avs., Cincinnati, O.

Reger Co., Westminster, Md.

Richter & Co., 210 E 9th, Cincinnati, O.

Reynolds, M. Plumbers' Supply Co., 25 Centre, New York

Rundle-Spence Mfg. Co., Milwaukee, Wis.

Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

Sanitary Co., Cleveland, O.

Savill, Thos. & Sons, 11th & Wood, Phila., Pa.

Scully, W. J., Ventilator & Mfg. Co., Detroit, Mich.

Spence Mfg. Co., South Milwaukee, Wis.

Standard Brass & Iron Works (Straightway Stop Cocks, etc.), Milwaukee, Wis.

Standard Sanitary Mfg. Co., Bessemer bldg., Pittsburgh, Pa.

Stebbins, E. Mfg. Co., Springfield, Mass.

Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.

Syracuse Faucet & Valve Co. (No Packing), Syracuse, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.

Trenton Brass & Machine Co., Trenton, N. J.

Uco Brass Mfg. Co. (Inc.) ("Uco"), 2436 Brown, Philadelphia, Pa.

Union Brass & Metal Mfg. Co., St. Paul, Minn.

United Brass Mfg. Co., Cleveland, O.

Walworth Mfg. Co., Boston, Mass.

Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.

Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
Wolverine Brass Works, Grand Rapids, Mich.
Zero Valve & Brass Mfg. Co., 296 Seneca, Buffalo, N. Y.

Cocks (Three-Way)

National Tube Co. (Brass, Iron, Iron with "Kewanee" Union), Pittsburg, Pa.
Standard Brass & Iron Works (Male or Female Connections), Milwaukee, Wis.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

*Cocks (Throttle)

LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

*Cocks (Traction Engine)

McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

*Cocks (Tuyere)

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Cocks & Bibbs (Compression)

Ahrens & Ott Mfg. Co., Louisville, Ky.
American Foundry & Mfg. Co., 11th & Herbert, St. Louis, Mo.
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Barrett, Jas. Mfg. Co., 48 Pearl, Boston, Mass.
Bashlin Co., Warren, Pa.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Brookside Brass Foundry & Mfg. Co., Cleveland, O.

Burlington Brass Works, Burlington, Wis.
Campbell, J. B. Brass Works, Erie, Pa.
Central Brass Mfg. Co., Cleveland, O.
Chambers & Ainslee, 2 Commerce, Newark, N. J.
Clark Novelty Co., Rochester, N. Y.
Cleveland Bronze & Brass Works, Cleveland, Ohio
Clow, Jas. B. & Sons, Chicago, Ill.
Columbus Brass Co., Columbus, O.
Connolly Supply Co., 1071 Atlantic av., Brooklyn, N. Y.

Cooper, W. S. Brass Works ("Clipper"), Phila., Pa.

Cox Brass Mfg. Co. (Ltd.), Albany, N. Y.
Crampton-Farley Brass Co., Kansas City, Mo.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Dalton-Ingersoll Co., 169 High, Boston, Mass.
D'Este, Julian Co., 24 Canal, Boston, Mass.

Detroit Lubricator Co., Detroit, Mich.
Du Bois, Fred'k N., 247 9th av., New York

Eagle Brass Works, Detroit, Mich.
Edwardsville Brass Co., Edwardsville, Ill.

Empire Brass Mfg. Co., Cleveland, O.
Exeter Brass Works, Exeter, N. H.

Farnan Brass Works, Cleveland, O.
Federal-Huber Co., 244 5th av., New York

Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1137 Ridge av., Philadelphia, Pa.

Hamilton, Jno., Bridgeport, Conn.
Haydenville Co., Haydenville, Mass.

Hays Mfg. Co., Erie, Pa.
Healey, Peter, Evansville, Ind.

Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.

Homer Brass Works (Inc.), 231 Race, Phila., Pa.
Humphries Mfg. Co., Mansfield, O.

Kelly & Jones Co., 137 Water, Pittsburgh, Pa.
Lamp & Miller Mfg. Co., Milwaukee, Wis.

Landers, Frary & Clark, New Britain, Conn.
McCambridge & Co., 315 N 20th, Phila., Pa.

McDonald, A. Y. & Morrison Mfg. Co., Du-

buque, Ia.
McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)

McNab & Harlin Mfg. Co., 56 John, New York
McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

Mayor, Lane & Co., 128 White, New York
Meyer-Sniffen Co., 11 W 36th, New York

Miller Foundry & Specialty Co. (With Removable Seats), North Tonawanda, N. Y.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Mowry & Phillips ("Zane's"), 220 Congress, Boston, Mass.

Mueller, H. Mfg. Co., Decatur, Ill.
Mullaney's, Jas. Sons, 141 E 25th, New York
Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.

National Mfg. & Supply Co. ("National" High Lift Compression Sill Cocks), Minneapolis, Minn.

Naugatuck Malleable Iron Co., Naugatuck, Conn.

Nelson, N. O. Mfg. Co., 8th & St. Charles, St. Louis, Mo.

Nichol, Thos. J. & Co., Pearl & Ludlow, Cincinnati, O.
Nolte Brass Co., Springfield, O.

Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
Perkes, Chas., 627 Arch, Phila., Pa.

Register Co., Westminster, Md.
Roberts Brass Mfg. Co., Detroit, Mich.

Rome Brass & Copper Co., Rome, N. Y.
Roylance, J. Brass Works, 114 Main, San Francisco, Cal.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

Sanitary Co., Cleveland, O.
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.

Scully, W. J. Ventilator & Mfg. Co., Detroit, Mich.

Speakman Supply & Pipe Co., Wilmington, Del.
Spence Mfg. Co., 3 Milwaukee, Wis.

Stebbins, E. Mfg. Co., Springfield, Mass.
Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.

Thomas Brass & Iron Co., Waukegan, Ill.
Trenton Brass & Machine Co., Trenton, N. J.

Union Brass & Metal Mfg. Co., St. Paul, Minn.
United Brass Mfg. Co., Cleveland, O.

Walworth Mfg. Co., Boston, Mass.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.

Weiskittel, A. & Son, Aliceanna & Washington, Baltimore, Md.

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
Woodworth, A. M. & Son, Pittsburg, Pa.

Cocks & Bibbs (Fuller Work)

Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Bay State Brass Co., Haydenville, Mass.
Burlington Brass Works, Burlington, Wis.
Central Brass Mfg. Co., Cleveland, O.
Chambers & Ainslee, Newark, N. J.
Chicago Faucet Co., 200 S Clinton, Chicago, Ill.
Cleveland Bronze & Brass Works, Cleveland, Ohio

Clow, Jas. B. & Sons, 314 Franklin, Chicago, Ill.
Columbus Brass Co., Columbus, O.

Crampton-Farley Brass Co., Kansas City, Mo.
Dalton-Ingersoll Co., Boston, Mass.

Dearborn Brass Co., Cedar Rapids, Ia.
Eagle Brass Works ("Hammerless"), Detroit, Mich.

Edwardsville Brass Co., Edwardsville, Ill.
Empire Brass Mfg. Co., Cleveland, O.

Exeter Brass Works, Exeter, N. H.
Federal-Huber Co., 244 5th av., New York

Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury Co., 1137 Ridge av., Phila., Pa.

Haydenville Co., Haydenville, Mass.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.

Humphries Mfg. Co., Mansfield, O.
Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.

Lamp & Miller Mfg. Co., Milwaukee, Wis.
Landers, Frary & Clark, New Britain, Conn.

McDonald, A. Y. & Morrison Mfg. Co., Du-

buque, Ind.
Meyer-Sniffen Co., 11 W 36th, New York

Michigan Brass & Iron Works, Detroit, Mich.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.

Milwaukee Valve Co., Milwaukee, Wis.
Mueller, H. Mfg. Co., Decatur, Ill.

Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.

National Mfg. & Supply Co., Minneapolis, Minn.

Naugatuck Malleable Iron Co., Naugatuck, Conn.

Nelson, N. O. Mfg. Co., St. Louis, Mo.

Peck Bros. & Co., New Haven, Conn.
Powhatan Brass & Iron Works, Charlestown, W. Va.

Rome Brass & Copper Co., Rome, N. Y.
Roylance, J. Brass Works, 114 Main, San Francisco, Cal.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

Sanitary Co., Cleveland, O.
Scully, W. J. Ventilator & Mfg. Co., Detroit, Mich.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.

Stebbins, E. Mfg. Co., Springfield, Mass.

Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Union Brass & Metal Mfg. Co., St. Paul, Minn.
 United Brass Mfg. Co., Cleveland, O.
 Welr & Cralg Mfg. Co., 2439 Wallace, Chicago, Ill.
 Weiskittel, A. & Son, Baltimore, Md.
 Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Cocks & Bibbs (Ground Key)

Asbell, S. J. Co., Paterson, N. J.
 Buckeye Iron & Brass Works, Dayton, O.
 Campbell, J. B. Brass Works, Erie, Pa.
 Central Brass Mfg. Co., Cleveland, O.
 Chambers & Ainslee, Newark, N. J.
 Cleveland Bronze & Brass Works, Cleveland, Ohio
 Columbus Brass Co., Columbus, O.
 Dart, E. M. Mfg. Co. (Cocks Only, Gas, Water & Steam Self-Lubricating), Providence, R. I.
 Exeter Brass Works, Exeter, N. H.
 Farnam Brass Works, Cleveland, O.
 Federal-Huber Co., 244 5th av., New York
 Fisher, E. W. Co., Cleveland, O.
 Glauber Brass Mfg. Co., Cleveland, O.
 Haines, Jones & Cadbury Co., 1136 Ridge av., Phila., Pa.
 Hart & Cooley Co., New Britain, Conn.
 Haydenville Co., Haydenville, Mass.
 Hays Mfg. Co., Erie, Pa.
 Healey, P., Evansville, Ind.
 Hermance Mfg. Co., Syracuse, N. Y.
 Hoffmau, B. Mfg. Co., 257 6th, Milwaukee, Wis.
 Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
 Homer Brass Works (Inc.), 231 Race, Phila., Pa.
 Humphries Mfg. Co., Mansfield, O.
 Jost's, Edmund Sons, 352 Plane, Newark, N. J.
 Kelly & Jones Co., 135 Water, Pittsburg, Pa.
 Keystone Brass Co., Erie, Pa.
 Kinsey & Mahler Co., Peoria, Ill.
 Lamp & Miller Mfg. Co., Milwaukee, Wis.
 Landers, Frary & Clark, New Britain, Conn.
 McCambridge & Co., 315 N 20th, Phila., Pa.
 McDonald, A. Y. & Morrison Co., Dubuque, Ia.
McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)
 McNab & Harlin Mfg. Co., 56 John, New York
McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)
 Meyer-Sniffen Co., 11 W 36th, New York
 Mott, J. L. Iron Works, 118 5th av., New York
 Mueller, H. Mfg. Co., Decatur, Ill.
 Mullaney's, Jas. Sons, 141 E. 25th, New York
 Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.
 Naugatuck Malleable Iron Co., Naugatuck, Conn.
 New Britain Brass Co., New Britain, Conn.
 Nichol, Thomas J. & Co., Pearl & Ludlow, Cincinnati, O.
 Ohio Brass & Iron Mfg. Co., Franklin, Cleveland, Ohio
 Ohio Pump & Brass Works, Columbus, O.
 Peck Bros. & Co., New Haven, Conn.
 Pioneer Brass Works, Indianapolis, Ind.
 Powell, Wm. Co., 2525 Spring Grove av., Cincinnati, O.
 Powhatan Brass & Iron Works, Charlestown, W. Va.
 Queen City Brass & Iron Works, Spring Grove & Garrard avs., Cincinnati, O.
 Rundle-Spence Mfg. Co., Milwaukee, Wis.
 Russ, A. E. Mfg. Co., 6813 Wade Park av., N E, Cleveland, O.
 Sanitary Co., Cleveland, O.
 Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
 Scully, W. J., Ventilator & Mfg. Co., Detroit, Mich.
 Springfield Brass Co., Springfield, O.
 Standard Sanitary Mfg. Co., Pittsburg, Pa.
 Stebbins, E. Mfg. Co., Springfield, Mass.
 Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Trenton Brass & Machine Co., Trenton, N. J.
 United Brass Mfg. Co., Cleveland, O.
 United Metal Mfg. Co., 525 W 26th, New York
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.
 Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
 Welr & Cralg Mfg. Co., 2439 Wallace, Chicago, Ill.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Cocks & Bibbs (Self-Closing)

American Automatic Faucet Co., 114 State, Boston, Mass.
 Barclay, Peter & Co., 54 Devonshire, Boston, Mass.
 Bashlin Co., Warren, Pa.
 Brookside Brass Foundry & Mfg. Co., 21 Selzer av., Cleveland, O.
 Central Brass Works, Kansas City, Mo.
 Chambers & Ainslee, 2 Commerce, Newark, N. J.
 Chicago Faucet Co., 200 S Clinton, Chicago, Ill.
 Clark Novelty Co., Rochester, N. Y.
 Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
 Cooper, W. S. Brass Works, Philadelphia, Pa.
 Crampton-Farley Brass Co. ("Farley"), Kansas City, Mo.
 Dalton-Ingersoll Co., Boston, Mass.
 Dayton Mfg. Co., Dayton, O.
 Dearborn Brass Co., Cedar Rapids, Ia.
 Du Bois, Fred'k N., 247 9th av., New York
 Eagle Brass Works, Detroit, Mich.
 Empire Brass Mfg. Co., Cleveland, O.
 Exeter Brass Works, Exeter, N. H.
 Federal-Huber Co. ("Watrous," "Perry," "Cornell"), Halsted & Fulton, Chicago, Ill., & 244 5th av., New York
 Field Automatic Valve & Faucet Mfg. Co., Providence, R. I.
 Gilmour, J. Morrison, 164 W 120th, New York
 Glenn Valve Manufactory, 115 Fremont, Chicago, Ill.
 Glauber Brass Mfg. Co., Cleveland, O.
 Haines, Jones & Cadbury Co., 1137 Ridge av., Phila., Pa.
 Haydenville Co., Haydenville, Mass.
 Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.
 Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
 Kelly, Thos. & Bros., Congress & 46th av., Chicago, Ill.
 Lamp & Miller Mfg. Co., Milwaukee, Wis.
 Loeffelholz Co., Milwaukee, Wis.
 McCambridge & Co., 315 N 20th, Phila., Pa.
 McShane, Henry Mfg. Co., Baltimore, Md.
 Merrie, Hugh, 124 E 8th, Cincinnati, O.
 Meyer-Sniffen Co., 11 W 36th, New York
 Michigan Lubricator Co., Detroit, Mich.
 Milwaukee Brass Mfg. Co. ("Engel," "Peerless," "Telegraph," "Milwaukee, Wis.
 Milwaukee Valve Co., Milwaukee, Wis.
 Mowry & Phillips ("Zane's"), 220 Congress, Boston, Mass.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Mullaney's, Jas. Sons, 141 E 25th, New York
 Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.
 Naugatuck Malleable Iron Co., Naugatuck, Conn.
 Peck Bros. & Co. ("Moore's," "Dougherty," "Boston"), New Haven, Conn.
 Perkes, Chas., 627 Arch, Phila., Pa.
 Powhatan Brass & Iron Works, Charlestown, W. Va.
 Rundle-Spence Mfg. Co. ("Telegraph"), Milwaukee, Wis.
 Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.
 Sanitary Co. ("Doherty" Paragon), Cleveland, Ohio
 Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
 Seoville, E. U., Manlius, N. Y.
 Smith & Anthony Co. ("McHugh," "Cornell"), 48 Union, Boston, Mass.
 Standard Sanitary Mfg. Co., Pittsburg, Pa.
 Stebbins, E. Mfg. Co. ("Broughton"), Springfield, Mass.
 Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.
 Superior Mfg. Co., Cleveland, O.
 Syracuse Faucet & Valve Co. (No Packing), Syracuse, N. Y.
 Thomas Brass & Iron Co., Waukegan, Ill.
 United Metal Mfg. Co., 525 W 26th, New York
 Walsh, Richard & Sons, Detroit, Mich.
 Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
 Wolff, L. Mfg. Co., W Lake, Chicago, Ill.
 Young, E. R. & Sons, Titusville, Pa.

Coffee Roasters (Gas)

(See Peanut and Coffee Roasters; also Coffee, Peanut & Cocoa Bean Roasting Machines)

Coffee Urns

(See Cooking Apparatus)

*Cofferdams (Water-Tight)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Cogs (Wood)

Menasha Wood Split Pulley Co., Menasha, Wis.
 Nordyke & Marmon Co. (For Mortise Gears), Indianapolis, Ind.
 Thompson Mfg. Co., Lancaster, N. H.
 Woolbert, Chas. W., Elmer, N. J.

Coilers (Wire)

Baird Machine Co., Oakville, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Morgan Construction Co., Worcester, Mass.
 Turner, Vaughan & Taylor Co., Cuyahoga Falls, Ohio

Coiling Machines

(See Spring Coiling Machines)

Coils (Armature & Field)

American General Engineering Co. ("A-G-E"), 253 B'way, New York
 Belden Mfg. Co., 194 Michigan, Chicago, Ill.
 Chattanooga Armature Works (Frank Steffner, Propt.), Chattanooga, Tenn.
 Cleveland Armature Works, 4732 St. Clair av., N E, Cleveland, O.
 Columbia Machine Works & Malleable Iron Co., Atlantic av & Chestnut, Brooklyn, N. Y.
D & W FUSE CO., Providence, R. I. (See adv. index, end of book)
 Dittrick & Jordan Elec. Co., Cleveland, O.
 Doubleday-Hill Elec. Co., Pittsburg, Pa.
 Elliott, S. K. Electric Co., Cleveland, O.
 Elliott-Kibler Elec. Co., Cleveland, O.
 Electric Cable Co. ("Voltax"), Bridgeport, Conn.
 Electric Traction Supply Co., St. Louis, Mo.
 Ford-Oliver Electric & Mfg. Co., Compton av & Papin, St. Louis, Mo.
 Garton, W. R. Co. ("Heany"), 118 W Jackson boul, Chicago, Ill.
 Major, Marshall E. Co., Nanticoke, Pa.
 Marshall, R. W. & Co., 50 Church, New York
 Morris, Elmer P. Co., 90 West, New York
 Ridlon, Frank Co., Boston, Mass.
 Roebling's, Jno A. Sons Co., Trenton, N. J.
 Stuart-Howland Co., Boston, Mass.
VAN DORN ELECTRIC & MFG. CO., 2694 E. 79th, Cleveland, O. (See adv. index, end of book)
 Wesco Supply Co. ("Wesco"), St. Louis, Mo.
 Western Electric Co. ("Ruhmkorff"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Coils (Gas Lighting Spark)

Acme Wire Co., New Haven, Conn.
 American Electrical Works, Phillipsdale, R. I.
 Boston Electric Co., Boston, Mass.
 Dow Portable Electric Co., Braintree, Mass.
 Electric Goods Mfg. Co., Boston, Mass.
 Engeln & Co., Cleveland, O.
 Hercules Electric Co., Indianapolis, Ind.
 Holtzer-Cabot Elec. Co., Brookline, Mass.
 Manhattan Electrical Supply Co., 17 Park pl, National Coil Co., Lansing, Mich.
 Ostrander, W. R. & Co., 22 Dey, New York
 P-R Mfg. Co., Detroit, Mich.
 Providence Spark Coil Co., Providence, R. I.
 Splitdorf, C. F., 261 Walton av, New York

Coils (Induction)

Acme Wire Co., New Haven, Conn.
 American Electric Telephone Co., 64th & State, Chicago, Ill.
BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
 Carstarphen Elec. Co., Denver, Col.
 Electric Goods Mfg. Co., Boston, Mass.
 Electro Radiation Co. ("Kinralde"), Boston, Mass.
 Fischer Ignition Co., Cincinnati, O.
 International Telephone Mfg. Co., 111 W Harrison, Chicago, Ill.
 Kelley-Koett Mfg. Co., Covington, Ky.
 Kellogg Switchboard & Supply Co., Green & Congress, Chicago, Ill.
 Knoblock-Heideman Mfg. Co., South Bend, Ind.
 McIntosh Battery & Optical Co., 225 E Washington, Chicago, Ill.
 Manhattan Electrical Supply Co., 17 Park pl, New York
 Menominee Electric Mfg. Co., Menominee, Mich.
 Partrick, Carter & Wilkins Co., 22d & Wood, Phila., Pa.

Pearce, Fred'k Co., 20 Rose, New York
Philadelphia Elec. Construction Co., 914 Filbert, Phila., Pa.
QUEEN & CO. (Inc.), n. w. e 8th & Arch. Phila., Pa. (See adv. index, end of book)
Roentgen Mfg. Co. ("Jumbo"), 226 Ionic, Phila., Pa.
Schiedel-Western X-Ray Coil Co., 171 Rand, Chicago, Ill.
Splitdorf, C. F., 261 Walton, New York
Thordarson Elec. Mfg. Co., 153 S Jefferson, Chicago, Ill.
Vote-Berger Co., La Crosse, Wis.
Western Tel. Mfg. Co., 50 W Jackson boul, Chicago, Ill.
Wilhelm Telephone Mfg. Co., Buffalo, N. Y.
Williams, E. Q., Syracuse, N. Y.

Coils (Phosphor Bronze)

Riverside Metal Co., Riverside, N. J.

Coils (Pipe)

(See Pipe Bends & Colls)

Coils (Resistance)

American Electrical Works, Phillipsdale, R. I.
BUNNELL, J. H., & CO., Park pl. & Church, New York. (See adv. index, end of book)
Gurley, W. & L. E. ("Decade"), Troy, N. Y.
International Brass & Electric Co., 76 Beekman, New York
Kellogg Switchboard & Supply Co., Chicago, Ill.
Leeds & Northrup Co., 4901 Stenton av, Phila., Pa.
Partriek, Carter & Wilkins Co., 22d & Wood, Phila., Pa.
QUEEN & CO. (Inc.), n. w. e 8th & Arch, Phila., Pa. (See adv. index, end of book)
Roller-Smith Co., Bethlehem, Pa.
Wagner, R. V. Co., 140 Wabash av, Chicago, Ill.
Ward, Leonard Elec. Co., Bronxville, N. Y.
Western Tel. Mfg. Co., 50 W Jackson boul, Chicago, Ill.

Coils (Spark)

American Coil Co. ("Jump"), Foxboro, Mass.
American Electric Fuse Co. ("American," also Cartridge Coils for Jump Spark, etc.), Muskegon, Mich.
American Electrical Works, Phillipsdale, R. I.
American Machine Mfg. Co. ("Perfection"), South Braintree, Mass.
Autocoil Co. ("Jumplame," "Owners"), Jersey City, N. J.
Boston Electric Co., 29 Harrison av., Boston, Mass.
BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
Byrne-Kingston Co. ("Kingston"), Kokomo, Ind.
Capitol Electric Engineering Co. (Gas Engine Igniting), Lansing, Mich.
Champlon, Albert Co., Boston, Mass.
Chicago Coil Co. ("Cartridge," Iron Clad Igniter, for All Purposes), 36 Lasalle, Chicago, Ill.
Connecticut Telephone & Electric Co. (Inc.) ("Connecticut"), Meriden, Conn.
Dayton Electrical Mfg. Co. ("Apple"), Dayton, Ohio
Dow Portable Electric Co., Braintree, Mass.
Duplex Coil Co., Fond du Lac, Wis.
Edison Mfg. Co., Orange, N. J.
Eldridge Electrical Mfg. Co., Eldridge, N. Y.
Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
Electrical Appliance Co., Waterbury, Conn.
Engeln & Co. (Gas Lighting), Cleveland, O.
Fischer Ignition Co., Cincinnati, O.
Foote, Pierson & Co., 116 Duane, New York
Goodson Electric Ignition Co., Providence, R. I.
Gordon's Auto Supply Co. ("Eisner"), Boston, Mass.
Heinze Electric Co. (for Automobiles, X-Rays & Wireless Telegraphy), Lowell, Mass.
Herz & Co., 203 Lafayette, New York
Holtzer-Cabot Electric Co., Brookline, Mass.
Huff, E. S. Co., Detroit, Mich.
International Brass & Electric Co. (For X-Ray, Wireless Telegraphy, etc.), 76 Beekman, New York
International Telephone Mfg. Co., 111 W Harrison, Chicago, Ill.
Knoblock-Haideman Mfg. Co., South Bend, Ind.

Kokomo Electric Co. ("Kingston"), Kokomo, Ind.
Manhattan Electrical Supply Co., 17 Park pl, New York
Menominee Elec. Mfg. Co., Menominee, Mich.
MORRIS ELECTRIC CO., Wilmington, Del. (See adv. index, end of book)
Motor Car Supply Co., 1425 Michigan av, Chicago, Ill.
National Coil Co. ("Capitol"), Lansing, Mich.
New York Coil Co. ("Fire Ball," "Economic" & "Challenge"), 338 Pearl, New York
Noxon, C. Per Lee, Syracuse, N. Y.
Nungesser Electric Battery Co., Cleveland, O.
Ohio Electric Works, Cleveland, O.
P. R. Mfg. Co., Detroit, Mich.
Partriek, Carter & Wilkins Co., 22d & Wood, Phila., Pa.
Peerless Switch Co., Detroit, Mich.
Pfanzstiel Electrical Laboratory (Inc., "X-Ray"), North Chicago, Ill.
Pittsfield Spark Coil Co. ("Pittsfield"), Dalton, Mass.
Providence Spark Coil Co., Providence, R. I.
Remy Electric Co., Anderson, Ind.
Schug Electric Mfg. Co., Detroit, Mich.
Seldner-Miner Electric Co., Detroit, Mich.
Splitdorf, C. F., 261 Walton, New York
Thordarson Elec. Mfg. Co., 153 S Jefferson, Chicago, Ill.
Tritt Electric Co., Union City, Ind.
Western Electric Co. (Gas Engine & Automobile), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
Williams, E. Q., Syracuse, N. Y.
Witherbee Igniter Co. ("Wico"), 1876 B'way, New York

Coke Mfrs.

Alabama Consolidated Coal & Iron Co. (Foundry), Birmingham, Ala.
Algoma Coal & Coke Co., Algoma, W. Va.
Altoona Coal & Coke Co., Altoona, Pa.
Arlington Coal & Coke Co., Lynchburg, Va.
Atlantic Coal & Coke Co., Tunnelton, W. Va.
Battle Creek Coal & Coke Co., Orme, Tenn.
Beaver Coal & Coke Co., Wampum, Pa.
Beekley Coal & Coke Co., Macdonald, W. Va.
Bessemer Coal & Coke Co., Pittsburg, Pa.
Bessemer Coke Co., Lewis blk, Pittsburg, Pa.
Blair, Reed F. & Co. (Dealers), Frick bldg, Pittsburg, Pa.
Bottom Creek Coal & Coke Co., Vivian, W. Va.
Brown & Cochran, Conestoga bldg, Pittsburg, Pa.
Bryson Mountain Coal & Coke Co., Middlesboro, Ky.
Colorado Fuel & Iron Co., Denver, Colo.
Connellsville Central Coke Co., Empire bldg., Pittsburg, Pa.
Connellsville Mutual Coke Co., Scottsdale, Pa.
Consolidated Connellsville Coke Co., Uniontown, Pa.
Crozer Coal & Coke Co., Upland, Pa., & Elkhorn, W. Va.
Crystal Coal & Coke Co., Godfrey, W. Va.
Donahoe Coke Co., Greensburg, Pa.
Dunn Connellsville Coke Co., Adamsburg, Pa.
Durham Coal & Coke Co., Chattanooga, Tenn.
East Connellsville Coke Co., Pittsburg, Pa.
Elk Ridge Coal & Coke Co., Kyle, W. Va.
Fairmont Coal Co. (Foundry, Furnace & Crushed), Baltimore, Md., & 1 B'way, New York
Fieser & Bentley (Wholesale), The Wyandotte, Columbus, O.
Fire Creek Coal & Coke Co., Fire Creek, W. Va.
Fork Ridge Coal & Coke Co., Middlesboro, Ky.
Frick, H. C. Coke Co., Carnegie bldg, Pittsburg, Pa.
Gilliam Coal & Coke Co., Lynchburg, Va., & Gilliam, W. Va.
Goff, Horner & Co. (Ltd.) (Wholesale Dealers), Frick bldg., Pittsburg, Pa.
Grafton Coal & Coke Co., Grafton, W. Va.
Greenwich Coal & Coke Co., Latrobe, Pa.
Hanna, M. A. & Co., Perry Payne bldg, Cleveland, O.
Hickman, Williams & Co. (Dealers), Louisville, Ky.
Hillman, J. H. & Son, Frick bldg, Pittsburg, Pa.
Houston, C. B. & Co. (Dealers), Girard bldg, Phila., Pa.
Houston Coal & Coke Co., Elkhorn, W. Va.
Hostetter Connellsville Coke Co., Frick bldg, Pittsburg, Pa.
Hustead-Semans Coal & Coke Co., Uniontown, Pa.
Indian Ridge Coal & Coke Co., Connellsville, Pa.
Jamison Coal & Coke Co., Greensburg, Pa.
Keeley, Jerome & Co. (Dealers), Phila. Bank bldg, Phila., Pa.
Kelster, A. L. & Co. (also Coal), Scottsdale, Pa.
Keystone Coal & Coke Co., Greensburg, Pa.

Latrobe-Connellsville Coal & Coke Co. (Connellsville Coke), Latrobe, Pa.
Law, Ernest & Co. (Dealers), Harrison bldg, Phila., Pa.
Louisville Coal & Coke Co., Goodwill, W. Va.
Loyal Hanna Coal & Coke Co., Loyal Hanna, Pa.
Lynchburg Coal & Coke Co., Kyle, W. Va.
McKeefrey Coal Co., Leetonia, O.
McKeefrey & Co., Leetonia, O.
Maher Coal & Coke Co., Blairsville, Pa.
Marmet-Halm Coal & Coke Co., Traction bldg, Cincinnati, O.
Maryland Coal & Coke Co., Union Trust bldg, Baltimore, Md.
Mingo Coal & Coke Co., Middlesboro, Ky.
Mohr, J. J. & Son (Dealers), Bullitt bldg, Phila., Pa.
Monessen Coal & Coke Co., Frick bldg, Pittsburg, Pa.
Moore, Edgar & Co. (Mfrs. Agents), Farmers' Bank bldg, Pittsburg, Pa.
New England Gas & Coke Co., 146 Franklin, Boston, Mass.
New York & Phila. Coal & Coke Co., Produce Exchange, New York
Norton Coal Co., Norton, Va.
Oliver & Snyder Steel Co., S 10th & Muriel, Pittsburg, Pa.
Opekiska Coal & Coke Co., Connellsville, Pa.
Orient Coke Co., Uniontown, Pa.
Peerless Coal & Coke Co., Vivian, W. Va.
Penn Coke Co., Uniontown, Pa.
Pickands, Mather & Co., Western Reserve bldg., Cleveland, O.
Pickands, Brown & Co., Com. Nat'l Bank bldg, Chicago, Ill.
Pilling & Crane (Jobbers in Coal & Coke), Real Estate Trust bldg, Phila., Pa.
Pittsburg-Buffalo Co., Frick bldg, Pittsburg, Pa.
Pittsburg Coal Co., 232 5th av, Pittsburg, Pa.
Pocahontas Coke Co., Bramwell, W. Va.
Pocahontas Consolidated Collieries Co., Bramwell, W. Va.
Prospect Coal & Coke Co., Searights, Pa.
Raleigh Coal & Coke Co., Raleigh, W. Va.
Republic Iron & Steel Co., Frick bldg, annex, Pittsburg, Pa.
Rochester & Pittsburg Coal & Iron Co., Rochester, N. Y., & 1 B'way, New York
Rocks Coal & Coke Co., Connellsville, Pa.
Rogers-Brown & Co. (Dealers), Cincinnati, O.
Runyon, Fairbank & Co., Citizens' bldg., Cleveland, O.
Sackett Coke Co., Uniontown, Pa.
Sewanee Coal, Coke & Land Co., Clouse Hill, Tenn.
Shook & Fletcher (Dealers), Birmingham, Ala.
Sloss-Sheffield Steel & Iron Co., Birmingham, Ala.
Snyder, W. P., & Co. (Furnace & Foundry), Frick Bldg., Pittsburg, Pa.
Stauffer, J. R., Scottsdale, Pa.
Stewart Iron Co., Cleveland, O., & Sharon, Pa.
Steubenville Coal & Mining Co., Steubenville, Ohio
Sunshine Coal & Coke Co., Masontown, Pa.
Taylor Coal & Coke Co., Uniontown, Pa.

Hendricks' Commercial Register

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

Tennessee Coal, Iron & R. R. Co., Birmingham, Ala.
 Thacker Fuel Co., The, Union Trust bldg, Cincinnati, O.
 Tidewater Coal & Coke Co., Vivian, W. Va.
 Turkey Knob Coal & Coke Co., Macdonald, W. Va.
 Tygarts River Coal Co., Grafton, W. Va.
 Tyler, W. R. & Co. (Dealers), Land Title bldg, Phila., Pa.
 United Coke & Gas Co., 17 Battery pl, New York
 United Iron & Steel Co. (Foundry, etc.), Pittsburgh, Pa.
 U. S. Coal & Coke Co., Carnegie bldg, Pittsburgh, Pa.
 Upland Coal & Coke Co., Upland, Pa., & Elkhorn, W. Va.
 Virginia, Iron, Coal & Coke Co. (Furnace & Foundry), Roanoke, Va.
 Virginia & Pittsburgh Coal & Coke Co., Fairmont, W. Va.
 Washington Coal & Coke Co., Dawson, Pa., & Pittsburgh, Pa.

Coke (Metallurgical)

United Coke & Gas Co., 17 Battery pl., New York

Coke Oven Construction

American Coke & Gas Construction Co. (With or Without the Recovery of By-Products), Camden, N. J.
 Connellsville Mfg. & Mine Supply Co. (Inc.), Connellsville, Pa.
 Koppers, H., ("Kopper's" By Product Plants), Joliet, Ill.
 United Coke & Gas Co. ("United-Otto" By Product Plants), 17 Battery pl., New York
 Warwick Co., 827 S Union, Chicago, Ill.

*Coke (Petroleum)

INDIAN REFINING CO., Cincinnati, O. (See adv. index, end of book)

Coke Plant Construction

(See Coke Oven Construction)

*Cold Rolling (All Flat Metals)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Cold Storage Plant Construction

(See Ice & Refrigerating Machines)

Cold Storage Rooms

(See Refrigerators & Cooling Rooms)

*Cold Water Pipe Covering ("Wyckoff" Patent Waterproof Wood)

WYCKOFF, A. & SON CO., Elmira, N. Y. (See adv. index, end of book)

Collapsible Steel Centering

(See Centering, Steel)

Collars (Axle)

Graham Nut Co., Pittsburgh, Pa.

Collars (Dog)

Brauer Bros. Mfg. Co., St. Louis, Mo.
 Cassidy-Fairbank Mfg. Co. ("Erb"), 6106 La Salle, Chicago, Ill.
 Medford Fancy Goods Co. (Sterling Silver), 75 Duane, New York
 NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
 Scheffer & Rossum, St. Paul, Minn.
 Union Hardware Co., Torrington, Conn.

Collars (Shafting)

(See Shafting Collars)

Collars (Split)

Chain Belt Co., Milwaukee, Wis.
 Dodge Mfg. Co. (For Shafting), Mishawaka, Ind.
 Link Chain Co., Williamsport, Pa.
 PATTERSON, GOTTFRIED & HUNTER, (Ltd.), (The "Johnson" Safety), 211 Center, New York
 Salem Foundry & Machine Works, Salem, Va.
 Shaw Coupling Co. (Also Solid), Syracuse, N. Y.
 Yocom, Jas. & Son (For Shafting), 145 N 2d, Phila., Pa.

Collars (Steam Pipe)

Matthews Mfg. Co., Worcester, Mass.
 WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Collars (Thrust)

Dyson, Jos. & Sons (Forged), Cleveland, O.

Collets

Adjustable Collet Co. (Adjustable), Cleveland, Ohio
 Becker Milling Machine Co., Hyde Park, Mass.
 Browne & Sharpe Mfg. Co. (For Milling & Grinding Machines, etc.), Providence, R. I.
 McCrosky Reamer Co. ("Wizard"), Meadville, Pa.
 Modern Tool Co. ("Magic"), Erie, Pa.
 Owen Machine Tool Co., Springfield, O.
 WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
 Whitney Mfg. Co. ("Presto" & Friction Tap-plug), Hartford, Conn.
 Wiley & Russell Mfg. Co. ("Lightning" Dies & Collets for Machines), Greenfield, Mass.

Color Cards for Mixed Paints

(See Paint Manufacturers' Color Cards)

Color Mfrs. & Importers

(See also Clays, Minerals, Etc.)

Acme White Lead & Color Works, Detroit, Mich.
 Adler Color & Chemical Works, 100 William, N. Y., & 170 Tillary, Brooklyn, N. Y.
 Akron Mining, Milling & Mfg. Co. ("Robinson's"), Aurora, Ill.
 Alston Mfg. Co., Wade & Currier, Chicago, Ill.
 Ansbacher, A. B. & Co., 253 B'way, New York, & 310 N 7th, Brooklyn, N. Y.
 Atlas Co. (Miners & Refiners), Lincoln, N. J., & 82 Pearl, New York
 Augusta Sienna & Ochre Co., (Miners & Exporters), Augusta, Ga.
 Ault & Wiborg Co. (Dry Color Mfrs.), 7th & Culvert, Cincinnati, Ohio
 Billings-Chapin Co., 1163 E. 40th N. E., Cleveland, O.
 Billings, King & Co., 438 Pearl, New York, & 158 Congress, Boston, Mass.
 Binney & Smith Co., 81 Fulton, New York
 Briedbach, C. J. & Son, 395 Mott av, New York
 Briggs, John & Co., 47 Purchase, Boston, Mass.
 Cambria Paint & Color Co. (Ltd.) (Grinders of Paper & Pulp Colors, Colors in Oil, etc.), Johnstown, Pa.
 Cawley, Clark & Co. (Pulp & Dry Colors, Chrome Yellow, etc.), Newark, N. J.
 Continental Varnish & Color Co., 1315 W 8th Kansas City, Mo.
 Davidson, Jas. H. (Inc.), 239 Front, New York
 Detroit White Lead Works (Mfrs.), 532 Milwaukee av, E. Detroit, Mich.
 Devoe, F. W. & C. T. Raynolds Co., 101 Fulton, N. Y., & 176 Randolph, Chicago, Ill.
 DOGGETT, STANLEY (Dry), 101 Beekman, New York. (See adv. index, end of book)
 Eagle White Lead Co., 7020 B'way, Cincinnati, O.
 Essex Paint Works, Essex, Conn. nati, O.
 Falcs, W. H. & Co., 62 Malden Lane, New York
 Forest City Paint & Varnish Co., Cleveland, O.
 FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Gabriel & Schall (Importers of Tithopone Dry Colors, etc.), 205 Pearl, New York
 Hammill & Gillespie (Importers), 240 Front, New York
 Hanna & Andrus Mfg. Co. (Mfr., a Full Line), Chicago, Ill.

Harrison Bros. & Co., 35th & Grays Ferry rd, Phila., Pa.
 Helier & Mertz Co. (Aniline), 22 Cliff, New York

Hemingway & Co., 135 Front, New York
 Herrman, Morris & Co., 68 William, New York
 Huber, Jos. M., 275 Water, New York
 Illinois Mineral Milling Co., E. St. Louis, Ill.
 International Acheson Graphite Co. (Graphite Pigments), Niagara Falls, N. Y.
 Johnson, Chas. E. & Co., 509 S 10th, Phila., Pa.
 Kalle & Co. (Importers), 534 Canal, New York
 Keppelmann, Adolphus, 205 Fulton, New York
 Kohustamm, H. & Co., 87 Park pl, New York
 Kuttroff, Adolf (Importers), 128 Duane, New York
 Lavanburg, Fred'k L. (Importer), 100 William, New York
 Lewis, John T. & Bros. Co., 231 S Front, Phila., Pa.

Longman & Martinez, 207 Pearl, New York
 Lucas, John & Co., 4th & Race, Phila., Pa.
 McLennan Paint Co., Detroit, Mich.
 Macneal, Jas. B. & Co., Warner & Wooster, Baltimore, Md.
 Mephram, Geo. S. & Co. (Colors & Minerals), East St. Louis, Ill.
 Merrimac Chemical Co., Boston, Mass.
 Mertztown Mfg. Co. (Ochres, Umbers, Siennas, Metallic Brown, Reds, Slate, Flour, Mineral, Blacks, etc.), Works: Mertztown, Pa.
 Mound City Paint & Color Co., 813 N 6th, St. Louis, Mo.

NEVIN, T. H., CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
 Peninsular Paint & Color Works (Ltd.) (Dry), St. Aubin & Clay avs, Detroit, Mich.
 Pfeiffer, Isaac, 92 William, New York
 Prince Mfg. Co., 2 Cliff, New York
 Prince's Metallic Paint Co., Allentown, Pa.
 Schoellkopf, Hartford & Hanna Co. (Aniline), Buffalo, N. Y.

Sherwin-Williams Co., Cleveland, O.
 Sinclair & Valentine, 5 Marion, New York
 Stevens, Geo. I., Essex, Conn.
 Tiemann, D. F. & Co., 44 Duane, New York
 Toch Bros., 320 5th av, New York
 Valentine & Co., 257 B'way, New York
 Whittaker, W. H. (Importer & Dealer), 245 Front, New York
 Wilhelm, A. Co. (Dry, Pulp & in Oil), Reading, Pa.
 Williams, C. K. & Co. (Miners & Exporters), Easton, Pa.
 Wix, Chas. & Co., 133 Reade, New York
 Woodhouse, Sam'l F., Unity & Franklin, Phila., Pa.

Coloring (Incandescent Lamp)

Barrett, M. L. & Co., 219 Lake, Chicago, Ill.
 Brunner Chemical Works ("Queen"), Cincinnati, O.
 Celluloid Zapon Co., Stamford, Conn. nati, O.
 Crescent Co., Valparaiso, Ind.
 Egyptian Lacquer Mfg. Co., 152 Front, New York
 Pacific Electric Co. ("Inline," "Karsline"), La Cross, Wis.
 Signaloid Chemical Works, 129 W 38th, New York

Colors (Steel)

Adler Color & Chemical Works, 100 William, New York
 Atlas Mineral & Machine Co., Lincoln, N. J.
 DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Forest City Paint & Varnish Co., Cleveland, O.
 National Paint Works, 92 William, New York

Colors & Fillers (Paper Makers')

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Lucas, John & Co., 314 Race, Phila., Pa.
 Tiemann, D. F. & Co., 46 Duane, New York
 Williams, C. K. & Co., Easton, Pa.

Column Coverings

A. B. Fireproofing Co. (Inc.), Schiller bldg, Chicago, Ill. Mill & Factory: Chicago Heights, Ill.
 Detroit Fireproofing Tile Co. ("Gypsite"), 250 Beecher av, Detroit, Mich.
 Federal Clay Mfg. Co., B'way & 23d, New York
 Person, O. D., 160 5th av, New York
 Washington Iron Works, 419 Pratt, Buffalo, N. Y.

Columns (Cast Iron)

(See also Firms in Iron, Architectural & Ornamental Marked with a (*) Star)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
MACINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

SMITH, F. P., WIRE & IRON WORKS., 100 Lake, Chicago, Ill. (See adv. index, end of book)

SNEAD & CO. IRON WORKS, Jersey City, N. J. (See adv. index, end of book)
 Washington Iron Works, 419 Pratt, Buffalo, N. Y.

Columns (Cast Iron Pipe)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

*Columns (Concrete Reinforced)

SMITH, F. P. WIRE & IRON WORKS (Spiral), 100 Lake, Chicago, Ill. (See adv. index, end of book)

TRUSSED CONCRETE STEEL CO., Trussed Concrete bldg, Detroit, Mich. (See adv. index & branch offices, end of book)

Columns (Fire Proof)

Alpha Fireproof Column Co., 14th & Henderson, Jersey City, N. J.

American Column Co., 252 Huron, Brooklyn, N. Y.

New York Fireproof Column Co. ("Lally"), 253 B'way, New York

HERCULES

CONCRETE FILLED FIREPROOF COLUMNS



A
Substitute
For
Brick Piers

SIZES:

3" to 12 1-2" in
diameter

ANY LENGTH

PFAFF & KENDALL

Ferry and Foundry Sts.
NEWARK, N. J.

PFAFF & KENDALL ("Hercules" Fireproof), Ferry & Foundry, Newark, N. J. (See adv. index, end of book)

Columns, Porch, Etc. (Mfrs.)

American Column Co., Battle Creek, Mich.

Biggs, B. F. Pump Co., Lafayette, Ind.

Booth Column Co. (Wholesale Mfrs.), Toledo, Ohio

Bossert, Louis & Son (Wholesale Mfrs.), Grand St & Newtown Creek, Brooklyn, N. Y.

Buckeye Churn Co., Sidney, O.

Busb Bros., Royersford, Pa.

Butz, F. J. & Sons, South Bend, Wash.

Chicago Mill Work Supply Co., c 22d & Sangamon, Chicago, Ill.

Colonial Column Co., Detroit, Mich.

Colonial Column Mfg. Co. (Interlocked Lock Joint), 206 B'way, New York

Cream City Sash & Door Co. (For the Trade Only), Milwaukee, Wis.

Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Ia.

Curtis & Bartlett Co. (Wholesale Mfrs.), Lincoln, Neb.

Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.

Cypress Tank & Mfg. Co. (Wholesale Mfrs.), Patterson, La.

Davis, E. J. Mfg. Co., 9 Jackson boul, Chicago, Ill.

Del' Isle, S. G. (Mfrs. Agts.), Hibernia Bank bldg, New Orleans, La.

Detroit Column & Mfg. Co. (Lock Joint), Detroit, Mich.

Dickey, A. & Co. (Piazza, etc., Wholesale), 37 Bristol, Boston, Mass.

Disbrok, M. A. & Co. (Wholesale Mfrs.), Lyons, Ia.

Doane & Jones Lumber Co. (Perfect Joint), Elmira, N. Y.

Eby Mfg. Co., Detroit, Mich.

Falls City Lumber Co. (Of Fir Lumber), Portland, Ore.

Foster, Munger Co. (For the Trade Only), W 20th & Sangamon, Chicago, Ill.

Fuller & Rice Lumber & Mfg. Co., Grand Rapids, Mich.

Furber, Frank O., Saco, Me.

Gauger, Jno. A. & Co. (For the Trade Only), W 22d & Laffin, Chicago, Ill.

Greer-Wilkinson Lumber Co., Oakland, Ind.

Harris & Cole Bros. (Popular Bored), Cedar Falls, Ia., & Columbia, Tenn.

Hartmann-Sanders Co. ("Koll's" Lock Joint), 810 Elston av, Chicago, Ill., & 1125 B'way, New York

Hyde-Murphy Co., Ridgway, Pa.

Jeffersonville Mfg. Co., Jeffersonville, Ind.

Koll, A. J., Los Angeles, Cal.

Lawrence, Newhall, Page & Co. (Wholesale Mfrs.), Augusta, Me.

Leary, J. L., Casar, N. C.

L'Hote Lumber Mfg. Co., Carondelet walk & N Dupre, New Orleans, La.

Libell, Wm. C., 597 Austin av, Chicago, Ill.

McClelland, T. W. Co. (Wholesale Mfrs.), Davenport, Ia.

McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.

Malta Mfg. Co. Wholesale Mfrs.), Malta, O.

Mann, Watson & Co., Muskegon, Mich.

Morgan Co. (For the Trade Only), Oshkosh, Wis.

Nelson, C. T. Co. ("Columns, Balusters, Spindles, etc., for the Trade Only), Columbus, Ohio

New York Fire Proof Column Co. ("Lally," Damp & Fire Proof), 253 B'way, New York

Paine Lumber Co. (For the Trade Only), Oshkosh, Wis., & 1 Madison av, New York

Palmer, Fuller & Co. (Wholesale Mfrs.), 2244 Lumber, Chicago, Ill.

Peirce, W. E. & Co. (Wholesale Mfrs.), Millford, N. H.

PFAFF & KENDALL ("Hercules" Fireproof), Ferry & Foundry, Newark, N. J. (See adv. index, end of book)

Puget Sound Mills & Timber Co., Seattle, Wash.

Roberts, E. L. & Co. (For the Trade Only), W. 22d & Union pl, Chicago, Ill.

Roberts, U. N. Co. (Wholesale Mfrs.), Davenport, Ia.

Rockwell Mfg. Co. (For the Trade Only), Milwaukee, Wis.

Sanders, Henry Co. ("Koll's," Lock Joint), 930 Elston av, Chicago, Ill.

Schaller-Hoerr Co., Chicago, Ill.

Schwerd, A. F., Allegheny, Pa.

Seattle Cedar Lumber Mfg. Co., Seattle, Wash.

Spangler, Frank Co. (Tongued & Grooved, Patent Staved), Toledo, O.

STEARNS, A. T. LUMBER CO. (Wholesale Mfrs.), Neponset, Boston, Mass. (See adv. index, end of book)

United States Column Co. ("Lally Patent"), 220 Devonsblre, Boston, Mass.

Washington Mfg. Co., Tacoma, Wash.

Weybrecht's, J. T. Sons (Solid & Staved), Alliance, O.

Whatcom Falls Mills Co. (Red Cedar for Trade Only), Bellingham, Wash.

Wheeler, Osgood Co. (Cedar & Fir), Tacoma, Wash.

Wilkinsburg Stair Co., Wilkinsburg, Pa.

Zimmerman, Chas. E., 204 Burnet, Syracuse, N. Y.

Columns (Porch, Pressed Steel)

CINCINNATI WALL TIE CO., 206 E. 5th, Cincinnati, O. (See adv. index, end of book)

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Columns (Porch, Sheet Metal)

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Columns (Steel Pipe)

Acme Column Co. (Filled with Concrete), 234 N. Henry, Brooklyn, N. Y.

Comealongs or Wire Pullers

(See also Grips, Cable)

B-R Electric & Tel. Mfg. Co. ("Penn," Tightener), Kansas City, Mo.

Burr Mfg. Co., 2108 Superior av, N W, Cleveland, O.

Dicke, C. H. Tool Co. ("Howe"), Downers Grove, Ill.

Eureka Fence Mfg. Co. ("Sedgwick"), Richmond, Ind.

Eureka Tempered Copper Co. ("Parallel," "Westfield"), North East, Pa.

Farr Telephone Construction Supply Co. ("Rowlands"), 118 W Jackson boul, Chicago, Ill.

Irrington Mfg. Co., Irvington, N. J.

Klein, Mathias & Son ("American Grip," "Haven's," "Landee's," "Chicago Grip"), 87 Van Buren, Chicago, Ill.

Locke Insulator Mfg. Co., Victor, N. Y.

Nagel, W. G. Elec. Co., Toledo, O.

Never Slip Wire Stretcher & Novelty Co., West Farmington, O.

Rittenhouse Co. (Wire Stretcher), Scranton, Pa.

Sawyer C. L. ("Hercules" Wire Stretcher), Millers Falls, Mass.

Western Electric Co. ("Buffalo Grip"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Commutator Building & Refilling

(See Armature Rewinding, & Commutator Refilling)

Commutator Copper

(See Copper for Commutator Bars)

Commutator Dressing

(See Compounds, Commutator)

Commutator Refilling

(See Commutators)

(Also Armature Rewinding & Commutator Refilling)

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Commutator Segments.

(See Bars, Commutator)

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Jordan Bros., 74 Beekman, New York
Patterson Tool & Supply Co., Dayton, O.
Tschudi-McBarron Machine Co. ("Excelsior"),
Dayton, O.

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(See also Bars, Commutator)

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Columbia Machine Works & Malleable Iron Co.,
369 Chestnut, Brooklyn, N. Y.
Doubleday-Hill Elec. Co., Pittsburg, Pa.
Eureka Tempered Copper Works, North East,
Horner Commutator Co., Cleveland, O. Pa.
Ridlon, Frank Co., Boston, Mass.
VAN DORN ELEC. & MFG. CO., 2694 E.
79th, Cleveland, O. (See adv. index, end
of book)
WESTINGHOUSE ELECTRIC & MFG. CO.,
Union Bank Bldg., Pittsburg, Pa. (See
adv. index & branch offices, end of book)
Woolley Electric Co., St. Louis, Mo.

Commutators (Gas Engine)

Crouse-Hinds Co., Syracuse, N. Y.

Compasses

(See also Dividers)

Ainsworth, Wm., & Sons, Denver, Colo.
Bliss, J. & Co., 128 Front, New York
Deitzen, Eugene, Co. ("Economy" Beam), 181
Monroe, Chicago, Ill.
Gurley, W. & L. E., Troy, New York
Huntley, Wm. (Hedenberg Works), Newark,
N. Y.
Krauter & Co., 577 18th av, Newark, N. J.
McAllister, T. H., 49 Nassau, New York
Merrill's R. Sons, 66 South, New York
Negus, T. S. & J. D., 140 Water, New York
Peck, Stow & Wilcox Co., Southington, Conn.
Pfister, Herm, 428 Plum, Cincinnati, O.
QUEEN & CO. (Inc.), n. w. c 8th &
Arch, Philadelphia, Pa. (See adv. index,
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Tower & Lyon Co., 95 Chambers, New York

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AMERICAN CONCRETE CO., 80 Wil-
liam, New York. (See adv. index, end of
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NORTHWESTERN COMPO BOARD
Co., Minneapolis, Minn. (See adv. index,
end of book)

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end of book)
Ferrofix Brazing Co., of Phila., 2026 Cuth-
bert, Phila., Pa.
Hauck Manufacturing Co., 140 Cedar, New
York
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Krembs & Co. ("Fluxline"), Chicago, Ill.
MACLEOD, WALTER & CO., 213 E
Pearl, Cincinnati, O. (See adv. index, end
of book)
Oldham, Joshua, & Son ("Oldham"), 128 26th,
Brooklyn, N. Y.
Reese, J. A. ("Woltz"), Washington, D. C.
Standard Brazing Co. (Inc.), Board of Trade
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Universal Fluxline Co. ("Universal Fluxline"),
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Welderline Mfg. Co., Topeka, Kan.

Compounds (Cable)

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Compounds (Case Hardening & Tempering)

Altamus, W. F. & Co. ("Diamond" Tool Hard-
ening & Tempering Compound), Hartford,
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American Cyanamid Co. (Terrodur & Cyana-
mid), 160 B'way, New York
Binney & Smith Co., 81 Fulton, New York
Houghton, E. F. & Co. ("Houghton's" Case
Hardening, Hydro-Carbonated Bone Black
for Tempering "Houghton's" Tempering
Oil), 240 W. Somerset, Phila., Pa.
Metal Hardening Solution Co. ("Kalux"), Ro-
chester, N. Y.
Mosso, C. A. (Tool Hardening & Tempering),
39 Seeley av., Chicago, Ill.
National Patent Holding Co., Railway Exch
bldg, Chicago, Ill.
Ohlo Nut & Bolt Co. (Annealing), Berea, O.
Rogers & Hubbard Co. ("Hubbard's" Granu-
lated & Parneacha Raw Bone for Case Hard-
ening, etc.), Middletown, Conn.
Techno-Chemical Co. ("Techno"), Cleveland,
Ohio

Compounds (Clutch or Brake)

Victor Clutch Compound Co. ("Victor" for
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Drives), Nashua, N. H.

Compounds (Commutator)

Allen, L. B. Co. ("Allen"), Monadnock bldg,
Chicago, Ill.
Chicago Solder Co., 44 N Union, Chicago, Ill.
Corliss Chemical Co., St. Louis, Mo.
Crescent Co., Valparaiso, Ind.
Crown Woven Wire Brush Co., Salem, Mass.
DIXON, JOS. CRUCIBLE CO. (Graph-
ite), Jersey City, N. J. (See adv. index &
branch offices, end of book)
DuPerow Electric Co. ("Deco"), Washington,
D. C.
Dyno & Chemical Mfg. Co., Aurora, Ill.
Electrical & Mechanical Development Co.
("Hickley's Hiko"), Asbury Park,
N. J.
Fres-Ko Chemical Co., Fort Wayne, Ind.
Goldmark, Jas. ("Trotters"), 83 Warren, New
York
Hart & Co. ("Red Cross"), Fostoria, O.
Le Valley Vitae Carbon Brush Co. ("Gold Met-
al"), 405 E Tremont av, New York
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McLennan Paint Co. ("Gale's"), 192 E Kenzie,
Chicago, Ill.
Nagel, W. G. Elec. Co. ("Eclipse"), Toledo, O.
Onward Mfg. Co. ("O. C. Little"), Menasha,
Wis.
Pettingell, Andrews Co. ("Old Colony"), Bos-
ton, Mass.
Slusser Bros., Charleston, W. Va.
WALSH, JNO. F. CO. ("K. & W.,"
"Anti-Spark"), Pittsfield, Mass. (See adv.
index, end of book)
Warren Lubricant Co., Warren, Pa.
Yankee Commutator Compound Co., 516 W 25th,
New York

Compounds (Core)

Buckeye Milling Co., Cleveland, O.
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Holland Linseed Oil Co. ("Holland" Liquid),
685 Austin av., Chicago, Ill.
Miller's Products Co. ("Black Diamond"),
39th & Wallace, Chicago, Ill.
Mills, H. E., Mfg. Co. ("Mills"), Syracuse,
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National Jeloluse Co., 547 W 43d, New York
Obermayer S. Co. ("Kantbebeat" Dry), Cin-
cinnati, O.
Semet-Solvay Co. ("Solvay"), Syracuse, N. Y.
SMITH, J. D. FOUNDRY SUPPLY CO.,
1846 Scranton rd, N. W. Cleveland, O. (See
adv. index, end of book)
Sterling Oil Co. ("Sterling" Core Oil), Emlen-
ton, Pa.

Compounds (Damp Resisting)

(See Waterproofing Materials)

Compounds (Drilling)

Lewis Drilling Compound Co., Sauquoit, N. Y.
White & Bagley Co., Worcester, Mass.

Compounds (Dust Laying)

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Good Roads Improvement Co. ("Asphaltol-
ene" for Macadam & Gravel Roads),
First Nat'l Bank bldg, Cincinnati, O.
Gulf Refining Co. (Heavy Oil of Asphaltum
Base for Oiling Roads), Pittsburg, Pa.
Imperial Road Co. ("Imperial" for Macadam
& Gravel Roads), Times bldg., New York
INDIAN REFINING CO. (For Macadam
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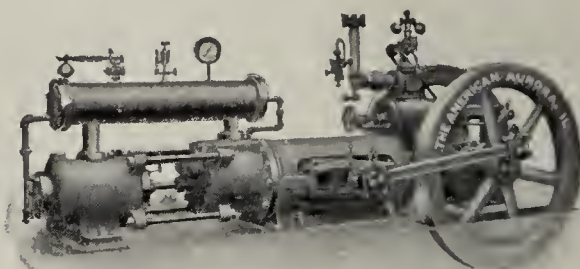
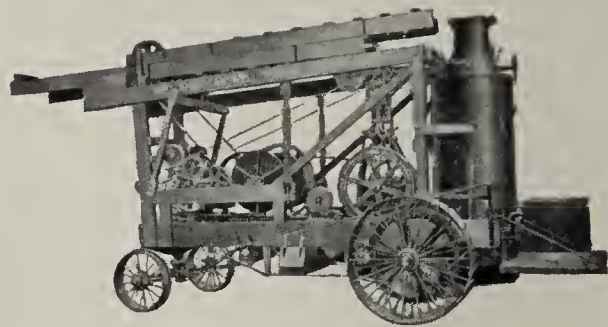
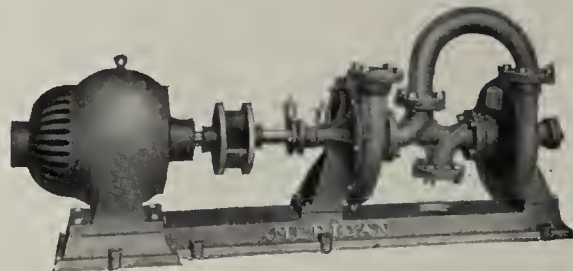
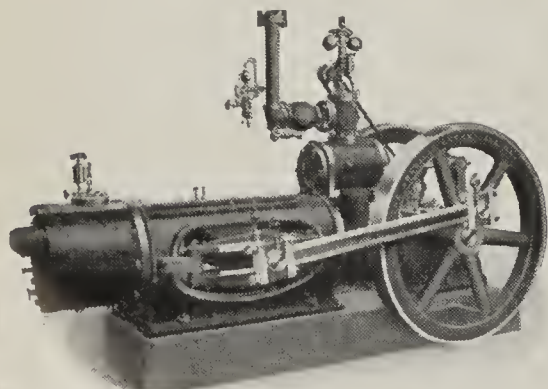
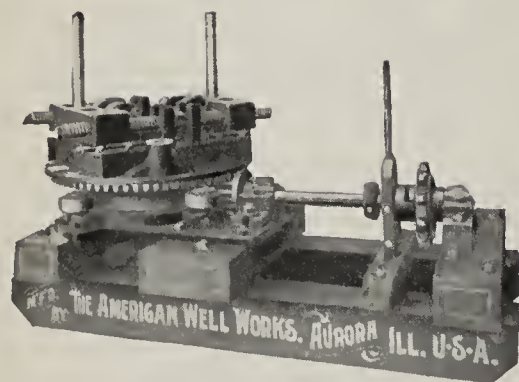
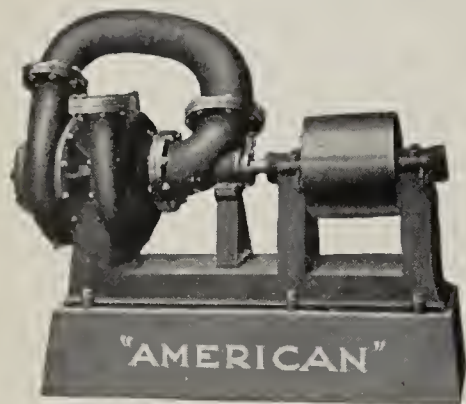
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Molds), 73 Warren, New York

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on's" Graphite), Jersey City, N. J. (See
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boga Falls, O.

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gan av, Chicago, Ill.

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Massachusetts Chemical Co., Walpole, Mass.

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Perfection Welding Compound Co. ("Perfec-
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index, end of book)

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Gnild & Garrison, Kent av c S 10th

Boroughs of Manhattan & Bronx.

NEW YORK—American Air Compressor Works.

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AMERICAN WELL WORKS, 2

Stone. (See adv. index, end of book)

Cameron, A. S., Steam Pump Works, ft.

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CLAYTON AIR COMPRESSOR

Works, 115 B'way. (See adv. index, end
of book)

FAIRBANKS, MORSE & CO. (Air,
Gasoline & Steam), 133 Liberty. (See
adv. index, end of book)

INGERSOLL - RAND CO. (of New
York City) (Steam, Belt, Electric, Corliss
& Steam Driven), 11 B'way. (See adv.
index, end of book)

JEFFREY MFG. CO., 77 Warren.

(See adv. index, end of book)

LIDLAW-DUNN-GORDON CO., 115

B'way. (See adv. index, end of book)

McKernan Drill Co., 115 B'way

Manning, Maxwell & Moore (Belt Driven,
etc.), 85 Liberty

Niles-Bement-Pond Co. (Belt Driven, etc.),
111 B'way

PLATT IRON WORKS CO., 100

B'way. (See adv. index, end of book)

Roteng Engineering Corporation, 20 Vesey
Sullivan Machinery Co. (Duplex, Corliss &
Straight Line), 42 B'way
(End of New York City)

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Co. (Electric). (See adv. index, end of
book)

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low Valve Mfg. Co. ("Sturgess" High
Speed, Especially Designed for Clean-
ing Generators, etc.)

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CINCINNATI—FAIRBANKS, MORSE &
Co. (Air, Gasoline & Steam), 307 Wal-
nut. (See adv. index, end of book)

HILL & GRIFFITH CO., Cincin-
nati, O. (See adv. index, end of book)

LIDLAW-DUNN-GORDON CO., 115
B'way. (See adv. index, end of book)
McGowan, John H. Co.

CLEVELAND—FAIRBANKS, MORSE &
Co. (Air Gasoline & Steam), 99 Water.
(See adv. index, end of book)

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& Steam Driven), Williamson bldg. (See
adv. index, end of book)

COLUMBUS — JEFFREY MFG. CO.
(See adv. index, end of book)

Weinman Machine Works (Small)

DAYTON—PLATT IRON WORKS CO. (See
adv. index, end of book)

ST. MARYS—Hesler Co. (High Duty).

SALEM—DEMING CO. (See adv. index,
end of book)

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PENNSYLVANIA.

ALLEGHENY—Hall Steam Pump Co.

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ERIE—Bury Compressor Co. (Steam, Belt &
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FRANKLIN—Chicago Pneumatic Tool Co.

OIL CITY—Riverside Engine Co.

PHILADELPHIA — DALLETT, THOS. H.
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book)

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& Steam Driven), Arcade bldg. (See adv.
index, end of book)

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Underwood, H. B. & Co. (Compound Tan-
dem Belt), 1027 Hamilton

PITTSBURG — INGERSOLL-RAND CO.
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tric, Corliss & Steam Driven), Farmers'
Bank bldg. (See adv. index, end of book)

JEFFREY MFG. CO. (See adv. in-
dex, end of book)

Mesta Machine Co., Lewis bldg.

WESTINGHOUSE AIR BRAKE CO.,
The (Steam Driven)

WESTINGHOUSE MACHINE CO. (Tur-
bine Type), Westinghouse bldg. (See
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Wilson-Snyder Mfg. Co., Ross & Water

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SCRANTON — ALLIS-CHALMERS CO.
("Reynolds" Belted Steam, etc.). (See
adv. index, end of book)

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WILKES-BARRE—Vulcan Iron Works

RHODE ISLAND.

PROVIDENCE—Builders' Iron Foundry
General Fire Extinguisher Co.

TEXAS.

DALLAS—AMERICAN WELL WORKS.
(See adv. index, end of book)

EL PASO—INGERSOLL-RAND CO. (of
New York City) (Steam, Belt, Electric,
Corliss & Steam Driven), 121 San Fran-
cisco. (See adv. index, end of book)

WASHINGTON.

SEATTLE—INGERSOLL-RAND CO. (of
New York) (Steam, Belt, Electric, Cor-
liss & Steam Driven). (See adv. index,
end of book)

SPOKANE—FAIRBANKS, MORSE & CO.
(Air, Gasoline & Steam) (See adv. index,
end of book)

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GARDNER GOVERNOR CO., Quincy, Ill.
(See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)

MacLeod, Walter & Co. (Motor
Driven, etc.).
Cincinnati, O.

*Compressors (Air, Second- Hand)

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cago, Ill. (See adv. index, end of book)

Compressors (Ammonia)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

BLAKE, GEO. F. MFG. CO. (Gas), 115
B'way, New York. (See adv. index &
branch offices, end of book)

CLAYTON AIR COMPRESSOR WKS.,
115 B'way, New York. (See adv. index &
branch offices, end of book)

Creamery Package Mfg. Co., 182 E Kenzie,
Chicago, Ill.

Great Lakes Engineering Works, Detroit, Mich
Guild & Garrison, Kent av c S 10th, Brooklyn,
N. Y.

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)

KNOWLES STEAM PUMP WORKS
(Gas), 115 B'way, New York. (See adv.
index & branch offices, end of book)

LIDLAW - DUNN - GORDON CO., 115
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branch offices, end of book)

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index & branch offices, end of book)

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Ill. (See adv. index & branch offices, end
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BLAKE, GEO. F. MFG. CO. (Ammo-
nia, Carbonic Acid), 115 B'way, New York.
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Chicago Pneumatic Tool Co., Fisher bldg, Chi-
cago, Ill.

CLAYTON AIR COMPRESSOR WKS
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ural & Oxygen Gas), 115 B'way, New York.
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(See adv. index, end of book)

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INGERSOLL-RAND CO., 11 B'way,
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New York

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York. (See adv. index & branch offices, end
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Nordberg Mfg. Co., Milwaukee, Wis.

NORWALK IRON WORKS CO., South
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(See adv. index & branch offices, end of book)

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dex & branch offices, end of book)

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New York. (See adv. index & branch offices,
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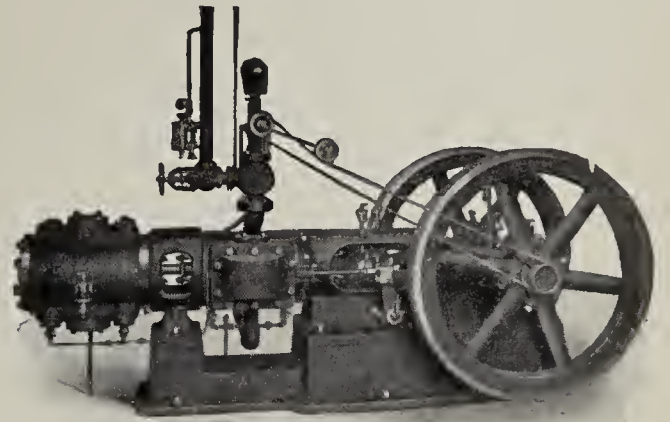
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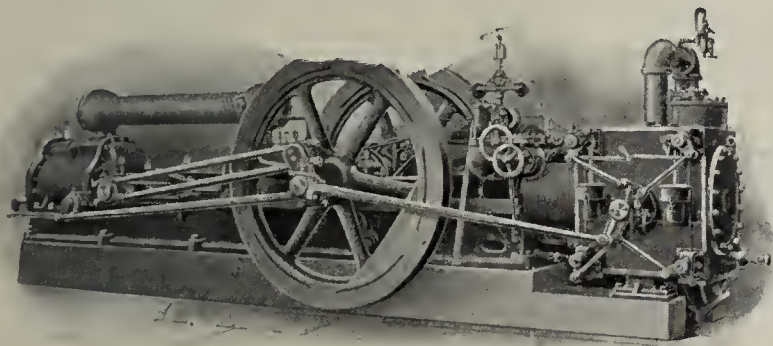
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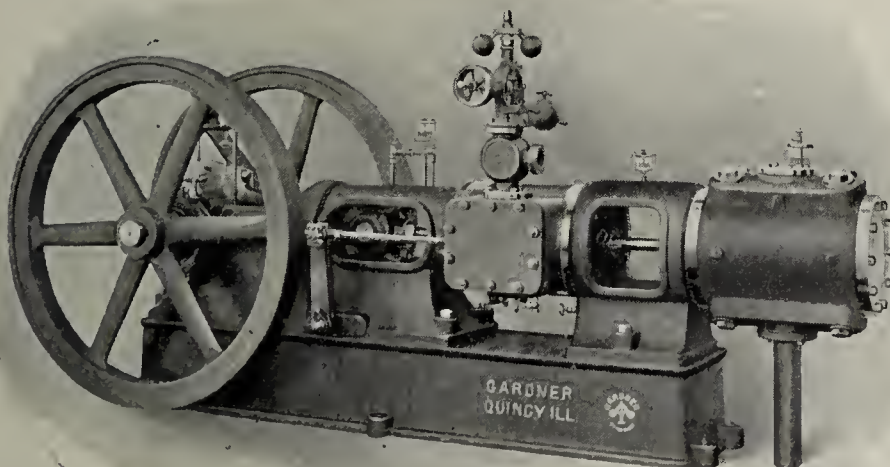
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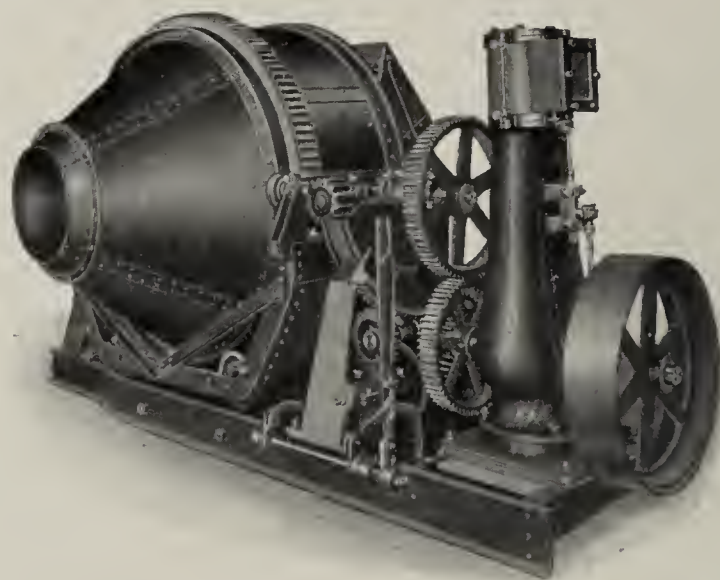


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 Expanded Metal Engineering Co., 225 5th av., New York
 Expanded Metal Fireproofing Co., of Pittsburg, 541 Wood, Pittsburg, Pa.
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SMITH, F. P., WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book.)
 Southern Expanded Metal Co., Colorado bldg, Washington, D. C.
TRUSS METAL LATH CO. (Kuhn's) System of Reinforced Concrete, 147 4th av., New York. (See adv. index, end of book)

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AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)

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 Gollick & Smith, 162 E 23d, New York
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 Monsted, A. & Co. ("Ransome" System), Milwaukee, Wis.
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 Reinforced Cement Construction Co., 1 Madison av, New York
 Standard Concrete Steel Co., 413 E 31st, New York
 Steel Concrete Construction Co. ("Ransome" System), Albany, N. Y.
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 Ballou Mfg. Co. ("Demorest," "Little Giant"), Belding, Mich.
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 Byers, John F. Machine Co., Ravenna, O.
 Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
 Cargill Mfg. Co. ("American"), Columbus, O.
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 Cook Mfg. Co., Albion, Mich.
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 Drake Standard Machine Works, 298 W Jackson boul, Chicago, Ill.
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 Eureka Machine Co. ("Eureka"), Lansing, Mich.
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JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
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 Kingston Mfg. Co. ("Hadsel"), Wilkes-Barre, Pa.
 Knickerbocker Co. ("Coltrin"), Jackson, Mich.
KOEHRING MACHINE CO. ("Koehring"), Milwaukee, Wis. (See adv. index, end of book)
 Link Belt Co. ("Trump" Measuring & Mixing Machines), W 39th, c Stewart av, Chicago, Ill., & 299 B'way, New York
 Louisville Machine Co., Louisville, O.
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 Mackay, A. D. & Co. ("Victor"), 100 Washington, Chicago, Ill.
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 South Bend Machine Mfg. Co. ("Standard"), South Bend, Ind.
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 Standard Machine Co. ("Standard" Continuous), Kent, O.

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 Standard Scale & Supply Co. ("Eclipse"), Pittsburgh, Pa.
 Svenson-Shuman Machine Co. ("Svenson"), Pittsburgh, Pa.
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 American Sheet & Tin Plate Co. (Steel), Frick Bldg., Pittsburgh, Pa.
AMERICAN STEEL & WIRE CO. (Steel Reinforcement), Com. Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 American System of Reinforcing ("American" Systems of Rods & Wire Fabric), 189 La Salle, Chicago, Ill.
 American System of Reinforcing ("Unit"), 35 W 23d, New York
 American Wire Fence Co. (Wire Fibre & High Carbon Rods, Round & Twisted Shapes), 180 La Salle, Chicago, Ill.
 Atlanta Steel Co. (Plain or Twisted Bars), Atlanta, Ga.
BERGER MFG. CO., THE ("Ferro-Lithic" Plates for Interlocking of Concrete), Canton, O. (See adv. index & branch offices, end of book)
BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)
 Bourne-Fuller Co., Cleveland, O.
 Brayton Engineering Co. ("Brayton" System), St. Paul, Minn.
BROWN HOISTING MACHINERY CO. ("Ferroinclave"), Cleveland, O. (See adv. index & branch offices, end of book)
 Buffalo Steel Co. (High Carbon Steel Twisted Bars, Plain Bars, Rounds, Squares, Flats), Tonawanda, N. Y.
 Calumet Steel Co. (Steel Bars & Shapes, Plain & Twisted Squares), Com. B'k bldg, Chicago, Ill.; Works: Washington Heights, Ill.
 Cambria Steel Co. (Twisted Steel Bars), Arcade bldg., Phila., Pa.
 Cargill Mfg. Co. (Steel Wire Fabric & Cables), Columbus, O.
 Carnegie Steel Co. (Twisted Steel Bars), Pittsburgh, Pa.
 Central Expanded Metal Co., Pittsburgh, Pa.
 Chicago Builders' Specialties Co. ("Twisted" Steel Bars & Expanded Metal), 138 Washington, Chicago, Ill.
 Clinton Wire Cloth Co. (Electrically Welded Steel Wire Fabrics), Clinton, Mass.
 Columbian Concrete Steel Bar Co. ("Columbian" Ribbed Steel Bars), Pittsburg, Pa.

Concrete-Steel Co. ("Havemeyer" Steel Bars, etc.), 29 B'way, New York
 Concrete Steel Engineering Co. ("Melan," "Thacher" & "Emperger" Steel Bars, etc.), 15 Park Row, New York
 Corrugated Bar Co. (Corrugated Steel Bars), Nat'l Bank of Commerce Bldg., St. Louis, Mo.
 Electric Welding Mfg. Co. ("Cummings" System), House bldg, Pittsburgh, Pa.
 Expanded Metal Engineering Co., 225 5th av., New York
Gabriel Concrete Reinforcement Co. ("Gabriel" Reinforcing Bar), Detroit, Mich.
GENERAL FIREPROOFING CO. (Cold Twisted Lug Bar, etc.; also Wire Fabric), Youngstown, O., & 10 E 33d, New York. (See adv. index & branch offices, end of book)
 Goff, Horner & Co. (Ltd.) ("Cummings" System of Twisted Steel & Plain Round, Square & Flat Steel Bars, etc.), Frick Bldg., Pittsburgh, Pa.
 Hudson Structural Steel Co. ("Hudson" Steel Bar), Southern boul & 136th, New York
 Inland Steel Co. (Steel Twisted Bars, Plain Bars, Rounds, Squares & Flats), First Nat'l Bank bldg, Chicago, Ill. Works, Chicago Heights, Ill., & Indiana Harbor, Ind.
 Interstate Iron & Steel Co. (High Carbon Steel, Plain & Special Bars), First Nat'l Bank bldg., Chicago, Ill.
 Jones & Laughlin Steel Co. (Twisted Steel Bars), Pittsburgh, Pa.
 Lock Bar Steel-Concrete Co. (Cold Twisted Steel Lock Bar), Commercial Bldg., Chicago, Ill.
 Majestic Wire Fence Co., Detroit, Mich.
 Maxwell Concrete Steel Co. ("Maxwell" Inner Bond Steel Bars, Trussed & Deformed Steel Bars), Detroit, Mich.
 Monolith Steel Co. (Inc.) ("Monolith" Steel Bars), Washington, D. C.
 National Wire Cloth Co. (Wire Cloth Reinforcement), Sandusky, O.
 New Haven Iron & Steel Co. (Twisted Iron & Steel Bars), New Haven, Conn.
 Northwestern Expanded Metal Co., Old Colony bldg, Chicago, Ill.
 Page Woven Wire Fence Co. (Reinforcing Wire Fabric), Monessen, Pa.
RANSOME CONCRETE MACHINERY Co. (Twisted Steel), Dunellen, N. J. (See adv. index & branch offices, end of book)
 Republic Iron & Steel Co. (Rounds, Flats, Squares & Cold Twisted Bars), Pittsburgh, Pa.
 Rodgers Co. (Twisted Steel Bars), Monaca, Ill.
 Rogers-Shear Co. (Twisted, Plain & Corrugated Steel Bars), Warren, Pa.
 Schilling Bros. Co. (Special Bars & Appliances), Chicago, Ill.
 Security Construction & Engineering Co. (Security System), Brookline, Mass.
SHARON STEEL HOOP CO. (Bars & Light Shapes), Sharon, Pa. (See adv. index & branch offices, end of book)
SMITH, F. P. WIRE & IRON WORKS (Spiral Column, Stirrups & Shear Cars for Concrete Beams, Columns, etc.), 100 Lake Chicago, Ill. (See adv. index, end of book)
TRUSS METAL LATH CO. ("Kuhne's" Truss & Clincher Lath), 147 4th av, New York. (See adv. index, end of book)
 Truss & Cable Fence Co. (Special Wire), Cleveland, O.
TRUSSED CONCRETE STEEL CO. (Trussed Concrete Bldg.), Detroit, Mich. (See adv. index & branch offices, end of book)
 Union Steel Screen Co. (Ltd.) ("Union," Interlocking System), Albion, Mich.
 Universal Form Co. ("Universal" Steel Clad Monolithic), 126 Centre, New York
 Wight, W. N. & Co. (Lock Woven Steel Fabric), 160 5th av, New York
 Wire Specialty Co. (Wire Anchors, Rods, Wall Ties, Post Staples, etc.), 43 Fulton, Chicago, Ill.
WISCONSIN IRON & WIRE WORKS (Wire Cloth, etc.), 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

WRIGHT WIRE CO. (Material, Wire Fabrics, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)
 Youngstown Iron & Steel Roofing Co. (Corrugated Expanded Metal, etc.), Youngstown, Ohio

*Concrete Reinforcing & Spaces

HUNT METAL CORNER CO., Westboro, Mass. (See adv. index, end of book)

Concrete Steel Construction (Reinforced)

Aberthaw Cons. Co., 8 Beacon, Boston, Mass.
 Altoona Concrete Construction & Supply Co., Altoona, Pa.
 Ambursen Hydraulic Construction Co. (Dams, Bulkheads, etc.), 176 Federal, Boston, Mass.
 American Column Co. (Columns), 252 Huron, Brooklyn, N. Y.
AMERICAN CONCRETE CO., 80 William, New York (See adv. index, end of book)
 American Concrete Steel Co., 11 Clinton, Newark, N. J.
 American System of Reinforcing, 35 W 23d, New York
 Armored Concrete Construction Co., Bldrs Ex. bldg, Baltimore, Md.
 Baltimore Ferro Concrete Co., Baltimore, Md.
 Bates & Rogers Construction Co. (Heavy Bridge Work, etc.), 355 Dearborn, Chicago, Ill.
 Bender Co., Hamilton, O.
 Bentley, A. & Sons Co., Toledo, O.
 Berlin Construction Co. (Bridges, Buildings, etc.), Berlin, Conn.
 Bick, J. N., The Nasby, Toledo, O.
 Blome, R. S. Co., 79 Dearborn, Chicago, Ill.
BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)
 Brayton Engineering Co. (Concrete Steel Structures), St. Paul, Minn.
BROWN HOISTING MACHINERY Co. ("Ferroinclave"), Cleveland, O.; 26 Cortlandt, New York, & Pittsburg, Pa. (See adv. index, end of book)
 Brown, Jno. G., Witherspoon bldg, Phila., Pa.
 Buell & Mitchell, 120 Liberty, New York
 Buffalo Expanded Metal Co., Buffalo, N. Y.
 Carey Construction Co., Electric bldg, Cleveland, O.
 Cargill Mfg. Co., Buttles av., Columbus, O.
 Carmichael, Wm. P. Co., Williamsport, Ind.
 Cary Bros. (Plain & Reinforced), Memphis, Tenn.
 Central Concrete Const. Co., Louisville, Ky.
 Central Concrete Construction Co., Loan & Trust Co., Milwaukee, Wis.
 Central States Bridge Co. (Heavy Concrete Work), Indianapolis, Ind.
 Cerutti System ("Cerutti" System of Reinforced Concrete Flooring), 1133 B'way, New York
 Clough Concrete Construction Co., Quincy, Ill.
 Columbian Concrete Steel Bar Co. ("Columbian" System), Pittsburg, Pa.
 Concrete Engineering Co., Davenport, Ia.
 Concrete Steel Co., 29 B'way, New York
 Concrete Steel Engineering Co. (Concrete Bridges, Floors, etc.), 15 Park row, N. Y.
 Concrete Steel & Tile Const. Co., Detroit, Mich.
 Consolidated Engineering & Construction Co., 1 Madison av, New York
 Consolidated Expanded Metal Co.'s, Keenan Bldg., Pittsburg, Pa.
 Continental Fire-Proofing Co., Inc., San Francisco, Cal.
 Corrugated Bar Co. (Corrugated Steel Bars), Nat'l Bank of Commerce Bldg., St. Louis, Mo.
 Cowing Engineering Co., Cleveland, O.
CURTIN-RUGGLES CO., 39 Cort- landt, New York
 Curtiss & Dean, 22 Hopkins, Hartford, Conn.
 Denholm & Co., 1917 Vine, Cincinnati, O.
 Eastern Concrete Const. Co., Boston, Mass.

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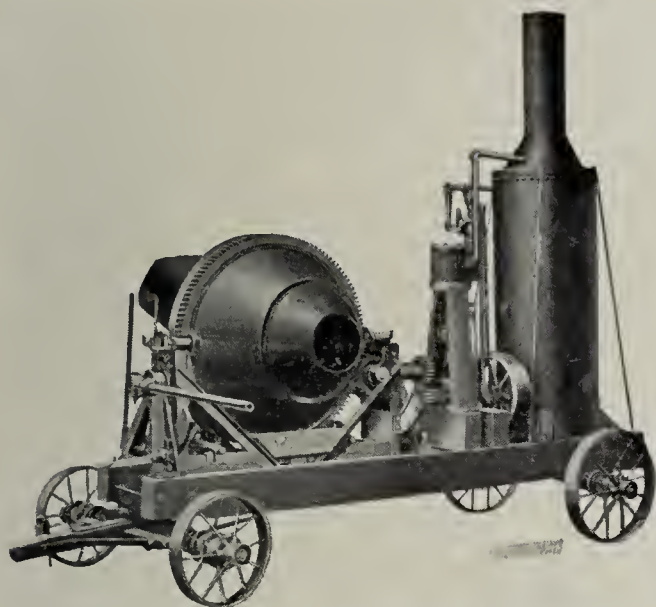
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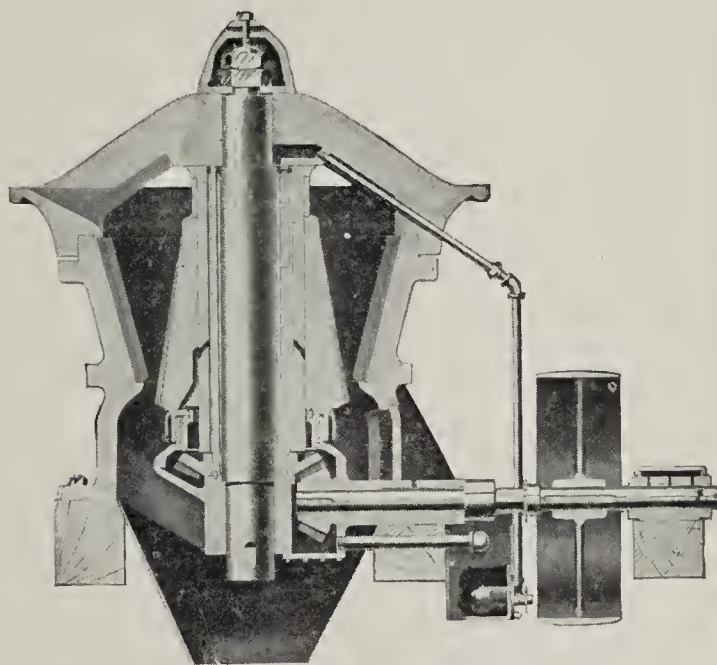
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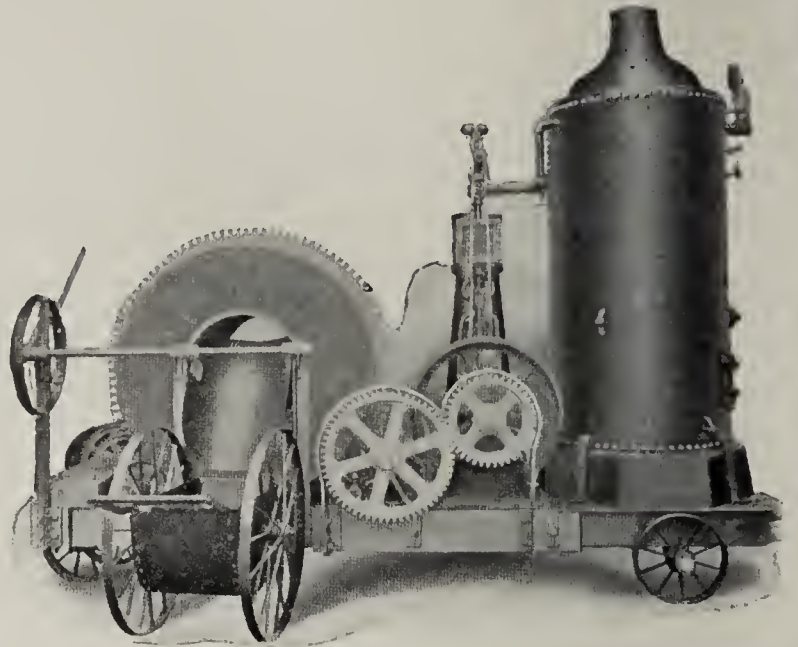
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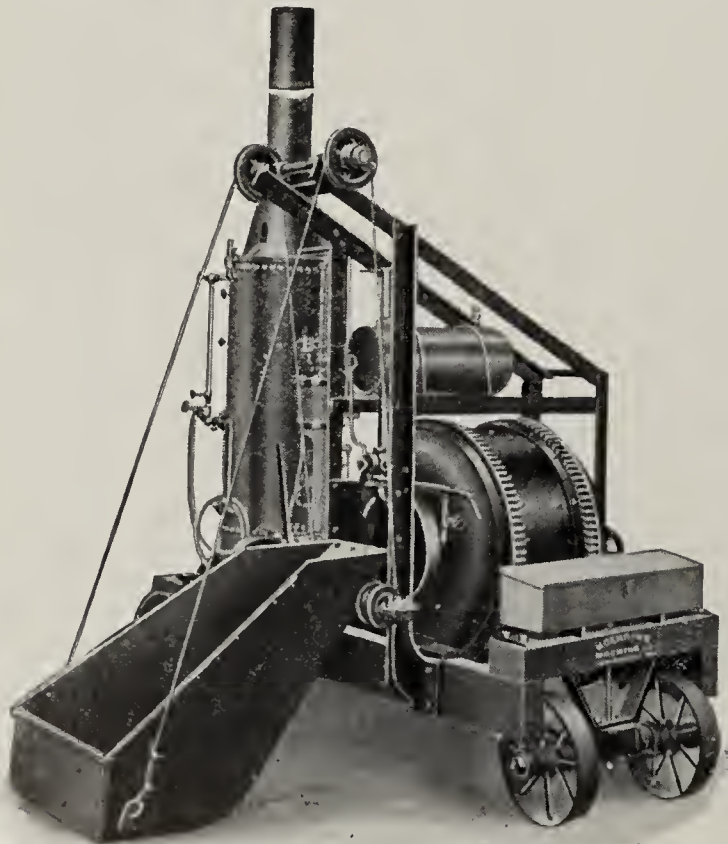
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 Engineering Construction Co., Scranton, Pa.
 Enterprise Contracting Co., Pittsburg, Pa.
 Expanded Metal Engineering Co. (Reinforced),
 225 5th av, New York
 Expanded Metal Fireproofing Co. (of Pitts-
 burg, Pa.), 541 Wood, Pittsburg, Pa.
 Fell, Henry R. Co., Trenton, N. J.
 Ferro-Concrete Co. (Bridges, Buildings, etc.),
 Arcade bldg, Phila., Pa.
 Ferro-Concrete Construction Co., Cincinnati, O.
 Ferro-Concrete Contracting Co., 1 Madison
 av, New York
 Filbert Paving & Construction Co., Penna.
 bldg, Phila., Pa.
 Gabriel Concrete Reinforcement Co. ("Gabriel"
 System), Detroit, Mich.
 Geisel Construction Co. (Bridges, etc.), 620
 Chestnut, St. Louis, Mo.
 General Construction Co., Milwaukee, Wis.
 General Engineering & Construction Co., Seat-
 tle, Wash.
GENERAL FIREPROOFING CO., Youngs-
 town, O., & 10 E 33d, New York. (See
 adv. index, end of book)
 Globe Construction Co., San Francisco, Cal.
 Godwin Cons. Co., 30 Church, New York
 Gollick, Stanley Co., 1133 B'way, New York
 Gollick & Smith, 162 E 23d, New York
 Graham Construction Co., Milwaukee, Wis.
 Grant, Geo. J., St. Paul, Minn.
 Great Lakes Dredge & Dock Co., Chamber of
 Commerce bldg, Chicago, Ill.
 Great Northern Concrete Co., Milwaukee, Wis.
 Greenfield, Arthur (Inc.) (Reinforced Floors,
 etc.), 134 E 31st, New York
 Guarantee Const. Co., 90 West, New York
 Hindman-Henderson Co. (Concrete Steel
 Structures), 245 4th av, Pittsburg, Pa.
 Hennebique Construction Co. (Armored Con-
 crete), 1170 Broadway, New York
 Hinchman-Rentou Fireproofing Co., Denver,
 Colo.
 Hoeffler & Co., 138 Wash'n, Chicago, Ill.
 Hollow Brick & Concrete Construction Co.,
 110 W 34th, New York
 Hopkins-Barnett Co., Calvert bldg, Balti-
 more, Md.
 Hudson Concrete Construction Co., Jersey
 City, N. J.
 Hudson Structural Steel Co., 136th & So. boul,
 Hunt Engineering Co., Iola, Kan.
 Illinois Bridge Co. (Bridges, etc.), Chicago, Ill.
 Ince, John C., Construction Co., San Fran-
 cisco, Cal.
 Interstate Engineering Co., 50 Church, New
 York
 Kansas City Bridge Co., Kansas City, Mo.
 Keatinge, Richard & Sons, San Francisco,
 Cal.
 Kittle Construction Co., San Francisco, Cal.
 Languist & Illsley Co., 393 N Clark, Chicago, Ill.
 Leighton, H. N. Co., Minneapolis, Minn.
 Ley Construction Co., Springfield, Mass.
 Lock Bar Steel Concrete Co., Commercial Bk.
 bldg., Chicago, Ill.
 Lucius Co., Hartje bldg, Pittsburg, Pa.
 McCarrel Compo-Stone Co., Jacksonville, Fla.
 McGrath, M. P. (Street Railway & Concrete
 Construction), Easton, Pa.
 McManis & Son, Princeton, Ill.
 Mausfield Engineering Co., Bd. of Trade bldg,
 Indianapolis, Ind.
 Marsh Bridge Co. (Bridge Structures & Found-
 ations), Des Moines, Ia.
 Masters & Mullen Const. Co., Cleveland, O.
 Melber Co. (Inc.) ("Melber" Structural Ferro Ce-
 ment), Second National Bank bldg, Pitts-
 burg, Pa.
 Memphis Bridge Co., Memphis, Tenn.
 Menke, F. W., Stone & Lime Co., Quincy, Ill.
MERRITT & CO., Front & Arch.
 Camden, N. J. (See adv. index, end of book)
 Mess, L. & Co., San Francisco, Cal.

Miller, H. C. & Co. (Plans, Specifications &
 Estimates Furnished), 1 Madison av., New
 York
 Monsted, A. & Co., Pabst bldg, Milwaukee
 Moore-Mansfield Construction Co. (Inc.), Bd. of
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 Moyer Engineering & Construction Co., 375
 Fulton, Brooklyn, N. Y.
 National Concrete Co. (Bridges, etc.), Indian-
 apolis, Ind.
 National Concrete Const. Co., Louisville, Ky.
 National Concrete Fireproofing Co., William-
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 National Supply & Construction Co., Ellwood
 City, Pa.
 Nelson-Merydith Co., Chambersburg, Pa.
 Neuchatel Asphalte Co. (Ltd.), 265 B'way, N. Y.
 Newton Engineering Co. ("Kahn" System), 221
 Grand av, Milwaukee, Wis.
 Noble, C. W., Co., La Crosse, Wis.
 Noel Construction Co. ("Large"), Baltimore,
 Md.
 Northwestern Bridge Works, Portland, Ore.
 People's Construction Co., Davenport, Ia.
 Petersen, H. L., San Francisco, Cal.
 Pueblo Bridge Co. (Bridges, etc.), Pueblo, Colo.
 Ransome & Smith Co. (Fire-Proof Factories), 11
 Broadway, New York
 Read-Coddington Engineering Co., Niagara
 Falls, N. Y.
 Reinforced Concrete Construction Co., St.
 Louis, Mo.
 Roberts & Schaefer Co. (Coaling Stations,
 Concrete Stations, etc.), Chicago, Ill.
 Rodgers Co., Monadnock blk, Chicago, Ill.
 Schillinger Bros. Co., Chicago, Ill.
 Schillinger Bros. Co., Toledo, O.
 Simpson Bros. Corporation, 166 Devonshire, Bos-
 ton, Mass.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index,
 end of book)
 Southern Expanded Metal Co., Colorado bldg,
 Washington, D. C.
 Southern Ferro-Concrete Co., Atlanta, Ga.
 Stark, N. M. & Co. (Bridges, etc.), Des
 Moines, Iowa
 Standard Concrete Construction Co., 184 La
 Salle, Chicago, Ill.
 Standard Concrete Steel Co., 413 E 31st, New
 York
 Stebbings, W. L. (Also Plain Concrete Work),
 Monadnock blk, Chicago, Ill.
 Sterling Engineering & Cons. Co., Caswell bldg,
 Milwaukee, Wis.
 Stitzer, Jas. Hubert, Jr., Commonwealth Trust
 bldg, Phila., Pa.
 Strauss Bascul & Concrete Bridge Co. (Bridges
 & Steel Structures), Chicago, Ill.
 Syracuse Bridge Co. (Bridges, Foundations,
 etc.), Syracuse, N. Y.
 Talbott, H. E. & Co. (Bridges, Buildings, etc.),
 Dayton, O.
 Topeka Bridge & Iron Co. (Bridges, etc.), To-
 peka, Kan.
TRUSS METAL LATH CO. (Kuhne's),
 147 4th av, New York. (See adv. index,
 end of book)
TRUSSED CONCRETE STEEL CO., Trussed
 Concrete bldg, Detroit, Mich. (See adv.
 index & branch offices, end of book)
 Trussed Concrete Steel Co., Trussed Concrete
 bldg, Detroit, Mich.
 Tucker & Vinton (Steel Concrete Structures),
 103 Park av, New York
 Tunnel Concrete Co. (Tunnel Lining a Spe-
 cialty), 15 Broad, New York
 Turnbull Cons. Co., Penna. bldg, Phila., Pa.
 Turner Construction Co. ("Ransome" Rein-
 forced Concrete Const.), 11 B'way, New
 York
 Turner-Forman Concrete Steel Co. Phila., Pa.
 Union Engineering & Construction Co., First
 National Bank bldg, Chicago, Ill.
 Vonder Horst Bros. (Inc.), San Francisco, Cal.

Wallace-Coates Engineering Co. (Bridges, etc.),
 Ellsworth bldg, Chicago, Ill.
 Weber Co. (Reinforced Concrete Chimneys,
 etc.), 204 Dearborn, Chicago, Ill.
 Western Expanded Metal & Fireproofing Co.,
 San Francisco, Cal.
 Wight, W. N. & Co. (Lock Woven Steel Fab-
 ric), 160 5th av, New York
 Wisconsin Cement Cons. Co., 875 Teutonia av,
 Milwaukee, Wis.
 Worswick Street Paving Co., Fresno, Cal.
 Yard & Hichborn, Los Angeles, Cal.
 Youngstown Construction Co. (F. H. Schmidt,
 Pres.), 320 B'way, New York

Concrete Tools

(See Tools, Paving)

*Condensers (Air)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York. (See adv. index &
 branch offices, end of book)

Condensers (Ammonia)

Carbondale Machine Co., Carbondale, Pa.
 Harrisburg Pipe & Pipe Bending Co., Harris-
 burg, Pa.
 Kupferle Bros. Mfg. Co., St. Louis, Mo.
 Wolf, Fred. W. Co., 141 Rees, Chicago, Ill.
 York Mfg. Co., Ltd., York, Pa.

Condensers (Barometric)

Alberger Condenser Co., 95 Liberty, New York
ALLIS-CHALMERS CO. ("Tomlin-
 son"), Milwaukee, Wis. (See adv. index &
 branch offices, end of book)
 Blake Pump & Condenser Co., Fitchburg,
 Mass.
 Cameron, A. S., Steam Pump Works, ft. E.
 23d, New York
DEANE STEAM PUMP CO., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)
 Heisler Mfg. Co., St. Marys, O.
 Mesta Machine Co. ("Helander"), Pittsburg,
 Pa.
 Prescott, Fred M., Steam Pump Co., West Allis,
 Wis.
WORTHINGTON, HENRY R., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)

*Condensers (Distillers')

CENTRAL FOUNDRY CO., 37 Wall, New
 York. (See adv. index, end of book)

*Condensers (Ejector)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York. (See adv. index &
 branch offices, end of book)

Condensers (Electric)

BUNNELL, J. H. & CO., Park pl. &
 Church, New York. (See adv. index, end of
 book)
 Electric Specialty Co., Cresco, Iowa
 Foote, Pierson & Co., 160 Duane, New York
 Heine, Wm. A., Washington, D. C.
 Leeds & Northrup Co., 4901 Stenton av, Gtn.,
 Phila., Pa.
 Marshall, William, 709 Lexington av, New York
 Pearce, Fred'k Co., 20 Rose, New York

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 "TRUS-CON" JOIST HANGERS. HOLLOW TILE FIREPROOFING.

Trussed Concrete Steel Company

Detroit, Michigan

Offices in Principal Cities (See Adv. Index)

QUEEN & CO. (Inc.), n. w. e 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

Warner Electric Co., Muncie, Ind.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Condensers (Gas)

(See also Gas Works Apparatus & Construction)

Bartlett, Hayward & Co., Baltimore, Md.

Continental Iron Works, West & Cayler, Brooklyn, N. Y.

Gas Machinery Co., Citizens Bldg., Cleveland, Ohio

Isbell-Porter Co. (Primary & Secondary for Fresh or Salt Water), Newark, N. J.

Kerr-Murray Mfg. Co., Fort Wayne, Ind.

Stacey Mfg. Co., Township av & C. C. C. & St. Louis R. R., Cincinnati, O.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Condensers (Ice Machine)

Saubert Mfg. Co., 90 West, New York

Condensers (Independent)

(See Condensers, Steam)

Condensers (Jet)

(See Condensers, Steam)

*Condensers (Oil)

PETROLEUM IRON WORKS CO. ("Leman"), Sharon, Pa. (See adv. index & branch offices, end of book)

Condensers (Steam)

Alberger Condenser Co. ("Wainwright"), 95 Liberty, New York

ALLIS-CHALMERS CO. (Jet), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Barawanath, Wm. & Son, 52 W Division, Chicago, Ill.

BLAKE, GEO. F. MFG. CO. (Jet, Surface), 115 B'way, New York. (See adv. index & branch offices, end of book)

Blake Pump & Condenser Co. (Air & Steam Turbine, etc.), Fltchburg, Mass.

Buffalo Steam Pump Co. (Jet, Surface, etc.), Buffalo, N. Y.

Bulkley, Henry W. ("Bulkley") Air Pump, Injector, etc., 141 B'way, New York

Cameron, A. S., Steam Pump Works (Jet, Surface, etc.), ft. E. 23d, New York

Canton-Hughes Pump Co., Canton & Cleveland, Ohio

Cooper, C. & G. Co. (For Large Plants), Mount Vernon, O.

Cosmopolitan Co., 41 State, Chicago, Ill.

Davidson, M. T. (Surface & Jet), 43 Keap, Brooklyn, N. Y.

Dean Bros. Steam Pump Works (Jet & Surface), Indianapolis, Ind.

DEANE STEAM PUMP CO. (Jet, Self-Cooling & Surface), 115 B'way, New York. (See adv. index & branch offices, end of book)

Epping-Carpenter Co. (Surface & Jet), 41st & A. V. Ry., Pittsburgh, Pa.

Eydon-Evans Mfg. Co., 1509 Clearfield, Philadelphia, Pa.

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Flynn, W. S., 76 Hudson, Jersey City, N. J.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Great Lakes Engineering Works (Twin Vertical Air Pump Condenser Combined, for Salt, Sugar & Chemical Works), Rivard & Detroit river, Detroit, Mich.

Jessville Iron Works Co., Hazelton, Pa.

KNOWLES STEAM PUMP WORKS (Jet, Surface), 115 B'way, New York. (See adv. index & branch offices, end of book)

LIDLAW - DUNN - GORDON CO., 115 B'way, New York. Works: Cincinnati, O. (See adv. index, end of book)

Loew Mfg. Co., Cleveland, O.

McGowan, Jno. H. Co., Cincinnati, O.

Mason & Ross ("Dillon" Exhaust), Northville, Mich.

MEB Mfg. Co., Mount Vernon, O.

MINNEAPOLIS STEEL & MACHINE CO. ("Twin City"), Minneapolis, Minn. (See adv. index & branch offices, end of book)

Multicoil Co. (Marine Engines), 78 Broad, New York

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, Ohio

Nordberg Mfg. Co. (Independent, Jet & Surface), Milwaukee, Wis.

PLATT IRON WORKS CO. (Jet & Surface), Dayton, O. (See adv. index & branch offices, end of book)

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

Schutte & Koertling Co., 1251 N 12th, Philadelphia, Pa.

Scranton Steam Pump Co. (Jet Condensers & Pumps), Scranton, Pa.

Southwark Foundry & Machine Co. ("Weiss"), Philadelphia, Pa.

Stewart Heater Co., Buffalo, N. Y.

Thropp, Jno. E. Sons Co. (Surface), Trenton, N. J.

Unlque Engineering Co., 100 Hinsdale, Brooklyn, N. Y.

Warren Steam Pump Co., Warren, Mass.

Watson Machine Co. ("Couover"), Paterson, N. J.

WESTINGHOUSE MACHINE CO., Westinghouse bldg., Pittsburgh, Pa. (See adv. index, end of book)

Wheeler, C. H. Mfg. Co., Lehigh & N 18th, Phila., Pa.

Wheeler Condenser & Engineering Co. ("Volz," 146 Cedar, New York

Whitlock Mfg. Co., Hartford Conn.

Wood, R. D. & Co., 400 Chestnut, Philadelphia, Pa.

WORTHINGTON, HENRY F. (Jet, Self-Cooling Surface), 115 B'way, New York. (See adv. index & branch offices, end of book)

*Condensers (Steam Turbine)

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Condensers (Surface)

(See Condensers, Steam)

Condensers (Telephone)

Andrae, Julius & Sons Co., Milwaukee, Wis.

BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)

Central Tel. & Electric Co., St. Louis, Mo.

Electric Appliance Co. ("X-P"), 134 W Jackson boul, Chicago, Ill.

Kellogg Switchb'd & Supply Co., Chicago, Ill.

Sterling Electric Co., Lafayette, Ind.

Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.

Swedish-American Telephone Co., 1760 E Ravenswood Park, Chicago, Ill.

Vote-Berger Co., La Crosse, Wis.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Western Telephone Mfg. Co., 50 W Jackson, boul, Chicago, Ill.

Condensing Plants (Weiss Central)

Southwark Foundry & Machine Co., Passyunk Station, Phila., Pa.

Conductor Pipe & Eave Trough Mfrs.

AMERICAN ROLLING MILL CO. ("Polygon"), Middletown, O. (See adv. index, end of book)

Berger Bros. Co., 237 Arch, Phila., Pa.

BERGER MFG. CO., THE (Steed), Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)

BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)

Cambridge Roofing Co., Cambridge, O.

Canton Art Metal Co., Canton, O.

CANTON MFG. CO., Canton, O. (See adv. index & branch offices, end of book)

Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.

Clark, Quen & Morse, Peoria, Ill.

Coukluu Tin Plate & Metal Co., Atlanta & Savannah, Ga.

Dickelman Mfg. Co., Forest, O.

Dieckmann, Ferdinand, 1180 Harrison ave., Cincinnati, O.

EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O. (See adv. index, end of book)

Eiler Mfg. Co., Canton, O.

Excelsior Steel Furnace Co., 40 W Monroc, Chicago, Ill.

Fisher, W. Frank B. (Double Bead), 23 W College av, Springfield, O.

Garry Iron & Steel Co., Cleveland, O.

Goff, Horner & Co., Ltd., Frick Bldg., Pittsburgh, Pa.

Hazelton Sheet Steel Co., Commonwealth bldg., Phila., Pa.

HEARTLEY MACHINE, VARIETY IRON & Tool Works, Toledo, O. (See adv. index, end of book)

HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York

Hyndman Roofing Co., 318 E 2d, Cincinnati, O.

Indianapolis Corrugating Co., Indianapolis, Ind.

Kanneberg Roofing & Ceiling Co., Canton, O.

La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.

Lamb & Ritchie, Cambridgeport, Mass.

Learn & Brindle (Conductors Strainers, "The Ideal" Cut-Off), Columbus, O.

Lupton's, David Sons, E Allegheny av & Tulip, Phila., Pa.

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Meurer Bros. Co., 575 Flushing av, Brooklyn, N. Y.

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Moeschl-Edwards Corrugating Co., Covington, Ky.

New York Iron Roofing & Corrugating Co., 1st & Wash'n, Jersey City, N. J.

Niles Iron & Steel Roofing Co., Niles, O.

Obdyke, Benjamin P., 237 Broad, Phila., Pa.

Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.

Reeves Mfg. Co., Canal Dover, O.

St. John & Barquist, Des Moines, Iowa

St. Paul Roofing, Cornice and Ornament Co. ("Easy Bead"), St. Paul, Minn.

Schoedinger, F. O., 146 N. 3d, Columbus, O.

Scott Roofing & Mfg. Co., Parkersburg, W. Va.

Souther, E. E. Iron Co., St. Louis, Mo.

Sykes Steel Roofing Co., 611 S Morgan, Chicago, Ill.

Twitchell Iron Co., Kansas City, Mo.

VALLEY CORNICE & SLATE CO. Ltd., 314-318 N. Hamilton, Saginaw, W. S., Mich. (See adv. index, end of book)

Weyand, Henry Co. (Inc.), Waterbury, Conn.

Wheeling Corrugating Co., Wheeling, W. Va.

Whitacre, J. E. Mfg. Co., Rockford, Ill.

York Corrugating Co., York, Pa.

Conductors (Armored)

National Metal Moulding Co. ("Flexsteel"), Pittsburgh, Pa.

Safety Armorite Conduit Co., Pittsburgh, Pa.

Sprague Electric Co., 527 W 34th, New York

Standard Underground Cable Co., Pittsburgh, Pa.

*Conductors & Gutters (Cypress)

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Conduit Elbow Former

Wallace Supply Co., 23 S. Jefferson, Chicago, Ill.

Conduits (Cast Iron)

Davies & Thomas Co., Catsauqua, Pa.

Conduits (Flexible Metallic)

Franklin Railway Supply Co. ("McLaughlin," for Connecting between Engine & Tender in Place of Rubber Hose), Franklin, Pa.

Conduits (Interior)

Alphaduct Co. (Non Metallic Flexible), Jersey City, N. J.

American Circular Loom Co. ("Electroduct," Flexible), Boston, Mass.

American Conduit Mfg. Co., Pittsburgh, Pa.

Clifton Mfg. Co., Jamaica Plain, Boston, Mass.

Enamelled Metals Co. ("Pittsburg," Standard Enamelled Iron), Etua, Pa.

DELAWARE HARD FIBRE CO. (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)

DIAMOND STATE FIBRE CO. (Fibre), Elsmere, Del. (See adv. index, end of book)

Mark Mfg. Co. ("Navallite," Enamelled Iron Pipe), Evanston, Ill.
 National Metal Moulding Co. ("Sheraduct" & "Economy" Enamelled Iron; also "Flex-duct," Flexible), Pittsburgh, Pa.
 Protecus Electrical Mfg. Co. (Arthur P. Pier-son; "Verus" Flexible Fire & Water Proof), 23 N Juniper, Phila., Pa.
 Safety Armorite Conduit Co. ("Lopacted," "Galvaduct," "Armorduct," "Sterling," Iron, Armored, Flexible Metallic, etc.), Pittsburgh, Pa.
 Sprague Electric Co. ("Greenfield" Iron Arm-ored, Brass Armored, Flexible Steel & Un-armored), 527 W 34th, New York
 Western Conduit & Mfg. Co. (Steel Electrical), Chicago, Ill.
WILMINGTON FIBRE SPECIALTY CO. (Hard Fibre), Wilmington, Del. (See adv. index, end of book)

Conduits (Underground)

American Conduit Mfg. Co., Pittsburgh, Pa.
 American Conduit Co. (Bitumenized Fibre), Los Angeles, Cal., & 204 Dearborn, Chicago, Ill.
 American Creosoting Works (Creosoted for Wood), New Orleans, La.
 American Sewer Pipe Co. (Vitrified, Pitts-burg, Pa.
 American Stone Conduit Co., 18th & Lincoln, Chicago, Ill.
 American Vitrified Conduit Co. (Vitrified), B'way & 23d, New York
 Barnard, B. S., & Co. (Vitrified Clay), 39 Cortlandt, New York
BUNNELL, J. H., & CO., Park pl. & Church, New York. (See adv. index, end of book)
 Camp, H. B. Co. ("Camp-Duct"), Pittsburgh, Pa. Works: Aultman, O.
 Chattanooga Sewer Pipe & Fire Brick Co., (Clay), Chattanooga, Tenn.
 Clay Product Co. (Vitrified Fire-Clay), Brazil, Ind.
 Cunningham Iron Co. (Wrought Iron), Boston, Mass.
 Denny-Renton Clay & Coal Co. (Clay), Seattle, Wash.
 Des Moines Clay Mfg. Co., Des Moines, Iowa
 Dickey, W. S. Clay Mfg. Co. (Vitrified Salt Glazed), Kansas City, Mo.
 Dielectric Co. of America ("Dielectric" Sys-tem), Belleville, N. J.
 Drmmond, M. J. & Co. ("Shawmut" Vitrified), 182 B'way, New York
 Eppinger & Russell Co. ("Valentine" Creosoted Square Box Conduit), 165 B'way, New York
 Fibre Conduit Co. (Fibre), Orangeburg, N. Y.
 Gest, G. M. (Conduit Contractor), 277 B'way, New York
 Interstate Conduit & Brick Co. (Vitrified), Scranton, Pa.
 Johns, H. W.-Manville Co. ("Portland" Sec-tional Vitrified Tile), 100 William, New York
 Los Angeles Pressed Brick Co. (Salt Glazed), Los Angeles, Cal.
 McRoy Clay Works (Vitrified), Rookery, Chi-cago, Ill. Works: Brazil, Ind.
 Michigan Pipe Co. (Creosoted Wood), Bay City, Mich.
NATIONAL FIRE PROOFING CO. (Mason Terra Cotta), Pittsburgh, Pa. (See adv. index & branch offices, end of book)
 Norfolk Creosoting Co. (Creosoted Wood), Nor-folk, Va.
 Pittsburgh Sewer Pipe & Conduit Co. (Vitrif-ied Salt Glazed), Pittsburgh, Kan.
 Rochester Sewer Pipe Co. (Vitrified Clay), Ro-chester, N. Y.
 San Antonio Sewer Pipe Co., San Antonio, Tex.
 Shawmut Clay Mfg. Co. (See Drummond, M. J. & Co.)
 Standard Sewer Pipe Co. (Vitrified Clay), Ro-chester, N. Y.
 Standard Vitrified Conduit Co. (Vitrified Salt Glazed), 39 Cortlandt, New York
 Steiger Terra Cotta & Pottery Works, San Francisco, Cal.
TRUSSED CONCRETE-STEEL CO. Trussed Concrete Bldg., Detroit, Mich. (See adv. index & branch offices, end of book)
 Walworth & Neville Mfg. Co. (Creosoted Pipe), Heyworth bldg, Chicago, Ill., & Norfolk, Va.
 Wyckoff Pipe & Creosoting Co. (Creosoted Wood), 50 Church, New York. Works: Portsmouth, Va.

Cones (Blacksmiths')

(See Mandrills & Cones, Blacksmiths)

Cones (Friction)

(See Pulleys, Cone)

*Cones (Logging)

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York. & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Connections (Closet)

Atlas Brass Works ("Forster" Closet Waste), San Francisco, Cal.
 Blasler & Co., M. E., Utica, N. Y.
 Climax Specialty Co., Seneca Falls, N. Y.
 Frost Mfg. Co., Kenosha, Wis.

Connections (Rubber)

Morgan & Wright, Inc., Detroit, Mich.

Connections (Siamese)

Milwaukee Brass Mfg. Co. (With Automatic Valve, for Fire Sprinklers, Stand Pipes, Bath, etc.), Milwaukee, Wis.
 Standard Brass & Iron Works ("S. B. & I. Works" Double, Threeway, etc.), Mil-waukee, Wis.

Connections (Slip Joint)

Wolverine Brass Works, Grand Rapids, Mich.

Connectors (Battery)

American Electrical Novelty & Mfg. Co. ("Bull Dog"), 308 Hudson, New York
 Barcy & Nicholson, Detroit, Mich.
 Bliss-Chester Co. ("Duplex"), Providence, R. I.
 Briggs, W. H., Richmond Hill, Boro. of Kings, Browne, Wm. L., Worcester Mass. New York
 Cleveland Spark Plug Co., Cleveland, O.
 Eastern Carbon Works, Jersey City, N. J.
 Electric Motor & Equipment Co., Newark, N. J.
 Geen Electrical Mfg. Co. ("Genco"), 180 Lake, Chicago, Ill.
 Lombardi Machinery & Motor Co., Derby, Conn.
 Manhattan Electrical Supply Co. ("Mesco," "Sta-there"), 17 Park pl, New York
 Pierson & Dean Co. ("P.-D."), New Haven, Shain, Chas. D., 70 Murray, New York
 Stackpole Battery Co. ("Mills"), St. Marys, Pa.
 Tregoning Elec. Mfg. Co. ("Lobster-Claw"), Cleveland, O.

Connectors (Electric Train)

Loeffelholz Co. ("Gibbs"), Milwaukee, Wis.

Connectors (Hose)

(See Couplings, Hose)

Connectors (Sleeve Wire)

American Electric Fuse Co., Muskegon, Mich.
 Bryant Zinc Co. ("Premier"), 158 W Van Bur-en, Chicago, Ill.
 Chicago Die & Elec. Co. ("Max Stadt"), 64 Fulton, Chicago, Ill.
 Chicago Fuse Wire & Mfg. Co., 170 S Clinton, Chicago, Ill.
 Clark Elec. & Mfg. Co., 137 B'way, New York
 Cook, Frank B., 240 W Lake, Chicago, Ill.
 Harvard Elec. Co., 60 W Van Buren, Chicago, Ill.
 Holtzer-Cabot Elec. Co., Brookline, Mass.
 McIntire, C. Co., Newark, N. J.
 National Telephone Supply Co., Cleveland, O.

Connectors (Stage)

Scranton Button Co. (Electrold, Confined Line), Scranton, Pa.

Connectors (Trailer)

(For Car Lighting)

Central Union Brass Co. ("Wood"), St. Louis, Mo.
 Electric Specialty Co. ("Chicago"), 19 S Jeffer-son, Chicago, Ill.
 Garton, W. R. Co., 118 W Jackson, boul, Chi-cago, Ill.

Kingsland-Kay-Cook Mfg. Co., Mullanphy & 11th, St. Louis, Mo.
 Lang, J. Electric Co., 120 N Lincoln, Chicago, Ill.
 Ohio Brass Co. ("Emergency"), Mansfield, O.

Connectors (Trolley Wire)

Johns, H. W.-Manville Co., 100 William, New York
 Klsinger-Ison Co., 466 Pioneer, Cincinnati, O.
 Ohio Brass Co. ("Emergency"), Mansfield, O.
 Ridlon, Frank Co., Boston, Mass.

Connectors (Wire)

(Miscellaneous Wire Connectors)

Alpha & Omega Toggle Co., Chicago, Ill.
 American Cable Clip Co., 39 E 42d, New York
 American Electric Fuse Co. ("American"), Muskegon, Mich.
 Appleton Electric Co., 224 Washington, Chi-cago, Ill.
 Bliss-Chester Co. ("Duplex," Terminal), Provi-dence, R. I.
BUNNELL, J. H., & CO., Park pl. & Church, New York. (See adv. index, end of book)
 Connecticut Elec. Mfg. Co., Bantam, Conn.
 Fahnstock Electric Co. ("Fahnstock," Snap-over for Drop Wires), 129 Patchen av, Brooklyn, N. Y.
 Fairmount Electric & Mfg. Co. ("H. W. W."), Phila., Pa.
 Fort Dearborn Mfg. Co. ("Zeno"), 63 Crossing, Chicago, Ill.
 Harvard Elec. Co., 60 W Van Buren, Chicago, Ill.
 Jones & Gross Elec. Co., 62 Vesey, New York
 Manhattan Electric Supply Co., 17 Park pl., New York
MORSE, FRANK W. (Brass), 516 At-lantic av, Boston, Mass. (See adv. index, end of book)
 Menchen, Jos. Electrical Co., New York.
 Nagel-Collins Mfg. Co., 249 S Jefferson, Chi-cago, Ill.
 Ostrander, W. R. & Co., 22 Dey, New York
 Railway Specialty & Supply Co., Northern bldg, Chicago, Ill.
 Ridlon, Frank Co., Boston, Mass.
 Sibley & Pitman ("Climax"), New York
 Tower-Binford Elec. & Mfg. Co., Richmond, Va.
 Trumbull Electric Mfg. Co., Plainville, Conn., & New York City
 Waterbury Mfg. Co., Waterbury, Conn.
 Yonkers Specialty Co. ("New York"), Yonkers, N. Y.

Connectors (Wire Test)

American Electric Fuse Co. ("American"), Muskegon, Mich.
 Appleton Electric Co., 227 Washington, Chi-cago, Ill.
 Belden Mfg. Co., 194 Michigan av, Chicago, Ill.
 Chicago Brass Co. ("H. W. W."), 42 Madison, Cutter, Scott C., Oswego, Ill. Chicago, Ill.
 Fahnesock Electric Co. ("Snap Over"), 129 Patchen av., Brooklyn, N. Y.
 Frankel Display Fixture Co., 177 Hudson, New York
 Hallett Iron Works, 96 W Polk, Chicago, Ill.
 Harvard Electric Co., 60 W Van Buren, Chi-cago, Ill.
 Kierulff, B. F., Jr. & Co. ("Wardman"), Los Angeles, Cal.
 Railway Specialty & Supply Co., Northern bldg, Chicago, Ill.
 Williams Test Clamp C., Cleveland, O.
 Yonkers Specialty Co. ("New York"), Yon-kers, N. Y.

Continuous Rolling Mills

(See Rolling Mill Plants, Continuous)

*Contract Blanks (Architects' & Builders')

SOLTMANN, E. G.
 (Publisher of the A. I. A. Uniform Con-tracts & Uniform Sub-Contracts), 125 E 42d, New York. (See adv. index, end of book)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Contractors (Asphalt Paving)

(See also Contractors, General)

CALIFORNIA.

LOS ANGELES—Barber Asphalt Paving Co.
Densmore-Stabler Refining Co., 2474 E 9th
Fairchild-Gilmore-Wilton Co., Pacific Elec-
tric bldg
Schreier, C. & Co. (Inc.), 714 E 3d
OAKLAND—Oakland Paving Co.
Oakland Paving Co.
Piedmont Paving Co.
SAN FRANCISCO—Barber Asphalt Paving Co.
Street, etc.), 7th & Hooper
City Street Improvement Co., Merchants'
Exch bldg
Pioneer Asphaltum & Artificial Stone Pavement Co., 710 Montgomery
Standard Roofing Co., 365 McAllister

COLORADO.

DENVER—Barber Asphalt Paving Co., Quincy
bldg
Colorado Paving Co. (Street, etc.), Quincy
bldg
Western Realty & Paving Co. (Street, etc.),
Opera House bldg
PUEBLO—Standard Construction Co., Board of
Trade bldg

CONNECTICUT.

BRIDGEPORT—Bullard, W. S., 636 Water
Burns Co., 83 Fairfield & 400 Lindley
Silliman & Godfrey Co. (Street, etc.), 1119
BRISTOL—Pierson, Martin E. Broad
HARTFORD—Hartford Paving & Construction
Co., 703 Main
Watson, Alex., 283 Sheldon
NAUGATUCK—Dunn, Jer. H., 180 Church
NEW HAVEN—City Point Concrete Co.
Connecticut Concrete Co., 37 Church
Coyne Bros. Concrete Co., 250 Blatchley av
Humphrey, Jno., 33 Pine
Wartmann, Robert E., 22 Pond
WATERBURY—Byrne, C. R. A.
Excelsior Concrete Co., 17 Baldwin av
McGrath & Sons, 26 Magill

DELAWARE.

WILMINGTON—Acme Asphalt Co. (of Dela-
ware)

DISTRICT OF COLUMBIA.

WASHINGTON—Brennan Construction Co.
Coiburn Bros., Colorado bldg
Cranford Paving Co., 2620 E. N W
Washington Asphalt Block & Tile Co., S
Capitol & R, S E

GEORGIA.

ATLANTA—Murphy, C. P. & Son, 6 N Forsyth
Southern Roofing Co. (Asphalt Floors)

ILLINOIS.

AURORA—Saifisberg, J. E. & Co.
CHICAGO—Barber Asphalt Paving Co. (Street,
etc.), Stock Exch bldg
Blome, R. S., Unity bldg
Consolidated Portland Cement Co., 6022
S. Morgan
Conway, R. F. Co. (Street, etc.), Chamber
of Commerce bldg
Dolese Bros. Co., 78 LaSalle
Fulton, J. L. & Co., Monadnock bldg
Hoefter & Co., Chamber of Commerce bldg
MacArthur Bros. Co. (Street, etc.), Fisher
bldg
Parker-Washington Co., Chamber of Com.
Perkins, E. B., 663 Flournoy bldg
Sackley, Jas. A. Co., Chamber of Commerce
bldg
Schillinger Bros. Co., 1181 N Seeley av
Simpson Construction Co. (Street, etc.),
Chamber of Commerce bldg
Smith & Brown, 78 LaSalle
Wheeler, W. W. & Co., 154 W Washington
Witt, Aug., Security bldg
HOMER—Farley, Jas. J. & Co.
PEORIA—Janssen, G. & Sons, 230 Dechman av

INDIANA.

EVANSVILLE—Anchor Roofing & Paving Co.
FORT WAYNE—Fort Wayne Roofing & Paving
Co.
INDIANAPOLIS—Capitol Paving & Construc-
tion Co., 601 Traction Terminal bldg
Granite Bituminous Paving Co., American
Central Life bldg

Hoosier Construction Co., American Central
Smither, Henry C., 330 S Penn Life bldg
Symmes, H. H. Co., 45 Kentucky av
LAFAYETTE—Western Construction Co.
(Street, etc.)

IOWA.

DUBUQUE—Key City Roofing Co.
GRINNELL—Spencer, John A.
SIOUX CITY—Houx, Frank T. Co.

KENTUCKY.

LOUISVILLE—American Standard Asphalt Co.
(Street, etc.), 1st & A
Barber Asphalt Paving Co. (Street, etc.),
347 5th
National Roofing & Supply Co., 140 Main
National Rock Asphalt Co., Columbia bldg
Southern Roofing & Paving Co., 1006 W
Main

LOUISIANA.

NEW ORLEANS—Barber Asphalt Paving Co.
(Street, etc.), 205 Chartres
Calongne & Sargent, Hibernia Bank bldg
Catrano, Jno., 1022 Toulouse
Chevalier, A. Pavement Co. (Street, etc.),
Fath, Philip, 452 6th 523 St. Louis
Jahncke Navigation & Improvement Co.
(Schillinger's), 816 Howard av
Louisiana Improvement Co., Hennen bldg
Sicilian Asphalt Paving & Construction Co.,
312 Gravier
Southern Bituminous Co., Hibernia Bank bldg

MARYLAND.

BALTIMORE—Filbert Paving & Construction
Co. (Street, etc.), 1210 Block
Maryland Pavement Co. (Street, etc.), 6 E
Lexington
Thormann, Jno. H. & Co., 12 McClellan

MASSACHUSETTS.

BOSTON—Boston Asphalt Co. (Street, etc.),
54 Kilby
Dolloff, C. W. & Co., 20 Central
Gore, J. Thomas, 54 Kilby
Harris, Chas., 70 Kilby
Hind, Thos. J., 45 Commercial Wharf.
Jones & Meehan, 10 Tremont
Libby, A. A. Sons Co., 161 Devonshire
Murtfeldt, W. A. Co., 161 Devonshire
Simpson Bros.' Corporation, 166 Devonshire
Taylor, E. R. Co., 164 Federal
Warren Bros. Co. (Street, etc.), 93 Federal
FALL RIVER—Archard, Richard J., 60 Murray
Burrows, Alexander, 1098 N Main
Williston, Chas. H., 171 Pleasant
Williston, Fred. A., 289 Central
LOWELL—Smith, E. A. & A. T.
PITTSFIELD—Healey, Thos. J. (Floors, etc.)
TAUNTON—Black, Wm. R., 32 Union
WEST MEDFORD—Bragdon, Louis G.
WORCESTER—Carr, Geo. W. Co., 518 Main
Jenks, H. L. & Son, 17 Freeland
Williams, A. C., 12 Shaffner

MICHIGAN.

DETROIT—Scharf, R. W., 90 Linwood av.
Schillinger Bros. Co., Illinois & Dequintre

MINNESOTA.

MINNEAPOLIS—Barber Asphalt Paving Co.
(Street, etc.)
Crittenden Roofing & Mfg. Co., 918 S 4th

MISSOURI.

KANSAS CITY—Barber Asphalt Paving Co.
(Street, etc.), Colonial Security bldg
Boyd, R. J. & W. M. Construction Co.,
Edwards, W. M., Mass bldg Heist bldg
Middleton & Son Construction Co.
Parker-Washington Co., 2309 Penn av
ST. LOUIS—Barber Asphalt Paving Co.
(Street, etc.), 721 Olive
Fehlig, J. Frank, 3500 Hickory
Fruin-Bambrick Construction Co., Chemical
bldg
Glisonite Construction Co. (Street, etc.),
721 Wainwright bldg
Gilsonite Roofing & Paving Co., 721 Olive
Heman Construction Co., Fullerton bldg
Hill-O'Meara Construction Co., 915 Olive
Rowland, Jos. H. Granitoid Cons. Co., 106
N 9th
Trinidad Asphalt Mfg. Co., 320 S 21st
Voigt, August, 1806 Dolman

NEBRASKA.

OMAHA—Barber Asphalt Paving Co. (Street,
Grant Paving Co. etc.), Bee bldg
Murphy, Hugh, Bee bldg
National Roofing Co., Ware blk

NEW HAMPSHIRE.

MANCHESTER—Robie Concrete Co., 936 Elm
NASHUA—Nashua Concrete Co.
Osgood Construction Co.
Tardif & Bellavance

NEW JERSEY.

HARRISON—Metropolitan Asphalt Paving Co.
JERSEY CITY—Commonwealth Roofing Co.,
Grove c 19th
Uvaide Asphalt Paving Co., 2 Greene
MAURER—Barber Asphalt Paving Co. (Street,
etc.)
NEWARK—Barber Asphalt Paving Co. (Street,
etc.), 141 Halsey
Burnett Asphalt Co., 87 James
Commonwealth Roofing Co., 22 Clinton
Empire Asphalt Co. (Street), 763 Broad
Essex County Cons. Co., 128 Market
Hetzel, J. G. (Est. of) (Floors, etc.), 67
Standard Paving Co., 45 Clinton Main

NEW YORK.

ALBANY—Davenport, S. J. & Co., Tweddle
Macuee & Rabe, 659 B'way bldg
BUFFALO—Barber Asphalt Co. (Street, etc.),
880 Ellcott sq
Burgard, Henry P. Co. (Street, etc.), 275
Lathrop
Climax Paving Co., 74 Riverside av
Crescent Pavement Co., Erie Co. B'k bldg
German Rock Asphalt & Cement Co. (Street,
etc.), D. S. Morgan bldg
Gipp, L. H., 531 Ellcott sq
Wisdom Paving Co., 7th c Wilkeson
ELMIRA—Costello & Neagle
HASTINGS—Hastings Pavement Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Cranford Co., 52 9th
Eastern Bermudez Asphalt Paving Co., 26
Interstate Paving Co., 44 Court Court
Mock, Isidor, 87 Debevoise
Thomas, W. H. & Bro., 26 Court
Uvalde Asphalt Paving Co., 26 Court

Boroughs of Manhattan & Bronx.

NEW YORK—Asphalt Construction Co., Mad-
ison av. & 137th
Barber Asphalt Paving Co. (Street, etc.),
30 Church
Commonwealth Roofing Co. (Asphalt Floors
& Watertight Cellars), 17 Battery pl
Continental Asphalt Paving Co. (Street,
Denton & Co., 42 E 23d etc.), 79 Wall
Hastings Pavement Co., 25 Broad
MacArthur Bros. Co., 11 Pine
Naughton & Co., 299 B'way
Neuchatel Asphalt Co. (Ltd.), 265 B'way
New T. Construction Co., 520 W 29th
†Sicilian Asphalt Paving Co. (Street, etc.),
41 Park row
Union Construction & Waterproofing Co.,
1133 B'way
Uvalde Asphalt Co. (Street, etc.), 1 B'way
Vulcanite Paving Co., 1170 Broadway
Warren Bros. Co. (Street, etc.), 253 B'way
Warner-Quinlan Asphalt Co. (Street, etc.),
79 Wall

Borough of Queens.

LONG ISLAND CITY—Barber Asphalt Co.
(Street, etc.), 6th & West av
(End of New York City)
PEEKSKILL—Smith, John, Jr.
ROCHESTER—Oliver, Horace T., 328 South av
Rochester Vulcanite Pavement Co., Alex-
ander c Erie Canal
Rock Asphalt Pavement Co., 279 South av
Warren Chemical & Mfg. Co., 49 West av
SYRACUSE—Artificial Paving Co., 1101 N
State
Ballard, Stephen G., 1528 S Salina
Central City Paving Co., Kirk bldg
Central City Roofing Co., Canal c Catharine
Jaynes, Jas., 609 Midland av
Schlosser, Geo., 520 Carbon
Syracuse Improvement Co., 438 S Salina
Talbot, Thos. & Son, 240 W Water
Warner-Quinlan Asphalt Co., 438 S Salina
Whittle, Thos. E., 405 Burnet av

TROY—Hannon, Geo., 306 3d
 UTICA—Barber Asphalt Paving Co. (Street, etc.), 131 Broad
 Commonwealth Roofing Co., Clarendon bldg
 WATERTOWN—Brennan & O'Brien
 Jones, W. C., 22 Stone
 YONKERS—Pawson, J. E., ft Wells av

OHIO.

AKRON—Acme Paving & Plaster Co.
 CINCINNATI—Barber Asphalt Paving Co. (Street, etc.), First Nat'l B'k bldg
 Kuhl, Chas. Artificial Stone Co., 603 Reading rd
 Maescher, Chas. V. & Co., 619 Reading rd
 CLEVELAND—Byerly & Sons, 2484 West 4th
 Clements Bros. Constr. Co., 230 Colonial Arcade
 Cleveland Trinidad Paving Co. (Street, etc.), 420 Lakeside av. N E
 Roehle Bros., United Bank bldg
 COLUMBUS—Acme Paving Co., 403 W State
 Capitol Asphalt Mastic Co., 268 Spruce
 Pugh, Andrew G., Union Nat'l B'k bldg
 COSHOCTON—Schraake, G. W.
 DAYTON—Conley, Jas. E., Conover bldg
 Dayton Asphalt Roofing & Paving Co., 16 S. Canal
 HAMILTON—Andrews Asphalt Paving Co.
 TOLEDO—Leith, John J., 2225 Franklin av
 Schllinger Bros. Co., 215 City Park av,
 YOUNGSTOWN—Chambers, J. B.
 Davis & Caldwell
 Joyce, M. J.

OKLAHOMA

OKLAHOMA—Barber Asphalt Paving Co. (Street, etc.), Box 966

OREGON.

PORTLAND—Marshall Bros., Chamber of Commerce bldg
 Trinidad Asphalt Paving Co., Worcester blk
 Warren Const. Co., Oregonian bldg

PENNSYLVANIA.

ERIE—Mayer Bros.
 HARRISBURG—Galbraith, B. G.
 LANCASTER—Fritchey, J. U. & Son
 Lancaster Cement & Paving Co.
 PHILADELPHIA—Asphalt & Concrete Paving Co., 227 S 9th
 Barber Asphalt Paving Co. (Street, etc.), Land Title bldg
 Block & Tile Paving Co., Harrison bldg
 Columbia Artificial Stone Paving Co., 205 N 20th
 Dreihmann Paving Co., 2631 Parrish
 Filbert Paving & Construction Co., Penna bldg
 Galbraith Paving Co., 3421 N 12th
 Gerhardt, Fred'k, German-American bldg, 7034 Oxford rd., Lawndale
 Granitoid Paving & Construction Co., Heed
 Lehigh Paving Co., 708 Cambria bldg.
 Petrific Paving & Roofing Co., 3345 Market
 Quaker City Paving Co., 45 N 13th ket
 Schwartz, Jacob, 2308 N 27th
 Shields, W. S. P., Asphalt Co., Witherspoon bldg
 Vulcanite Paving Co., Land Title bldg
 Wallace, R. Bruce & Co., Drexel bldg
 PITTSBURG—Atlas Construction Co., 309 4th
 Booth & Flinn, 1942 Forbes av
 Globe Asphalt Co. ("Obispo Brand"), Bake-well bldg
 Peabody & Filbert Co., 6812 Hamilton av
 Wadsworth Stone & Paving Co., Bessemer bldg
 SCRANTON—Barber Asphalt Paving Co.
 Dunn, Benjamin F. (Street, etc.)

RHODE ISLAND.

PROVIDENCE—Narragansett Improvement Co. (Street, etc.), 122 Public
 WESTERLY—Westerly Concrete Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Roofing & Foundry Co., 720 E Montgomery av
 MEMPHIS—Bartholomew Roofing Co., 164 S. 2d
 Memphis Asphalt & Paving Co. (Street, etc.)
 Miller, Chas. R. Paving Co., S N Front
 Miller Paving Co., 649 Beale av
 NASHVILLE—Nashville Roofing & Paving Co.

TEXAS.

CLINE—Uvalde Asphalt Co.
 DALLAS—Barber Asphalt Paving Co. (Street, etc.)
 Watson, Alex.
 GALVESTON—Elder, L. B., 212 Tremont
 Henchman, Geo. H., Mercantile & Roofing Co., 2410 Mechanic

UTAH.

OGDEN—Parry, Jos., 1743 W Wash'n av
 SALT LAKE CITY—Barber Asphalt Paving Co. (Street, etc.)

VERMONT.

BURLINGTON—Moore, Eugene F., 63 Greene

VIRGINIA.

NEWPORT NEWS—Via, Geo. E.
 Wallace, A. D.
 RICHMOND—Armitage Mfg. Co., 3200 Williamsburg av
 Veitch, W. P., 214 S 6th
 VIRGINIA—Carolina Construction Co.

WASHINGTON.

SEATTLE—Barber Asphalt Paving Co. (Street, etc.), Mutual Life bldg
 Barnes & Carkeek, 427 E Denny way
 Stanley, Wm. & Co., Burke bldg
 SPOKANE—Barber Asphalt Paving Co. (Street, etc.)

WEST VIRGINIA.

WHEELING—McGinley & Holmes

WISCONSIN.

LA CROSSE—Marden, J. H. Cement & Paving Co.
 MILWAUKEE—Monsted, A. & Co., Pabst bldg
 Winding & Gezelschap, Pabst bldg
 OSHKOSH—Fluor, Caspar
 SHEBOYGAN—Ackerman, Christ.

Contractors (Building)

(See Builders, Contracting; also Contractors, General)

Contractors (Dredging)

ALABAMA.

MOBILE—Alabama Dredging & Jetty Co.
 Moore, R. & Co.
 National Dredging Co.

CALIFORNIA.

LOS ANGELES—Empire Construction Co.
 OAKLAND—Veitch, W. T. & Bro.
 SAN FRANCISCO—American Dredging Co., 6 East
 Atlantic Gulf & Pacific Co., Monadnock bldg
 Bay & River Dredging Co., 604 Mission
 North American Dredging Co., Merchants' Exch bldg
 Pacific Coast Dredging & Reclamation Co.
 San Francisco Bridge Co., Monadnock bldg
 STEWART, JAS. & CO., 709 Mission
 U. S. Dredging Co., 237 1st

COLORADO.

DENVER — STEWART, JAS. & CO., Century bldg

CONNECTICUT.

NEW LONDON—Scott, Thomas A. Co.

DELAWARE.

WILMINGTON—National Dredging Co., 6 W
 Standard Dredging Co.
 Wilmington Dredging Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Columbia National Sand Dredging Co., 3036 K. N W
 Potomac Dredging Co.

GEORGIA.

SAVANNAH—Cunningham, W., Sorrel bldg
 Georgia Dredging Co., German Bank bldg
 Ross, P. Sanford, 16 Bryan, E

ILLINOIS.

CHAMPAIGN—Pollard, Goff & Co. (Inc.)
 CHICAGO—Fitzsimmons & Connell Co., Tacoma bldg
 Great Lakes Dredge & Dock Co., Chamber of Commerce bldg
 STEWART, JAS. & CO., Fisher bldg

INDIANA.

MADISON—Kirk, Wm.

LOUISIANA.

NEW ORLEANS—Jahncke Navigation & Improvement Co., 816 Howard av
 STEWART, JAS. & CO., Hibernia Bank bldg

MAINE.

PORTLAND—Eastern Dredging Co., 50 Exchange

MARYLAND.

BALTIMORE—Furst-Clark Dredging Co., Fidelity bldg
 Maryland Dredging & Contracting Co., Fidelity bldg
 Risley Co., Bush c Severn
 Sanford & Brooks, 15 South

MASSACHUSETTS.

BOSTON—Bay State Dredging Co., 185 Summer
 Eastern Dredging Co., 247 Atlantic av
 Letteney, John H., 101 Tremont
 Townsend, Geo. W., 202 Atlantic av

MICHIGAN.

BENTON HARBOR—Bakeman, Geo. F.
 Mills, G. A., & Son.
 DETROIT—Detroit Dredging Co., Moffat bldg
 Griffin, M. J., 169 Stanton av
 Schweikart Dredging Co., 1922 Jefferson av
 HOUGHTON—Pryor, Jas., & Son.
 PORT HURON—Mulr-O'Sullivan Dredge & Dock Co.
 SAGINAW—Hubbell, H. W. & Co., 700 N Hamilton
 SAULT SAINT MARIE—Edwards Bros. Dredge Co.
 Great Lakes Dredge & Dock Co.
 Hickler Bros.

MINNESOTA.

DULUTH—Duluth-Superior Dredging Co., ft 6th av, W
 Great Lakes Dredge & Dock Co.
 ST. PAUL—Butler Bros., New York Life bldg

MISSOURI.

ST. LOUIS—Fruin-Bambrick Construction Co., Chemical bldg
 STEWART, JAS. & CO., New Nat'l Bank of Commerce bldg
 NEW JERSEY.

BAYONNE—Packard, R. G. Co., ft 28th
 CAMDEN—Am. Dredging Co., ft Pine
 Bowers Hydraulic Dredging Co. (Inc.), 104 Market
 Penna. Dredging Co.
 JERSEY CITY—McSpirit, Joseph A., 118 Wayne
 Ross, P. Sanford, 277 Wash'n
 Stillman, F. M. Co., 26 Exchange pl
 U. S. Dredging & Cons. Co., 1 Montgomery
 PATERSON—Lee, John R., 2d Nat'l B'k bldg

NEW YORK.

BUFFALO—Buffalo Dredging Co., D. S. Morgan bldg
 Lake Erie Dredging Co., D. S. Morgan bldg

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Beard, W. H. Dredging Co., Long Dock, Erie Basin
 Gahagan, Walter H., 189 Montague

Boroughs of Manhattan & Bronx.

NEW YORK—Atlantic Dredging Co., 15 Whitehall
 Atlantic Gulf & Pacific Co., Park Row bldg
 Beard, W. H. Dredging Co., 21 State
 Brown & Fleming Cont. Co., 59 Pearl
 Columbia Dredging Co., 68 Broad
 Du Bois Bros. Dredging Co., 19 Whitehall
 Du Bois, Henry, Sons' Co., 17 State
 Empire Eng. Corporation, 71 B'way
 Hayward, C., 50 Church
 International Contracting Co., 17 Battery pl
 Interstate Dredging Co., 17 Battery pl
 Metropolitan Dredging Co., 15 Broad
 Monks, John & Sons, 82 Beaver
 Morris & Cumings Dredging Co., 17 State
 North American Dredging Co., 15 Park row
 Packard, R. G. Co., 130 Pearl
 Seely-Taylor Co., 78 Broad

Spearin & Preston, 90 West
Steers, Henry (Inc.), 17 Battery pl
STEWART, JAS. & CO., 30 Church
Taylor Dredging Co., 21 State

(End of New York City)

ROCHESTER—Brayer & Albaugh, 27 E Main

OHIO.

CINCINNATI—Sheridan-Kirk Contract Co.
Strack, Thomas P., Goodall Bldg.
CLEVELAND—American Construction Co.,
Rockefeller bldg
Central Dredging Co., Commercial B'k bldg
Great Lakes Dredge & Dock Co., William-
son bldg
Standard Contracting Co., Wade bldg
Strong, C. H. & Son, Cuyahoga bldg
TOLEDO—Bodette, Edward, 704 Boalt
Breyman, Geo. H. & Bros., Marine bldg
Great Lakes Dredge & Dock Co., The
Thacher, A. Q. & Co., Marine bldg Spitzer

OREGON.

PORTLAND—Columbia Digger Co., Sherlock
bldg

PENNSYLVANIA.

CHESTER—Williams, Capt. Jno.
PHILADELPHIA—American Dredging Co.,
Mariner & Merchant bldg
Atlantic Dredging Co., Girard Trust bldg
Drake & Stratton Co., West End Tr. bldg
Fouder, Edward F. Co., Land Title bldg
Rickards Dredging Co., Girard bldg
National Dredging & Lighterage Co., Arcade
bldg

River & Harbor Improvement Co., Mariner
& Merchant bldg
PITTSBURG—Drake & Stratton Co., Farmers'
Bank bldg

Enterprise Contracting Co., Fulton bldg
Monongahela & Western Dredging Co., Con-
estoga bldg

Pittsburg Dredging & Construction Co.,
Hartje bldg

STEWART, JAS. & CO., Westing-
house bldg

RHODE ISLAND.

PROVIDENCE—Packard, J. S. Dredging Co.,
31 Market sq
Shaw, Fred'k E., 75 Westminster

TENNESSEE.

MEMPHIS—Kavanaugh Sand Co., 20 Madison

TEXAS.

GALVESTON—Bowers Southern Dredging Co.
Clarke, Charles & Co.

VIRGINIA.

BERKLEY—French, William H.
NORFOLK—Coastwise Dredging Co.
Norfolk Dredging Co., 217 Water

WASHINGTON.

SEATTLE—International Contract Co. New
York blk
Puget Sound Bridge & Dredging Co. (Hy-
draulic), 95 Yesler Wa

TACOMA—Northwest Bridge Co., California
bldg

Tacoma Dredging Co., California bldg

WISCONSIN.

MILWAUKEE—Hathaway, J. E. & Co., Canal
& 1st av
Lake Michigan Dredge & Dock Co., 204
Grand av

Starke, C. H. Dredge & Dock Co., Canal &
Menomonie

OCONOMOWOC—Johnson & Tweeden
SUPERIOR—Whitney Bros.
Whitney Bros.

Contractors (Electric Railway)

(See Names in Contractors, General, Marked
with a (†) Dagger)

Contractors (Electric Subway)

Commercial Construction Co., 114 E 28th, New
York
Crosby, C. H. Co., 170 Summer, Boston, Mass.
Kohler Bros., Fisher bldg, Chicago, Ill.
National Conduit & Cable Co., Times bldg,
New York

Regan, D. P., 4402 Chestnut, Phila., Pa.
Saxton, E., 841 Bladensburg rd, Washington,
D. C.
Union Electric Construction Co., Bourse bldg,
Phila., Pa.
United Engineering & Contracting Co., 32 E
33d, New York

Contractors (General)

(This list includes General Contractors in all
towns with a population of over 5,000)

(See also Contractors, Builders)

(Star (*) indicates Railroad Contractors. Dag-
ger (†) indicates Electric Railway Con-
tractors)

ALABAMA.

BIRMINGHAM—*Brewer & Jones.
*Dunn & Lallande Bros. (R. R. & Sewer &
Public), Cobbs & Mayberry bldg
Evans Bros. Construction Co. (General),
2231 1st av
Jefferson Contracting Co., 2228 Av A
Stockmar, Henry A., 2200 Av A
Thompson, T. C. & Bros., Title Guarantee
MOBILE—Fonde, Ray, 160 N Royal bldg
Jett Bros. Contracting Co., 306 S Water
MONTGOMERY—Cook & Laurie Contracting
Hugger Bros. Co.

ARKANSAS.

LITTLE ROCK—Dalhoff Construction Co.
McCoppin, Jos. (Sewer, etc.)

CALIFORNIA.

BERKELEY—Contra Costa Cons. Co. Grading,
etc.)
Esterly Construction Co. (Grading, etc.)

FRESNO—Warswick Street Paving Co.
GRASS ALLEY—Body, W. C. D., & Bro.
LOS ANGELES—Alexander, C. A. (General)
Alpeter, Hall & Alpeter (General), Henne
bldg

*Alsop Engineering & Construction Co.
(Sewer, Water & Irrigation Systems)

Atkinson, J. F. (General), Byrne bldg
Bent, Arthur (Sewer), 235 S Los Angeles
Beyrle, Robert (General), Helman bldg
*Bright & Drew, 206 S Spring
Butler, Orlando W., 145 S B'way

California Construction Co. (Breakwaters,
General & Quarrymen), 324 E Market
Casey-Judge Construction Co., 106 W 3d
Clampitt, E. A. & Co., 200 Lake Shore
Olement, H. & Co., 2142 Bay av

*Coleman, R. R., 124 W 6th
Crandall, W. N. (General), Stimson bldg
Daniels, J. A., 1626 Palo Alto
Donovan-Bourland Co. (Grading, etc.),
Wilcox bldg

Doran, Brouse & Price (Oil Well), 207 S
B'way

Dougan, Gringham & Co., 333 N Main
Empire Construction Co. (Ditching, Dredg-
ing, etc.)

Engstrum, F. O. Co. (General), E 5th &
Colyton

Fairchild-Gilmore-Wilton Co. (Paving, etc.),
Pacific Electric bldg

Fife & White (General), 207 S B'way
Ford, B. F. (Grading), Copp bldg
French, J. T. (Grading), Bryson bldg

*Grant Bros. Construction Co., Trust
bldg

Griffith, Elijah (Builder & General), Courier
bldg

Groat, C. E. (Excavating, Grading, etc.),
Amer. National Bank bldg

Hall Construction Co. (Grading, Excavating,
Sewer, etc.), H. W. Hellman bldg

Hartman-Kemper Const. Co., 224 S Spring
Hein, J. & Co. (Excavating, Grading, etc.),
Copp bldg

Hickcox & Martin (General), Merchants
Trust bldg

Hinsdale, F. D. Co. (Grading, etc.), 122
W 3d

Howard, P. A. & C. H. (Grading), Frost
bldg

Jones & Slayden (Grading, Excavating, etc.)
Klarquist, J. A., 106 W 3d
Kubach, C. J. Co., Pacific Electric bldg

Lawton, Frank, 314 W 4th
Leonardt, Carl.

Little, W. J., Mason Opera House
McClure, Simpson (Grading), 218 S B'way
McDonald, C. F., Byrne bldg
McGuire, H. J. (Grading), Copp bldg
Maechtlen & Rice (Grading, etc.), 212 W
3d

*Occidental Construction Co., 124 W. 6th

Peasley, Wm. K. (Grading), Wilcox bldg
Ramish & Marsh (General), Wilson bldg
Richards-Neustadt Const. Co., 256 S Spring
Seelye, Orlando L., 106 S 3d
*Sharp-Hauser Contracting Co., Germain
bldg

Sheldon, Melville (Grading, etc.), H. W.
Hellman bldg

*Scherer, Rob't & Co., 608 S Main
Stansbury, Chas., Fay bldg
Stansbury & Powell (Sewer & Grading),
Copp bldg

Tryon & Brain (Excavating), Merchants
Trust Co. bldg

Ware, J. B. & Son, Frost bldg
Western Coast Construction Co. (Grading,
etc.), 315 S B'way

Western Construction Co., 408 S Spring
Whittier, F. W. & Co. (Grading, etc.),
218 S B'way

Wise, L. N. (Grading, etc.), 213 S B'way
Bank bldg
Yard & Hichborn (General Building Con-
struction, etc.)

OAKLAND—Burrell Construction Co., Central
Bank bldg

Cavanagh, E. (Sewer & Public), 1408 Tel
Concannon, William N., 490 Orchard av
Cotton Bros. & Co. (Bridge & Public),
Hutchinson Co. (Paving, etc.), 401 14th

Ilma, Louis & Co. (Sewer, etc.), 34 Tele-
graph av

Ransome Construction Co., 1216 B'way
Stone, E. B. & A. L. Co. (General), 900
B'way

Velitch, W. T. & Bro., 1166 Webster
Vincent, C. D. (Sewer, etc), 75 Montecito

PASADENA—Blow Construction Co.
Slavin, M.

RIVERSIDE—Wilcox-Rose Construction Co.
SACRAMENTO—Muddox, G. L. (Sewer, etc.)
Siller Bros.

SAN DIEGO—Goodbody, Michael (Grading, Ex-
cavating, etc.)
Nelson, Olof (Street Grading, Excavating,
etc.)

SAN FRANCISCO—Allen Bros. & Townsend,
640 Kearny
American-Pacific Construction Co., Pacific
bldg

Anderson, W. W., Monadnock bldg
Atlantic Gulf & Pacific Co. (Engineers &
General), Monadnock bldg

Atlas Grading & Construction Co. (Grad-
ing), 95 Market

B. & W. Engineering Co., 127 Mtgy.
Bause, A. W., & Co., 277 Devisadero
Bauman, J. A., & Co., Williams bldg

Bay & River Dredging Co. (Dredging), 604
Bibb, D. H., 95 Market Mission

Blanchard Brown Co., 1435 48th av
Brown, D. E., 268 Market

Brown, T. S. Cons. Co. (Inc.) Masonry, Re-
inforced Concrete (Buildings, etc.)

Butler, Thos., Custom House
Butterworth Co., 850 Treat av

Button, I. V., 533 14th
California Contracting Co., Crocker bldg

Campbell, Jas. (General), Chronicle bldg
Carnahan, E. E., & Co., Pacific bldg

Carter, F., & Co., Williams bldg
Cassarotto, John, 3d & Channel
Chadwick & Sykes (Inc.), Crocker bldg

Chick, Edward A., & Co., 2060 Market
*City Construction Co. (Railroad, Tun-
nel, Ditching, etc.), Lick bldg.

†City Street Improvement Co. (Street, Elec-
tric Railroad, etc.), Mercantile Ex bldg

Coast Improvement Co., 18 Shotwell
Coast States Construction Co., 503 Market

Concannon, Wm. N., Co., 112 Market
Condon, McGlyn Co. (The), 789 Mission

Consani & Massagli, Turk & Masonic avs.
Corwin & Fitzpatrick (General), Lick bldg.

Days, Thos. H., & Sons, Monadnock bldg
Delaney & Randlett, 193 Jessie

Demattell, G. B., & Co., 225 Point Lobos
Demattell, L., & Co. (Grading), 8 Avery

Dibert, L. C., Co., 400 7th av
Diver & Lewis, 24 Oak Grove av.

Dowling, J. A., Russ bldg
Downey, John, 2910 25th
Dreyfus Bros., 339 Montgomery

Empire Construction Co., 787 Market
Fay, Charles W., Mutual Sav. Bk. bldg
Fay, Stanley J., Mutual Sav. Bk. bldg

Fennell Bros., Chronicle bldg
Flinch, Chas. M., Monadnock bldg
Fisher, M., Co., Pacific bldg
Franks, J. C. (Dredging), Grant bldg
Fuller, George A. Co. (Builders, etc.),
Monadnock bldg

Gale, M. F., & Son., 185 Stevenson
Gartland, P. J., 3379 16th

Giannone, A. & Co. (Grading), Turk & Gilbreth, Frank B., 16 Cal. Masonic
Gnecco, M., & Co., 36 Wood
Gompertz, Chas. W., 120 Bush
Greely, Jno. (Grading), 326 8th av
Greenfeld, A., 27 3d
Gutleben Bros., Monadnock bldg
Hageman Contracting Co., 4th & Illinois
Hampton, Richey Co., Monadnock bldg
Hannah, J. D., 614 B O'Farrell
Harney Bros., 3619 18th
Harney, J. G. (Street), Pacific bldg
Harris, H., 724 Gough
Harrelson-Grau Co., Union Trust bldg
Healy-Tibbitts Construction Co. (Excavating, Fireproof Construction, etc.), 268
Helbing, Wm., 1420 Market Market
Hicks, Lewis, & Co., Humboldt Bk bldg
Hinchman, Clement Co. (Inc.), The, 26 Montgomery
*Hyde, Harjes & Co. (Bridges, etc.), 112 Market
Ince, John C., Construction Co. (Heavy Masonry, Mill Construction, etc.)
Iron & Steel Contracting Co. (Iron & Steel), 217 So. Bruno av
Jones, Wm. G., 900 Sutter
Karp, Henry, 711 Valencia
Kehrlin-Swinerton Construction Co., 8th & Kerr & Monroe, 412 Grant av Howard
Kittle Construction Co. (General Concrete Construction, etc.), Balboa bldg
Klenck & Zacharias, Monadnock bldg
Klyce, Harvey A., Monadnock bldg
Kruttschnitt-Woods Co., Monadnock bldg
Land & Nugent, 2165 Market
Lavanway & Malloy, 116 California
*Layden, Darby (Bridge & Dock, Sewer, etc.), 219 Stewart
Lennon, J. E., 362 Church
Lilley, Thurston Co. (The), 82 2d
Long & Hoyt Co. (Builders & General)
McCarthy-Corcoran Co., 15 2d
McClough Contracting Co., 2023 Market
McEachern & Chipchase, 309 7th
McFadden, P., 36 Potrero
McGinn, G. W., & Co., Monadnock bldg
McHugh, Owen (Excavating & Grading), 710 Baker
McHugh, Peter J. (Street), 3908 Clay
McKay, Jno. H., 3499 Sacramento
McKillican Bros., 338 Pine
McLaughlin & Walsh, Marston bldg
McLellan, E. W., & Co., 1038 Polk
McPhee Co. (Stone & General), 16th & Mabony Bros., Crocker bldg Carolina
Masow & Morrison Monadnock bldg
Mensch, L. J., 42 Market
Millar, Lawson & Jardine, 660 Market
Miller, George E. Contracting Co. (Inc.), 710 Montgomery
Mortenson Construction Co., 19th & Indiana
Moller, R. W., Pacific & Montgomery av
Muir, Reginald L., 3553 17th
North Amer. Dredging Co. (Dredging), Mer. Exch. bldg
O'Brien, Jas. H., Croker bldg
O'Brien, J. J. Construction Co., 15 2d
O'Connor, Daniel J. (General), 3689 Sacramento
O'Day, Daniel, Co. 98 Belcher mento
Ohno, J., 2823 25th
Pacific Construction Co., 16 California
*Pacific Improvement Co., Croker bldg
Palmer & McBryde, Monadnock bldg
Petersen, H. L. (Foundations, Reservoirs, Reinforced Concrete, etc.)
Pettus, T. A., Mechanics' Bank bldg
Priddle, Arthur, 185 Stevenson
Ramsden, Griffith & Co., 185 Stevenson
Rassaert, Oscar, 417 Montgomery
Robertson Bros., 39 Morris av
San Francisco Teaming Co., 500 Hampshire
Schofield Construction Co., Balboa bldg
Sheehan, John R., & Co., 350 Post
Simmle, T. W., Co., 1768 15th
Smith, Delmar Co. (Engineers & Contractors), Kohl bldg
Smith, Rice & Co. (Riggers & Contractors), 118 Howard
Smith & Watson Co., Lick bldg
STEWART, JAS. & CO., 709 Mission
Summit Construction Co., Kohl bldg
Stone, E. B. & A. L., Spreckles bldg
Streshley, Geo. L., 3922 24th
Suglya, I., 1516 Geary
Thompson-Starrett Co. (Builders, etc.), Bush & Kearny
Thomson Bridge Co. (Bridge, Sewer & Public), 103 Main
Union Contracting Co., 334 Kearny
United States Dredging Co. (Dredging), 237 1st
Vonder Horst Bros. (Inc.), (Builders & Reinforced Concrete, etc.)

Walker, P. J., Monadnock bldg
Warren Improvement Co., 107 Montgomery
Webster-Mace Construction Co., Merchants Exchange bldg
Wright, McCoy, Contracting Co., 3108 Buchanan
Yorston, W. K., Metropolis Bank bldg
SAN JOSE—Ward, Joseph (Sewer, etc.)
Ward, Joseph (Sewer, etc.)
Webner, C. W. (Street, etc.)
STOCKTON—Moreling, Lewis (Large, Railroad Grading, etc.)

COLORADO.

DENVER—Bradbury, W. C. & Co., Rd. bldg
Denver & Pueblo Construction Co., Railroad Farrar & Guy, Quincy bldg
Gaffy & Keefe Cons. Co., Exchange bldg
STEWART, JAS. & CO. (Harbor, Marine & Heavy Buildings), Century bldg
PUEBLO—Shutt Improvement Co. (Grading, etc.)

CONNECTICUT.

ANSONIA—Curtiss, James G. (Excavating, Grading, etc.)
BERLIN—Berlin Construction Co.
BRANFORD—Slaney, John T.

BRIDGEPORT—Biltz & Co. (Sewers, etc.), 83 Fairfield av
Casey & Hurley, 120 Pequonnock
Costigan, Jno. (Excavating, Grading, etc.), 832 Ogden
Ford, Mich'l H. (Excavating, Grading, etc.)
Pierce, B. D., Jr., Co. (Macadam Roads, Sewers, etc.), 122 Bank
Pierce Mfg. Co. (Sewers, etc.), 95 Wall
BRISTOL—Condon, Pat'k H. (Excavating)
DANBURY—Sweeney, Peter
DERBY—Fagan, F. H. Co. (Excavating, etc.)
Madorno, P. (Grading, Excavating, etc.)
GREENWICH—Christiano, Joseph
Cumiskey, James
Hannard, Howard
Larsen Bros. & Co.
Smith, W. J.

HARTFORD—Angus, Wm.
Balf, Edward, Co. (Excavating, etc.), Cook, Charles C., 401 Trumbull 26 State
Hartford Paving & Construction Co. (Paving Loomis, Chas. & Public), 703 Main
McKone Bros.
Southern N. E. Paving Co. (Paving), 26
LITCHFIELD—Switzer, George J. State
MERIDEN—Kearney, Thomas (Road)
Lane Construction Corp. (Water Works, Maloney, M. Sewer, Roads, etc.)
Suzio, Leonardo (Road, Excavating, etc.)
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 Empire Construction Co., 108 La Salle
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 The Rookery
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 *Henderson, Horace P., 225 Dearborn
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 *Lorimer & Gallagher Co. (R. R., Canal,
 Masonry & Heavy Concrete), 217 La Salle
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 Co., 205 La Salle
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 Moreland, H. D. Co., 97 Clark
 Mortimer, Wm. H., & Son, 134 Monroe
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Williams & MacRitchie, 153 La Salle

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Pierson, J. C. & Son (General), 230 E Ohio
Sedvert, Herman W., Lemcke bldg

Sells, Corbin P. (General), 1901 Taibot av
Shover, J. E., 1225 Hudson

Shover, Oran D. (Paving, Sewer, etc.), 534 E Washington
Smock, F. C., Lemcke bldg

Spink, Edgar C. (General), Law bldg
Tripp Bros. (General), c E Ohio & C C C & St L Ry

Von Spreckelson, Albert, 1200 E. North
Western Cons. Co. (Paving, etc.), Traction Terminal bldg

West Lake Construction Co., Lemcke bldg
Weyenberg, Peter C. (General), 1151 W New York

Wolf & Ewing (General), Lemcke bldg
*Yawger, A. J. Co., Fair blk

JASPER—Taylor, Edw. (Paving, etc.)
KOKOMO—Dixon & Hunt

Moore & Danner
Watson, J. H.
LAFAYETTE—Kessener, Henry J. (General)

Stillwell, William F.
Western Construction Co. (Paving)
LEBANON—Bercan & Adams

MARION—Barnes Bros.
Michaels & Minnich

MICHIGAN CITY—Ohming Bros.
Schneider, August
MUNCIE—Illingworth, Fred. & Co.
Russey, Charles H. (Paving & Sewer)
NEW CASTLE—Burke, T. J. & H. F. (Large)
Payne Construction Co. (Large)
NOBLESVILLE—Heinzman Bros. (Large)
PERU—Theobald, Jacob
PORTLAND—Sanders & Detamore
RICHMOND—*Johnson, B. & Son
SOUTH BEND—Christman, H. G. & Co., 125 S. St. Joe
Hoban & Roach (Sewer, Paving, etc.)
Nelson, James (Sewer, Paving, etc.)
Shipe & Turner (Excavating, etc.)
Webster, Lewis H. (Sewer)
TERRE HAUTE—Dorsey, Wm. C.
Fouikes-Forbes Co.
Harris, W. H.
Kintz, P. C. & Sons
Miller, J. W. & Son
Modern Construction Co.
VALPARAISO—Clifford & Co. (General)
WABASH—Hipskind, Philip, & Sons
WASHINGTON—Brown, R. A. & Co. (General)
WINAMAC—Winamac Bridge Co. (Sewer, etc.)
WINCHESTER—Moorman & Goodrich
& Public Work)

IOWA.

BURLINGTON—Burlington Construction Co.
Young, N. S. (Railroad)
CEDAR RAPIDS—Bartlett & Kling (Builders)
Wallace, R. A.
CLINTON—Lake, John & Sons
COUNCIL BLUFFS—Consolidated Construction Co.
Herman, E. L.
Wickham, E. A. & Co. (Paving, Sewer & Water Works)
DAVENPORT—Arnould, Alphonse A. (Bldg. & General)
Concrete Engineering Co. (Concrete, Bridges, etc.)
Davenport Construction Co. (Municipal & General Construction Co. Public)
*Gould Construction Co.
*Johnson, E. S., Co.
Kahl Construction Co. (Municipal & Public)
*List & Gifford Construction Co. (Public)
McCarthy Improvement Co.
Nebergall, J. Frank (Building & General)
People's Construction Co. (Bridges, Concrete, etc.)
*Purcell Construction Co. (Concrete, etc.)
Tri-City Construction Co. (Builders & General)
*Walsh Construction Co. (General)
DENISON—Gary, A. J.
DES MOINES—Cram, Frank, 505 Grand av
Herrick, Oliver P. (Municipal), 107 Decatur
Lovell, Walter D.
*Magden & Sheely, Clapp bldg
McGorrick, John B.
Stark, N. M. & Co. (Paving & Bridge)
Turner, Roland Co. (Sewer, Waterworks, etc.)
DUBUQUE—O'Farrell Contracting Co. (etc.)
IOWA CITY—Horrabin, William (Paving & Sewer)
KEOKUK—*Cameron, McManus & Joyce
(Levee, Railroad Sewer & Public)
*McManus & Tucker (Railroad & Public)
OSKALOOSA—Carlson Construction Co. (Paving, etc.)
OTTUMWA—Ottumwa Brick & Cons. Co.

KANSAS.

ATCHISON—Schaeffer, George H. T. & Co.
CHERRYVALE—Cherryvale Construction Co. (not inc.)
COFFEYVILLE—Plunkett & Clark (Sewer, etc.)
COTTONWOOD FALLS—*Chase County Stone
FORT SCOTT—Hornaday, Grant Co.
IOLA—Gilfillan, R. S. & Son (Paving)
KANSAS CITY—Columbia Construction Co.
Meyn, F. C. (General), 724 Kansas av
Thompson, F. A. (General), 630 Quindaro
LAWRENCE—Dolley & Moody Construction Co.
Schneider, E. H. F.
LEAVENWORTH—McGonigle, James A.
STRONG—*Lantry Contracting Co. (Large)
TOPEKA—Blanchard Cons. Co.
Capitol City Vitrified Brick & Paving Co. (Sewer, etc.)
Cuthbert & Sargent (General)
Hedderman, Henry
Spencer, F. M.

KENTUCKY.

COVINGTON—Craig, John J., 24 W 9th
Stevens, J. R. Co., Farmers & Traders Bank bldg
FRANKFORT—General Supply & Construction
HENDERSON—Bailey & Kroener Company

LOUISVILLE—Baumeister, Henry
Bickel, Henry Co. (Grading & Excavating), 1048 Garden
Clark, L. R. (General), 648 W Jefferson
Figg, L. R. (General), 243 6th
Gott, Fred. Tyler bldg
Home Building Co.
Minor, J. S., & Son (General), 312 W. Jefferson
National Roofing & Supply Co. (Paving), 140 W Main
Rommel Bros. (General), 915 E B'way
Sibler, Jos. & Co. (General), 1120 26th
Southern Roofing & Paving Co., 1006 W Struck, Alford, Co. Main
Wirth, P., & Son
LUDLOW—Grant, A. V. C.
NEWPORT—McLane, John B., & Co.
Spinks, Harry C. (Street Work), 121 E. 6th
PADUCAH—Katterjohn, F. W., Construction
RICHMOND—Mason & Hanger Co. Co.

LOUISIANA.

ALEXANDRIA—Hull, F. B., Construction Co.
LAKE CHARLES—Maginnis & Reimers
NEW ORLEANS—Barnes, D. H.
Calongne & Sargent (Paving), Hibernia Bank bldg
Carey, W. T. & Bro., 630 Camp
*Christie & Lowe, Norris bldg
Cook & Laurie Contracting Co., 527 Canal
Craven, J. A. & Co. (Paving, etc.), 1332
Dameron & White, Hennen bldg Tulane av
Dannenman & Charlton (Ltd.)
Egan, Thomas
Gardner, J. H. Cons. Co., 505 Tchoupitoulas
General Contracting Co. (Paving, etc.), Hennen bldg
Grasser Contracting Co. (Paving, etc.), North
Irwin Bros. (Sewers & Public Work), 627 Koch, Julius
Kracke & Flanders, 630 Gravier
Moody, S. D., & Co. (Ltd.)
Muir & Fromherz, 211 Camp
O'Herron, M., & Co.
Orleans, Chas. A., 319 Carondelet
Orleans Engineering Co. (Waterworks, Sewers, etc.)
Ruppel, A.
Toledano & Wogan
STEWART, JAS. & CO. (Harbor, Marine & Heavy Buildings), Hibernia
Tranchina, D. & J., 1104 6th Bank bldg
SHREVEPORT—Bushy, J. L.
Chatwin Bros. Riprap & Cons. Co. (Street & Public)

MAINE.

AUGUSTA—Puriton Bros. Co.
HULLS COVE—White & Carpenter
KENNERUNK—Ward Bros. & Co. (Large)
LISBON FALLS—Applebee, C. E.
LEWISTON—*Bearing & Clifford Construction Co. (Railroad, Sewer & Masonry)
PORTLAND—Bennett, Wm. F. & Son, 3 Moulton
Cunningham, F. W. & Sons, 390 Congress
Doyen, Philip H., 117 Commercial
Griffin, D. F. & Bro. (Paving & Public), 106A Exchange
Gulliver, John W., 102 Exchange
Libby, S. & Son (Excavating, etc.), 191 Brighton av
*Shanahan, Richard D. (Public Work)
Smardon, George H. & Co. (Paving), 42 Market
Worster & Wilson (General), 92 Stevens av
ROCKLAND—Glover, W. H. & Co. (Public Work)
RUMFORD FALLS—McGregor Bros.
WATERVILLE—Purinton, Horace O.

MARYLAND.

ANNAPOLIS—Noel Construction Co.
BALTIMORE—Ament, Geo. F. (General), 1124 N Fremont av
American Construction Co., 324 S Payson
Anderson, W. E. (General), 201 St. Paul
Armstrong & Latta, American bldg
Atlas Construction Co., Continental bldg
Baltimore Ferro Concrete Co. (Reinforced Concrete Work, etc.)
Baltimore Sanitary Contracting Co., Fidelity
Blake, George A., Law bldg bldg
*Bullock Electric Mfg. Co., Continental bldg
Chesapeake Construction Co. (General), Continental bldg
Cremen, Jas. C. (General), Carey, nr Presstman
Degnon Contracting Co., Pier 2, New City Docks
Dotterweich, Jno. J. (General), 1235 N 5th.
Ferguson, Wm. & Bro., 214 Clay E
Fisher, Riley & Carozza, American bldg

Flanigan, P. & Son (General), Lexington & Calvert
Glenn, Benj. (Bridge), 2300 E Baltimore
Goldbach, Otto, 321 S. Dallas
Hennebique Construction Co., Continental bldg
Hopkins-Barnett Co. (Concrete Work), Calvert bldg
Huse, A. R. & Sons, 12 Gorsuch av
Jenkins, J. H. & Sons (Gen'l), Georgetown.
*Jones, T. B. & Co. (R. R. Sewer, Masoury, Wharfs, etc.), Fidelity bldg
Larkin, Dominick M., 1463 Columbia av
Long, Frank H. (General), 111 1st av, E
*McCabe, James F. Co. (Paving, Tunnel, Bridge & Railroad), Equitable bldg
McCaul, Chas., Co., American bldg
McCulloh, R. N. & Co. (General), 118 E Lexington
*McLean Contracting Co. (Dock, Bridge & Railroad), Maryland Trust bldg
Marks, Wm. D., 138 Roland av
Nardin, George F., 773 W Pratt
Noel Construction Co. ("Large," General), Calvert & German
Plant, Wm. M., Law bldg
Porter, Wm. H. & Son, 505 E Forrest
Reddington, P. & Sons (Paving & Public),
Ripple, Henry S., 5 Clay 325 St. Paul
Rullman & Wilson, Lafayette av, E & Mt. Royal av
*Sanford & Brooks Co. (Railroad, Dredging, Harbor & Government Work) 24 Commerce
Schneider, F. E. & Co. (Excavating, Paving, etc.), Law bldg
Schuck, Albinus, 3302 E. Balto.
Snyder, Henry & Son, 2663 W North av
*Southern Electric Co., 423 N Calvert
*Talbott, M. A. & Co. (Sewer, etc.), American bldg
Thomas, G. H. (General), Vickers bldg
Thorne, Wm. E. (Masonry), Equitable bldg
Utterbaugh, George (General), 1326 N Ful-
Walker, J. W., 130 Montgomery ton av
Walsh, J. J. & Son (Buildings, etc.), 1525 Maryland av
Wells Bros. Co. of New York (Buildings, etc.), Union Trust bldg
*WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation).
(See adv. index, end of book)
Williamson, C. S., Law bldg
CUMBERLAND—Macarthur Bros. Co.
Porter, Josiah M.

MASSACHUSETTS.

ATTLEBORO—Brownell, A. N.
Perry, N., & Co. (Sewer, etc.)
BEVERLY FARMS—Connolly Bros. (Public Work)
BOSTON—Ambursen Hydraulic Construction Co.
(Dams, Bulkheads, Power Houses & General Hydraulic Construction), 176 Federal
Atlantic Construction Co. (Public Work), 6 Beacon
Barrett, J. J. (Excavating, etc.), 615 Dorchester av, S. B.
Berlin Construction Co., 131 State
Bianco, Louis M. & Co. (Public Work, etc.), 43 Tremont
Bishop, J. W. Co. (Builders & Public Work), 683 Atlantic av
*Boston Industrial Co. (Inc.), 178 Devonshire
Breyman, G. H. & Bros., 293 Marginal, E B
*Bruno & Petitti (Sewer, Waterworks, R. R., Masonry, etc.), 18 Tremont & 15 Court sq
Bryne, G. M. (Public Work), 7 Water
Cefalo, Antonio (Excavating, etc.), 220
*Coleman Bros., 15 Court sq Devonshire
Coleman, D. E., Co. (Public Work)
Coleman, Jno. C., & Son (Street & Public), 41 Ritchie, Rox.
Cowin, Frank H. Co. (Public Work), Old South bldg
*Cram, D. H. (R. R. Bridges & Public Work), 702 Dorchester av, Dor.
Derry, C. T. (Sea Walls, etc.), 68 Devonshire
*Dillingham, George A. & Co. (Paving, etc.), 19 Exchange pl
*Doloff, C. W. & Co., 20 Central
Donovan, Patrick F. (Grading, etc.), 115 Terrace
Dugad, George R. & Co. (Excavating, etc.), 166 Devonshire
Ellis, W. H. (Bridge & Masonry), 17 Milk
Farnum, Loring N. Co. (Engineers & Contractors), 53 State
Fuller, Geo. A. Co. (Builders), 131 State

Gilligan, William (Excavating, Grading, etc.), 28 Mechanic, Rox.
 †Gore, F. S. & A. D. (Paving, Sewer, Electric Railway, etc.), 1016 Adams, Dor.
 Gore, J. Thomas (Public Work), 54 Kilby
 Gow, Charles R. Co., 79 Milk
 *Grose, W. H. & Co. (Electric Railway, etc.), 54 Kilby
 Ham, Benj. A., 119 Boston Dor.
 Hanscom, H. A. (Grading, etc.), 53 State
 Haskin, Chas. A. (Grading, etc.), 16 City sq
 Hayes, Geo. & Co. (Public Work), 166 Devonshire
 Hill, Peter W. (Public Work), Old South bldg
 Holbrook, Cabot & Rollins Corp., 6 Beacon
 Horton & Hemenway (Large Builders), 683
 Johnson, Samuel W. Atlantic av
 Johnston, Chas. J.
 Jones & Meehan (Street & Public Work), 10
 †Kendall, M. K. & Co., 32 Oliver Tremont
 Keyes, W. H. & Co. (Builders, Street & Public Work), 95 Milk
 Kiley, Daniel J., 95 Milk
 Lawler Bros. (Heavy Masonry, etc.), 16 City sq, Chsn.
 Letteney, John H. (Public Work), 101 Tremont
 Ley, F. T. & Co. (Public Work), 630 E 1st
 *Libby, Albert A. Sons' Co., 161 Devonshire
 McCarthy, J. J. & Co. (Grading, etc.), 170 Summer
 McCormick, Matthew, 157 Ward, Rox.
 McGovern, Jas. (Excavating, etc.), 875 Adams, Dor.
 McGovern, Patrick (Paving), 6 Beacon
 McHale, Wm. J., Old South bldg
 McLellan, James D., 19 Warehouse
 McMurtry, A. J. & G. H. (Excavating, etc.), 16 Shepard (Br.)
 Mack & Moore, 22 Chapman pl
 Macomber, Geo. B. H., Co., 116 State
 Marr, Daniel & Son (Public Work), 384 Dor. av, S. B.
 Mead, Mason & Co. (Builders & General), Tremont bldg
 Metropolitan Contracting Co. (Street & Public Work), 95 Milk
 Miller, W. L. (Bridge & Masonry), 166 Devonshire
 Minton, Thos. F. (Grading, etc.), 4 Hyde Park av
 Moore & Co. (Water Works and Public Work), 12 Pemberton sq
 Mnnroe, W. B. (Public Work), 101 Tremont
 Murphy, Cornelius & Son (Grading, etc.), 296 Kilton
 Nawn, Hugh Contracting Co. (Excavating & Public), 82 Savin
 Norcross Bros. Co. (Builders & Public Work), Tremont bldg
 Northeastern Construction Co. (Public Work), 6 Beacon
 O'Connell, Dennis F. Co. (Heavy Masonry, etc.), 49 N Marginal
 O'Riorden, P. (Est.) (Excavating, etc.), 6 City sq
 Plummer, Rufus B., Jr., 166 Devonshire
 Quirk, D. S. Co. (Excavating), 1 Charles River av, Chsn.
 Rafferty, Wm. J. & Co. (Grading, etc.), 200 W. Eighth
 *Railway Contracting Co., 6 Beacon
 Roberts, Edward B., Old South bldg
 Scully, J. T. Foundation & Transportation Co. (Foundations, Excavating, etc.), 95 Milk
 Seretto, Michael (Sewer & R. R.), 42 Court
 Shailer & McCormick (Public Work), 101 Tremont
 Snow, F. A. (Public Works), 166 Devonshire
 Sullivan, Jeremiah J. (Excavating, etc.), 95 Milk
 Sullivan, Jno. H. (Road & Sewer), Lake & Commonwealth av
 Taylor, L. A. (Public Works), Tremont hldg
 Thompson-Starrett Co. (Builders & General), 141 Milk
 Tomasello, Antonio G., 69 Gibson, Dor.
 Trumbull, C. E. Co. (Sewer & Public Work), Tremont bldg
 †WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
 Whitcomb & Kavanaugh, 6 Beacon
 Whitney, Arthur C. (Builder, etc.), 18 P. O.
 Wilson, Robert, 15 Ashburton pl sq
 Woodhury & Leighton Co. (Builders & General), 166 Devonshire
 Wyman, Wendell H., 68 Devonshire

BROCKTON—Howard, George & Sons Co.
 BROOKLINE—Driscoll, J. & Son (Public Work) Kelley, T. J.
 CAMBRIDGE—Linehan, Chas. (Est. of), (Public Work) Riley, J. M., 113 Huron, av
 CHELMSFORD—Edwards, W. C.
 EVERETT—Coleman Bros.
 Oakes, George U.
 FALL RIVER—Beattie & Cornell (Builders & General)
 Beattie & Wilcox (Builders & General)
 Brownell, Isaac T.
 Burt, P. S. & Co. (Builders & General)
 Sears, C. H. (Builders & General)
 FITCHBURG—Moran, Jno. (Excavating & Grading), 274 Rollstone
 FRANKLIN—McCarty, J. J., & Co.
 GLOUCESTER—Cressy, Walter
 HAVERHILL—Cashman, Jno. (Excavating, Road & Paving), 150 Hilldale
 Jones, A. A. (Builders & General)
 La France, Louis A. (Builder & General)
 O'Connell's, Dan'l Sons (Builders & General)
 HOLYOKE—Landers, D. J., 231 High
 O'Connell's, D. Sons (Water Work & Public), 188 Hampden
 INDIAN ORCHARD—La Riviere Octave Co.
 LAWRENCE—Holland, Philip (Excavating, etc.)
 O'Mahoney, Michael
 Pike, W. N. & Sons (Large)
 Pitman, Ernest W. (Builder & General)
 LOWELL—Connors Bros. Co.
 LYNN—Campbell Bros. (Builders & General)
 Mayo, Fred. D. (Sewer, Paving & Excavating), 333 Union
 Pevear, Everett S. (Excavating, etc.), 539 Western av
 Sheehan, John, 585 Western av
 Strout Bros.
 MALDEN—Graftam, Edwin M.
 MELROSE—MacDonald, Angus, & Co.
 MILFORD—Cenedella Bros. (Macadam & Public)
 NEW BEDFORD—Davis, Chas. E. (Masonry, Jetties, etc.), 35 Commercial
 Duff, David & Son (Excavating, etc.), 73
 Smith, Benj. F. Co. (Large) Weld
 NEWBURYPORT—Cashman Bros. (Roads, etc.)
 NEWTON—Stuart, T. & Son Co. (Public Work)
 NEWTON CENTER—Hurley Bros. (Grading, Roads & Masonry)
 Muldoon, Arthur (Sewer & Excavating)
 Steeves, S. G.
 NEWTONVILLE—Higgins & Nickerson
 NORTH ADAMS—Whitney Bros.
 NORTHAMPTON—Bailey, William A. (Sewer, etc.)
 NORTH ANDOVER—Adams, Edw.
 PALMER—Atkins, George M. Co. (Heavy Masonry, etc.)
 *Flynt Building & Construction Co.
 PITTSFIELD—Atwood, Luther L. (Grading, Beckwith & Pike etc.)
 QUINCY—Cashman, John
 Shea, William & Son (Excavating, Grading, etc.)
 SALEM—Peterson, J. N. & V. S. (Sewer, etc.)
 Welch, Jas. J. & Co. (Public Work)
 SOMERVILLE—Gill, T. H. (Public Work), 22 Bonair
 McCarthy, Wm. J. & Co. (Public Work), 27 Bonair
 SOUTH FRAMINGHAM—*Falks, A. & Sons Co.
 SPRINGFIELD—Goodrich, William C. (Excavating, Grading, etc.), 139 White
 *†Ley, Fred T. & Co. (Sewers, Waterworks, Electric Roads, etc.)
 Mesisco, Joseph E. & Sons (Excavating, etc.), 81 Wilcox
 Reynolds & Co. (Excavating, etc.), 355 Maple
 Sackett Bros. (Excavating, Grading & Sewer), 834 Worthington
 Shaw, V. A. (Excavating & Grading), 86 Daves
 Springfield Excavating & Construction Co., 164 Dwight
 Vaughan Construction Co. (Excavating, Waterworks, etc.), 16 Pyncheon
 *Wright, A. H. & Son (Dam, Bridge & Heavy Masonry)
 SWAMPSCOTT—Lyons, James T.
 McDonough, Mich'l (Street & Public)
 Tuttle, H. Scott (Street & Public)
 TAUNTON—Briggs, Abram T. (Heavy Masonry, etc.), 86 Winthrop
 UXBRIDGE—*Newell & Snowling Construction Co.
 WAKEFIELD—Butler, A. A. (Masonry & Roads)
 Killorin Contracting Co. (Roads & Grading)
 WALTHAM—McCusker, Frank W. (Masonry, Grading & Macadam)
 McCusker, John H.
 Malloy, P. & Son (Excavating, Grading, etc.)
 O'Malley, Peter J. (Excavating, etc.)

WATERTOWN—Murdough, Albert B.
 WEST CHELMSFORD—Fletcher, H. E. & Co. (Excavating, Bridge & Dam Masonry, Foundations, Stone Masonry, etc.)
 WEST NEWTON—Cotter, Jerry & Sons
 WILLIMANSETT—Hucharme, Stanislas
 WINTHROP—Cralb, Charles G. (Public Work)
 WOBURN—*Ellis & Buswell Co.
 WORCESTER—Allen, F. L. (Sewer & Public), 8 Forest
 Bishop, J. W. Co. (Builders & Public Work), Cross, Edward J., 109 Foster
 Donohue, Michael (Sewer), 8 Perry av
 Kane, Michael J. (Excavating, Grading, etc.), 9 Wade
 Norcross Bros. Co. (Builders & Public Work), 10 E Worcester.
 Pike, H. S. (Excavating & Road), 12 Town-
 Webb Granite & Construction Co. send

MICHIGAN.

BAY CITY—Bay City Dredging Co.
 Campbell, Hugh
 CALUMET—Roehm, Paul P.
 DETROIT—Affeld, John S. (Sewers, etc.), 461 Baker
 Bartholomae, Max W. (General), 245 Warren av, B
 Bouvier, Charles F. (Sewers, etc.), 149 Harmon av
 Butler Bros.-Hoff Co., Whitney bldg
 Buchanan, Jas.
 Carmichael, Andrew T., 145 Forest av W.
 †Comstock-Haigh-Walker Co., Ford bldg
 Currie, Thomas E., Penn. Bank bldg
 Detroit Contracting Co., Penobscott bldg
 Gearing Bros. Co. (Ltd.), 1060 15th
 General Construction Co., Union Trust bldg
 *†Griffin, M. J. (Railroad, Paving & Masonry, etc.), 169 Stanton av
 Hall, Alfred J. (Excavating), 308 Catherine
 Hanley, Jas. (General), Peninsula Bank bldg
 Hotchkiss, Henry C. (Grading, Sewer, etc.), 44 Bostwick av, W
 Jaynes, Jno. (Sewer, etc.), 22 Euclid av E
 Jones, E. B. (Sewers & Grading), 405 Stanton av
 Kennedy, D. J. & Son (General), Home B'k
 Langley & Jaynes, 681 Toledo av bldg
 Langley, Wm. P. (Sewers), 161 Elizabeth. B
 Lappin, Wm. (Excavating, etc.), Pen. Bank
 *Lennane Bros. (General), 40 Fort, W
 Lloyd Construction Co. (Gas Works), 860 Greenwood av
 Mercier, John A. (Excavating, etc.), Hammond bldg
 Michigan Contracting Co., 360 Greenwood av
 Moran & Hughes (Excavating, etc.), Penin. Bank bldg
 *O'Donnell, Hugh & Son (Excavating, Railroad, Sewer, etc.), Penin. Bank bldg
 Palmer, John G. (Excavating, etc.), Peninsular Bank bldg
 Porath, Jullus (Sewers, etc.), Peninsular Bank bldg
 Reid, E. W. & Co., Stevens bldg
 Reynolds, Geo. (Grading, etc.), 669 16th
 Robertson, R., & Co.
 *Rogers, N. J. & Sons, 285 23d
 Spaulding, J. M. (Excavating, etc.), Penin. Bank bldg
 †WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
 Whittaker, Thos. G. (Sewer, etc.), 189 Selden av
 GRAND RAPIDS—Ackerman, J. B. (General), 120 N Union
 Appleyard, Johnson & Co. (General), Powers Theatre bldg
 Bovee, Walter, Lovett & Lake
 Boyes, D. W. (General), 275 Stocking
 Davidson, G. H., Houseman bldg
 De Bruin, Henry (Sewer), 101 Slgsbee
 Hauser, Owen & Ames (General), 102 N Ottawa
 Kloote & Van der Veen (Street), 36 Chester
 Lampman, Frank (Street), 1160 Cottage Grove av
 McNabb, Jno. Co. (General), Murray bldg
 McDermott, Jas. (Paving, etc.), 315 Bow-
 Pickett, Richard (Street), 1056 Hall ery
 Rosema, N., 345 Lake av
 Ruscho, J. P.
 Schliess, F. C. (General), 57 Parkwood av
 Westra, N. J., The Gilbert
 HARBOR SPRINGS—Leahy & Glenn (General)
 HOUGHTON—Byers, Jas. J., & Co.
 Northern Construction Co.
 Pryor, Jas., & Son.

IRON MOUNTAIN—*Marsch, John Parmelee & Son
 JACKSON—Cowan Engineering Co. Dayton, M. A. & Co. (General)
 KALAMAZOO—Flaltz, Frank Rickman, George & Sons Co. Van Der Horst, Henry D.
 LANSING—McKale, Wm. H. Rogers, Herbert M.
 MARQUETTE—Van Iderstine, Charles C.
 MENOMINEE—Spaulding, E. P.
 MUSKEGON—McIntosh, Alex.
 PORT HURON—Germin, Garrett S., Sons.
 SAGINAW—Davies, J. C. (Sewer, Paving, etc.) Hunter & Stewart Construction Co. Parth, John Qualmann, John H.
 SAULT SAINT MARIE—Great Lakes Dredge & Dock Co. (River & Harbor) Hickler Bros. (Dredging & Submarine Drilling)

MINNESOTA

AITKEN—Shook, F. M.
 ALBERT LEA—Tapager & Hanson
 DULUTH—Barnett & Record Co. (Engineers & General)
 Campbell, L. D. & Co., Lonsdale bldg
 Drake & Stratton Co., First National Bank
 Engle, Emil (Sewer), 931 E 5th bldg
 Frederickson, C. J. (General), Manhattan bldg
 Great Lakes Dredge & Dock Co. (River & Harbor)
 *Hall, Carl & Co.
 Hood, D. P. (General), Mesaba blk
 Hilliard, J. W. (General), 9 Winthrop bldg
 Hugo & Tims, Manhattan bldg
 King, Geo. R. (Sewer & Public), Mesaba blk
 King, W. F. (General), 102 S. 1st av, E McCormack, Frank
 *McDonnell, Patrick (Paving, etc.)
 MacLeod & Smith (General), Torrey bldg
 Olson, O. W. (Buildings, Excavating, Sewer Grading, etc.), 424 9th av, E
 Osborn & Co., 827 Lake av, S
 Roberts-Kingston Contracting Co.
 Smith & Vokes (General), Exchange bldg
 Watterworth & Fee (General, Street & Public), Torrey bldg
 FERGUS FALLS—Lauritzen Bros. (Paving, etc.)
 Lauritzen, John
 LITTLE FALLS—Harrison & Peterson
 MANKATO—*Widdell & Co.
 MINNEAPOLIS—Barnett & Record Co. (General), Corn Exchange
 Brayton Engineering Co., W Lake & Colfax av
 Brown, G. W. (General), 3129 3d av, S
 Cheney, R. J., 113 N. 4th
 Congdon Construction Co., Oneida blk
 Cooke, Geo. & Sons (General), Boston blk
 Cooper, B. (General Contractor & Builder), 1114 Yale pl
 Davis Construction Co., Kasota bldg
 Elliott, J. & W. A. (Public Works), Lumber Exchange
 Haglin, Chas. F. (General), 228 Lumber Ex
 Leighton, H. N. Co. (General), 213 S 6th
 Libby & Nelson (General), Temple ct
 Lindquist, Gust
 Lovell, Walter D.
 McLeod, Angus Co. (General), 409 6th av, S
 Pelton, R. B. (Builder), 418 6th av, S
 Pike & Cook Co., 416 S 5th
 Prince Construction Co., Northwestern bldg
 Trainor Bros., Boston blk
 *Winston Bros. Co. (Railroad, etc.), Globe
 *Winston-Dear Co., Globe bldg
 Wunder, John Co., Lumber Ex
 NEW ULM—Cuddy-Cavanaugh Co. (Sewer, etc.)
 ST. CLOUD—Doyle, O. F. (Sewer, etc.)
 Freeman, D. H. & Co.
 ST. PAUL—Brayton Engineering Co.
 Cameron & Co., Ryan bldg
 Carlson, J. M., 227 W 5th
 *Dale & Bumgardner (Grading, Railroad, etc.), Scandinavian-American Bank bldg
 Deeks & Deeks (General), National G. A. Bank bldg
 Fielding & Shepley (Sewer Grading, Paving & Bridge), 216 W University av
 *Foley Bros. (Railroad, etc.), Gilfillan blk
 Forestal & Feyen (General), N. Y. Life bldg
 Frankman Bros. & Morris (General), Globe bldg
 Grant, G. J., Construction Co. (General), New York Life bldg
 Gronewald, W. G.
 *Guthrie, A. & Co., German-Am. Bank bldg
 Hennessy, P. M. Construction Co. (Paving, Sewer, etc.), 205 New York Life bldg
 Johnson, E. J., 902 Thomas
 Lauer Bros. (Heavy Masonry, etc.), ft Miller, John W. Chestnut

Nickel, J. H.
 Oakes, Geo. W. & Co., Endicott bldg
 *Ryan & Johnson (Sewer, Grading & Railroad), Scan.-Amer. Bank bldg
 *Smith, Grant & Co., Gilfillan blk
 Ulmer, Wm. H.
 ST. PETER—Brogen, Thomas (Excavating & Public)
 STILLWATER—Olsen, O. H. (Public Work)
 WINONA—Abell & Braley Co. (Paving, Sewer, etc.)

MISSISSIPPI

JACKSON—McGee, W. J.
 VICKSBURG—Gregory, T. S. (General)
 Helgason Bros. (River)

MISSOURI

CARTHAGE—McNerney, P. J.
 INDEPENDENCE—Shaw, Geo. W.
 JOPLIN—Bane & Moore.
 Deiter & Wenzel Construction Co.
 Joplin Construction Co. (Sewer, Paving & Public)
 Koehler, A. F.
 KANSAS CITY—Arrowhead General Contracting Co., 116 W 8th
 Boyd, Robert J. & W. M. Construction Co. (Paving, etc.) 200 S W boul
 Bradbury, E. H. (Grading, etc.), Sheidley bldg
 Brown, Geo. L. & Son (General), Amer. Bank bldg
 Corcoran, Jas. G. & Co., Baird bldg
 Crebo, Edward, 1109 McGee
 Crites & Beatty, 507 Temple blk
 Fox & Smith
 Freeborn Engineering & Construction Co. (Heavy Structures a Specialty)
 Goodlander, George W., Postal Tel. bldg
 Halpin, James F., New Nelson bldg
 Huggins, G. W. (General), Shukert bldg
 *Kahmann & McMurry (General), Bryant bldg
 Kansas City Bridge Co. (Bridge & Stone Piers)
 *Kenefick - Hammond - Quigley Cons. Co., Bryant bldg
 *Kenefick, Wm. Co., Bryant bldg
 Lantry Contracting Co., Gumbel bldg
 Latimer, Frank H. (General), Mass bldg
 Lonsdale Bros. (General), Bryant bldg
 McTernan-Halpin Construction Co., 27th & Madorie, A. E. Walnut
 Morley, P. J.
 Mullins, W. C. (Sewer), 3018 E 8th
 Parker-Washington Co. (Paving, etc.), 2309 Penna
 Smith, Lucius J., Bank of Commerce bldg
 Stannard, Jas. Construction Co.
 Stiver, H. M., Postal Tel. bldg
 Taylor & Winn Construction Co. (General), Mass. bldg
 Thomas, John D., Postal Tel. bldg
 Union Bridge & Construction Co., Bryant bldg
 Urban Construction Co., Dwight bldg
 West, A. L. (Grading, etc.), 3115 Park
 ST. JOSEPH—Buddy, Phil. P., Building & Construction Co., 501 Main
 Selden-Breck Construction Co.
 Stamey, T. W. & Son
 ST. LOUIS—Abadie, E. H. & Co., Times bldg
 *Anderson, A. & Co., Victoria bldg
 Atlantic Quarry & Construction Co., 319 N
 Atlas Construction Co., 407 N 8th 4th
 *Bambrick Bros. Construction Co. (General), 5229 St. Louis av
 Barwick Construction Co., 4957 McPherson av
 Bes Line Construction Co., 201 N 4th
 Black, Albert W. (General), 2107 Clark av
 Black, James, Masonry & Contracting Co. (Sewer & Masonry), Wright bldg
 *Boyce, W. D. Engineering Co., Chemical bldg
 Brockett, John M. Contracting Co., 4253 Sarpy av
 Bush, W. R. Construction Co., 211 N 7th
 Carmichael, Wm. R., Co. 122 N 7th
 Cavanagh, Timothy E. (General), 3063 Madison
 Cooney Construction Co., Fullerton bldg
 Dawson, Richard T., 6011 Columbia av
 Denham, William L., 407 N 8th
 Elias, Wm., 1430 Washington av
 Eyerhmann, G., jr., & Bro., 1216 S Grand avenue
 Farrell, Jas. Construction Co., 2108 N B'way
 Fairback, Henry, 2550 N Grand av
 Flannery, Thos., 1009 Chestnut
 Frantz, Wm. H., 5222 Raymond av
 *Fruin-Bambrick Construction Co., Chemical bldg

*Fruin-Colnon Contracting Co., Merchants-Laclede bldg
 Gatlin, James G., 14 Parkland pl
 Gelsel Construction Co. (Sewer, Paving, Bridges, Heavy Masonry, etc.), 620 Chestnut
 Gilsonite Construction Co., Wainwright
 Globe Construction Co., 721 Olive bldg
 Godfrey & Hirsch, Wainwright bldg
 Gray, C. L., Construction Co., Victoria bldg
 Gruetzmacher, H. F. & Co. (Stone & Masonry), Wainwright bldg
 Guentert, Eli, 5843 Eastern av
 Hanick Quarry & Construction Co., Llggett bldg
 Heman Construction Co. (Sewer & Public), Fullerton bldg
 Heman, Harry F. (Sewer & Public), 721
 *Hickey Bros., Times bldg Olive
 *Hill-O'Meara Construction Co. (Sewer, Paving, Waterworks & Masonry), Syndicate Trust bldg
 Hinchman-Renton Construction Co., 211 N 7th
 Hoffmann-Hogan Construction Co., 2712 Wyandotte
 Johnston, P. G. & Co., 407 N 8th
 Kellerman Contracting Co., Roe bldg
 Kennah, L. J., & Son, 3600 Clarence av
 Lowery, Thos., 1604 S Grand av
 McClure, R. P. Construction Co., 203 N 10th
 McCormack, Charles B. (Builder), 318 N 8th
 McCully Construction Co., 509 Chestnut
 McKelvey Cons. Co. (General), 816 Olive
 McMahon, John F., Wainwright bldg
 *Midland Contracting Co. (General), 509 Chestnut
 *Morey Engineering & Construction Co., 721 Olive
 Morrison, R. W., Construction Co. (Large Builders), 722 Chestnut
 Mulr, Matthew W. (Builder), 816 Olive
 Murphy, Dan, 3921 N 21st
 *Myers Construction Co. (General), 421
 *O'Reilly, Chas. P., 220 N 4th Olive
 Parker-Washington Co., 4500 Duncan av
 Pauly Jail Building Co., 2215 DeKalb
 Pelligreen Construction & Investment Co., 816A Pine
 Perkinson Bros. Construction Co. (Telford & Public), 3237 Carter av
 Prendergast Contracting Co., The Bircher
 Prendergast, Geo. G. Construction Co., 721 Olive
 Reinschmidt-Haennl Construction Co., 906 Olive
 Rich Construction Co. (General), 510 Pine
 Riechers, J. P., & Son, 3200 University
 Robinson, S. H. R. & Son Contracting Co.
 Rohman, J. B., 3144 Arsenal 721 Olive
 Rosedale Contracting & Supply Co., Hodiament av c Gates av
 Rothwell, Richard (Grading, etc.), 770 N Euclid av
 Ruecking Constructing Co. (Public Work), Marine av c Gasconade
 Rupp, Jos. F., Building & Contract Co., 1901 E Warne av
 Ruprecht, W. & F., 8011 S B'way
 Rycklicki Bros., 5010 Page boul
 Sauerbrunn Construction Co. (General), 18
 *Scott, Jno. & Sons, Times bldg N 8th
 Selden-Breck Construction Co., Fullerton bldg
 Settle & Co., 810 Olive
 Sinclair Quarry & Construction Co., Wainwright bldg
 Southern Construction Co., 407 N B'way
 Steiner, Edw. A. Const. Co., 407 N 8th
STEWART, JAMES & CO. (Harbor, Marine & Heavy Buildings), New Nat'l Bank of Commerce bldg
 Sutherland, W. M., Building & Contracting Co., Victoria bldg
 Taxis-Harvey Construction Co., Victoria bldg
 *Thompson, J. W. (Bridge Masonry, etc.) Wainwright bldg
 U. S. Conduit & Construction Co., Victoria bldg
 *Van Sant, Robert L. (Eng. & Contractor), 421 Olive
 Wade Bros. Construction Co. (General), 2272 Old Manchester rd
 Ward, Edw. J. (Builder), 721 Olive
 Ware, J. A. Construction Co., 509 Chestnut
 Webb-Kunze Construction Co. (Grading, etc.), Fullerton bldg
 Westlake Construction Co., 717 Locust
 Wilson, J. W. & Son, Odd Fellows bldg
 Wright-Gallagher Construction Co., Chemical
 Wyatt & Grant, 5318 Vernon bldg
 Wyckoff, Rob't (Sewer, etc.)

SPRINGFIELD—Crossen-Badge Construction Co. (Heavy Masonry, etc.)
 *Hedges Construction Co.
 Jarrett Construction Co.
 Weaver-Weeks Construction Co. (Heavy Masonry, etc.)
 Willer Construction Co., Grading, etc.)

MONTANA.

BUTTE—O'Brien, William A.
 *Perham, Wallace T.
 Sewell, W. J.
 Walch, Wm. E.
GREAT FALLS—Roberts, Wm.
HELENA—Fiske, E. W.
 Pew, Howard
 Wagner, Edward

NEBRASKA.

BEATRICE—*Kilpatrick Bros.
FALLS CITY—Gilligan, John, Co.
LINCOLN—Stephens, H. A.
OMAHA—*Callahan Bros., Phelan & Shirley
 Creedon, P. J. & Sons, 2120 California
 Gould, F. P., & Son (Inc.)
 Hamilton, R. P. & E. O. (General)
 Harte, J. H. (General), 1609 Webster
 Katz-Craig Contracting Co.
 McWilliams Construction Co., Paxton blk
 Murphy, Hugh (Municipal Work, etc.), Bee
 Parsons & Kelle, New York Life bldg bldg
 *Phelan & Shirley
 Schall, A., Co.
 Strehlow, E. C., 2102 Sherman av
 Van Court, E. D., 1020 N 16th
 Wood, Bancroft & Doty (Grading), First
ORLEANS—*Dunlay Bros. Nat'l B'k bldg
SOUTH OMAHA—Hannan, D. (Grading, etc.)
 National Construction Co.

NEVADA.

RENO—Burke Bros. (Public Work)

NEW HAMPSHIRE.

CONCORD—Fellows, Chas. L. & Co. (Grading, Mead, Mason & Co. etc.)
EPPING—Manchester, R. E., & Mfg. Co.
FITZWILLIAM DEPOT—Webb Granite & Construction Co.
MEREDITH—Clark, Geo. H. & Co.
MILFORD—Webb Granite & Construction Co.
NASHUA—Osgood Cons. Co. (Waterworks, Sewer, etc.)
PORTSMOUTH—Trefethen, E. W. (Sewer, etc.)
 Trefethen, E. W. (Sewer, etc.)

NEW JERSEY.

ATLANTIC CITY—Knauer Co., 132 S New Lee, Edward S. York av
BAYONNE—Brady Bros. (Large), Av E & E
 Cogan, James J., 98 Av C 21
 Herbert, Thos. & Son
BEACHHAVEN—Butter, Wm. L.
BLOOMFIELD—Ashley, H. J., 161 Ashland av
 Hedden Iron Construction Co.
CAMDEN—*Sweeten, B. F. & Son (Railroad, Paving, Public, etc.)
EAST NEWARK—Van Keuren & Son
ELIZABETH—Faughnan, Patrick (Sewer, Macadam, etc.), 516 Washington av
 Hitchings & Co. (Inc.)
 Lammerding-Devine Co. (General), 227 Broad
 McCloud, Wm. J. & Co. (General), 114 Broad
 New Jersey Dock & Bridge Building Co. (Harbor Improvements, etc.), 208 Broad
 Wade, Matthew (Excavating & Grading), 332 South
ENGLEWOOD—Brucker, Charles Contracting
 Flitschen, J. F. Co. (Road)
GRANTWOOD—Scioli, Nicoli
GUTTENBERG—Franzmann, Robert
HACKENSACK—Whyte, Wm. H.
HOBOKEN—Catello, M.
 Foley, Michael
 Linder, Philip (Excavating, etc.), 624 Monroe
 Sanford, A. F. Co., Second National Bank
 Scuttellaro, Frank bldg
 Vezzetti, Chas.
 Waddington, Robert & Son (Street & Public), 617 Jefferson
 Whan, Alexander, 1317 Garden
HOLLYBEACH—Norton, Chas. A.
JERSEY CITY—Atkinson, G. H., & Co., 273 Washington
 Baker, Wm. (Sewer, Paving, etc.), 137 South
 Brown, Leslie A., 379 Fairmount av
 Byrne, Henry (Public Work), 392 Mercer
 Connolly, M. T. Contracting Co. (Curbing & Public), 238 17th

Connelly, P. (General), 13 E Hamilton pl
 Cummings, Wm. F. & D. J., 534 Mercer
 Cutley, Joseph H., 508 Pavonia av
 Groskins, John, & Son, 299 Old Bergen rd
 Harrington, T. & Sons, 558 Montgomery
 Henry & McGivney, 15 Exchange pl
 Holmes & Cogan, 96 Garfield av
 Hopkins, John, 348 Ogden av
 Hudson Construction Co., 641 Grove
 Kelss, Geo. (Excavating, etc.), 17 Rutger av
 Kuederly, Charles, 319 Communipaw av
 Leshner & Wagner, 114 Pavonia
 O'Neill, Edward P., 37 Concord
 Pallsade Construction Co., 15 Exch. pl
 Robertson, William & Son, 15 Exchange pl
 *Ross, P. Sanford (River & Harbor), 277 Wash'n
 *Shanley, B. M. & J. F. Co. (R. R. & Public), 26 Exchange pl
 Stillman, F. M. Co., 26 Exchange pl
 Tierney & Connolly Construction Co., 226
 Tumulty Bros., 59 Brunswick Pavonia av
 United Contractors Corporation (Building & General), 15 Exchange pl
 Van Keuren & Son, Grand c Prior
KEARNY—(See Arlington)
LONG BRANCH—Campbell, Jas.
MONTCLAIR—Gibbs, Fred W.
 Gibbs, Fred W.
 Osborne & Marsellis Co., Public Work & Macadam, Bellevue av
MORRISTOWN—New Jersey Engineering & Construction Co.
NEWARK—Castle, Samuel, & Sons, 45 High
 Conway, Jas. (Sewer, etc.), 491 Central av
 Cooper, Chas. S., 45 Clinton
 *Cullen, W. A. (Track & Overhead Construction), 738 Broad
 Doriety, John, 168 Ridge
 Freeman & Co. (Excavating, etc.), 53 Prospect
 Harrison Construction Co. (Public Work), 837 Broad
 Hedden, V. J. & Sons, 431 Ogden
 Lanning, J. W. & Son, 122 Market
 Lewis & Rachlin, 400 Bank
 Midland Contracting Co., 11 Clinton
 Miller, C. Co. (Excavating, etc.), 113 High
 Milone Construction Co., 164 Market
 New Jersey Contracting & Engineering Co. (Masonry, etc.), Badger av & Bige-
 Peter, Jacob, 127 Frelinghuysen av low
 Russell-Robinson Co., 109 Frelinghuysen av
 *Shanky, B. M. Sons Co. (R. R. & Public), 859 Broad
 Snyder, Frank W., 372 Grove, V
 Vanderhoof, Peter & Sons Co., 285 Broad
 Van Keuren & Son, Passaic av & Clay st
 bridge, E N
 Waldron, E. M. & Co., 84 S 6th
NEW BRUNSWICK—Oliver, H. V., Contract-
 ing Co.
ORANGE—Kearns, Patrick (Public Work)
 *Wright & Lindsey
PATERSON—Ferguson, Jno. W. Co. (Builders, etc.), United Bank bldg
 *Lee, Jno. R. (Railroad), Second National Bank bldg
 Lynch, Michael, Construction Co., 1247 Madison av
 McKiernan & Bergin, First National Bank bldg
 Steele & Hooper
PERTH AMBOY—Graham & McKean
 Hansen, M. (Excavating)
PHILIPSBURG—Mutchler, S. B. & Co.
PRINCETON—Mathews, Wm. R.
 Reardon Co. (The)
RAHWAY—Lamphear, Henry L.
RIDGEFIELD—Edsall & Best
 Helsenbottle, C. (Excavating, Grading, etc.)
SOMERVILLE—Hardgrove, Wm. (Macadam & Public)
TOWN OF UNION—Walker, Wm. (See Weehawken)
TRENTON—Bugbee, Newton, A. K., 135 E. State
 Delaware River Quarry & Construction Co. (Road Construction, Railroad, etc.), 25 Tucker
 Hurley, Jno. H. (Sewer, etc.), 153 W Front
 Lawton, Lewis & Son (Masonry & Public)
 McGovern, W. F.
 Prior & Brock
 Rogers, O. C.
 Slack, Walter C.
WEHAWKEN—Roman, Otto E. (General, etc.)
 Weehawken Contracting Co.
WEST HOBOKEN—Capone & Trost
 Le Pore, P.
 Schneider, Henry M.
WEST NEW YORK—Murphy, Dennis J.
WEST ORANGE—Kocher, Charles
 O'Rourke, John

NEW YORK.

ALBANY—Collins Bros., Bensen bldg
 Dumary, Henry T.
 Dumary, T. Henry (Municipal)
 Knuth Bros.
 Malcolm, James H.
 Mulderry Bros. (Street & Public), 115 1st
 Pasquini, Attilio (General), Bensen bldg
 United Cons. Co., 467 B'way
AMSTERDAM—Grieme, H. C. (Est. of)
BINGHAMPTON—Crary Construction Co.
 O'Neil, Geo. F.
 Stephens, A. E., & Co.
 Woodruff & Merlthrew
 Turner, John J. (Building & Public)
BUFFALO—Champlin-McClellan Co.
 Bardol, Frank V. (General), D. S. Morgan
 bldg
 Brown, Thos. Contracting Co. (Excavating, etc.), 1135 Niagara
 Buffalo Dredging Co. (Dredging Water-works, etc.)
 Burgard, Henry P. Co. (Sewer & Public), 275 Lathrop
 Burger, Robert E., 133 Lexington
 Byers, James N., 461 Linwood av
 *Chapman, A. F. & Co. (General & Electric R'y, Track & Overhead Construction), Prudential bldg
 Coatsworth, A. T., 428 Elk
 Continental Engineering & Contracting Co., 33 Chapin blk
 Dark & Co. (Sewer & Public & Building), 654 Main
 Delaney & O'Brien, 219 Ellicott sq
 Dietrich, Geo., 83 Northampton
 Durolithic Co., The, 460 Ellicott sq, Buffalo, N. Y.
 Dwyer, J. W. & Son, Ellicott sq
 Dwyer, W., 161 Morgan
 Foster & Glidden Engineering Co., 285 Washington
 Frank, Peter H., 273 Richmond av
 Gibbs, John W., D. S. Morgan bldg
 Glipp, Louis H., Ellicott sq
 Goldman, John (Excavating), 260 Gullford
 *Grattan & Tiffauy, Ellicott sq
 Great Lakes Construction Co., Chamber of Commerce bldg
 Herner, Geo. A., 148 Madison
 Horton, D. E. (General), 52 Exchange
 Jepson, Mason & Co., Erie Co. Bank bldg
 Kehr, Augustus, P., ft of Church
 Knickenberg, Fred'k W. (General), 704
 Knoerl, John, 1961 Seneca Michigan
 Lancot, H. H. & Sons, Ellicott sq
 Lathrop, Shea & Henwood Co., Ellicott sq
 Lester, W. H., 1154 Seneca
 *Little, F. P. Electrical Co., 208 Main
 Moore, Geo. W. (Sewer & Public), 177 Elk
 Morris & Allan (General), Ellicott sq
 Mosler & Summers (General), 1266 Seneca
 Newton, James, 106 Bidwell Parkway
 Post, Herman H. R.
 Rappich & Culliton (Excavating, etc.),
 Rice, A. A., 1421 Main 2326 Main
 Rice, Geo. C., 412 Linwood av.
 Schutrum, C. L., Coal & Iron Ex.
 Sherrill Contracting Co., The Berkeley
 Smith, Wm. G. (General), 1101 Elmwood av
 Stahell, Jos. F. Co. (General), 1127 Niagara
 Stokes Bros. (General), Brisbane bldg
 Tilden, J. H. Co. (General), 12 Henry
 Vosseller, Geo. (Excavating), 110 Bradley
CANANDAIGUA—Robertson, Chas. F.
CATSKILL—Holdridge, G. W., & Son (Street)
COHOES—Neary Bros. Construction Co.
CORNING—Bradley & Nolan
 Ferenhaugh, U. G.
DUNKIRK—Hamilton, S. M. Co. (General)
 Meister Contracting Co.
 Walter, Gustave A.
ELMIRA—*Costello & Neagle (Paving, Sewer, etc.)
GENEVA—Dove, Wm. G.
 Persons, S. F. & Co.
GLENS FALLS—Finch-Anderson Co.
 Linehan & Burnham Co.
GLOVERSVILLE—Banker, A. M. (Paving, etc.)
GREENPORT—Greenport Basin & Construction Co. (Large),
 Reeves, W. H., & Co.
HORNELL—Tucker, Seth L.
HUDSON—Brennan, John F. (Builders & Public)
 Hester, Dennis
IRVINGTON—Dinkle & Jewell
ISLIP—Raynor, Benj. J.
JAMESTOWN—Johnson & Prather
 Mahoney, John F.
 Swanson, Charles (Public Work)
KINGSTON—Campbell & Dempsey (Public Work & Masonry)
 McNamee & Rice, Rondout
LAWRENCE—Smith, John H.

LITTLE FALLS—Dale's, Thos. Sons (General)
Eagan, Chas. (General)
Hallinan Bros. (General)
McCaghey, P. B. Co.
LOCKPORT—Le Valley, Frank J. (Sewer, Excavating, etc.)
Moon, John
Stalnthorpe, Charles N. & Co.
MAMARONECK—Coles, Selleck E.
MEDINA—Slack & Ellis
MOUNT VERNON—Piro, James, 36 N 4th av
Piro, James, 36 N 4th av
NEWARK—Schuman & Buscero
NEWBURGH—Dwyer & Sager (General)
Moshler, Geo.
Parrott, Wm. (Dock & River), 178 Wash'n
Wilson, J. D.
NEW ROCHELLE—Eckstein, Gustave
Galgano Bros.
Pioneer Contracting Co.
Smith, Thomas & Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Armstrong, Henry, Malbone & Rogers av
Borough Construction Co., 44 Court
Boylan Contracting Co., 292 Scholes
Bracken-McAveney Co., ft 6th
Bristow & Co., 1475 Pacific
Bulkley, Washington, 94 Emerson pl
Campbell, James J., 234 Moffat
Campbell, John M., 157 Spencer
Carlin, F. W. Construction Co. (Builders, etc.), 307 Washington
Cashman, John J., 44 Court
Chapman & Ryan, 35 Lincoln pl
Cranford Co., 52 9th
Cronin, Barth S. (Public Work), 573 Clinton
Cunningham, Frank (Excavating, etc.), 24 Emmett
Dady, M. J. Co. (Public Work), 350 Fulton
Desmond Bros. (Public Work), 449 Columbia
Donlon Contracting Co., 84 B'way
Furey, Robert (Public Work), 186 Remsen
Gallagher, Frank J., 490 Park pl
Haley & Keegan, 50 Dohbin
Harris, Isaac (Paving, Sewer & Public), 485 Flatbush av
Hart, Charles (Public Work), 617 Degraw
Jenkins, Theo. S., 44 Court
Kelly, Thos., Rochester av, n East New
Kordes, Hy. E., 243 Moffat York av
McCormick, Thos., 810 Lincoln rd
McKeever, Edw. J. & S. W. (Public Work)
McNamee, John (Public Work), 16 Court
MacArthur, Jas., 22 Ormond pl
Mallie, Jno. F. (Paving & Public), 1253
Miller, Luke, 80th n 7th av Prospect pl
Monahan, John E., 496 Manhattan av
Murray, P. J. & Co. (Sewer, Large), 215 Montague
Newman Construction Co., 215 Montague
Nolan, William, 375 Fulton av
Norton & Gorman (Public Work), 301 Doug-
Pruden, Chas. L., 468 59th lass
Purcell, Jas., 79th nr 4th av
Rapid Transit Subway Construction Co., 350
Robinson, J. M., Co., 44 Court Fulton
Ryan, N. Co., 489 Smith
Schubert, Bernard, 155 Jamaica av
Seaboard Construction Co., 639 Gates av
Sigretto, Jos. L., 1223 41st
Simpson, Wm., 14 Emerson pl
Strype, Richard, 40 Coffey
Thatcher, Jno. & Son (Builders, etc.), 54 Park av
Unique Construction Co., 291 3d av
Vofrei & O'Hearn, 427 40th
Walsh, Frank M., 374 Hamilton av
Wilson & Baillie Mfg. Co., 85 9th

Boroughs of Manhattan & Bronx.

NEW YORK—*Abbott-Gamble Co., 32 B'way
Altieri, Jerry (Excavating, etc.), 1567 Wil-
kins av
AMERICAN CONCRETE CO. (Sewer &
Concrete Reinforcing Engineers & Con-
tractors), 80 William. (See adv. index,
end of book)
Asphalt Construction Co. (Paving, etc.),
137th & Madison av
Atlanta Contracting Co., 434 E 91st
Atlantic Dredging Co., 25 Whitehall
Atlantic, Gulf & Pacific Co. (Dredging),
17 Park row
Baird, Matthew, Contracting Co. (Public
Work), 433 E 92d
Baker-McKean Co., 1161 B'way
Baxter, Wm. C., 1928 White Plains rd.
†Beacon Contracting & Construction Co.
(Light & Power Plants), 280 B'way
Beaver Construction Co., 22 William

Bellman & Sanford (Engineers & Con-
tractors), 149 B'way
Berlin Construction Co., 220 B'way
Blumenauer, Wm., 369 E 151st
Bouker Contracting Co., 24 State
Boyd & Seifridge, 949 B'way
Bradley Contracting Co., 172 Bowery
Bradley, Jas., 329 W 68th
Bradley, Wm. & Son (Public Work) 90
Briggs, Jas. M., 154 Nassau West
Brooks, Wm. Son Co. (Excavating, etc.),
615 W 49th
Brown, Isaac T. (Dredging, River & Har-
bor), 15 Whitehall
Brown & Fleming Contracting Co., 59
Bryson-Gamble Co., 165 Broadway Pearl
Buckley, Thos. J., Construction Co., 45
W 44th
Burke, Luke A. & Sons (Builders & General),
25 W 42d
Butler Bros. Hoff Co., 1170 B'way
Canavan Bros. Co., 518 W 56th
Carlin, P. J. Construction Co. (Builders &
General Contractors), 16 E 23d
Chapman, F. H., 43 Cedar
Chilian Contracting Co., 43 Exchange pl
*Clark & Co. (Public Work, Railroad, etc.),
100 B'way
Collins, Chas. W. (Sewer & Public), W
225th & B'way
†Commercial Construction Co., 114 E 28th
Conrady Co., 232 E 42d
Conroy Bros. (Inc.), 217 W 125th
Consolidated Engineering & Construction
Co. (Buildings & Steel Structures, etc.)
1 Madison av
Consolidated Telegraph & Electrical Sub-
way Co. (Subway, etc.), 66 Lafayette
Contessa, Vito & Co., 226 E 121st
Cornwell, John, 69 E 127th
Coverdale, W. H. & Co. (Engineers & Con-
tractors), 66 B'way
Cowen, Chas. A. & Co. (Builders & Gen-
eral), 1123 B'way
Cowen, Newman, 87 Nassau
Cramp & Co. (Inc.), 36 E 23d
*Crimmins, Thos. Contracting Co. (Muni-
pal & Public), 144 E 69th
Crockett, W. & W. F., 1233 2d av
Crow, Wm. L., Constr. Co., 289 4th av
Cuff, Wm. (Excavations), 426 E 104th
Culgin-Pace Contrg. Co., 133 W 129th
Cunningham, T. Co. (Sewer & Public), 608
E 15th
Cunningham & Kearns Contracting Co.,
438 E 91st
*Cuozzo, Donato, 61 Park row
Curtin-Ruggles Co., 39 Cortlandt
Dalley & Ivins, 21 Park row
Darling, Oscar, 17 Park row
Dawson & Archer, 150 5th av
*†Degnon Contracting Co. (Public & Marine),
60 Wall
Deisler & Stevenson (Masons & General),
520 5th av
Dempsey, Chas. J., 1520 3d av
Dillman Fireproof Const. Co., 225 5th av
Doctor, Geo., 209 W 133d
Doran, Chas. L., 1015 Waldon av
Dorgan Bros., 413 E 65th
Duffy, James J., 533 W 24th
Dunn, Bartholomew (Sewer & Public), 444
E 68th
*Dunn, F. C. & Co. (Inc.) (Railroads, etc.),
43 Exchange pl
Dunn, Geo. M., 481 E 171st
Eldlitz, Marc & Son (Builders), 489 5th av
Elgar's, James, Sons, 19 Lexington av
Empire City Subway Co. (Ltd.) (Subway,
etc.), 15 Dey
Estner, Charles, 123 Essex
Exner, Paul J., General Building & Con-
struction Co. (Inc.), (Builders, etc.),
1 Madison av
Falk, Frank Contracting Co., 830 West-
chester av
Farrell, E. J. & Co., 159 W 125th
*Farrell, Hopper & Co. (Masonry, R. R.,
Tunnelling, Dock, Bridge, etc.), 2105 7th
Federal Construction Co., 115 B'way av
*Ferguson Contracting Co. (Railroad & Pub-
lic), 37 Wall
Ferguson, John W. Co. (Factories, Mills,
etc.), 253 B'way
Ferro-Concrete Contracting Co. (Concrete
Construction, etc.), 1 Madison av
Figliuolo, J., 719 Union av
Fissell, Wm. H. & Co. (Builders, etc.), 1133
B'way
Fitzgerald, Michael J., 501 10th av
Fitzgerald, W. J. (Paving), 547 W 45th
Flanagan, Joseph, 3125 Corlear av
Fleischmann Realty & Construction Co., 170
B'way

FLEMING & CO. (Stable & Pav-
ings), 253 B'way. (See adv. index, end
Fogarty, Patrick, 450 E 57th of book)
Foundation Co. (Engineers & Contractors,
Calsson & Bridge Foundations, Sea Walls,
Excavations, Tunnels, Mine Shafts, etc.),
115 B'way
Fox, Henry E., 1987 Madison av
Franklin Contracting Co., 1 Hudson
Fuller, Geo. A. Co. (Builders, etc.), 949
Gallick, Jos., 1682 1st av B'way
Galligan, Thomas, 609 E 18th
Gallo & Pittelli Construction Co., Jerome
av & E 165th
*Gamble, James Contract Co. (Canal, Gas
House, R. R. & Public), 15 William
Garry, Jos., & Son (Public Work), 418 E
25th
*General Contracting & Engineering Co.
(Railroads, Piers, Docks, Bulkheads &
Harbor Improvements), 50 Church
General Supply & Construction Co. (Build-
ers & Government Work), 43 W 34th
Gerstle, Ralph J. F., Co., 1980 7th av
Gest, Guy M., 277 B'way
Gillbreth, Frank B. (Large), 34 W 26th
Gillespie, T. A. Co. (Public & Waterworks),
90 West
Gillies, Campbell & Co., 1 Madison av
Goble, Frank M., 1 E 42d
Godwin Construction Co. (Harbor Improve-
ments), 30 Church
Goodman, Patrick (Water, Gas & Drainage),
257 E 133d
Gordan, John, 501 5th
Grading Contracting Co., 13 Park row
Grant, Alex, 39 Cortlandt
*Guarantee Construction Co. (General &
Railroad), 90 West
Guidone & Galardi, 162 E 23d
Haggerty Contracting Co., 217 W 125th
Haigh, Eburn F., 175 W Houston
Halligan & Son (Excavating), 549 W 40th
Handibode, Peter, Jr. (Sewer & Public),
1172 Castle Hill av
Hannan, P. G., 815 E 213th
Harlem Contracting Co., 2 Rector
Harlem Excavating Co., 167 E 112th
Hart, B. F., Jr., & Co., 143 Liberty
Hart, Jas. A. Co., 256 B'way
†Hatzell & Buehler, 571 5th av
Hedden, V. J. & Sons Co. (Building), 1
Madison av
Heineken, Bayne & McCarthy Co., 1123
Broadway
Hellock, C. Sons, 633 Wales av
Hennebique Construction Co., 1170 B'way
Henry, R. & C., 633 W 47th
Hensle Construction Co., 3210 B'way
Hickey Contracting Co., 13 Park row
†Hildreth & Co., 135 B'way
Hoggson Bros. (Inc.), 7 E 44th
Holding, Wm. F., 2426 Davidson av
Holland & Co. (Public & Municipal), 493
W B'way
Holmes, Bros. (Underwriters' Work), 265
B'way
Holst Construction Co., 608 E 84th
Hood, R. H. Company (Building, Water-
works & General), 299 B'way
Hopper, Isaac A. & Son (Building & Pub-
lic), 1170 B'way
Hopper, Jno. J., 217 W 125th
Horn, Edward C., 1440 B'way
Hough, J. W., 7th av & W 151st
Housner, Wm. H., Jr., 286 St. Ann's av
Hudson Companies, 30 Church
Hudson Engineering Co., 90 West
Hyde, Frank D., 7 E 42d
Indelli & Conforti, ft E 125th
*International Contr'g Co., 17 Battery pl
Inter-State Dredging Co., 17 Battery pl
Jenks-Asserson Construction Co., 59 Pearl
Johnson, Chas. O., 482 W 24th
Kane, M. & Sons (Excavating, etc.), 31
Kearns, P. J., 438 E 91st Perry
Keating, John L. & Co., 323 E 28th
Keystone Construction Co., 1511 3d av
Kelly, Anthony, 217 W 125th
Larkin, Michael & Son, 519 E 16th
Larkin Bros., 627 E 169th
Lawler Bros. Construction Co., 21 Park row
Leahy Contr'g & Const. Co. (Sewer & Pub-
lic), 1446 Prospect av
Levin & Levin Contracting Co., 320 5th av
Libman Contracting Co., 1968 B'way
Lipps, Henry, Jr. (Sewer & Public), 3300
Olinville av, Williamsbridge
Lyons, Jeremiah C. Building & Operating
Co. (Builders), 4 E 42d
McBean, D. D., 17 Park row
McCauley, Thos. F. Contracting Co., 2367 3d
McCoy, Daniel J., 204 W 65th
McDonald & Barry, Sedgwick & Bailey
McDonald, John B., 90 West av

McDonald & Onderdonk (Public Work), 2906 Jerome av
 McHarg-Barton Co., 165 B'way
 McGuire, Jas. C. & Co., 50 Church
 McLaughlin, Thos. F., 346 E 81st
 McMullen, Arthur & Co. (Pneumatic Caisson Foundations, Bridge, Trestle, Docks, etc.), 21 Park row
 McMullen & McDermott, 21 Park row
 McMullen, Weand & McDermott, 21 Park Row
 McNiece, David J. (Public Works), 128 McNulty Bros., 549 W 52d
 McQuade, John J. (Public Works), 311 St. Ann's av
 McQuillan, Bernard (Public Work), 437 E 65th
 MacArthur Bros. Co. (Heavy Buildings, etc.), 11 Pine
 MacDonald, Chas., 7 Nassau
 Madden Bros., 202 W 142d
 Majatesta, John B., 3169 Jerome av
 Mallett, W. A. Co., ft. of Main, Westchester
 Manhattan Contracting Co., 1 W 34th
 Markenfield Construction Co., 50 Church
 Markey Bros., 164 E 35th
 Marmac Construction Co., 316 W 30th
 Marrin, E. & J., 520 E 18th
 Marrone, Michael, 414 E 116th
 Masterson, Wm. H., 1849 Anthony av
 Matthews, Edw. A., 17 Park row
 Mechanics Construction Co., 165 E 88th
 Meyer Contracting Co., 1133 Broadway
 Monks, John & Sons (Dock, Bridge & Harbor), 82 Beaver
 Mooney, Jas. J., 333 E 24th
 Morris & Cumings Dredging Co. (River & Harbor), 17 State
 Morrison, Edward, 54 Manhattan av
 Mount & Robinson, 28 Beaver
 Mullen Bros., 531 11th av
 Muiry, Thos. & Son (Excavating, etc.), 540 W 21st
 Municipal Engineering & Contracting Co., 90 West
 Muralt & Co., 114 Liberty
 Murdock, Harvey, 116 Nassau
 Murphy Bros. (Builders, etc.), 489 5th av
 Murpby Construction Co., 5 E 42d
 Murphy, J. Co. (Builders & General Contractors), 162 Reade
 Murray, Wm. J. (Sewer & Public), 316 E 96th
 Murray & Co. (Trucking, etc.), 259 Av C
 Naughton Co. (Railroads, Piers, Tunnels, Foundations, Subways, etc.), 309 B'way
N. Y. CONTINENTAL JEWELL
 Filtration Co. (Government, Municipal, Industrial & Railroad Work), 15 Broad
 (See adv. index, end of book)
 New York Contracting Co., 215 W 33d
 New York Filling Co., 17 State
 New York State Construction Co. (Engineers & Contractors), 78 Broad
 New York Tunnel Co., 45 Wall
 Norcross Bros. & Co. (Builders & Public Work), 160 5th av
 North Bros., 526 Southern boul
 North Eastern Construction Co. (Engineers & Contractors), 225 5th av
 North Western Construction Co., 43 Exchange pl
 Norton, Patrick (Public Work), 422 E 64th
 O'Brien Bros., 54 South
 O'Connell, Michael, 2075 Archer av
 O'Leary, Jno. J. Co., 39 Cortlandt
 O'Rourke Engineering Construction Co. (Pneumatic & Other Foundations, etc.), 345 5th av
 Oxnard Construction Co., 32 Nassau
 Pacific Improvement Co. (Railroad Construction), 60 Wall
 Packard, Ralph G. Co. (Dredging & Harbor), 130 Pearl
 Paladino Contracting Co., 523 E 119th
 Palladino, Joseph, 4590 Park av
 Parker, John H., Co., 42 E 23d
 Pasquini, A., 1123 B'way
 Pearson, S. & Son, ft. of E 33d
 Peirce, John Co., 90 West
 Pheasant Bros., 2808 3d av
 Phoenix Construction Co., 41 Park row
 Piercy, H. C. & A. I. Contracting Co., 422
 Pierson & Goodrich, 281 4th av W 15th
 Pietrowski, Konop & Co., 420 E 91st
 Pilkington, James (Sewers), Riverside Drive nr Depot la
 Pinckney, H. Irvington, & Co., 33 Fulton
 Pinckney, E. A., 33 Fulton
 Pucci Contracting Co. (Public Work), 340 E
 Qualey, J. S. Co., 29 B'way 109th
 Quinn, James, 1463 Ave A
 Quinn, W. H. & Co., 103 Chambers
 Rapid Transit Subway Construction Co., 17
 Reddy, Patrick, 28 W 120th Park row
 Reid, M. & Co., 114 W 39th

Reid-Palmer Construction Co., 11 E 59th
 Republic Gen. Contr. Co., 1183 B'way
 Rice, Lawrence J., 103 Park av
 Richards & Gaston, 143 Liberty
 Robinson, A. J. Co., 123 E 23d
 *Rogers, J. C. & Son, 1 Madison av
 Rogers, Geo. W. & Co. (Harbor & Dock), 44
 Rooney, Robt. J., 1245 Simpson B'way
 Russell Contracting Co., 156 5th av
 Ryan, Cornelius J., 318 W 72d
 Ryan-Parker Construction Co., 21 Park row
 Sanderson & Porter (Power & Lighting Equipment, etc.), 52 William
 Schlesinger, Jacob, 45 W 34th
 Schnaler, Robt., 957 Madison av
 Schneider, Chas. E., 167 N Findley av
 Seaboard Contracting Co., 299 B'way
 Shaniy, Edw. (Est. of), 17 Park row
 Shanley-Morrissey (Inc.), 527 5th av
 Sheehan, John C. (Public Work), 253 B'way
 Sberidan, T. A. S. Co. (Macadam, Excavating, Rock Blasting, Paving, etc.), 24
 Shields & Carter, 143 Liberty State
 Sinclair, Geo. T., 503 5th av
 Slattery, John (Sewer & Public), 368 Park
 Smith, Augustus & Co., 149 B'way av
 Smith, Clarence L. Co. (Excavating, etc.), 544 W 30th
 Smith, F. V. Contracting Co., 147 E 125th
 Snare & Triest Co. (Steel & Masonry Construction), 143 Liberty
 Soprana, P., General Contracting Co., 14
 Christy
 Spearin & Preston (Dock, River & Piling), 90 West
 Springsted & Adamson, 424 E 107th
 Staats, R. P. & J. H. (Docks, Bridges & Buildings), 29 B'way
 Stannard, Ambrose B. (Heavy Government Buildings), 1133 Broadway
 Steers, Henry (Harbor Work, Piers, Concrete Foundations, etc.), 17 Battery pl
 Stephens, Clinton, Jr. (Public Work), Clason Pt.
 Stevens, Hewitt Engineering Co. (Public Work), 15 William
STEWART, JAS. & CO. (Harbor)
 Marine & Heavy Buildings, 30 Church
 Stewart-Kerbaugh-Shanley Co. (Large), 627
 Stoddard & Hughes, 244 W 29th 5th av
 *Strang, W. B. & Co. (Railroad & Public Work), 15 Wall
 Submarine Contracting Co., 81 New
 Sullivan, Patrick, 230 Grand
 *Sundstrom & Stratton Co., 90 West
 Sutherland, Alex. M. (Street Railways, Water Works, etc.), 49 Wall
 Taylor Dredging Co., 24 State
 Terry & Teuch Co., Lex., Ave C, E 131st
 Thompson-Starrett Co. (Building Construction), 51 Wall
 Tide-Water Bldg. Co., 25 W 26th
 Traylor Engineering Co., 2 Rector
 Tulloch, David M. (Est. of) (Public Work), 130 Pearl
 Udall, Jno. C., 29 W 34th
 United Contracting Co., 3 E 116th
 *United Engineering & Contracting Co. (Railroad, Dams, Tunnels, Bridge, Difficult Foundations, etc.), 17 W 42d
 United Gas & Water Works Construction Co., 1 Madison av
 United States & Venezuela Co. (Paving, etc.), 1 B'way
 Van Wagoner-Linn Construction Co., 110 W 28th
 Vassar's G. Son & Co (Building), 1170 Broadway
 Walsh, John F., jr., 136 Charlton
 Warren-Burbam Co., 5 Nassau
 Water Front Improvement Co., 220 B'way
 Waters, Thos. J., 217 W 125th
 Watson Contracting Co., Aqueduct av nr. Kingsbridge road
 Webster, Fred'k, 16 Cedar
 Websler, Louis, 1133 B'way
 Wells Bros. Co., 160 5th av
 Wells & Newton Co., 292 Av B
WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation). (See adv. index, end of book)
 *White, J. G. & Co. (Engineers & Contractors), 43 Exchange pl
 Whitney, Steen Co. (Builders), 135 B'way
 Williams Engineering & Contracting Co., 13
 Willigan, F. T. Co., 1107 Fox Park row
 Wood, E. J. Co., 243 B'way
ZIMMERMANN, JACOB A., 505
 5th av. (See adv. index, end of book)

Borough of Queens.

FAR ROCKAWAY—Kaiser, George
 FLUSHING—Brown & Pack
 Peace Bros. (Grading, Excavating, etc.)
 Tuoby, T. F. & Co.

LONG ISLAND CITY—Braby, Jno. W., 283
 Brown, Thos. A., 699 Crescent Crescent
 Doolittle, Jno. A., 281 Borden av
 Fitzpatrick, Edward, 130 3d
 Gould-Welden Co., 142 West av
 Hill, G., 90 Washington av
 Leddy & Moore, 53 8th
 Paradise, Anthony, 98 B'way
 Quinn, H. F. & Sons, 22 Hunter's Pt av
 Stevenson, Jas. A., Jackson av
 Woodruff, C. Curtis & Co., 211 10th
 OZONE PARK—Carupella, Pasquale & Co.
 ROCKAWAY BEACH—Crabbe, Chas.
 WHITESTONE—Collins, Lawrence

Borough of Richmond.

NEW BRIGHTON—Hart, P. & Sons (Excavating & Flagging), 17 Laf. av
 PORT RICHMOND—Donovan Bros. (Public Milnes, Jno. Co. Work, Roads, etc.)
 STAPLETON—Brady Bros.
 Wolff, Philip & Son.
 TOTTEVILLE—Abrams, Andrew
 WEST NEW BRIGHTON—Attridge, Jno. F.
 Brown, A. C., & Son
 Brady Bros.
 Carlin, Thos.
 Johnson's, Joseph Sons
 Lynch, William F.
 Wheeler, James

(End of New York City)

NIAGARA FALLS—Braas Bros. Co. (Excavating, Heavy Masonry, etc.)
 Cookman, W. H. (Sewer & Public)
 Crogan, Carmine (Excavating, etc.)
 Douglas, A. C. (Shaft Sinking & Tunnel Work)
 Horn, Andrew (Excavating, Grading, etc.)
 Read-Coddington Engineering Co. (Brick & Sbepard, Wm. A. Asphalt Paving, etc.)
 NORTH TONAWANDA—Morris & Allan
 OLEAN—Dean & Havens
 OSWEGO—Barnett Contracting Co.
 PATCHOGUE—Conklin, Jas. P. & Son
 Terrell, E. G.
 PEEKSKILL—Smith, John, Jr (Excavating, Sutton, Allen L. etc.)
 PLATTSBURG—Buckley Construction Co.
 McQuillan, A.
 PORT RICHMOND—(See New York City, Borough of Richmond)
 POUGHKEEPSIE—Burgess, Jas. D. & Son
 Maloney Bldg. & Construction Co. (not inc.)
 ROCHESTER—Brayer & Albaugh (Sewer, Grading, Heavy Masonry, etc.), 27 Main, E.
 Brotsch, F. A. & Son (Street & Sewer), 826 Clinton av, S
 *Casey & Murray (Water Works, Railroad, Paving, Bridge Masonry, Street & Sewer), Powers bldg
 *Chambers & Grady (Sewer, Paving, Masonry, R. R., Waterworks, Roads & Builders), Powers bldg
 Comstock, E. A., 1030 Main, E.
 Edgerton, H. H.
 Cowles, H. N. (Sewer & Public Work), 6
 Gorsline
 Finucane, Thomas W. Co., 3 Elton
 Foery & Kastner Street), Goodman, opp. Central Park
 Friederich, A. & Sons Co., E. & B. bldg
 Fuller, Wm. (Sewer & Street), 16 State
 Gorsline & Swan Construction Co. (All kinds of Building Work)
 Hagaman, Miller & Hagaman (Sewer, etc.), 16 State
 Holahan, Thos. (Street), 164 Lewis
 Holahan & Dailey
 Hooker, H. B. & Son (Waterworks, Railroad, Sewer, etc.), Wilder bldg
 Horn, C. L. (Street, Sewer & Buildings), 309 Joseph av
 Houck, Lewis H., 361 Grand av
 Lauer, Fred O & Sons (Sewer & Street), 458 S Clinton av
 Ludington, Ira M., 627 Powers bldg
 Luther, Jno. & Sons Co. (General & Builders), 162 North
 Rapp, F. H. & Co., Granite bldg
 Ripton & Murpby (Street, Sewer, etc.), 72 Penn
 Stallman, H. P. & Son, 712 St. Paul
 Whitmore, Rauler & Vicinus (Sewer, Street, Roads, etc.), 279 South av
 SALAMANCA—*Miller, Fred
 SANDY HILL—Gilmour-Horton-Allen Co.
 Higley & Barber
 SAYVILLE—Ritch, Philip C.
 SCHENECTADY—Beckwith Bros.
 Brown & Lowe, 437 State
 Crane, T. R., Constructing Co.

Kinum, Andrew (Building & Public), 119 Park pl
 McDermott, Jno. (Building & Public), 108 Schenectady Contracting Co. Romeyn
STAPLETON—(See New York City, Borough of Richmond)
SYRACUSE—†Archbold-Brady Co. (Power & Lighting Equipment)
 Canal Quarry Co. (Breakwater, Harbor, etc.)
 *Dickson, Guy B. (R. R. & General), Klrk bldg
 Dawson Bros.
 Dunfee, Joseph (Public, Canal, etc.)
 Hemmer's, John Sons, 213 Sunset
 Leamey, J. E. & Co. (Builders & General), 1108 Grape
 *O'Brien & Hoolihan Contracting Co. (Building, Canal & Public), 1722 Park
 Sullivan, C. J., 126 S Clinton
TARRYTOWN—Duell, Jas. (Sewer, Paving & Excavating)
TROY—Corliss Construction Co. (Roads, etc.), 404 River
 Crowley, Chas. Co. (Not Inc.), 114 3d
 Hawley, Jas. C.
 Hudson Valley Construction Co., Times bldg
 Karr, Thos. H. (Roads, etc.), 708 Fulton
 Kelly, Edward, 143 3d
 Murray, Martin (Roads, etc.), 14th & Hutton
TUCKAHOE—Belieu & Merritt Co.
UTICA—Griffiths & Pierce, 72 Charlotte
 Kerner, P. & Son, 2 Canal
 Peters, Nicholas D. & Co. (Sewer, etc.), 23 Kossuth av
 Richards, R. & Son, 42 Elizabeth
 Roberts, H. W. & Co., Mann bldg
 Troy Public Works Co. (Public Work), Utica City National Bank bldg
WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
WHITE PLAINS—McCabe, W. F. (Roads, etc.)
 Merritt, Freeman H.
 O'Rourke, John
 Richards, Tony (Public Work)
YONKERS—Cahill, Daniel, 130 Elm
 Garnjost, F. A., 48 High
 Mangini, Nicholas, 177 Waverly
 Molloy, Murray & Co.

NORTH CAROLINA.

ASHEVILLE—Asheville Dray, Fuel & Construction Co.
 Revell, O. D.
CHARLOTTE—Charlotte Consolidated Construction Co.
 Jones, J. A.
GREENSBORO—Central Carolina Construction Co.
WILMINGTON—Tyler, Thaddeus F. Co. (Inc.)
WINSTON SALEM—Bowman, E. C. & Co.

NORTH DAKOTA.

FARGO—Anderson, Geo. A.
 Hogan, Andrew S.
 Jensen, H. B.
 Kennedy, James (Public Work)
 Porritt, C. H. (Sewer & Public)

OHIO.

AKRON—Carmichael, Geo. W. & Co. (Builders, etc.), Hamilton bldg
 Davidson, J. M. (Sewer, etc.), 367 S B'way
ALLIANCE—Devine, J. C. (Paving & Railroads)
BARBERTON—*Paul & Henry Construction Co. (Steam Shovel & Municipal Work, etc.)
BELLAIRE—Hollarback & May Contract Co. (The)
CANTON—Downs & Campbell (Paving, etc.) Metropolitan Construction Co.
 Skeeles, John (Excavating), 735 S Market
CHILLICOTHE—Paff & Smith
CINCINNATI—Bantley, Henry, Spring Grove av, Winton pl
 Bolan, J. M. (Street), 1466 State av
 Broeman, Frank (Street, etc.), 3140 Gaff av
 Buckeye Wrecking & Salvage Co., 959-67 W 7th
 *Caruso, Anthony Bro. & Co., 209 W 3d
 Colter, Archibald (Street), Vine & Longworth
 Coyle, Joseph, 1527 Chapel, W. H.
 Drach, Louis Construction Co. (General), Temple Bar
 Evans, Evan (Sewer, etc.), 1226 Ida
 Fogarty, Wm. (Grading, etc.), 2550 Burnet av
 Folz, Frank W. & Co. (Paving, Sewer & Public), Dayton & Freeman av
 Funke, John (Excavating, etc.), 2466 McMicken av
 *Gest, G. M. (General), Union Trust bldg
 Glandorf, C. H. (Pile Driver & Public), 8th & Plum
 Glazer, W. A. & Co., 703 Reading rd
 Gleason, Patrick (Street), 1906 Highland av

Goodman, John & Co. (General), 2133 Florence av
 *Gordon Engineering Co., Cement & Brick Builders' Exchange
 Hazen, L. P. & Co. (Heavy Buildings & Public Work), 1610-20 Reading rd
 Heffron, Wm. Construction Co., Neave bldg
 Henkel, August J., Mercantile Library
 Hoke Bros. Bldg. Co., Allen Bldg.
 Hummel, David Building Co. (Masonry, etc.), 2629 Spring Grove av
 *Keystone Construction Co., Traction bldg
 Kirchner Construction Co. (General), 8th & Plum
 Maione, Thomas (General), 1858 Forest av, W. H.
 Meier, Chas. (General), 3846 Colerain av
 Nave, E. C. Bros. Co., 617 Johnston bldg
 Pachoud Bros., 1037 Gilbert av
 Quill & Poos, 918 Morris
 Roblison, O. E. (General), 4647 Hamilton av
 Roche-Bruner Building Co., Johnston bldg
 Ruebel, Jno. & Bro. (Street), Atlas Bank bldg
 Sheridan-Kirk Contract Co. (Government & Dredging), Mercantile Library bldg
 Smead, Isaac D. & Co., Com. Tribune bldg
 Strack, Thos. P. (Street & Sewer), 330 W. 9th
 Sullivan, Michael & Sons, Montgomery & Todd rds (Silverton)
 Walker, Geo. P. (Sewer), Carlisle bldg
 Wiese & Hanley (Grading, etc.), 1239 State
 Wright, Chas. L. (General), Custer, s of Observatory rd
CLEVELAND—American Cons. Co. (River & Harbor Improvement, etc.), Rockefeller bldg
 American Contracting Co. (Bridges), Osborn bldg
 Anders, Carl, 12567 Clifton boul, Lake-Andrews Bros., Schofield bldg wood
 Austin, Samuel & Son Co. (General), 4401 B'way, S E
 Baldwin Bros. & Graham (Paving, Sewer, Water Works, etc.), Rose bldg
 Beers & Doolittle, Soc. for Savings bldg
 Buckeye Contracting Co., Cuyahoga bldg
 Burgess, C. H. (Paving & Public), Lennox
 Burkhardt, Christian (Sewer), 1331 W 83d, N W
 Burnett, Rollin P. (Paving & Sewer), Society for Savings bldg
 Burtcher, Jos. I. (Sewer), 2197 E 36th, S E
 Campbell, M. P. (Sewer, Grading, etc.), 11225 Detroit av
 Carey Construction Co. (Heavy Masonry, etc.), Electric bldg
 *Carter Construction Co., Citizens bldg
 Clements Bros. Construction Co. (Paving, Sewer & General), Colonial Arcade
 *†Cleveland Construction Co., Citizens bldg
 Cleveland Trinidad Paving Co., 420 Lakeside av
 Collier, H. J. Co., Garfield bldg
 Connelly, J Construction Co., 2215 E 40th S. E.
 Cook & Grant, 204 Eberly bldg
 Culbertson, H. E. & Co., Citizens bldg
 Dall, Andrew & Son (Builders), 121 Lakeside av
 Dautel, L. & Son (General), 5710 Hough av, N E
 Davis, Joseph C., Garfield bldg
 Faragher, Burton P., Rose bldg
 Fath, C. H. & Son Construction Co. (Masonry, Pile Driving, etc.), Electric bldg
 Firchow, Julius P. Contracting Co., 1234 N 3d, N E
 Gawne, W. J. Co. (Public Works, etc.), Citizens bldg
 Gebhardt, E. W., 5703 Linwood av, N E
 Gill, Jno. & Sons (Builders & General Contractors), Citizens bldg
 Grant, Jno. & Son Co., Schofield bldg
 Graves, E. M., Commercial Bank bldg
 Great Lakes Dredge & Dock Co. (River & Harbor, Bridges, Foundations, etc.), Williamson bldg
 Griesse, D. C. & Walker Co. (General), 1417 Prospect av, S E
 Griffin, C. N. & Co. (General), 2164 Ashland rd
 Griffin-Watterson Construction Co., Builders Exchange
 Henahan & King (General), Builders' EX
 Hunkin Bros. Construction Co. (Breakwaters, Piers, Buildings, etc.), Cuyahoga bldg
 Kemsies, F. Albert (General), Schofield bldg
 Koblitz, I. & Son (Sewer), 1305 Prospect av, S E
 Lindhorst, F. & D. (General), Superior bldg
 McManus, Thos. J. (Grading, Paving, etc.), 1785 E 93d, N E
 MacKenzie, L. W. (General), Park bldg

*Marsch, John
 Nlms, W. A. Co., Williamson bldg
 Northern Ohio Paving & Construction Co. (Concrete, Grading & Paving, etc.), Arcade bldg
 Paul, Wm. T. & Sons, 1865 E 81st, N E
 Pierce, John Co., Rockwell av, s w cor 3d (E)
 Phillips & Bixel (Waterworks, Sewers, Grading, etc.), 235 Superior av, N W
 Reaugh Construction Co. (Paving, etc.), Garfield bldg
 Reserve Construction Co. (Sewer, etc.), 1694 W 25th
 Samman, Peter, Williamson bldg
 Schade, Jacob (General), Chamber of Commerce bldg
 Schmeller, Jno. (General), 3341 Seymour av, S W
 Siatmyer, Henry G. (General), 203 Lakeside av, N W
 Spence Bros. Construction Co. (Grading, Paving, Sewers, Macadam Roads, etc.), 12409 Euclid av
 *Standard Contracting Co. (Railroad & General), Wade bldg
 Standard Engineering Co., Garfield bldg
 Standard Paving Co., Electric bldg
 *Strong, C. H. & Son (Dredging, Steam Shovels, Bridge Masonry, Docks, etc.) Cuyahoga bldg
 Stroud, E. G. Co., Rose bldg
 Tausch, Wm. F. (General), Williamson bldg
 Thompson, Waiter I. & Son (General), 5015 Euclid av
 Townsend, W. J. Co. (Sewer & Street Improvement), 10700 Drexel av, N E
 *Tuttle, I. D., Blackstone bldg
 Velotta, Pasquale (Sewer, etc.), Williamson bldg
 Vogel, Fred. H. (General), Citizens' bldg
 Water Works Construction Co., Citizens bldg
 Watterson, Henry (General), Citizens' bldg
 Watterson & Clague, 7119 Carnegie av, S E
 Whitton Construction Co. (General), Schofield bldg
 *Williams Bros. & Morse Co. (R. R. Work, Heavy Masonry, etc.), Builders' Exchange
 Wilson, I. V., 4609 Euclid av
 Wood, Thos. (Sewer, etc.), 110 Prospect av, N W
 Young, Wm. C., Citizens bldg
 Younger & Farmer Co., 1670 Crawford rd, N E
COLUMBUS—Abbott, Nathan B. (Paving, etc.), 85 N High
 *Adams, J. T., Columbus Savings & Trust Building, J. L. Construction Co., Hayden
 Beard & Jacques, 259 S Pearl bldg
 Buckeye Engineering & Construction Co., Union National Bank bldg
 Burns, Michael J., Board of Trade bldg
 †Capitol Construction Co., Ruggery bldg
 Cherry, Wm. W. E., 40 W. Main
 Cooke & Grant (General), Eberly blk
 Evans, R. H. & Co., Columbus Savings & Trust bldg
 Hegelhelmer, Chas. G., Co., 446 E. Rich
 *Jones Bros. (General, Railroad, etc.), Harrison bldg
 *†Luchtenberg, Wm. H. & Co. (Paving & Public, etc.), The Wyandotte
 McGrath, Daniel W. (Sewer & Masonry), New First National Bank bldg
 Murphy & Miles, Columbus Trust bldg
 *National Engineering Co. (Railway & Municipal), Brunson blk
 Pugh, A. G. (Paving, Sewer, etc.), Union National Bank bldg
 Shaw, H. J., Outlook bldg
 Smith, Walker, Hayden bldg
 *Sturm, Lloyd E., The Wyandotte
 Sullivan, D. E. & Son, Columbus Trust bldg
 Westwater & Casey (Sewer, etc.), Wyandotte
 Wright, R. C., 801 N High
DAYTON—Beully, A. & Son
 Dayton Construction Co.
 Dayton Railway Construction Co.
 Fauver, E. H. & Co.
 Fox, Al. S.
 Hall-Cronan Co.
 Hoglen, Chas. H., 44 S Hopeiland
 Luster, Wm. W.
 Noel Construction Co. (Large)
 Reese & Larkin
 Requarth, F. A., Co. (The), Monument av & Sears
 Shoup, J. O. & Co.
 Stilwell, W. F.
 Talbott, H. E. & Co. (Heavy Masonry, Concrete Work, etc.), 1020 Reibold bldg
 Tejan, Frank (Excavating, Grading, etc.), 16 N. Edgar
FINDLAY—Hall, C. B. & Son (General)
GREENVILLE—Irwin Bros.

HAMILTON—Andrews, R. N. Co. (River & Davis, Frank J. Harbor)
Hamilton Construction Co. (Sewer, Gas Main, Water Works, Paving, etc.)
IRONTON—Tri-State Improvement Co.
LANCASTER—Crook, J. Carl
Mowery & Darbyshire
MANSFIELD—Cotter Transfer & Storage Co. (Excavating, etc.)

*Frances, E. H. Sons (Railroad, etc.)
MARIETTA—Dickson, Beardsley & Foreman Dowling, C. W.
MARION—Drake, P. & Sons
Hoffstetter & Dawson (Sewer, Excavating, Hummer Construction Co. etc.)
Kelly, P. & Co. (Public Work)
Lemmer & Bland
Price & Hurley (Sewer, etc.)
Stafford, William O.
MASSILLON—Meinhart, John, & Son (Street & Public)
Vogt, W. H. & Son (Street & Public)
MIDDLETOWN—Arpp, John (Sewer)
NEWARK—Palmer Bros.
NEW PHILADELPHIA—Westhafer Cons. Co.
NILES—Mango, V., & Co. (Large Paving, etc.)

PORTSMOUTH—Kaps Bros. (Heavy Masonry, Kelly Bros. etc.)
Monroe, Samuel & Son (Sewer & Public)
Nave, E. G. Bros. Co. (Heavy Masonry & Bridge Work, etc.)

Nave-Ryan-Curtis Construction Co.
SALEM—Buell, Samuel (Sewer & Public)
SPRINGFIELD—Champion Construction Co.
Huncker & Williams (Sewer, etc.), 141 S Limestone

Ryan, Edw. (Paving & Public), 101 Clifton
STEUBENVILLE—McDonald, Andrew W.
TOLEDO—Beach, J. J. Grading), 1918 Wayne
Bick, Jacob N. (Trestles, Foundations & R. R.), The Nasby

Bodette, George H., 22 Columbia
Breyman & O'Neill, Sewer, etc.), St. Clair bldg

Bright, Wm. W. (General), 2030 Adams
Cariand, J. C., & Co. (Railroad & Public Works), Spitzer bldg

*Craig, George A., Nicholas bldg
Dixon Engineering & Cont. Co., 323 Huron
Garrigan Bros. (Paving & General), Valentine bldg

Hattersley Construction Co. (General), Gardner bldg
Hermann, C. C. J. (Sewer), 1080 Fernwood av

Horan, Jas. H. (Paving, etc.), The Valentine
Jones, Robert J. (Excavating), 816 Ambia

Kelly, T. J. (Sewer), 626 Avondale av
Kerlin Bros. Co. (Paving & General), Nasby
Knopp Bros. Co., 1415 Oak bldg

McKinney Bros., Nasby bldg
McLain, E. A. (Sewer), 958 South
Manor, Jos. J. (Excavating, Grading, etc.), 1318 Ewing

Milner, C. J., & Co., 107 Chamber of Commerce

Neukom, Albert, 140-50 Ottawa
O'Sullivan, M. F. (Sewer), 145 Oak
Rabbitt, Michael & Sons Co. (General), The Nasby

Reamsnyder, Geo. (Sewer), 810 Lorain
*Sawyer, C. H., St. Clair bldg

Schultz, Chas. (Sewer & Paving), 723 Te-Seagrave, Frank E., The Spitzer cumseh
Sheehan, Henry (Sewer), 1208 Collingwood av

Schillinger Bros. Co. (Asphalt & Concrete Pavements), 215 City Park av
Spear, N. J., west of Central av.

Spieker, Henry J. Co., 409 Michigan
Streicher, H. P., & Co., Spitzer bldg
Thacher, A. Q. & Co. (Dredging, Submarine Work of all Kinds, Heavy Masonry, etc.), Marine bldg

Toledo Construction & Supply Co. (Paving & Sewer), Nicholas bldg
*Toledo Interurban Construction Co., 307

VAN WERT—Ireland, C. L. Superior
YOUNGSTOWN—*Joyce, M. J.
Niedermeyer & Restle

ZANESVILLE—Adams Bros. Construction Co.
Evans, R. H. & Co. (Sewer, etc.)
Fogarty, Thos. H.

Price, J. D.
Townsend, Frank M. (Railroad & Masonry)
Townsend, T. B. Brick & Contracting Co. (Sewer, etc.)

OKLAHOMA

OKLAHOMA—Anderson, T. R. Contracting Co.
Gross Construction Co.
O. K. Building & Construction Co.
Parks-Washington Co.

OREGON.

ASTORIA—Ferguson & Houston (General)
Lebeck, Leander
PORTLAND—Brooks & Downing
Columbia Contract Co., Commercial blk
Cook, C. J. Co., 55 5th, N
Findley, Felix
Gardner & McLennan
Gieblisch & Joplin (Grading, etc.), 1 E 30th
Joplin & Meeks (Grading), 9 E 30th
Kern, Daniel
McInnis & Reed
Miller & Bauer, Abington bldg
O'Neil, John B.
Pacific Bridge Co., Mohawk bldg
*Pacific Coast Construction Co.
Paquet, Jos.
St. Helms Quarry Co.
Smith, B. F.
Standard Construction Co.
Steele, W. B. Construction Co.
Wakenfield, Robert
Warren Const. Co., Oregonian bldg

PENNSYLVANIA.

ALLEGHENY—Berg & Melville, ft of Craig
Brogan, E., 1215 Franklin
Clark Bros. Co., Preble av & Bayard

Cochrane, George A. & Co., 1210 Washington av

Frederick Bros. (General), 1914 Beaver av
*Gwinner, Edw. W. (General), 1801 Market
Hughes, Philip F., 1310 Federal

McCain, S. H., 1300 Veto
Morrison Bros. Co., 459 South av
Purnell, A. V. (General), 507 Jackson

Rose & Fisher (General), 821 Penna av
Trimble, W. F. & Sons Co., 1719 Greenwood
Wherry, Jas., & Co. (General), 857 North av

ALLENTOWN—Cassone, Wm. D. (Excavators for R. R., Quarries, Bldgs., etc.)
Hardner, Geo. H. (Sewers, Bridges, Macadam, Brick Paving, etc.)

Snyder, Jos. P. (Excavating & Cellar), 222 N 12th

Weaver Contracting Co. (General), 1306
ALTOONA—Altoona Construction Co. Gordon
*Finn Engineering Co.

Hughes, Clifton D.
Seedenburg & Fouse
Vipond Construction Co. (Sewer & Public)

Zimmers, Geo. A.
ARDMORE—Mahan, Frank H.
BRADDOCK—McAdams, William, Sr.

McCady Bros. Co. (Paving, Sewer & Excavating)
CARBONDALE—Atkinson, Hugh
CARNEGIE—Dunshane & Lewis
McClintic-Marshall Const. Co.

CATASAUQUA—†Emanuel & Co. (Builders & Public Work)
CHAMBERSBURG—Nelson - Merydith Co. (Building)

CHAMBERSBURG—Nelson - Merydith Co. (Bridge Work, Reinforced Concrete Road Building)

CHESTER—Dickerson Paving & Construction
Hamilton, James M. Co.
Hanna, Jno. & Sons (Street Improvement, Excavating, Grading, Sewer, etc.)

Holcroft, W. H. & Co.
Morris, H. Lewis
Nolan Bros. (Builders, etc.)

Robinson, James (Sewer, etc.)
COATESVILLE—Dunleavy Bros. (Railroad & Excavating)
Thompson, W. A. P.

CONNELLSVILLE—Connellsville Construction
Marletta, Marcus Co.

DUNMORE—Oakley, C. D.
Gibbons, Martin.

ERIE—McCormick, Jno., & Sons (Paving & Public), 645 W 10th
Mayer Bros. (Paving & Road), 1213 State

*Mayer, Henry
Shenk, Henry Co. (Builders & General Contractors)

FRANKLIN—Corrin & Wilt
Osborne, Edwin
Osborne, John

GALETON—Creco, Frank
GREENSBURG—*Bennett & Talbott (Railroad & Public)
Coulter & Furtwangler

Stark, H. F.
Westmoreland Construction Co.
HARRISBURG—Gettys & Girvin

Kamerer, Andrew, N 9th nr Market
Markley, W. D., 541 Woodbine
Schuddege, Harry

Stapf & Benfer, 23 S 3d
Stucker Bros. Construction Co., 15 N. 2d
United Ice & Coal Co., Cowden & Forster

HAZLETON—Boyle, P. F.
Crellin, Jno. W. (Masonry & Excavating)
Cuyie, N. J. Son

HILLMAN—*McMenamin & Sims (R. R., etc.)
HOMESTEAD—Erbeck, F. J. (Paving & Public)
INDIANA—Bennett, M., & Sons
LANCASTER—Fritchey, J. U. & Son (Paving Gesell, Geo. & Sewer)
Hook, Jno. H. (Sewer & Public), 431 W Lemon

McMellen, Elias (Bridge, Masonry & Builder)
Oster, Wm. M. (Paving, etc.)
Wohlsen, Wm., & Son

LEWISTON—Ahrens Construction Co.
Steinbach-Billmeyer Co.

LOCK HAVEN—*Miller Construction Co.
Salmon, David

McKEESPORT—Bowman Bros. (Paving, Oliver, Robert Street, etc.)
Werthenbach, John H.

McKEES ROCKS—Herbst, J., Lumber Co.
MAHANOEY CITY—Dononue, John
MEADVILLE—McGuigan, Thos. (Sewer & Public)

Robinson, Fred'k (Sewer, Paving & Excavating)
NEW CASTLE—Huey, Samuel R. (Heavy Kline, H. Masonry, etc.)

NORRISTOWN—Dyer, Jno. T., Quarry Co. (Railroad & Public Works)
OIL CITY—Allen & Meals Co.

PHILADELPHIA—American Dredging Co. (River & Harbor), Mariners' & Merchants' bldg
American Pipe Mfg. Co. (Water Works), Fidelity Mutual Life bldg

Armstrong & Latta (Dock, Harbor & Public), Land Title bldg
Atkins, Edward, 1221 Arch

Barnes, Winfield S. & Co., Witherspoon bldg
Barret, G. McN., 5306 Magnolia, Gtn.

*Boas, F. J., 14 S Broad
Bowers Bros. Co., Real Estate Trust bldg
Brady-Dackert Co., 1118 Chestnut

Brann & Stuart Co., Arcade bldg
*Brendlinger, P. F., Arcade bldg
Brocklehurst, Harry, 512 W Norris

Brown, John G. (Contractor & Engineer), Witherspoon bldg
†Brubaker, G. S. W. & Co., Witherspoon

Byers & Clarkson, 806 Walnut bldg
*California & Texas R'y Construction Co., 28 S 15th

Cherokee Construction Co., Girard bldg
*Clement, F. H. & Co. (R. R., etc.), Land Title bldg

Columbia Contracting Co., Arcade bldg
Connor, Thos., 3333 N 5th

Cornell, J. S. & Son, Land Title bldg
Courtenay & Son, 1305 Arch
Craig, Charles (Excavating, etc.), 2632 Columbia av

Cramp & Co. (Builders, etc.), Commonwealth bldg
*Crossan Construction Co. (Railroad), Land Title bldg

Cunningham & Murray, 1345 Arch
Denbeigh Construction Co., Land Title bldg
De Zouche-Hanson Co., Arcade bldg

Dickerman & Yeakley, 26th & Susquehanna av
DOAK, JAS. G., & CO. (Large, Building & General), 1420 Chestnut. (See adv. index, end of book)

Dougherty, Wm. R., 1604 Sansom
DOYLE & CO. (Builders, etc.), 1519 Sansom. (See adv. index, end of

*Drake & Stratton Co., Penn bldg book)
Du Page Construction Co., Witherspoon bldg

Dutton, Wm. H., & Bro., 411 So. 5th
Eyre-Shoemaker (Inc.), Arcade bldg
Finlay & Belfield, 130 N 12th

Foley & Co., 2528 Washington av
Fonder, Edw. F. Co., Land Title bldg
Fretz, A. I. & Son, 1222 Chancellor

Gilbert, Edwin & Co. (Builders, etc.), Weightman bldg
Glenn, Geo. A. & Co., 930 N 8th

Goll, Jno. & Co. (Railroad, Bridge, etc.), Greiner, J. H., Heed bldg 1539 Filbert

Guenther, Otto A., 2102 Sedgley
Hanlon, John F., Co., Witherspoon bldg
Harris, Franklin M. & Co., 1820 Wylie

Havens, Herbert E., Girard Trust bldg
Hedden, E. J., 14 S. Broad
Heinicke, H. R. (Inc.), Drexel bldg

Henderson & Bro., S 25th, below Spruce
Hennebique Construction Co., Witherspoon bldg

Hill, Malcolm W., Co., 1503 Sansom
Hoffman Engineering & Contracting Co. (Bridge & Public), Penna. bldg

Holt, Henry, 30th & Race
Keenan, D. Frank, Arcade bldg
*Keenan, D. F. (Railroad, etc.), Arcade bldg

*Kerbaugh, Henry S. (Inc.) (Heavy Grading, Track Laying & Bridge Masonry, etc.), Arcade bldg

Kessler, Geo., 931 Drexel bldg
 Lathbury, Benj. B., 1531 Land Title bldg
 Latta & Terry Construction Co., Penn. bldg
 Lynch Bros., Lippincott bldg
 McCaul, Charles, Co., 10th, cor Sansom
 McClellan, H. A. & Bro. (Excavating, Grading, etc.), 13th, cor Shunk
 McCormick & Co., Rothschild bldg
 McDermott Contracting Co., Penna bldg
 *McGaw & Gray (Masonry, Grading, Bridges, R. R., etc.), Penn. bldg
 McGlathery, Joseph, 430 Walnut
 McGraw, James Co., Arcade bldg
 McHugh, M. & J. B. (Sewer, Paving & Municipal Work), Witherspoon bldg
 McLean, Wm. & Co., Harrison bldg
 McMahon, David (Street), 7 E Chelton av
 McManus, M. Contracting Co., 414 Wood
 *McManus, Patrick, 3201 Winter
 McManis & Sims, Arcade bldg
 McManis, John, Harrison bldg
 McNichol, Jas. P. & Bro. (Public Work), Betz bldg
 *McNichol, Patrick & Sons (Public Work), 1316 Race
 Magee's, William Sons, 7121 Gray's av
 Mark, Frank, 2800 N 21st
 *Millard Construction Co., Penn. bldg
 Monday, Chas. E. & Co., 1318 Olive
 Monks, John & Sons (Inc.), Stephen Girard bldg
 Moore, Samuel E. (Builder, etc.), 1221 Arch
 Mullen, Jas. A. (Masonry & Grading), 5512 Vine
 Myers, Jacob & Son, Witherspoon bldg
 *Nusbaum, Elias & Bro., 1519 Moravian
 Parker, Thos., 530 Heed bldg
 Penna. Engineering Co., 312 Cherry
 Peoples Bros. (Heavy Masonry, Sewer, etc.), Callowhill & 25th
 Pepper, David, Jr. (Engineer & Contractor, Water Power Plants, Electric Roads, etc.), Land Title bldg
 Peterson, R. Morris, 5250 Wakefield, Gtn.
 Peterson, R. W. Co. (Street & Public) Land Title bldg
 *Pinkerton Construction Co. (R. R. Masonry, etc.), Land Title bldg
 Porter, Chas. A., 804 Girard bldg
 Quigg, Wm. H., 112 N Broad
 *Railroad Construction Co., Land Title bldg
 *Register, A. L. & Co. (Contractors & Engineers), Fidelity Mutual Life bldg
 Reilly, Thos., 1616 Thompson
 Reilly & Welber, Harrison bldg
 *Reiter, Curtis & Hill (Sewer, Paving, R. R. & Public), Arcade bldg
 Roydhouse, Arey & Co. (Building & Heavy Masonry), Fidelity Mutual Life bldg
 Ruch, Geo. W. & Co. (Paving & Excavating), 2851 N Hutchinson
 Ryan & Kelley (Public & Municipal), Penna. bldg
 Sax & Abbott Cons. Co., 1326 Chestnut
 Scofield Co. (Engineers & Contractors), Penna bldg
 *Shanley, J. F., Co. (R. R. & Public), Arcade bldg
 *Sims, Chas. A. & Co. (Railroad, Water Work, etc., & Public Work), Harrison bldg
 *Smethurst & Allen, North American bldg
 *Smith, E. E. Contracting Co. (R. R. & Public), Arcade bldg
 Snyder & Co., Harrison bldg
 *Sparks & Evans (Bridge, R. R. & Public), Rothschild bldg
 Steele, Wm. & Sons, 1600 Arch
 Still, Wm. H., 8503 Gtn. av, C. Hill
 Stitzer, Jas. Herbert, Jr. (Buildings, Foundations, Reinforced Concrete, Municipal Work, etc.), Commonwealth Trust bldg
 Sutch, Daniel K., 1515 No. 12th
 Thompson-Starrett Co. (Building Construction), North American bldg
 Turnbull Construction Bldg., Penn. bldg
 Union Electric Construction Co. (Underground System), Bourse bldg
 Vane Bros. (Sewers, Conduits, etc.), Betz
 Vogt & Golden, 2900 N 22nd
 Warner, George C. (Excavating, etc.), 364 E
 Wiggins, John R., 1215 Filbert Penn
PITTSBURG—Abel, A. F. (Pile Driving, Trestles, etc.), 321 Water
 Alberts, W. E. Co., 6019 Kirkwood
 Anderson Bros., 2518 Hallet
 Ansell, Horace, 1 Ansell av
 Barr, J. T., 309 4th av
 Bartley, A. C. (Excavating, etc.), 4801 Penn av
 Bartley, J. C. & Son, 7339 Denniston av
 Bennett, Wm. B., 742 N Negley av
 Bollinger-Andrews Construction Co., Empire bldg
 Bollinger Bros. (General), Fulton bldg
 *Booth & Flinn (Paving), 1942 Forbes

Booth & Reichard (General), 6427 Franks-town av
 Buhner, Herman & Co., Second National Bank bldg
 Charlem, Theodore, 1304 Locust
 Chisholm, W. M., 331 4th av
 City Contracting Co., 341 6th av
 Clifford, John R., 741 Bryn Mawr rd
 Collins-Gordon Contracting Co. (Masonry, etc.), 407 4th av
 Corcoran, Jas. G. Co. (General), House
 Cranford Paving Co., House bldg
 Cronin, Thos. & Co. (Paving & Sewer), 227
 Cummings, Robt. A., 316 4th av S 17th
 Cuthbert Bros. Co. (Furnace Builders), Bessemer bldg
 Dravo Contracting Co. (Heavy Masonry, Shaft Sinking & Government Work, etc.), Lewis blk
 Driver, Chas. M. (Sewer & Masonry), McCance blk
 Duquesne Construction Co. (General), Bessemer bldg
 Eder Construction Co., Ferguson bldg
 Egan, Chas. (Excavating, etc.), 1126 Vickroy
 Egan, Thomas J. (Grading), 1721 Bluff
 Enterprise Contracting Co. (Masonry, Trestles, etc.), Fulton bldg
 Fair, D. M. & Son (General), 6101 Penn av
 Felkel, F., & Son Const. Co., 1234 Greenfield av
 *Ferguson Contracting Co., Keystone bldg
 Fishburn, Wm. C., 323 Mathilda
 *Foley Contracting Co. (General), 12 Wash
 Francies, H. H., 906 Adelaide bldg
 Friday Contracting Co., 331 4th av
 Grist, Stephen F., Bissell blk
 Hagy, Elwood K., 5518 Claybourne
 Henderson, John T., 139 Beltzhoover
 Heyl & Patterson (Inc.), 53 Water
 *Howley Construction Co. (R. R., etc.), 237 4th av
 Howley, Wm. E. (General), Frick bldg Annex
 Ingersoll Construction Co., Keystone bldg
 Iron City Construction Co., 108 Whitfield
 Jenkins Bros. (Excavating & Grading), 3312
 Keeling, Jos., 5845 Centre Penn av
 Kerr's, Wm. Sons (Large Builders), Lewis
 Krall, John H., 7016 Hermitage blk
 Krantz & McCoy (General), 365 Soho
 Lambie, C. S. & Co., 331 4th av
 Lawton, Alfred, 929 Adelaide
 Loungeay, Robert P., Douglas & Shady avs
 Lucius Co. (Sewer, etc.), Hartje bldg
 McClellan, J. E., 355 N. Craig
 McKnight, Alex. (General), 4591 Forbes
 McLaughlin Contracting Co., 223 4th av
 *McNally, Thos. Co. (R. R., Masonry, Paving, Sewer, etc.), Bates & 2d av
 McQuade, Jas. H. Co., 7 Wood
 McSpadden, J. C. (Public Work), 326 4th av
 Miller, Wm. & Sons Co. (Builders & General), 530 Federal
 *Moran, P., & Co., 5846 Bartlett
 Moran-Phelan Contracting Co. (General), Keystone Bank bldg
 Mullen, John L. (General Rigger), Union
 Murdoch, Wm. H., Lewis blk Nat'l B'k
 Murphy & Hamilton, Heeren bldg
 O'Herron, M. & Co. (General), 1st & McKean
 Ott Bros. (Sewer, Paving, Macadam, etc.), 414 Wash'n av
 *Patterson & Co., Keystone bldg
 Payne, Wm. J. & Sons Co., Beltzhoover & Washington avs
 Pennsylvania Contracting Co., 209 9th
 Pershing, D. W., 935 N. Negley av
 Pihl & Miller, Washash bldg
 Platt Construction Co., Fulton bldg
 *Pittsburg Construction Co. (Round Houses, Mill Building, Grading, Masonry, etc.), Diamond National Bank bldg
 Rahe, Joseph, Co., 416 Bingham
 Richmond, Andrew & Son, 541 Wood
 Ridge Bros. Co., 407 4th av
 Riffle, David T., Keenan bldg
 Robinson, Wm., 310 Meyran av
 Sawders Paving & Construction Co. (Sewer, etc.), Frick bldg
 Scanlon, Eugene (Excavating, etc.), 6233 Station
 Scanlon, John T. (Excavating, etc.), Cable pl & Melba
 Schmunck, G. Henry, 519 Lewis bldg
 Scott, John F. & Co., 219 6th
 Sharp, J. P., N Euclid & Broad
 Sheets, J. B. & Co. (General), Kelly & Murtland
 Shenk, Henry Co. (Builders, etc.), Lewis blk
 *Sims, Chas. A. & Co. (Railroad & Public), 1230 Fulton
 Smythe, S. R., Co., 213 House bldg

STEWART, JAS. & CO. (Harbor, Marine & Heavy Buildings), Westinghouse bldg
 *Stratton, Lewis & Co. (Public Work), 327
 Stuart, James L., 341 6th av 1st av
 Sweeney, Thos. Co. (Sewer), 4906 Cypress
 *Tennis Co. (R. R. & Public Work), Magee bldg
 Thompson-Starrett Co.
 Umstead, J. C., Bakewell bldg
 Vollkommer & Co., Empire bldg
 Waite, Wm. & Sons, 2500 Jane
 *WESTINGHOUSE ELECTRIC & Mfg. Co. (Electric Power Installation), Union Bank bldg. (See adv. index & branch offices, end of book)
 Wilcox, E. C., 205 Mathilda
 Wilson, A. & S. Co. (Large Builders, etc.), 541 3d av
 Wineland, J. F., & Co., 339 5th av
 Wyman, J. G. & Co. (Excavating & Grading), 434 4th av
 Wymard, John K. (Paving & General), 915 Gerritt
 Zahniser, W. J., & Bro., 4326 Butler
 Zehnder, Wm., 1341 Point View
PITTSBURG—Breuton, William C.
 O'Boyle & Foy
POTTSTOWN—Missimer, Horace H.
 *Willauer & Co. (Railroad & Public Work)
POTTSVILLE—Kerns, Thomas F. & Son
 King, Charles F.
 Portland Contracting Co.
PUNXSUTAWNEY—Harl, D. McKean & Son
 Reese, Hiram
READING—Ahrens, Howard E., Co. (Stone, etc.), 622 Court
 Dechant, Wm. H., 536 Penn
 Faust, John K.
 Fisher, Charles H., 2d c Chestnut
 Focht, L. H. & Son (Builders, etc.), Baer bldg
 *Hawman Bros. (Public Work), 13 S 10th
 *Hawman Construction Co. (R. R. & Public), 231 S 4th
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 Mayer, Jacob (Masonry & Excavating), 132 Penn
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 Rehr & Fricker (Large Builders, etc.), 124
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SCRANTON—Burke Bros., Connell bldg
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 Deubler, M. L. Co.
 Fitzpatrick & McConville
 Flanagan, John (Sewers), 100 Hampton
 Hower & Stender, Jefferson av & Ash
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 Curtis, John, & Co.
 Dickover, George T., & Son (Heavy Masonry, etc.), Simon Long bldg
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 Long, E. T., & Co.
 Shiber, Charles C.
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 Peffer, E. Z.
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 Busch & Stewart
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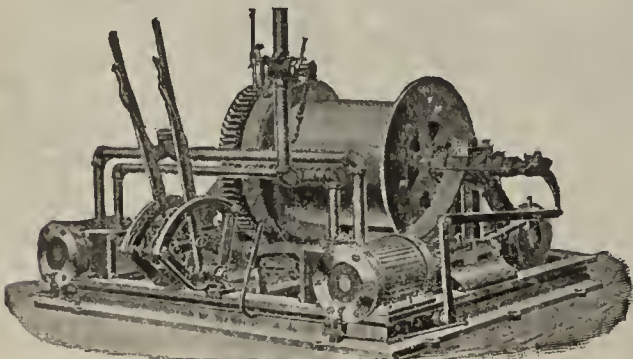
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(See Regulators, Heat)

*Controllers (Drum, Electric)

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 Ideal Electric & Mfg. Co. ("Ideal"), Mansfield, O.
 Keystone Elevator Inspection & Repair Co. ("Sundth"), 1001 Chestnut, Phila., Pa.
MARINE ENGINE & MACHINE CO. ("Jones"), Main Office: 230 W 13th, New York; Works: Harrison, N. J. (See adv. index & branch offices, end of book)
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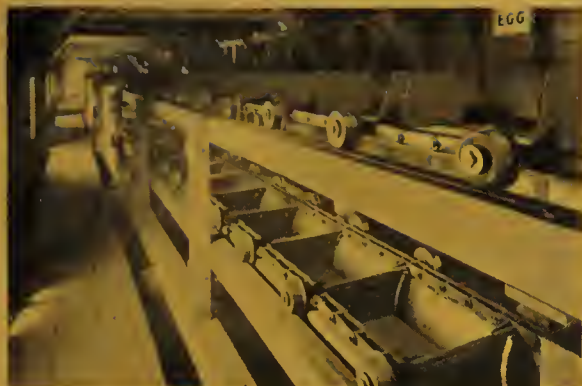
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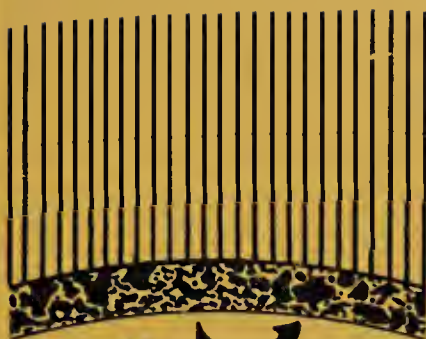
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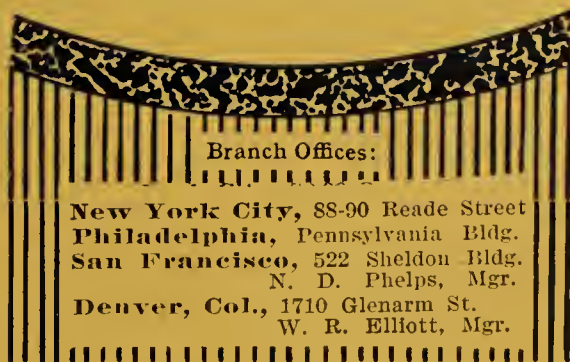
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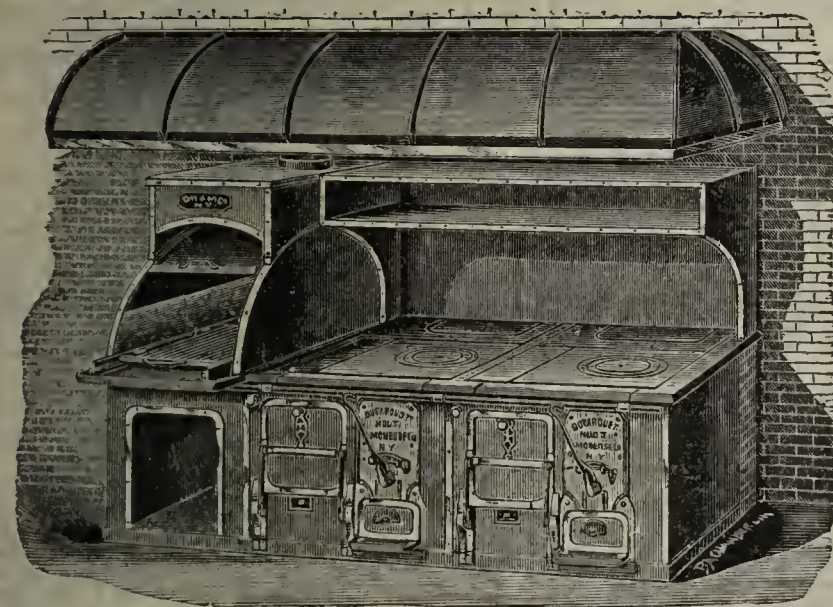
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Keyser bldg, Baltimore, Md.

Mallinckrodt Chemical Works, St. Louis, Mo.

Nichols Copper Co., 25 Broad, New York

Copper (Tinned)Hussey, C. G. & Co., 2850 2nd av, Pittsburg,
Pa.**Copper Trolley Wire**

(See Wire, Trolley)

Copper Tubes

(See Tuhing, Brass & Copper)

**Copper Ware (Stamped, Plated,
Etc.)**

(See also Enameled Hollow Ware)

Atlantic Stamping Co., Rochester, N. Y.

Lalanc & Grosjean Mfg. Co., 19 Cliff, New
York

Manning, Bowman & Co., Meriden, Conn.

Rome Mfg. Co. (Tea Kettles, Coffee Pots,
Bollers, etc.), Rome, N. Y.Sweeney, W. H. Mfg. Co., 66 Water, Brooklyn,
N. Y.**Copper Wire**

(See Wire, Brass & Copper)

Copper & Brass (Sheet)Ansonia Brass & Copper Co., Ansonia, Conn.,
& 99 John, New YorkBaltimore Copper Smelting & Rolling Co.
(Copper Only), Baltimore, Md.Bassett-Presley Co., Western Reserve bldg,
Cleveland, O.Benedict & Burnham Mfg. Co., Waterbury,
Conn.Bridgeport Brass Co., Bridgeport, Conn., & 19
Murray, New York

Bristol Brass Co. (Brass Only), Bristol, Conn.

Chase Rolling Mill Co., Waterbury, Conn.

Chicago Brass Co., Kenosha, Wis.

Coe Brass Mfg. Co., Torrington, Conn.

Crucible Steel Co. of America (Copper Only),
Frick bldg, Pittsburg, Pa.Detroit Copper & Brass Rolling Mills, De-
troit, Mich.Hendricks Bros. (Copper Only), 59 Cliff, New
York**HUNGERFORD, U. T. BRASS & COP-**
per Co., 497 Pearl, New YorkHussey, C. G. & Co. (Copper Only), 2850 2d
av, Pittsburg, Pa.

Manhattan Brass Co., 338 E 28th, New York

MERCHANT & EVANS CO. (Inc.)
(Jobbers), 517 Arch, Phila., Pa. (See adv.
index & branch offices, end of book)New Haven Copper Co. (Copper Only), Sey-
mour, Conn.

ESTABLISHED 1841.

COPPERSMITHS

STEAM JACKET KETTLES
BATH BOILERS
CANDY KETTLES
WASH BOILERS
BARBERS' BOILERS
LADLES

MIXING KETTLES
METAL SPINNING
FIRE EXTINGUISHERS
WATER STILL
VACUUM PANS
STEAM COILS
DYERS' KETTLES

LIQUOR HEATERS
EXPANSION JOINTS
PIPING OF ALL DESCRIPTIONS
EXTRACTORS, TANKS
STEAMBOAT WORK
LEAD & COPPER-LINED TANKS

E. B. BADGER & SONS COMPANY

63-75 Pitts Street, Boston, Mass., U. S. A.

Plume & Atwood Mfg. Co. (Brass), Waterbury, Conn.

Randolph-Clowes Co., Waterbury, Conn.
Rome Brass & Copper Co., Rome, N. Y.
Scovill Mfg. Co. (Brass Only), Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Taunton-New Bedford Copper Co. (Yellow Metal Only), New Bedford & Taunton, Mass.

Waterbury Brass Co., Waterbury, Conn.

Copperas

Butterworth-Judson Co., Newark, N. J.
General Chemical Co., 25 Broad, New York
Harshaw, Fuller & Goodwin Co., Cleveland, O.
Penna. Salt Mfg. Co., 115 Chestnut, Phila., Pa.

Powers-Weightman-Rosengarten Co., 9th & Parrish, Phila., Pa.

Thomsen Chemical Co., Race & Winder, Baltimore, Md.

Wetherill, S. P. Co., 925 Chestnut, Phila., Pa.
Williams, C. K. & Co., Easton, Pa.

Coppers (Tillery Canning)

Hull, J. S. Mfg. Co. ("Hull"), Baltimore, Md.
SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

*Coppersmiths

(See also Boilers, Range, Copper)

BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)

GRISCOM-SPENCER CO. (All Kinds of Copper Work), 90 West, New York, & ft. Washington av, Philadelphia, Pa. (See adv. index & branch offices, end of book)

SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Copying Apparatus

(See also Duplicators; also Presses, Copying)

American Multigraph Sales Co. ("The Gam-meter Multigraph" for Printing Office Forms, Fac-Simile Letters, etc.), Case av & Kelly, Cleveland, O.

Copying Press Sheets (Rubber)

Goodrich, B. F. Co., Akron, O.

*Cord (Waterproof)

TUCKER & CARTER ROPE CO., 76 South & 167 Maiden la., New York. (See adv. index, end of book)

*Cordage (Braided)

(See also Sash Cords)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

SAMSON CORDAGE WORKS (Sash, Trolley, Arc Lamp, Bell Cord, Clothes Lines, Masons', Curtain Cords, Tiller Rope, etc.), 88 Broad, Boston, Mass. (See adv. index, end of book)

SILVER LAKE CO., 78 Chauncy, Boston, Mass. (See adv. index, end of book)

TUCKER & CARTER ROPE CO., 76 South & 167 Maiden la., New York. (See adv. index, end of book)

*Cordage (Tarred)

COLUMBIAN ROPE CO., Auburn, N. Y. (See adv. index, end of book)

TUCKER & CARTER ROPE CO., 76 South & 167 Maiden la., New York. (See adv. index, end of book)

Cordage & Twine Mfrs.

(See also Twines, Binders; also Rope Manufacturers of Various Kinds)

Allen, J. & S. (Cotton, Twines & Lines), Walpole, Mass.

American Mfg. Co., 63 Wall, New York

Anniston Cordage Co., Anniston, Ala.

Ashaway Line & Twine Mfg. Co. (Fish Lines & Cotton Seine Twines, etc.), Ashaway, R. I.

Atkins & Pearce Mfg. Co., 5th & Eggleston av, Cincinnati, O.

Bailey, Christopher & Son (Bag Rope & Twine, also Jute Twine), 320 Market, Phila., Pa.

Bailey, Jno. T. & Co., S. Water & Morris, Phila. Pa.

Beaumont Mfg. Co., Spartanburg, S. C.

Boehme & Rauch Co. (Rope, Twine & Cordage), Monroe, Mich.

Boscanan Mills (Inc.) (Cotton, Cords & Twine), Penacook, N. H.

Boston Thread & Twine Co. (Twine), 178 Devonshire, Boston, Mass.

BRODERICK & BASCOM ROPE CO. (All Kinds), 809 N Main, St. Louis, Mo. (See adv. index, end of book)

California Cotton Mills Co. (Cotton Rope & Twine), Oakland, Cal.

California Jute Mill Co. (Jute Twine), 3 California, San Francisco, Cal.

Canonchet Line & Twine Co. (Twine), Canonchet, R. I.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Central Mills Co. (Cotton Twine), Southbridge, Mass.

Charlotte Cordage Co., Charlotte, N. C.

Chelsea Fibre Mills (Flax, Jute, etc.), 33 Union sq, New York. Factory: Brooklyn, N. Y.

Cleveland Mill & Power Co. (Cotton Twine), Lawndale, N. C.

COLUMBIAN ROPE CO. (Oil Well & Tarred Cordage & Jute & American Hemp, Twine, etc.), Auburn, N. Y. (See adv. index, end of book)

Consolidated Cotton Duck Co. (Cotton Twine), Baltimore, Conn.

Continental Cordage Co., 72 Wall, New York

Dolphin Jute Mills (Jute, etc.), Paterson, N. J.

Draper, W. H. & Son (Braided & Twisted Wire, Picture Cord & Cotton Twine, etc.), Troy, N. Y.

Easton Cordage Co. (Cordage), Easton, Pa.

Elder, Jas. (Cotton Cordage), 230 W. Coulter Gtn, Philadelphia, Pa.

Empire State Bag Co. (Flax & Jute), 742 Wythe av., Brooklyn, N. Y.

Estes Mills (Inc.) (Twine), Fall River, Mass.

Estes, Jno. H. & Son (Twine), Fall River, Mass.

Fittler, Edwin H. Co., 22 N. Delaware av., Philadelphia, Pa.

Flocker, Jno. & Co. (Ltd.), 935 Liberty, Pittsburgh, Pa.

Fogg, Geo. R. (Cordage & Linen Harness Twine), 3450 Gtn. av, Philadelphia, Pa.

Gloucester Net & Twine Co. (Cotton Twine), Gloucester, Mass.

Groenake, J. C., Co., Chicago, Ill.

Hoffman-Corr Mfg. Co., 55 White, New York

Hooven & Allison Co. (Manilla, Sisal, Hemp & Jute, Baling, Wrapping, Sail, Commercial, etc.), Xenia, O.

Hoover & Gamble Co., Miamisburg, O.

Jackson, Thos. & Son (Manilla, Sisal & Jute Rope, Cordage & Twine), Reading, Pa.

Jacobs Cordage Co., Cincinnati, O.

Kelly, R. A. Co. (Sisal, Manilla & New Zealand), Xenia, O.

Kentucky River Mills (Hemp Binder & Commercial Twines), Frankfort, Ky.

Lambert Rope Corporation (Cotton), New Bedford, Mass.

Lawrence Duck Co. (Cotton Twine), Lawrence, Mass.

TUCKER & CARTER ROPE CO.

CORDAGE MANUFACTURERS

76 SOUTH STREET AND 167 MAIDEN LANE

NEW YORK CITY

Little River Mfg. Co. (Cotton Twine), Willardville, N. C.
Meagher's, Jas. Sons (Jute or Flax Cordage), 327 28th, San Francisco, Cal.
 New Bedford Cordage Co., New Bedford, Mass.
 Niagara Cordage Co., Buffalo, N. Y.
 Overman & Schraeder Cordage Co. (Jute, Hemp, Flax, Manilla & Sisal for All Purposes), Covington, Ky.
 Planet Mills Mfg. Co. (Jute Twine, Rope, etc.), 335 Carroll, Brooklyn, N. Y.
 Plymouth Cordage Co. (Cordage & Binder Twine), North Plymouth, Mass.
 Portland Cordage Co. (Flax Cordage & Binder Twine), Portland, Oregon
 Radcliffe & Shaw (Jute Twine & Rope), Glen Rock, Pa.
SAMSON CORDAGE WORKS, 88 Broad, Boston, Mass. (See adv. index, end of book)
 Schlichter Jute Cordage Co. (Jute), 20 N Front, Phila., Pa.
SILVER LAKE CO. (Braided, Cordage, etc.), 78 Chauncy, Boston, Mass. (See adv. index, end of book)
 Smith & Dove Mfg. Co. (Flax Twine), Andover, Mass.
 Standard Cordage Co. (Binder, Twine, etc.), 45 South, New York
 Tragle Cordage Co. (Wholesale Dealers), Reading, Pa.
 Travers Bros. Co. (Wholesale Dealers), 261 B'way, New York
TUCKER & CARTER ROPE CO. (Manilla, Sisal, Flax, Jute, Hemp & Cotton Ropes, Twines & Cordage), 76 South & 167 Malden la., New York. (See adv. index, end of book)
 Uhler & English, 106 N Delaware, Phila., Pa.
 Wall Rope Works, 56 South, New York
 Ware, Bruce R. & Co., 116 Bedford, Boston, Mass.
 Whitlock Cordage Co., 46 South, New York
 Yocona Cotton Mills (Inc.), Water Valley, Miss.

Cords (Arc Lamp)

(See Cords, Trolley, Arc Lamp & Bell)

Cords (Bell, Round Leather)

National Leather Mfg. Co. (Surface & Oak Tan, Flat & Round), Niles, Mich.

Cords (Flexible)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO. Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index, end of book)
 Belden Mfg. Co. ("Belden"), 194 Michigan, Chicago, Ill.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bishop Gutta Percha Co., 422 E 25th, New York
 Boston Insulated Wire & Cable Co., Boston, Mass.
 Chicago Insulated Wire & Mfg. Co., 152 Lake, Chicago, Ill.
 Driver-Harris Wire Co., Harrison, N. J.
 Ferrin, F. M. (Woven Covered), Boston, Mass.
 Goodyear Rubber Insulating Co., 1955 Park av, New York
 Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.
KERITE INSULATED WIRE & CABLE CO. ("Kerite"), 30 Church, New York. (See adv. index, end of book)
 Lowell Insulated Wire Co., Lowell, Mass.
 Marion Insulated Wire & Rubber Co., Marion, Ind.
 Moore, Alfred F., 202 N 3d, Phila., Pa.
 National India Rubber Co., Bristol, R. I.
OKONITE CO. (Ltd.), 253 B'way, New York. (See adv. index, end of book)
 Premier Electric Co., 58 W Van Buren, Chicago, Ill.
 Roebbling's John A. Sons Co., (of N. Y.), Trenton, N. J., & 117 Liberty, New York
 Runzel-Lenz Electric Mfg. Co., 97 S Clinton, Chicago, Ill.
 Safety Insulated Wire & Cable Co., Bayonne, N. J., & 114 Liberty, New York
 Simplex Electrical Co., Boston, Mass.
 Standard Underground Cable Co., Pittsburg, Pa.
 Waterbury Co., 60 South New York
 Western Electric Co. ("Victor"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wire & Telephone Co. of America, Rome, N. Y.

Cords (Incandescent Lamp)

(See Cords, Flexible)

Cords (Leather, Bell or Register)

Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago, Ill.
 Jewell Belting Co., Hartford, Conn.
 Ladew, Edw. R. (Estate), 200 William, New York
 National Rawhide & Belting Co., Niles, Mich.
 New York Leather Belting Co., 51 Beekman, New York
 Oberne, Geo. & Co., 202 Lake, Chicago, Ill.
 Page Belting Co., Concord, N. H.
 Raniville, F. Co., Grand Rapids, Mich.
 Rhoads, J. E. & Sons, 12 N 3d, Phila., Pa.
 Western Rawhide & Belting Co., Milwaukee, Wis.
 Williams, I. B. & Sons, Dover, N. H.

Cords (Picture)

Draper, W. H. & Son, Troy, N. Y.
 Wire Goods Co. (Braided Wire), Worcester, Mass. (See adv. index & branch offices end of book)
WRIGHT WIRE CO. (Braided Wire), Worcester, Mass. (See adv. index & branch offices end of book)

Cords (Telephone & Switchboard)

American Electrical Works, Phillipsdale, R. I.
 Belden Mfg. Co., 194 Michigan, Chicago, Ill.
 Driver-Harris Wire Co., Harrison, N. J.
 Kellogg Switchboard & Supply Co., W Congress & Greene, Chicago, Ill.
 McEvoy, Chas. H. ("Duro"), Lowell, Mass.
 Moore, Alfred F., 202 N 3d, Philadelphia, Pa.
 Premier Electric Co., 58 W Van Buren, Chicago, Ill.
 Runzel-Lenz Electric Mfg. Co., 97 S Clinton, Chicago, Ill.
 Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.
 Western Electric Co. ("Victor"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Cords (Tinsel & Copper)

Belden Mfg. Co., 194 Michigan, Chicago, Ill.
 Bishop Gutta Percha Co., 422 E 25th, New York
 Gregory, Wm., Paterson, N. J.
 Moore, Alfred F., 202 N 3d, Philadelphia, Pa.
 Premier Electric Co., 141 S Clinton, Chicago, Ill.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Cords (Trolley, Arc Lamp & Bell)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Fricke, J. E. Co. ("Jefferson," Solid Braided), Phila., Pa.
 Hoffman-Corr Mfg. Co., 55 White, New York
 Jacobs Cordage Co., Harriet & Budd, Cincinnati, O.
 Mallison Braided Cord Co., Athens, Ga.
SAMSON CORDAGE WORKS, 88 Broad, Boston, Mass. (See adv. index, end of book)
SILVER LAKE CO. (Braided), 78 Chauncy, Boston, Mass. (See adv. index, end of book)
TUCKER & CARTER ROPE CO. (Also Colored), 76 South & 167 Malden la., New York. (See adv. index, end of book)

*Core Binders

HILL & GRIFFITH CO. ("Glutrin"), Cincinnati, O. (See adv. index, end of book)

*Core Coating (Star Steel)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

*Core Vents (Metal)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

*Core Wash

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Corers (Fruit & Vegetable)

Goodell Co. (Fruit Parers, Slicers, etc.), Antrim, N. H.
 Hamblin & Russell Mfg. Co. (Fruit), Worcester, Mass.
 Hudson Parer Co. (Fruit), Leominster, Mass.
 Hunt Mfg. Co. (Apple), Greenfield, Mass.
 Johnson, Wm. (Hedberg Works), Newark, N. J.
 Kilbourne Mfg. Co. (Apple), Troy, N. Y.
 Landers, Frary & Clark ("Rapid"), New Britain, Conn.
 Lewis, E. J. (Pineapple), Middleport, N. J.
 Parker Wire Goods Co. (Apple), Worcester, Mass.
 Rollman Mfg. Co. (Apple), Mount Joy, Pa.
 Sinclair-Scott Co. (Fruit Parers, Slicers, etc.), Baltimore, Md.
 Stortz, John, & Son (Cabbage), 210 Vine, Phila., Pa.
 Stoutenborough, X (Apple), 277 Pearl, New York

Coers (Armature & Magnet)

BUNNELL, J. H. & CO., Park st. & Church, New York. (See adv. index, end of book)
 Chicago Screw Co., 2 N Canal, Chicago, Ill.
 Cleveland Armature Works, Cleveland, O.
 Hartford Machine Screw Co., Hartford, Conn.
 Western Electric Co., Chicago, Ill.

Cork Carpets

American Linoleum Mfg. Co., 78 Worth, New York
 Fan & Bailey Mfg. Co., Camden, N. J.
 Nairn Linoleum Co., Kearny, N. J.
 Potter, Thos., Sons & Co., 522 Arch, Phila., Pa.

Cork Chips

Armstrong Cork Co., Pittsburg, Pa.
 Waever & Lea Co., 118 Hudson, New York

Cork Covering Mfrs.

(See Pipe & Boiler Coverings, Cork)

Cork (Granulated, for Insulation)

(See Insulation, Cork)

Cork Mfrs.

Armstrong Cork Co., Pittsburg, Pa.
 Butz, A. L. Cork Co., 837 Race, Phila., Pa.
 Cahn, Hugo & Co., 67 Murray, New York
 Crown Cork & Seal Co., 1511 Gullford av, Baltimore, Md.
 Farrell, Wm. J., 115 Malden la, New York
 Goodwin Cork Corporation, Norwich, Conn.
 Newark Cork Works, Newark, N. J.
 Paddock Cork Co., 1209 De Kalb av, Brooklyn, N. Y.
 Redlich Mfg. Co., 2 Oak, Chicago, Ill.
 Williamsburg Cork Works, 57 Murray, New York

Cork Screws

Arcade Mfg. Co., Freeport, Ill.
 Browne & Dodd Mfg. Co., Meriden, Conn.
 Dame, Stoddard & Co., Boston, Mass.
 Deuse, J. S., Chester, Conn.
 Dodge, Jas. B. ("New Era" Cork Extractors), Jacksonville, Fla.
 Erie Specialty Co. ("Walkers"), Erie, Pa.
 Havell Mfg. Co., Newark, N. J.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Lee, F. E. Hardware Mfg. Co., Hartford, Conn.
 Parker, Chas. Co., Meriden, Conn.
 Rockwell-Clough Co. (Wire), Alton, N. H.
 Ross, Jos., Jr., & Co., Newark, N. J.
 Smith & Heminway Co., 108 Duane, New York
 Taylor Mfg. Co., Hartford, Conn.
 Wallace Sons Mfg. Co., Wallingford, Conn.
 Williamson, C. T. Wire Novelty Co. (Self-Acting Combination, also Small Wire Cork-Screws), Newark, N. J.

Cork Waste

(See Cork Chips)

Corn Binders & Harvesters

Adriance, Platt & Co. ("Adriance"), Poughkeepsie, N. Y.
 International Harvester Co. of America ("Champion," "Deering," "McCormack," "Milwaukee," "Piano," "Osborne"), 7 Monroe, Chicago, Ill.; Osborne Plant, Auburn, N. Y.

Johnson Harvester Co. ("Johnson"), Batavia, N. Y.
Wood, Walter A., Mowing & Reaping Machine Co. ("New Century"), Hoosick Falls, N. Y.

Corn Cookers & Fillers

Ams, Max, Machine Co., Mount Vernon, N. Y.
Cottingham, Harrison, Baltimore, Md.
Morrall Bros., Morrall, O.

SPRAGUE CANNING MACHINERY CO.,
5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Corn Husking Goods.

Blair Husking Glove Co., Bucyrus, O.
Boss Mfg. Co. (Gloves, Mittens, etc.), Ke-
wanee, Ill.

Corn Planters

(See Planters, Corn)

Corn Shellers

(See Shellers, Corn)

Corner Bands for Cars

Davis Solid Truss Brake Beam Co. (Pressed
Steel), Wilmington, Del.

Corner, Base & Head Block Mfrs.

American Carving & Mfg. Co., Grand Rapids, Mich.
Crampton & Belden Mfg. Co. (Wholesale Mfrs.),
Green Island, N. Y.
Curtis Bros. & Co. (Wholesale Mfrs.), Clinton,
Iowa
Curtis & Bartlett Co. (Wholesale Mfrs.), Lin-
coln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau,
Wis.
Disbrow, M. A. & Co. (Wholesale Mfrs.), Ly-
ons, Iowa
Foster-Munger Co. (For the Trade Only), W
20th & Sangamon, Chicago, Ill.
Fuller & Rice Lumber & Mfg. Co. (For the
Trade Only), Grand Rapids, Mich.
Gauger, Jno. A. & Co. (For the Trade Only),
W 22d & Laflin, Chicago, Ill.
Gelhardt, J. F., 255 Calver, Brooklyn, N. Y.
Gould Mfg. Co. (For the Trade Only), Osh-
kosh, Wis.
Harris & Cole Bros. (For the Trade Only), Ce-
dar Falls, Iowa, & Columbus, Tenn.
Lawrence, Newhall, Page & Co., Augusta, Me.
McMillen, R. Co. (For the Trade Only), Osh-
kosh, Wis.
Morgan Co. (For the Trade Only), Oshkosh,
Wis., & W 22d & S Union, Chicago, Ill.
New York Carved Moulding Co., Rider av &
139th, New York
Palne Lumber Co. (For the Trade Only), Osh-
kosh, Wis., & 1 Madison av, New York
Pierce, W. E. & Co., Milford, N. H.
Radford Sash & Door Co. (For the Trade Only),
192 W 22d, Chicago, Ill.
Roberts, E. L. & Co. (For the Trade Only), W
22d & Union pl, Chicago, Ill.
Rock Island Sash & Door Works (Wholesale
Mfrs.), Rock Island, Ill.
STEARNS, A. T. LUMBER CO., Ne-
ponset, Boston, Mass. (See adv. index, end
of book)
Stearns, J. S., Bennett, Mich.
Waddell Mfg. Co., Grand Rapids, Mich.
Zimmerman, Chas. E., 204 Buruet av, Syracuse,
N. Y.

Corner Beads (Plastering)

(See Plasterers' Steel Corner Beads)

Corners (Box)

(See also Box Straps)

Brainerd Mfg. Co. (Also Chest), Despatch,
N. Y.
Brass Goods Mfg. Co. (Also Chest), Nevin cor
Union, Brooklyn, N. Y.
CARY MFG. CO., 19 Roosevelt, New
York. (See adv. index, end of book)
De Haven Mfg. Co., 153 Furman, Brooklyn,
N. Y.
Jenkinson, R. C. & Co., Newark, N. J.

Corners (Casket)

Waddell Mfg. Co., Grand Rapids, Mich.

Corners (Partition)

Western Brass Mfg. Works (Iron or Brass)
21st & Rockwell, Chicago, Ill

Corners (Screen Frame)

Stearns, E. C. & Co., Syracuse, N. Y.

Cornice Brakes

Double Truss Cornice Brake Co., Buffalo, N. Y.
Dreis & Krump Mfg. Co. ("O. K."), 3216 S
Halstead, Chicago, Ill
Falstrom & Tornquist Co., Passaic, N. J.
Ohi, Geo. A. & Co. (Automatic Power, etc.),
157 Oraton, Newark, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Robinson, J. M. Mfg. Co. (Improved Double-
Eccentric), Cincinnati, O.

Cornice Copper Mfrs.

(See Copper & Brass Sheet)

Cornice Makers' Machinery

(See Machinery, Cornice Makers')

Cornices (Galvanized Iron, Etc.)

ALABAMA.

ANNISTON—Interstate Roofing Co.
BIRMINGHAM—East Birmingham Iron Roof-
ing & Corrugating Co.
Wheelock, George F. Co., 107 S 21st
DECATUR—Brown, W. A. & Co.
MOBILE—Partridge, C. S., Hardware Co.
NEW DECATUR—Decatur Cornice & Roofing
OPELIKA—Galbraith, W. A. Co.
TALLADEGA—Michael, J. E. Supply Co.

ARIZONA TERRITORY.

PHOENIX—Burtis, D. H.
TUCSON—Gardner, Worthen & Goss Co.
Julian, W. A. Co.

ARKANSAS.

FORT SMITH—Bruce Bros.
HELENA—Helena Job Works
Helena Tin & Plumbing Co.
HOT SPRINGS—Hot Springs Plumbing & Ma-
chine Co.
William Schweder Co.
LITTLE ROCK—Fones Bros. Hardware Co.
Foster Hardware Co., 301 Main 200 Main
McCardell Bros., 522 Center
Robinson, J. K. & Co., 108 E 4th
MARIANNA—Plummer & Davis
PINE BLUFF—Dellmon, Jno. H., Jr.
Fox Bros. Hardware Co., 202 Main

CALIFORNIA.

FRESNO—Barrett-Hicks Co.
Kutner-Goldstein Co.
LOS ANGELES—American Cornice W'ks, 1710
S Main
California Cornice Works, 723 N Main
Collins & Elliott, 803 E 2d
Erhardt, C. A., 230 E 4th
Gibbs, Wm. H., 2948 W Pico
Keays, A. A., 237 E 4th
Lederle, E. E., 1835 S Main
Metzger, Theo., 1044 Byram
Panzer-Hamilton Co., 131-139 Rose
Schaefer, Wm., 716 San Pedro
Zinn, E. L.
OAKLAND—Heldt, W. Cornice Works, 916
Webster

PASADENA—Dunn, W. H., 26 W Union

POMONA—Caldwell, B. F.

POPLAR—Howell, J. L.

RIVERSIDE—Copley Bros.

Shiels, John, & Sons

SACRAMENTO—Earle, Edw. E.

Scott, Lyman & Stack Co. (Inc.)

Sinclair & Bessey

SALINAS—Anderson & Dougherty

SAN DIEGO—Johnstone, J. S., & Son

Hellbron, Fred A.

San Diego Sheet Metal Works

Toms & Blair Sheet Metal Co.

SAN FRANCISCO—Comyns & Nygren, 1731
15th

Conlin & Roberts, 414 Natoma

Cronan, Wm., 19 City Hall av

Cronan's Eagle Cornice Works, 30 8th

Feldman & Sommer
Forderer Cornice Works, 269 Potrero av
Guilfooy Cornice Works, 209 8th
Olmo, Frank, 3464 Mission
San Francisco Cornice Co., Bryant & Dore
SAN JOSE—Mangrum & Otter Co.
SANTA ANA—Hills, S. & Son
McFadden, John E.
Niekey, F. P. Hardware Co.
SANTA BARBARA—Boeske-Dawe Co.
Booth, R. L.
Ott Hardware Co.
SANTA CRUZ—Byrne Bros.
SANTA MARIA—Bryant & Trott Co.
SANTA ROSA—Demmer Chas.
Potter, J. H., & Son
STOCKTON—Jackson & Earle

COLORADO.

ALAMOS—Sprlesterbach Hardware Co.
COLORADO SPRINGS—Bumstead, F. E.
Lowell-Meservey Co., 106 S Tejon
DENVER—Blustin & Crenner, 1431 Lawrence
Crosta, C. A. Bros., 1830 Market
Denver Cornice Co., 1850 Lawrence
Denver Sheet Metal Works, 1242 11th
Fair, Chas. W. Cornice Work Co., 1809
Blake

Globe Cornice & Heating Co., 756 B'way

Kessler, Fred, 2708 Larimer

O'Brien, D. L., 3827 Downing av

Stephenson, W. E., 2807 Welton

Wahlgren Sheet Metal & Heating Co.

Walter, Louis H., 1426 Blake

DURANGO—Chapman, W. C.

Nagelin, Charles

FLORENCE—Spencer, T. E.

Wilson, George Hardware & Supply Co.

GLENWOOD SPRINGS—Metelnau, H. C.

OURAY—Arps Bros. Hardware Co.

PUEBLO—Klelu, Henry

TRINIDAD—Branson & Griswold Hardware Co.

Brown, H. B. Hardware Co.

CONNECTICUT.

BRIDGEPORT—Bridgeport Cornice Works, 227
John

DROUVE, G., CO. (Sheet Metal,
Copper, Galv. Iron, etc.), 40 Tulp. (See
adv. index, end of book)

Hurley, Jas. J., 606 E Main

Kirk, W. P. Co., 360 Fairfield av

Mills, L. H., 32 Middle

Reilly, J., Jr., 283 State

Schwing, Jno. Corporation, 863 Wood av

HARTFORD—Reseman & Bostwick, 44 Ann

Cullen & Atkinson Co., 120 Allyn

Lurie, Aaron, 172 Allyn

Stelling, Fred., 9 Pawtucket

MERIDEN—Griswold, Ricuoud & Glock Co.,
2 W Main

MIDDLETOWN—Bacon Bros., 287 Main

Flynn, J. Taylor, 160 Court

NEW HAVEN—Bradley Co., 158 Orange

Buckingham, Routh Co., 151 Court

Clerkin & Co., 781 Grand av

Corbett, T. W., 29 B'way

Curtiss & Pierpont Co., 272 Elm

Day & Co., 103 Dwight

Dorman & Cugell, 243 Congress av

Perry, Harry M., 218 George

Rourke Bros. Co., 834 Grand av

Sheahan & Groark, 285 State

Sheehan, Dan, M. 108 Court

NORWICH—Gibson, S. F., 55 W. Main

PUTNAM—Chandler & Morse

Field, N. W. & Co.

Kenyon, R. L.

Perry & Brown

SOUTH MANCHESTER—Carrier, E. T.

Ferris Bros.

STAMFORD—Brown, J. M., 50 Bedford

WATERBURY—Barlow Bros. Co., 65 Grand

Disley, Wm. T. Co., 276 Bank

Gill, John M., 256 N Main

Weyand, Henry Co. (Inc.), 22 Jefferson

WATERTOWN—Sniffa, Jos.

WOODBURY—Hitchcock, F. F.

DELAWARE.

NEW CASTLE—Kegan & Hufnal

WILMINGTON—Riddle, Sam, 102 W 8th

Cooke, H. R., 715 Shipley

Johnson, W. J., 909 Walnut

Wilmington Cornice Works, 501 E 11th

DISTRICT OF COLUMBIA.

WASHINGTON—Beck, J. F., 425 K. N W

Branzell, Wm. H., 1905 14th, N W

Daly & Hopper, 916 27th, N W

Glebas, H. J., 113 4½, S W

Glebas, Louis, 1026 6th, N W

Hulse, Edgar J., 321 13th, N W
 Mathy Co., 1918 Pa. av, N W
 Reavis, Albert S., 719 2d, N E
 Whyte, W. M., 304 13th, N W
 Wolfsteiner, O. L. Co., 1315 W, N W

FLORIDA.

JACKSONVILLE—Macy & Johnson
 Macy & Johnson
 KEY WEST—Johnson, W. A., & Bros.
 Page, A. J.
 PENSACOLA—Avery Hardware & Supply Co.
 Vetter, C. B.
 SANFORD—Fernald, Geo. H. Hardware Co.
 Hill, A. E.
 TAMPA—Berry, W. J. & Co.

GEORGIA.

ABBEVILLE—Moody, E. A.
 AMERICUS—Schroeder, W. H. R.
 ATLANTA—Dowman-Dozier Mfg. Co., 22 Trinity av
 Franklin Pig & Tinning Co., 121 Whitehall
 Hunnicutt, J. E. & Co., 56 Peachtree
 AUGUSTA—Jessup, E. S.
 Slusky, David
 BRUNSWICK—Baker, M. A.
 Daniels, Moses
 CARTERSVILLE—Lumpkin Hardware Co.
 COLUMBUS—Gartman, W. D.
 Russell, J. C. & Co.
 Sheridan, Geo. W.
 MACON—Ricks, L. C.
 Suber Co.
 ROME—Neal, James
 SAVANNAH—Cox, C. A., 142 Barnard
 Hahne, Frank, 212 Drayton
 Hobbs Bros. & Co.
 Karsmann, Frank
 Pacetti's, E. C., Sons
 Savannah Blow Pipe & Exhaust Co.

IDAHO.

BLACKFOOT—Curtis, H. W.
 BOISE—Idaho Hardware & Plumbing Co. (Ltd.)

ILLINOIS.

ALTON—Degenhardt, A. J.
 AURORA—Crampton, J. T.
 Hart, Charles
 Kendall, Jno. W. & Son
 Messenger & Parks Co.
 Plaln & Grandquist
 Welter, N. P.
 BATAVIA—Barkley, John & Son
 U. S. Wind Eng. & Pump Co.
 BELLEVILLE—Geel, J. A.
 Lebkencher, L.
 BIRWYN—Becker, Frank
 BLOOMINGTON—Butler, Harry
 Muhl, F. C.
 Read, G. H. & Bro.
 BLUE ISLAND—Clausen, Henry G.
 Schreiber Bros.
 BOWEN—Walty, Albert
 CAIRO—Morris, J. W.
 CHANPAIGN—Mollett, Chas.
 CHICAGO—Aarup, H. C., 7009 S Elizabeth
 Abt, L., 374 W Taylor
 Andersen, L., 465 Grand av
 Armbruster, Louis, 767 Lincoln av
 Atlas Cornice Works, 1034 W 22d
 Block, Rudolph F., 774 Lincoln av
 Bloomer, M. & Co., 3251 Cottage Grove av
 Bohnett, W. R., 4406 Cottage Grove av
 Bredfield, Chas. A., 575 Washburne av
 Bremer, Henry F., 1136 W 13th
 Burkhardt, G. Mfg. Co., 940 N Clark
 Conen, Stephen, 1876 Lincoln av
 Elke, Otto, 1150 W 63d
 Erickson, Gus A., 1340 N Western av
 Erickson, John T., 4430 La Salle
 Evick, Henry, 3535 5th av
 Farwell Cornice Co., 1304 Southport av
 Fivek, Frank, 1274 S Trumbull av
 Forsman, John A., 441 W 53th
 FRIEDLEY-VOSHARDT CO., 194
 Mather. (See adv. index, end of book)
 Gleichshelmer, Fred., 1760 N Central Park
 Glatt, Jacob, 517 Dickens av
 Glowacki, Jno. B., 4528 S Ashland av
 Graebke, Fred C., 673 Sheffield av
 Griffith Cornice Works, 2441 Indiana av
 Guenther, Richard, 264 Avondale av
 Hamer, Fred, 75 North av
 Heckler, Herman, 351 E 63d
 Hempel, Max, 282 92d
 Hendie, Nicholas, 450 Roscoe
 Herr, Wm., 610 W 15th
 Hirsch, K., 436 W Division
 Holzwarth, A., 1339 Wellington

Illinois Roofing & Cornice Co., 329 W Kin-
 Jaeger, Fred'k J. C., 571 W 17th
 Jennings, M. L. & Co., 57 W Jackson boul
 Jensen, C. E., 1218 W North av
 KNISELY, H. C. CO., 273 S. Canal.
 (See adv. index, end of book)

Knisley Bros., 28th pl & 5th av
 Krautwurm, Wm., 200 Canalport av
 Krefting, Edw., 119 W Van Buren
 Kuder, Chas. V. Co., 5315 Wentworth av
 Lang, Wm., 300 Warsaw av
 Lavery, Jno. V., 4315 State
 Lengacher, Wm., 256 Larabee
 Liddle, Robt., 2608 State
 McFARLAND, J. C. & CO., 5th av
 & 27th. (See adv. index, end of book)
 McIlroy Cornice Works, 1519 State
 Maeder, Chas., 463 S 42d
 Maehler, Paul C., 203 W Lake
 Masterton, Albert E., 9140 Houston av
 Meisel, Ferdinand, 589 N Halsted
 Miller, Jas. A. & Bro., 129 S Clinton
 Monroe, John F., 453 Humboldt av
 Monroe, Wm. E., 2356 Eberly av
 Moorhead, Thos. D., 6637 Vernon av
 Noyes, E. A., 584 W Lake
 Perkinson & Brown (Skylight), 113 N Lincoln
 Peter, John, 632 N Wood
 Petersen, Thos., 705 W Chicago av
 Purdy & Cauble, 800 W 63d
 Rehling, K. J., 4525 State
 Reuter, Edw'd, 959 W 13th
 Rickert, Harry J., 838 W 12th
 Rosenberger, Edw'd, 935 Lemoyne
 Rychtik, Frank, 673 W 21st
 Rychtik, Joseph, 582 Throop
 Rysdon, E. A., & Co., 629 W 41st
 Schaeffer Co., 1020 S Central Park av
 Schneider & Meng, 320 Clybourn av
 Schwedland Cornice Co., 2803 S Halsted
 Slavik, Frank, 1356 W Van Buren
 Slavik & Co., 425 Blue Island av
 Smrcka, W. J., 2911 Butler
 Spaltenstein Bros., 120 Newberry av
 Spiess, Edw., 954 N Clark
 Staar, Frank, 218 Belmont
 Trede, Edw. J., 1447 W Division
 Universal Cornice & Roofing Co., 970 S
 Vallas, Wm. H., 1325 W Lake
 Voigtman, Frank Cornice Co. (Skylights).
 91 Indiana

Wagner Bros., 1350 Diversey boul
 Wales, Joseph, 518 Blue Island av
 Warner, Chas. W., 93 W Harrison
 Watson, W. D., Co., 302 W Van Buren
 Williams, Owen R., 2441 Indiana av
 (See adv. index, end of book)

Yeldham, Harmon J., 269 W Van Buren
 Zakrzewsky, Herman, 378 W. Belmont av
 DANVILLE—Balsley & Dettman
 King Bros.

DAVIS—Caldwell, J. M.
 DECATUR—Barringer, Wm. & Bro.
 DE KALB—Sheets & Knodie Co.
 Smith, C. F.
 DIXON—Hoffman, John
 EAST ST. LOUIS—East St. Louis Hardware Co.
 Haines, O. J. & Son
 Jordan, F. B.

EDINBURG—Ballet, Jacob
 EDWARDSVILLE—Bernreuther, Fred
 EFFINGHAM—Feldhake, J. J.
 ELGIN—Hawkins Bros.
 GALESBURG—Block & Hillman
 Galesburg Cornice Works
 Rearick, F. H. & Son
 HIGHLAND PARK—Purdy, D. C. & Sons
 HOOPESTON—Werner, E. B.
 JACKSONVILLE—Brennan, J. F.
 JOLIET—Bush & Handwerk
 Meers, Robert

KANKAKEE—Reuter, Henry
 LA GRANGE—Mattingly, J. G.
 LA SALLE—Boyle, T. & Bro.
 Camenisch, John
 LEBANON—Sager, C. H. Hardware Co.
 LINCOLN—Bouillon, W. E.
 Dehner, J. P.

MATTOON—Berthold, Edward
 Weber, O. B.
 MENDOTA—Edwards Hdw. Co.
 MOLINE—Reid Co., The
 Sammel, Wm. B., 1322 4th av
 Willis & Sons Co.
 MONTICELLO—Harris, H. P.
 MORRIS—Cronin, D. G.
 MURPHYSBORO—Stoeizle, John & Bro.
 OLNEY—Jolly, Wleland & Richardson
 ONARGA—Amerman, M. T.
 OTTAWA—Paisley, Wm. C.
 Pearson's, Sam'l & Sons
 Walter, Jno. (State & Metal)
 PANA—Paul, G. A.
 PEORIA—Aylward, R. C., 916 N Adams
 Bushell, A. A. & Son, 1319 S Washington

Hierspiel Bros.
 Hunter & Strehlow, 114 S Adams
 Johnson, Chas. Hdw. Co., 2023 S Adams
 Kavanaugh, Pat'k H., 227 S Madison av
 Kellersstrass, Robt.
 Meyer, F. & Bro. Co., 1313 S Adams
 Peoria Roofing Co., 211 Maple
 Tallman, Jno. S., 3105 N. Adams
 Wilson, R. L. & Co., 3017 S. Adams

PLANO—Sears, A. H. & Co.

Stahle, Henry
 QUINCY—Berghofer-Mitchell Co.
 Comstock-Castle Stove Co.
 Frederick, Edw.
 Winking, Geo.
 Wurst, C. H. Co.
 Ziener Bros.

ROCKFORD—Drake-Tucker Hdw. Co.
 Martin, A. & Co.
 McGulre Bros.

ROCK ISLAND—Allen, Meyers & Co.
 Bertelson, John, 523 22d
 Rock Island Cornice Works
 Siemon, H. T.

SPRINGFIELD—Armstrong Bros.
 Atkinson, E.
 Foster, Wm. & Sons Co.
 Henson, Robinson Co.
 Lauterbach, Peter
 Neuman, J. C.

STERLING—Taylor, F. R. & Co.

Trager, F. A.

STREATOR—Alband, John.

Howe, L. D.
 McCoy, Otis H.
 Powers & Williams
 SYCAMORE—Ohlmacher, C. J.
 URBANA—Green, Jesse D.
 WAUKEGAN—Melody, W. A.
 Watrous, G. B. & Son

INDIANA.

COLUMBUS—Brooks Bros.
 CONNERSVILLE—Cain, Hy.
 ELKHART—Borneman & Sons
 Garvin & Co.
 ELWOOD—Elwood Iron Works
 EVANSVILLE—Attinger, Wm. F.
 Groeninger, J. J. & Co., 400 L. 2d
 Lohse, H. Co., 7 2d av
 Mesker, Geo. L. & Co., 100 L 1st
 Schumke, H. & Co.
 Wiechel, Louis & Co.

FORT WAYNE—Gerding & Aumann, 115
 Gunkel, Otto F., 38 Swinney av
 Miller, U. U.

GREENFIELD—Banks, A. J. & Son
 HUNTINGTON—Bridge, Lewis & Sons
 Hewitt, E. G.

INDIANAPOLIS—Abel & Dowie, 229 Indiana

Ensey, Orvis B., 1308 N Senate av
 Gardner, Joseph, 37 Kentucky av
 Hornbrook-Price Co., 24 W Henry
 Humphreys & Sargent, 124 E. Court
 Indianapolis Corrugating Co.

Ott, Christian & Co., 5 N New Jersey

LAFAYETTE—Co-Operative Tin Shop

Howe & Shipley

Schmelpfenig, C.

LAPORTE—Decker Bros.

LAWRENCEBURG—Stuber, F. & Son

LEBANON—Bratton, J. B.

LOGANSPOUT—Cline Bros.

Eberlein, C. Augustus, 518 B'way

Flaneglin Hardware Co.

Truh, H. J.

MADISON—Eckert, John, Sons

Hoffman, Peter

Quinn, Patrick J.

MARION—Beshore, Chas.

Hollinger, M. G. & Co.

Swanger & McClain

MICHIGAN CITY—Bartholomew & Co.

Stalger Hdw. Co.

MISHAWAKA—Distler, John C.

Lang, O. E. & Co.

Swanger, John, Jr.

MONROEVILLE—Nill & Jerome

MONTEZUMA—Sharp, I. A.

MOUNT VERNON—Schenck, E. B. Hdw. Co.

MUNCIE—Ballard, W. H.

Cook & Miller

Doyle, Thos. F.

Wells, A. T.

NEW CASTLE—Shriner, James C.

NORTH MANCHESTER—Lockwood, J. B.

PERU—Brennan, J. W.

RICHMOND—Johanning, C. H.

Ruch, John

Schultz & Laning

RUSHVILLE—Beale, John S.

SHELBYVILLE—Brown & Boehming

Howard, L.

Pearson, J. C. & S.

SOUTH BEND—Duncker, Henry
Lauber, J. C. & Co.
Meyer, G. E. & Son
TERRE HAUTE—Freitag, Weinhardt & Co.
Moore, J. T., 725 Wabash av
Smith, O. C. Sons Co., 303 Wabash av
Terre Haute Furnace & Sheet Metal Co.
VALPARAISO—Findling, H. M.
Patrick, J. H. & Son
Wiley, W. H.
VINCENNES—Dubois Bros.
Lauby, C. W.
Vincennes Galvanized Works
WARSAW—Herrin, Jerry
WASHINGTON—Carnahan, M. J. Co.
Gross, Ferd H.

IOWA.

ALBIA—Barger, C. S.
ALGONA—Robinson, J. W.
AUDUBON—Hoover, G. W.
Reinemund, Jno., Jr.
BOONE—Noland, L. C.
BURLINGTON—Forney, J. H.
Haffner, Chas.
Hillen, C. F.
CEDAR RAPIDS—Cedar Rapids Cornice Works
Grissel, J. P.
Wagner, C. De Witt
CHARITON—Ensley, G. W.
CLINTON—Armstrong, C. E. & Co.
COUNCIL BLUFFS—Amy, W. S.
Spencer, F. A.
Swaine, Chas.
CRESTON—Creston Cornice Works
DAVENPORT—Reimers, Peter A.
DES MOINES—Backman, J. A., 524 E Grand
Steel Roofing & Stamping Works, 506 Jefferson, S. D. M.
Klauser Mfg. Co.
Klauser & Kress
Lally, Jas.

ELDORA—Stauffer, Chas. F.
GRINNELL—Miles, G. L.
HARTLEY—Messer, E. B. & Son
HUMBOLDT—Ward, C. E.
INDEPENDENCE—Plane, I. C.
IOWA CITY—Maresh Bros.
KEOKUK—Gelger, Aug.
Seither & Cherry Co.
LYONS—Parker Bros.
MUSCATINE—McQuisten & Sawyer Co.
Thompson Bros. Co.
NEW HAMPTON—Garmen & Forkenbock
OSKALOOSA—Hamilton & Hamilton
Wells, Porter & Stump
OTTUMWA—Harper & McIntire Co.
Haw & Simmons Co.
McCarroll Bros.
McCarroll, Charles T.
SIOUX CITY—Eidt, Julius
Hamlett, Son & Co.
Larson, C. A.
STATE CENTER—Schilling Bros.
McMahon, J. L.
STORM LAKE—Peterson, N. H. & Son
VINTON—Vinton Plumbing Co.
WOODBINE—Western Steel & Iron Co.
Young & Sweet

KANSAS.

ATCHISON—Klostermeir Bros.
Walcott, H. C.
Weinmann, C. F.
CONCORDIA—Blair & Everly
EMPORIA—Knapp, O. H.
IOLA—Root, W. H.
JUNCTION CITY—Barker, E. E.
Muenzenmayer, J. J. & W. F.
LEAVENWORTH—Endres, J. A. & Son
Hoffman, S. C.
Zelts, G. F.
NEWTON—Bachman, C. A.
Bergh, Wm.
OTTAWA—Elder Mercantile Co.
PARSONS—Fitzsimmons, J. A.
Steele Hardware Co.
PITTSBURG—Baglay, J. P.
Beasley & Miller
SALINA—Kastner, Chas. & Co.
Kastner, Geo.
TOPEKA—Raiford, John M., 216 W 6th av
Forbes, D. H., 616 Kansas av
Nussbeck, John G., 306 Kansas av
Van Dorp, L., 828 Kansas av
Wolf Bros., 114 E. 6th av

KENTUCKY.

ASHLAND—Coburn, S.
Phelps, Frank K.
CARROLLTON—Salyers, C. D. & Son

CATLETTSBURG—Ely, Chas. W.
COVINGTON—Glaser, Wm. A., 1902 Madison
Gottschalk, F. S. Sons, 72 Pike
Hesselman, Herman C.
Moeschl-Edwards Corrugating Co.
Rasch, C. F. Sons, 1113 Madison av
DAYTON—Poos, John
FRANKFORT—Miller, Geo. W.
LEXINGTON—Bitterman, E. & Son, 80 W
Main
LOUISVILLE—Belknap Hardware & Mfg. Co.
Fink, Philip & Sons, 315 1st
Imperial Wire, Iron & Roofing Co., 221 W.
Kentucky Sash & Door Co., 6th Hill & A
226
Louisville Cornice, Roofing & Heating Co.
Schreick, J. & Co., 1406 Preston
Shaber, W. F. Co., 741 E Jeff
Todd, Donigan Iron Co., 817 W Main
Wulff, W. C. & Co., 601 E. Jefferson
MAYSVILLE—Leonard & Lally
McClanahan & Shea
Rasp, R. & W.
NEWPORT—Rust, Lawrence & Son, 909 Mon-
mouth
Wagenlauder, Fred & Co.
OWENSBORO—Guenther, W. A. & Sons
Southern Foundry Co.
PADUCAH—Davis, G. R. & Bro.
Maret, J. C.

LOUISIANA.

NEW IBERIA—Ribbeck Mfg. Co.
NEW ORLEANS—American Sheet Metal Works
Gulf Galvanizing & Metal Works, 1229
Nelson, A. J. Mfg. Co. Carondelet
New Orleans Roofing & Metal Works (A. S.
White), 928 Lafayette
Redmond, B. V., 340 Chartres
SHREVEPORT—Adams & Son
Bain, H. H.
Wortman, E.

MAINE.

AUGUSTA—Malcolm & Dyer, 159 Water
Taber & Reid, 269 Water
Ward, A. D., 195 Water
BANGOR—Clement Carter & Co.
Leighton Plumbing & Heating Co.
BATH—Barton, Geo. H., 211 Front
Rogers, C. W.
Watson, W. H.
Winslow, J. A. & Son
BELFAST—Stickney, John B.
Wright, C. L.
BIDDEFORD—Antholne, Geo. A.
Lowell, John R.
BRUNSWICK—Ridley, Geo. B.
EASTPORT—Martin, E. S. & Sons
Spates, Wm. T.
ELLISWORTH—Aiken, F. B.
LEWISTON—Korneffel, F. & Son
Stetson, Jos. H. Co.
MACHIAS—Crane Bros.
MECHANIC FALLS—Hawkes & Whitney
NEWPORT—Deering, R. A. & Son
NORWAY—Crocker, J. O.
Leavitt, W. C. Co.
OLD ORCHARD—Robinson, Wm.
PORTLAND—Alexander, A. R., 22 Monument
Hollivan & Parker, 54 Cross
Hutchinson & Cain, 22 Commercial
McBrady, Jno. E. & Son, 229 Federal
Nash, F. & C. B. Co., 386 Fore
Nash, O. M. & D. W., 6 Exchange
Scott, Wm. H. Co., 33 Union
Wheeler, F. E., 645 Forest av.
ROCKLAND—Sleeper Bros.
SANFORD—Huff, Geo. W.
SKOWHEGAN—Steward Hardware & Plumb-
ing Co.
Wood, F. A.
WALDSBORO—Curtis, C. H.
Richards Bros.

MARYLAND

BALTIMORE—Bartlett, Hayward & Co., Con-
tinental bldg
Betzel, Wm. F., 427 N High
Clifton Cornice & Skylight Works, 429 N
Cotton, Wm. E., 1600 Harford av High
Fingles, W. A., 1533 Maryland av
Hetzell, John G. & Son, 225 N Howard
Hicks, Chas. A., 911 3d av
Kohlhepp, Anthony, 404 N. Howard
Lenderking, P. H., Jr., 2519 Fairmount av
Northwestern Cornice Works, 1500 Pa. av
Parsons, N. E. & Son, 910 3rd ave
**PRUDEN, C. D. CO., Warner, Bay-
ard & Dock.** (See adv. index, end of
Valle & Young, 216 N Calvert Dock
Vollenweider, J., 1506 Penna. av
Wells & Newton Co., 502 E. Fayette

Wilhelm, J. Frank, 748 Penna. av
Zimmers, A. M., 1808 Frederick av
EASTON—Hartnett, W. J.
Shannahan & Wrighton Hardware Co.
FREDERICK—Fox, L. M., 625 n Market
HAVRE DE GRACE—Murphy, J. T.
HAGERSTOWN—Danzer Metal Works
ROCKVILLE—Vielt, Henry
REISTERSTOWN—Brown, J. V.
SALISBURY—Dorman & Smyth Hdw Co.
Gunby, L. W. Co.
Salisbury Hardware Co.

MASSACHUSETTS.

ASHLAND—Enslin, Franklin & Co.
ATTLEBORO—Flynn, Wm., 17 Bailey
BOSTON—Anderson, C. & Co., 41 Way
BADGER, E. B. & SONS CO. (also
Copper), 75 Pitts. (See adv. index, end
of book)
Boston Cornice & Skylight Co., 43 Bristol
Buchanan, Geo. J., 85 Commercial Wharf
Fegney, John, 15 N Grove
Finkelstein, M., 32 N Russell
Forrest Alfred W., 464 Harrison av
Harrigan, J. & Son, 111 Liverpool
Hicks, S. D. & Son, 17 Bowker
Jeffers, Wm., 77 Joy
Kalman, Joseph & Son, 152 Chelsea, E B
Maguire, W. J., 46 Cornhill
Marley Bros. Co., 131 State
Mayberger, Edw. F., 1 Willow Park
Pempel, Fr., 1462 Columbus av
Pempel, Geo. C., 27 Eustis
Raymond, J. B. Co., 48 India
Union Cornice Co., 7½ Appleton
Van Noorden E. Co., 944 Massachusetts av
Young, D. A. Co., 229 Milk
BROCKTON—Carr, J. E. & Sons
CAMBRIDGE—Brock Bros.
Douglass, Geo., 266 Prospect
Eagle Cornice & Skylight Works, Decatur
c Brooline
CAMBRIDGEPORT—(See Cambridge)
CHICOPEE FALLS—Enright, P. J.
CLINTON—Maitland, Robert & Son
O'Toole Bros.
FAIRHAVEN—Delano, C. F.
Forrest, E. W.
FALL RIVER—Fall River Sheet Metal & Cor-
Hughes, James T., 140 3d. nice Works
FITCHBURG—Jennison Co.
GARDNER—Curtis, H. O.
HOLYOKE—Friedrich, E. H., 73 Sargeant
HUDSON—Glines, Mrs. G. Fred.
HYDE PARK—Johnson, A. J.
LAWRENCE—Forbes, Wm. & Sons, 450 Essex
LEOMINSTER—Burrage, H. E. Co.
LOWELL—Costello, Thomas & Co., 212 Cen-
Cushing, D. & Co., 398 Middlesex
Hanchett & Co., 320 Middlesex
Lowell Furnace Co.
Mack, W. A. & Co., 25 Shattuck
Stewart, J. W., 359 Bridge
Wilder, H. H. & Co., 29 Market
MALDEN—West, Alonzo A.
MANCHESTER—Beaton, D. T.
Carter, J. W.
MARLBORO—Hall, G. R. & Co., 371 Lincoln
Hill, W. H., 114 Main
MELROSE—Brock Bros.
METHUEN—Sanborn Furnace Co.
NEW BEDFORD—Wood, Brightman & Co.
Wood, Brightman & Co.
ROCKPORT—Smith, L. E.
Thurston & Hale, Dock Sq
SOUTHBURIDGE—Winter, G. C.
SOUTH HADLEY FALLS—Moriarty Bros.
SPRINGFIELD—Atwater, E. C. & Co., 21
Beebe, N. S., 17 Florida Taylor
Brunton, M. J. & Son, 173 Liberty
Estabrook, Geo. R., 146 State
Hampden Cornice Works, 26 Taylor
Kirkham, J. Stuart, 71 Dwight
Pratt, H. J. & Co., 97 Dwight
Wilson, Robert, 341 Worthington
STOCKBRIDGE—Van Dusen, Mrs. Jno. O.
STOUGHTON—Burrell, H. G.
Deacon, D.
TAUNTON—Munroe Plumbing Co., Bay c
Newhall, G. S., 6 Main Britannia
Whitmarsh, I. F., 64 Weir
Wordell Plumbing Co., 46 Weir
WALPOLE—Spear, H. A., Jr.
WALTHAM—Carr, F. C., 563 Main
Codrner & Cavanaugh
WEBSTER—Bates, A. J. & Son
Rosebrooks & Cummings
WORCESTER—Barnard, Geo. A., 74 Prescott
New England Steel Roofing Co., 274 Main

MICHIGAN.

ALLEGAN—Phillips Bros.
 ALPENA—Campbell, W. H.
 ANN ARBOR—Hock Bros., 507 S Ashley
 BATTLE CREEK—McCallum, Wm.
 Peterson, J. G., 29 Washington av, N
 Wattles & Strong
 BAY CITY—Bay City Cornice Co., Water st
 Walther, A. & Sons
 Wilson & Wanless
 BENTON HARBOR—Emerson, Alfred
 CALUMET—Cariton Hardware Co.
 CASSOPOLIS—Hayden, W. B. & Son
 CHARLEVOIX—Charlevoix Hardware Co.
 CHARLOTTE—Munger, J. W. & Sons
 CHEBOYGAN—Cueny, J. E. & Bro.
 Post, J. J. & Co., Hardware
 COLDWATER—Allen, D. C. & Co.
 Chandler & Lee
 Kerr Bros.
 DETROIT—Berschbach & Herz, 634 Gratiot
 avenue
 Bertling, Paul C., 344 Grand River av
 BURTON, W. J. CO., 161 W. Congress.
 (See adv. index, end of book)
 Candler, J. D. & Co., 177 High, E
 Clark, Jas. P., 18 Grant st
 Detroit Cornice & Slate Co., 145 St. An-
 toine
 Eagle Cornice & Roofing Co., 959 Fort, W
 Hines, H. C. & Co., 354 Humboldt av
 Howie Roofing Co., 370 4th av
 Hutton, Robt. & Co., 112 Fort, E
 Lewis, Henry B., 45 Jos. Campau av
 Michigan Cornice & Slate W'ks, 117 Fort, E
 Orth, Adam J., 166 Hastings
 Pndrith & Candler, 74 Brush
 Union Sheet Metal Works, 815 Russell
 Volgt & Sexaner, 146 Sherman
 Wrench, Chas. E., 200 Beaubien
 ESCANABA—Delta Hdw. Co.
 Escanaba Hdw. Co.
 EVART—Smith, J. K.
 FLINT—Foote, C. F.
 Hubbard, George W. & Son
 FREMONT—Hain, G. E. Co.
 GRAND RAPIDS—Grand Rapids Steel Met-
 al & Roofing
 Hopson, W. C. Co.
 Sokup, F. J., 121 S Front
 Stroul & McGurrian, 37 S Division
 Weatherly Co.
 HOLLAND—Van Landegend, G. A.
 Van Landegend, Tyler
 HOUGHTON—Portage Lake Hdw. Co., Ltd.
 HOWELL—Schroeder, F. P.
 ISIPHEMING—Eggan, F. J.
 Jochim, J. W. Hardware Co. (Ltd.)
 JACKSON—Barrett & Daly
 Creque, Josiah
 McGraw & Crone
 McLean, Frank & Co.
 Oleslager, John B.
 KALAMAZOO—A. & D. Sheet Metal Works,
 216 N Rose
 Kalamazoo Cornice Works, 149 E Water
 Kalamazoo Galvanizing Works
 Lakey, A. L. Co., 226 N. Burdick
 Middaugh, E. H., 206 E. Water
 LANSING—Fleming, Jas.
 Mudford, Wm.
 Person Mfg. Co.
 LAPEER—Gray, Sidney T.
 LUDINGTON—Bradt, Frank
 Goodsel, R. J. Hdw. Co.
 Huston, H. V.
 MANISTEE—Lloyd & Smith
 Master Iron Works, The
 Miller, Wm.
 MARQUETTE—Clark, D. M.
 Manhard, M. R. & Son
 MENOMONEE—Bertholdt, H. C.
 Fernstrum, F. G.
 Northern Hardware & Supply Co.
 MIDLAND—Reardon Bros. Merc. Co.
 MUSKEGON—Towner Hardware Co.
 Towner Hardware Co.
 NEGAINEE—Lucas, H. N.
 Neeley, Benjamin
 NORTHVILLE—Carpenter & Huff
 PLYMOUTH—Connor Hdw. Co.
 PORT HURON—Dart, James A.
 QUINCY—Cole, S. B.
 ROCHESTER—Tienken & Case
 Wood, H. L. & Son
 SAGINAW—Barlett, A. F. & Co., 930 S Tilden
 Eagle Cornice Works
 Jacobl, Alex., 113 N Warren av
 Leverer, J. S.
 Martin, B. & Son
 Saginaw Sheet Metal Works
 Tanh, H. L., 1151 Genesee av
 VALLEY CORNICE & SLATE CO.,
 Ltd. (Also Copper), 314-318 N. Hamil-
 ton, W. S. (See adv. index, end of book)

SAULT STE MARIE—Soo Hdw. Co.
 SHELBY—Rankin, A. J.
 TECUMSEH—Satterthwaite Bros.
 VASSAR—Dean, H. C.

MINNESOTA.

DULUTH—Burrell & Harmon, 308 E Superior
 Deetz & Co., 408 E. Superior
 Duluth Corrugating & Roofing Co., 126 E
 Michigan
 Ehnstrom, J. V., 2009 W. Superior
 Helbing, L. R. Co., 322 E Superior
 Hollihan & Milostan, 207 W 1st
 Star Roofing & Cornice W., 209 Lake av
 ELYSIAN—Elysian Hardware Co.
 FERGUS FALLS—Bauer, Jos., 125 Bismarck
 av
 LITTLE FALLS—Berg, J. W.
 MINNEAPOLIS—Crittenden Roofing & Mfg.
 Co., 918 S 4th
 Gerber, J. J., 128 6th av S.
 Haglin, C. F., 229 Lumber Exchange
 Nees, Louis & Co., 1207 S 3d
 Northwestern Roofing, Cornice & Stamping
 Works, 1113 S 5th
 Selden Roofing & Manufacturing Co., 78
 Western av
 Stremel Bros. Roofing & Cornice Co., 1215
 Wash'n av, N.
 Townsend, A. W., 20 2d, S
 NORTHFIELD—Northfield Furnace Co.
 OWATONNA—Parrott & Smith
 RED WING—Swanson & Anderson, 312 Main
 ST. CLOUD—Ladner, C. F.
 Powell Hdw. Co.
 ST. PAUL—Bergstrom, Mrs. Carl
 Griffin & Boehme, 121 W University av
 Haug, Joseph, Roofing & Cornice Co., 30
 W Third
 Laubach, J. A. Roofing & Cornice Works,
 470 S Robert
 Lefebvre-Deslauriers Roofing & Cornice Co.,
 28 8th
 Minnesota Roofing & Cornice Works, 135 12th
 St. Paul Roofing, Cornice & Ornament Co.
 St. Paul Roofing, Cornice & Ornamental Co.,
 Water c Wabasha
 Scribner-Libbey Co., 221 W 5th
 Staples & Staples, 565 Decatur
 ST. PETER—Feidman, Chas.
 SAUK CENTER—Hilbernd, G. & Co.
 WINONA—Magnus & Wilkens, 119 E 2d
 Magnus & Wilkens, 119 E. 2d

MISSISSIPPI.

NATCHEZ—Mulvihill, P. W.
 VICKSBURG—Bruser, W. H.
 Waggener Plumbing Co.
 YAZOO CITY—Cummings, M. F.
 Jenne, George

MISSOURI.

BOONVILLE—Vanatta, Frank
 BUTLER—Bennett-Wheeler Mfr. Co.
 CAPE GIRARDEAU—Bruukhorst, A. F.
 Vogel, W. H.
 CARTHAGE—Cartbage Cornice Works
 COLUMBIA—Gribble, H. J.
 DE SOTO—Berg, Fred.
 Slawson, A. F.
 HERMAN—Eberlin, Christ
 HUNTSVILLE—Cathoun, V. B.
 INDEPENDENCE—Hill & Martin
 JOPLIN—Eagle Cornice Works
 Kingston, W. H.
 Kitching, Wm.
 KANSAS CITY—Geis, John J.
 Kansas City Cornice Works, 1733 Harrison
 Kansas City Furnace Co., 618 Prospect
 Kansas City Roofing & Corrugating Co., 220
 W 3d
 Martz & Roebber, 1313 Main
 Ritzler, J. A. Cornice & Ornament Co.
 Stophlet, Frank C., 12 E Missouri av
 Twicheil Iron Co., 220 W. 3d
 Van-Stone, Walter, 1710 Walnut
 Weis, Henry Cornice Co., 1815 Wyandotte
 Werner & Stolte, 1933 Grand av
 Wledemann, W. C., 1710 McGee
 Zahner Mfg. Co.
 KIRKSVILLE—Eggert, S. L.
 LEBANON—Kohy, Victor
 LEXINGTON—King & Marrs
 Schawe, G. C.
 Yungling, C. E.
 Weis, W. F.
 MOBERLY—Stauffer, P. & Co.
 Stauffer, P. & Co.
 NEOSHO—Briggs Hdw. Co.
 ST. JOSEPH—Langan, Peter, 305 S 4th
 Seaman & Schuske, 1604 Fredk av
 Seaman & Schuske Metal Works Co.,
 1604 Fredk av
 St. Joseph Cornice Works, 742 S 6th

Wehrman, Wm., 119 N 2d
 Whelan, Alex., 1001 S 10th
 ST. LOUIS—Bannantine Galv. Iron Mfg. Co.,
 113 Souldard
 Caplan Galvanized Iron Cornice Co., 4412
 Clemens, Jobu, 1922 S 7th Easton av
 Eagle Metal Works Co., 1512 Clark av
 Excelsior Cornice Co., 7821 Ivory av
 Fleck & Stark, 3635 S Broadway
 Gerock Bros. Mfg. Co., 1252 Old Manchester
 rd
 Glessow Cornice Works, 3721 Cass av
 Hammond, C. S. & Co., 1500 N 2d
 Hopmann Cornice Co., 2500 N Jefferson
 Knox, Thos. & Co., 4608 Easton av
 Kohlmeier, G. E., 8222 N B'way
 Mesker & Bro., 421 S 6th
 Mungenast, Jos. & Bro., 3215 Meramec
 Newport Cornice & Furnace Co., 3205
 Chouteau av
 Powers & Boyd Cornice & Roofing Co., 3614
 Laclede av
 Rowland Sheet Iron & Cornice Works, 3713
 Ruth, Jno. F., 4298 Page boul Cass av
 Sidler, B. & Co., 1823 N Taylor av
 South St. Louis Cornice Works Co., 3032
 Iowa av
 St. Louis Cornice Co., 1914 Union boul
 Sydow, Herman, 6333 S B'way
 Tiernan, Luke, 1019 Chestnut
 Von der Au & Cluss Mfg. Co., 2408 S Jef-
 ferson av
 SPRINGFIELD—Ansiinger & Co.

MONTANA.

ANACONDA—Copper City Commercial Co.
 BOZEMAN—McCay, H. B.
 BUTTE—Dorhoffer, F. J., 9 S Montana
 GREAT FALLS—Great Falls Iron Works
 Murphy-MacIay Hardware Co.
 HELENA—Adams Heating & Plumbing Co.,
 McKinnon, H. A. Power blk
 Rumell, J., Estate of
 KALISPELL—McIntosh Hardware Co.

NEBRASKA.

BEATRICE—Spieler, Jos.
 FREMONT—Globe Cornice Works
 Smith, F. M. & Son
 HOOPER—Heine, J. P. & Son
 KEARNEY—Kearney H'ware Co.
 LINCOLN—Gaiser Bros.
 NORTH PLATTE—Fillion, Jos. T.
 OMAHA—Bjornson & Haas, 214 N 15th
 Carter, R. L., 1724 St. Mary's av
 Cox Furnace & Tin Co.
 Epeneter Cornice Works
 Kastl, J. F.
 Knecht, Mrs. Augustus
 Olson Bros, 2570 Leavenworth
 PLATTSMOUTH—Kroeier Bros.
 SCHUYLER—Pence, J. A.

NEVADA.

GOLDFIELD—Shillington, J. E. & Co.
 RENO—Nevada Plumbing & Sheet Metal
 Works

NEW HAMPSHIRE.

BERLIN—Berlin Mills Co.
 CONCORD—Bailey & Merriman, 8 Main.
 MANCHESTER—Lawson, H. J., 26 Auburn
 Pike & Heald Co., 972 Elm
 O'Brien, M., 123 Amherst
 PORTSMOUTH—Paul, W. E.
 Sweetser, J. G.

NEW JERSEY.

ATLANTIC CITY—Atlantic City Cornice
 Currie Co. Works
 Horan, Mich. J.
 BAYONNE—Devaney, Jno. J., 297 Av D
 Gilbertson, J.
 BERNARDSVILLE—Bromfield, W. R.
 Griffith, C. H.
 BOONTON—Kopps, Jno. I. Sons
 BOUNDBROOK—Williams, Thos. F.
 Zapp, W.
 CAMDEN—Cole, Chas. A., Est., Delaware av
 Metallic Mfg. Co., 232 Spruce c Wood
 Trego, Waldo R. Co., 505 N 5th
 ENGLEWOOD—Beck, Wm.
 Dubois, Chas. L.
 Hickey & Baker
 ELIZABETH—Elizabeth Cornice Works
 Faulks, Jas. H. Co.
 HARRISON—Godby, W. H. & Bro.
 HIGHTSTOWN—Taylor, Jas. A.
 HOBOKEN—Dorsett, T. W. Co., 1113 Clinton
 Leonard Sheet Metal Works (Inc.), 219
 Grand

JERSEY CITY—Donovan, D. F., 390 7th
Henningsen, Henry, Co., 15 Garrison av
Newark av
NATIONAL SHEET METAL ROOF-
ing Co., 339 Grand. (See adv. index,
end of book)

New York Iron Roofing & Corrugating Co.
Ringle, Jacob & Son (also Copper, etc.), 83
Schreck & Waelty, 27 Hague
LONG BRANCH—Warwick, W. R., Jr.
NEWARK—Allwood, J. R. & Son, 39 Marshall
Baier & Conrad, 336 Hunterdon
Bleeker, Jos., 130 South
Ding & Tensher, 476 18th av
Engelberger, F. & W. V. Co., 159 Jelliff av
Essex Cornice & Skylight Works, 109
Himmel, Louis, 115 Belmont av
Houston
Howarth Bros. Co., 62 N. J. R. R. av
Newark Cornice & Skylight Works, 9 17th av
Schwing & Co., 190 Ferry
Smith, Frank F., 19 Division
Steinberg, Jacob, 229 Belmont av
Zenglein, Jno. A., 45 Winans av
PASSAIC—Faielstrom & Tornquist Co.
PATERSON—Lendrim, H. C. Co., 84 Clay
McNeil, Lawrence W., 427 Grand
Quinn Bros.
Rogers, Andrew J. Co., 90 Bway
PRINCETON—Margerum, H. W.
Stryker, A. Y.
RARITAN—Wyckoff, J. C.
RED BANK—Patterson, J. C.
RUTHERFORD—Tallman, S. C.
SALEM—Righter, J. C.
TRENTON—Trenton Excelsior Cornice Wks
WEST HOBOKEN—Gutschmidt, W. H., 810
Hammersen, Wm. John
Sutter, Louis
WOODBURY—Kleinhanz, Jno. V.
Muller Bros.

NEW MEXICO.

ALBUQUERQUE—McClaskey, W. A., 315 W
Railroad

NEW YORK.

ALBANY—Ackroyd, Jas. & Sons, 964 B'way
Fitzgerald, Jno. L., 22 Beaver
Gorman, Jas. J., 14 Norton
Hoffmann, J. H. B., 90 Green
Macnee & Rabe, 659 B'way
Walsh's, Jas. D. Sons, 40 Sheridan av
AMSTERDAM—Dwyer, Cornelius
Dwyer Bros.
AUBURN—Auburn Iron Co.
Hungerford, J. A.
BALLSTON SPA—Tracy, John J.
BINGHAMTON—Freeman, E. G. & Co., 81
McIntyre & Hull, 77 State Water
Lynch, Jno. R. & Son, 86 State
Young, J. J., 233 Chenango
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—Buffalo Galvanizing & Tinning
Works, 51 Jackson
Christmann, Philip & Sons, Orange & Vir-
ginia
Elsinghorst, A. F., 138 B'way
Gruber, Rupert & Co., 541 Sherman
Lindsay, Wilson, 167 E Ferry
Lipp & Nauth, 334 Genesee
Machwirth Bros. Co. (also Copper, etc.),
Menge, Fred H., 480 Genesee 201 Oak
Peters, G. H. Co., 293 Oak
Rademacher Bros., 345 Fox
Roty, A. & Son, 835 Main
CANASTOTA—Bemiss & Co.
CATSKILL—Day & Holt Co.
CATTARAUGUS—Eherlee, T. J.
Jewell, J. H. & Sons
COHOES—Loop, Wm. H., 44 Van Rensselaer
CUBA—Sisson & Smalley
DOBBS FERRY—Stess, A. C.
ELMIRA—Barker, Rose & Clinton, 109 Lake
Gridley, G. A. & Son, 126 W Water
Young, Chas. W., 114 Lake
FORT PLAIN—Linney, W. T.
Stewart & Bergen Co.
FULTON—Johnston, Geo.
Snow, A. J.
GLENS FALLS—Adams, G. E. & Co.
HUDSON—Macy, Frank A.
ISLIP—Lennon, Jos.
JAMAICA—(See New York City, Borough of
Queens)
KEESVILLE—Callanan Bros.
KINGSTON—Wieber, Henry E. (Est. of)
LESTERSHIRE—Becker, C. D.
LONG ISLAND CITY—(See New York City,
Borough of Queens)
LYONS—Hartman, Wm. T.
Marshall & Noble
Zimmerlin Bros.
MARLBORO—Hughes, T. H.
MECHANICSVILLE—Allen, Wm. H.

MOHAWK—Richardson Co.
MORAVIA—Small, F. & Sons
MOUNT KISCO—Gorham, G. W.
MOUNT VERNON—Norden, J., 48 Mt. Vernon
NEWBURGH—Atlas Roofing Co. avenue
NEW ROCHELLE—Helmrich, Geo.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Beer, M. F., 1624 B'way
Blecher Bros., 49 Nostrand av
Buchanan's, A. Sons, 490 Sumner av
Clifford, Neil, 382 Union
Davis, Jno., 20 Wyckoff
Friedberg & Klein, 278 Division av
Friedman, S. M. Co., 95 Cedar
Fuchs, Louis, 1267 Gates av
Gartenberg, Morris, 426 6th av
Gogarty, M. J., 1531 Fulton
Gorlitz, S., 64 Reld av
Greenthaler, Chris., 333 Thorp av
Halpin, Jas., 936 De Kalb av
Herrmann & Grace, 671 Bergen
Hoellerer, Geo., 908 Bergen
Kuhla, August, 10 Lorimer
Kuhla, Ernest & Sons, 71 Hinsdale
Muller, E. A. & Bro., 687 4th av
Ostergren, K. M., 765 DeKalb av
Ostergren, Samuel & Sons, 725 3d av
Otto, J. M., 46 Maujer
Rosenthal & Weisingen, 66 Morrell
Schnitzspan, H. V., 800 Wythe av, Brook-
lyn, N. Y.
Seton, Frank J., 78 Washington av
Waldhauer, Fred'k, 1723 Nostrand av
White, Jas. Co., 448 Adelphi

Boroughs of Manhattan & Bronx.

NEW YORK—Abbott's, M. Sous, 137 8th av
Architectural Cornice & Skylight Works,
325 W 38th
Baron Sheet Metal Works, 454 W 41st
Beer & Hess, 223 W 35th
Berglund, Chas. & Son, 774 3d av
Blayer, Chr., 20 Bradhurst av
Blechner, Albert, 675 Bergen av
Blechner Bros., 43 1st
Bois Sheet Metal Works, 562 W 34th
Borkel, Jno., 42 E Houston
Cary-Doerhoefer Co., 124 E 129th
Coleman & Krause, 515 W 29th
Deutsch, Jacob, 17 Stanton
Dietze, Oscar, 242 E 80th
Dreyer & Co., 324 E 65th
Duun, L. J., 164 E 120th
Ehrlich, Wm., 287 Av C
Emple Cornice Works, 396 Broome
Feld, Max, 949 Home
Freyberg, Rich. H., 2308 2d av
Garfein, Aaron, 304 E 150th
Giegerich, Jno., 424 E 59th
Greenky, Louis, 853 Cauldwell av
Harlem Cornice & Roofing Co., 1960 Park av
Harrison, M. & Son, 214 E 52d
Hilts, Wm. H., 77 W 3d
Hinz, Albert, 403 E 16th
Kanzler, Chas., 618 E 154th
Katz, I. & Co., 106 3d
Krauth, Carl
Lazarous & Hirschenfeld, 180 Av C
Lless, E., 2324 Bathgate av
Loeble, August H., 6 Sullivan
MCFARLAND, J. C. & CO., 213 and 215
E 44th. (See adv. index, end of book)
Manhattan Tin Roofing Co., 170 E 112th
Marshall & Co., 281 E B'way
May, Wm. M., 798 11th av
Morrow, John Co., 225 W 50th
Muller, R. & O., 358 E 151st
Murphy, Geo. M., 43 New Chambers
Neil's, John Son, 436 W 17th
New York Cornice Works, 335 E 32d
New York Cornice & Skylight Works, 406
E 151st
New York Sheet Metal Works, 515 W 29th
North Side Cornice & Roofing Co., 153
Castle Hill av
Oppel, Rudolph, 335 E 32d
Pasewark, C. H. & Co., 347 E 105th
Perske, Frank, 439 E 92d
Peters, Wm. C., Carter av. c E 176th
Pfeiffer Bros., 473 Greenwich
Preusser, Jno., 302 W 122d
Rosenberg, Adolph, 512 E 17th
Samet & Schoen, 4187 Park av
Saron, David, 2164 Madison av
Schwoerer, A. & Sons, 530 E 80th
Smith & Dorsett, 405 E 47th
Sommerfeld & Riesner, 325 W 38th
Star Cornice, Skylight & Roofing Wks.,
569 3d av
Storch, L. A. & Co., 517 E 73d
United Cornice & Skylight Works, 153 Lewis

Vincent, Wm. E. D., 133 E 118th
Walther, Max, 532 E 142d
Welss, Morris L., 613 E 16th
Westergren, M. F. (inc.), 213 E 144th
Winter, Jacob Co., 712 Lexington av

Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 31 Vernon
Petry, John W., 63 Vernou av
(End of New York City)
NEW YORK MILLS—Hastings, M. E.
NIAGARA FALLS—Mackwith Bros. Co.
OLEAN—Pierce, O. W.
ONEIDA—Lype, Norman
OSWEGO—Oswego Hdw. Co., W 1st
PENNYAN—Hollowell & Wise
PORT JEFFERSON—Davis & Co.
POUGHKEEPSIE—Aldrich, Elbert, 391 Mill
RAVENA—Strevell & De Friest
RED HOOK—Curtis, J. A.
ROCHESTER—Brown & Martin, 476 N Goodman
Calder, Robert, 86 Exchange
Fricker Co., John, 10 Ely
Knowles, John W., 50 Franklin
Ratt & Smith, 40 Stone
Rochester Roofing & Heating Co.
Schoenemann, Fred, 382 St. Paul
Siddons, John Co., 61 N Water
RONDOUT—(See Kingston)
ROUSES POINT—Chilton & Jones
SCHENECTADY—Allen, Jno.
MacGregor, Thos. F.
SCHUYLERVILLE—McRae, G. S. & Co.
SHELTER ISLAND—Harris, C. S.
SYRACUSE—Blant, Jos. A., 227 James
Bradford & Deruche, 439 E Water
Cashman & McConther, 372 W Fayette
Curran, Jas., 213 N Franklin
Donovan & McCarthy, 412 So West
Gooley, W. F., 1911 W Fayette
TONAWANDA—Koenig, H. B.
TROY—Loeble, Wm., 422 River
Manogue, Edw'd Co., ft of Grand
UTICA—Metal Roofing & Cornice Co., 71 Main
WARWICK—Montross, A. W.
Ogden & Pelton
WATERTOWN—Arthur, H. S., 46 Court
McCrary & Rogers, 42 State
Spratt, Corcoran & Foley Co., 48 Court
WATKINS—Durland, L. H. Son & Co.
WELLSVILLE—Hoyt Hdw. Co.
Vincent, C. F., Estate of
WHITE PLAINS—Fowler & Sellars Co.
YONKERS—McVicar, Thos., 30 Dock
McVicar, Wm. H., 83 Woodworth av
Scholding Bros., 167 Nepperhan av

NORTH CAROLINA.

ASHEVILLE—McPherson, Jos. C.
CHARLOTTE—McCausland, J. N. & Co.
Ray, G. G. & Co.
Shuman, C. F.
GREENSBORO—Johnson Mfg. Co.
Yates, J. F.
WINSTON SALEM—Brickenstein, L. B.

NORTH DAKOTA.

FARGO—Fargo Cornice & Ornament Co.
WHAIPETON—Jameson, W. W.
Schultz, Otto H.

OHIO.

AKRON—Akers & Harpham
Akron Roofing Co.
Kasch Roofing Co.
May Fieberger Co.
Pouchott—Hunsicker Co.
ALLIANCE—Love, Casselman & Co.
CADIZ—Bryan, H. E.
CAMBRIDGE—Cambridge Roofing Co.
Hartley, W. H. & Sons
CANTON—BERGER MFG. CO., THE.
(See adv. index, end of book)
Canton Art Metal Co.
CANTON MFG. CO., THE (Cornices
& Skylights. (See adv. index, end of
book)
Eller Mfg. Co.
Kunneberg Roofing & Ceiling Co.
CINCINNATI—Andler, Adam, 3023 Highland
av, Mt. A.
Beckman & Co., 953 Garfield av
Beckman, Wm., 1543 Race
Blum, Albert, 2837 Woodburn av
Boesch, Victor P. & Son, 2432 Eastern av
Brandis Bros., 3109 Reading rd
Brockmann & Schnessler, 330 W 3d
Prophy, John L., 25 W Canal
Cincinnati Cornice Works, 637 W Court
Dearing, Fred W., 3829 Glenway av
Dirr, George L. & Son, 3631 Warsaw av
Eagle Galvanized Iron Cornice Works, 215
W. 3d

EDWARDS MFG. CO., 545-565 Eggleston av. (See adv. index, end of book)
 Emmers Cornice Co., 1007 B'way
 Fahle & Dietrich, 537 Oliver
 Fisher, Philip, 1066 Central av
 Freund, J. Roofing Co., Mitchell av & B. & O. S. W. Ry.
 Gilbert Cornice Co., 1912 Vine
 Goodling, Michael, 1824 Race
 Grelwe, E. & Bro., 1128 B'way
 Grueninger, Louls, Court & Freeman av
 Hauck, Michael, 14 E 13th
 Hlrt Bros., 1814 Race
 Jansen, John F., 2140 Gilbert av
 Kohmann, Chas., 1919 Central av
 Kopelent, Henry, 2723 Vine
 Meyer, Edw. & Co., Elm & Green
 Neahrey, J. H., 637 W Court
 Porter Iron Roofing & Corrugating Co., S
 Queen City Exhaust & Blow Pipe Co., 1732 Central av
 Rothert, Wm. & H., 1603 Main
 Scott Roofing & Mfg. Co., 224 E Front
 Spatz, Wm. C. c Powers & Tozzer
 Standard Roofing Co., 1662 Providence
 Stevens, Albert, 1125 E 3d
 Sweeney, J. A. & Co., 829 W 5th
 Verges, Ferd. F., 2543 Vine
 Weigel, John Co., 684 E McMillan
 Weissenberger, Geo. K., 4006 Spg Grove av
 Witt Cornice Co., 8th & B'way
 Witt & Brown, 215 W 3d
 Zoller, Fred, 1732 Central av
CLEVELAND—Callaghan, J. & Son, 1119 Superior, N E
 Cleveland Galvanizing Works Co., 3924 Cooper, N E
 Cleveland Metal Roofing & Ceiling Co., 3105 Detroit
 Garry Iron & Steel Co., 1270 E 53d
 Mannen & Esterly Co., 2247 St. Clair
 Ohio Roofing Co., 1477 Euclid av
 Orth, Chas. F., 2510 Barber av
 Riester & Thesmacher Co., 1512 W 25th
 Rudolph & Son Co., 416 Prospect av, N W
 Schorndorfer Hardware Co., 7601 Woodland av
 Standard Galvanizing & Tack Mfg. Co., Stran, C. W., 1288 E 9th 726 Canal rd
COLUMBUS—Calkins, W. R. & Sons, 752 E Long
 Schilling, John N., 193 N Grant av
 Schoedinger, F. O., 146 N 3d
 Schoedinger-Marr Co.
DAYTON—Bretch, A., 125 E 5th
 Couch, R. L., 1528 W 3d
 Dayton Cornice Works, 327 E 3d
 Hoersting & Holtmann, 1124 W 3d
 Jungelas Cornice Works, 609 W Wash-
 Kenney, J. R., 251 S Wayne av ington
 Rleck, H. F., 508 S Wayne av
 Wulchet, Chas. & Co., 14 S Canal
EAST LIVERPOOL—Watson, A. A.
ELYRIA—Elyria Hdw. Co.
 Fitch & Horning
FINDLAY—Flscns, W. J.
 Hoffman & Bryan
 Klein, Fred
FOREST—Dickelman Mfg. Co.
FOSTORIA—Baker, W. E.
 Ballmer, D. R.
 Newson, Jas. L.
 Stewart Hdw. Co.
GALION—Sponbauer, H. C.
 Zimmerman, J. H.
GLENDAL—Dollman, J. W. & Son
 Schatzman, P. & Son
GREENVILLE—Beedle, C. & Son
 Humphreys, R. T.
HAMILTON—Bauer, E.
 Becker, Jno. L.
 Henn & Bueffer
 Schlosser, Jacob & Son
 Zschau, A. E.
IRONTON—Fillgrove, Louis A.
KENT—Reed, C. R.
LIMA—Smith, Wm. A., 212 S Main
MANSFIELD—Crouse, B. & Son, 21 N Park
 Donaldson, G. W., 20 S Main
 Flohr, G. A., 34 E 3d
 Hoffman, Chas.
 Martin, C. E. & Bro.
 Runyan, C. C.
MARIETTA—Thels, H. P.
MARION—Salter, F. R.
MARYSVILLE—Church Bros. & Weld
 Scott, O. M. & Bro.
MEDINA—Oatman Bros.
MIAMISBURG—Schell & Pansing
MIDDLETON—Fouts, C. C.
MILLERSBURG—Fitch, John
 Shoup, C. C.
NILES—American Sheet & Tin Plate Co.
 Cramer Bros., 108 S Main

Unger, F. S. & Co., 11 N Main
PIQUA—Lee, Geo. E.
PORTSMOUTH—Glockner, Alexander M.
SALEM—Mullins, W. H. Co. (also Copper)
SANDUSKY—Mertz, J. & Sons
SHELBY—Armstrong, Rauch & Trimble
 Standard Mfg. Co.
SIDNEY—Rheiniche, George
SPRINGFIELD—Hauck, Chas. F. & Co., 35 W Main
 Lafferty, Sam'l J., & Sons, 55 E. Main
 Peet & Schuster Co., 118 S Center
TOLEDO—Curran & Firth, 620 Monroe
 Gerken, J. D. & Co., 1311 Washington
 Hofer, Fred, Jr., 11 Washington
 Hoffman & Harpst Co., 1005 Cherry
 Toledo Cornice & Copper Works, 130 Ot-
 Warnke, Bros. tawa
 Wolf Hardware Co.
 Wortsmith, Frank, 415 Huron
WARREN—Browning Bros., 203 E Market
 Skinner, L. E., 16½ W Market
WASHINGTON, C. H.—Allen, Chas.
 Wilson, J. W. & Co.
WELLINGTON—Pelce, A. H.
WILMINGTON—Jefferis, J. M., & Son
WOOSTER—McClure (The), Co.
XENIA—Henrie, C. C.
YOUNGSTOWN—Dallzell Bros.
 Squire, Jno. R.
 Youngstown Iron & Steel Roofing Co., The
 Youngstown Sheet & Tube Co., The
ZANESVILLE—Hanlon & Saup
 Ludy, J. W.
 Snyder Roofing Co.

OREGON.

ALBANY—Albany Hardware Co.
BAKER CITY—Basche-Sage Hardware Co.
GRANTS PASS—Corcoran, E.
 Cramer Bros.
 Hair-Riddle Hardware Co.
McMINNVILLE—Hodson, O. O.
PORTLAND—Bayer, J. C., 265 2d
 Moore-Meagher Co., 209 Wash
 Tilton Bros., 105 5th
 Wynkoop, Lyman, W., 248 Ash
SALEM—Barr, T. M.
 Fraser, A. L.

PENNSYLVANIA.

ALLEGHENY—Allegheny Cornice & Skylight Co. (Also Copper)
 Irwin, Thos. W., 411 Rebecca
SCHOLES BROS., 1241 Rebecca.
ALLENTOWN—Allentown Cornice Works
 Best, J. A. & Co.
 Hersh & Bro., 829 Hamilton
 Miller, Jacob, 535 Linden
 Neff, Wm. F.
ALTOONA—England, S. B.
 Garrahan, P. F.
 Hughes, J. C. & Son, 906 8th av
 Johnson, A. A., 1218 8th av
 Klealus, G., 609 12th
 Wilkinson, Lee A.
ARDMORE—Whelan, Martin.
ASHLAND—Lauer, J. J.
 McConnell & Bro.
BEAVER FALLS—Davidson, W. J.
BELLEFONTE—Twiltmire, W. T.
BETHLEHEM—Lehigh Valley Cornice Works
BRADDOCK—Loew, John A. & Co.
 Shlirer, John W.
BRADFORD—Dean & Love
BUTLER—Campbell, J. G. & W.
 Hauck, F. J.
 Hauck, Jos. R.
CARNegie—Rome, George & Co.
CHESTER—Armitage, Geo. L.
 Doran, Jno. A.
 Goodman, K. & Son
 Ward, Hugh H.
CLEARFIELD—Johnson, F. & Bro.
 Powell, J. Frank
 Powell, W. F.
CONNELLSVILLE—Munson Bros.
CORRY—Barlow Hdw. Co.
 Guignon, E. E.
 Guignon, H. A.
 Miller & Stuart
DUQUESNE—Thomas, G. E.
EASTON—Arndt, Wm.
 Kinsey, Howard P.
 Miller, E. H.
 Stotz Bros.
EAST STROUDSBURG—Lessig, J.
ERIE—Braggins, John H., 1128 Sassafras
 Miller Hardware Co.
 Murphy Bros., 22 N Park
 Patterson & Stirling, 12th & French
GIRARDVILLE—Griffiths Hardware Co.

GREENSBURG—Overly, W. F.
HALLSTEAD—Rogers, Jos. B.
HANOVER—Bargelt, Louis
HARRISBURG—Fager, G. C., & Son
 Zollinger, G. J., 308 Blackberry av
HAZLETON—Barber, Robert B.
 Koehler, Fred.
HOMESTEAD—Snyder, Louis B.
HONESDALE—Erk Bros.
 Watts, G.
INDIANA—Alter, C. A.
 Hamilton, George T.
JOHNSTOWN—Doyle, Frank
 Fenn, Wm. J.
 Friedhoff & Mahaffey
 Joy Bros.
KINGSTON—Johnson, H. F. & Sons
LANCASTER—Arnold, John L.
 Pohl, John E.
 Sheet Metal & Supply Co.
LOCK HAVEN—Ficklinshier, Fred
McKEESPORT—Kemp, Jas. F. & Bro.
 Miller & Matthews
MAHANOX CITY—Morgan, William
MECHANICSBURG—Hauck Bros.
NANTICOKE—Hill & Evans
NICHOLSON—McConnell & Lord
OIL CITY—Booker Sheet Metal Wks.
PEN ARGYL—Correll, R. S.
PHILADELPHIA—Abronski Bros., 1615 Stiles
 American Metal Cornice Works, 1224 On-
 Arensberg, Wm., 933 S 6th tario
 Bohem, A. & G., 1438 Federal
 Bondurant & Schuch (Inc.), 1410 Oxford
 Cantlon & Co., 5002 Willows av
 Central Cornice Works, 3420 Market
 Enterprise Cornice Works, 4714 Market
 Excelsior Cornice Works, 515 Lombard av
 Gara, McGinley & Co., 23 S. 17th
 Garthaus, H. A., 1847 N 6th
 Germantown Cornice Works, 162 E Chelton
 Girard Cornice Works, 1208 Gtn. av av
 Graber, Francis, 2306 N 3d
 Humphreville, Edwin, 2641 N Hutchinson
 Lupton's D. Sons Co., Allegheny av & Tulip
 Meade Roofing Co., Woodlawn av & 46th
 Northwestern Cornice Works, 2639 Hagert
 Penn Metal Ceiling & Roofing Co., 23d & Hamilton
 Philadelphia Metal Cornice Works, 1847 N
 Rhodes & Maloney 6th
 Thorn, J. S. Co. (Also Copper), 20th & Allegheny av
PHILLIPSBURG—Bortel & Deml
PHOENIXVILLE—Caswell & Moore
PITTSBURG—Allegheny Cornice & Skylight Co., 409 Ferguson bldg
 Cassidy & Dinkel Co., 2908 Penn
 East End Cornice & Roofing Co., Berlin & Frankstown av
 Kirsch, Jacob, 3234 Penn av
 Luckhardt, Louis, Co., 85 Sweetbriar
 Rasner & Dinger Co., 100 2d av
PITTSBURG—Byrne, Jno. W.
PLYMOUTH—Dymond, E. P.
POTTSVILLE—Herbrick & Co.
 Hoefel, Frederick
READING—Hafer, J. D., 1046 N 8th
 Hahn, Wm. T., 824 Court
 Yeager, Wm. B., 8th & Chestnut
RIDGWAY—Bowen, S. E.
 Cody, C. L.
 Smith Bros. Co. (Ltd.)
SCOTSDALE—Dick, J. I.
SCRANTON—Derby, W. H.
 Gunster Bros.
 Maloney, Jas. P. & Co., 805 Capouse av
SHAMOKIN—Unger, Warren
SHARON—Hoffman, P.
 Sharon—Hoffman, P., & Sons
 Hoffman, J. C. & Bro.
SOUTH BETHLEHEM—McBride, Michl. J.
TITUSVILLE—Hughes, D. D., & Son
UNION CITY—Hatch Hardware Co.
WASHINGTON—Hays, G. W.
WEST BETHLEHEM—Schlosser, J. F.
WEST CHESTER—Apple Plumbing & Heating Co.
 James Bros.
 Palmer, George J.
WILKES-BARRE—Allen & Fell
 Becker, P. & Son
WILKINSBURG—Britner, E. M., South av & P. R. R.
YORK—Kidds, Alex., Son, 137 N George

RHODE ISLAND.

CENTRAL FALLS—Plews, R. Mfg. Co.
EWING—Covell, W. K.
PAWTUCKET—Carpenter, E. P., Tin & Sheet Metal Co., 50 N Main
 Reetz, Robert C.
PROVIDENCE—Brody, Louis, 21 Mill
 Brunnckow, C. G., Co., 223 Globe
 Burgess, James, 254 Prairie av

CLASON ARCHITECTURAL MET-
al Works (and Copper), 428 Kinsley av
(See adv. index, end of book)
Enterprise Cornice & Skylight Works, 27
Harris, Clayton, 281 Canal. Bassett
Hitz, Chas., 9 Calla
Lamoureux, F. & Co., 39 Friendship
Providence Arch'l Metal Works, 237 Dyer
Providence Cornice Co., 311 Canal
Rhode Island Cornice Co., 76 Point
Strauss Co., 303 Eddy
WOONSOCKET—French, O. P. & Son

SOUTH CAROLINA.

AIKEN—Hyer, W. C.
Smith, W. H.
ANDERSON—Acker, E. H.
Archer, F. E.
CHARLESTON—Arnot, A. M.
Charleston Galvanized Iron Cornice & Steel
Masters, R. M., 127 King Ceiling Works
Shepherd Supply Co., 232 Meeting
COLUMBIA—Dozier, L. B., & Co.
Lorick, Lee A. & Bro.
GREENVILLE—Barr Hdw. Co.
Cook, J. A.
ROCK HILL—Westerlund, J. W.
SPARTANBURG—Pickens, R. O., 94 Morgan
UNION—Murrah, T. A.

SOUTH DAKOTA.

RAPID CITY—Sweeney, Tom Hardware Co.
SIOUX FALLS—Stallman, John
YANKTON—Yankton Sheet & Metal Works

TENNESSEE.

BRISTOL—Leslie Tin & Sheet Metal Works
Sweet & Connor
CHATTANOOGA—Chattanooga Roofing &
Foundry Co.
Chattanooga Sheet Metal Works
Goodlake, G. W., 813 Broad
Mountain City Stove & Mfg. Co., 623
McMahon, James Market
McMahon, James
Snow, T. A. Co., 710 Market
Snow, Tom, Tin & Roofing Co.
FAYETTEVILLE—Blakemore, J. A.
Robertson & Goodrich
HARRIMAN—Edington Bros.
Salyers, T. D. (Agt.)
JACKSON—Anderson, G. O. & Co.
KNOXVILLE—Cruze, J.
Mundy & Gredig
Williams, G. R.
MEMPHIS—Burdick, A. W. & Co., 22 Hernando
Chickasaw Iron Works
Cubbins, F. D., 405 2d
Dush, Louis
Eichberg & Lang Mfg. Co.
Fritz, Edw. H., 152 Front
Nohsey & Schwab, 355 2d
Verdel, E. F. & Co., 386 2d
Wessendorf, Charles, 196 Main
NASHVILLE—Cammerer, H. & Son, 227 N Mar-
ket
Howell, Geo.
Kadel, L. J.
Murray, E. T. & Co., 167 N College
Phillips & Buttorff Mfg. Co., 217 N College
Zimmer, A., & Son

TEXAS.

AUSTIN—Buass, J. O., 818 Congress av
CORSICANA—Johnson & Wood Hardware Co.
Tatum, W. M., Hardware Co.
DALLAS—Burke, W. D., 128 N Akard
Hinckley, D. G., 604 S Howard
Huey & Philip Hardware Co., 257 Elm
King, T. F.
Payne, F. T., 652 Elm
DENISON—Campbell & Co.
Waltz, Chris.
EL PASO—Momsen, Gus, Co.
ENNIS—Blakey, J. & Co.
Craig, E. E. & Co.
FORT WORTH—Attwell Cornice Co.
GAINESVILLE—Bosley, L. W.
Calkins, D.
GALVESTON—Breene, Martin
Feddler, Albert, & Co., 2703 Market
Fredericks, W. G., 2309 A
Hoffman, W. A., 2311 Post Office
Miller, W. H., 2627 O
Werner, Geo. P., 1628 Winnie
HILLSBORO—Smith & Tomlinson Co.
HOUSTON—Berger, Albert, 1606 Congress av.
Eisemann & Beck, 303 Caroline
Himstedt, W. F., 1208 1-2 Congress
Holtkamp, E. E.

Necco & Eisenmann Co., 703 Franklin
Puls, Henry, Jr., 1401 Wash'n
Schlom, M. J., & Co., 505 Preston av.
MARSHALL—Logan & Whaley
SAN ANTONIO—Jewett Cornice & Roofing Co.
San Antonio Sheet Metal Wks.
Vodrie, H. B.
Walsh, T. P.
SHERMAN—Roberts, Sanford & Taylor Co.
Walsh Hdw. Co.
TERRELL—Muckleroy & Dew
TYLER—Daglish Merc. & Mfg. Co.
VICTORIA—Mackrell, W. H.
WACO—Strauss, Ed.

UTAH.

EPHRAIM—Jensen, F. Y.
OGDEN—Crosble, R. L.
Newman, W. E.
PROVO—Blumenthal, H. G.
SALT LAKE CITY—Fowler, J. P.
Mitchell, H., 71 S Slate
Salt Lake Hardware Co., 42 W 2d, S

VERMONT.

BENNINGTON—Vail, F. E., 91 Main
BURLINGTON—Hathorne, A. C., Co.
LYNDONVILLE—Eaton, J. C. & Co.
POULTNEY—Horton, M. J. & Son
RANDOLPH—Lamson, J. H., & Sons

VIRGINIA.

CHARLOTTESVILLE—Thomas, R. L. & Co.
DANVILLE—Hodnett, Vass & Watson Co.
Piedmont Hdw. Co.
HAMILTON—Myers, Nathan
HAMPTON—Copeland, J. F.
Williamson, C. M.
HARRISONBURG—Saum, Jno. R.
Saum, M. L.
LEXINGTON—Beckwith, A. B., & Co.
LYNCHBURG—Diuguid, M. M. & Co.
Dornin, T. B., Adams Co.
Doherty & Casey
MANASSAS—Davis, A. B.
NEWPORT NEWS—Richter, G. M. & Son
NORFOLK—Bohn Roofing & Cornice Co., 11
Harwell, R. A., 94 Brewer Plume
Howard, J. T., Co., 50 Washington
RICHMOND—Burton, Reuben, 819 E Cary
STAUNTON—Tanner, Charles & Co.
SUFFOLK—Lilliston, T. M.
WARRENTON—Houchens, T. M.

WASHINGTON.

ELLIENSBURG—Lawrence, A.
NORTH YAKIMA—Sawbridge, Jno.
Yakima Hardware Co.
OLYMPIA—Jones, M. W.
Olympia Hardware Co.
SEATTLE—Alexander, David
Clark, T. F. Co., Flyer Dock
Finlay & Robb, 88 Lenora
Noon, T. A., 1807 7th av.
Poppo & Knowles Co., 1023 Post
Seattle Cornice Works, 1730 1st av, S
Western Sheet Metal Wks, 1751 1st av, S
SPOKANE—Brandt Bros., 207 Division
Brown Bros., 2d & Washington
Brown, Wm., 164 Post
Schrimpf, Chas. G., 25 Monroe
Woodward & Stein
Young, E. H., 826 2d av
TACOMA—Cizek, A. F., Sheet Metal Works
Co., 1325 South O
Miller, Edw. Cornice & Roofing Co., 1114
VANCOUVER—Meyer, J. C. Commerce
WATERVILLE—Carpenter & Murdock

WEST VIRGINIA.

BERKLEY SPRINGS—Ambrose, C. P. & Bro.
BLUEFIELD—Hefner, O. V.
Whitlow, M. G., Hardware Co.
BUCKHANNON—Buckhannon Hardware Co.
CHARLESTON—Brawley, D. A.
Charleston Hardware Co.
Goshorn Hardware Co.
Loewenstein & Sons
Shawver, W. F. & Co.
Wolf & Lloyd
CHARLESTOWN—Easterday & Co.
FAIRMONT—Amos, G. E. & Co.
Morris, J. S. & Son
HUNTINGTON—Hagan, J. B. & Co.
Wilcoxson, C. F.
MARTINSBURG—Cushwa, C. G. & Bro.
Fisher, J. W. R.
Snyder, Wm. S., & Son

MORGANTOWN—Bailey, W. H. Hardware Co.
Barbe & Davis
Morgantown Hardware Co.
PARKERSBURG—Bosbury Bros.
WHEELING—Arkle, J. M., 3617 Jacob
Bayha, D. H., 1918 Main
Caldabaugh, G. W., & Co., 4031 Jacob
Ohio Valley Roofing Co., 928 Market

WISCONSIN.

APPLETON—Schlafer Hdw. Co.
Tesch, Wm.
ASHLAND—French, R. W., & Son
French, R. W. & Son.
Garnich, Emil, & Sons
BARABOO—Gaskell, F. N.
Lee, Radke, Hardware Co.
Pratt, A. H.
BELOIT—Murdock-Dunwiddie Co.
Watson & Bittel
EAU CLAIRE—Eau Claire Cornice & Htg. Co.
Hobbs, W. H., Supply Co.
EVANSVILLE—Baker Manufacturing Co.
FOND DU LAC—Cheney, S. H.
GREEN BAY—Danz, H.
Green Bay Cornice & Corrugating Co.
Harris, Theo. E.
HARTFORD—Esser & Schmidt
Kissel, L. & Sons
HUDSON—Foss-Armstrong Hardware Co.
JANESVILLE—McNamara, Henry L.
Sheldon Hardware Co.
KAUKAUNA—Butler & Dietzler Hardware Co
Haas & Hohman ing Co.
KENOSHA—Dewey, C. A.
English, Jno. J.
Jansen, T. E.
Schulz, H. C.
Skidd, Chas.
LA CROSSE—Badger Steel Roofing & Cor-
rugating Co.
Dittman, Fred. Hardware Co.
Gateway City Steel Tank & Roofing Co.
La Crosse Cornice & Ceiling Co.
La Crosse Steel Roofing & Corrugating Co.
Tausche, V., Hardware Co.
MADISON—Trachte Bros.
Wolf, Kubley & Hirsig
MANITOWOC—Rathsack, Wm. & Sons
Teitjen, Emil
MARINETTE—Simcox, H. B., & Co.
Westlund, August
MENOMONIE—Globe Iron Works Co.
MILWAUKEE—Biersach & Niedermeyer Co.,
216 5th

Bogenberger & Goessel, 70 Mason
Braun & Millen, 534 Clinton
Consolidated Sheet Metal Works, 661 Hub-
Cox, Jos. L., 138 6th bard
Feix & Goethel, 818 Winnebago
Green, D. D., 215 Sixth
Hoffmann & Baur, 279 Lake
Klubertanz, August, 2325 Fon du Lac av
MILWAUKEE CORRUGATING CO.
(Also Copper). (See adv. index, end of
book)
Rombberger, Joseph, 2115 Cherry
Schaetzka, H. E., & Co., 785 7th
Schaetzke, H. E. & Co., 785 7th
Schmitt, F. & Sons Co., 301 4th
Tonnsen, E. B., 51 3d
Toepfer, W. & Son, 76 Menominee
Wisconsin Sheet Metal Works, 345 33d av
MINERAL POINT—Penhallegon, John J.
MONROE—Kundert, C. Hardware Co.
NEENAH—Krueger, Wm. & Co.
Stroebel, J. F.
OSHKOSH—Krippene Hardware Co.
Leach, Frank Hardware Co.
Tank & Tieman
Terwedo, L. R.
PORTAGE—Schulze Hardware Co.
RACINE—Divon, John, & Son Co.
REEDSBURG—Siefert, Aug., Hardware Co.
RICHLAND—CENTER—Lamberson, Ward
Strang, G. H., Hardware Co.
SHEROYGAN—Geele, F. Hardware Co.
Miller Hardware Co.
SUPERIOR—Arnold & Schimmel
Bingham Hdw. Co.
Carlson Bros.
Holmes, E. A. & Bro. Co.
WATERTOWN—Kusel, D. & F. Co.
Pritzlaff, W. G. & Co.
WASHBURN—Ungrodt, B.

WYOMING.

BUFFALO—Astell, Geo. T.

Corrugated Arches

(See Awnings, Corrugated Iron & Steel)

Corrugated Elbows

(See also Stove Pipe & Elbow Manufacturers)
Corrugated Elbow Co., 114 E Liberty, Cincinnati, O.

EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)

Lamb & Ritchie, Cambridgeport, Mass.

MILWAUKEE CORRUGATING CO.
Milwaukee, Wis. (See adv. index & branch offices, end of book)

New England Steel Roofing Co., Worcester, Mass.

Corrugated Iron & Steel

(See Iron & Steel, Corrugated Manufacturers)

Corundum Mfrs.

(See Emery & Corundum Manufacturers)

Cots (Army, Etc.)

Gold Medal Camp Furniture Mfg. Co., Racine, Wis.

Hilmebaugh Bros., Jamestown, N. Y.

SUN MFG. CO. (Brown Duck, Wood & Steel Frame), Columbus, O. (See adv. index, end of book)

*Cots (Folding)

SUN MFG. CO., Columbus, O. (See adv. index, end of book)

Cotters (Cellar Box)

Jenckes, E. Mfg. Co., Pawtucket, R. I.
Smith, F. P. & Co., Sharon Hill, Pa.

Cotters (Spring)

American Spiral Spring & Mfg. Co., Pittsburgh, Pa.

Brooks, M. S. & Sons (Brass or Steel Cotters & Flat Spring or Riveted Keys), Chester, Conn.
Cincinnati Screw & Tap Co., Twilight, O.
Cobb & Drew (Steel only), Plymouth, Mass., & Rock Falls, Ill.

Hindley Mfg. Co. ("Columbia," Steel, Brass & Copper Cotters & Flat Steel Spring & Flat Riveted Keys), Valley Falls, R. I.

Hollinger Feuce Co. (Steel), Greenville, O.

Jenckes, E. Mfg. Co. (Iron & Brass Cotters & Flat Spring Keys), Pawtucket, R. I.
National Screw & Tack Co. (Iron & Brass), Cleveland, O.

Pickering, R. S. (Brass & Steel Cotters & Steel Flat Spring & Riveted Keys), Sharon Hill, Pa.

Smith, F. P. & Co. (Steel, Brass & Copper Cotters & Flat Spring & Flat Riveted Keys), Sharon Hill, Pa.

WHITMAN & BARNES MFG. CO.
(Brass, Steel & Copper), Chicago, Ill., & Akron, Ohio (See adv. index & branch offices, end of book)

Wire Goods Co. (Iron & Brass), Worcester, Mass.

Cotton (Calking & Gun)

Estes Mills (Inc.), Fall River, Mass.

Cotton Compresses

Bierce, Wm. W. (Ltd.) ("Bierce 20th Century" Hydraulic), Hennen bldg., New Orleans, La.

Dickson Car Wheel Co., Houston, Tex.

Pusey & Jones Co., Wilmington, Del.

Reading Iron Co., Reading, Pa.

Webb Press Co., Minden, La.

Cotton Duck & Canvas

Anchor Duck Mills (Wide Duck), Rome, Ga.

Ashland Mfg. Co., Dickeyville, Md.

Baker, Carver & Morrell, 75 Front, New York

Boston Duck Co., Bondsville, Mass.

Boyle, John & Co., 112 Duane, New York

CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book)

Consolidated Cotton Duck Co. (Duck for Belting, Hose, Sails, etc.; also Awning Stripes & Canvas for Wagon Covers, Tarpaulins, etc.), Continental Trust bldg., Baltimore, Md.

Dallas Cotton Mills, Dallas, Tex.

De Grauw, Aymar & Co., 34 South, New York

Dickey, W. J., & Sons, Oella, Md.

Falls Co. (Ticks, Awnings, Ducks, etc.), Norwich, Conn.

Fitchburg Duck Mills (Belting & Hose Duck), Fitchburg, Mass.

Gary, J. S. & Sons (Awning Strips, etc.), Alherton, Md.

Hoffman-Corr Mfg. Co., 55 White, New York

Hogansville Mfg. Co., Hogansville, Ga.

lane, J. H. & Co., 110 Worth, New York

Lawrence Duck Co., Lawrence, Mass.

Lowell Weaving Co. (Fine Sail Cloth Ducks), Lowell, Mass.

Princeton Mfg. Co., Athens, Ga.

Savage Mfg. Co., Savage, Md.

Shetucket Co., Norwich, Conn.

Thorndike Co. (Awning Stripes, etc.), Thorndike, Mass.

Turner, J. Spencer Co. (Rep. U. S. Cotton Duck Corp.), 86 Worth, New York

Upson-Watson Co. (Wholesale), Cleveland, O.

WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Warren Mfg. Co., Warren, Md.

Wellington, Sears & Co. (Ducks for Belting, Hose, Sails, Harvesters, etc.; also Awning Stripes, Canvas for Wagon Tops, etc., & Bunting), 202 Devonshire, Boston, Mass., & 66 Worth, New York

Williams Duck Mills, Moodus, Conn.

Cotton Gins

(See Cotton Ginning Machinery)

Cotton Softeners

(See Textile Machinery, Supplies, Etc.)

*Counter Balance Stairs (New, Only One in World)

HANKE IRON & WIRE WORKS, 1234 Fillmore, Chicago, Ill. (See adv. index, end of book)

Counterbores

American Die & Tool Co., Reading, Pa.

CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)

Clough, R. M. (for Round Head Cap Screws, etc.), Tolland, Conn.

MORSE TWIST DRILL & MACHINE Co. (Solid, Adjustable & Interchangeable Blades & Guides), New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National," Solid), Detroit, Mich.

Reading Machine & Tool Co. (Adjustable & Facing Bars), Reading, Pa.

Slocumb, J. T. Co., Providence, R. I.

STARRETT, L. S. CO., Athol, Mass. (See adv. index, end of book)

Waltham Watch Tool Co., Springfield, Mass.

*Counter Railings

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)

Counters (Marble Top)

Bishop & Babcock Co., 49th & Hamilton av., Cleveland, O.

Counters (Pole)

Benton, Mfg. Co., 5 Bethune, New York

International Register Co., 124 W Jackson bldg., Chicago, Ill.

New York Standard Watch Co., Jersey City, N. J.

Schaeffer & Budenberg Mfg. Co., Brooklyn, N. Y.

Counters (Revolution)

(See Indicators, Speed)

*Counters (Wood, Metal & Marble)

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)

Countershafts

Almond, T. R. Mfg. Co. ("Almond" Right Angle Quarter Turn), Ashburnham, Mass.

Baird Machine Co., Oakville, Conn.

Rardons & Oliver (Double Friction), 1133 W 9th, Cleveland, O.

Rates Machine Co., Joliet, Ill.

Brown & Sharpe Mfg. Co., Providence, R. I.

Buffalo Forge Co., Buffalo, N. Y.

Builders' Iron Foundry, Providence, R. I.

Challenge Machine Co., 5116 Springfield av., Philadelphia, Pa.

Clizbe Bros. Mfg. Co., Plymouth, Ind.

Cresson, Geo. V., Co., Allegheny av W. of 17th, Phila., Pa.

Diamond Machine Co., Providence, R. I.

Dodge Mfg. Co., Mishawaka, Ind.

Elgin Tool Works ("Elgin" for Precision Tools), Elgin, Ill.

Frick Co., Waynesboro, Pa.

Fulton Machine Co. (Self-Oiling), Canal Fulton, O.

Garvin Machine Co., 137 Varick, New York

Goodell-Pratt Co., Greenfield, Mass.

Hickok, W. O. Mfg. Co., Harrisburg, Pa.

Ideal Machine Works ("Ideal," Operated by Gravity), 255 39th, Brooklyn, N. Y.

Lane Mfg. Co., Montpelier, Vt.

Lodge & Shipley Machine Tool Co., 3055 Colebrook av., Cincinnati, O.

Manning, Maxwell & Moore, 85, 87 & 89 Liberty, New York

Moseley Lathe Co. ("Moseley"), Elgin, Ill.

Mossberg Wrench Co. ("Sim-Pull"), Central Falls, R. I.

National Machine Tool Co., 208 Lawrence, Cincinnati, O.

Oesterlein Machine Co. (Friction Clutch), 2850 Spring Grove av., Cincinnati, O.

Owen Machine Tool Co., Springfield, O.

Quint, A. D., Hartford, Conn.

Reeves Pulley Co., Columbus, Ind.

Rotary File & Machine Co. ("S. & S."), 589 Kent av., Brooklyn, N. Y.

Smith Countershaft Co. (One Belt Reversing for Machine Tools), 141 Milk, Boston, Mass.

Speed Changing Pulley Co. (Variable Speed), Anderson, Ind.

Stearns, E. C. & Co. ("Clarks," "Wheelers"), Syracuse, N. Y.

Sterling Emery Wheel Mfg. Co., Tiffin, O.

Sturtevant, B. F. Co. (For Fans), Hyde Park, Mass.

Variable Speed Clutch Co. (Variable Speed), Milwaukee, Wis.

Waltham Watch Tool Co., Springfield, Mass.

Warner & Swasey Co. (Friction), 5809 Carnegie, S. E., Cleveland, O.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Wilmarth & Morman Co. (Wilmarth Friction), Grand Rapids, Mich.

YOUNG MACHINE & TOOL CO., 211 Center, New York & Worcester, Mass. (See adv. index, end of book)

Countershafts (Variable Speed)

EVANS FRICTION CONE CO., 1288 Cattleo, Newton Center, Mass. (See adv. index, end of book)

Holmes, E. & B. Machinery Co., Buffalo, N. Y.

Owen Machine Tool Co., Springfield, O.

PATTERSON, GOTTFRIED & HUNTER, (Ltd.), 211 Center, New York

Speed Changing Pulley Co., Anderson, Ind.

Variable Speed Clutch Co., Milwaukee, Wis.

Countersinks

American Die & Tool Co., Reading, Pa.

Billings & Spencer (Drop Forged), Hartford, Conn.

Braunsdorf-Mueller Co., Elizabeth, N. J.

Buck Bros. (Flat, Rose & Snail), Millbury, Mass.

Buck, Chas., Millbury, Mass.

Butterfield & Co., Derby Line, Vt.

Cincinnati Tool Co. ("Hargrave's Adjustable"), Cincinnati, O.

Waverly av & C. L. & N. R'y, Cincinnati, O.

CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)

Deuse, J. S. (Wood & Iron), Chester, Conn.

Goodell-Pratt Co., Greenfield, Mass.

Humphreysville Mfg. Co., Seymour, Conn.

Hunter, J. B., & Co. ("Henry" for Wood & Metal), 60 Summer, Boston, Mass.

Jennings, C. E. & Co., 42 Murray, New York; Works, Chester, Conn.

Johnson, Wm., (Hedenberg Works), Newark, N. J.

Mayhew, H. H. Co., Shelburne Falls, Mass.

MORSE TWIST DRILL & MACHINE Co. (Bit Stock & Combined Drills & Countersinks), New Bedford, Mass. (See adv. index, end of book)

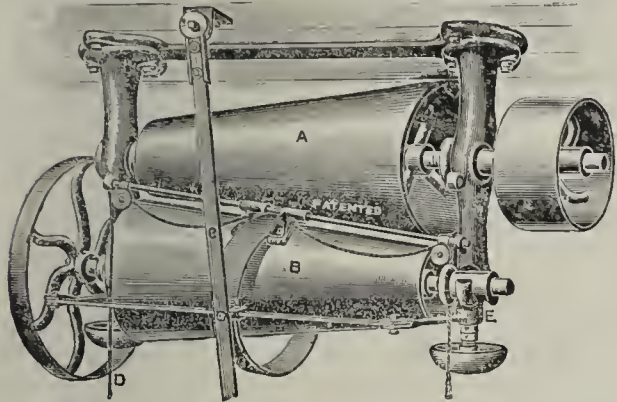
National Twist Drill & Tool Co. ("National" Bit Stock), Detroit, Mich.

Polk, A. J. & Son (For Drilling Machines, etc.), Millersburg, Pa.

Smith, Otis A. (For Wood Workers), Rockfall, Conn.

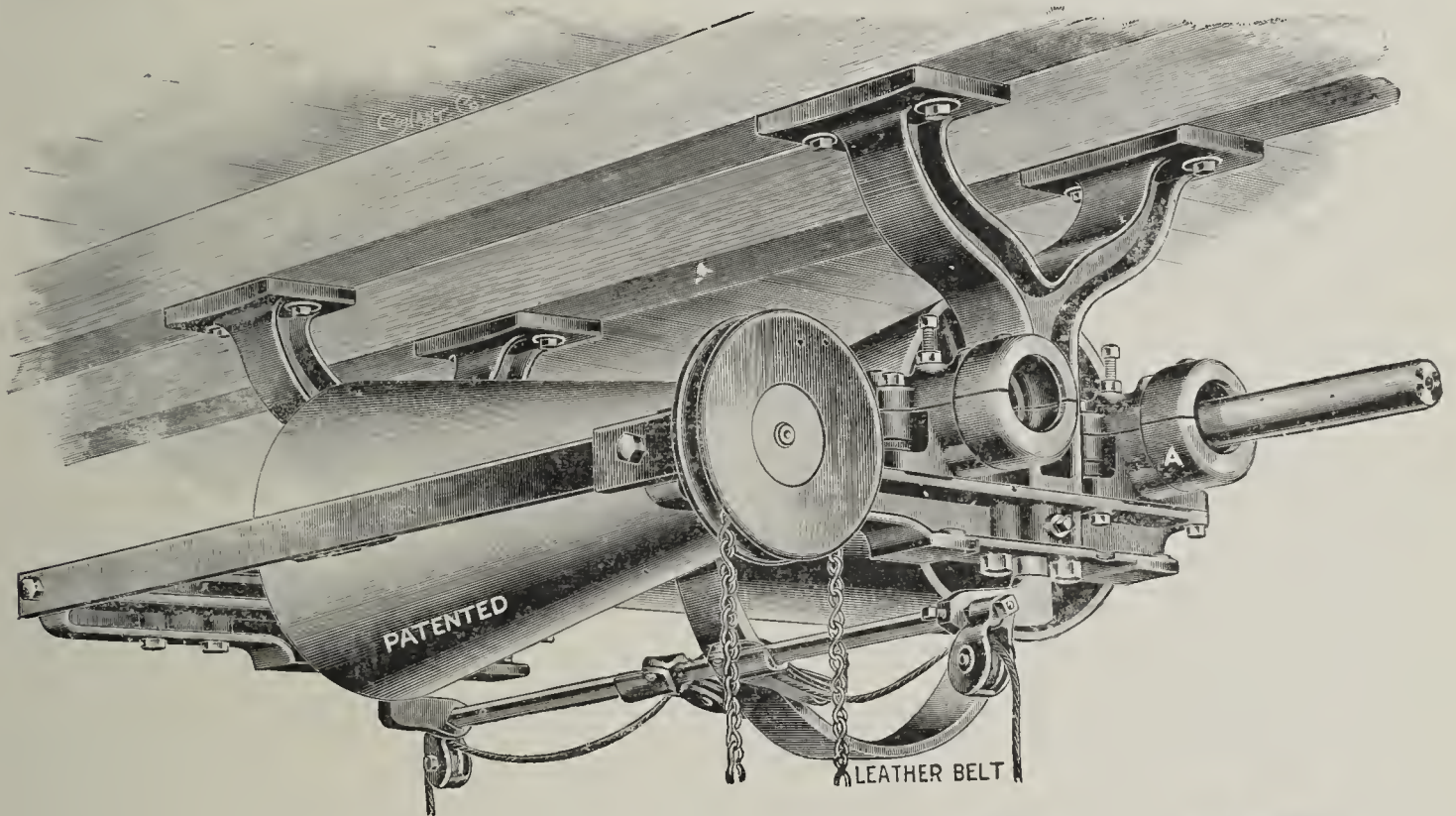
Snell Mfg. Co., Fiskdale, Mass.

VARIABLE SPEED COUNTERSHAFT



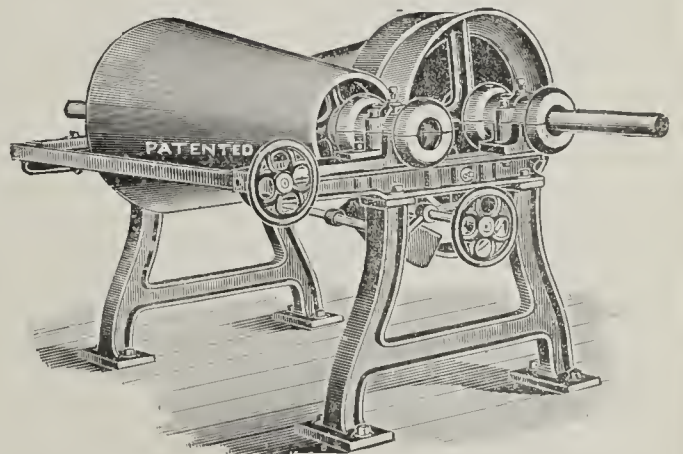
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==== **Hendricks'** =====
Commercial Register

Standard Tool Co., Central av. & P. Ry., Cleveland, O.
 Stanley Rule & Bevel Co., New Britain, Conn., & 107 Chambers, New York
STARRETT, L. S. CO. (Double Lip, etc.), Athol, Mass. (See adv. index, end of book)
 Swan, Jas., Co., Seymour, Conn.
 Syracuse Twist Drill Co., Syracuse, N. Y.
 Tuck Mfg. Co. (Rose, Flat), Brockton, Mass.
 Vaughn & Bushnell Mfg. Co., 877 W Carroll av., Chicago, Ill.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Countersinks & Center Drills (Combined)

CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)
 Detroit Twist Drill Co., Detroit, Mich.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co., Detroit, Mich.
 Slocumb, J. T. Co., Providence, R. I.
 Standard Tool Co., Cleveland, O.
WHITMAN & BARNES MFG CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Couplers (Car)

American Steel Foundries (Open Hearth Steel), Commercial Nat'l Bank bldg, Chicago, Ill., & 30 Church, New York
 Automatic Car Coupler Co. ("Norwood-Bonney"), Los Angeles, Cal.
 Automatic Steam & Air Coupler Co., Albany, N. Y.
 Buckeye Steel Castings Co. ("Buckeye" & "Major"), Columbus, O.
 Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Philadelphia, Pa.
 Consolidated Car Heating Co. ("Sewell," etc.), 42 B'way, New York; Works: Albany, N. Y.
 Dayton Malleable Iron Co., Dayton, O.
 Erie Car Works, Erie, Pa.
 Forsyth Automatic Air & Steam Coupler Co., The Rookery, Chicago, Ill.
 Gould Coupler Co. ("Gould") 345 5th av, New York
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Latrobe Steel & Coupler Co. ("Latrobe," "Chicago," All Steel), Old Colony bldg, Chicago, Ill.
 McConway & Torley Co. ("Pitt," "Kelso" & "Janney," Made from Open Hearth Cast Steel), 48th & A. V. R'y, Pittsburg, Pa.
 McGuire-Cummings Mfg. Co., 122 N Sangamon, Chicago, Ill.
 Michigan Malleable Iron Co., Detroit, Mich.
 Monarch Steel Casting Co. ("Monarch") Solid "Detroit" Couplers & Coupler Attachments, Detroit, Mich.
 National Car Coupler Co. ("Hinson," "National" Freight, Passenger & Industrial Cars), Monadnock bldg., Chicago, Ill. Works, Attica, Ind.
 National Malleable Castings Co. ("Tower," "Climax"), Cleveland, O.
 National Steel Casting Co. (Open Hearth Steel), Montpelier, Ind.
 New York Car Wheel Co., Buffalo, N. Y., & 11 B'way, New York
 Ohio Brass Co. ("Tomlinson"), Mansfield, O.
 Pennsylvania Malleable Co., Pittsburg, Pa.
 Pratt & Letchworth Co. ("Pooley"), Buffalo, N. Y.
 Pittsburg Steel Foundry, Pittsburg, Pa. Works, Glassport, Pa.
 Railroad Supply Co., Bedford bldg, Chicago, Ill., & 30 Church, New York
RUSSEL WHEEL & FOUNDRY CO. (Cast Iron), Detroit, Mich. (See adv. index, end of book)
 Scullin-Gallagher Iron & Steel Co. (Open Hearth Steel), St. Louis, Mo.
 Simplex Railway Appliance Co. ("Simplex"), Commercial Bank bldg, Chicago, Ill.
 St. Louis Car Co. ("Hess"), St. Louis, Mo.
 Standard Coupler Co. ("Latrobe," "Chicago," "Melrose"), 2 Rector, New York. Works, Bridgeport, Conn.
 Sterling Foundry Co. ("Sterling Automatic"), Pittsburg, Pa.
 Tennessee Coal, Iron & R. R. Co. (Basic Open Hearth Steel), Birmingham, Ala.

Trojan Car Coupler Co., Troy, N. Y.
 Troy Malleable Iron Co. ("M. C. B."), Troy, N. Y.
 Van Dorn, W. T. Co., 1076 S Paulina, Chicago, Ill.
 Wallace Supply Co. ("S. & W."), 23 S Jefferson, Chicago, Ill.
 Washburn Steel Casting & Coupler Co., Minneapolis, Minn.
 Wells, F. L. ("The California"), 116 S Clinton, Chicago, Ill.
 Westinghouse Air & Steam Coupler Co., 192 N B'way, St. Louis, Mo.
 Whiteley Malleable Castings Co. ("The Washburn," "Hein," "St. Louis," "Williams" & "Foster"), Muncie, Ind.
 Wilmington Malleable Iron Co., Wilmington, Del.

*Couplers (Dog)

NIAGARA FALLS METAL STAMPING WORKS, Niagara Falls, N. Y. (See adv. index, end of book)

Couplers (Shaft & Pole)

Bradley, C. C. & Son, Syracuse, N. Y.
 Catham, Chas. (Open Head), Beloit, Wis.
 Eccles Richmond Co. (Ball Bearing), Auburn, N. Y.
 Empire State Shaft Coupling Co., Utica, N. Y.
 Evans, Coppins & Starks Co. (Shaft) Princeton.
 Fernald Mfg. Co., North East, Pa.
 Jerseyville Novelty Works ("McNair's"), Jerseyville, Ill.
 Morrell, Osgood, Ameshury, Mass.
 Mulhoiland Co., Dunkirk, N. Y.
 Queen City Forging Co., Cincinnati, O.

Couplings (Air Hose)

(See Pneumatic Hose Couplings)

*Couplings (Angle)

BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)

Couplings (Bell Cord)

(See also Bell Cords & Couplers)

Creamer, W. G., & Co., 96 John, New York
 Handlan-Buck Mfg. Co. (The Shelby), 212 N 3d, St. Louis, Mo.
 Smith & Wallace (Register Cord for Street Railways), Woburn, Mass.
 Sterling-Meaker Co. ("Triton"), Newark, N. J.
 Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Couplings (Car Heater)

National Tube Co., Pittsburg, Pa.

Couplings (Circulating)

National Tube Co., Pittsburg, Pa.

Couplings (Boiler & Water Back)

Burlington Brass Works, Burlington, Wis.
 Campbell, J. B. Brass Works, Erie, Pa.
 Clum & Atkinson, Rochester, N. Y.
 Elkhart Brass Mfg. Co. (Brass), Elkhart, Ind.
 Exeter Brass Works, Exeter, N. H.
 Grabler Mfg. Co. (With Union), Cleveland, O.
 Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
 Lawler Regulator Co. ("Lawler's" Protector), 473 B'way, New York
 Mueller, H., Mfg. Co., Decatur, Ill.
 National Tube Co. ("Kewanee Iron & Brass"), Pittsburg, Pa.
 Nunn Brass Works (Inc.), Rochester, N. Y.
 Spence Mfg. Co., 279 Park, Milwaukee, Wis.
 Trenton Brass & Machine Co. ("Trenton," "Paragon"), Trenton, N. J.

Couplings (Clamp)

American Tool & Machine Co., 109 Beach, Boston, Mass.
BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)
 Cresson, Geo. V. Co. (Internal, etc.), 18th & Allegheny av, Phila., Pa.
 Dodge Mfg. Co. ("The Grim Death"), Milwaukee, Ind.
 Klein, Chas. C., 2850 N Marshall, Phila., Pa.
 Valley Iron Works, Williamsport, Pa.

Couplings (Closet)

Hydraulic Specialty Co. ("Universal"), 427 Walnut, Philadelphia, Pa.
 Illinois Malleable Iron Co., 515 Diversey boul., Chicago, Ill.

Ohio Brass & Iron Mfg. Co., Cleveland, O.
 Park & McKay Co., Detroit, Mich.
 Republic Rubber Co., Youngstown, O.
 Salem Brass & Iron Mfg. Co. (Rubber), Salem, N. J.

Couplings (Clutch)

BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)
BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)
 Buhl Malleable Co., Wight & Adair, Detroit, Mich.
 Chain Belt Co. (Spiral Square, etc.), Milwaukee, Wis.
 Cresson, Geo. V., Co., Allegheny av W. of 17th, Phila., Pa.
 Dodge Mfg. Co., Mishawaka, Ind.
 Falls Rivet & Machine Co., Cuyahoga Falls, Ohio
 Frick Co., Waynesboro, Pa.
 Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Medart Patent Pulley Co., 3500 De Kalb av, St. Louis, Mo.
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
 Standard Gauge Steel Co., Beaver Falls, Pa.

Couplings (Compression)

BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.
 Chain Belt Co., ("C. B. Co.") Milwaukee, Wis.
 Davis, W. P. Machine Co. (For Line Shafting), Rochester, N. Y.
 Dodge Mfg. Co., Mishawaka, Ind.
 Erie Clutch & Pulley Co., Erie, Pa.
 Forster Pulley Works ("Estes" Shaft), Cuba, N. Y.
 Garland, M. Co., Bay City, Mich.
 Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Jones & Laughlin Steel Co. ("Collins"), Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHINE CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Nicholson, W. H. & Co. (Shaft), Wilkes-Barre, Pa.
PATTERSON, GOTTFRIED & HUNTER, Ltd., 211 Center, New York
 Plamondon, A. Mfg. Co., 57 S Clinton, Chicago, Ill.
 Poole Engineering & Machine Co., Baltimore, Md.
 Shaw Coupling Co., Syracuse, N. Y.
STANDARD GAUGE STEEL CO., Beaver Falls, Pa. (See adv. index, end of book)
 Stuart, R. J. & T. H. (Wedge), New Hamburg, N. Y.
 Thomas-Fordyce Mfg. Co., Little Rock, Ark.
 Valley Iron Works, Williamsport, Pa.
 Woods's, T. B. Sons Co., Chambersburg, Pa.

Couplings (Conduit)

American Circular Loom Co., Chelsea, Mass.
 Bonnell, W. A., 132 Church, New York
 Burns, Jas. F., 47 N Hutchinson, Phila., Pa.
 Chase-Shawmut Co. ("Chase" Nipples & Flexible Conduit Couplings), Newburyport, Mass.
 Enameled Metals Co., Etta, Pa.
 Fairmount Elec. Mfg. Co. ("Rendicks"), 714 N 24th, Phila., Pa.
 Grabier Mfg. Co. (Fixture Studs), Cleveland, Ohio
 Gwilliam Supply Co., 1339 Ridge av, Phila., Pa.
 National Metal Molding Co., Pittsburg, Pa.
 Safety Armorite Conduit Co., Pittsburg, Pa.
 Sprague Electric Co., 527 W 34th, New York
 Thomas & Betts Co., 299 B'way, New York
 Wallace Supply Co. ("Rendon" Steel Spring Lath), 23 S Jefferson, Chicago, Ill.
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, New York

Couplings (Conduit Rod)

(See Rods, Conduit Wiring & Cleaning)

Couplings (Cut-Off)

ALLIS-CHALMERS CO. ("A. C." Friction Clutch), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Nuttall

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Brightman Mfg. Co. (Friction Clutch), Shelby, Ohio
BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)
 Carruthers-Fithlan Clutch Co., Grove City, Pa.
 Cowanesque Valley Iron Works ("Riepell's" Friction Clutch), Cowanesque, Pa.
 Cresson, Geo. V., Co., Allegheny av W. of 17th, Dodge Mfg. Co., Mishawaka, Ind. Phila., Pa.
 Eastern Machinery Co., New Haven, Conn.
 Erie Clutch & Pulley Co., Erie, Pa.
 Falls Rivet & Machine Co., Cuyahoga Falls, O., & 208 Fulton, New York
 Friction Pulley & Machine Works, Sandy Hill, N. Y.
 Hess-Snyder Co., Massillon, O.
 Jones, W. A., Foundry & Machine Co., 143 North av., Chicago, Ill.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Minster Machine Co., Minster, O.
 Moore & White Co., 15th & Lehigh av., Philadelphia, Pa.
PATTERSON, GOTTFRIED & HUNTER, (Ltd.), 211 Center, New York
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Couplings (Drill Rod)

National Tube Co., Pittsburg, Pa.

Couplings (Expansion)

Elkhart Brass Mfg. Co. (Expansion Ring), Elkhart, Ind.
 Ohio Pump & Brass Co. (Expansion Rod), 18th & Oak, Columbus, O.

Couplings (Flange)

American Tool & Machine Co., 109 Beach, Boston, Mass.
BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
 Chain Belt Co. (Flanged Face), Milwaukee, Wis.
 Cumberland Steel Co., Cumberland, Md.
 Dodge Mfg. Co., Mishawaka, Ind.
 Erie Clutch & Pulley Co., Erie, Pa.
 Huntsville Foundry & Machine Co., Huntsville, Ala.
 Jefferson Union Co., Lexington, Mass.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Jones & Laughlin Steel Co., Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Nicholson, W. H. & Co. (Compression), Wilkes-Barre, Pa.
 Pittsburg Steel Shafting Co., Park bldg., Pittsburg, Pa. Works, Rankin, Pa.
 Plamondon, A. Mfg. Co., 57 S. Clinton, Chicago, Ill.
 Poole Engineering & Machine Co., Baltimore, Md.
 Valley Iron Works, Williamsport, Pa.

Couplings (Flexible)

Boston Gear Works (Crucible Steel), Norfolk Downs, Mass.
BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)
 Cresson, Geo. V., Co., Allegheny av, W of 17th, Phila., Pa.
 Dodge Mfg. Co., Mishawaka, Ind.
ELECTRIC CONTROLLER & MFG. CO., Cleveland, O. (See adv. index & branch offices, end of book)

*Couplings (Flexible Cushion)

NUTTALL, R. D. CO. ("Nuttall"), Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

Couplings (Friction Clutch)

Blakeslee Mfg. Co. (Automatic), Birmingham, Ala.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Brightman Mfg. Co. (Cut-off), Shelby, O.

BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
 Cowanesque Valley Iron Works ("Riepell's" Cut-off), Cowanesque, Pa.
 Cresson, Geo. V., Co., Allegheny av W. of 17th, Phila., Pa.
 Dodge Mfg. Co., Mishawaka, Ind.
 Eastern Machinery Co., New Haven, Conn.
 Erie Clutch & Pulley Co., Erie, Pa.
 Falls Rivet & Machine Co., Cuyahoga Falls, Ohio
 Great Western Mfg. Co., Leavenworth, Kan.
 Hill Clutch Co., ft. 58th, N. W., Cleveland, O.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Klein, Chas. C., 2850 N Marshall, Phila., Pa.
 Medart Patent Pulley Co., St. Louis, Mo.
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Oesterlein Machine Co., 2850 Spring Grove av., Cincinnati, O.
PATTERSON, GOTTFRIED & HUNTER, (Ltd.), 211 Center, New York
 Plamondon, A. Mfg. Co., 57 S Clinton, Chicago, Ill.
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
 Poole Engineering & Machine Co., Baltimore, Md.
 Stephens-Adamson Mfg. Co., Aurora, Ill.
 Woods's, T. B. Sons Co., Chambersburg, Pa.

Couplings (Hose)

Acme Brass Works, 147 Baxter, New York
 Allen Fire Department Supply Co., Providence, R. I.
 Allen, W. D. Mfg. Co. (Plain & Automatic), 151 Lake, Chicago, Ill.
 American Foundry & Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Bastian, C. L. Mfg. Co. (Fire Hose), 78 Illinois, Chicago, Ill.
Boston Coupling Co. (Fire Hose), 156 Pearl, Boston, Mass.

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Buckley-Hart Mfg. Co., 527 Franklin, Detroit, Mich.
Callahan, C. Co., Boston, Mass.
Cassady-Fairbank Mfg. Co. ("Samson"), 6106 La Salle, Chicago, Ill.

CHICAGO CAR HEATING CO., Railway Exchange bldg., Chicago, Ill., & 170 B'way, New York. (See adv. index, end of book)

Clark, W. J. Co. ("Quick-as-Wink"), Salem, O.
Clay, Jno. H. ("Clay-Jones") Fire Hose, 1320 Ridge av., Phila., Pa.

Columbus Pneumatic Tool Co., Columbus, O.
Combination Ladder Co. ("McIntyre"), Providence, R. I.

Compressed Air Machinery Co. ("Reardon"), Jessie & Ecker, San Francisco, Cal.
Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Eastwood Wire Mfg. Co., Belleville, N. J.
Edison Mfg. Co., 257 Atlantic av., Boston, Mass.

Elkhart Brass Mfg. Co. (Also Suction Hose), Elkhart, Ind.

Fabric Fire Hose Co., Duane & Church, New York

Findlay, A. W., Co. ("Time Saving"), 23d & Market, Phila., Pa.

Gunnell Machine Co., Manitowoc, Wis.
Handlan-Buck Mfg. Co. ("Lightning," for Compound Air), 212 N 3d, St. Louis, Mo.

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

James Mfg. Co. ("Klingtite"), Denver, Col.
Libby Valve & Packing Co., Niantic, Conn.

Lupper, Wendel (Brewers), 216 Locust, St. Louis, Mo.

Nelson & Morrison Mfg. Co. ("Snap"), Peoria, Ill.

Neumeyer, H. F. ("Never Slip"), Macungie, Pa.

Pioneer Brass Works ("Rice" Expansion Ring), Indianapolis, Ind.

Quincy-Manchester-Sargent Co., Plainfield, N. J.

Sherman, H. R. Mfg. Co., Battle Creek, Mich.

Standard Brass & Iron Works (Brewers, etc., also for Steam Hose), Milwaukee, Wis.

Universal Coupler Co., 955 Matlin, Cincinnati, Ohio

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Waterbury Brass Goods Corporation (Wrought Brass), Waterbury, Conn.

Waterbury Rubber Mfg. Co., 75 Warren, New York

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wilmington Brass Co. ("Lally"), Wilmington, Del.

Woodhouse Mfg. Co. (Fire Hose), 50 W B'way, New York

Couplings (Hydraulic Pipe Line)

Caskey Valve Co., 99 John, New York

*Couplings (Insulated)

BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)

NUTTALL, R. D. CO., Fayette & Garlison pl, Pittsburg, Pa. (See adv. index, end of book)

Couplings (Lead Flange)

Mueller, H. Mfg. Co., Decatur, Ill.
Ohio Pump & Brass Co. (Also Iron Flange), 18th & Oak, Columbus, O.

Couplings (Lead Pipe)

Anderson Coupling Co. ("Anderson"), Portland, Fostoria Novelty Co., Fostoria, O.
Kidder, D. & Son, North Groton, N. H.

Couplings (Pipe)

Belknap Mfg. Co., Bridgeport, Conn.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Custer Coupler Co., Bradford, Pa. (book)
Cuyler & Mobler, 611 William, Baltimore, Md.
Dart, E. M. Mfg. Co., Providence, R. I.
Dayton Pipe Coupling Co. ("Collerleak," All Steel), Dayton, O.

Dresser, S. R. Mfg. Co. ("Dresser"), Bradford, Pa.

Elkhart Brass Mfg. Co. (Steam & Water, Brass), Elkhart, Ind.

Grabier Mfg. Co. (Wrought Iron), Cleveland, O.

Illinois Malleable Iron Co., 515 Diversey boult, Chicago, Ill.

General Fire Extinguisher Co., Providence, R. I.

Kelly & Jones Co. ("Kelly") 135 Water, Pittsburg, Pa.

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Modern Iron Works (For Lead or Iron Pipe), Quincy, Ill.

Mueller, H. Mfg. Co., Decatur, Ill.

New Haven Novelty Machine Co., New Haven, Conn.

Star Coupler Co. ("Star" Solderless), 612 S. 6th, St. Louis, Mo.

Strater, Herman & Sons, 74 Sudbury, Boston, Mass.

Vulcan Iron Works, Seattle, Wash.

Couplings (Pneumatic Hose)

(See Pneumatic Hose Couplings)

Couplings (Railroad Emergency)

Quincy, Manchester, Sargent Co. ("Gillman-Brown"), Plainfield, N. J.

Couplings (Reducing Punch)

Lovejoy Tool Works ("Lovejoy"), 86 E Ohio, Chicago, Ill.

Couplings (Shaft)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Almond, T. R. Mfg. Co. (Angular or Quarter Turn Countershaft), Ashburnham, Mass.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barnard & Leas Mfg. Co., Moline, Ill.

Blakeslee Mfg. Co., Birmingham, Ala.

BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N. J. (See adv. index, end of book)

Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Chickasaw Iron Works, Memphis, Tenn.

Cresson, Geo. V., Co., Allegheny av W. of 17th, Phila., Pa.

Davis, W. P. Machine Co., Rochester, N. Y.

Dodge Mfg. Co., Mishawaka, Ind.

Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kan.

Forster Pulley Works ("Estes" Compression), Cuba, N. Y.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Franklin Machine Co., Providence, R. I.

Golden's Foundry & Machine Co., Columbus, Ga.

Great Western Mfg. Co., Leavenworth, Kan.

Holyoke Machine Co., Holyoke, Mass.

Hunter, James Machine Co., North Adams, Mass., & 70 Kilby, Boston, Mass.

Huntsville Foundry & Machine Works (Nolan & Jones, Props.), (Compression, Flange, Clutch, etc.), Huntsville, Ala.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Lane Mfg. Co., Montpelier, Vt.

Lane & Bodley Co., Cincinnati, O.

Lombard Iron Works & Supply Co., Augusta, Ga.

Medart Patent Pulley Co., 3500 De Kalb av, St. Louis, Mo.

MINNEAPOLIS STEEL & MACHINE CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Nordyke & Marmon Co., Indianapolis, Ind.

PATTERSON, GOTTFRIED & HUNTER, (Ltd.), 211 Center, New York. (See adv. index & branch offices, end of book)

Plamondon, A. Mfg. Co., 57 S Clinton, Chicago, Ill.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Poole Eng'g & Machine Co., Baltimore, Md.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

STANDARD GAUGE STEEL CO., Beaver Falls, Pa. (See adv. index, end of book)

Stuart, B. J., New Hamburg, N. Y. (book)

Thomas Coupling Co., Warren, Pa.

Thomas Mfg. Co., Little Rock, Ark.

Union Forging Co. (Straight Ear), Union, N.Y.

Witte Iron Works Co., Kansas City, Mo.

Couplings (Sucker Rod)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Rumsey & Co. (Ltd.), (Wrought Forged), Seneca Falls, N. Y.

*Couplings (Swivel)

LUNKENHEIMER CO., General Offices & Works: Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Couplings (Water Back)

(See Couplings, Boiler & Water Back)

*Covering or Casing (Steam Pipe)

WYCKOFF, A. & SON CO. ("Wyckoff" Waterproof), Elmira, N. Y. (See adv. index, end of book)

Covers (Battery Jar)

American Hard Rubber Co., 11 Mercer, New York

Auburn Button Works, Auburn, N. Y.

Consumers Rubber Co. ("Euclid"), Cleveland, Ohio

Dickinson Mfg. Co., Springfield, Mass.

Duranold Mfg. Co., 28 Prospect, Newark, N. J.

Electrode Mfg. Co., 127 N 10th, Brooklyn, N. Y.

Stokes, Jos. Rubber Co., Trenton N. J.

Covers (Catch Basin)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Carpenter & Browning ("X. L. C. R." Cement), 40th av & Taylor, Chicago, Ill.

MACKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)

Madison Foundry Co. ("Acme"), 935 Addison rd, N E, Cleveland, O.

Nazareth Foundry & Machine Co., Nazareth, Pa.

Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Sturtevant, B. F. Co., Hyde Park, Mass.

Vancamp Foundry & Machine Works, Decatur, Ind.

Vulcan Iron Works, 59 Milwaukee av, Chicago, Ill.

Walter, W. B. & Co., Marquette bldg., Chicago, Ill.

Covers (Fuse Block)

Pettingell, Andrews Co. ("O. K."), Boston, Mass.

Covers (Nut)

Erie Stamping & Mfg. Co. (Pressed Steel), Erie, Pa.

Glauber Brass Mfg. Co. (Nickel Plated), Cleveland, O.

Covers (Pulley)

Hamilton, E. A. & Co. ("Cantslip"), Grand Rapids, Mich.

Crabs (Hoisting)

AMERICAN HOIST & DERRICK CO. (Single & Double Drum), St. Paul, Minn. (See adv. index & branch offices, end of book)

BROWN HOISTING MACHINERY CO., 4403 St. Clair, N E, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)

Byers, John F. Machine Co., Ravenna, O.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO. (Windmill, etc.), Wabash av & Eldridge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Helmick Foundry & Machine Co., Fairmont, W. Va.

McKeown, H. J., 248 Butler, Cincinnati, O.

Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
 Round, D. & Son, 7625 B'way S E, Cleveland, Ohio
 Urle-Snyder Iron Works Co., Kansas City, Mo.
 Yale & Towne Mfg. Co., 9 Murray, New York

Crabs (Pole)

Ronnd, D. & Sou, Cleveland, O.
 Woodruff, Walter W. & Sons Co., Mount Carmel, Conn.

Crackers (Nut)

(See Nut Crackers & Picks)

Cradles (Grain)

Brown, Hinman & Huntingdon Co., Memphis, Tenn.
 Iowa Farming Tool Co., Fort Madison, Ia.
 McGulre, B. C. J., Wilmore, Pa.
 Spear, W. D., Conewango, N. Y.

Crane Controllers (Electric)

American Electric Fuse Co. ("Allen-Bradley"), Muskegon, Mich.
 Automatic Switch Co., 131 Liberty, New York
CLEVELAND CRANE & ENGINEERING CO., Cleveland, O. (See adv. index, end of book)
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ELECTRIC CONTROLLER & MFG. CO. (Reversing, for Electric Cranes, Hoists, Co., Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Crane Runways

Yale & Towne Mfg. Co., 9 Murray, New York

Cranes

(For Various Kinds of Cranes See Sub-classifications following)

Alliance Machine Co., Alliance, Ohio.
 American Machine & Mfg. Co., Cleveland, O.
 Batcheller, Clark & Batcheller, 2140 N 10th, Brooklyn, N. Y.
 Box, Alfred & Co., 813 N Front, Phila., Pa.
BROWN HOISTING MACHINERY CO., 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
 Browning Engineering Co., Cleveland, O.
 Bucyrus Co., South Milwaukee, Wis.
 Calumet Engineering Works, Harvey, Ill.

Case Crane Co., St. Clair & Curtis avs., Columbus, O.
 Chambersburg Eng. Co., Chambersburg, Pa.
 Christiana Machine Co., Christiana, Pa.
CLEVELAND CRANE & ENGINEERING CO., Cleveland O. (See adv. index, end of book)

Currier, Cyrus & Sons, Newark, N. J.
 Curtis & Co. Mfg. Co. (Air), St. Louis, Mo.
DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
 Dodge, J. M. Co. (Locomotive, Stationary & Revolving), Nicetown, Philadelphia, Pa.
FREVERT MACHINERY CO., 18 Dev, New York. (See adv. index, end of book)
G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)
 Gregg Co. (Ltd.), Newburgh, N. Y.
 Harrington, Edw. Son & Co., 17th & Callowhill, Philadelphia, Pa.
 Industrial Works, Bay City, Mich.

Interstate Engineering Co., Bedford, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Lane Mfg. Co. ("Anderson" Rope Driven Traveling), Montpelier, Vt.
 Lewis Foundry & Machine Co. (Hydraulic, Steam & Hand), Coraopolis, Pa.
 Lincoln Iron Works, Rutland, Vt.
 Mackintosh-Hemphill & Co. (Ltd.), ft 12th st. Pittsburgh, Pa.

McMyler Mfg. Co., 1799 Columbus rd, Cleveland, O. Works, Warren, O.
 Manning, Maxwell & Moore ("The Shaw"), 85 Liberty, New York
 Maris Bros., 56th & Gray's av, Phila., Pa.
 Modern Steel Structural Co., Milwaukee, Wis.
 Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Niles-Bement-Pond Co., 111 B'way, New York
NORTHERN ENGINEERING WORKS. ("Northern"), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
 Pawling & Harnischfeger, 38th & National avs, Milwaukee, Wis.

READING CRANE & HOIST WORKS., Reading, Pa. (See adv. index, end of book)
 Ridgway, Craig & Son Co., Coatesville, Pa.
 Scaife Foundry & Machine Co., Pittsburgh, Pa.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Shaw Electric Crane Co., Muskegon, Mich., & 85 Liberty, New York
 Shriver, T. & Co., Harrison, N. J.
 Smith, Whitcomb & Cook Co., Barre, Vt.

SPEIDEL, J. G., Reading, Pa. (See adv. index, end of book)
 United Engineering & Foundry Co., Farmers Bank bldg, Pittsburgh, Pa.
 Vulcan Iron Works (Dock), 5 La Grange, Toledo, O.

Wellman-Seaver-Morgan Co., Cleveland, O.
WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

WILLIAMS, G. H. CO., 1513 Rockefeller bldg, Cleveland, O. (See adv. index, end of book)
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
 Yale & Towne Mfg. Co., 9 Murray, New York

Cranes (Air)

(See Cranes, Pneumatic)

Cranes (Automobile, Portable)

Nicholls, Wm. S., 253 B'way, New York

Cranes (Bridge)

Yale & Towne Mfg. Co. (Hand Power), 9 Murray, New York

Cranes (Cantilever)

BROWN HOISTING MACHINERY CO., 4403 St. Clair, N E, Cleveland, O. (See adv. index & branch offices, end of book)
 Case Crane Co., St. Clair & Curtis avs., Columbus, O.

CLEVELAND CRANE & ENGINEERING CO., Cleveland, O. (See adv. index, end of book)

Interstate Engineering Co., Bedford, O.
 McMyler Mfg. Co., 1799 Columbus rd, Cleveland, O. Works: Warren, O.

NORTHERN ENGINEERING WORKS., 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Wellman-Seaver-Morgan Co., Cleveland, O.
WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

Cranes (Charging & Drawing)

Alliance Machine Co., Alliance, O.
 Calumet Engineering Works, Harvey, Ill.
 Case Crane Co., St. Clair & Curtis avs., Columbus, O.

CLEVELAND CRANE & ENGINEERING CO., Cleveland, O. (See adv. index, end of book)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Pawling & Harnischfeger, Milwaukee, Wis.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

United Engineering & Foundry Co., Farmers Bank bldg, Pittsburgh, Pa.

WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

*Cranes (Charging & Truing)

CLEVELAND CRANE & ENGINEERING CO., Cleveland, O. (See adv. index, end of book)

*Cranes (Concentric Traveling)

CLEVELAND CRANE & ENGINEERING CO., Cleveland, O. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

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*Cranes (Derrick)

CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Cranes (Dock)

BROWN HOISTING MACHINERY CO.,
4403 St. Clair, N E, Cleveland, O. (See
adv. index & branch offices, end of book)
CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end
of book)

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)
McMyler Mfg. Co., 1799 Columbus rd., Cleve-
land, O. Works: Warren, O.
Nicholls, Wm. S. (Portable), 253 B'way, New
York

NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phil-
adelphia, Pa.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

Cranes (Electric Locomotive)

Alliance Machine Co., Alliance, O.
BROWN HOISTING MACHINERY CO.,
4403 St. Clair, N E, Cleveland, O. (See
adv. index & branch offices, end of book)
Browning Engineering Co., Cleveland, O.
CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end
of book)
Industrial Works, Bay City, Mich.
McMyler Mfg. Co., 1799 Columbus rd., Cleve-
land, O. Works: Warren, O.
NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)

Cranes (Electric Traveling)

Alliance Machine Co. (Also Electric Jib), Al-
liance, O.
American Machine & Mfg. Co., Cleveland, O.
Batcheller, Clark & Batcheller, 240 N 10th,
Brooklyn, N. Y.
Box, Alfred & Co., 813 N Front, Phila., Pa.
BROWN HOISTING MACHINERY CO.,
4403 St. Clair, N E, Cleveland, O. (See
adv. index & branch offices, end of book)
Calumet Engineering Works, Harvey, Ill.
Case Crane Co., St. Clair & Curtis avs.,
Columbus, O.
Chambersburg Engineering Co., Chambers-
burg, Pa.

**When writing to firms listed
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Co., Cleveland, O. (See adv. index, end
of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.



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G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)
Gregg Co. (Ltd.), Newburgh, N. Y.
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Johnston & Jennings Co., Cleveland, O.
McMyler Mfg. Co., 1799 Columbus rd., Cleve-
land, O. Works: Warren, O.
Manning, Maxwell & Moore, 85 Liberty, New
York
Maris Bros., 56th & Gray's Ferry rd, Phila., Pa.
Modern Steel Structural Co., Waukesha, Wis.
MORGAN ENGINEERING CO., Al-
liance, O. (See adv. index & branch offices,
end of book)

Niles-Bement-Pond Co., 111 B'way, New York
NORTHERN ENGINEERING WORKS,
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& branch offices, end of book)

Pawling & Harnischfeger, Milwaukee, Wis.
RANSOME CONCRETE MACHINERY
Co., Dunellen, N. J. (See adv. index &
branch offices, end of book)

READING CRANE & HOIST WORKS,
Reading, Pa. (See adv. index, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Philadelphia, Pa.

Shaw Electric Crane Co., Muskegon, Mich., &
85 Liberty, New York
Shepard Electric Crane & Hoist Co. ("Shep-
ard"), Montour Falls, N. Y., & 149 B'way,
New York

Shriver, T. & Co., Harrison, N. J.
Smith, Whitcomb & Cook Co., Barre, Vt.
Stamp, C. E. & Co., Cleveland, O.
Wellman-Seaver-Morgan Co., Cleveland, O.
Whitcomb Bros. (Hand), Barre, Vt.
WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

Cranes (Forge)

Alliance Machine Co., Alliance, O.
American Machine & Mfg. Co. (Steam), Cleve-
land, O.
Case Crane Co., St. Clair & Curtis avs.,
Columbus, O.
CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end
of book)
MORGAN ENGINEERING CO., Al-
liance, O. (See adv. index & branch offices,
end of book)

NORTHERN ENGINEERING WORKS,
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& branch offices, end of book)
WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

Cranes (Gantry)

Alliance Machine Co., Alliance, O.
Box, Alfred & Co. (Traveling, etc.), 813 N
Front, Phila., Pa.
BROWN HOISTING MACHINERY CO.,
4403 St. Clair, N E, Cleveland, O. (See
adv. index & branch offices, end of book)
Case Crane Co., St. Clair & Curtis avs.,
Columbus, O.

CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end
of book)

Curtis & Co. Mfg. Co. (Pneumatic), St. Louis,
Interstate Engineering Co., Bedford, O. Mo
JEFFREY MFG. CO., Columbus, O. (See
adv. index & branch offices, end of book)
McMyler Mfg. Co., 1799 Columbus rd., Cleve-
land, O. Works: Warren, O.

MORGAN ENGINEERING CO., Alliance, O.
(See adv. index & branch offices, end of book)
NEW JERSEY FOUNDRY & MACHINE
Co., 90 West, New York

NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)
Pawling & Harnischfeger, 38th & National avs,
Milwaukee, Wis.

RUSSEL WHEEL & FOUNDRY CO.,
(See adv. index & branch offices, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Phila., Pa.

Shaw Electric Crane Co., Muskegon, Mich.,
& 85 Liberty, New York

Variety Iron & Steel Works Co., Cleveland, O.
Wellman-Seaver-Morgan Co., Cleveland, O.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

Wood, R. D. (With Hydraulic Hoist & Elec-
tric Rotation), 400 Chestnut, Phila., Pa.

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American Machine & Mfg. Co., Cleveland, O.
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BROWN HOISTING MACHINERY CO.,
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adv. index & branch offices, end of book)
Byram & Co. (Inc.), Detroit, Mich.
Calumet Engineering Works, Harvey, Ill.
Case Crane Co., St. Clair & Curtis avs.,
Columbus, O.

CHISHOLM & MOORE MFG. CO., 49th
& Lake, Cleveland, O. (See adv. index, end
of book)

CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end
of book)

Coburn Trolley Track Mfg. Co. (And Hand
Power Traveling), Holyoke, Mass.

Curtis & Co. Mfg. Co., St. Louis, Mo.

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Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)
FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)



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HILL & GRIFFITH CO., Cincinnati, O.
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Industrial Works, Bay City, Mich.
Lewis Foundry & Machine Co., Coraopolis, Pa.
Lincoln Iron Works (Jib, etc.), for Stone Quar-
ries & Stone Mills, etc.), Rutland, Vt.
Maris Bros., 56th & Gray's Ferry rd, Phila., Pa.
Moore, Franklin Co., Winsted, Conn.
Morgan Cons. Co. (Traveling), Worcester, Mass.
NEW JERSEY FOUNDRY & MACHINE
Co., 90 West, New York
Niehells, Wm. S. (Portable), 253 B'way, New
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NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)
Obenberger, Jno. Co. (Traveling I Beams, up to
10-ton), Milwaukee, Wis.
Pawling & Harnischfeger, 38th & National avs.,
Milwaukee, Wis.
Putnam & Co. ("Hand Power Traveling"), 244
Water, New York
Quincy - Manchester - Sargent Co., Plainfield,
N. J.
RANSOME CONCRETE MACHINERY
Co., Dunellen, N. J. (See adv. index &
branch offices, end of book)
READING CRANE & HOIST WORKS
(Traveling, etc.), Reading, Pa. (See adv.
index, end of book)
Scaife Foundry & Machine Co. (Ltd.), Pitts-
burg, Pa.
St. Cloud Iron Works (Hand Power Traveling),
St. Cloud, Minn.
Shaw Electric Crane Co., 85 Liberty, New
York. Works: Muskegon, Mich.

Shepard Electric Crane & Hoist Co., Montour
Falls, N. Y. & 149 B'way, New York
Shriver, T. & Co., Harrison, N. J.
SPEIDEL, JOHN G. (Hand Power Trav-
elling), Reading, Pa. (See adv. index, end
of book)
WHITING FOUNDRY EQUIPMENT
Co. (Hand Power, Traveling, etc.), **Harvey,**
Ill. (See adv. index & branch offices, end of
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Yale & Towne Mfg. Co., 9 Murray, New York

Cranes (Hydraulic)

Alliance Machine Co., Alliance, O.
Chambersburg Eng. Co., Chambersburg, Pa.
CLEVELAND CRANE & ENGINEERING
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Lewis Foundry & Machine Co., Coraopolis, Pa.
Mackintosh-Hemphill & Co. (Ltd.), Pittsburg
Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO., Al-
liance, O. (See adv. index & branch offices,
end of book)
Ridgway, Craig & Son Co. (Direct Self Act-
ing, etc.), Coatesville, Pa.
Scaife Foundry & Machine Co. (Ltd.), 28th &
Smallman, Pittsburg, Pa.
Schiers, Wm. & Co. (Inc.), Phila., Pa.
Tod, Wm. Co. (Direct Self-Acting, etc.),
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400 Chestnut, Phila., Pa.
WRIGHT WIRE CO., Worcester,
Mass.

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American Machine & Mfg. Co. (Hand Power),
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Batcheller, Clark & Batcheller, 240 N 10th,
Brooklyn, N. Y.
Box, Alfred & Co., 813 N Front, Phila., Pa.
BROWN HOISTING MACHINE CO.,
4403 St. Clair, N E, Cleveland, O. (See
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Byram & Co. (Inc.) (Hand Power), 435 Guoin,
Detroit, Mich.
Calumet Engineering Works, Harvey, Ill.
CANTON FOUNDRY & MACHINE CO.
(Wood, with Iron Fixtures), Canton, O. (See
adv. index, end of book)
Case Crane Co. (Belt, Hand Power & Elec-
tric), St. Clair & Curtis avs., Columbus,
Ohio

CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end
of book)
Curtis & Co. Mfg. Co. (Pneumatic), St. Louis,
Mo.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)
FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)
G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Interstate Engineering Co., Bedford, O.

Johnston & Jennings Co., Cleveland, O.
Jones & Laughlin Steel Co. (Small Jib Crane
or Worm Hoist), Pittsburg, Pa.
Lewis Foundry & Machine Co., Coraopolis, Pa.
Maris Bros., 56th & Gray's av, Phila., Pa.
Morgan Construction Co., Worcester, Mass.

MORGAN ENGINEERING CO (For
Rolling Mills, etc.), Alliance, O. (See adv.
index & branch offices, end of book)

NEW JERSEY FOUNDRY & MACHINE
Co. (Walking, etc.), 90 West, New York
Niles-Bement-Pond Co., 111 B'way, New York

NORTHERN ENGINEERING WORKS
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Mich. (See adv. index & branch offices,
end of book)

Obenberger, John, Co. (Hand Power), Milwaukee,
Wis.

Pawling & Harnischfeger (Electric & Hand), 38th
& National avs., Milwaukee, Wis.
Quincy-Manchester-Sargent Co. ("Q. & C."
Post & Hydro Pneumatic), Plainfield, N.J.

READING CRANE & HOIST WORKS,
Reading, Pa. (See adv. index, end of book)

Ridgway, Craig & Son Co., Coatesville, Pa.
Schiers, Wm. & Co. (Inc.), 1600 Hamilton, Phil-
adelphia, Pa.

Shaw Electric Crane Co., Muskegon, Mich.,
85 Liberty, New York

Shepard Electric Crane & Hoist Co., Montour
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United Engineering & Foundry Co., Farmers'
Bank Bldg., Pittsburg, Pa.

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Co. (Hydraulic, Pneumatic, Electric, Steam,
Hand, etc.), Harvey, Ill. (See adv. index &
branch offices, end of book)

Whitehead & Kales Iron Works, Detroit,
Michigan

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Phila., Pa.

Yale & Towne Mfg. Co. (Hand Power), 9
Murray, New York

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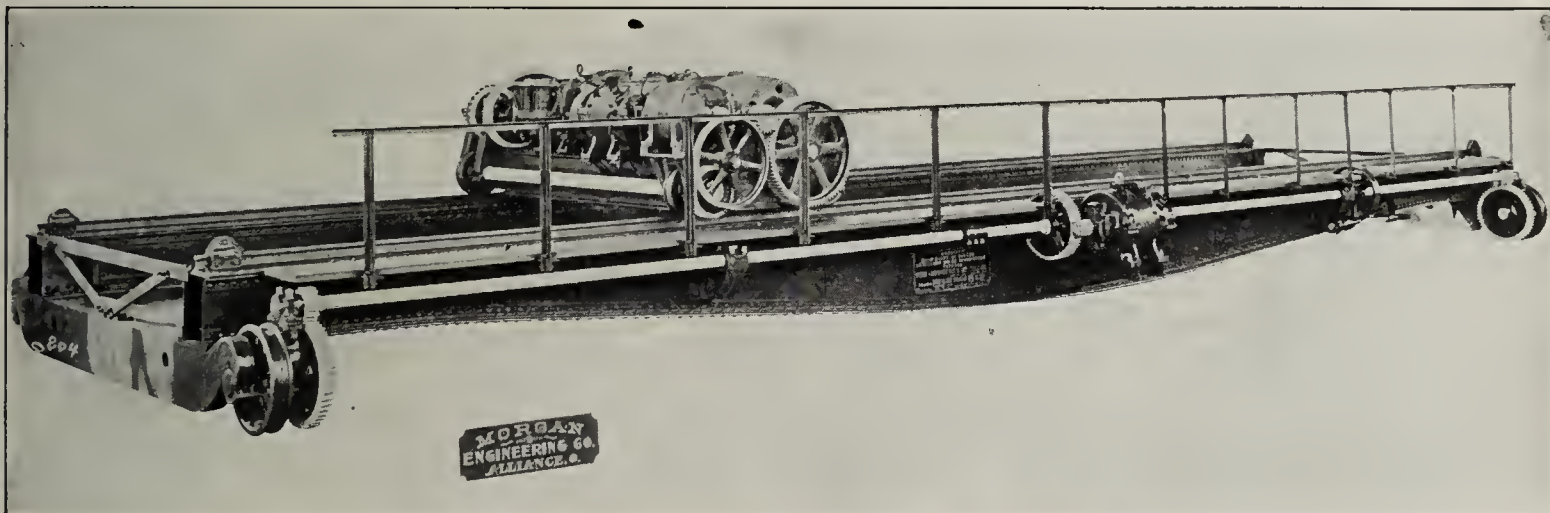
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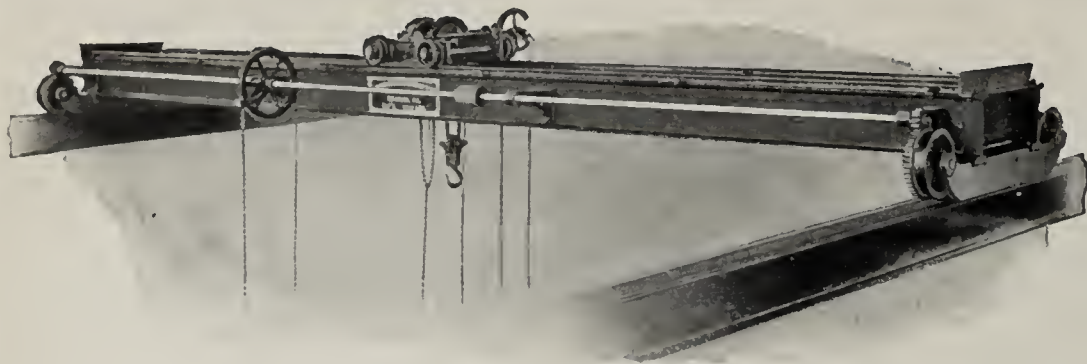
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tric), Alliance, O. (See adv. index & branch
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(See adv. index & branch offices, end of book)
Browning Engineering Co., Collinwood, Cleve-
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Y. (See adv. index, & branch offices, end
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Industrial Works (Electric & Steam), Bay City,
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Interstate Engineering Co., Bedford, O.
JEFFREY MFG. CO., Columbus, O. (See
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McMyler Mfg. Co., 1799 Columbus road, Cleve-
land, O. Works, Warren, O.
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9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)
Sellers, Wm. & Co. (Inc.) (Locomotive Jib
Cranes for Dry Docks & Piers), 1600
Hamilton, Phila., Pa.
Variety Iron & Steel Works Co., Cleveland, O.
Wellman-Seaver-Morgan Co., Cleveland, O.

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DOBBIE FOUNDRY & MACHINE CO.,
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adv. index & branch offices, end of book)
McMyler Mfg. Co., Columbus road, Cleveland, O.
Works, Warren, O.
NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)

Crane (Locomotive Water)

(See also Water Columns or Stations, Railroad)
American Valve & Meter Co. ("Poage's" Auto-
matic), Cincinnati, Ohio
FAIRBANKS, MORSE & CO., Wabash av.
& Eldredge pl., Chicago, Ill. (See adv.
index & branch offices, end of book)
Otto Gas Engine Works, 33d & Walnut, Phila.,
Pa.
Sheffield Car Co., Three Rivers, Mich.
U. S. Wind Engine & Pump Co., Batavia, Ill.

Crane (Logging)

BROWN HOISTING MACHINERY CO.,
4403 St. Clair, N E, Cleveland, O., & 26
Cortlandt, New York. (See adv. index &
branch offices, end of book)
Industrial Works, Bay City, Mich.
KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)
LIDGERWOOD MFG. CO., 96 Liber-
ty, New York. (See adv. index & branch
offices, end of book)
Phoenix Mfg. Co. (Direct Acting Steam), Eau
Claire, Wis.
RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of
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Barker Mail Crane Co., Clinton, Ia.
Columbian Mail Crane Co. ("Columbian" Mail),
898 Factory, Columbus, O.

Crane (Pillar)

Alliance Machine Co., Alliance, O.
Box, Alfred & Co., 813 N Front, Phila., Pa.
BROWN HOISTING MACHINERY CO.,
4403 St. Clair, N E, Cleveland, O. (See
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Case Crane Co., St. Clair & Curtis avs.,
Columbus, O.
CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end
of book)
Currier, Cyrus & Sons, Newark, N. J.
Farrel Foundry & Machine Co., Ansonia, Conn.
Industrial Works (Pillar & Transfer for Use in
Handling Freight), Bay City, Mich.
Interstate Engineering Co., Bedford, O.
McMyler Mfg. Co., 1799 Columbus rd, Cleve-
land, O. Works: Warren, O.
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& branch offices, end of book)
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Chicago Pneumatic Tool Co., Fisher bldg, Chi-
cago, Ill.
Curtis & Co. Mfg. Co. ("Curtis" Travelling,
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HILL & GRIFFITH CO., Cincinnati, O.
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Miles, Geo. Co., Winsted, Conn.
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Ridgway, Craig & Sons Co., Coatesville, Pa.
Shepard Electric Crane & Hoist Co. ("Shep-
ard"), Montour Falls, N. Y.
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Co., Harvey, Ill. (See adv. index &
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Crane (Portable)

CANTON FOUNDRY & MACHINE CO.
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(See adv. index, end of book)
Dale Engine & Supply Co., Franklin, Pa.
Franklin Portable Crane & Hoist Co. (All Iron,
on Wheels), Franklin, Pa.
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Hunt, C. W. Co., New Brighton, New York
City
Loetzer Valve & Mfg. Co. ("Little Giant" All
Iron, Monroeton, Pa.
Nicholls, Wm. S. (Roller Bearing Wheels, Ca-
pacity up to 6,000 lbs.), 253 B'way, New
York
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Crane (Railway)

(See Cranes, Wrecking)

Crane (Riveting)

Alliance Machine Co., Alliance, Ohio.
Case Crane Co., St. Clair & Curtis avs.,
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Chambersburg Engineering Co., Chambersburg,
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CLEVELAND CRANE & ENGINEERING
Co., Cleveland, O. (See adv. index, end
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MORGAN ENGINEERING CO. (Electric,
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BROWN HOISTING MACHINERY CO.
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 E, Cleveland, O. (See adv. index & branch
 offices, end of book)
CLEVELAND CRANE & ENGINEERING
 Co., Cleveland, O. (See adv. index, end
 of book)
 Industrial Works (For Station Use in Handling
 Freight), Bay City, Mich.
NEW JERSEY FOUNDRY & MACHINE
 Co., 90 West, New York
 Shaw Electric Crane Co., Muskegon, Mich.,
 & 85 Liberty, New York
 Shepard Electric Crane & Hoist Co., Montour
 Falls, N. Y.
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index &
 branch offices, end of book)

Cranes (Traveling)

(See also Cranes, Electric Traveling)

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 Batcheller, Clark & Batcheller (Electric &
 Hand Power), 240 N 10th, Brooklyn, N. Y.
 Broomell, Schmidt & Stency Co., York, Pa.
 Calumet Engineering Works (Electric), Har-
 Case Crane Co., Columbus, O.
CHISHOLM & MOORE MFG. CO., (Hand
Power), 49th & Lake, Cleveland, O. (See
adv. index, end of book)
CLEVELAND CRANE & ENGINEERING
 Co., Cleveland, O. (See adv. index, end
 of book)
 Coburn Trolley Track Mfg. Co. (Hand Power),
 Holyoke, Mass.
DOBBIE FOUNDRY & MACHINE CO.
 (Hand Power), Main Office & Works: Ni-
 agara Falls, N. Y. (See adv. index &
 branch offices, end of book)
G. & W. MFG. CO. (Hand & Power),
 26 Cortlandt, New York. (See adv. index,
 end of book)

Harrington, Edwin Son & Co. (Hand), 17th &
 Callowhill, Philadelphia, Pa.
HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)
 Hoist Mfg. & Construction Co., 310 N 17th,
 Philadelphia, Pa.
 Lane Mfg. Co. ("Anderson" Rope Driven).
 Montpelier, Vt.
 Love Bros. (Inc.) (Hand & Power), Aurora, Ill.
 Modern Steel Structural Co. (Electric), Wau-
 kesha, Wis.
 Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO. (Elec-
tric), Alliance, O. (See adv. index & branch
offices, end of book)
 New Albany Mfg. Co. (Single Motor, Elec-
 tric), New Albany, Ind.
NEW JERSEY FOUNDRY & MACHINE
 Co., 90 West, New York
NORTHERN ENGINEERING WORKS
 (Electric & Hand), 9 Chene, Detroit, Mich.
 (See adv. index & branch offices, end of book)
 Pawling & Harnischfeger, 38th & National av,
 Milwaukee, Wis.
 Quincy-Manchester-Sargent
 Co. (Hand),
 Plainfield, N. J.
RANSOME CONCRETE MACHINERY
 Co., Dunellen, N. J. (See adv. index &
 branch offices, end of book)
READING CRANE & HOIST WORKS
 (Hand Power), Reading, Pa. (See adv. in-
 dex, end of book)
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of
 book)
 Shaw Electric Crane Co. (Electric), 85
 Liberty, New York; Works: Muskegon,
 Mich.
SHAW, WILLIS CO. (New & Second-
Hand), 171 La Salle, Chicago, Ill. (See adv.
index, end of book)
 Shriver, T. & Co. (Electric, etc.), Harrison,
 N. J.
SPEIDEL, JOHN G. (Hand Power),
 Reading, Pa. (See adv. index, end of book)
 Whitehead & Kales Iron Works, Detroit,
 Mich.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
 Yale & Towne Mfg. Co. (Hand Power), 9
 Murray, New York

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 Co., Cleveland, O. (See adv. index, end
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NORTHERN ENGINEERING WORKS.
 9 Chene, Detroit, Mich. (See adv. index &
 branch offices, end of book)
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch
 offices, end of book)

Cranes (Water, for Sprinkling Wagons)

Eddy Valve Co., Waterford, N. Y.
 Ludlow Valve Mfg. Co. (For Sprinkling Cars,
 etc.), Troy, N. Y.
McMANN & TAYLOR, 104 John, New
 York. (See adv. index, end of book)

Cranes (Wrecking)

American Car & Foundry Co., 706 Chestnut,
 St. Louis, Mo.
BROWN HOISTING MACHINERY CO.,
 4403 St. Clair, N E, Cleveland, O. (See
 adv. index & branch offices, end of book)
 Browning Engineering Co., Cleveland, O.
 Bucyrus Co., South Milwaukee, Wis.
FAIRBANKS, MORSE & CO., Wabash av.
 & Eldredge pl, Chicago, Ill. (See adv.
 index & branch offices, end of book)
 Industrial Works (Steam & Hand Power), Bay
 City, Mich.
 Interstate Engineering Co., Bedford, O.
 Marion Steam Shovel Co., Marion, O.
 Mount Vernon Car Mfg. Co., Mount Vernon,
 Ill.
 Sellers, Wm., & Co. (Inc.), 1600 Hamilton,
 Philadelphia, Pa.

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CROSBY STEAM GAGE & VALVE CO.,
 95 Oliver, Boston, Mass. (See adv. index
 & branch offices, end of book)

Crank Pins

Braeburn Steel Co. (Steel), Braeburn, Pa.
 Cambria Steel Co., Arcade bldg., Phila., Pa.

Crank Turning Device

Hill Standard Mfg. Co. ("Hill"), Anderson, Ind.

Cranks (Ball)

Cincinnati Ball Crank Co. (Steel), Cincinnati,
 Ohio

Cranks (Milling Machine)

Billings & Spencer Co. (Drop Forged), Hart-
 ford, Conn.

Crankshafts

American Brake Shoe & Foundry Co. (Cast
 Steel), Mahwah, N. J.
 Atlas Forgings Co., Lansing, Mich.
 Bethlehem Steel Co. (Nickel Steel, etc.), South
 Bethlehem, Pa.
 Block-Pollak Iron Co., Carthage, Cincinnati,
 Ohio
 Boston Forge Co., 340 Maverick, E. B., Bos-
 ton, Mass.
 Braeburn Steel Co. (Steel), Braeburn, Pa.
 Brylgon Steel Casting Co. (Cast Steel), New
 Castle, Del.
 Cambria Steel Co. (Steel), Arcade bldg.,
 Phila., Pa.
 Carbon Steel Co. (Nickel, Steel, etc.), 32d &
 Smallman, Pittsburg, Pa.
 Carnegie Steel Co., Carnegie bldg. Pittsburg, Pa.
 Chester Engineering & Machine Co., Chester,
 Pa.
 Chester Steel Castings Co. (Cast Steel), Ches-
 ter, Pa., & 407 Sansom, Phila., Pa.
 Cleveland City Forge & Iron Co., Cleveland, O.
 Crescent Forgings Co., Oakmont, Pa.
 Crucible Steel Co. of America, Frick bldg.
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 Wainwright bldg. St. Louis, Mo.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Keystone Drop Forge Works (Drop Forged)
 Chester, Pa.
 Midvale Steel Co. (Nickel, Steel, etc.), Main of
 fice & Works, Nicetown, Philadelphia, Pa.
 Morris, Herbert, Betz bldg. Philadelphia, Pa.
PAGE-STORMS DROP FORGE CO.
 (Drop Forged), Chicopee, Mass. (See adv.
 index, end of book)
 Penna. Steel Co., Girard bldg. Philadelphia, Pa.
 Reading Iron Co., Reading, Pa.
 Richmond Forgings Corporation (Drop Forged),
 Belle Isle, Richmond, Va.
 Sizer Forge Co., Buffalo, N. Y.
 Sundberg, Kropp & Co., 1121 W 21st, Chi-
 cago, Ill.
 Tindell-Morris Co. (Steam Forgings, Gas En-
 gine Shaft, Finished Ready for Installa-
 tion), Eddystone, Pa., & Ellwood City, Pa.
 Titusville Forge Co. (Centre Throw), Titusville,
 Pa.
 Union Drop Forge Co. (Drop Forged Weld-
 less), Chicago, Ill.
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Wyman & Gordon (Drop Forged), Worcester,
 Mass.

Crankshafts (Automobile)

(See also Crankshafts; also Forgings, Drop)
 Acme Steel & Malleable Iron Works, 245 Mill
 tary rd. Buffalo, N. Y.
ANDERSON FORGE & MACHINE CO.
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)
 Atlas Forgings Co., Lansing, Mich.
 Billings & Spencer Co., Hartford, Conn.
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Brazier Automobile Works, 1811 Fitzwater,
 Philadelphia, Pa.
 Chester Engineering & Machine Co., Chester,
 Cambria Forge Co., Johnstown, Pa.
 Carpenter Steel Co. (Nickel Chrome Steel),
 Reading, Pa.
 Chester Forging & Eng. Co., Chester, Pa.
 Columbus Screw & Machine Co., 244 Kaiser,
 Columbus, Ohio
 Erie Forge Co. (Drop Forge), Erie, Pa.
 Funk Engineering Co., 39 14th, Hoboken, N.J.
 Gill, P. H. & Sons, Lorraine, c Otsego,
 Brooklyn, N. Y.
 Hussey Drop Forge & Mfg. Co., Axtell, opp.
 Usage, Cleveland, O.
 Laner, Jno. Machine Co., Detroit, Mich.
 Leland, W. H., Worcester, Mass.
PAGE-STORMS DROP FORGE CO.
 Chicopee, Mass. (See adv. index, end of
 book)
 Standard Connecting Rod Co., Beaver Falls, Pa.
 Tioga Steel & Iron Co., 52d and Gray's av.,
 Phila., Pa.
 Wyman & Gordon Co., Worcester, Mass.

*Crankshafts (Bronze)

PAGE-STORMS DROP FORGE CO. Chi-
 copee, Mass. (See adv. index, end of book)

Crankshafts (Gas Engine)

ANDERSON FORGE & MACHINE CO.
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)
 Chester Engineering & Machine Co., Chester,
 Pa.
 Erie Forge Co., Erie, Pa.
 Lauer, Jno. Machine Co., Detroit, Mich.
PAGE-STORMS DROP FORGE CO.
 Chicopee, Mass. (See adv. index, end of
 book)
 Standard Connecting Rod Co., Beaver Falls,
 Pa.
 Tindell-Morris Co. (Finished), Eddystone, Pa.
 & Ellwood City, Pa.
 Tioga Steel & Iron Co., 52d & Gray's av., Phila.,
 Pa.
 Union Drop Forge Co. (Drop Forged Weld-
 less), Chicago, Ill.

Crates (Bag)

Van Hook, F. P. ("Usona," for Shipping
 Empty Cement & Plaster Bags), Denver
 Colo.

Crayon Mfrs.

(See also Crayons & Pencils, Metal Workers:
 also Pencil Manufacturers)

AMERICAN CRAYON CO. (All Kind-
 for All Purposes), Sandusky, O., & Wal-
 tham, Mass. (See adv. index & branch
 offices, end of book)
 American Lava Co. (Fdry), Chattanooga, Tenn.
 American Lead Pencil Co. (Colored), 43 W 4th,
 New York
 American Supply Co. (Lumber), Mobile, Ala.
 Blaney & Smlth Co. (Marking, School & Art-
 ists), 81 Fulton, New York
 Chrystal, Chas. B. (Metal Workers), 184 Water,
 New York
 Cohutta Talc Co. (Blackb'd), Dalton, Ga.
DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's" Graphite, Metal Workers', Colored)
 Jersey City, N. J. (See adv. index & branch
 offices, end of book)
DOGGETT, STANLEY (Soapstone).
 101 Beekman, New York. (See adv. index,
 end of book)
 Eagle Pencil Co. (Colored), 377 B'way, New
 York
 Faber, Eberhard (Colored), 299 B'way, New
 York
 Franklin Crayon Co. (Civil Engineers' & Check-
 ing), Rochester, N. Y.
 Korn, William (Marking & Lithographic), 120
 Centre, New York
 Lowell Crayon Co. (Mill & Metal Workers'),
 Lowell, Mass.
 Nevins, Samuel C. Co. (Importer, French Chalk
 & Talc), 109 S 2d, Phila., Pa.
 New York Silicate Book Slate Co. (Silicate), 68
 Church, New York
 North Carolina Talc & Mining Co. (Talc),
 Hewitts, N. C.
 Standard Crayon Mfg. Co. ("Falcon" & "U. S.
 Standard," 4 Colors, for All Purposes)
 Danvers, Mass.
 Steward, D. M. Mfg. Co. ("Compo," Dustless),
 Chattanooga, Tenn.
 Zelnicker, Walter A., Supply Co. ("Zelnicker"
 Soapstone Lumber, etc.), St. Louis, Mo.

*Crayons (Bowling Alley)

AMERICAN CRAYON CO., Sandusky.
 O., & Waltham, Mass. (See adv. index &
 branch offices, end of book)

*Crayons (Colored)

AMERICAN CRAYON CO., Sandusky.
 O., & Waltham, Mass. (See adv. index &
 branch offices, end of book)
DIXON, JOS., CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch of-
 fices, end of book)

*Crayons (Dustless, White & Colored)

AMERICAN CRAYON CO. (Hygieia).
 Sandusky, O., & Waltham, Mass. (See
 adv. index & branch offices, end of book)

*Crayons (Leather)

AMERICAN CRAYON CO. (Beacon).
 Sandusky, O., & Waltham, Mass. (See
 adv. index & branch offices, end of book)

*Crayons (Lecturers')

AMERICAN CRAYON CO., Sandusky.
 O., & Waltham, Mass. (See adv. index &
 branch offices, end of book)

*Crayons (Lumber)

AMERICAN CRAYON CO. (Acme).
 Sandusky, O., & Waltham, Mass. (See adv.
 index & branch office, end of book)

*Crayons (Marble)

AMERICAN CRAYON CO., Sandusky.
 O., & Waltham, Mass. (See adv. index &
 branch offices, end of book)

Crayons (Mill)

(See Crayon Manufacturers)

*Crayons (Railroad)

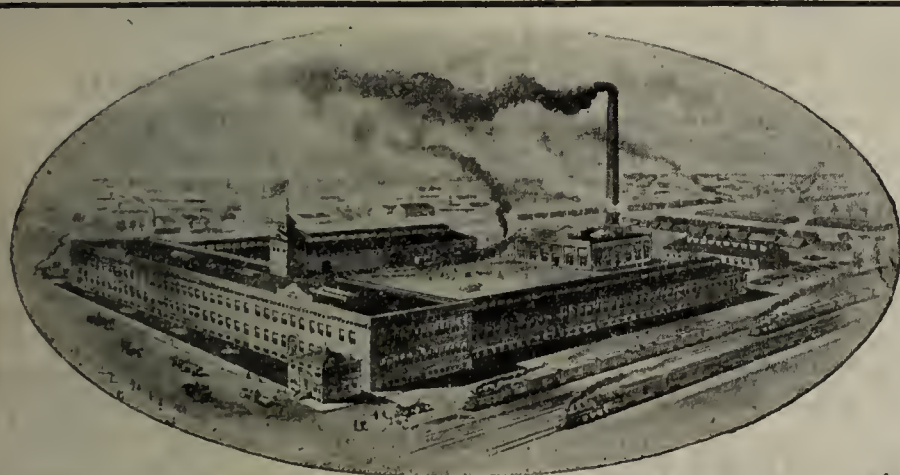
AMERICAN CRAYON CO., Sandusky.
 O., & Waltham, Mass. (See adv. index &
 branch offices, end of book)

*Crayons (School)

AMERICAN CRAYON CO. (White & Colored), Sandusky, O., & Waltham, Mass. (See adv. index & branch offices, end of book)
DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch
 offices, end of book)

*Crayons (Wax & Oil, School & Package)

AMERICAN CRAYON CO., Sandusky.
 O., & Waltham, Mass. (See adv. index &
 branch offices, end of book)



Gen. Offices, Works and Laboratories, located at SANDUSKY, OHIO.

CRAYONS FOR EVERY PURPOSE.

School Crayons, White and Colored of every description, Hygieia Dustless Crayons, White and Colored, Lecturers Crayons, Pastello Crayons, Tailors Crayons, Textile Mill Crayons, Railroad Crayons, Wax and Oil School and Package Crayons, Hydraulic Pressed Crayons, Lumber Crayons, Metal Workers Crayons, Marking Crayons, Checking Crayons, Marble Crayons, Leather Crayons, Bowling Alley Crayons, Carpenters Chalk, Lump Chalk, Powdered Chalk, Hand Bowling Chalk, Foot Bowling Chalk, Billiard Chalk, White and Colored, Water Color Paints, Water Color Pencils, Hygieia Nest Eggs, Hygieia Dust Collector, Lock Cornered Basswood Boxes and Blackboard Erasers.

THE AMERICAN CRAYON CO.
 SANDUSKY, O. U. S. A. WALTHAM, MASS.

Crayons & Pencils (Metal Workers', Etc.)

AMERICAN CRAYON CO., Sandusky, O., & Waltham, Mass. (See adv. index & branch offices, end of book)
Blaney & Smith Co., 81 Fulton, New York
Chrystal, Chas. B., 184 Water, New York
Cohutta Talc Co. (Talc Soapstone), Dalton, Ga.
DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)
DOGGETT, STANLEY (Soapstone), "Peerless" & "Perfection" Brands, 101 Beekman, New York. (See adv. index, end of book)
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Hoffman, F. G., Beta, N. C.
Lowell Crayon Co., Lowell, Mass.
Nevins, Sam'l Co. (Talc & French Chalk), 109 S 2d, Phila., Pa.
North Carolina Talc & Mining Co. (Talc), Hewitts, N. C.
Steward, D. M. Mfg. Co. ("Compo"), Chattanooga, Tenn.
Zeinicker Crayon Works, St. Louis, Mo.

Creamery Apparatus and Supplies

(See Creamery Machinery; also Separators, Cream; also Testers, Creamery, Etc.)

Creepers (Anti-Rail)

Belle City Malleable Iron Co. ("L. & S."), Racine, Wis.
Cleveland Frog & Crossing Co. ("Prentice"), Cleveland, O.
National Railway Materials Co. ("Murray"), 90 West, New York
Oliver Iron & Steel Co. (Anti-Creeper Device), Pittsburgh, Pa.
Quincy-Manchester-Sargent Co. ("Racine," "L. & S.," "Q. & C.," "Bull Dog," "Otto," "Murray"), Plainfield, N. J.

Creepers (Ice)

American Sales Co. ("Little Olincher"), 22 Bible House, New York
Gay, Geo. E., Augusta, Me.
Holderbaum, John I. ("Reliance"), Somerset, Pa.
Norlund & Co. ("Norlund"), Williamsport, Pa.
Sayre, L. A. & Co., Newark, N. J.
Sinclair-Scott Mfg. Co., Baltimore, Md.
Union Hardware Co., Torrington, Conn.

Creosoting Works

(See also Wood Preservatives)

American Creosote Works, New Orleans, La.
Atlantic Creosoting & Wood Preserving Works, Norfolk, Va.
Ayer & Lord Tie Co., Railway Ex. bldg. Chicago, Ill.
Colman Creosoting Works, Seattle, Wash.
Eppinger & Russell Co., 66 Broad, New York
Galveston Creosoting Co. (Bridge Timbers, Ties, etc.), Fort Worth, Tex.
Georgia Creosoting Co., Lambertville, N. J.
International Creosoting & Construction Co., Galveston, Tex.
Kansas City Creosoting Co., Kansas City, Mo.
Kettle River Quarries Co., Minneapolis, Minn., also St. Louis, Mo.
Norfolk Creosoting Co., Citizens Bank bldg., Norfolk, Va.
Southern Creosoting Co., Slidell, La.
Taylor, J. W., Summerville, S. C.
Wyckoff Pipe & Creosoting Co., 50 Church, New York

Crestings (Terra Cotta)

(See Roofing Tile, Terra Cotta)

Crestings & Finials (Iron)

Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T., Wire & Iron Works (Iron), 82 Washington av, Detroit, Mich.
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
CINCINNATI MFG. CO., 1243 W 6th Cincinnati, O. (See adv. index, end of book)
Greawell, J. S., Iron Works, 23d & Cherry, Philadelphia, Pa.

Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
Fiske, J. W. Iron Works, 56 Park pl., New York
Gensel, Fred & Co., 911 Vine, Phila., Pa.
Goodwin, F. O., N 53d & Wyandling, Phila., Pa.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

JONES, THOS. W., 22 Burling st., New York. (See adv. index, end of book)
Mesker & Bro., 421 S 6th, St. Louis, Mo.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Mott, J. L. Iron Works, 118 5th av, New York
PITT, WM. R., COMPOSITE IRON Works, 136 W 24th, New York. (See adv. index, end of book)
SCHREIBER, L & SONS CO., 8th & Eggleston av., Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

VAN DORN IRON WORKS CO. (Crestings), 2685 W 79th, Cleveland, O. (See adv. index, end of book)
Wells Architectural Iron Co., 219-221 E 144th, New York
Westervelt, A. B. & W. T., 102 Chambers, New York
Whyte, Oliver & Co., 17 Cornhill, Boston, Mass.

Crestings & Finials (Sheet Metal)

BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
Canton Art Metal Co., Canton, O.
EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)
Eller Mfg. Co., Canton, O.
Gara, McGinley & Co., 23 S 17th, Phila., Pa.
Hogert, Theo. E., 384 2d av, New York
Indianapolis Corrugating Co. (Ornamental, Galvanized Steel), Indianapolis, Ind.
JONES, THOS. W., 22 Burling st., New York. (See adv. index, end of book)
Kanneberg Roofing & Ceiling Co., Canton, O.
Kelley, Wm. J., 448 Adelphi, Brooklyn, N. Y.
MILWAUKEE ARTISTIC METAL CEILING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
MILWAUKEE CORRUGATING CO., S. B. & Aldrich, Milwaukee, Wis. (See adv. index & branch offices, end of book)
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)
NATIONAL SHEET METAL ROOFING Co., 339 Grand, Jersey City, N. J. (See adv. index, end of book)
Van Noorden, E., Co., 944 Mass. av, Boston, Mass.

Cribbage Boards

American Pin Co., Waterbury, Conn.
Hoyt, Jas. L., East Norwalk, Conn.

Crocus

Hanson & Van Winkle Co., Newark, N. J.

Cross Arms, Brackets, Etc. (Steel)

Ajax Line Material Co. ("Volta"), 12 S Jefferson, Chicago, Ill.
Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
Belmont Iron Works, 2215 Washington av, Philadelphia, Pa.
Bissell, F. Co. ("Security," Angle Iron), Toledo, O.
Brady, T. H., New Britain, Conn.
Creaghead Engineering Co. (Steel Flexible), Cincinnati, O.
Cutter, Geo. Co., South Bend, Ind.
Electric Railway Equipment Co., 1938 W 8th, Cincinnati, O.
Fletcher Mfg. Co., Dayton, O.
Gallett Iron Works, 96 W Polk, Chicago, Ill.
Hill, W. S. Elec. Co., New Bedford, Mass.
Inghard & Co., Pittsburg, Pa.
Janz, M. & Sons (Steel Angle), 101 S. 29th, Pittsburg, Pa.
Metall Finishing Co., Union City, Conn.
Morris, Elmer P. Co., 50 Church, New York
NEWHALL CHAIN, FORGE & IRON CO., 90 West, New York

Ohio Brass Co., Mansfield, O.
Pierce Specialty Co., Elkhart, Ind.
SIMMONS, JOHN CO., 110 Centre, New York. (See adv. index, end of book)
Walworth Mfg. Co., Boston, Mass.
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Cross Arms (Creosoted)

(See Creosoting Works)

Cross Arms (Wood)

(See also Insulator Pins & Brackets)

Absher, W. M. Co., North Wilkesboro, N. C.
Anguera Lumber Co., Fisher bldg. Chicago, Ill.
Berthold & Jennings, 721 Olive, St. Louis, Mo.
Bissell, F. Co., Toledo, O.
Boggs & McNeill Co., Albany, Ga.
Brownlee & Co., Meridian, Miss.
Bruton, J. C., Fayetteville, N. C.
California Pole & Piling Co., San Francisco, Cal.
Central Mfg. Co. (Yellow Pine Brackets, Cross Arms & Pins), Chattanooga, Tenn.
Clark, Aaron F., Peabody, Mass.
Cohn & Bock (Yellow Pine Cross Arms, Oak Insulator Pins & Brackets), Princess Anne, Columbia Mfg. Co., Annapolis, Md.
DIAMOND EXPANSION BOLT CO. (Insulator Pins), 90 West, New York. (See adv. index & branch offices, end of book)
Elkin Machine Co., Elkin, N. C.
Ferguson Lumber Co., Little Rock, Ark.
GENERAL ELECTRIC CO. (Steel), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Houston & Liggett (Live & White Oak, Gum & Elum Insulator Pins), Lewisburg, Tenn.
Kapp & Miller Co. (Cross Arms, etc.), Rural Hall, N. C.
Lake Yale Lumber Co. (Cross Arms), Grand Island, Fla.
Lewis Lumber & Mfg Co., Hattiesburg, Miss.
Lindsley Bros. Co., Spokane, Wash.
Metal Finishing Co., Union City, Conn.
Nashua Spool & Bobbin Co., Journal Bldg., Boston, Mass.
Noblett, E. J. Co., West Pullman, Chicago, Ill.
Norfolk Creosoting Co., Norfolk, Va.
Pilliod Lumber Co., Swanton, O.
Roper, J. L. Lumber Co., Norfolk, Va.
Southern Exchange Co. (Georgia Pine Cross Arms), Maxton, N. C.
Southern Pine Mfg. Co., Paducah, Ky.
Spartan Cross Arm, Pin & Bracket Co., Spartanburg, S. C.
Texas Arm & Pin Co. ("Dewey"), Beaumont, Tex.
Union Railway Supply Co., Phila., Pa.
Vuncannon, J. B., West End, N. C.
Walworth & Neville Mfg. Co. (Cross Arms, Oak Insulated Brackets), Buell, Va.
Western Electric Co. (Cross Arms), 259 S. Clinton, Chicago, Ill., & 57 Bethune, New York
Wyckoff Pipe & Creosoting Co., Stamford, Conn.

Cross Ties

(See Ties, Poles & Posts)

*Crosses (Pipe Fitting)

LUNKENHEIMER CO. (Brass), General Offices & Works, Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Crossings (Railway)

(See Frogs, Switches, Crossings, Etc.)

Crow Bar Mfrs.

Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.) (Pinch or Wedge Point, etc.), Aiton, Ill.
Collins Co., Collinsville, Conn., & 212 Water, New York
Dobie, Abner Co., San Francisco, Cal.
Evansville Tool Works (Pinch & Wedge Point), Evansville, Ind.
Falls Mfg. Co., San Francisco, Cal.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Iron City Tool Works, 32d & Smallman, Pittsburgh, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Klein-Logan Co., S 13th & Breed, Pittsburgh, Pa.

Logan Iron & Steel Co., Burnham, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"),
 Works: Cheswick, Pa.
 Sweet's Steel Co. (Steel & Cast Steel), Wil-
 liamsport, Pa.
 Union Drop Forge Co., Chicago, Ill.
 Warwood Tool Co., Wheeling, W. Va.

Crucible Mfrs.

Baker & Co. (Platinum), Newark, N. J.
 Bartley, Jonathan, Crucible Co. (Graphite),
 Trenton, N. J.
 Berge, J. & H. (Importers), 95 John, New
 York
 Bridgeport Crucible Co. (Black Lead), Bridge-
 port, Conn.
 Denver Fire Clay Co. (Jobbers), 1742 Champ-
 a, Denver, Colo.
DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's"), Black Lead Crucibles & Retorts, Jer-
 sey City, N. J. (See adv. index & branch
 offices, end of book)
 Elmer & Amend (Importers), 205 3d av, New
 York
 Gautier, J. H. & Co. (Black Lead), Jersey City,
 N. J.
 Goebel, J. & Co. (Importers), 129 Maiden la,
 New York
 McCallough-Dalzell Crucible Co., 36th & A. V.,
 Pittsburg, Pa.
 Paige Retort & Crucible Co., Taunton, Mass.
 Ross-Tacony Crucible Co., Robbins & Milnor,
 Tacony, Phila., Pa.
 Seidel, Reuben B. (Inc.), 1334 Callowhill, Phila.,
 Pa.
 Taunton Crucible Co. (Pure Ceylon Graphite),
 Taunton, Mass.
 Taylor, Robert J. (Inc.), 1900 Callowhill, Phila.,
 Pa.
 Waterbury Crucible Co., Waterbury, Conn.
 Woods-Lloyd Co., Pittsburg, Pa.

Crucible Steel

(See Steel, Crucible)

*Crucibles (Brazing)

DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's"), Jersey City, N. J. (See adv. index
 & branch offices, end of book)

*Crucibles (Graphite)

DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch of-
 fices, end of book)
HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)

*Crucibles (Steel)

DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch offices,
 end of book)

*Crushed Steel for Polishing Granite, Etc.

HARRISON SUPPLY CO. ("Dia-
 mond"), 5 & 7 Dorchester ave. Extension,
 Boston, Mass. (See adv. index, end of book)

Crushed Stone

(See Stone, Crushed)

Crusher Parts

(See also Castings, Rock Crusher; also Stone
 Crusher Parts & Repairs)

American Brake Shoe & Foundry Co., Mahwah,
 N. J.
 Bethlehem Steel Co., South Bethlehem, Pa.
 Taylor Iron & Steel Co., High Bridge, N. J.

Crushers (Clay)

American Clay Machinery Co., Bucyrus, O.
 American Pulverizer Co., St. Louis, Mo.
 Anderson Foundry & Machine Works, Anderson,
 Ind.
 Arnold-Creager Co., New London, O.
 Bonnot Company, Canton, O.
 Bonnot Company, Canton, O.
 Brewer, H. & Co., Tecumseh, Mich.
 Brunner, Chas., Peru, Ill.
 Eagle Iron Works, Des Moines, Ia.

Fernholtz Brick Machinery Co., Boyle & Old
 Manchester avs, St. Louis, Mo.
 Fisher Engine Foundry & Machine Co., Pitts-
 burg, Pa.
 Freese, E. M. & Co., Gallion, O.
 Frost Mfg. Co., Galesburg, Ill.
 Ideal Fence Co., Adrian, Mich.
 Martin, Henry Brick Machine Mfg. Co., Lan-
 caster, Pa.

Nebel, M. A., 72 Grand av, Brooklyn, N. Y.
 Newell Mfg. Co., 149 B'way, New York
 Nolan, Madden & Co., Rushville, Ind.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Raymond Bros. Impact Pulverizer Co., 143 Laf-
 lin, Chicago, Ill.

Raymond, C. W. Co., Dayton, O.
 Schutz-O'Neill Co., Minneapolis, Minn.
 Scott Mfg. Co., St. Louis, Mo.

Stedman Foundry & Machine Works, Aurora,
 Ind.
 Stevenson & Co., Wellsville, O.

STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of book)

Taplin-Rice-Clerkin Co., Akron, O.
 Wallace Mfg. Co., Frankfort, Ind.

West Pulverizing Machine Co., 220 B'way, New
 York
 Williams Patent Crusher & Pulverizer Co., 2706
 N. B'way, St. Louis, Mo.

Crushers (Coal & Coke)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)

American Pulverizer Co., St. Louis, Mo.
BARTLETT, C. O. & SNOW CO. ("Tri-
 umph," Two & Four Roll), French st.,
 Cleveland, O. (See adv. index, end of book)

Connellsville Machine & Car Co., Connellsville,
 Pa.

Conveying Machinery Co., 120 Liberty, New
 York
 Excel Mfg. Co., Pottersville, N. J.

FAIRBANKS, MORSE & CO., Wabash av.
 & Eldredge pl., Chicago, Ill. (See adv.
 index & branch offices, end of book)

Hunt, C. W. Co., West New Brighton, S. I.,
 N. Y.

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

Keller, C. M., Columbus, Ind.

Link Belt Co., W. 39th cor. Stewart av., Chi-
 cago, Ill., & 299 B'way, New York

MEAD-MORRISON MFG. CO., Cam-
 bridge (Boston), Mass., & 11 B'way, New
 York. (See adv. index & branch offices, end
 of book)

Milholland, J. & J. B. Co., 718 5th av., Pitts-
 burg, Pa.

Mullen, Jno. & Son, Shamokin, Pa.
 Noye Mfg. Co., 50 Lakeview av, Buffalo,
 N. Y.

Pennsylvania Crusher Co. (Hammer, Rotary,
 etc.), Stephen Girard bldg, Phila., Pa.

Power & Mining Machinery Co., Cudahy, Wis.
 Schutz-O'Neill Co., Minneapolis, Minn.

SPROUT, WALDRON & CO. (Also Facing),
 Muncy, Pa. (See adv. index, end of book)

Stacey Mfg. Co., Elmwood Pl., Cincinnati, O.

Stedman's Foundry & Machine Works, Aurora,
 Ind.

STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of book)

Vulcan Iron Works, Wilkes-Barre, Pa.

Wagner-Palmors Mfg. Co., Fairmont, W. Va.

WEBSTER MFG. CO., 1075 W. 15th,
 Chicago, Ill., & 88 Reade, New York. (See
 adv. index & branch offices, end of book)

Crushers (Coke)

(See Crushers, Coal & Coke)

Crushers (Corn & Cob)

(See Mills, Corn & Cob)

*Crushers (Jaw)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)

Crushers (Spindle)

Bethlehem Steel Co., South Bethlehem, Pa.

Crushers (Stone)

(See Rock & Ore Crushers)

Cryolite

Pennsylvania Salt Mfg. Co., 115 Chestnut,
 Phila., Pa.

Cultivator Attachments

Empire Plow Co., Cleveland, O.
 Gale Mfg. Co., Albion, Mich.
 Hunt, Helm, Ferris & Co. ("Star"), Harvard,
 Ill.

Cultivators

American Plow Co. ("American" Steel, Rid-
 ing or Walking, Spring Tooth, etc.), Mad-
 ison, Wis.

Akron Cultivator Co. (Riding & Walking Pivot-
 Axle Automatic, also Walking), Akron, O.

Allbright, Jas. H. & Sons (Riding & Walking),
 Mufflingburg, Pa.

Allen, S. L. & Co., Phila., Pa.
 American Harrow Co. (Riding & Walking), De-
 troit, Mich.

American Plow Co., Madison, Wis.

Ames Plow Co., Boston, Mass.

Anderson Company (Disc Lister & Knife,
 Walking & Riding), St. Paul, Minn.

Arnolds, G. W. Son, Iona, Mich.

Atlanta Agricultural Works ("Atlanta"), At-
 lanta, Ga.

Avery, B. F. & Sons (Riding & Walking),
 Louisville, Ky.

Avery Co. (Riding & Walking, "Avery Dou-
 ble," "Doublet"), Peoria, Ill.

Babcock Mfg. Co. ("Otsego," Walking, One
 Horse), Leonardville, N. Y.

Bacon Mfg. Co. (Garden), Pontiac, Mich.

Bateman Mfg. Co. (Riding, Walking & Horse
 Hoe), Grenloch, N. J.

Belcher & Taylor Agl. Tool Co. (Prouts Hoeing
 Machine), Chicopee Falls, Mass.

Bement's, E. Sons (Riding & Walking), Lans-
 ing, Mich.

Benicia Agricultural Works ("Horners"), Be-
 nicia, Cal.

Blount, Henry F. (Walking & Riding), Evans-
 ville, Ind.

Bostwick, Alonzo & Son, Millington, Mich.

Bradley, David Mfg. Co. ("Dolphin," "New
 Bradley," "Bradley Vulcan," "Klondike,"
 "Common Sense," "Trojan," "Katy-Did,"
 "Cricket"), Bradley, Ill.

Bristol & Gale Co. (Hand), 110 Washington
 Boul., Chicago, Ill.

Brown, Geo. W. & Co. (Walking & Riding),
 Galesburg, Ill.

Brown-Manly Plow Co., Malta, O.

Brown Mfg. Co. (Riding & Walking), Zanes-
 ville, O.

Bucher & Gibbs Plow Co. (Walking One Horse,
 Spike Tooth, Spring Tooth, Five Tooth),
 Burton Handle Co. (Riding & Walking), Bur-
 ton, O.

Caledonia Bean Harvester Works, Caledonia,
 N. Y.

Case, J. I. Plow Works (Riding & Walking),
 Racine, Wis.

Castille Chilled Plow Co., Castille, N. Y.

Champion Drill Co., Avon, N. Y.

Children, E. & Sons (Badger & New Badger),
 Council Bluffs, Iowa

Childs, Chas. H. & Co., Utica, N. Y.

Clipper Chilled Plow Co., Elmira, N. Y.

Clipper Plow Co. ("Best," "Clipper"), De-
 fiance, O.

Clore's, Wm. Sons (Dixie), Rising Sun, Ind.

Collins Plow Co. ("Iowa" Riding & Walking
 Combined), Quincy, Ill.

Cutaway Harrow Co., Higganum, Conn.

Deere & Co. (Sugar Cane, also Walking, Riding
 & Walking & Riding Combined), Moline, Ill.

Deere & Mansur Co. (Disc), Moline, Ill.

Dempster Mill Mfg. Co., Beatrice, Neb.

Deuscher, H. P. Co. (Ideal), Hamilton, O.

Diats, Hiram Jr. (Kuzler), Pittston, N. J.

Donaldson Bros. ("Steel King"), Mt. Clemens,
 Mich.

Eagle Mfg. Co., Kansas City, Mo.

Emerson Mfg. Co. ("Emerson," "Diamond,"
 "Standard"), Rockford, Ill.

Empire Plow Co. ("Empire"), Cleveland, O.

Eureka Mower Co. (Spike, Spring & Shovel
 Tooth, Riding, etc.), Utica, N. Y.

Farmers' Handy Wagon Co. (One or Two Row),
 Saginaw, Mich.

Farquhar, A. B. Co., Ltd. (Riding & Walking),
 York, Pa.

Fort Madison Plow Co., Fort Madison, Ia.

Fountain City Drill Co. (Riding Corn), La
 Crosse, Wis.

Fuller & Johnson Mfg. Co., Madison, Wis.

Gale Mfg. Co. (Riding or Walking, also Walk-
 ing Tongue & Tongueless, also Fine Tooth,
 etc.), Albion, Mich.

Genung, C. W. (Disc & Single & Double Wheel),
 Gesley Mfg. Co., Beloit, Wis.

Gowanda Agl. Works (Horse Hoe, etc.), Go-
 wanda, N. Y.

Grand Detour Plow Co. ("Uncle Sam," Walk-
 ing & Riding), Dixon, Ill.

Greenville Implement Co. (Star Shovel), Greenville, Mich.
 Hartford Plow Works (Rowell), Hartford, Wis.
 Hartig-Becker Plow Co. (Up-to-Date), Evansville, Ind.
 Hartman Mfg. Co. (Riding & Walking), Vincennes, Ind.
 Hayes Pump & Planter Co. (Riding & Walking), Galva, Ill.
 Hench & Dromgold Co., Inc. (Riding & Walking), York, Pa.
 Hoke Mfg. Co. (Riding & Walking), South Bend, Ind.
 Howell, B. R. Co. (Champion Riding), Minneapolis, Minn.
 Howland Mfg. Co. (Little Giant Walking), Pontiac, Mich.
 International Harvester Co. of America (Horse, Hoe, Steel, etc.), 7 Monroe, Chicago, Ill.; Osborne Plant, Auburn, N. Y.
 Janesville Machine Co., Janesville, Wis.
 Keller Mfg. Co. (New Departure), Sank Center, Minn.
 Keystone Farm Machine Co. (Riding & Walking), York, Pa.
 Killefer-Griffith Mfg. Co., Los Angeles, Cal.
 King & Hamilton Co. ("Little Boy"), Ottawa, Ill.
 Kingman Plow Co. (Walking & Riding), Peoria, Ill.
 La Crosse Plow Co. (Riding & Walking), La Crosse, Wis.
 Lean, Roderick Mfg. Co. (Riding), Mansfield, Ohio
 Lehr Agl. Co. (Riding & Walking), Fremont, Ohio
 Long & Allstatter Co. (Riding, Walking, Tongue & Tongueless), Hamilton, O.
 Lovejoy Co., Cambridge, N. Y.
 McDonald, Wm., Lapeer, Mich.
 Marva Mfg. Co., Marva, Ill.
 Mason, F. C. & Co. ("Banner," Hand, etc.), St. Johns, Mich.
 Mead Hay Press Co., Pueblo, Col.
 Messinger Mfg. Co. (Steel King Walking), Tattamy, Pa.
 Moline Plow Co. (Tongue Walking, Tongueless Walking, Riding, Combined Walking & Riding, Disc, Lister, etc.), Moline, Ill.
 Monmouth Plow Co. (Riding, Combined, Walking & Tongueless), Monmouth, Ill.
 Moore Plow & Implement Co. (Beet & Garden), Moroa Mfg. Co., Moroa, Ill. Greenville, Mich.
 Munnsville Plow Co. (Wheel, Harrow, Lever, etc.), Munnsville, N. Y.
 National Drill Co., Cambridge City, Ind.
 Northwestern Steel & Iron Works, Eau Claire, Wis.
 Ohio Cultivator Co. (Sulky & Walking), Bellevue, O.
 Ohio Bake Co. (Riding), Dayton, O.
 Osborne, D. M. & Co. Horse, Hoe, Steel, etc.), Auburn, N. Y.
 Oyler Plow Co., Akron, O.
 Parlin & Orendorff Co. (Riding, Walking, Disc & One Horse), Canton, Ill.
 Pattee Plow Co., Monmouth, Ill.
 Pekin Plow Co., Pekin, Ill.
 Peru Plow & Wheel Co. (Riding & Walking), Peru, Ill.
 Racine-Sattley Co. (Walking, Riding & Combined), Springfield, Ill., & Racine, Wis.
 Reed Mfg. Co., Kalamazoo, Mich.
 Richmond Plow Co., Richmond, Ind.
 Rock Island Plow Co. (Riding & Walking), Rock Island, Ill.
 Rockford Implement Co. ("Thompson," Riding & Combined), Rockford, Ill.
 Rockford Mfg. Co. ("Dewey," "Ellwood," "Tiger," "Hiram," "Rockford," "Norman, Jr."), Rockford, Ill.
 Rockford Well Drill Co., Rockford, Ill.
 Rowell, I. B. Co. (Sulky Corn), Menomonee Falls, Wis.
 Rude Bros. Mfg. Co. (Riding & Walking), Liberty, Ind.
 St. Joseph Plow Co. (Riding & Walking), St. Joseph, Mo.
 Sechler, D. M. Carriage Co., Moline, Ill.
 Smith, D. B. & Co. (Walking), Utica, N. Y.
 South Bend Chilled Plow Co., South Bend, Ind.
 Southern Agricultural Works, Atlanta, Ga.
 Southern Plow Co., Columbus, Ga.
 Spangler Mfg. Co., York, Pa.
 Star Mfg. Co. (Walking), Carpentersville, Ill.
 Sparta Plow Works, Sparta, Ill.
 Standard Harrow Co., Utica, N. Y.
 Swanson Mfg. Co., Blue Rapids, Kan.
 Swanson, T. Mfg. Co. (for Listed Corn, etc.), Shenandoah, Ia.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Tait, F. B. Mfg. Co., Decatur, Ill.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co. (Riding & Walking), Toledo, Ohio

Tower, J. D. & Sons Co. (Walking & Riding), Mendota, Ill.
 Towers & Sullivan Mfg. Co. ("Little Joe," "Eureka"), Rome, Ga.
 U. S. Implement Co., Canton, O.
 Ulrich, F. W., Rock Falls, Ill.
 Van Brunt Mfg. Co., Horicon, Wis.
 Watkins Chilled Plow Co., Watkins, N. Y.
 West & Townsend, Martinsville, O.
 Western Mfg. Co., Kansas City, Mo.
 Whitaker Mfg. Co., 30 W Monroe, Chicago, Ill.
 White, E. B. & Bro., Norfolk, Va.
WHITMAN & BARNES MFG. CO.
 (Riding & Walking), Chicago, Ill. (See adv. index & branch offices, end of book)
 Wood Bros. Steel Self Feeder Co., Des Moines, Iowa

Cultivators (Bean & Corn)

Blue Mfg. Co., Fostoria, O.
 Moline Plow Co. ("Michigan"), Moline, Ill.
 Wood, W. A., Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

Cultivators (Beet)

Allen, S. L. & Co. ("Planet Jr." 2 & 4 row), 1107 Market, Phila., Pa.
 Bateman Mfg. Co. ("Iron Age" 2 row), Greulich, N. J.
 Bucher & Gibbs Plow Co., Canton, O.
 Deere & Mansur Co. ("Empire" 2 & 4 row), Moline, Ill.
 Empire Plow Co. ("Empire" 2 row), Cleveland, Ohio
 Gale Mfg. Co. ("Gale" 2 row), Albion, Mich.
 Moline Plow Co. ("Moline" 2 row Walking, & 4 row Riding), Moline, Ill.
 Moore Plow & Implement Co. ("Moore" 2 row), Greenville, Mich.
 Ohio Cultivator Co. ("Ohio" 2 row), Bellevue, Ohio
 Parlin & Orendorff Co. ("Canton" 2 row), Canton, Ill.
 Rowell, I. B. Co. ("Rowell" 2 row), Menomonee Falls, Wis.

Cultivators (Garden)

Allen, S. L. & Co. ("Planet Jr."), 1107 Market, Phila., Pa.
 American Fork & Hoe Co. ("Evans" & "Victor" Hand Cultivators), Cleveland, O.
 Ames Plow Co. ("New Universal" Wheel), Boston, Mass.
 Anderson, J. H. & Co. ("Anderson Boss" Hand), 2707 Lafayette av., St. Louis, Mo.
 Avery, B. F. & Sons ("Avery" Wheel, Hoe, Plow & Weeder), Louisville, Ky.
 Bacon Mfg. Co. ("Bacon" Wheel), Pontiac, Mich.
 Bateman Mfg. Co. ("Iron Age" Wheel, Hoe, Plow, Weeder), Grenloch, N. J.
 Black, Geo. H. ("Queen") Buchanan, Mich.
 Brinly-Hardy Co. ("Columbia" Wheel, Hoe, Plow & Weeder), Louisville, Ky.
 Brown-Manley Plow Co. ("Rival" Wheel, Hoe, Plow & Weeder), Malta, O.
 Coffeyville Implement & Mfg. Co. ("Banner" Disc), Coffeyville, Kan.
 Crescent Forge & Steel Co. (Wheel), Havana, Ill.
 Deere & Mansur Co. ("McGee" Wheel, Hoe, Plow & Weeder), Moline, Ill.
 Deuscher, H. P. Co. ("Ideal" Wheel, Hoe, Plow & Weeder), Hamilton, O.
 Gale Mfg. Co., Albion, Mich.
 Gennung, C. W. ("Iron King" Wheel), Madison, O.
 Greenville Implement Co. ("Banner," "Garden King," "Peerless" Wheel), Greenville, Mich.
 Mason, F. C. & Co. ("Banner" Wheel), St. Johns, Mich.
 Moline Garden Implement Co. ("Mobile" Garden), Mt. Gilead, O.
 Moore Plow & Implement Co. ("Moore's" Wheel), Greenville, Mich.
 Norcross, C. S. & Sons ("Norcross" Hand), Bushnell, Ill.
 Ohio Cultivator Co. ("Climax," "Dexter" Wheel), Bellevue, O.
 Parlin & Orendorff Co. ("Canton" Wheel, Hoe, Plow & Weeder), Canton, Ill.
 Peru Plow & Wheel Co. ("Clipper" Wheel), Peru, Ill.
 Prairie Mfg. Co. ("Man Weight" Wheel, Hoe, Plow & Weeder), Indianapolis, Ind.
 Schaible Mfg. Co. ("Lou Dillon" Wheel), Elyria, O.
 Tenney & Sikking (Inc.) ("Decatur" Wheel), Decatur, Ill.

Thornburgh Mfg. Co. ("Toledo," "Garden King," Wheel, Hoe, Plow & Weeder), Bowling Green, O.
 Weyburn Co. ("Scott's" Wheel), Rockford, Ill.
 Whitaker Mfg. Co., 30 W Monroe, Chicago, Ill.
WHITMAN & BARNES MFG. CO.
 ("Diamond" Wheel), West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Cultivators (Onion)

(See also Drills, Onion)

Allen, S. L. & Co. ("Planet Jr." Wheel Hand), Philadelphia, Pa.
 Bacon Mfg. Co. ("Bacon," Wheel Hand), Pontiac, Mich.
 Genung, C. W. ("Iron King," Wheel Hand), Madison, Ohio

Culverts (Road)

AMERICAN ROLLING MILL CO.
 (Corrugated, Metal, Made From American Ingot Iron), Middletown, O. (See adv. index, end of book)
 Atlas Metal Works (Corrugated Metal), Dallas, Tex.
 Bark River Bridge & Culvert Co., Bark River, Mich.
 Beach Mfg. Co. (Cast Iron, Steel), Charlotte, Mich.
 Canton Culvert Co. ("Acme" Corrugated Metal, Made From Bloom Iron), Canton, Ohio
 Champion Bridge Co. of New Jersey (Iron), Wilmington, O.
 Climax Road Machine Co. (Cast Iron, Steel), Marathon, N. Y.
 Feltz & East Co. (Cast Iron Interlocking), Lima, Ohio
 Harry, O. K., Steel Co. (Steel), St. Louis, Missouri
 Harry, O. K., Steel Works (Corrugated Steel), Dallas, Tex.
 Heller-Aller Co. (Galvanized Steel), Napoleon, Ohio
 Illinois Corrugated Metal Co., Bloomington, Illinois
 Isham-Miller Co. (Metal Sectional), Butter-nut, Mich.
 Kelly Foundry & Machine Co. (Galvanized Steel), Goshen, Ind.
 Kelly Mfg. Co. (Steel), Waterloo, Iowa
 Klauer Mfg. Co. (Corrugated, Galvanized), Dubuque, Ia.
 Munnsville Plow Co. ("Beach" Triple Expansion & "Munnsville" Improved), Munnsville, N. Y.
 North Dakota Metal Culvert Co. (Steel), Fargo, N. D.
 Northeast Metal Culvert Co., Nashau, N. H.
 Ohio Corrugated Culvert & Bridge Co., Middletown, Ohio
 Penna. Metal Culvert Co. (Corrugated Metal), Warren, Pa.
 Texas Tank & Culvert Co., Fort Worth, Tex.
 Warsaw-Wilkinson Co. (Steel), Warsaw, N.Y.
 Winamac Bridge Co. (Iron), Winamac, Ind.

Cupola Linings or Blocks

Ashland Fire Brick Co., Ashland, Ky.
 Berry, Jas. E., Woodbridge, N. J.
 Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.
 Buckeye Fire Clay Co., Uhrichsville, O.
 Chicago Retort & Fire Brick Co., 45th & Clark, Chicago, Ill.
 Columbia Fire Brick Co., Canton, O.
 Cooper, Jno., 396 Oakland, Brooklyn, N. Y.
 Denny-Renton Clay & Coal Co., Seattle, Wash.
 Denver Fire Clay Co., 1742 Champa, Denver, Colo.
 Didier-March Co., 50 Church, New York; Works: Keasby, N. J.
 Evens & Howard Fire Brick Co., 920 Market, St. Louis, Mo.
FISKE & COMPANY (Inc.), 25 Arch,
 Boston, Mass., & Flat Iron bldg, New York. (See adv. index, end of book)
 Garfield Fire Clay Co., Robinson, Pa.
 Gantier, J. H. & Co., Jersey City, N. J.
 Gladding, McBean & Co., San Francisco, Cal.
 Works: Lincoln, Cal.
 Harbison-Walker Refractories Co., Farmers B'k bldg, Pittsburg, Pa., & 1133 B'way, New York
HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)
 Howard Co., New Haven, Conn.
 Kier Fire Brick Co., 341 6th av, Pittsburg, Pa.
 Laclede-Christy Clay Products Co., St. Louis, Mo.

Lincoln Fire Brick & Shape Co., Farmers' Bldg., Pittsburgh, Pa. Works, Bolivar, Pa.
Louisville & Portsmouth Fire Brick Co., Portsmouth, O.
McLeod & Henry Co. (Steel Mixture), Troy, N. Y.

MAURER, HENRY & SON, 420 E
23d, New York; Penna. bldg. Phila., Pa.
Works, Maurer, N. J. (See adv. Front Inside Cover)

MISSISSIPPI GLASS CO., 115 B'way,
New York. (See adv. index & branch offices, end of book)

Mutton Hollow Fire Brick Co., Woodbridge, N. J.

NATIONAL FIRE PROOFING CO.,
Fulton bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

National Pyrogranit Co., 17 Battery pl., New York. Works: South River, N. J.

Ohio Fire Brick Co., Oak Hill, O.

Ostrander Fire Brick Co., Troy, N. Y., & Ostrander, N. J.

Parker-Russell Mining & Mfg. Co., St. Louis, Mo.

Penn. Wm., Silica Works (Mica, Schist Rock), William Penn P. O., Phila., Pa.

Presbrey Stove Lining Co., Taunton, Mass.

Remmey, Richard Sons Co., 2637 E Cumberland, Phila., Pa.

St. Louis Vitrified & Fire Brick Co., 105 N. 7th, St. Louis, Mo.

Southern Fire Brick & Clay Co., 138 Wash'n, Chicago, Ill. Works, Mount Silica, Ind.

Superior Fire Lining Co., Trenton, N. J.

Tygart Fire Brick Co., Fullerton, Ky.

Valentine, M. D. & Bro. Co., Woodbridge, N. J.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)

*Cupola Wash

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

Cupolas (Foundry)

Advance Radiator Co., Syracuse, Ind.
Bigelow Co., New Haven, Conn.
Byram & Co. ("The Colliau"), 435 Guoin, Detroit, Mich.

Calumet Engineering Works ("Calumet"), Harvey, Ill.

Casey-Hedges Co., Chattanooga, Tenn.
Connelly, D., Boiler Co., Cleveland, O.

Detroit Foundry Supply Co. ("Crandall"), Detroit, Mich.

Etting, E. J. ("E. J. E."), Land Title bldg., Philadelphia, Pa.

Hay's, Samuel W. Sons, Pittsburg, Pa.

McNeill, Jas. & Bro. Co., 29th & A. V. Ry., Pittsburgh, Pa.
Means & Fulton Iron Works, Birmingham, Ala.
Meehan Boiler & Construction Co., Lowell, O.

NORTHERN ENGINEERING WORKS,
Detroit, Mich. (See adv. index & branch offices, end of book)

Obermayer, S. Co., 647 Evans, Cincinnati, O.

Paxson, J. W. Co. ("The Paxson-Colliau"), 1021 N. Delaware av., Phila., Pa.

Riter-Conley Co., 59 Water, Pittsburgh, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

SMITH, J. D. FOUNDRY SUPPLY CO.,
1846 Scranton rd., N W, Cleveland, O. (See adv. index, end of book)

Sotter Bros., Pottstown, Pa.

Stewart, C. Boiler Works, Worcester, Mass.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)

*Cupolas ("The Newton")

NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Cups (Elevator)

Clark, W. J., Co., Salem, O.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Nordyke & Marmon Co. (Tin & Sheet Iron), Indianapolis, Ind.

Taylor Iron & Steel Co., High Bridge, N. J.

Cups (Force, Rubber)

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Hodgman Rubber Co., 806 B'way, New York

Knapp Mfg. Co., 20 Warren, New York

Morgan & Wright (Inc.), (Plumbers'), Detroit, Mich.

National India Rubber Co., Bristol, R. I.

PENNSYLVANIA RUBBER CO., Jean-
nette, Pa. (See adv. index & branch offices, end of book)

Cups (Leather)

Houghton, E. F. & Co. ("Vic") Hydraulic, etc.), 240 Somerset, Phila., Pa.

Page Belting Co., Concord, N. H.

Schieren, Chas. A. & Co., 30 Ferry, New York

Cups (Plumbers' Soil)

BERNZ, OTTO, S 13th & S Orange av.,
Newark, N. J. (See adv. index, end of book)

Johnson, Wm. (Hedenberg Works), Newark, N. J.

*Cups (Priming)

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Curbs (Valve)

American District Steam Co. (Cast Iron for Steam Underground Work), Lockport, N. Y.

*Curbs (Well, Wyckoff)

WYCKOFF, A. & SON CO., Elmira,
New York. (See adv. index, end of book)

Currycombs

Arcade Mfg. Co. ("New Idea," etc.), Freeport, Decker Mfg. Co. ("Arc Spring"), Keokuk, Ia.

Jacks-Evans Mfg. Co., St. Louis, Mo.

Kohler, F. E. & Co. ("Kohler," All Steel or Brass), Canton, O.

New York Stamping Co. ("Reform"), N 11th & Berry, Brooklyn, N. Y.

NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv. index, end of book)

Phoenix Hardware Mfg. Co., Homer, N. Y.

Queen Mfg. Co., Webster City, Ia.

Southington Cutlery Co., Southington, Conn.

Sundries Mfg. Co., South Bend, Ind.

Union Furnace Mfg. Co., Union Furnace, Pa.

Curtains (Car)

(See Car Curtains & Materials)

*Curtains (Locomotive Cab)

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end of book)

Curtains (Rubber, Bath)

Empire Rubber Co., 115 Worth, New York

Goodyear India Rubber Glove Mfg. Co., 503 B'way, New York

Goodyear Rubber Co., 787 B'way, New York

Hodgman Rubber Co., 593 B'way, New York

*Curtains (Steel Rolling)

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end of book)

*Cushions (Billiard & Pool Table)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass. (See adv. index & branch offices, end of book)

PENNSYLVANIA RUBBER CO., Jean-
nette, Pa. (See adv. index & branch offices, end of book)

Cushions (Telephone Receiver)

Holtzer-Cabot Elec. Co., Brookline, Mass.

Huron Rubber Co., Cleveland, O.

Cuspidors

Aldrich Mfg. Co. (Brass), Buffalo, N. Y.

Atlantic Stamping Co. ("Atlantic," Galvanized Iron), Rochester, N. Y.

Bethlehem Foundry & Machine Co. (Cast Iron), Front, South Bethlehem, Pa.

Bridgeport Brass Co. (Brass & Self Righting), Bridgeport, Conn.

Buffalo Mfg. Co. (Brass, etc.), Buffalo, N. Y.

Central Stamping Co. (Cast Iron, Enameled Inside, Brass, Nickel-Plated & Nickel-Plated Tin), 174 Fulton, New York

Dayton Supply Co. (Brass, Nickel Self-Righting), Dayton, O.

Donaldson Bros. (Cast Iron), Mount Clemens, Mich.

Dover Stamping & Mfg. Co. (Cast Iron, Porcelain-Lined, Self-Righting; also Tin, Various Colors), Cambridge, Mass.

Excelsior Brass Works, Reading, Pa.

Freeport Novelty Co. ("Nodonta"), Freeport, Ill.

Geuder & Paeschke & Frey Co. (Japanned & Enameled), Milwaukee, Wis.

Goodrich, B. F. Co. (Rubber), Akron, O.

Goodyear Rubber Co. (Rubber), 787 B'way, New York

Gould-Mersereau Co. (Brass), 43 E 19th New York

Illinois Pure Aluminum Co. (Aluminum), Le-mont, Ill.

Ireland & Matthews Mfg. Co. (Brass & Nickel Self-Righting), Detroit, Mich.

Lalance & Grosjean Mfg. Co. (Enameled), 299 B'way, New York

McKenna Bros. Brass Co. (Brass, etc.), Pitts-burg, Pa.

Manhattan Brass Co. (Brass), 358 E 28th, New York

Manning, Bowman & Co. (Brass, Nickeled, Enamel & Tin), Meriden, Conn.

Marietta Hollow Ware & Enameling Co. (Enameled), Marietta, Pa.

Midland Metal Co. (Brass, Bronze & Plated), 21st & Jefferson, Philadelphia, Pa.

New Castle Stamping Co. (Enameled Steel), New Castle, Pa.

New England Enameling Co., Middletown, Conn.

Rochester Stamping Co., Rochester, N. Y.

Rostand Mfg. Co. (Brass, German Silver, Nickel & Bronze), Milford, Conn.

St. Louis Brass Mfg. Co. (Brass), St. Louis, Missouri

Shepard, Sidney & Co. (Aluminum, Buffalo, N. Y., & 21 Cliff, New York

Sweeney, W. H. Mfg. Co. (Nickeled, Brass & Tin & Self-Righting, etc.), Brooklyn, N. Y.

Thompson, C. C. Pottery Co. (Porcelain), East Liverpool, O.

United Indurated Fibre Co. of N. J. ("Fibrotta" Indurated Fibre), Lockport, N. Y.

Vogel, Wm. & Bros. (Nickel Plated Steel & Copper with Removable Hopper), 37 S 9th, Brooklyn, N. Y.

Vollrath, J. J. Mfg. Co. (Enameled Iron), Sheboygan, Wis.

Wagner Mfg. Co. (Aluminum), Sidney, O.

Weller Hardware & Foundry Co., Horseheads, N. Y.

NEWTON CUPOLA

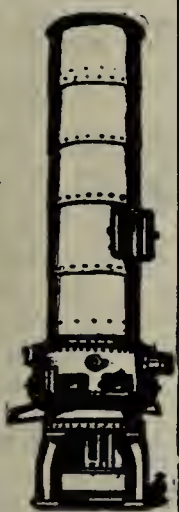
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Honhorst, Joseph, Co., Cincinnati, O.
McCormack, J. S. Co., 25th & A. V. Ry.,
Pittsburg, Pa.

Cutlery Mfrs.

Acme Shear Co. (Shears, Scissors, etc.), Bridgeport, Conn.
 American Cutlery Co. (Table Cutlery), 193 Mather, Chicago, Ill.
 American Shear & Knife Co. (Pocket Cutlery, Shears, etc.), Hotchkissville, Conn.
 American Silver Co. (Table Cutlery), Bristol, Conn.
AMERICAN TAP & DIE CO. (Carvers,
 Table Knives, Silver Plated, etc.), Greenfield, Mass. (See adv. index, end of book)
 Associated Silver Co. ("Yourex" Specialties), 174 E Lake, Chicago, Ill.
 Bannister, A. F. & Co. (Pocket, etc.), Newark, N. J.
 Blson Mfg. Co., Little Valley, N. Y.
 Camillus Cutlery Co., Camillus, N. Y.
 Canton Cutlery Co. ("C. C. Co." Pocket Knives, High Grade, Transparent Handle Pocket Knives, Razors, Shoe Buttoners, Ink Erasers, etc.), Canton, O.
 Carrier Cutlery Co., Elmira, N. Y.
 Case Bros. Cutlery Co., Kane, Pa.
 Cattaraugus Cutlery Co. (Pocket), Little Valley, N. Y.
 Challenge Cutlery Corporation (Pocket Knives & Razors), Bridgeport, Conn.
 Chatillon, Jno. & Sons (Pocket Knives, "Fulton" Brand), 85 Cliff, New York
 Christy Knife Co. (Bread, Cake, Ham & Kitchen Knives, Druggists' Spatulas & Lemon Slicers), Fremont, O.
 Clauss Shear Co., Fremont, O.
 Clayton Bros., Bristol, Conn.
 Clement Mfg. Co., Northampton, Mass.
 Clyde Cutlery Co. (Butcher, Bread & Kitchen Knives, etc.), Clyde, O.
 Columbian Cutlery Co. (Butcher & Carving Knives, etc.), Reading, Pa.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Divine, Dwight & Son (Pocket & Fine Pen Knives), (Trade Mark, "Ulster Knife Co." & "Ellenville Knife Co."), Ellenville, N. Y.
 Eldred Cutlery Co., Eldred, Pa.
 Electric Cutlery Co. (Pocket Cutlery, Razors, Shears, etc.), 25 Hackett, Newark, N. J.
 Emplre Knife Co. (Pocket Cutlery), Winsted, Conn.
 Foster Bros. & Chatillon Co. (Pocket, Kitchen & Butchers' Cutlery), Fulton, N. Y.
 Fremont Crescent Metal & Mfg. Co., Fremont, Ohio
 Geneva Cutlery Co. ("Razors"), Geneva, N. Y.
 Goodell Co. (Carving & Table Cutlery), Antrim, N. H.
 Harrington Cutlery Co. ("Dexter," Butcher, Cheese, Shoe, Bread & Kitchen, etc.), Southbridge, Mass.
 Havell Mfg. Co. (Metal Goods), Newark, N. J.
 Heinrich's, R. Sons Co. (Shears, etc.), Newark, N. J.
 Holley Mfg. Co. (Pocket), Lakeville, Conn.
 Humason & Beckley Mfg. Co. (Pocket), New Britain, Conn.
 International Cutlery Co., Fremont, O.
 International Silver Co. (Silver Plated, etc.), Meriden, Conn.
 Jackson Shear & Razor Co., Fremont, O.
 Kastor, A. & Bros., 109 Duane, New York
 Kern, Geo. W. Razor Mfg. Co. (Razors, Straps & Hones), Little Valley, N. Y.
 Klmhall, C. J. Co. (Kitchen, Butchers', Shoe & Drawing Knives, etc.), Bennington, N. H.
 Klein, M. & Bro. ("M.-K. & B." Sun Table & Pocket), Bridgeport, Conn.
 Knickerbocker Hardware Co. (Knives, etc.), 299 B'way, New York. Works: Newark, N. J.
 Lamson & Goodnow Mfg. Co. (Table Cutlery, Carvers, Butchers', Painters' & Druggists' Knives), Shelbourne Falls, Mass.
 Landers, Frary & Clark (Pearl, Ivory & Celluloid Handle Table Cutlery, Carving Sets, etc.), New Britain, Conn.
 Lethrop, M. A. Mfg. Co. (Bread Knives, etc.), Sharon, Mass.
 Marble Safety Axe Co. (Pocket & Hunting Knives, Pocket Axes, etc.), Gladstone, Michigan
 Meriden Cutlery Co. (Cheese, Bread, etc.), Meriden, Conn.
 Miller Bros. Cutlery Co. (Pocket, etc.), Meriden, Conn.
 Morris Cutlery Co., Morris Ill.
 Napanoch Knife Co. (Pocket), Napanoch, N. Y.
 National Cutlery Co. (Shears, Scissors, etc.), Westmoreland & Boudinot, Phila., Pa.
 New York Knife Co. (Pocket Knives & Table Cutlery), 45 Murray, New York. Works: Walden, N. Y.
 National Cutlery Co., Detroit, Mich.
 Northampton Cutlery Co. (Table Cutlery), Northampton, Mass.

Northfield Knife Co. (Pocket Cutlery, Shears, etc.), Northfield, Conn.
 Novelty Cutlery Co. (Pocket Knives, Razors, Folding Scissors, Ink Erasers, Dirk Knives, Letter Openers, Shoe Buttoners, Scalpel Lances, Souvenir Knives, etc.), Canton, O.
 Ontario Knife Co. (Also Tools), Franklinville, N. Y.
 Philadelphia Novelty Mfg. Co. (Cutlery Novelties), N 13th & Noble, Phila., Pa.
 Robeson Cutlery Co., (Pocket, etc.), Rochester, N. Y.
 Rogers, Wm. A. (Ltd.), Northampton, Mass.
 Ross, Jos., Jr., & Co. (Corn Knives, Ink Erasers, etc.), Newark, N. J.
 Russell, Jno. Cutlery Co. (Carvers, Table Cutlery, etc.), Turners Falls, Mass.
 Schatt & Morgan Cutlery Co. (Pocket Knives, Razors & Shears), Titusville, Pa.
 Schmid, Jno. M. & Son, Providence, R. I.
 Schnefel Bros., 51 4th, Newark, N. J.
 Silver Plate Cutlery Co. (Electro Silver Plated Table Cutlery), Derby, Conn.
 Smith & Hemmenway Co. (Also Importers), 108 Duane, New York
 Sperry & Alexander (Also Importers), 300 B'way, New York
 Tack Mfg. Co. (Shoe & Banana Knives, etc.), Brockton, Mass.
 Valley Forge Cutlery Co., Newark, N. J.
 Walden Knife Co. (Press-Button Pocket Knives), Walden, N. Y.
 Wallace, R. & Sons Mfg. Co. (Silver Plated Table Cutlery, etc.), Wallingford, Conn.
 Washington Cutlery Co., Watertown, Wis.
 Waterville Cutlery Co. (Shears, etc.), Waterville, Conn.
 Williams Bros. Mfg. Co. (Silver Plated Table Cutlery, etc.), Nantux, Conn.
 Wiss, J. & Sons Co. (Shears, Scissors, Razors, etc.), Newark, N. J.
 Woodworth Knife Works, Nunda, N. Y.
 Wyoming Cutlery Co., Wilkes-Barre, Pa.

Cut-Outs (Arc Light)

Abbott Mfg. Co., Cleveland, O.
 Bernard, E. G. Co. (Powers"), Troy, N. Y.
 Brady, T. H., New Britain, Conn.
 Bryant Electric Co. ("Bryant-Cleveland"), Bridgeport, Conn.
 Fort Wayne Electric Works ("Wood"), Fort Wayne, Ind.

GENERAL ELECTRIC CO., Schenectady,
 N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 High Tension Electrical Specialty Co., Newton, Mass.
 Lundin Electric & Machine Co., Boston, Mass.
 Philadelphia Electrical & Mfg. Co., 1234 N 31st, Phila., Pa.
 Wurback, Wm. Electric Mfg. Co., St. Louis, Mo.

Cut-Outs (Battery)

Boston Electric Co., Boston, Mass.
 Electric Goods Mfg. Co. (Automatic Sectional), Boston, Mass.
 Partrick, Carter & Wilkins Co., 22d & Wood, Phila., Pa.
 Syracuse Electric Co., Syracuse, N. Y.
 Voltamp Elec. Mfg. Co., Baltimore, Md.

Cut-Outs (Incandescent)

(Rosettes & Branch Blocks)

Bryant Electric Co. ("K-W"), Bridgeport, Conn.
 Connecticut Elec. Mfg. Co., Bantam, Conn.
 Crouse, Hinds Co. ("Norbitt"), Syracuse, N. Y.
 Davis, M. & Sons (Incandescent), Salem, O.
 Elm City Engineering Co. ("H. & M." Branch Blocks Only), New Haven, Conn.
 Empire Elec. Mfg. Co., Plainville, Conn.
 Foote, Pierson & Co. (Telephone Storage Battery), 160 Duane, New York
 Freeman, E. H. Elec. Co., Trenton, N. J.
GENERAL ELECTRIC CO. (Arc & Incandescent), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Gilmore Electric Co., S. B., Boston, Mass.
 Gleason, E. P. Mfg. Co. (Incandescent), 37 Murray, New York
 Hart Mfg. Co. ("Hartford"), Hartford, Conn.
 Heineman, G. M. & Co., 500 Girard av, Phila., Pa.
 Holtzer-Cabot Electric Co. (Battery, etc.), Brookline, Mass.
 Ideal Switch Co., Plainville, Conn.
 Jones & Gross Elec. Co., 62 Vesey, New York
 Jordan Bros. (Splice Protectors Only), 74 Beekman, New York

Knowles, Chas. S. ("K. P.", "Moffett"), Boston, Mass.
 Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
 Marshall Electric Co. ("M. S."), Boston, Mass.
 Mutual Elec. & Machine Co. ("Mutual"), Wheeling, W. Va.
 Palste, H. T. Co. ("Shaffer," "K. W.," "P. K.," "Taplets"), Arch & 32d, Phila., Pa.
 Pass & Seymour ("Little Gem"), Solvay, N. Y.
 Perkins Electrical Switch & Mfg. Co. ("Thomas"), Bridgeport, Conn.
 Peru Electric Mfg. Co. ("National"), Peru, Ind.
 Tregoning Elec. Mfg. Co., Cleveland, O.
 Trumbull Electric Mfg. Co. ("Kappa"), Plainville, Conn.
 Weber Electric Co. (Henry D. Sears, Gen'l Sales Agent), 131 State, Boston, Mass.
WESTINGHOUSE ELECTRIC & MFG. Co. (Incandescent, Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Worcester Electric Mfg. Co., Worcester, Mass.
 Yost Elec. Mfg. Co., Toledo, O.

Cut-Outs (Telephone)

American Electric Fuse Co., Muskegon, Mich.
 Sterling Electric Co., Lafayette, Ind.

Cut-Outs (Transformer)

D & W FUSE CO. (Entrance, Railway Transformer), Providence, R. I. (See adv. index, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Pass & Seymour, Solvay, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Cutters (Alfalfa & Clover)

Commercial Mfg. Co. ("Young America" Hand, Belt & Power), Cleveland, O.

Cutters (Angular)

Becker Milling Machine Co., Hyde Park, Massachusetts
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Clough, R. M., Tolland, Conn.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co. ("National"), Detroit, Mich.
 Pratt & Whitney Co., Hartford, Conn.
 Standard Tool Co., Central av & P. Ry., Cleveland, O.
 Surerus & Greenhill, 109 Racine av, Chicago, Ill.
 Union Twist Drill Co., Athol, Mass.

Cutters (Arc Lamp Carbon)

Hagstrom Bros. Mfg. Co., Lindsborg, Kans.
 Lundin Elec. & Machine Co., Boston, Mass.

Cutters (Axle)

Buffalo Forge Co., Buffalo, N. Y.
 Butterfield & Co., Derby Line, Vt.
 Holroyd & Co., Waterford, N. Y.
 Keller Mfg. Co. ("Keller"), Sauk Center, Minn.

Cutters (Belt)

(See Belt Cutting Machines)

Cutters (Boiler Tube)

(See Cutters, Tube)

Cutters (Bolt)

Acme Machinery Co., Cleveland, O.
 Box, Alfred, Co. (With Multiple Dies), 813 N Front, Phila., Pa.
 Boynton & Plummer (Hand & Power), Worcester, Mass.
 Brown, H. B. Co. ("Merriman"), East Hampton, Mass.
 Chambers Bros. Co. ("Chambers" Open Side), 52d below Lancaster av, Philadelphia, Pa.
 Dedrick & Harvey Machine Co., Baltimore, Md.
 Eilers, H. P. Mfg. Co., 26 S Water, Cleveland, Ohio

Foot-Burt Co., 4101 St. Clair av, N E,
Cleveland, O
Haberle & Graham (Becher Open Die Head),
South Bend, Ind

IRVING MFG. & TOOL CO. (J. F. McCoy Co. Prop.), 169 Chambers, New York.
(See adv. index, end of book)

Landis Machine Co., Waynesboro, Pa.
Mummert, Wolf & Dixon Co. ("Plurality"
Die Bolt), Hanover, Pa.

National Machinery Co., Tiffin, O.

New Haven Mfg. Co., New Haven, Conn.

Newton Machine Tool Works, 2347 Vine,
Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York

Pratt & Whitney Co. (Turret), Hartford, Conn.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)

Putnam Machine Co., Fitchburg, Mass.

Reece, E. F. Co., Greenfield, Mass.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila.,
Pa.

Way-Walker Machine Co., Lansing, Mich.

Webster & Perks Tool Co., Springfield, O.

WELLS BROS. CO. ("Little Giant,"
Bench), Greenfield, Mass. (See adv. in-
dex, end of book)

Wiley & Russell Mfg. Co. ("Green River" Hand
Bolt Cutter & Nut Tapper), Greenfield,
Mass.

Cutters (Bone)

Adams Steel & Wire Works, Joliet, Ill.

Frazer Bros. Co., Adams, N. Y.

Hobart Electric Mfg. Co. ("Hobart" Electric
Green Bone), Troy, O.

Humphrey & Sons, Joliet, Ill.

Mann, F. W. Co. (For Poultry Food), Milford,
Mass.

Standard Bone Cutter Co., Milford, Mass.

Stearns, E. C. & Co. (Power or Hand), Syra-
cuse, N. Y.

Wilson Bros. ("Crown"), Easton, Pa.

Wilson, I. N. & Son, Cazenovia, N. Y.

Cutters (Bread)

(See also Slicers)

Buffalo Specialty Co. (Lightning), Buffalo,
N. Y.

Cutters (Brick & Drain Tile)

Arnold-Creager Co., New London, O.

Bonnot Company (Revolving), Canton, O.

Brewer, H. & Co., Tecumseh, Mich.

Cox, Geo. S., East Liverpool, O.

Freese, E. M. & Co. (Automatic Brick), Gallon,
Ohio

Cutters (Button Hole)

Heinesch's, R. Sons Co., Newark, N. J.

Kraeuter & Co., 577 18th, Newark, N. J.

National Cutlery Co. ("National"), Westmore-
land & Boudinot, Phila., Pa.

Wiss, J. & Sons Co. ("Bauers"), Newark, N. J.

Cutters (Card)

(See Card Cutting Machines; For Page Number
Consult Index of Contents)

Cutters (Cast Iron Pipe)

Ellis-Ford Mfg. Co., Detroit, Mich.
Smith, A. P. Mfg Co., Newark, N. J.

Cutters (Cheese)

American Cheese Cutter Co., Anderson, Ind.

Computing Cheese Cutter Co., Anderson, Ind.

Standard Mfg. Co., Auburn, Ind.

Stortz, John, & Son (Revolving Table), 210
Vine, Phila., Pa.

Cutters (Cigar)

Bedortha, Lawrence L., Windsor, Conn.

Billings & Spencer Co., Hartford, Conn.

Bridgeport Hardware Mfg. Co., Bridgeport,
Conn

Brunhoff Mfg. Co. (Cutter & Lighter Com-
hined), Cincinnati, O.

Havell Mfg. Co., Newark, N. J.

National Selling Co., Allentown, Pa.

Taylor Mfg. Co., Hartford, Conn.

Cutters (Cloth)

(See Cutting Machines, Cloth)

Cutters (Clover)

Silver Mfg. Co. ("New Model"), Salem, O.

Stearns, E. C. & Co. ("New Model"), Syra-
cuse, N. Y.

Cutters (Cocoanut)

Hillyard & Co., 75 Fulton, New York

Cutters (Convex & Concave)

Becker Milling Machine Co., Hyde Park, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.

Clough, R. M., Tolland, Conn.

MORSE TWIST DRILL & MACHINE CO.,
New Bedford, Mass. (See adv. index, end
of book)

Pratt & Whitney Co., Hartford, Conn.

Standard Tool Co., Central av & P. Ry., Cleve-
land, O.

Union Twist Drill Co., Athol, Mass.

*Cutters (Core Oven)

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

*Cutters (Core Wire)

BLAKE, GEO. F. MFG. CO., 115
B'way, New York. (See adv. index &
branch offices, end of book)

KNOWLES STEAM PUMP WORKS,
115 B'way, New York. (See adv. index &
branch offices, end of book)

Cutters (Corn)

American Fork & Hoe Co., Cleveland, O.

New Process Mfg. Co., Salina, Kan.

Rittenhouse, C. & Sons, Norristown, Pa.

Cutters (Ensilage)

Appleton Mfg. Co., Batavia, Ill.

Belle City Mfg. Co., Racine, Wis.

Comstock, Geo. S. ("Safe Lion"), Mechanics-
burg, Pa.

Dick, Jos. Agricultural Works, Canton, O.

Emery, G. J. ("Kendrick"), Fulton, N. Y.

Gehl Bros. Mfg. Co., West Bend, Wis.

Heebner & Sons, Lansdale, Pa.

Lyon Iron Works, Greene, N. Y.

Messenger Mfg. Co., Tatamy, Pa.

New Winona Mfg. Co., Winona, Minn.

Ross, E. W. Co., Springfield, O.

Rowell, I. B. Co. (With Chain Elevator or
Blower), Menomonee Falls, Wis.

St. Albans Foundry & Implement Co., St. Al-
bans, Vt.

Silver Mfg. Co. ("Ohio" Power), Salem, O.

Smalley Mfg. Co., Manitowoc, Wis.

Star Mfg. Co. (& Carriers), Carpentersville, Ind.

Warsaw-Wilkinson Co., Warsaw, N. Y.

Cutters (Face Milling)

Becker Milling Machine Co. (with Inserted
Teeth), Hyde Park, Mass.

Harrison & Knight Mfg. Co. (High Speed Com-
hined Roughing & Finishing), 60 Shipman,
Newark, N. J.

MORSE TWIST DRILL & MACHINE
Co. (With Inserted Teeth), New Bedford,
Mass. (See adv. index, end of book)

Cutters (Feed)

Ann Arbor Machine Co., Ann Arbor, Mich.

Belcher & Taylor Agricultural Tool Co., Chic-
opee Falls, Mass.

Belle City Mfg. Co., Racine, Wis.

Challenge Co., Batavia, Ill.

Comstock, Geo. S. ("K. D." & "O. K."), Me-
chanicsburg, Pa.

Dick, Jos. Agricultural Works, Canton, O.

Donaldson Bros., Mount Clemens, Mich.

Ellis Keystone Agricultural Works ("Keystone"
Ensilage & Feed Cutter), Pottstown, Pa.

Farmers Mfg. Co., Sehring, O.

Farquhar, A. B. Co., York, Pa.

Freeman, S. & Sons Mfg. Co., Racine, Wis.

Gehl Bros. Mfg. Co., West Bend, Wis.

Glasscock Stove & Mfg. Co., Greensboro, N. C.

Globe Foundry & Machine Co. (With or With-
out Blower Elevator), Sheboygan, Wis.

Gowanda Agr'l Works (Hand), Gowanda, N. Y.

Hartford Plow Works, Hartford, Wis.

Heebner & Sons, Lansdale, Pa.

Hench & Dromgold Co., Inc., York, Pa.

Keystone Farm Machine Co. (Hand or Power),
Lehr Agricultural Co., Fremont, O. York, Pa.

Lyon Iron Works, Greene, N. Y.

Marseilles Mfg. Co. (Steam or Horse Power),
Marseilles, Ill.

Messinger Mfg. Co. (Hand & Power), Tatamy,
Pa.

Moore Plow & Implement Co., Greenville, Mich.

New Winona Mfg. Co., Winona, Minn.

Papec Machine Co., Lima, N. Y.

Parlin & Orendorff Co., Canton, Ill.

Rittenhouse, C. & Sons, Norristown, Pa.

Ross, E. W. Co., Springfield, O.

Rowell, I. B. & Co., Menomonee Falls, Wis.

Sellers, Edw., Oakhall Station, Pa.

Silver Mfg. Co. ("Ohio" Hand & Power Plan-
tation), Salem, O.

Smalley Mfg. Co., Manitowoc, Wis.

"MORSE" CUTTERS

EITHER OF CARBON OR HIGH SPEED STEEL

WHEREVER THE NAME OF "MORSE" IS FOUND IN CONNECTION WITH
TOOLS MADE BY THE MORSE TWIST DRILL & MACHINE CO., NEW
BEDFORD, MASS., IT MEANS EVERYTHING DESIRABLE IN A TOOL,
WHETHER DRILLS, REAMERS, CUTTERS, CHUCKS, TAPS, DIES OR
ANY OTHER LINES MADE BY US.

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Smith, D. B. & Co. (Hay), Utica, N. Y.
 Spangler Mfg. Co. ("Little Giant"), York, Pa.
 Star Mfg. Co., Carpentersville, Ill.
 Thornburg Mfg. Co. ("Peerless" Hand Lever),
 Bowling Green, O.
 Westbrooks Elevator Co., Danville, Va.
 White, E. R. & Bro., Norfolk, Va.
 Williams Bros. ("Cheap & Good"), Ithaca,
 N. Y.

Cutters (Fillet Leather)

Milwaukee Foundry Supply Co., Milwaukee, Wis.

Cutters (Flue)

Faessler, J. Mfg. Co. ("Perfect"), Moberly, Mo.
 Lovejoy Tool Works (Hole), 90 Ohio, Chicago,
 Ill.
 Mansfield Machinery & Supply Co. (Flue Ex-
 panding & Cutter), Mansfield, O.
 Murphy, Christopher & Co. ("O'Neill"), First
 Nat'l Bank bldg, Chicago, Ill.
 Standard Railway Equipment Co., Nat'l Bank
 of Commerce bldg, St. Louis, Mo.

Cutters (Fodder)

Appleton Mfg. Co., Batavia, Ill.
 Cramstock, Geo. S. ("Safe Lion"), Mechanics-
 burg, Pa.
 Dick, Jos. Agricultural Works, Canton, Ill.
 Ellis Keystone Agricultural Works ("Keystone"
 with Crusher Attachment), Pottstown, Pa.
 Emeny, G. J., Fulton, N. Y.
 Eureka Mower Co. (Hand, etc.), Utica, N. Y.
 Harrison, W. R. & Co., Massillon, O.
 Lyon Iron Works, Greene, N. Y.
 Messinger Mfg. Co., Tatamy, Pa.
 Milwaukee Hay Tool Co., Layton Park, Mil-
 waukee, Wis.
 Star Mfg. Co., Carpentersville, Ill.

Cutters (Formed & Formed Milling)

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)
 Union Twist Drill Co., Athol, Mass.

Cutters (Gang)

Becker Milling Machine Co., Hyde Park, Mass.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)
NIAGARA MACHINE & TOOL WORKS,
 Buffalo, N. Y. (See adv. index, end of
 book)
 Pratt & Whitney Co., Hartford, Conn. (See
 adv. index, end of book)
 Surerus & Greenhill, 109 Racine av, Chicago, Ill.
 Union Twist Drill Co., Athol, Mass.

*Cutters (Gate)

HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)

Cutters (Gauge Glass)

Ashcroft Mfg. Co., 85 Liberty, New York.
 Works, Bridgeport, Conn.
 Bonney Vise & Tool Works, Allentown, Pa.
 Chesterton, A. W. & Co. ("McGregor" Scotch),
 64 India, Boston, Mass.
 Hunt, Alex. E. ("Hunt's" for Cutting Gauge
 Glasses), Scranton, Pa.
LUNKENHEIMER CO., General Of-
 fices & Works, Beekman & Waverly, Cin-
 cinnati, O. (See adv. index & branch of-
 fices, end of book)
 Monce, S. G., Unionville, Conn.

MORSE & ROBERTS CO., 227 Campbell
 av, Detroit, Mich. (See adv. index, end of
 book)

Newark Brush & Scraper Co. ("Newark"),
 Newark, N. J.
 Pancoast, Hy. B. & Co. ("Simplex"), 243 S
 3d, Phila., Pa.

ROGERS, H. A. CO. ("Favorite"), 19
 John, New York. (See adv. index, end of
 book)

Worcester Brush & Scraper Co. ("Fletcher,"
 "Worcester"), Worcester, Mass.

Cutters (Gear)

(See Gear Cutting Machines)

Cutters (Glass)

Barrett, W. L., Bristol, Conn.
 Brown & Dowd Mfg. Co. (Rolling Steel Wheel,
 etc.), Meriden, Conn.
 Fletcher, Terry & Co. (Interchangeable & Stand-
 ard Styles), Forestville, Conn.

Goodell-Pratt Co. (with Turret Head), Green-
 field, Mass.

Mayhew, H. H. Co., Shelburne Falls, Mass.
 Millers Falls Co. ("Millers Falls"), 28 War-
 ren, New York; Works: Millers Falls, Mass.
 Monce, S. G. ("Monce" Steel Wheel), Unionville,
 Pritchard-Strong Co., Rochester, N. Y. Conn.
 Rocky Hill Hardware Co., Rocky Hill, Conn.
 Smith & Hemmenway Co. ("Red-Devil"), 108
 Duane, New York
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Cutters (Glass Tube)

(See Cutters, Gauge Glass)

Cutters (Gummer)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
 Butterfield & Co., Derby Line, Vt.
 Mixer, J. W. Saw Tool Co. ("Mixer's XX"),
 Plymouth, Mass.

Cutters (Hand Hole)

Chase Turbine Mfg. Co., Orange, Mass.

Cutters (Hog Nose)

Pratt, Wm. E. Mfg. Co. ("Dr. Millers"), 91
 Lake, Chicago, Ill.

Cutters (Index)

Wrigley, Thos., Co. ("Perfection"), 300 Dear-
 born, Chicago, Ill.

Cutters (Inserted Teeth)

Becker Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE
 Co. (Face & Side Milling), New Bedford,
 Mass. (See adv. index, end of book)
 Union Twist Drill Co., Athol, Mass.

*Cutters (Interlocking)

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)

Cutters (Involute)

Becker Milling Machine Co., Hyde Park, Mass.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)
 Union Twist Drill Co., Athol, Mass.

Cutters (Iron Bar & Rod)

(See also Cutters, Rod & Wire)

Buffalo Forge Co. (Angle Iron), Buffalo, N. Y.
 Commercial Mfg. Co. (Hand Power), Cleve-
 land, O.
 Mersick, C. S. & Co., 286 State, New Haven,
 Conn.
 Star Forge Co. ("Star" Armor Plate, Hand),
 Buffalo, N. Y.

Cutters (Key-Way)

(See Key Seating Machines; also Milling Ma-
 chines)

Cutters (Kraut)

Atkins, E. C. & Co., Indianapolis, Ind.
 Kelso & Co., 209 S Clinton, Chicago, Ill.
 Landers, Frary & Clark, New Britain, Conn.
 National Saw Co., Newark, N. J.
 Peck, Stow & Wilcox Co., 27 Murray, New
 York
 Smith's, Jno. E. Sons Co., Buffalo, N. Y.
 Tucker & Dorsey Mfg. Co. ("Atkins Queen"),
 Indianapolis, Ind.

Cutters (Lace Leather)

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Greene, Tweed & Co. ("Earle"), 109 Duane,
 New York

Cutters (Lead Pipe)

BERNZ, OTTO, S 13th & S Orange av,
 Newark, N. J. (See adv. index, end of book)
 Lord, L. L. Co. ("Lord"), Meadville, Pa.
 Johnson Wm. (Hedenberg Works), (Plumbers'),
 Newark, N. J.

St. Paul Gas Light Co., St. Paul, Minn.
 Saunders', D. Sons, Yonkers, N. Y.
 Vanderman Plumbing & Heating Co., Willi-
 mantic, Conn.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Wolverine Brass Works, Grand Rapids, Mich.

Cutters (Lock Corner Box)

Hiles, C. A. & Co., 14th & Western av,
 Chicago, Ill.
BECK, CHAS. PAPER CO. (LTD.), 607
 Chestnut, Phila., Pa. (See adv. index,
 end of book)

Cutters (Meat)

Athol Machine Co., Athol, Mass.
 Chatillon, Jno. & Sons, 85 Cliff, New York
 Enterprise Mfg. Co., Phila., Pa.
 Landers, Frary & Clark, New Britain, Conn.
 Peck, Stow & Wilcox Co., 27 Murray, New
 York
 Rollman Mfg. Co., Mount Joy, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.,
 & 96 Lafayette, New York
 Smith & Hemmenway Co., 108 Duane, New
 York

Cutters (Metal Slitting)

BLISS, E. W. CO., 19 Adams, Brooklyn,
 N. Y. (See adv. index, end of book)
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Gay & Ward, Athol, Mass.
MORSE TWIST DRILL & MACHINE CO.,
 New Bedford, Mass. (See adv. index, end
 of book)
NIAGARA MACHINE & TOOL
 Works, Buffalo, N. Y. (See adv. index, end
 of book)
 Pratt & Whitney Co., Hartford, Conn.

Cutters (Milling)

American Die & Tool Co., Reading, Pa.
 Becker Milling Machine Co., Hyde Park, Mass.
 Boker, Hermann & Co. ("Novo" Steel), 103
 Duane, New York
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Cincinnati-Bickford Tool Co. (Multiple Spin-
 dle), Cincinnati, O.
CLEVELAND TWIST DRILL CO., Lake-
 side av & 49th, Cleveland, O. (See adv.
 index, end of book)
 Clough, R. M. (also Gear), Tolland, Conn.
 Dwight Slate Machine Co., Hartford, Conn.
 Erlandsen, Julius, 172 Centre, New York
FRASSE, PETER A. & CO., 130
 Worth, New York. (See adv. index &
 branch offices, end of book)
 Garvin Machine Co., 137 Varick, New York
 Harrison & Knight Mfg. Co. (End, Face &
 Side), 60 Shipman, Newark, N. J.
 Huther Bros. Saw Mfg. Co. ("Rochester"),
 Rochester, N. Y.
 Indianapolis Tool & Mfg. Co. (Formed), 518 S
 Capitol av, Indianapolis, Ind.
 Ingersoll Milling Machine Co., Rockford, Ill.
MORSE TWIST DRILL & MACHINE
 Co. (for Mitre & Bevel Gears), New Bed-
 ford, Mass. (See adv. index, end of book)
 National Tool Co., Cleveland, O.
 National Twist Drill & Tool Co. ("National"),
 Detroit, Mich.
 Newton Machine Tool Works (Inc.) (Perforated
 for Internal Lubrication), 2343 Vine, Phila.,
 Pa.
NUTTALL, R. D. & CO., Pittsburg,
 Pa. (See adv. index, end of book)
 Polk, A. J. & Son (also Side Milling), Millers-
 burg, Pa.

Pratt & Whitney Co., Hartford, Conn.
 Rogers, Jno. M. Works, Gloucester, N. J.
 Standard Tool Co., Cleveland, O.
 Surerus & Greenhill ("Eynon's"), 109 Racine
 av, Chicago, Ill.
 Swaine, F. J. Co., 930 N Main, St. Louis, Mo.
 Tabor Mfg. Co. ("Taylor-Newbold" High
 Speed Steel), 18th & Hamilton, Phila., Pa.
 Taylor-Shantz Co. (Forming & Milling), 236
 Mill, Rochester, N. Y.
 Thurston Mfg. Co. (Jewelers), Providence, R. I.
 Union Twist Drill Co. (Inserted Tooth), Athol,
 Mass.

Cutters (Moulding)

American Steam Pump Co. (Solid Steel), Battle
 Creek, Mich.
 Oldham, Joshua & Sons (Inc.), Brooklyn, N. Y.
 Thomson, W. S., 418 W 27th, New York

Cutters (Paper)

(See Paper Cutting Machines)

Cutters (Paper, Hand)

Ross, Jos., Jr., & Co., Newark, N. J.

Cutters (Pinion)

(See Gear Cutting Machines)

Cutters (Pipe)

(See also Pipe Cutting & Threading Machines)

AMERICAN TAP & DIE CO. (Wheel & Roller Style), Greenfield, Mass. (See adv. index, end of book)**ARMSTRONG MFG. CO., Bridgeport, Conn.** (See adv. index & branch offices, end of book)

Ayes & Co. ("Saunders" Pattern), 57 Ellen, Chicago, Ill.

Barnes Tool Co. ("Genuine Barnes"), New Haven, Conn.

Bignall & Keeler Mfg. Co., Edwardsville, Ill.

Brown, H. B. Co., East Hampton, Conn.

Butterfield & Co., Derby Line, Vt.

Collmer Bros. ("Saunders" Pattern), South Bend, Ind.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Curtis & Curtis Co., Bridgeport, Conn.

Ellis-Ford Mfg. Co. ("Ellis"), Detroit, Mich.

Fox Machine Co., Grand Rapids, Mich.

Hollands Mfg. Co., Erie, Pa.

Keller Mfg. Co. ("Keller"), Sauk Center, Minn.

Livermore, Homer F. ("Grant"), 85 Pearl, Boston, Mass.

Mark Mfg. Co., Evanston, Ill.

MURCHEY MACHINE & TOOL CO. ("Murchey," Rapid Roller Pipe Cutter), 52 Porter, c 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)

Oswego Tool Co. ("Saunders Pattern," "Barnes" Improved Three Wheel & Oswego One Wheel, etc.), Oswego, N. Y.

Pancoast, Hy B., & Co. ("Eureka"), 243 S. Reed Mfg. Co., Erie, Pa.

Rumsey & Co. (Ltd.) ("Stanwood"), Three Wheel Seneca Falls, N. Y.

Saunders, D. Sons, Yonkers, N. Y.

Smith, A. P. Mfg. Co., Newark, N. J.

Trimont Mfg. Co. ("Trimo"), Roxboro, Boston, Mass.

Walworth Mfg. Co. (Halls, for Cast Iron Water Mains), 136 Federal, Boston, Mass.

Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass.

Williams Tool Co., Erie, Pa.

Cutters (Pneumatic Stay-Bolt)

(See Pneumatic Staybolt Cutters)

Cutters (Porcelain Tube)

(See Cutters, Arc Lamp Carbon)

Cutters (Rack)

Baker Bros. ("Colburn"), Toledo, O.

Brown & Sharpe Mfg. Co., Providence, R. I.

Gay & Ward, Athol, Mass.

Putnam Machine Co., Fitchburg, Mass.

Reed, F. E. Co., Worcester, Mass.

Cutters (Rod & Wire)

Armstrong-Blum Mfg. Co. ("Marvel"), 104 N Francisco av, Chicago, Ill.

Belden Machine Co., New Haven, Conn.

Billings & Spencer Co. ("Hayden" Combined Wire Cutter & Gas Pliers, etc.), Hartford, Conn.

Brannsdorf-Mueller, Co., Elizabeth, N. J.

Bridgeport Hardware Mfg. Co. ("The Jumbo"), Bridgeport, Conn.

Chambers Bros. Co. ("Johnson's," "Menahan's" & "Chambers" Improved), 52d & Lancaster av, Philadelphia, Pa.

Chandler & Farquhar Co., 36 Federal, Boston, Mass.

Cronk & Carrier Mfg. Co. ("Cronk" Wire Cutter & Bender), Elmira, N. Y.

Crescent Tool Co. (For Wire Only), Jamestown, N. Y.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Keller Mfg. Co. ("Keller"), Sauk Center, Minn.

Kilborn & Bishop Co. ("Drop Forged"), 81 Lloyd, New Haven, Conn.

King, J. M. Co. (Inc.), ("Button's"), Waterford, N. Y.

NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara, Buffalo, N. Y.

Schlueter, M. L., 36 S Canal, Chicago, Ill.

Utica Drop Forge & Tool Co., Utica, N. Y.

Viking Shear Co. ("Viking"), Erie, Pa.

Cutters (Roll Paper)

Hiits Wrench & Mfg. Co. ("New York," "Eclipse" & "Reversible"), Richford, N. Y.

West Mfg. Co., Columbus, O.

Cutters (Root)

Abbe Engineering Co., 220 B'way, New York

Donaldson Bros., Mount Clemens, Mich.

Greenville Implement Co., Greenville, Mich.

Lane Bros. Co. ("Lane's"), Poughkeepsie, N. Y.

Silver Mfg. Co. ("Rapid"), Salem, O.

Whitehurst, R. W. Co., Norfolk, Va.

Cutters (Screw Slotting)

Becker Milling Machine Co., Hyde Park, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.

Clough, R. M., Tolland, Conn.

Disston, Hy. & Sons (Inc.), Tacony, Philadelphia, Pa.

MORSE TWIST DRILL & MACHINE CO. New Bedford, Mass. (See adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn.

Union Twist Drill Co., Athol, Mass.

Cutters (Segment)

Marquette, Jno. N., 507 S Eden, Baltimore, Md.

Cutters (Side Milling)

Becker Milling Machine Co., Hyde Park, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.

Harrison & Knight (High Speed), 60 Shipman, Newark, N. J.

MORSE TWIST DRILL & MACHINE Co. (Or Heading Mills; also With Inserted Teeth), New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National"), Detroit, Mich.

Standard Tool Co., Central av & P. Ry., Cleveland, O.

Union Twist Drill Co. (With Inserted Teeth, etc.), Athol, Mass.

Cutters (Sleet)

(For Removing Sleet from Trolley Wires)

Bayonet Trolley Harp Co. ("Butterfly"), Electric Service Supplies Co. ("O-K"), 1020 Filbert, Phila., Pa.

Eureka Tempered Copper Co. ("Eureka"), North East, Pa.

Garton, W. R. Co. ("Sloan"), 118 W Jackson, Chicago, Ill.

Matthews, W. N., & Bro. ("Matthews" O. K.), St. Louis, Mo.

NUTTALL, R. D. CO. ("U-S"), Pittsburgh, Pa. (See adv. index, end of book)

Osborne, H. A., New Britain, Conn.

Cutters (Soil Pipe)

Ellis & Fort Mfg. Co. ("Ellis"), Detroit, Mich.

Cutters (Solder)*BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y.** (See adv. index, end of book)**Cutters (Spiral Mill)**

(See Cutters, Side Milling)

Cutters (Sprocket)

Becker Milling Machine Co., Hyde Park, Mass.

Brown & Sharpe Mfg. Co., Providence, R. I.

MORSE TWIST DRILL & MACHINE CO. New Bedford, Mass. (See adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn. (of book)

Standard Tool Co., Central av & P. Ry., Cleveland, O.

Union Twist Drill Co., Athol, Mass.

Cutters (Sprue, Foot & Power)

Adams Company ("Steel Tubular"), Dubuque, Ia.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Brass Founders' Supply Co. (Hand & Power for Brass Founders), Newark, N. J.

Gould & Eberhardt (or Gate), Newark, N. J.

Hilles & Jones Co., Wilmington, Del.

Middleditch, Benj., Detroit, Mich.

NORTHERN ENGINEERING WORKS (For Brass Founders), Detroit, Mich. (See adv. index & branch offices, end of book)

Paxson, J. W. Co. ("J-W-P & Co."), Phila., Pa.

Perkins Machine Co., Warren, Mass.

SHUSTER, F. B. CO., (Foot & Power) New Haven, Conn. (See adv. index, end of book)

Standard Machinery Co., Providence, R. I.

Toledo Machine & Tool Co., Toledo, O.

Turner Machine Co., 2049 N 2d, Phila., Pa.

Cutters (Stalk)

Avery, B. F. & Sons (Spiral or Straight Knife), Louisville, Ky.

Avery Co. ("Avery," Spiral Knife), Peoria, Ill.

Bradley, David Mfg. Co., Bradley, Ill.

Deere & Mansur Co., Moline, Ill.

Gale Mfg. Co. (Single Row), Albion, Mich.

Galesburg Coulter-Disc Co. ("Brown"), Galesburg, Ill.

Kingman Plow Co., Peoria, Ill.

Lehr Agricultural Co., Fremont, O.

Moline Plow Co. (Single & Double Row), Moline, Ill.

Parlin & Orendorff Co., Canton, Ill.

Peoria Drill & Seeder Co. ("Union"), Peoria, Ill.

Peru Plow & Wheel Co. (Single & Double-Row), Peru, Ill.

Rock Island Plow Co., Rock Island, Ill.

St. Albans Foundry & Implement Co., St. Albans, Vt.

St. Joseph Plow Co. (Single & Double Row), St. Joseph, Mo.

Sterling Mfg. Co., Sterling, Ill.

Cutters (Stay-Bolt)

(See also Pneumatic Staybolt Cutters)

Stow Flexible Shaft Co., N 26th & Buttonwood, Philadelphia, Pa.

Underwood, H. B. & Co., 1023 Hamilton, Philadelphia, Pa.

Cutters (Stocking)

Becker Milling Machine Co. (For Involute Gears), Hyde Park, Mass.

Gould & Eberhardt, Newark, N. J.

MORSE TWIST DRILL & MACHINE Co. (For Involute Gears), New Bedford, Mass. (See adv. index, end of book)

Union Twist Drill Co. (For Gears), Athol, Mass.

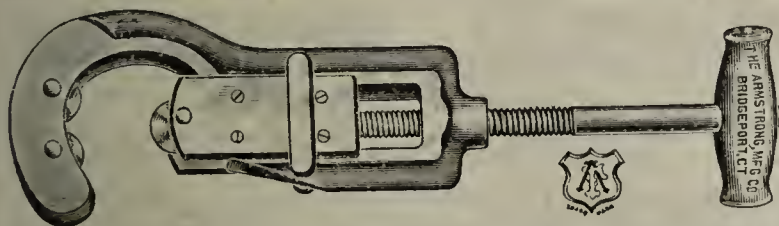
**ARMSTRONG
MODEL B****PIPE CUTTER**TWO OF THESE CUTTERS WILL DO THE
WORK OF THREE ORDINARY CUTTERS

MANUFACTURED BY

THE ARMSTRONG MFG. CO., Bridgeport, Conn.

NEW YORK

CHICAGO



Cutters (T-Slot)

Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)
National Twist Drill & Tool Co. ("National"),
Detroit, Mich.
Union Twist Drill Co., Athol, Mass.

Cutters (Tap & Reamer)

Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Union Twist Drill Co., Athol, Mass.

Cutters (Tobacco, Counter)

Enterprise Mfg. Co. ("Enterprise"), Dauphin
& 3d, Phila., Pa.
Erie Specialty Co., Erie, Pa.
Griswold Mfg. Co., Erie, Pa.
Hardware & Woodenware Mfg. Co. ("Brigh-
ton," "Perfection," "Superior"), 826
B'way, New York
Landers, Frary & Clark ("Lee's"), New Britain,
Conn.
North Bros. Mfg. Co. ("American," also
Shaves), Lehigh av & American, Phila., Pa.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Wrightsville Hardware Co., Wrightsville, Pa.

Cutters (Tube)

Ayes & Co., 57 Ellen, Chicago, Ill.
Faessler, J. Mfg. Co., Moberly, Mo.
Fox Machine Co., Grand Rapids, Mich.
Hayes, Harrison, 41 Cross, Portland, Me.
Lagonda Mfg. Co. (Boiler Tube Cutters), Spring-
field, O.
Murphy, Christopher & Co. ("O'Neill's" Rapid,
Operated by Hand or Motor), First Nat'l
Bank bldg, Chicago, Ill.
Wiedeke, Gustav & Co. ("Wiedeke," "Ideal" &
"Dayton" Self-Feed), Dayton, O.

Cutters (Twist Drill)

Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Union Twist Drill Co., Athol, Mass.

Cutters (Vegetable)

American Fork & Hoe Co., Cleveland, O.
Ames Plow Co., Boston, Mass.
Aspinwall Mfg. Co., Jackson, Mich.
Athol Machine Co., Athol, Mass.
Belcher & Taylor, Chicopee, Mass.
Eddy Plough Co., Greenwich, N. Y.
Goodell Co., Antrim, N. H.
Humphrey & Sons, Joliet, Ill.
Landers, Frary & Clark, New Britain, Conn.
Mann, F. W. Co., Milford, Mass.
Peck, Stow & Wilcox Co., 27 Murray, New York
Rollman Mfg. Co., Mt. Joy, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.,
& 96 Lafayette, New York
Silver Mfg. Co. ("Rapid"), Salem, O.
Standard Bone Cutter Co., Milford, Mass.
Stearns, E. C. & Co., Syracuse, N. Y.
Tucker & Dorsey ("Atkins Queen"), Indian-
apolis, Ind.

Cutters (Veneer)

(See Veneer Cutting Machines)

Cutters (Washer & Gasket)

BERNZ, OTTO ("Haggerty" & Reg-
istering, etc.), S 13th & S Orange av, New-
ark, N. J. (See adv. index, end of book)
Bonney Vise & Tool Works, Allentown, Pa.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Cincinnati Tool Co., Norwood, Cincinnati, O.
Goodell-Pratt Co., Greenfield, Mass.
Johnson, Wm. (Hedenberg Works), Newark,
N. J.
Krauter & Co., 577 18th av, Newark, N. J.
McCrea, Jas. & Co. ("Century"), 67 W Wash-
ington, Chicago, Ill.
Rose, J. A., Hastings, Neb.
Smith, Otis A. (Washer Cutters Only), Rock-
fall, Conn.
Stortz, Jno., & Son (Washer), 210 Vine, Phila.,
Pa.

Cutters (Wire)

(See Cutters, Rod & Wire)

***Cutting Apparatus for Har-
vesters & Mowers**

WHITMAN & BARNES MFG. CO., Chi-
cago, Ill., & Akron, O. (See adv. index &
branch offices, end of book)

**Cutting of Metal (Oxyhydric
Process)**

Falk Co., Milwaukee, Wis.
American Oxyhydric Co., Milwaukee, Wis.

Cyanide

Braun, F. W., Los Angeles, Cal.
Crooks, Robert, & Co., 138 Front, New York
Harrison Bros. & Co. (Inc.) (Cyanide of Soda),
35th & Gray's Ferry rd, Philadelphia, Pa.
Mailinckrodt Chemical Works, St. Louis, Mo.
Roessler & Hasslacher Chemical Co., 100 Wil-
liam, New York
Selby Smelting & Lead Co., San Francisco
Cal.
Washington Cyanide Co., Blewett, Wash.

Cyanide Plants

ALLIS-CHALMERS CO., Milwaukee.
Wis. (See adv. index & branch offices, end
of book)
Arizona & Sonora Mfg. Co., Nogales, Ariz.
Blaisdell Co., Los Angeles, Cal.
Chalmers & Williams, Commercial Nat'l Bank
bldg, Chicago, Ill.
Hendryx Cyanide Machinery Co., Denver, Colo.
Hendy, Joshua Iron Works, San Francisco, Cal.
Pacific Tank Co., Los Angeles, Cal.
Redwood Manufacturers Co., San Francisco
Cal.
Traylor Engineering Co., Allentown, Pa.

Cycles (Motor)

(See Motor Cycles)

Cycles (Railway)

(See Cars, Velocipede)

Cyclometers

(See Indicators, Speed)

Cylinder Re-Boring

Ambrose Machine Co. ("In Position"), Eagle &
Provost, Brooklyn, N. Y.
Gardner & Carey ("St. John" Cylinder), 30
Broad, Boston, Mass.
Lindstrom, Jno F., Allentown, Pa.
Mathews, Hugh, Kansas City, Mo.
Renton, Wm., 101 Water, Pittsburg, Pa.
Ruwell, W. F., 919 Ridge av, Phila., Pa.
Underwood, H. B. & Co., 1023 Hamilton,
Phila., Pa.
Ward & Upright Engineering Co., 41 York,
Brooklyn, N. Y.

Cylinder & Tank Shells

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
Aurora Boiler Works (Inc.), Aurora, Ill.
CANTON BOILER & ENGINEERING CO.,
Canton, O. (See adv. index, end of book)
CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)
GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
MACKINNON BOILER & MACHINE CO.,
Bay City, Mich. (See adv. index, end of
book)

PETROLEUM IRON WORKS CO.,
Sharon, Pa., & Farmers' Bank bldg, Pitts-
burg, Pa. (See adv. index, end of book)
Pittsburg Steel & Construction Co., Lewis
blk, Pittsburg, Pa.; Works, Economy, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st,
av, Pittsburg, Pa. (See adv. index, end
of book)

Cylinders (Air Compressor)

(See Cylinders, Carbonic Acid Gas; also Cyl-
inders & Shells, Seamless Pressed Steel)

Cylinders (Ammonia)

Harrisburg Pipe & Pipe Bending Co. (Anhyd-
rous), Harrisburg, Pa.
National Tube Co. ("Shelby" Seamless Steel),
Pittsburg, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st
av., Pittsburg, Pa. (See adv. index, end
of book)

Cylinders (Artesian Well)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)
Darling Pump & Mfg. Co. (Ltd.), Williams-
port, Pa.
FAIRBANKS, MORSE & CO., Wabash av
& Eldredge pl, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)
Mark Mfg. Co., Evanston, Ill.
Myers, F. E. & Bro., Ashland, O.
National Tube Co. ("Shelby" Seamless Steel),
Pittsburg, Pa.
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

***Cylinders (Caisson)**

CANTON BOILER & ENGINEERING CO.,
Canton, O. (See adv. index, end of book)
CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)
MACKINNON BOILER & MACHINE CO.,
Bay City, Mich. (See adv. index, end of
book)
PETROLEUM IRON WORKS CO.,
Sharon, Pa., & Farmers' Bank bldg, Pitts-
burg, Pa. (See adv. index, end of book)
REEVES BROS CO., Alliance, O. (See
adv. index & branch offices, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st,
av, Pittsburg, Pa. (See adv. index, end of
book)

***Cylinders (Calcium Light)**

CANTON BOILER & ENGINEERING CO.,
Canton, O. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
PRESSED STEEL TANK CO., Mil-
waukee, Wis. (See adv. index, end of
book)
SCAIFE, WM. B. & SONS CO., 221 1st,
av, Pittsburg, Pa. (See adv. index, end of
book)

Cylinders (Car Lighting)

National Tube Co. ("Shelby" Seamless Steel),
Pittsburg, Pa.

Cylinders (Carbon)

Eastern Carbon Works, Jersey City, N. J.

Cylinders (Carbonic Acid Gas)

Bethlehem Foundry & Machine Co., South
Bethlehem, Pa.
Harrisburg Pipe & Pipe Bending Co. (Seam-
less), Harrisburg, Pa.
National Tube Co. ("Shelby" Seamless Steel),
Pittsburg, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st,
av, Pittsburg, Pa. (See adv. index, end
of book)

Cylinders (Cast Iron)

Bethlehem Fdry. & Machine Co. (For Chem-
ical Works, etc.), South Bethlehem, Pa.
MACKINNON BOILER & MACHINE CO.,
Bay City, Mich. (See adv. index, end of
book)
Myers, F. E. & Bro., Ashland, O.
United States Cast Iron Pipe & Foundry Co.
(Large), 71 Broadway, New York

Cylinders (Compress)

Dimmick Pipe Co., Birmingham, Ala.

Cylinders (Creosoting)

Aurora Boiler Works (Inc.), Aurora, Ill.
BOWSER, S. F. & CO (Inc.), Fort Wayne,
Ind. (See adv. index & branch offices, end
of book)
Casey-Hedges Co., Chattanooga, Tenn.
CANTON BOILER & ENGINEERING CO.,
Canton, O. (See adv. index, end of book)
CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

MacKINNON BOILER & MACHINE CO.,
Bay City, Mich. (See adv. index, end of
book)
McNeil, Jas. & Bros. Co., 29th & A. V. Ry.,
Pittsburg, Pa.
Means & Fulton Iron Works, Birmingham, Ala.
Power & Mining Machinery Co., Cudahy, Wis.
REEVES BROS. CO., Alliance, O.
(See adv. index & branch offices, end of book)

Cylinders (Gasoline Engine)

Bessemer Foundry Co., Grove City, Pa.
MacKINNON BOILER & MACHINE CO.,
Bay City, Mich. (See adv. index, end of
book)
Moore, Sam'l L. & Sons Corp. (Marine & Sta-
tionary), Elizabeth, N. J.
Trumbull, Mfg. Co., Warren, O.

Cylinders (Hardening)

American Clay Machinery Co., Willoughby, O.
ATLAS CAR & MFG. CO., THE, (Sand,
Lime, Brick, Plants, etc.), 1289 Marquette,
rd, N. E., Cleveland, O. (See adv. index,
end of book)
CANTON BOILER & ENGINEERING CO.,
Canton, O. (See adv. index, end of book)
MacKINNON BOILER & MACHINE CO.,
Bay City, Mich. (See adv. index, end of
book)
REEVES BROS. CO. (For Brick, etc.),
Alliance, O. (See adv. index & branch of-
fices, end of book)

Cylinders (Hydraulic)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)
East Jersey Pipe Co. (High Pressure), Pater-
son, N. J.
French Oil Mill Machinery Co., Piqua, O.
KOVEN, L. O. & BRO., 50 Cliff,
N. Y. (See adv. index, end of book)
National Tube Co. ("Shelby" Seamless Steel
Tubing), Pittsburg, Pa.
REEVES BROS. CO., Alliance, O. (See
adv. index & branch offices, end of book)
Riverside Foundry Co., 2021 Carter rd, N W,
Cleveland, O.
SCAIFE, WM. B. & SONS CO., 221 1st,
av, Pittsburg, Pa. (See adv. index, end of
book)
Sterritt-Thomas Foundry Co., 32d & Small-
man, Pittsburg, Pa.

*Cylinders (Hydrogen & Oxygen)

CANTON BOILER & ENGINEERING CO.,
Canton, O. (See adv. index, end of book)
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N.Y.
KOVEN, L. O. & BRO., 50 Cliff,
New York. (See adv. index, end of book)
PRESSED STEEL TANK CO., Mil-
waukee, Wis. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

Cylinders (Rock Drill)

Eastwood Wire Mfg. Co., Belleville, N. J.
KOVEN, L. O. & BRO., 50 Cliff,
New York. (See adv. index, end of book)

*Cylinders (Rotary Drying)

CANTON BOILER & ENGINEERING CO.,
Canton, O. (See adv. index, end of book)
CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)
MacKINNON BOILER & MACHINE CO.,
Bay City, Mich. (See adv. index, end of
book)
REEVES BROS. CO., Alliance, O.
(See adv. index & branch offices, end of book)

Cylinders (Vulcanizing)

Casey-Hedges Co., Chattanooga, Tenn.

Cylinders (Water Jacketed)

Manufacturers' Foundry Co. (For Automobiles,
etc.), Waterbury, Conn.

*Cylinders (Wood)

BALTIMORE COOPERAGE CO., THE,
c Hanover & Creek, Baltimore, Md. (See
adv. index, end of book)

*Cylinders & Shells (Seamless Pressed Steel)

**AMERICAN WELL WORKS (&
Brass)**, Aurora, Ill. (See adv. index &
branch offices, end of book)
**PRESSED STEEL TANK CO. (Cold
Drawn)**, Milwaukee, Wis. (See adv. index,
end of book)
REEVES BROS. CO., Alliance, O. (See
adv. index & branch offices, end of book)

Cylinders & Tanks (Seamless)

Avery Stamping Co. ("Never-Break"), Cleve-
land, O.
Harrisburg Pipe & Pipe Bending Co. (Steel),
Harrisburg, Pa.
Janney, Steinmetz & Co. (Cold Drawn Steel),
4th & Walnut, Phila., Pa.
PRESSED STEEL TANK CO., Milwaukee,
Wis. (See adv. index, end of book)

Dairy Apparatus & Supplies

(See also Specific Article Required)

American Wooden Ware Mfg. Co. ("Toledo"),
Toledo, O.
Barclay, D. F., Elgin, Ill.
Burrell, D. H. & Co., Little Falls, N. Y.
Creamery Package Mfg. Co., Chicago, Ill.
Cornish, Curtis & Green Mfg. Co., Fort Atkin-
son, Wis.
Dairy Machinery & Construction Co., Shelton,
Conn.
Dairymen's Mfg. Co., Jersey City, N. J.
Dobson Mfg. Co., Rockford, Ill.
Fargo Creamery Supply House, Lake Mills,
Wis.

Flint Cabinet Creamery Co., Flint, Mich.
Gowing, D. F., Syracuse, N. Y.
Hunt, Helm, Ferris & Co., Harvard, Ill.
Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
Jones, Frank L., Utica, N. Y.
Miller-Tyson Co., Canton, O.
Moisley & Pritchard Mfg. Co., Clinton, Ia.
Palmer, H. H., Rockford, Ill.
Oakes & Burger, Cattaraugus, N. Y.
Reid, A. H. Creamery & Dairy Supply Co.,
69th & Haverford, Phila., Pa.
Sharples Separator Co., West Chester, Pa.
Stoddard Mfg. Co., Rutland, Vt.
Vermont Farm Machine Co., Bellows Falls, Vt.

*Dam & Lock Equipments

G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)

Damp Course.

Acme Asphalt Roofing Mfg. Co. ("Eagle"
Brand Asphalt), 65 Mallory av, Jersey City,
N. J.
Barrett Mfg. Co., Land Title bldg, Phila., Pa.
Bird, F. W. & Son ("Paroid"), East Walpole,
Mass.
Clarke, Wm. Wirt & Son (Mfrs.' Agents), Mon-
ument & Forrest, Baltimore, Md.
Drehmann Paving Co., 262 Parish, Phila., Pa.
Pacific Refining & Roofing Co. ("Plasterite"),
San Francisco, Cal.
Patent Vulcanite Roofing Co. ("Vulcanite"),
625 S Campbell av, Chicago, Ill.
Simpson Bros. Corporation, 166 Devonshire,
Boston, Mass.
Simpson Co., 138 Washington, Chicago, Ill.
Standard Paint Co. (Ruberoil), 100 William,
New York
Trinidad Asphalt Mfg. Co., 320 S 21st, St.
Louis, Mo.
Vulcanite Paving Co., 114 Liberty, New York

Damp Proofing Compounds

(See Waterproofing Materials)

Damper Regulators

(See Regulators, Damper)

Dampers (Coke Oven)

Helmick Foundry & Machine Co., Fairmont,
W. Va.

Dampers (Fireplace, Etc.)

Colonial Fireplace Co., Chicago, Ill.
Covert, H. W. Co. ("The Covert Throat"), 268
Greenwich, New York
Jackson, Edwin A. & Bro. (Dome, Slide &
Ratchet & Covert's Throat, etc.), 50 Beek-
man, New York
Milford Iron Foundry Co., Milford, Mass.

Dampers (Pipe)

Arcade Mfg. Co. ("Arcade"), Freeport, Ill.
Berger Bros. Co., 231 Arch, Phila., Pa.
Cheney, S. & Son, Manlius, N. Y.
Fanner Mfg. Co., Cleveland, O.
Gray Iron Foundry Co., Reading, Pa.
Griswold Mfg. Co. ("American"), Erie, Pa.
Hardware & Woodenware Mfg. Co. ("Brigh-
ton"), 693 B'way, New York
Hollands Mfg. Co., Erie, Pa.
Howes, S M. Co. ("Yankee" All Steel), 40
Union, Boston, Mass.
Peck, Stow & Wilcox Co., 27 Murray, New York
Pleuger & Henger Mfg. Co., St. Louis, Mo.
Republic Metal Ware Co., Buffalo, N. Y.
Sayre Stamping Co. ("Uncle Sam"), Sayre, Pa.
Taylor & Boggis Foundry Co., Cleveland, O.
Wheeling Corrugating Co. ("Wheeling," Cast
Iron), Wheeling, W. Va.

Davits (Ship)

Lane & De Groot Co. ("Welln Quadrant,"
etc.), 17 Battery pl, New York

*Deafening Materials

CABOT, SAM'L, 141 Milk, Boston,
Mass., & 28 Dearborn av, Chicago, Ill. (See
adv. index & branch offices, end of book)

Decalcomania Transfers

(See Ornaments, Transfer)

Decorations

Under this heading see sub-classifications:
For other materials used for decorating, etc.,
see the following classifications in different
parts of the book:

Capitals, Composition; Carvers, Stone; Carvers,
Wood, Classic; Ceilings, Sheet Steel; Floors,
Parquet; Glass Stainers; Grille, Fret & Lat-
tice Work; Marble, Art (Scagliola); Marble,
Interior Work; Memorial Windows; Modelers
& Sculptors, Architectural; Mosaic, Various
Kinds; Mouldings, Various Kinds; Orna-
ments, Various Kinds; Papier Mache; Scenic
Artists; Sheet Metal Capitals, Borders,
Friezes, etc.; Stucco Work; Tiles, Various
Kinds; Wall Finishes.

*Decorations ("Beaver" Wall Board)

BEAVER MFG. CO., THE, 228 Perry
st., Buffalo, N. Y. (See adv. index, end of
book)



Decorations (Carton Pierre)

ARCHITECTURAL DECORATING CO.,
643 S Jefferson, Chicago, Ill. (See adv. in-
dex, end of book)
Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
Cincinnati Plastic Relief Co., Madisonville, O.
DECORATORS' SUPPLY CO., Archer
av & Leo, Chicago, Ill. (See adv. index &
branch offices, end of book)
De Planque, R. & Son., 341 N 4th, Phila., Pa.
Eastern Ornamental Plaster Co., B'klyn, N. Y.
Emmel, Chas. & Rose Co., 383 Albany, Boston,
Mass.
Liesum, George & Co., 228 E 24th, New York
Marks, W. A. Plaster Ornamental Mfg. Co. 726
W 5th, Cincinnati, O.
Rndolph, Oscar, 32 E 22d New York
SEIFERT, FRANK A., PLASTIC RE-
lief Co., 2621-2627 Dayton, St. Louis, Mo.
(See adv. index, end of book)
Verpeller, H. E. & Co., 288 Washington,
Newark, N. J.

Decorations (Church)

Benzinger Brothers, 36 & 38 Barclay, New York
Borgia Marble Co., 1133 B'way, New York
Colgate Art Glass Co. (W. L. Coldwell), 8
Gansevoort, New York
Decorative Arts Co., 527 5th av, New York
Dolan, W. J., 181 Tremont, Boston, Mass.
Geissler, R., 56 W. 8th, New York

Ilalbert, Geo. & W., 455 Fulton, Brooklyn,
Janes, Walter, 123 E 23d, New York. N. Y.
Lamb, J. & R. (Inc.), 25 6th av, New York
Righter & Kolb, 156 5th av, New York
Sleep, Elliott & King Co. (Inc.), 562 W 23d,
New York. & 351 Cambridge, Boston, Mass.
Stoizenberg Co., 51 Barclay, New York
Tiffany Studios, Madison av & 45th, New
York

Decorations (Interior)

ALABAMA.

BIRMINGHAM—Butenson & Anderson, 1820
2d av
Colby, W. D. Decorating Co., 2023 1st av
Hall, Brent & Co., 220 41st, A'dale
Roll, J. H., 2022 1st av
MONTGOMERY—Holm, Alfred & Co., 17 N
Lawrence
Norton, Jos. Co., New Windsor Hotel

CALIFORNIA.

LOS ANGELES—Arenz, Richard, 535 Los An-
Barker Bros. (Inc.), 417 S Main geses
California Wall Paper Co., 709 S. B'way.
De Quella, R. T., 232 S Hill
Matthews, Geo., 2155 Santa Cruz
Noble, Arthur, 1345 E 27th
Parker Decorative Co., 452 Spring
Volkmer, B., Henne bldg, 122 W 3d
OAKLAND—Jurgewitz, J. Fred (Staff &
Stucco Work), East Oakland
SAN FRANCISCO—Andersen, Harold, 1014
Fillmore

Bagdalupl, Prospero, 612 B'way
Cook's Decorating Co., 1616 Market
Eisfelder, Edgar M., 567 Webster
Goetze, F. W., 3729 26th
Hinton, Russell, 1475 Washington
Jensen, A. P., 81 Brosnan
Keefe, Jno. H., 824 O'Farl
Kern, Henry, 1626 California
Kreiss, L. & Sons, 1219 Post
Newell, Chas., 29 Brosnan
O'Hara & Livermore, 1366 Sutter
Orsi, G., 21 Montgomery
Quadt, Jno. Co., 1421 Market
Raby, A., 779 McAllister
Riedel & Keiser, 339 Noe
St. Denis, J. & Co., 1467 Ellis
Schaefer, Adam, 3252 16th
Schastey & Vollmer
Schubert, Richard, 1401 Union
Sikora, Chas., 253 Church
Smith, Geo. J. & Son, 46 Cook
Taylor & Sinclair Co., 1462 Bush
United Studios, 1415 Post
Wagner Bros., 530 Gough
Wocker, A. C., 1625 California

COLORADO.

DENVER—Abblati, A., 1521 Cleveland pl
Adamson, Dan'l P., 1614 Champa
Guiry Bros., 1524 Court Pl.
James, B. L. Mercantile & Mfg. Co., 1517
Murphy, Geo. F., 1225 S. Pearl. Arapahoe
Reitze Wall Paper & Paint Co., 1643 Wel-
ton

CONNECTICUT.

BRIDGEPORT—Burse, Edw. E. & Co., 952
Main

Coughlin, J. P. & Co., 783 E Main
Dawe, Sam'l, 1071 E Main
Douglas, G. A., 706 Howard av
Ellis, Edgar B., Sanford bldg
Goldberg, L. & D., 24 Lumber
Karle, Frank, 31 Bunnell
Lynch, Geo. P., 1115 Main
Mather, A., 2407 Fairfield av
Morris, A. E., 1272 Tranistan
Multhead, Neil M., 930 Broad
Murphy, H. D., 106 Congress
Ring, Louis F. (Sculptor & Decorator), 36
Senior Bros, 1365 State Harral av
Welles, Geo. E., 498 Warren

DERBY—Hilliker, H. P.
GREENWICH—Newton Decorative Co.
HARTFORD—American Wall Paper Co., 42
Baxter, Wm. G. 231 Asylum Church
Beckwith, A. F., 39 Ann
Bonner, Preston Co., 843 Main
Buckley Bros. & Co., 16 Mulberry
Crosscup & Valcourt Co., 318 Trumbull
Darby, Theo. T., 37 Martin
Fall, Chas., 362 Asylum
Grenier, Geo. F., 19 East
Harris, H. Co., 1092 Main
Hartford Decorating Co., 177 Asylum
Hawley Bros., 902 Main
Jainson, Carl W., 32 Kinsley
Pietsch, C. H. & Son, 1142 Main
Pepon, J. & Co. (Fresco, etc.), 25 Church

Post, Wm. H. Carpet Co., 219 Asylum
Root, C. R. (Relief, Plastic, etc.), 104
Salling, Paul E., 302 Asylum Asylum
Smith, Henry, 34 Kinsley
Turner, C. R., 5 Kinsley
Walker, Robt., 187 Pearl

NEW HAVEN—Beardsley, L. H., 565 State

Coan, M. A., 844 Chapel
Coilenberg, H. & E., 365 State
Ferrari, Febo, 447 Grand av
Grillo, S. G., 192 Davenport av
Hande-Tees Co., 440 Elm
Massari, Menna, 128 Bradley
Merrels, Cross & Beardsley, 90 Orange
Monroe Bros., 353 Crown

Rydingsyard, G. V., 45 Bishop
Thalberg, A. J. & Bro., 25 Vernan
Thompson, Chas. P., 46 Elm

WATERBURY—Austin & Woodruff (Inc.), 157
Charters, J. F., 249 E Main E Main
Hoffman, W. H. Co., 158 Grand
Reed, Norman E., 1030 E Main
Taylor, A. F. Co. (Fresco, etc.), 43 Center
Van Ostrom, H., 1306 E Main
Waterbury Decorating Co., 241 N Main
Woodruff, Geo. H., 145 Bank
Ziglatzki-Marks Co., 110 S Main

DISTRICT OF COLUMBIA.

WASHINGTON—Barr, Geo. H., 906 Mass. av
Brown, Thos. A. & Son, 1411 F. N W
Coon, Wm. H., 1307 Wis. av, N W
Copeland, M. G. Co., 409 11th, N W
Dieter, Jos. J., 323 B. S E
Dorrelle, Edw., 1600 14th, N W
Hansell, Geo. Y., 601 H. N E
Haslup, G. A., 1802 U. N W
Henderson, R. W. & J. B., 1109 F. N W
Jackson, A. F., 310 John Marshall pl, N W
Macnichol & Son 428 10th, N W
Marshall, H., Newton Co., 1210 New York
Plitt, Geo., 1727 7th, N W av, N W
Smith & Rupertus, 732 13th, N W
Strieby, Geo. F. W. & Son, 1114 F. N W
Strieby, G. M. Co., 527 10th, N W
Wurdeman & Co., 610 12th, N W

GEORGIA.

ATLANTA—Atlanta Terra Cotta Co. (Staff &
Composition), 6 N Forsyth
Koppe & Steinichen (Carvers & Modelers),
89 Houston
Otto, J. W. & Johns Co. (Interior), 114
Pierson & Hancock, Grant bldg N Pryor

ILLINOIS.

CHICAGO—Almini Co., 107 Wabash av
Anderson & Osterholm Co., 1202 W 59th
ARCHITECTURAL DECORATING CO.,
643 S Jefferson. (See adv. index, end
of book)

Bergquist, G. W. Decorating Co., 850 Evan-
Blake, Ludwig L., 521 E 43d ston av
Bobbe, J. & Co., 1914 Wabash av
Builders & Decorators' Supply Co. (Inc.),
554 N Halsted

Carson, Pirlle, Scott & Co., State & Madi-
Cook, E., 5634 Halsted son
Crafters, The. Steinway Hall
DECORATORS' SUPPLY CO., Ar-
cher av & Leo av. (See adv. index, end
of book)

Field, Marshall & Co., State & Wash'n
Hartmann, Malcom Co. (Carvers, Modelers,
Decorators, etc.), 13 N Jefferson

Hultsch, M., 5554 Laflin
Johnson, Oscar, 286 Grand av
McCarthy, J. G. & Co., 1832 Wabash av
Millet, Louis J. (Glass Mosaics, Frescoing,
etc.), 169 E Adams

Mitchel & Halbach, 264 Michigan av
Nelson, W. P. Co., 241 Michigan av
Nyden & Thunander, 82 E 43d

Patterson, C. M., 1577 W Madison
Plastic Relief Mfg. Co., 298 N Halsted
Purvis & Pool, 324 E 39th

Remien Decorating Co., 184 E Indiana
Salomon, Wm. E. & Co., 159 La Salle
Spierling & Linden, 1218 Michigan av
Sturdy, J. F., 287 Michigan av

Sullivan, J. B. & Bro. (Fresco & Mural), 266
N Clark

Thiel, L. A. (Fresco), 482 Racine av
Weary & Alford Co., 164 Dearborn
Wheaton, G. S., 152 E Erie

Williams, Thos. B. W Madison & Ashland
PEORIA—Rush, Jno. A., 430 Main boul
Trapp, J. B., 508 Main

INDIANA.

FORT WAYNE—Fort Wayne Art Decorative
Co., 15 Arcade
Haller, Gottlieb, 362 Calhoun

Hull, S. W., 27 Clinton
Kreibbaum, Fred, 92 Barr
Lang, H. R. & Co. (Plastic, Staff & Com-
position)
INDIANAPOLIS—Coppock Bros. (Wall Paper),
187 N Meridian

Fertig & Kevers, 40 E Wash
Gloscio, G. & Co., 123 N Noble
Heal, Chas. W., Lemcke bldg

INTERIOR HARDWOOD CO. (See
adv. index, end of book)

Mack, F. J. & Co., 26 Ky av
Reisinger, Wesley, 23 S Alabama

IOWA.

ALBIA—Bird, W. E.
BURLINGTON—Brune, H. & Co.
DES MOINES—Kell, Otto, 1026 16th
FAIRFIELD—Moore, M. V. & Son
SIOUX CITY—Almskog & Anderson, 614 5th

KANSAS.

IOLA—Broadus, F. M.
TOPEKA—Fernald, Martin & Co., 625 Kansas
Larsh, H. L. & Co., 722 Kansas av av

KENTUCKY.

LOUISVILLE—Davies, Will G., 337 10th
Duncan, T. B. & Sons, 517 3d
Fernow, F. & Sons, 326 Stein ct
McDowell, R. E., 915 W Market
Moock, Lorenz, 706 E Jefferson
Pell, W. B. & Bro., 531 3d
Schmiedt & Herchenrader, 1035 Mary
Williams Bros., 502½ 6th

LOUISIANA.

NEW ORLEANS—Del'Isle, S. G., Hibernia
Bank bldg
Pan-American Decorating Co., 132 Chartres

MAINE.

PORTLAND—Durgin Bros., 63 Union
Felt, Chas. H., 1873 Presumpscot
Howard, W. H., 36 Union
Jost, Daniel F., 210 Cumberland
Main O. R. Decorating Co., 192 Brackett
Redmond, S. H., 84 Union
Spearrin & Gifford
Wildes, Allen & Osterberg, 19 Cotton

MARYLAND.

BALTIMORE—Arnold, Edwin S., 942 W Fay-
Barnett's T. Son, S Collington av ette
Benson, Chas. J. & Co., 325 N Charles
Cole, Chas. H., 2116 Hollins
Dennis, Chas. M., 516 N Eutaw
Dieter, L. A. Co., 105 N Howard
Du Brau Art Co., 857 N Howard
Du Brau, O. M., 606 N Eutaw
Hiltz, Wm. F., 3 Clay
Horner, Charles H. & Co., 224 N Charles
Hurlbutt & Hurlbutt, 403 N Charles
Lafayette Wall Paper Co., 1010 W Balti-
May, M. Co., 715 N Howard more
Melsahn, C. F. & Co., 19 Clay
Mettee & Co., 128 N Eutaw
Roche, Geo. J. & Sons, Holliday & Lex-
Tumbleson, R. J., 908 Madison av ington
Valiant, J. G. Co., 338 N Charles
Watts, J. Marion, 15 Clay

MASSACHUSETTS.

BOSTON—Allen, Hall & Co. (Complete Inter-
iors), 384 Boylston
Alley & Emery, 40 Beacon
Blissell, Samuel, 110 Tremont
Bowker, Lyman A. & Co. (Furniture &
Draperies), 498 Boylston
Buck, C. H. & Co. (Fresco, etc.), 309
Washington
Clark, Cyrus T. Co. (Fresco, etc.), 45
Wareham
Cutler, Frank E. Co., 166 Devonshire
Cutter, A. B. Co. (Fresco & Stained Glass),
36 Columbus av
Daniels & Howlett Co., 40 State
D'Arcy, Edwin M., 100 Boylston
Dean, Sam'l B., 16 Arlington
Dolan, Wm. J. (Fresco & Mural), 181 Tre-
mont
Emmel, Chas. & Rose Co. (Papier Mache,
Plaster Relief, Composition Plaster &
Staff, etc.) 383 Albany
Emmel Co., 51 Bristol
Forsberg, Carl E., 5 Savin Hill av, Dor.
Foster & Wiley Co., 468 Boylston
Fuller, F. A., 120 Tremont
Gregory & Brown Co., 6 Hamilton pl

Haberstroh, L. & Son (Mural, etc.), 647 Boylston
 Irving & Casson (Complete Interiors), 150 Keates, Geo. W., 18 Newbury Boylston
 Kirtland, Chas. F. Co., 683 Boylston
 Lannon, J. F., 367 Boylston
 Lombard, A. P. & Co. (Composition Ornaments, etc.), 101 Bristol
 Lougee & Mason Co., 12 Clarendon
 McCormack & Son, 137 Worcester
 Messinger, W. D., 394 Boylston
 Miller, Robt. & Co., 230 State
 Mortensen & Holdensen, 154 Boylston
 Naylor, W. H., 2a Ramsey, Dor.
 New England Decorating Co. (Flags), 144 Nilson Bros., 92 Chestnut State
 Perry, L. F. & Whitney Co., 8 Bosworth
 Peters & Lindsay, 477 Tremont
 Phillips, Richard, 11 Province ct
 Pray, Jno. H., Sons & Co. (Upholsterers, Carpets, etc.), 658 Wash'n
 Purscher, Wm. F. & Co., 381 Boylston
 Rogers, F. M. & Co., 31 Province
 Schneider, Charles H., 492 Dudley
 Schupbach & Zeller, 10 Park sq
 Sears, Joshua & Co. (Fresco), 165 Tremont
 Sefton, C. H. & Co., 10 Cambria
 Sleep, Elliott & King Co. (Inc.) (Fibrous, Plaster & Modelers), 351 Cambridge
 Strauss Bros. (Fresco), 27 School
 Wallburg & Sherry, 136 Harrison av
 Wallburg & Woebn, 60 Charles
 Wingate, Jas. I. & Son, 338 Boylston
 Woodman & Kelley, 21 Barrett
 Woodside, Alfred A., 163 Sumner, E. B.
 FALL RIVER—Hoar, Geo. E. & Son, 68 Bedford

Sawyer, Chas. S. & Co., 1800 S Main
 Willette, Geo. & Son, 469 Montaup
 SOMERVILLE—Story, O. L. (Fresco & Mural), 21 Tufts
 SPRINGFIELD—Ashley, H. W. (Fresco), 127 Bridge

Atkins, A. W. (Fresco), 18 Allendale
 Edwards, F. W., 73 Dwight
 Gutterman, H. W. (Mural), 374 Main
 Harding, John P., 317 Main
 Loudergan, W. A., White
 Old Corner Decorating Co., 66 Bridge
 Springfield Wall Paper House, 42 Harrison
 Thieme Bros., 567 Main av
 Williams, J. H. Wall Paper Co. (Fresco), 34 Harrison av
 WORCESTER—Minsch, Chas. C. & Co., 14 Sandgren & Ebnborg, 274 Main Waldo
 Stenberg & Co. (Inc.), 260 Main
 Strauss Bros., 6 Norwich

MICHIGAN.

BATTLE CREEK—Marsh & Link
 DETROIT—Bailey Co. (Art Decorations), 224 21st
 Brand, Chas. R. Son (Fresco, etc.), 1518 Woodward av
 Brede & Schroeter (Fresco, etc.), 20 Adams
 Bridges, E. P., 329 Dix av W
 Burnett, H. E., 434 Grand River av
 Dean, Harry J. Co. (Fresco), 169 Griswold
 Detroit Decorative Supply Co. (Ltd.), 810 Deveraux, B. N. Co., 114 Baker 14th av
 Greig, Wm. R., 497 Kercheval av
 Griesel & Lenzen (Fresco), 420 Gratiot av
 Kress & Miller, 376 Gratiot av
 Kunter, Fred., 564 Gratiot av
 Martin, W. E. Co. (Fresco, etc.), 735 Woodward av
 Ornamental Products Co., 549 Fort, W
 Roach, Jas. Co. (Fresco & Designers), 283 Woodward av
 Spindler & Son, 210 Gratiot av
 Sweet, A. K. & Thomson, 78 B'way
 Vinton Co., 126 Woodbridge, E
 Vinton Studios, 30 Adams, W
 Wall, T. J. & Sons (Fresco), 836 Mich. av
 Wright, Wm. Co. (Designers & Decorators), 54 Fort, W

GRAND RAPIDS—Harvey & Seymour, 59 Monroe
 Heystek & Canfield Co., 75 Monroe
 JACKSON—Marriott, H. H. (Fresco, etc.), Carter bldg
 SAGINAW—Boehlke, Henry & Co. (Fresco), 800 S 4th av
 Maxon, E. C. & Sons (Fresco), 207 S Wash'n av

MINNESOTA.

DULUTH—Gordon, J. Fred., 127 E Superior
 Youngdahl & Oman, 232 W 2d
 MINNEAPOLIS—Bradstreet, John S. & Co. (Decorators & Furnishings), 327 S 7th
 Christesen, S. P., 2209 Harriet av
 Clow, J. A. & Co. (Art Goods), 836 Nicollet
 Cramer, Harry B. Co., 215 S 6th av
 Finke, F. W., 1101 E Lake
 Jacobson, H. M., 817 Nicollet av

Plymouth Decorating Co., 307 Plymouth av
 Rourke, D. F., 2728 Hennepin av
 Steadman, C. L., 2420 Polk
 Taylor & Watson, 17 S 7th
 ST. PAUL—Bazille & Partridge (Inc.) (Fresco), 33 E 6th
 Canner, J. A. (Fresco), 302 Walnut
 Hanson & Swenson, 241 W 3d
 Hayek & Pavlieck, 16 E 6th
 Hill Decorating Co., 489 Sibley
 Mann, F. R. & Son (Fresco), 437 St. Peter

MISSOURI.

KANSAS CITY—Jennens, W. H. Mfg. Co. (Staff, Compo., Carton Pierre, etc.), 1700 Wyandotte
 Tracy Decorative Co., 401 E 11th
 ST. JOSEPH—Janicke, Rudolph, Irish-American bldg
 ST. LOUIS—Bender, M. & Co., 3832 Olive
 Buebner, A. & Co., 220 N 2d
 Busch & Latta Painting Co., 2703 Lafayette av
 Cheshire Realty & Decorating Co., 5888 Easton, av
 Doyle & Gahl Decorating Co., 4224 Olive
 Hey & Holdsworth Decorating Co., 906 N Grand av
 Krayer Decorating Co., 3531 Olive
 Loire, P. Wall Paper & Frescoing Co., 4224
 Lucks Bros., 4398 Olive Olive
 Marx & Jones, 308 N 6th
 Newcomb Bros., Wall Paper Co., 416 N. 4th.
 Prall, Alfred A. (Carving, etc.), 2701 Ar-
 Pries, Albert, 1044 N Grand av mand pl
 Roehrig & Jacoby Wall Paper & Carpet Co., 1223 Olive
 SEIFERT, FRANK A., PLASTIC Relief Co. (Architectural, Plastic Relief, etc.), 2621-2627 Dayton. (See adv. index, end of book)
 Watts, Geo. A., 1322 Washington av
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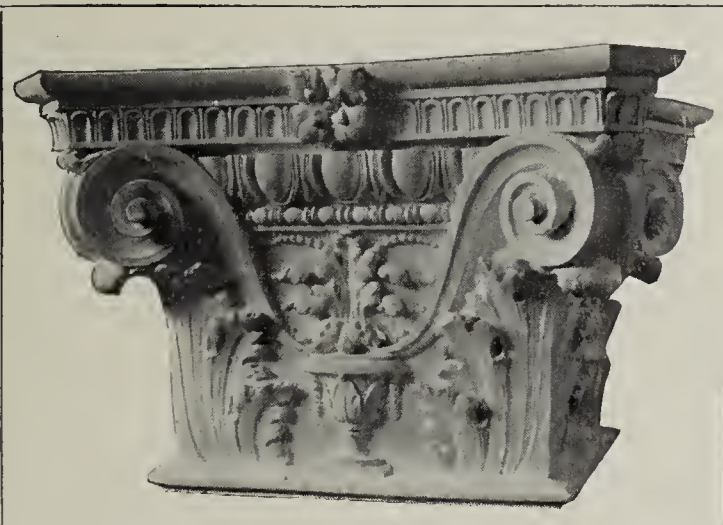
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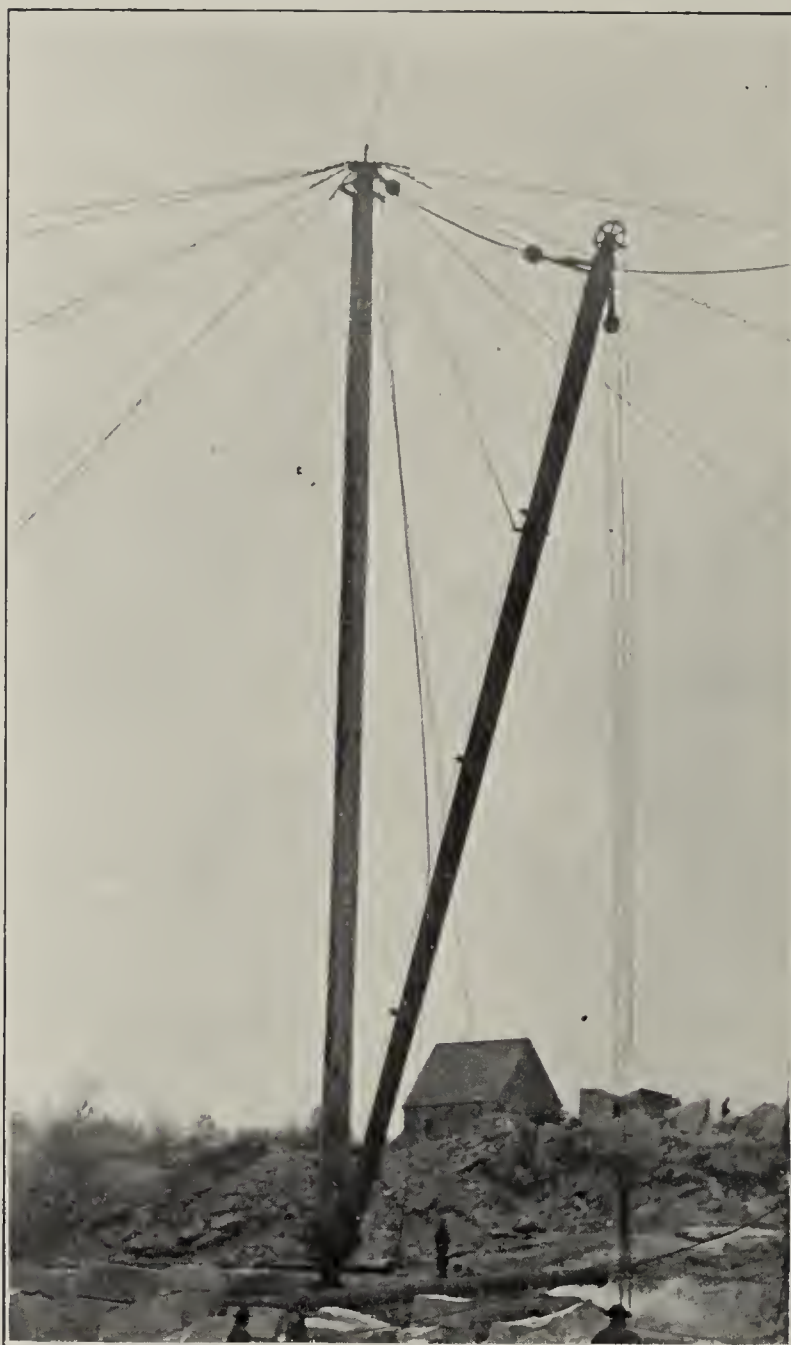
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adv. index & branch offices, end of book)
Lincoln Iron Works, Rutland, Vt.
Lord, Bowler Co., Cleveland, O.
McMyler Mfg. Co., 1799 Columbus rd, Cleve-
land, O. Works, Warren, O.
MARYLAND EQUIPMENT & SUPPLY
Co. (New & Second Hand), Calvert & Fay-
ette, Baltimore, Md. (See adv. index, end
of book)

MEAD-MORRISON MFG. CO., Cam-
bridge (Boston), Mass. (See adv. index &
branch offices, end of book)
Mine & Smelter Co., Denver, Colo.
MONIGHAN MACHINE CO. (Guy & Stif-
Leg), 813 Carroll av, Chicago, Ill. (See
adv. index, end of book)
Motley, Green & Co. (Inc.), 68 Broad, New
York

MUNDY, J. S., 22 Prospect, Newark,
N. J. (See adv. index & branch offices, end
of book)
New York Cableway & Engineering Co., 1 Rec-
tor, New York

Patch, F. R. Mfg. Co., Rutland, Vt.
Portland Extension Ladder Co. (Derricks &
Scaffolds, Complete), 130 Orange, Newark,
N. J.

Safety Steel Derrick Co. (Steel), Bowling
Green, O.
St. Cloud Iron Works (Steam), St. Cloud, Minn.
Shannon, J. Jacob & Co., 1744 Market, Phila.
Pa.

Smith, Whitcomb & Cook Co., Barry Vt
South Baltimore Steel Car & Foundry Co.,
Baltimore, Md.

SPEIDEL, JOHN G. (Folding), c Button-
wood & Gordon, Reading, Pa. (See adv. in-
dex, end of book)

Steam Stone Cutter Co. (Steam, for Heavy
Stone Hauling), Rutland, Vt.
Superior Iron Wks., Superior, Wis.

Terry & Tench Co. (Inc.), Lexington av &
131st, New York
Urie-Snyder Iron Works Co., Kansas City, Mo.

Vulcan Iron Works, Chicago, Ill.
Whitcomb Bros. (Boom), Barre, Vt.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

Wonham, Magor & Sanger (Revolving), 30
Church, New York
Zelnicker, Walter A. Supply Co. (Portable),
St. Louis, Mo.

Derricks (Barge)

(See Derricks, Floating)

Derricks (Clam Shell)

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch
offices, end of book)
DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)
Pittsburg Industrial Iron Works, Pittsburg, Pa.
Works: Reynoldsville, Pa.

*Derricks (Crane)

AMERICAN HOIST & DERRICK CO.,
St. Paul Minn. (See adv. index & branch
offices, end of book)
NORTHERN ENGINEERING WORKS
(Electric), 9 Chene, Detroit, Mich. (See
adv. index & branch offices, end of book)

*Derricks (Floating)

AMERICAN HOIST & DERRICK CO.,
St. Paul Minn. (See adv. index & branch
offices, end of book)
HAYWARD CO., THE, 50 Church,
New York. (See adv. index, end of book)

*Derricks (Folding)

SPEIDEL, JOHN G., Reading, Pa.
(See adv. index, end of book)

*Derricks (Guy)

AMERICAN HOIST & DERRICK CO.
(Self-Slewing Steel or Wooden), St. Paul,
Minn. (See adv. index & branch offices,
end of book)

BOSTON-OREGON MAST CO., 131
Coleridge, East Boston, Mass. (See adv.
index & branch offices, end of book)

HAYWARD CO., THE, 50 Church,
New York. (See adv. index, end of book)

MONIGHAN MACHINE CO., 813 Carroll
av, Chicago, Ill. (See adv. index, end of
book)

*Derricks (Locomotive)

MEAD-MORRISON MFG. CO. (Self-
Propelling, for Stone Cutting Sheds, etc.),
Cambridge (Boston), Mass., & 11 B'way,
New York. (See adv. index & branch offices,
end of book)

*Derricks (Oil & Water Well)

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Derricks (Pile Driving)

Byers, Jno. F. Machine Co., Ravenna, O.
CARLIN'S, THOMAS, SONS CO., 1610
River av (North Side), Pittsburg, Pa. (See
adv. index, end of book)

Contractors Plant Mfg. Co., 127 Erie, Buffalo,
N. Y.

DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y.
(See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty,
New York, & Old Colony bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)

MUNDY, J. S., 22 Prospect, Newark,
N. J. (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO.,
Harrison, N. J. (See adv. index & branch offices, end of book)

New York Cableway & Engineering Co., 1 Rec-
tor, New York
Smith, Theodore & Sons Co., ft of Essex, Jer-
sey City, N. J.

Vulcan Iron Works, 59 Milwaukee av., Chi-
cago, Ill.

Derricks (Revolving)

(See Derricks)

*Derricks (Steam)

NATIONAL HOISTING ENGINE CO.,
Harrison, N. J. (See adv. index & branch offices, end of book)

Derricks (Steel)

(See Also Derricks)

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch offices, end of book)

Danville Foundry & Machine Co., Danville, Ill.
DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

HAYWARD CO., THE (Traveling & Stationary), 50 Church, New York. (See adv. index, end of book)

Interstate Engineering Co., Bedford, O.
Modern Steel Structural Co., Waukesha, Wis.
National Equipment Co., Monadnock bldg., Chicago, Ill.

New York Cableway & Engineering Co., 1 Rec-
tor, New York

Page, John W. (Revolving Boom), Security bldg., Chicago, Ill.
York Bridge Co. (Any Length of Mast or Boom), York, Pa.

*Derricks (Stiff-Leg)

AMERICAN HOIST & DERRICK CO.,
St. Paul Minn. (See adv. index & branch offices, end of book)

BOSTON-OREGON MAST CO., 131 Cole-
ridge, East Boston, Mass. (See adv. index, end of book)

HAYWARD CO., THE, 50 Church,
New York. (See adv. index, end of book)

MONIGHAN MACHINE CO., 813 Carroll
av., Chicago, Ill. (See adv. index, end of book)

Derricks (Sugar Cane Handling)

Gregg Co. (Ltd.), Newburgh, N. Y.

*Derricks (Tower)

AMERICAN HOIST & DERRICK CO.,
St. Paul Minn. (See adv. index & branch offices, end of book)

Derricks (Traveling)

Allen & Ross (Electric, etc.), Phila., Pa.
AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch offices, end of book)

Byers, Jno. F. Machine Co., Ravenna, O.
DOBBIE FOUNDRY & MACHINE CO.,
Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

HAYWARD CO., THE (Steel), 50
Church, New York. (See adv. index, end of book)

McMyler Mfg. Co., 1799 Columbus rd., Cleve-
land, O. Works, Warren, O.

**MORGAN ENGINEERING CO. (Elec-
tric, etc.), Alliance, O.** (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO.,
Harrison, N. J. (See adv. index & branch offices, end of book)

**SHAW, WILLIS CO., 171 LaSalle, Chi-
cago, Ill.** (See adv. index, end of book)

Terry & Tench Co. (Inc.), Lexington av. &
131st, New York

Desk Mfrs.

ANDREWS, A. H. CO., 174 Wabash
av., Chicago, Ill. (See adv. index & branch offices, end of book)

Armstrong & Barthelmes, Boston, Mass.
Atlanta Table Co., Atlanta, Ga.
Bagby Furniture Co., Baltimore, Md.

Barley & Spencer Lumber Co., Marion, Ind.
Beals, Thos. P. Furniture Co., Portland, Me.
Bentley & Gerwig Furniture Co. (Roll Top & Fiat), Parkersburg, W. Va.

Berlin Mills Co., Portland, Me.
Bentell, H. M., Atlanta, Ga.

Black, Geo. H. (Typewriter), Buchanan, Mich.
Breed-Johnson Furniture Co., Jamestown, N. Y.
Butler Mfg. Co., Syracuse, N. Y.

California Lumber & Milling Co., San Francis-
Capitol Chair Co., Brooklyn, Wis. co., Cal.
Capitol City Furniture Co., St. Paul, Minn.
Central Mfg. Co., 41 Armour, Chicago, Ill.

Chattahoochee Furniture Co., Flowery Branch,
Chautauqua Desk Co., Kane, Pa. Ga.
Coleman, Jas. D., Syracuse, N. Y.

Columbia Lumber & Mfg. Co., Columbia, S.C.
Combined Tool Co. (Combined Typewriter),
Leominster, Mass.

Cutler Desk Co. (Roll & Flat Top), Buffalo,
Dana, Geo. W., Camden, N. Y. N. Y.
Dearborn Desk Co., Marion, Ind.

Derby Desk Co., Boston, Mass.
Dietz, J. F. & Co., Cincinnati, O.
Dornette, J. & Bro., The, Cincinnati, O.

Doten-Dunton Desk Co., Boston, Mass., & 89
Fulton, New York

Dubuque Cabinet Makers' Association, Dubu-
qu, Iowa
Fassler, Jacob, Utica, N. Y.

Feige, E. Desk Co., Saginaw, Mich.
Feige, George, Saginaw, Mich.
Forest City Furniture Co., Rockford, Ill.

Fort Wayne Special Furniture Co., Fort Wayne,
Franklin Desk Co., Franklin, Ind. Ind.
Fravel, Joseph, Woodstock, Va.

Friederich, L. & Bros., St. Louis, Mo.
Fuller, Geo. H. Desk Co., San Francisco, Cal.
Globe Fixture & Furniture Co., Quincy, Ill.

Globe-Wernicke Co., Cincinnati, O.
Grand Rapids Desk Co. (Roll, Flat, Standing & Typewriter), Muskegon, Mich.

Gunn Furniture Co., The, Grand Rapids, Mich.
Hall, G. W. & Co., Boston, Mass.

Hauey School Furniture Co., Grand Rapids, Mich.
Hanpeter, Frederick W., St. Louis, Mo.

Hardwood Manufacturing Co., Greensboro, N. C.
Henry Mfg. Co., Los Angeles, Cal.
Herkimer Manufacturing Co., Herkimer, N. Y.

Himmel, M. L. & Son, Baltimore, Md.
Holman, R. Co., Chelsea, Mass.
Honeye Falls Wood Working Co., Honeye Falls, N. Y.

Horrocks Desk Co. (Inc.), Herkimer, N. Y.
Ideal Furniture Co., Grand Rapids, Mich.
Jasper Furniture Co., Jasper, Ind.

Kalamazoo Sled Co. (Children's Blackboard),
Kalamazoo, Mich.

Kelsall, Thos. & Co., Cincinnati, O.
Keppel, R. J. & Co., Chester, Pa.

Keyer, G. & Co., Cincinnati, O.
Kleeman, W. & Co., 619 W 54th, New York
Koenig Furniture Co., St. Louis, Mo.

Larson, Peter, 189 Iowa, Chicago, Ill.
Lauter, Herman, Indianapolis, Ind.
Leopold Desk Co., Burlington, Ia.

McCassey Bros., Cincinnati, O.
Macey Co., 343 B'way, New York, & Grand
Rapids, Mich.

Marvin, W. F. & Co. (Revolving Hotel Register
Desks), Baldwinville, N. Y.
Marysville Cabinet Co. ("Queen" Typewriter),
Marysville, O.

Mason, J. W. & Co., 436 Pearl, New York
Melchior Bros. Furniture Co., 3 Dayton, Chi-
Meyer & Farrer, Carthage, N. Y. cago, Ill.

Michigan Desk Co. (Ltd.), Grand Rapids,
Mich.

Minneapolis Desk Mfg. Co., Minneapolis, Minn.
Minneapolis Office & School Furniture Co.,
Minneapolis, Minn.

Montgomery Table Works, Montgomery, Pa.
Moon Desk Co. (Roll, Flat, Standing & Type-
writer), Muskegon, Mich.

Moore Mfg. Co., Springfield, Mo.
Myrtle Desk Co., High Point, N. C.

Northwestern Furniture Co., Milwaukee, Wis.
Novelty Wood Work Co. (Inc.), Union City, Pa.

Olsen, O. C. S. & Co., 240 Austin av., Chi-
Orpin Bros., Boston, Mass. cago, Ill.

Parker-Battle-Talbot Mfg. Co., Tullahoma,
Tenn.

Passow's, C. Sons, 196 Wash'n. Chicago, Ill.
Peck & Hills Furniture Co. 1319 Michigan av.
Chicago, Ill.

Petersen, A. & Co., 21 Armour, Chicago, Ill.
Quizley Furniture Co., The, Whitesboro, N. Y.
Quincy Show Case Works, Quincy, Ill.

Rabenau, Martin, Philadelphia, Pa.
Rockwell-Wabash Co., 151 Wabash av. Chi-
cago, Ill.

Roehr, Charles Co., The, Bucyrus, O.
St. Paul Furniture Co., St. Paul, Minn.
Sargent Mfg. Co. (House & Ladies), Muskegon,
Scherer, John C., Jr., Baltimore, Md. Mich.

Schmidt, H. Sons Co., Keokuk, Ia.
Schwarzwaelder, L. A., Chichester, N. Y.

Shaw-Walker Co., The, Muskegon, Mich.
Shelbyville Desk Co., Shelbyville, Ind.

Simmons, R. A. & Co., 135 Adams, Chicago, Ill.
Standard Furniture Co., Herkimer, N. Y.

Tell City Desk Co., Tell City, Ind.
Thorp & Martin Co. ("Monarch" Telephone,
with Typewriter Paper Feed), Boston, Mass.

Toledo Desk & Fixture Co., Toledo, O.
Union Furniture Mfg. Co., Union, S. O.

Valley City Desk Co., Grand Rapids, Mich.
Vaught, H. C. Sons & Co., Parker, Ind.
Vetter Desk Works, Rochester, N. Y.

Wagemaker Co., Grand Rapids, Mich.
Western Furniture Co., St. Louis, Mo.
Winnebago Furniture Mfg. Co., Fond du Lac,
Wis.

Winneberger, Geo. & Son, Philadelphia, Pa.
Winter, M. Lumber Co., Sheboygan, Wis.
Witte, J. C., Manufacturing Co., Minneapolis,
Minn.

Yawman & Erbe Mfg. Co., Rochester, N. Y.

*Desk Slides

STANLEY WORKS (Wrought Steel),
New Britain, Conn., & 79 Chambers, New
York. (See adv. index & branch offices, end of book)

Desks (Metallic)

(See Bank & Office Fixtures, Metallic)

Detectors (Ground)

Fort Wayne Electric Works, Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, New York. (See
adv. index & branch offices, end of book)

Keystone Electrical Instrument Co., 901
Montgomery av., Phila., Pa.

Myers Break Finder Co., Syracuse, N. Y.
Roller-Smith Co., Bethlehem, Pa.

Standard Instrument Co., 60 Nassau, Newark,
N. J.

Steele Glass Co., 622 Locust, Phila., Pa.
WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Weston Electrical Instrument Co., Waverly
Park, Newark, N. J.

Detectors (Water Waste)

Pitometer Co., 220 B'way, New York

Devulcanizers

Birmingham Iron Foundry, Derby, Conn.
Clark, Eldred W., Hartford, Conn.
Thropp, Wm. R., Trenton, N. J.

Dials (Clock, Gauge, Scale, Etc.)

Electro Chemical Engraving Co. (Inc.) (Etched
Metal), 450 19th, Brooklyn, N. Y.
Saio Art Metal Co. (Etched Metal), 19 Collier,
Binghamton, N. Y.

Dials (Meter)

(See Dials, Clock, Gauge, Scale, Etc.)

Diamonds (Black)

(See Black Diamonds)

Diamonds (Glaziers')

Dickinson, Jno. 64 Nassau, New York
Grant-Lees Machine Co., 1360 E 85th, N E.
Cleveland, O.

Sinsz Co., Philip, Baltimore, Md.
Van Moppes & Son, 87 Nassau, New York

Diaphragms (Car)

Acme Supply Co., Chicago, Ill.
Adreon & Co., Security bldg., St. Louis, Mo.

Quincy-Manchester-Sargent Co. ("Ajax" or
"R. A." Vestibule), Plainfield, N. J.

Ward, E. J. Co. ("Ajax," Made from Cotton
Belting), 100 Lake, Chicago, Ill.

Wood, G. S. & Co. ("Acme," Sewed or Sewed
& Riveted), 100 Lake, Chicago, Ill.

Diaphragms (Curtain Fixture)

Quincy-Manchester-Sargent Co. Plainfield,
N. J.

Diaphragms (Paper Mill)

Goodrich, B. F. Co., Akron, O.

Diaphragms (Rubber)

BOSTON BELTING CO., 260 Devonshire. Boston, Mass. (See adv. index & branch offices, end of book)
Continental Rubber Co., Erie, Pa.

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
Goodrich, B. F. Co., Akron, O.

Morgan & Wright (Inc.) (High and Low Pressure, etc.), Detroit, Mich.

PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)

PHOENIX SPECIALTY MFG. CO., 48 Duane. New York. (See adv. index, end of book)

Voorhees Rubber Co., Jersey City, N. J.

Die Block Steel

(See Steel, Crucible)

Die Sinkers

Adriance Machine Works, Brooklyn, N. Y.
Billings & Spencer Co., Hartford, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Clapp, E. D. Mfg. Co., Auburn, N. Y.
Cleveland Galvanizing Works, Cleveland, O.

Crowe Metal Mfg. Co., 71 W Jackson boul. Chicago, Ill.

Globe Machine & Stamping Co., 3868 Hamilton ave, Cleveland, O.

Hay-Budden Mfg. Co., 254 N Henry, Brooklyn, N. Y.

Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Keystone Drop Forge Works, Chester, Pa.

Konigslow, E. Stamping & Tool Works, 323 Champlain av, Cleveland, O.

Leffler, Chas. & Co., Brooklyn, N. Y.
Mooney & Butler, 231 S Canal, Chicago, Ill.

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Perkins Machine Co., Warren, Mass.

Pratt & Whitney Co., Hartford, Conn.
Richard Mfg. Co., Bloomsburg, Pa.

Schwerdtle Stamp Co., Bridgeport, Conn.
Standard Machinery Co., Providence, R. I.

Taylor-Shantz Co., Rochester, N. Y.
V. & O. Press Co., Glendale Station, L. I.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Wheeling Mold & Foundry Co., Wheeling, W. Va.
Wilson & Smith, Worcester, Mass.

Die Stocks

(See Stocks & Dies; also Pipe Cutting & Threading Machines)

Dies

(Under this Heading See Sub-classifications)

Dies (Adjustable Expanding)

AMERICAN TAP & DIE CO. ("Adam-atline," "Temper" & "Eagle Brand"), Greenfield, Mass. (See adv. index, end of book)

BLISS, E. W. CO. (For Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Card, S. W. Mfg. Co. (Round), Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

Chester Engineering & Machine Co., Chester, Pa.
Gardam, Wm. & Son (Inc.), 221 Fulton, New York

Leffler, Chas. & Co., Brooklyn, N. Y.
Modern Tool Co. (Self Opening), Erie, Pa.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Perkins Machine Co., Warren, Mass.
Pratt & Whitney Co., Hartford, Conn.

Reece, E. F. Co., Greenfield, Mass.
Saunders, D. Sons, Yonkers, N. Y.

Smith, Chas. A., Germantown, Phila., Pa.
Standard Machinery Co., Providence, R. I.

Superior Tap Co., Springfield, Vt.
Toledo Pipe Threading Machine Co., Toledo, O.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co. (Round), Granfield, Mass.

Winter Bros. Co. (Round), Wrentham, Mass.

Dies (Automatic)

BLISS, E. W. CO. (For Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Gardam, Wm. & Son (Inc.), 221 Fulton, New York

Geometric Tool Co., New Haven, Conn.
Hartford Machine Screw Co., Hartford, Conn.

Jones & Lamson Machine Co., Springfield, Vt.
Leffler, Chas. & Co., Brooklyn, N. Y.

Perkins Machine Co., Warren, Mass.
Scott & Sons Co. (Expanding), Medford, Mass.

Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.

V. & O. Press Co., Glendale Station, L. I., N. Y.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Dies (Blanking)

Baird Machine Co., Oakville, Conn.

BLISS, E. W. CO. (For Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Callahan Machine & Die Co., Canton, O.
Gardam, Wm. & Son (Inc.), 221 Fulton, New York

Globe Machine & Stamping Co., 3868 Hamilton av, Cleveland, O.

Hatheway Mfg. Co., Bridgeport, Conn.

NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)

NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Quadrige Mfg. Co., 18 S Canal, Chicago, Ill.

Sackmann Mfg. Co. (Inc.), Akron, O.
Standard Machinery Co., Providence, R. I.

Stoll, D. H. Co., Buffalo, N. Y.
Taylor-Shantz Co., Rochester, N. Y.

Trethewey, Samuel & Co. (Ltd.), 47th & Plummer, Pittsburg, Pa.

VOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge, W., Detroit, Mich. (See adv. index, end of book)

Winkelman, Louis & Co., 445 E Pearl, Cincinnati, O.

V. & O. Press Co., Glendale Station, Long Island, N. Y.

Dies (Bolt Threading)

AMERICAN TAP & DIE CO. ("Eagle Brand," Solid), Greenfield, Mass. (See adv. index, end of book)

ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)

Bay State Tap & Tie Co. (Machine or Solid Bolt), Mansfield, Mass.

Brown, H. B. Co., East Hampton, Conn.
Brubaker, W. L. & Bros. (Solid), Millersburg, Pa.

Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M., Tap & Die Co. (Solid Boynton & Plummer), Pawtucket, R. I.

Holroyd & Co. (Round Adjustable & Square Solid), Waterford, N. Y.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Polk, A. J. & Son, Millersburg, Pa.

Reece, E. F. Co., Greenfield, Mass.
Superior Tap Co., Springfield, Vt.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co. (Solid, Round & Square), Greenfield, Mass.

Winter Bros. Co. (Solid Square), Wrentham, Mass.

Dies (Box Printing)

American Name Plate & Engraving Co., 352 Atlantic av, Boston, Mass.

Becker, August Engraving Co., 247 Atlantic av., Boston, Mass.

Borgstrom, G. J., 72 S Canal, Chicago, Ill.

Fries, Anthony J., 717 Sycamore, Cincinnati, Ohio

Murdock, Jas., Jr., Co., 116 Opera pl, Cincinnati, Ohio

Schridde, Wm., 37 S Clark, Chicago, Ill.

Dies (Brick & Clay Workers')

American Clay Machinery Co., Bucyrus, O.

Fernholtz Brick Machinery Co., Boyle & Manchester avs, St. Louis, Mo.

Lolisville Machine Co., Louisville, O.

Means Foundry & Machine Co., Steubenville, O.
Ohio Ceramic Engineering Co., Cleveland, O.

Steele, J. C. & Son, Statesville, N. C.
Stevenson Co., Wellsville, O.

Stoll, D. H. Co., Buffalo, N. Y.

Dies (Can Makers')

Ams, Max Machine Co., Mount Vernon, N. Y.
Astoria Iron Works (Inc.), Astoria, Ore.

Ayars Machine Co., Salem, N. J.
BLISS, E. W. CO. (For Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Stoll, D. H. Co., Buffalo, N. Y.

Dies (Chilled Hammer)

Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
Sterritt-Foundry Co., 32d & Smallman, Pittsburg, Pa.

Dies (Chrome Steel)

Chrome Steel Works, Chrome, N. J.

Dies (Compression Rivet)

Marchant, Geo. F., Elizabeth & Lake, Chicago, Ill.

Dies (Cutting)

Adams, John J. (For Leather, Cloth, Rubber, Paper, etc.), Worcester, Mass.

Adriance Machine Works, Brooklyn, N. Y.
Advance Mfg. Co., Racine, Wls.

American Die & Tool Co., Reading, Pa.
American Hardware Mfg. Co., Ottawa, Ill.

Avery Stamping Co., Cleveland, O.
Baird Machine Co., Oakville, Conn.

Bender, Ph. J. & Sons, 87 Frankfort, New York
Blake & Johnson Co., Waterbury, Conn.

BLISS, E. W. CO. (For Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Brockton Die Co., Brockton, Mass.
Butterfield & Co., Derby Line, Vt.

Callahan Machine & Die Co., Canton, O.
Chester Engineering & Machine Co., Chester, Pa.

Chesterman, F. E. & Co., 125 N 7th, Philadelphia, Pa.

Cincinnati Screw & Tap Co., Twightwee, O.
Collins, Emmons, 20 W Randolph, Chicago, Ill.

Connecticut Tool Co. ("E-Z"), Bridgeport, Conn.
Dewes, A. Co., 243 Centre, New York

Eagle Mfg. Co., Cincinnati, O.
Ferracette Machine Co. (Sheet Metal), Bridge-ton, N. J.

Gardam, Wm. & Son (Inc.), 221 Fulton, New York

Gem Mfg. Co., Spruce av. n. 33d, Pittsburg, Pa.
Glen Rock Stamping Co., Glen Rock, Pa.

Globe Machine & Stamping Co., 3868 Hamilton av, Cleveland, O.

Grammes, L. F. & Sons, Allentown, Pa.
Hibbard, W. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Hilles & Jones Co., Wilmington, Del.
Hoggson & Pettis Mfg. Co., New Haven, Conn.

Ideal Mfg. Co., 20 W Randolph, Chicago, Ill.
Indianapolis Tool & Mfg. Co., 518 S Capitol av, Indianapolis, Ind.

Independent Die Co., Brockton, Mass.
Keene, Geo. C. & Co., 2327 Florence av, Cincinnati, O.

Leffler, Charles & Co., Brooklyn, N. Y.
Lloyd, Jno. C. Co., 558 Water, New York

Milwaukee Cutting Die Co. (Cutting for Gloves, Shoes, Envelopes, etc.), Milwaukee, Wis.

NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS, Buffalo, N. Y. (See adv. index, end of book)

Nye Tool & Machine Co., 15 S Jefferson, Chicago, Ill.

Oster Mfg. Co. ("Keen Cutting"), Cleveland, Ohio

PATTERSON, GOTTFRIED & HUN-ter (Ltd.), 211 Center, New York

Peck, Stow & Wilcox Co., Southington, Conn.

Perkins Machine Co., Warren, Mass.
Pratt & Whitney Co., Hartford, Conn.

Quadrige Mfg. Co., 18 S Canal, Chicago, Ill.
Randall, J. D. Co. (Leather Cutting), Cincinnati, O.

Ranz Stamping Tool Co., 522 Spruce, St. Louis, Mo.

Reece, E. F. Co., Greenfield, Mass.
Richard Mfg. Co., Bloomsburg, Pa.

Riley-Klotz Mfg. Co., Newark, N. J.
Ross-Maver Mfg. Co., Cincinnati, O.

Royal Machine Co., Newark, N. J.
Sackmann Mfg. Co. (Inc.), Akron, O.

Schatz Mfg. Co., Chappaqua, N. Y.
Schlueter, A. & Co., 297 Wash'n, Newark, N. J.

Seecamp, H. D. Machine Co., 305 Gratiot, St. Louis, Mo.

Sigourney Tool Co., Hartford, Conn.
Skareen, John A., 116 Butternut, Detroit, Mich

Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Stone, Thos. & Geo. M., Newark, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.
Superior Tap Co., Springfield, Vt.
Swaine, F. J. Co., St. Louis, Mo.
Toledo Machine & Tool Co., Toledo, O.
Tucker, W. W. & C. F., Hartford, Conn.
V. & O. Press Co., Glendale Station, Long Island, N. Y.

VOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge, W., Detroit, Mich. (See adv. index, end of book)
W. & S. Mfg. Co., Worcester, Mass.
Webster & Perks Tool Co., Springfield, O.
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)
White, L. & I. J. Co., Buffalo, N. Y.
Wooten & Peckworth, 207 Quarry, Phila., Pa.

*Dies (Drop Forging)

American Brake Shoe & Foundry Co. (Steel), Mahwah, N. J.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Cleveland Drop Forging Co., Cleveland, O.
Crucible Steel Co. of America ("La Belle"), Frick bldg, Pittsburgh, Pa.
Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.

Dies (Embossing)

Adriance Machine Works, Brooklyn, N. Y.
American Name Plate & Engraving Co., 352 Atlantic av., Boston, Mass.
Becker, A. Engraving Co., 247 Atlantic av., Boston, Mass.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Gardam, Wm. & Son (Inc.), 221 Fulton, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Leffler, Charles & Co., Brooklyn, N. Y.
Ness, Geo. M., Jr., 61 Fulton, New York
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Schwerdtle Stamp Co., Bridgeport, Conn.
Skareen, Jno. A., 116 Butternut, Detroit, Mich.
Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Taylor-Schantz Co., Rochester, N. Y.

Dies for Crushing Machinery

Standard Steel Works Co., Harrison bldg., Chicago, Ill.

*Dies for Metal Ceilings

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Dies (Forming)

Bender, Ph. J. & Son, 87 Frankfort, New York
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Callahan Machine & Die Co., Canton, O.
Gardam, Wm. & Son (Inc.), 221 Fulton, New York
Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.
Hatheway Mfg. Co., Bridgeport, Conn.
Koungslow, E. Stamping & Tool Works, 323 Champlain av., N. W. Cleveland, O.
Lay & Nawrath Co., Newark, N. J.
National Machine & Tool Co., 253 A, Boston, Mass.
NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.
Quadrige Mfg. Co., 18 S Canal, Chicago, Ill.
Sackmann Mfg. Co. (Inc.), Akron, O.
Stoll, D. H. Co., Buffalo, N. Y.
Swaine, F. J. Co., St. Louis, Mo.
Taylor-Schantz Co., Rochester, N. Y.
VOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge, W., Detroit, Mich. (See adv. index, end of book)
Waterbury Machine Co., Waterbury, Conn.

*Dies (Gas Fixture)

AMERICAN TAP & DIE CO. (Taps & Dies), Greenfield, Mass. (See adv. index, end of book)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Dies (Glove Cutting)

(See Glove Machinery)

*Dies (Machine or Solid Bolt)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Dies (Opening)

Acme Machinery Co., Cleveland, O.
Geometric Tool Co. (Self Opening), New Haven, Conn.
Ideal Opening Die Co., 24 West, New York
MURCHEY MACHINE & TOOL CO. ("Murchey," Automatic), 52 Porter, c 4th av., Detroit, Mich. (See adv. index & branch offices, end of book)
National Machinery Co., Tiffin, O.
Perkins Machine Co., Warren, Mass.
Pratt & Whitney Co., Hartford, Conn.
Tucker, W. W. & C. F. (Automatic), 302 Asylum, Hartford, Conn.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

Dies (Pipe)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)
Ashcroft Mfg. Co., 85 Liberty, New York
Brubaker, W. L. & Bros. (Solid Gas Pipe), Millersburg, Pa.
Card, S. W., Mfg. Co., Mansfield, Mass.
Carpenter, J. W. Tap & Die Co. (Square, Solid, Round), Pawtucket, R. I.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Curtis & Curtis Co., Bridgeport, Conn.
Hayes-Harrison (Adjustable), Portland, Me.
Holroyd & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE Co. (Solid), New Bedford, Mass. (See adv. index, end of book)
Oster Mfg. Co., Cleveland, O.
Polk, A. J. & Son (Solid), Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
Saunders, D. Sons, Yonkers, N. Y.
Superior Tap Co., Springfield, Vt.
Toledo Pipe Threading Machine Co., Toledo, O.
Walworth Mfg. Co. ("Hill's"), 132 Federal, Boston, Mass.
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)
Wells, F. E. & Son Co. ("Economy"), Greenfield, Mass.
Winter Bros. Co. (Solid Square), Wrentham, Mass.

Dies (Press)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Columbia Novelty Mfg. Co. (Power & Press), 1537 N B'way, St. Louis, Mo.
Gardam, Wm. & Son (Inc.), 221 Fulton, New York
Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Leffler, Chas. & Co., 63 Clymer, B'klyn, N. Y.
NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Quadrige Mfg. Co., 18 S Canal, Chicago, Ill.
Smith, Thos. & Co., Worcester, Mass.
Standard Machine Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
VOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge, W., Detroit, Mich. (See adv. index, end of book)
V. & O. Press Co., Glendale Sta., L. I., N. Y.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Dies (Punching)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
American Die & Tool Co., Reading, Pa.

Baird Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Callaghan Machine & Die Co., Canton, O.
Chester Engineering & Machine Co., Chester, Pa.

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)
Gardam, Wm. & Son (Inc.), 221 Fulton, New York

Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.
Gregg Mfg. Co., 1318 W 4th, Cleveland, O.
Hibbard, W. H. Mfg. Co., Brooklyn, N. Y.
Koungslow, E. Stamping & Tool Works, 323 Champlain av., N. W. Cleveland, O.
Leffler, C. & Co., 63 Clymer, Brooklyn, N. Y.
Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.
Perkins Machine Co., Warren, Mass.
Pratt & Whitney Co., Hartford, Conn.
Quadrige Mfg. Co., 18 S Canal, Chicago, Ill.
Standard Machinery Co., Providence, R. I.
Stoll, D. H. Co., Buffalo, N. Y.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Swaine, F. J. Co., St. Louis, Mo.
VOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge, W., Detroit, Michigan. (See adv. index, end of book)
V. & O. Press Co., Glendale Sta., L. I., N. Y.
Wiedeke, Gustav & Co. (Rivet Punches & Dies), Dayton, O.

Dies (Ring)

Railway Steel Spring Co. (Forged or Rolled Steel for Griffin Mills, etc), 30 Church, New York

Dies (Rubber)

Adams, John J., Worcester, Mass.
Adamson, Alex., Akron, O.
Boston Die Co., Boston, Mass.
Bridgewater Machine Co., Akron, O.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Williams Foundry & Machine Co., Akron, O.

Dies (Screw Cutting)

Bay State Tap & Die Co., Mansfield, Mass.
Billings & Spencer Co., Hartford, Conn.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Cleveland Die & Mfg. Co. (Or Thread Rolling), Cleveland, O.
Geometric Tool Co. (Self-Opening & Adjustable), New Haven, Conn.
Holroyd & Co., Waterford, N. Y.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
Reece, E. F., Co., Greenfield, Mass.
SMART, A. J. MFG. CO ("Smart" Spring Screw Threading Dies), Greenfield, Mass. (See adv. index, end of book)
Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

Dies (Screw Plate)

(See Dies, Screw Cutting)

Dies (Self-Opening)

(See also Dies, Opening)

Allen, Chas. G. Co. ("Diamond"), Barre, Mass.
Modern Tool Co. ("Wallace's Adjustable"), Erie, Pa.

Dies (Sheet Metal, Etc.)

(See Dies, Stamping)

Dies (Soap)

Dopp, W. H., Co., Buffalo, N. Y.
Houchin-Alken Co., 37 53d, Brooklyn, N. Y.
Mooney & Bueter, 231 S. Canal, Chicago, Ill.
Schriddle, Wm., 37 S. Clark, Chicago, Ill.
Fries, Anthony J., 717 Sycamore, Cincinnati, Ohio

Dies (Solid)

Bay State Tap & Die Co., Mansfield, Mass.
Card. S. W. Mfg. Co., Mansfield, Mass.
Crane Valve Co., Bridgeport, Conn.

MORSE TWIST DRILL & MACHINE
Co. (For Boynton & Plummer's Bolt Cutters
& for Pipe). New Bedford, Mass. (See adv.
index, end of book)

Mount Carmel Bolt Co., Mount Carmel, Conn.
Pratt & Whitney Co. ("Giant" Adjustable),
Hartford, Conn.

Superior Tap Co., Springfield, Vt.
WELLS BROS. CO., Greenfield, Mass.
(See adv. index, end of book)

Dies (Solid Bolt)

(See Dies, Bolt Threading)

Dies (Spring or Prong)

Carpenter, J. M., Tap & Die Co., Pawtucket,
R. I.
WELLS BROS. CO. ("Little Giant"),
Greenfield, Mass. (See adv. index, end of
book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

Dies (Stamping)

Adriance Machine Works, Brooklyn, N. Y.
American Can Co., 135 Adams, Chicago, Ill.
American Die & Tool Co., Reading, Pa.
Avery Stamping Co., Cleveland, O.
Baird Machine Co., Oakville, Conn.
Blake & Johnson Co., Waterbury, Conn.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO.
(For Sheet Metal), Canton, O. (See adv.
index, end of book)

CLEVELAND PUNCH & SHEAR
Works Co., Cleveland, O. (See adv. in-
dex, end of book)

Consolidated Press & Tool Co., Hastings, Mich.
ELMES, CHAS. F. ENGINEERING
Works, cor. Fulton & N. Sangamon, Chicago,
Ill. (See adv. index, end of book)

Erdle Perforating Co., Rochester, N. Y.
Gardam, Wm. & Son (Inc.), 221 Fulton, New
York

Gem Mfg. Co., Spruce nr. 33d, Pittsburg, Pa.
Glen Rock Stamping Co., Glen Rock, Pa.
Globe Machine & Stamping Co., 3868 Hamil-
ton av., Cleveland, O.

Hatheway Mfg. Co., Bridgeport, Conn.
HEARTLEY MACHINE, VARIETY IRON
& Tool Works, Toledo, O. (See adv. in-
dex, end of book)

Hibbard, W. H., Mfg. Co., 79 Wash'n, Brook-
lyn, N. Y.

Kilborn & Bishop Co., New Haven, Conn.
Konigsrow, E., Stamping & Tool Works, 323
Champlain av., N. W., Cleveland, O.

Leffler, Chas. & Co., 61 Clymer, Brooklyn, N. Y.
Mossberg, Frank Co., Attleboro, Mass.

NESTOR MFG. CO. (Inc.), 40 W 13th,
New York. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)
Perkins Machine Co., Warren, Mass.

Philadelphia Roll & Machine Co., E. 23d &
Wash'n av., Philadelphia, Pa.

Quadrila Mfg. Co., 18 S Canal, Chicago, Ill.
Richard Mfg. Co., Bloomsburg, Pa.

Sackmann Mfg. Co. (Inc.), Akron, O.
Schatz Mfg. Co., Chappaqua, N. Y.

Smith, M. I., Bristol, Conn.
Standard Machinery Co., Providence, R. I.

Stoll, D. H. Co., Buffalo, N. Y.
Swaine, Fred. J., Co., 13 N. 7th, St. Louis, Mo.

Toledo Machine & Tool Co., Toledo, O.
V. & O. Press Co., Glendale Station, Boro. of
Queens, N. Y.

Villinger, W. E., Williamsport, Pa.
VOELKNER & HARRY MANUFACTUR-
ing Co. (Brass), 125 Woodbridge W., De-
troit, Mich. (See adv. index, end of book)

W. & S. Mfg. Co., Worcester, Mass.
Williams, J. H. & Co., 150 Hamilton av., Brook-
lyn, N. Y.

WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of
book)

Zeh & Hahnemann (For Cans, Cutlery, Hard-
ware, etc.), Vanderpool & Avenue A, New-
ark, N. J.

Dies (Steam Hammer)

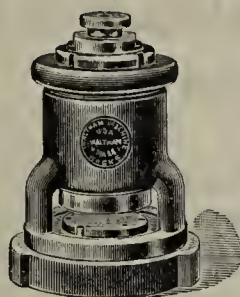
American Brake Shoe & Foundry Co. (Steel),
Mahwah, N. J.

Dies (Stencil Cutting)

Hanson, C. H., 44 Clark, Chicago, Ill.
Ness, George M., Jr., 61 Fulton, New York.
Sackmann Mfg. Co. (Inc.), Akron, O.
Smith, R. H. Mfg. Co., 293 Main, Springfield,
Mass.

Dies (Sub-Press)

American Watch Tool Co., Waltham, Mass.
BLISS, E. W. CO., 19 Adams, Brooklyn,
N. Y. (See adv. index, end of book)
Risdon Tool Works (Inc.), Waterbury, Conn.
WALTHAM MACHINE WORKS (For
Watch & Clock Factories), Waltham, Mass.
(See adv. index, end of book)

**SUB-PRESS
DIES**

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accurate work.
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die are always
in line and always ready to use.

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Waltham Machine Works
Waltham, Mass.

Dies (Thread Cutting)

(See Dies, Screw Cutting)

Dies (Wire Drawing)

Bassanger, Jacques & Co., 108 Fulton, New
York
Hartley, Geo., Waterbury, Conn.

McFarland Foundry & Machine Works, Trenton,
N. J.

Morgan Construction Co., Worcester, Mass.
Newman, C. Wire Co., 143 Liberty, New York.
Newton, J. W. (Also Blanks & Wortles), 81
John, New York

Philadelphia Roll & Machine Co. (Cast Chilled),
S. 23d & Wash'n av., Phila., Pa.

Roux & Co. ("Diamond"), Waterbury, Conn.
Waldeck, Anthony, 7607 B'way, S E. Clevel-
and, O

Waterbury Wire Die Co., Waterbury, Conn.

Digesters

American Process Co. (& Cookers), 68 Will-
iam, New York

Atlantic Works, 70 Border E. B., Boston, Mass.

CANTON BOILER & ENGINEERING CO.,
Canton, O. (See adv. index, end of book)

Dempwolf, O. H. & Co., York, Pa.

Dillon, D. M., Fitchburg, Mass.

Eastwood Wire Mfg. Co. ("Perfection" Bronze
for Paper Mills), Belleville, N. J.

McNeil Boiler Co., Akron, O.

MacKINNON BOILER & MACHINE CO.,
Bay City, Mich. (See adv. index, end of
book)

Manitowoc Steam Boiler Works (Pulp), Mani-
towoc, Wis.

Munroe, R. & Sons Corporation, 23d & Small-
man, Pittsburg, Pa.

PETROLEUM IRON WORKS CO.
(Pulp), Sharon, Pa., & Farmers' Bank bldg,
Pittsburg, Pa. (See adv. index, end of
book)

Petty, J. K. & Co., Stephen Girard bldg,
Phila., Pa.

Pollock, Wm. B. Co. (Of Large Capacity & Pres-
sure for Pulp Mills), Youngstown, O.

Portland Co. (For Sulphite Mills), Portland, Me.

Pusey & Jones Co. (Riveted Sulphate), Wilmington,
Del.

Ritter-Conley Mfg. Co., Pittsburg, Pa., & 111
B'way, New York

Smith, Theodore & Sons Co., ft. of Essex, Jersey
City, N. J.

Stuart & Peterson Co., Burlington, N. J.

Tippett & Wood, Phillipsburg, N. J.

Diggers (Beet)

Avery, B. F. & Sons, Louisville, Ky.
Bucher & Gibbs Plow Co. (The Michigan), Can-
Parlin & Orendorff, Canton, Ill. ton, O.

Diggers (Peanut)

Cardwell Machine Co., Richmond, Va.
Champion Potatoe Machinery Co., Hammond,
Ind.

Diggers (Post Hole)

Avery Stamping Co. ("Never-Break"), Clevel-
and, O.

Baldwin Forging & Tool Co., Columbus, O.

Bolton, John S., Moline, Ill.

Brown Mfg. Co. ("Brown Champion"), Zanes-
ville, O.

Buckeye Mfg. Co. ("Lock Lever"), Canton, O.

Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.

Empire Plow Co. ("Champion"), Cleveland,
Ohio

Eureka Digger Co., 142 Huron, Chicago, Ill.

Gibbs Mfg. Co. ("Columbla," "Gihbs," "Na-
tional"), Canton, O.

Hubbard & Co., Pittsburg, Pa.

Iwan Bros. ("Iwan's," "Iwan's Hercules,"
"Split Handle," "Perfection"), South Bend,
Ind.

Jackson Shovel & Tool Co. ("Montpelier," "Au-
tomatic," "Badger," "Solid"), Montpelier,
Ind., & Market & Randolph, Chicago, Ill.

Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.

Kohler, F. E. & Co. ("Kohler," "Universal,"
"Little Giant," "Invincible," "Rival,"
"Hercules," "Champion" & Pioneer"), Can-
ton, O.

Laramy-Howlett Co. (Butcher Automatic),
Ney Mfg. Co., Canton, O. Cambridge, Mass.

Ney, V. L. Co. ("Ney's," "Lock Lever"), Canton,
Ohio

Ohio Cultivator Co. ("Champion"), Bellevue,
Ohio

Oliver Iron & Steel Co. (Loop or Tamping
Top), Pittsburg, Pa.

Osmund Son Spade Mfg. Co. ("One Minute"),
Perry, Iowa

Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.

Porter, J. E. Co. ("E-Z"), Ottawa, Ill.

Tucker & Dorsey Mfg. Co., Indianapolis, Ind.

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875
W Carroll av., Chicago, Ill.

Western Steel & Iron Works, De Pere, Wis.

Whitman & Barnes Mfg. Co. ("National"),
West Pullman, Chicago, Ill.

Diggers (Potato)

Allen, E. R. Foundry Co. ("Boss," "Potato Dig-
ging Machines), Corning, N. Y.

Allen, S. L. & Co. ("Plavet, Jr." Plow, for
White or Sweet Potatoes), Phila., Pa.

American Fork & Hoe Co., Cleveland, O.

Anderson, J. H. & Co. (Hand), St. Louis, Mo.

Armstrong Machine Works ("Dodge," "Potato
Digging Machines), Three Rivers, Mich.

Aspinwall Mfg. Co. ("Aspinwall," "Potato Dig-
ging Machines), Louisville, Ky.

Avery, B. F. & Sons ("Avery," "Plow, for
White or Sweet Potatoes), Louisville, Ky.

Babcock Mfg. Co. (Cummings, "Otsego," "Pota-
to Digging Machines), Leonardsville, N. Y.

Bateman Mfg. Co. ("Iron Age," "Potato Dig-
ging Machines), Grenloch, N. J.

Belcher & Taylor Agricultural Tool Co.
("Hitchcock" Plow), Chicopee Falls, Mass.

Blount Plow Works ("Blount," "Plow), Evans-
ville, Ind.

Bradley, David Mfg. Co. ("Bradley," "David"
Plow), Bradley, Ill.

Brown, Peter & Son ("Brown" Potato Digging
Machines), Greeley, Colo.

Brown-Manly Plow Co. ("Daisy Jr." Plow)

Burch Plow Works Co. ("Burch" Plow), Crest-
line, O.

Champion Potato Machinery Co. ("O-K Cham-
pion" Potato Digging Machines), Ham-
mond, Ind.

Chattanooga Plow Co. ("Chattanooga" Plow),
Chattanooga, Tenn.

Deere & Co. ("Eclipse," "Jno. Deere," "Shak-
er" Plow), Moline, Ill.

Donaldson Bros. ("Valley" Plow), Mount
Clemens, Mich.

Doughten, H. W. ("King of Potato Field"
Plow), Moorestown, N. J.

Dowden Mfg. Co. ("Dowden," "Potato Digging
Machines), Prairie City, Ia.

Egan Mfg. Co. ("Egan" potato digging
Machines), La Crosse, Wis.

Eureka Mower Co. ("Eureka" Plow), Utica, N. Y.
 Fetzer & Co. ("McSherry," "Columbia A," "Plymouth A" Plow), Springfield, Ill.
 Foryuhar, A. B. Co. ("Hallock" Plows & Machines), York, Pa.
 Gowanda Agricultural Works ("Hamburg," "Knox" Potato Digging Machines), Gowanda, N. Y.
 Greenberg, Edward ("Greenberg"), Arlington Heights, Ill.
 Greenville Implement Co. ("Banner," Plow, Greenville, Mich.
 Hamburg Plow Works ("Hamburg" Plow), Hamburg, Pa.
 Hartford Plow Co. ("Rowell" Plow), Hartford, Wis.
 Hensch & Dromgold Co. ("Hensch & Dromgold" Plow), York, Pa.
 Hirsch Bros. ("Hirsch" Plow), Milwaukee, Wis.
 Hist Mfg. Co. ("Hist," Potato Digging Machines), Barberton, O.
 Hoover Mfg. Co. ("Hoover" Potato Digging Machines), Avery, O.
 Keystone Farm Machine Co. ("Success, Jr." Plow), York, Pa.
 Lean, Roderick Mfg. Co. ("Lean, Roderick," Plow), Mansfield, O.
 Messinger Mfg. Co. ("The Champion" Plows & Machines), Tatamy, Pa.
 Moline Plow Co. ("Moline Knock" Plow), Moline, Ill.
 Moore Plow & Implement Co. ("Moore" Plow), Greenville, Mich.
 Mountville Mfg. Co. ("Mountville" Plow), Mountville, Pa.
 Northwestern Steel & Iron Works ("Clipper" Plow), Eau Claire, Wis.
 Parlin & Orendorff Co. ("Canton" Plow), Canton, Ill.
 Peek, S. H. ("Reuther" Potato Digging Machines), Aurora, N. Y.
 Peru Plow & Wheel Co. ("Peru"), Peru, Ill.
 Racine-Sattley Co. ("Rustler" Plow), Springfield, Ill.
 Rock Island Plow Co. ("Blue Bell," "Rattler" Plow), Rock Island, Ill.
 Schofield & Co. ("Schofield" Plows & Machines), Freeport, Ill.
 South Bend Chilled Plow Co. ("South Bend" Plow), South Bend, Ind.
 Star Mfg. Co. ("Common Sense," "Kiliarney King" Plow), Carpentersville, Ill.
 Standard Harrow Co. ("Standard" Machines), Utica, N. Y.
 Sterling Mfg. Co. ("Sterling" Plow), Sterling, Ill.
 Syracuse Chilled Plow Co. ("Syracuse" Plow), Syracuse, N. Y.
 Wallace & Ireland ("Hay" Machines), Spencerport, N. Y.

Diggers (Stubble)

Avery, B. F. & Sons, Louisville, Ky.
 Deere & Mansur Co., Moline, Ill.
 Hail, Jas. H., Plow Co., Maysville, Ky.
 Moline Plow Co. ("Cap't Lafitte"), Moline, Ill.

Dimmers (Theatre)

American Elec. Heating Corp., Cambridge, Mass.
CUTLER-HAMMER MFG. CO., MILWAUKEE, WIS. (See adv. index & branch offices, end of book)
 Simplex Electrical Co., Cambridge, Mass.
 Ward, Leonard Electric Co., Bronxville, N. Y.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

*Directories for Office & Loft Buildings

TABLET & TICKET CO., 70-86 W Jackson boul, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

Discs (Armature)

(Iron Discs & Segments)

AMERICAN-GOETZE GASKET & PACKING CO. ("Goetze's" Copper Asbestos or Nickel), 532 E 149th, New York. (See adv. index, end of book)
 Avery Stamping Co., Cleveland, O.
 Cary, Edw. E. Co. (Importers), 61 Park pl, New York
 Cleveland Armature Works, Cleveland, O.
 Hendrick Mfg. Co., Carbondale, Pa.
 Smith, Thomas Co., Worcester, Mass.
 W. & S. Mfg. Co., Worcester, Mass.

*Discs (Fibre)

AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)
DELAWARE HARD FIBRE CO, Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY CO., Wilmington, Del. (See adv. index, end of book)

Discs (Friction)

Hilles, C. A. & Co., 14th & Western av, Chicago, Ill.
 Houghton, E. F. & Co. ("Vici" Leather), 240 W Somerset, Phila., Pa.

Discs Grain Drill

Indiana Rolling Mill Co., New Castle, Ind.

Discs (Harrow)

Cambria Steel Co. (Steel), Arcade bldg., Phila., Pa.
 Crucible Steel Co. of America, Plattsburg, Pa.
 Galesburg Coulter Disc Co., Galesburg, Ill.
 Indiana Rolling Mill Co., New Castle, Ind.
 Norwalk Steel & Iron Co. (Crucible), Norwalk, O.
 Taylor, N. & G. Co., Mariner & Merchants' bldg., Phila., Pa.

Discs (Iron & Steel)

Nicetown Plate Washer Co., Nicetown, Phila., Pa.

Discs (Radiator)

AMERICAN-GOETZE GASKET & PACKING CO. ("Goetze's" Copper Asbestos or Nickel), 532 E 149th, New York. (See adv. index, end of book)
 Bliss-Chester Co., 31 Mathewson, Providence, R. I.
 Briscoe Mfg. Co., 1427 Woodward av, Detroit, Mich.
 Globe Machine & Stamping Co., 970 Hamilton, Cleveland, O.
 Ohio Brass Co., Mansfield, O.

Discs (Slate)

McNamara Bros., Fair Haven, Vt.

Discs (Turntable)

Reeves, Paul S., & Son, 1415 Catharine, Phila., Pa.

Discs (Valve)

AMERICAN-GOETZE GASKET & PACKING CO. ("Goetze's" Copper Asbestos or Nickel), 532 E 149th, New York. (See adv. index, end of book)
 American Hard Rubber Co., 9 Mercer, New York
BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
 Bushnell, Jno. S. & Co. ("Tuf Metal"), 227 Fulton, New York
 Continental Rubber Works, Erie, Pa.
 Dayton Rubber Mfg. Co., Dayton, O.
 Goodrich, B. F. Co., Akron, O.
 Jenkins Bros., 71 John, New York
JOHNS-PRATT CO., THE, Hartford, Conn.
 Lihhy Valve & Packing Co., Niantic, Conn.
 Morgan & Wright (Inc.) ("Morganite"), Detroit, Mich.
 National Tube Co. (Copper "Jenkins"), Plattsburg, Pa.
 Never-Leak Disc Co. ("Never-Leak" Composition Metal), 1028 Susquehanna, Phila., Pa.
 New York Belting & Packing Co., 91 Chambers, New York
 Nichols Mfg. Co., 225 Dearborn, Chicago, Ill.
 Peerless Rubber Co., 16 Warren, New York
PENNSYLVANIA RUBBER CO. (Rubber), Jeannette, Pa. (See adv. index & branch offices, end of book)
STRONG MACHINERY & SUPPLY CO. ("Strong's I. O. P."), 48 Franklin, New York. (See adv. index, end of book)
 Western Rubber Wks. (Rubber), Goshen, Ind.

Dishes (Chafing)

American Electrical Heater Co. (Electric), 123 State, Detroit, Mich.
 Buckeye Aluminum Co. (Aluminum), Doylestown, Pa.
 Buffalo Mfg. Co., Buffalo, N. Y.
 Central Stamping Co., 174 Fulton, New York
 Clayton & Co. ("Travelers"), 421 Kent av, Brooklyn, N. Y.
 Goodwin & Kintz Co., Winsted, Conn.
 Griswold Mfg. Co. (Aluminum), Erie, Pa.
 International Silver Co., 9 Maiden la, New York
 Lalance & Grosjean Mfg. Co. (Enamel), 299 B'way, New York
 Landers, Frary & Clark ("Universal"), New Britain, Conn.
 Manning, Bowman & Co., Meriden, Conn.
 Republic Metalware Co. (Aluminum), Buffalo, N. Y., & 21 Cliff, New York
 Sternau, S., & Co., 195 Plymouth, Brooklyn, N. Y.
 Sweeney, W. H. Mfg. Co. ("Royal," Copper & Nickel Plated, etc.), 66 Water, Brooklyn, N. Y.
 Wallace, R. & Sons Mfg. Co., Wallingford, Conn.

Disinfectants

Am. Aromatic Disinfectant, 428 Walnut, Phila., Pa.
 Antozone Chemical Co., 25 Coenties sl, New York
 Armltage Mfg. Co. (Paint), Richmond, S. I., N. Y.
 Atlantic Refining Co., Citizens' bldg, Cleveland, O.
 Barrett Mfg. Co., Philadelphia, Pa.
 Brownson Chemical Co., Providence, R. I.
 Burch, F. S. & Co., Chicago, Ill.
 Chemical Mfg. Co., Minneapolis, Minn.
 Coal Tar Products Co. (Smith & Creamer), Brooklyn, N. Y., & 77 Maiden la, New York
 Corbin Disinfecting Co. ("Naphthol-Phenoline"), 229 S Front, Phila., Pa.
 Cremoline Mfg. Co., 2113 Olive, St. Louis, Mo.
 Cromwell-Walker Co., Harrison, N. J.
 Dayton, Wm. H., Corlett, Cleveland, O.
 Durfee Embalming Fluid Co., Grand Rapids, Mich.
 Duseuberry, H. C., 95 Gold, New York
 Eagle Oil & Supply Co. ("Eagleine"), 104 Broad, Boston, Mass.
 Easton, A. D. Co., Cincinnati, O.
 Egyptian Chemical Co., Boston, Mass.
 Embalmers Supply Co., Westport, Conn.
 Empire Embalming Fluid Co., 111 Water, New York
 Farhenfarbriken of Elberfeld Co. ("Antinonin"), 66 Lafayette, New York
 Fitch Chemical Co., Bay City, Mich.
 Fuerst Bros. & Co., 2 Stone, New York
 Godfrey Disinfectant & Chemical Co., St. Louis, Mo.
 Good, James, 939 N Front, Phila., Pa.
GROSCHKE, BRUNO & CO., 13 Jones la, New York. (See adv. index, end of book)
 Houghton, E. F. & Co. ("Houghton" Odorless), 240 Somerset, Phila., Pa.
 Hunt Mfg. Co., 4099 Pearl rd, S. W., Cleveland, O.
 Hygela Chemical Co., 259 W 22d, New York
 Hygela Naphthol Co., 149 Mercer, New York
 Hygeno Disinfectant Co., Citizens' bldg, Cleveland, O.
 Hyio Disinfectant Co., Marshalltown, Ia.
 Indianapolis Chemical Co., Indianapolis, Ind.
 Kathario Chemical Co., 262 Pearl, New York
 Lyons Disinfecting Co., 82 Greenwich av, New York
 Masury, Young & Co., 196 Milk, Boston, Mass.
 Minor, W. E., & Co., 800 Long av, N. W., Cleveland, O.
 Monahan Antiseptic Co., 123 Liberty, New York
 National Disinfecting Co., 306 E 59th, New York
 Numbers Disinfectant Co., 4109 Prospect av, S. E., Cleveland, O.
 Ohio Paint & Varnish Co. ("Superior" Liquid), Findlay, O.
 Omnia Chemical Co., 133 Reade, New York
 Parke, Davis & Co., Detroit, Mich.
 Phinotas Chemical Co., 237 Front, New York
 Platt, Henry B., 42 Cliff, New York
 Plunkett Chemical Co., 2243 Cottage Grove av, Chicago, Ill.
 Prescott Chemical Co., Cleveland, O.

Rath Mfg. Co. ("Rathola," Liquid), Hedley & Richmond, Phila., Pa.
 Red Cross Hygienic Co., Chicago, Ill.
 Rice, George A., 2131 Market, Phila., Pa.
 Robachers' Disinfectant Co., 77 Kenil av, Rochester, N. Y.
 Robbins Chemical Co., 505 W 50th, New York
 Rochester Germicide Co., Rochester, N. Y.
 Sanitas Co., 640 W 55th, New York
 Soudan Specialty Mfg. Co., Milwaukee, Wis.
 Sulpho-Naphthol Co., 4 Merrimac, Boston, Mass.
 Sutar Co., 210 E 54th, New York
 Summerville Fernoline Works, Summerville, S. C.
 Syracuse Ext. Co., Syracuse, N. Y.
 United Breeders Co. of America (Inc.), 151 E Kinzie, Chicago, Ill.
 United Disinfecting Co., 210 E 35th, New York
 Vapo-Cresoline Co., 180 Fulton, New York
 Waeide, Herman, 732 Frankfort av, N. W., Cleveland, O.
 West Disinfecting Co. (Inc.), 9 E 59th, New York
 White Tar Co., 5 Front, New York
 World Disinfectant & Insecticide Co., 2025 Ridge av, Phila., Pa.
 World Mfg. Co., 2001 Ridge av, Phila., Pa.
 Worrell Mfg. Co., Sedalia, Mo.

Disinfecting Apparatus

(See also Machinery, Disinfecting)

American Sterilizer Co., Erie, Pa.
 Bernsteln Mfg. Co. (For Hospitals), 3d & Westmoreland, Phila., Pa.
 Hydro-Pneumatic Disinfecting Co., 221 Mercer, New York
VOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge W., Detroit, Mich.
 (See adv. index, end of book)

Disintegrators

American Clay Machinery Co. (Clay), Bucyrus, O.
 Brewer, H. & Co. (Clay), Tecumseh, Mich.
 Campbell, Peter F. (Mill), 51 Laurel, Phila., Pa.
 Chambers Bros. Co. (Clay), 52d, bel. Lancaster av, Phila., Pa.
 Codd, E. J. Co. (For Fertilizer Plants), 700-708 S Caroline, Baltimore, Md.
 Day, J. H. Co., 1144 Harrison av, Cincinnati, O., & 76 Park pl, New York
 Fate, J. D. (Clay), Plymouth, O.
HILL & GRIFFITH CO. (For Sand), Cincinnati, O. (See adv. index, end of book)
 Horton Mfg. Co. (Clay), Painesville, O.
JEFFREY MFG. CO. (Coal, etc.), Columbus, O. (See adv. index & branch offices, end of book)
 Link Belt Co. (For Coal, etc.), W. 39th cor Stewart av, Chicago, Ill., & 299 B'way, New York
 Marquette, Jno. N., 507 S Eden, Baltimore, Md.
 Martin, Henry Brick Machine Mfg. Co. (Clay), Lancaster, Pa.
 Paxson, J. W. Co. (Sand), 1021 N. Del. av, Phila., Pa.
 Potts, C. & A. & Co. (Clay), Indianapolis, Ind.
 Rockwood Mfg. Co., Indianapolis, Ind.
 Ross, Chas. & Son Co., 20 Steuben, Brooklyn, N. Y.
 Ross-Keller Triple Pressure Brick Machine Co., Fullerton bldg, St. Louis, Mo.
 Standard Sand & Machine Co. (Sand, Standard Centrifugal), 5157 St. Clair, Cleveland, O.
 Stedman's Foundry & Machine Works (Clay), Aurora, Ind.
 Steele, J. C. & Son, Statesville, N. C.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
 Walker & Elliott, Wilmington, Del.
 Warnoth, Frank S. (Sugar Cane), Morris bldg, New Orleans, La.
 Wellington Machine Co. (Clay), Wellington, O.

Display Fixtures

(See Window Display Fixtures)

*Distilling Apparatus

(See also Still of Various Kinds)

GRISCOM-SPENCER CO. (Water, also Salt Water), 90 West, New York, & ft. Washington av, Philadelphia, Pa. (See adv. index & branch offices, end of book)

Ditcher, Grader & Loader Combined

American Road Machine Co., Kennett Square, Pa.
 Indiana Road Machine Co., Fort Wayne, Ind.
 Marlon Steam Shovel Co., Marlon, O.
 Western Wheeled Scraper Co., Aurora, Ill.

Ditching Machines

(See Ditching Machines in Machinery Lists; also Road Machines & Graders)

Divers (Submarine)

Alaska Co., Seattle, Wash.
 Boston Towboat Co., 131 State, Boston, Mass.
 Bundick, Jno. S., 49 South, New York.
 Christensen, E. T., 130 Pearl, New York
 Craemer, Fred., 1220 Beach, Philadelphia, Pa.
 Dunham Towing & Wrecking Co., 210 S Water, Chicago, Ill.
 Jenks, Edward B. Co., 143 Liberty, New York
 Larkin, Peter, 3 Coenties Slip, New York
 Lowe, Edward R., 806 Herkimer, Brooklyn, N. Y.
 Merritt & Chapman Derrick & Wrecking Co., 17 Battery pl, New York
 Nickerson, Jas. E. & Co., 195 Atlantic av, Boston, Mass.
 Phillips, H. W., 16 Devonshire, Boston, Mass., & Quincy, Mass.
 Quinn, J. S. & Co., 15 W Atwater, Detroit, Mich.
 Scott, Thos. A. Co., New London, Conn.
 Sorenson, Alfred, 38 Atlantic av, Boston, Mass.
 Townsend, Geo. W., 202 Atlantic av, Boston, Mass.
 Webster, Frank W., 169 Princeton, Boston, Mass.
 Woiter, H., 318 Walnut, Phila., Pa.

Dividers

(See also Compasses)

Athol Machine Co. ("Premier" & "A. M. C."), Athol, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Eagan, Thos. F. ("Copeland & Cook" Expansion), Worcester, Mass.
 Johnson, Wm. (Hedenberg Works), ("Cook's" Pattern Expansion Wing, etc.), Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Schollborn, Wm. Co. ("Excelsior"), New Haven.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)
 Welles, F. A., 419 Sycamore, Milwaukee, Wis.

Diving Apparatus

Hale, Alfred Rubber Co., 17 Covington, S. B., Boston, Mass.
 Merrill-Stevens Engineering Co., Jacksonville, Fla.
 Morse, A. J. & Son (Inc.), 221 High, Boston, Mass.
 Schrader's, A. Son., 30 Rose, New York

Dock Builders

CALIFORNIA.

SAN FRANCISCO—American Dredging Co., 6 East City Street Improvement Co., 17th & Harrison
 Healy-Tibbetts Construction Co., Mission st dock or Mason & North Point
 Hyde, Harjes & Co., 112 Market
 Laydon, Darby, 219 Steuart
 McMahon, James A., 13 Steuart
 Pacific Construction Co., 16 Cal.
 San Francisco Bridge Co., Monadnock bldg
STEWART, JAS. & CO., 709 Mission
 Thomson Bridge Co., 103 Main
 Wakefield, Robert, 178 Spear

COLORADO.

DENVER — **STEWART, JAS. & CO.,** Century bldg

CONNECTICUT.

BRIDGEPORT—Blackman, M. A., 985 Stratford av
 Toole & Sunderlin, 83 Fairfield av
NEW HAVEN—New Haven Rigging Co.
 Waterhouse, C. R., Jr., 40 Park
NEW LONDON—Scott, Thomas A. Co.

DELAWARE.

WILMINGTON—Wills, F. K., Construction Co.

FLORIDA.

JACKSONVILLE—Cotter, Wm. T.

GEORGIA.

SAVANNAH—Ross, P. Sanford

ILLINOIS.

CHICAGO—Barry Bros. Dock Co., E end Mich. Fitzsimons & Connell Co., 1012 Tacoma bldg
 Great Lakes Dredge & Dock Co., Chamber of Commerce bldg
 Holcomb Engineering Co., 9 Jackson boult
 Kearns, T. A. Co., 279 Dearborn
 Stebbings, W. L. (Coal, Ore, etc.), Monadnock blk
STEWART, JAS. & CO., Fisher bldg

LOUISIANA.

NEW ORLEANS—**STEWART, JAS. & CO.**

MAINE.

PORTLAND—Bennett, W. F. & Son

MARYLAND.

BALTIMORE—Glenn, Benj., 2300 E Baltimore
 McLean Contracting Co., Maryland Trust bldg
 Maryland Dredging & Contracting Co., Fidelity bldg
 Sanford & Brooks Co., 24 Commerce

MASSACHUSETTS.

BOSTON—Cavanagh Bros., 471 Dorchester av
 Cavanagh, Geo. H., 166 Devonshire
 Cram, D. Henry, 23 Power
 Derry, Chas. T. & Co., 68 Devonshire
 Ellis, W. H., 17 Milk
 Hayes, Geo. Co., 166 Devonshire
 Hersey, A. A., 302 Border
 Lawler Bros, 16 City sq, Ch's'n
 Miller, Wm. L., 166 Devonshire
 Norton, W. A., 285 Dorchester av
 Rendle, W. S. Co., 135 Prescott
 Ross, Joseph Corp., 28 School
 Ruggles, Thos. E., 95 Milk
 Tidd, L. R., 166 Devonshire
CAMBRIDGE—Scully, Jno. T. Foundation & Transportation Co.

FALL RIVER—Terry, Jos. C., 564 Durfee

MICHIGAN.

DELRAY—Boston, Chas. & Son
DETROIT—Candler Dock & Bridge Bldg. Co., 26 Lafayette av

Dupuis, A. J. Co., Buhl bik
 Ginzel, John, Co., 46 Buhl bldg
 Griffin, M. J., 169 Stanton av

GRAND RAPIDS—Savage, E. J., 344 1st
MARQUETTE—Powell & Mitchell
SAULT STE. MARIE—Great Lakes Dredge & Dock Co.

MINNESOTA.

DULUTH—Duluth-Superior Dredging Co., ft 6th av, W
 Great Lakes Dredge & Dock Co.

MISSOURI.

ST. LOUIS—**STEWART, JAS. & CO.,** New Nat'l Bank of Commerce bldg

NEW JERSEY.

CAMDEN—Henhoeffer & Vaugh, c Delaware & Vine
 Sweeten, B. F. & Son, Cooper & Delaware
JERSEY CITY—Ross, P. S., 277 Washington
 Stillman, F. M. Co., 26 Exchange pl
 United Contractors Corporation
PERTH AMBOY—Hanson, Jacob

NEW YORK.

BUFFALO—Buffalo Dredging Co., D. S. Morgan bldg
 Chapman, A. F. & Co., Prudential bldg
 Harbrecht, Louis, 368 Connecticut
 Lake Erie Dredging Co., D. S. Morgan bldg
 Parks, Geo. & Sons, 217 15th
KINGSTON—Powley, Jos. L., Construction Co., 1 Ponckhockie
NEWBURGH—Parrott, Richard, 355 B'way

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Cronin, Barth S. & Co., 573 Cln-Humphreys, George 575 Clinton ton
 Kirkham, H. P. & Son, ft of Conover
 Leary, Jas. D. & Son, Provost nr Eagle
 Walsh, John D., 397 Hancock

Boroughs of Manhattan & Bronx.

NEW YORK—Brooks, F. L., & Co., 258 E 138th
 Brunswick Dock & City Improvement Co.,
 Degnon Contracting Co., 60 Wall 20 Broad
 Empire Eng. Corporation, 60 Wall
 Foundation Co. (Engineers & Contractors,
 Concrete Piles & Steel & Wooden Sheet-
 ings), 115 B'way
 General Contracting & Engineering Co.,
 Hudson Terminal bldg
 Hanover Land & Dock Co., 35 Wall
 Hazell, Arthur M., 11 B'way
 Hood, R. H. Co., 299 B'way
 Jenks-Asserson Construction Co., 59 Pearl
 Monks, John & Sons, 82 Beaver
 Morris Heights Dock Co., 170 B'way
 New Jersey Terminal Dock & Improvement
 Co., 62 Cedar
 Rogers, G. W. & Co., 44 B'way
 Rolf, Bernard, 39 Cortlandt
 Seely-Taylor Co., 78 Broad
 Spearin & Preston, 90 West
 Staats, R. P. & J. H., 29 B'way
STEWART, JAS. & CO., 30 Church

Borough of Queens.

LONG ISLAND CITY—Hart, Hugh, 150 Pear-
 sail

Borough of Richmond.

PORT RICHMOND—Conklin, Hiram M., Rich-
 mond ter

OHIO.

ASHTABULA—Lalrd, Jas. G. & Sons
CLEVELAND—American Construction Co.,
 Rockefeller bldg
 Carey Construction Co., Electric bldg
 Great Lakes Dredge & Dock Co., 1630
 Williamson bldg
 Hunkin Bros. Construction Co., Cuyahoga
 bldg
 Standard Contracting Co., Wade bldg
 Strong, Chas. H. & Son, Cuyahoga bldg
TOLEDO—Great Lakes Dredge & Dock Co.

PENNSYLVANIA.

CHESTER—Roberts, Edward H.
PHILADELPHIA—American Dredging Co.,
 Mariner & Merchant bldg
 Armstrong & Latta, Land Title bldg
 Atlantic Dredging Co., Girard bldg
 Brennenman, J. E., 1523 S Front
 Rotan, I. F., 307 S 41st
PITTSBURG—Enterprise Contracting Co., Ful-
 ton bldg
 Pittsburgh Dredging & Construction Co.,
 1108 Hartje bldg
STEWART, JAS. & CO., Westing-
 house bldg

RHODE ISLAND.

PROVIDENCE—Stender, Frank C., & Co., 139
 Rhodes
 Tank & McKinnon Construction Co., 236
 Industrial Trust bldg
SAUNDERSTOWN—Saunders, Stillman
WESTERLY—Davis, John F., 55 Clark

SOUTH CAROLINA.

CHARLESTON—Kramer, B. F., 60 Meeting
VIRGINIA.

NORFOLK—Murray, W. D. & Co.
 Sanford & Brooks Co.
URBANNA—Wagner, L. B.

WASHINGTON.

SEATTLE—International Contract Co., N. Y.
 blk
 Puget Sound Bridge & Dredging Co., 95
 Yesler Way

WISCONSIN.

MILWAUKEE—Hathaway, J. E. & Co., Canal,
 W 1st av
 Starke, C. H. Dredge & Dock Co., Canal W
 SUPERIOR—Schmidt Bros., Hill 1st av
 Whitney Bros. Co., 1st & Huglitt av

Dogs (Bench)

Stortz, John, & Son, 210 Vine, Phila., Pa.

Dogs (Bent Tail)

Le Count, Wm. G., S. Norwalk, Conn.

Dogs (Bolt)

Le Count, Wm. G., South Norwalk, Conn.

Dogs (Clamp)

Armstrong Bros. Tool Co., 104 N San Francisco
 av, Chicago, Ill.
 Billings & Spencer Co. (Drop Forged), Hart-
 ford, Conn.
 Fitchburg Machine Works, Fitchburg, Mass.
 Le Count, Wm. G. (Steel & Malleable Iron),
 South Norwalk, Conn.

Dogs (Die)

Billings & Spencer Co. (Drop Forged), Hart-
 ford, Conn.
 Fitchburg Machine Works, Fitchburg, Mass.
 Putnam Machine Co., Fitchburg, Mass.

Dogs (Lathe)

Armstrong Bros. Tool Co., 104 N San Francisco
 av, Chicago, Ill.
 Ayes & Co. ("Le Count" Pattern), 57 Ellen,
 Chicago, Ill.
 Besly, Chas H. & Co. (Heavy Steel), 15 S. Clin-
 ton, Chicago, Ill.
 Billings & Spencer Co. (Drop Forged), Hartford,
 Conn.
 Bonney Vise & Tool Works ("Indispensable"
 Drop Forged, etc.), Allentown, Pa.
 Chester Steel Castings Co., Chester, Pa., & 407
 Sansom, Phila., Pa.
 Hill Standard Mfg. Co. ("Hill" Drop Forged),
 Anderson, Ind.
 Krus, Andrew F. & Co., 198 W Clybourn pl
 Chicago, Ill.
 Le Count, Wm. G. (Double Tail Heavy Steel),
 South Norwalk, Conn.
 Mark Mfg. Co., Evanston, Ill.
 O. K. Tool Holder Co., Shelton, Conn.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Williams, J. H. & Co. (Drop Forged), 150 Ham-
 ilton av, Brooklyn, N. Y.

Dogs (Rafting)

CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end
 of book)
 Champion Tool & Handle Works, Evart, Mich.
 New Castle Forge & Bolt Co. (Also Chain),
 New Castle, Pa.
 Southern Supply Co. (Rafting), Mobile, Ala.
 Warren Axe & Tool Co., Warren, Pa.
 Zelnicker, Walter A. Supply Co. (Chain &
 Ring), 408 N 4th, St. Louis, Mo.

Dogs (Ring)

Hayden-Corbett Chain Co. ("Baltimore"), Colum-
 bus, O.
 New Castle Forge & Bolt Co., New Castle, Pa.

Dogs (Saw Mill)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
 American Sawmill Machinery Co. ("American"
 Giant Duplex & "Knight's"), 50 Church
 New York. Works: Hackettstown, N. J.
 Atkins, E. C. & Co. (Inc.), Home Offices &
 Factories, Indianapolis, Ind.
 Bangor Edge Tool Co. ("The Peavy"), Bangor,
 Me.
 Canton Saw Co., Canton, O.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Diamond Iron Works ("Diamond & Ditten-
 benner"), Minneapolis, Minn.
 Disston, Henry & Sons (Inc.), Tacony, Phila.,
 Pa.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Filer & Stowell Co., Home Office, Milwaukee,
 Wis.
 Fisher & Davis ("Knight"), 1024 N Main, St.
 Louis, Mo.
 Frick Co., Waynesboro, Pa.
 Garland, M. Co. (Double Grip), Bay City,
 Mich.
 Henderson, W. K. Iron Works & Supply Co.,
 Shreveport, Iowa
 Hill, W. E. & Co. (Double Tooth), Kalamazoo,
 Mich.
 Hinds, Thos., Malone, N. Y.
 Howell, R. R. & Co., 31st av, cor. S E 4th
 Knight Mfg. Co., Canton, O.
 Lane Mfg. Co., Montpelier, Vt.
 Lippert, E. T. Saw Mfg. Co., Bennett, Pa.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Rockwood Mfg. Co., Indianapolis, Ind.
 Sinker-Davis Co., 230 S Missouri, Indianap-
 olis, Ind.
 Soule Steam Feed Works, Meridian, Miss.
 Southern Engine & Boiler Works (Inc.), Jack-
 son, Tenn.

Southern Hardware & Supply Co., Mobile, Ala.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Stearns Co., The, Erie, Pa.
 Wheland Machine Works, Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.

***Dogs (Stone)**

CARLIN'S, THOS. SONS CO., 1610 River
 av (North Side), Pittsburg, Pa. (See adv.
 index, end of book)

Dogs (Straight Tail)

Bonney Vise & Tool Works (Steel), Allentown,
 Pa.
 Le Count, Wm. G. (With Steel Screws), South
 Norwalk, Conn.

Dogs (Thread Cutting Machine)

Peterson, H. L., Elgin, Ill.

Dogs (Timber)

American Iron & Steel Mfg. Co., Lebanon &
 Reading, Pa.
ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)
 Baker, Jas. H. Mfg. Co., Tarentum, Pa.
CARPENTER, GEO. B. & CO., 202
 Water, Chicago, Ill. (See adv. index, end
 of book)
 Champion Tool & Handle Works, Evart, Mich.
 Metropolitan Bolt Co., 367 Congress, Boston
 New Castle Forge & Bolt Co. (Also Chain),
 New Castle, Pa.
 Old Dominion Iron & Nail Works Co., Richmond,
 Va.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Oshkosh Logging Tool Co., Oshkosh, Wis.
 Southern Hardware & Supply Co. (Rafting),
 Mobile, Ala.
 Standard Chain Co., Pittsburg, Pa.
 Wickes Bros., Saginaw, Mich.

Dollies (Lumber)

Anderson, W. H. Tool & Supply Co., 14 Ma-
 comb, Detroit, Mich.
 Buda Foundry & Mfg. Co., Harvey, Ill.
CARPENTER, GEO. B. & CO., 202
 S Water, Chicago, Ill. (See adv. index, end
 of book)
DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Gerlach, Peter Co., Columbus rd & Winter,
 Cleveland, O.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Morley Bros., Saginaw, Mich.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Payne & Joubert, New Orleans, La.
 Soule Steam Feed Works, Meridian, Miss.
 Union Elevator & Machine Co., 144 Ontario,
 Chicago, Ill.

***Domes (Revolving, for Observa-
 tories)**

KRATZER, W. N. & CO. (Steel), 3218
 Smallman, Pittsburg, Pa. (See adv. index,
 end of book)

***Door Bolts (Double Acting
 Emergency Fire Exit)**

COLUMBIA IRON & WIRE WORKS CO.,
 Canton, O. (See adv. index, end of book)

Door Bumpers

Ashtabula Mfg. Co. ("Hubbard's" Patent
 Metallic Seamless), Ashtabula, O.
 Elastic Tip Co., 370 Atlantic av, Boston, Mass.

Door Check & Spring Mfrs.

Barnett, Oscar Foundry Co. ("Barnett Pneu-
 matic"), Newark, N. J.
 Bardsley, Jos., 149 Baxter, New York

BOMMER SPRING HINGES

255 to 271 Classon av, Brooklyn, N. Y. (See
 adv. index, end of book)
 Caldwell Mfg. Co. (Checks, "Dime," "Cald-
 well"), Rochester, N. Y.
 Chicago Spring Butt Co., 54 Union Park pl.
 Chicago, Ill.

Corbln, P. F., New Britain, Conn.
General Specialty Co. ("Dorecheck"), 14 S 4th, Phila., Pa.
Middletown Mfg. Co. ("Gerat"), Middletown, Ohio
Norton Door Check Co., 102 Pearl, Boston, Mass.
Pryor, W. W. Hardware Mfg. Co., 23 Ashland, Newark, N. J.
Pullman Mfg. Co., Rochester, N. Y.
Reading Hardware Co. ("Ogden"), Reading, Pa.
Rlxson, Oscar C. Co. ("Rlxson" Liquid, Single & Double Acting), 111 W Harrison, Chicago, Ill.
Russell & Erwin Mfg. Co. ("Russwin" Liquid), New Britain, Conn., & 96 Lafayette, New York
Sargent & Co., 94 Centre, New York, & New Haven, Conn.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Yale & Towne Mfg. Co. ("Blount" Liquid), 9 Murray, New York

*Door Closers

BOMMER SPRING HINGES

255 to 271 Classon av, Brooklyn, N. Y.
(See adv. index, end of book)

Door Hangers

Allith Mfg. Co. ("Reliable"), W Taylor c S 43d av, Chicago, Ill.
Arcade Mfg. Co. ("New Warner", "Freeport", Parlor), Freeport, Ill.
Burkhardt, John (Bronze), 614 W 55th, New York
Central City Bolt Co. ("The Barry"), Syracuse, N. Y.
Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.
CHISHOLM & MOORE MFG. CO., 49th & Lake, Cleveland, O. (See adv. index, end of book)
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Coleman Hardware Co. (Barn), 168 Michigan av, Chicago, Ill.
Cronk & Carrler Mfg. Co., Elmira, N. Y.
Davidson & Willeur, Ashland, O.
Dille & McGulre Mfg. Co. (Trackless), Richmond, Ind.
Dix Mfg. Co. ("Dix" Noiseless), Baltimore, Md.
Gardner-Champlin Co., First National Bank bldg, Chicago, Ill.
Griffin Mfg. Co., Erie, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hendricks & Class, 25 W B'way, New York
Lane Bros. Co., Poughkeepsie, N. Y.
Lawrence Bros. (Also Roller Bearing), Sterling, Ill.
Louden Machinery Co., Fairfield, Ia.
McCABE HANGER MFG. CO. (Ball-Bearing & Tubular), 425 W 25th, New York (See adv. index, end of book)
McKinney Mfg. Co. (Barn Door), Allegheny, Pa.
Myers, F. E. & Bro. (Flexible "Stayon", "O K. Tandem", "Sure Grip", "Sure Grip Adjustable", "Roller Bearing"), Ashland, O.
National Mfg. Co. ("Silent"), Sterling, Ill.
NEWHALL, HENRY B., 90 West, New York
Ney Mfg. Co., Canton, O.
Pacific Tank Co. ("Pitcher" Sliding), San Francisco, Cal.
Payne, Wm. M. (Barn), Springfield, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Porter, J. E. Co., Ottawa, Ill.
Prescott Hardware Mfg. Co., 78 Randolph, Chicago, Ill.
Prouty, T. C. Co. (Ltd.) (Ball & Roller Bearing), Alhlon, Mich.
Reading Hardware Co., Reading, Pa.
Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York
Richards Mfg. Co. (Ball Bearing), Aurora, Ill.
Richey, Browne & Donald (Crescent), Maspeth, Borough of Queens, New York City
Roof, W. S. (Sliding or Folding Door or Partition), Franklin, O.
Safety Door Hanger Co. ("World's Best" & "Wizard" Adjustable), Ashland, O.
Schwarz, S. D. & Co. ("Atlas"), 1133 B'way, New York
Strickler Hay Tool Co. ("Strickler"), Janesville, Wls.

Sharon Hardware Mfg. Co. ("Sharon" Flexible), Sharon, Pa.
Stearns, E. C. & Co. ("Warner's" Parlor Door), Syracuse, N. Y.
Stowell Mfg. & Foundry Co. ("Willborn Adjustable", "Ajax Hinged", "Matchless Loose Axle", "Nansen's" & "Atlas" Roller Bearing), South Milwaukee, Wis.
Swett, A. L. Iron Works, Medina, N. Y.
Swineford, G. A. Co. ("Hinge-Stay-On"), Canton, O.
Victor Mfg. Co., Newburyport, Mass.
WHITMAN & BARNES MFG. CO. ("W. & B. Swing"), West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)
Whitaker Mfg. Co. ("Whitaker"), 30 W Monroe, Chicago, Ill.
Wilcox Mfg. Co. (Ball Bearing, House, "Cracker Jack", "O. K.", "Wilcox", "Wilcox Stay-on", "Wilcox Tandem", "Wilcox World Wide"), Aurora, Ill.
Wrightsville Hdwre. Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

*Door Hangers (Accordion or Folding)

McCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. index, end of book)

Door Hangers (Auditorium)

Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Wilcox Mfg. Co. (Folding), Aurora, Ill.

Door Hangers (Barn or Warehouse)

Allith Mfg. Co. ("Reliable"), W Taylor c S 43d av, Chicago, Ill.
American Foundry & Mfg. Co., 11th & Herbert, St. Louis, Mo.
Arnold Co. ("Arnold", "Best", "Boss", "Duplex", etc), Norwalk, Conn.
Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.
CHISHOLM & MOORE MFG. CO. (Warehouse Only), 49th & Lake, Cleveland, O. (See adv. index, end of book)
Coburn Trolley Track Mfg. Co. ("Coburn"), Holyoke, Mass.
Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
Cronk & Carrler Mfg. Co. (Steel Roller Bearings & Loose Axle), Elmira, N. Y.
Griffin Mfg. Co., Erie, Pa.
Hacking Mfg. Co. ("Peerless"), Prior & Oakley avs, St. Paul, Minn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hunt, Helm, Ferris & Co. ("Star", "U. S.", "Giant", "Knoxall", "20th Century", Plain & Ball Bearing), Harvard, Ill.
Hurst, H. L. Mfg. Co., Canton, O.
Kupferle, Jno. C. Foundry Co., St. Louis, Mo.
Lane Bros. Co., Poughkeepsie, N. Y.
Lawrence Bros. ("Clipper" also Roller Bearing), Sterling, Ill.
Louden Machinery Co. ("Louden", "Royal"), Fairfield, Ia.
McCABE HANGER MFG. CO. (Ball-Bearing, etc.), 425 W 25th, New York. (See adv. index, end of book)
McKinney Mfg. Co., Allegheny, Pa.
Myers, F. E. & Bro. ("Myers", "Stay On", "O. K.", "Sure Grip"), Ashland, O.
National Mfg. Co. ("National", "Big 4", Flexible, Anti-Friction), Sterling, Ill.
New England Butt Co. ("New England"), Providence, R. I.
NEWHALL, HENRY B., 90 West, New York
Ney Mfg. Co., Canton, O.
Payne, Wm. M., Springfield, Ill.
Peck, Stow & Wilcox Co. ("P. S. & W."), Southington, Conn.
Penn Hardware Co., Reading, Pa.
Porter, J. E. Co. ("Can't get off" & "Porter's"), Ottawa, Ill.
Prouty, T. C. Co. (Ltd.) (Roller Bearing), Alhlon, Mich.
Racine Malleable & Wrought Iron Co. ("Wilbern"), Racine, Wls.
Reading Hardware Co., Reading, Pa.
Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York

Richards Mfg. Co. ("Acme", "Ajax", "Duplex", "Everon", "Gem", "Richards", "Boss", "Richards", "Peerless", "King", "Samson", "Standard", "Superior", "Shur-on", "U. S.", "Victor", "World", "Richards' Ball Bearing"), Aurora, Ill.
Richey, Browne & Donald ("Crescent"), Maspeth, Borough of Queens, New York City
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Safety Door Hanger Co. ("Safety", "Storm King", "World's Best", "U. S. Standard", "Wizard", "Adjustable"), Ashland, O.
Sargent & Co., New Haven, Conn.
Schrelber & Conchar Mfg. Co., Dubuque, Ia.
Sharon Hardware Mfg. Co. ("Sharon" Flexible), Sharon, Pa.
Strickler Hay Tool Co. ("Strickler"), Janesville, Wls.
Stowell Mfg. & Foundry Co. ("Ajax", "Nansen", "Rex", "Wilbern", "Matchless", "Wilbern Adjustable", "Wild West" & "Matchless"), S Milwaukee, Wls.
Swett, A. L. Iron Works ("Pilot"), Medina, N. Y.
Swineford, G. A. Co. ("Hinge-Stay-On"), Canton, O.
Taylor & Boggis Foundry Co., Cleveland, O.
Union Mfg. Co. ("Union"), New Britain, Conn.
Victor Mfg. Co., Newburyport, Mass.
Whitaker Mfg. Co. ("Whitaker"), 30 W Monroe, Chicago, Ill.
WHITMAN & BARNES MFG. CO. ("W. & B. Swing"), West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)
Wilcox Mfg. Co. ("Cracker Jack", "L. T.", "O. K.", "Wilcox", "Wilcox-Spencer", "Wilcox-Tandem", "Wilcox-Stay-On", Trolley Roller Bearings, "Wilcox World Wide", etc.), Aurora, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

Door Hangers (Car)

CHISHOLM & MOORE MFG. CO. ("Moore's" Baggage Door), 49th & Lake, Cleveland, O. (See adv. index, end of book)
Jones Car Door Co., Monadnock blk, Chicago, Kanaly, M. E. Co., Cambridgeport, Mass.
McCABE HANGER MFG. CO. (Ball-Bearing, etc.), 425 W 25th, New York. (See adv. index, end of book)
NEWHALL, HENRY B., 90 West, New York
Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York

Door Hangers (Elevator)

CHISHOLM & MOORE MFG. CO. ("Moore's", Anti-Friction Roller Bearing), 49th & Lake, Cleveland, O. (See adv. index, end of book)
Lane Bros. Co., Poughkeepsie, N. Y.
McCABE HANGER MFG. CO. (Ball-Bearing, etc.), 425 W 25th, New York. (See adv. index, end of book)
NEWHALL, HENRY B., 90 West, New York
Perkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
Reliance Ball Bearing Door Hanger Co. ("Reliance"), 1 Madison av, New York
Richards Mfg. Co., Aurora, Ill.
Stowell Mfg. & Foundry Co. (Loose Axle & Roller Bearing), S Milwaukee, Wls.
Wilcox Mfg. Co. (Roller Bearing, etc.), Aurora, Ill.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wls. (See adv. index, end of book)

Door Hangers (Fire)

Allith Mfg. Co. (Automatic), W Taylor c S 43d av, Chicago, Ill.
Brewer Bros. (Sliding), 614 Filbert, Phila., Pa.
California Fire Proof Door Co. ("Wilcox"), Los Angeles, Cal.
Lane Bros. Co., Poughkeepsie, N. Y.
McCABE HANGER MFG. CO. (Ball-Bearing, etc.), 425 W 25th, New York. (See adv. index, end of book)
Myers, F. E. & Bro., Ashland, O.
NEWHALL, HENRY B., 90 West, New York
Peters, Jas. & Son (Sliding), 1934 N Front, Phila., Pa.
Prouty, T. C. Co. (Ltd.) (Roller Bearing), Alhlon, Mich.

Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York
 Richards Mfg Co. (Ball Bearing, also Fixtures), Aurora, Ill.
 Richmond Safety Gate Co. (Kyrle S. Evans, Agt.), 31 W. 27th, New York. Works: Richmond, Ind.
 Stowell Mfg. & Foundry Co. ("Wilbern Adjustable," "Underwriters"). S Milwaukee, Wis.
 Victor Mfg. Co., Newburyport, Mass.
 Wilcox Mfg. Co. (Every Description), Aurora, Ill.
WISCONSIN IRON & WIRE WORKS,
 190 E. Water, Milwaukee, Wis. (See adv. index, end of book)

Door Hangers (House)

(See Door Hangers, Parlor)

Door Hangers (Noiseless, House)

Reliance Ball Bearing Door Hanger Co. ("Reliance"), 1 Madison av, New York

Door Hangers (Parlor)

Arcade Mfg. Co. ("The Warner," also "Freeport"), Freeport, Ill.
 Central City Bolt Co. (Barry), Syracuse, N. Y.
 Coburn Trolley Track Mfg. Co., Holyoke, Mass.
 Dix Mfg. Co. ("Dix" Noiseless), Baltimore, Md.
 Lanc Bros. Co., Poughkeepsie, N. Y.
 Lawrence Bros. (Roller Bearing), Sterling, Ill.
 Luitank & Sons Mfg. Co., Milwaukee, Wis.
McCABE HANGER MFG. CO. (Ball-Bearing, etc.), 425 W 25th, New York. (See adv. index, end of book)
 National Mfg. Co. ("Silent"), Sterling, Ill.
NEWHALL, HENRY B., 90 West, New York
 Prouty, T. C. Co., Ltd. (Ball Bearing), Albion, Mich.
 Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York
 Richards Mfg. Co. (Ball Bearing), Aurora, Ill.
 Richey, Browne & Donall (Crescent), Maspeth, Borough of Queens, New York City
 Stearns, E. C. & Co. (Gem, Warners, Royal, Challenge & Sterns), Syracuse, N. Y.
 Stowell Mfg. & Foundry Co. ("Acme Adjustable," "Stowell"), S. Milwaukee, Wis.
 Wilcox Mfg. Co. (Trolley, Roller Bearing, etc.), Aurora, Ill.

Door Hangers (Sliding or Folding)

Allith Mfg. Co. ("Reliable"), Taylor c S. 43d av, Chicago, Ill.
 Dille & McGuire Mfg. Co. (McGuire Trackless), Richmond, Ind.
McCABE HANGER MFG. CO. (Ball-Bearing & Tubular), 425 W 25th, N. Y. (See adv. index, end of book)
NEWHALL, HENRY B., 90 West, New York
 Pacific Tank Co. ("Pitcher" Sliding), San Francisco, Cal.
 Reliance Ball Bearing Door Hanger Co. ("Reliance" Ball Bearing), 1 Madison av, New York
 Richey, Browne & Donald (Crescent), Maspeth, Borough of Queens, New York City
 Roof, Wm. S. (For Doors or Partitions), Franklin, O.

Door Hangers (Trolley & Track)

Myers, F. E. & Bro., Ashland, O.
NEWHALL, HENRY B., 90 West, New York
 Perkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
 Prouty, T. C. Co., Ltd., Albion, Mich.
 Richards Mfg. Co., Aurora, Ill.

Door Holders

(See Door Stops)

Door Knobs (Brass & Bronze)

Barrows Lock Co., Lockport, Ill.
 Brass Goods Mfg. Co., Nevins & Union, Brooklyn, N. Y.
 Chicago Hardware Co., North Chicago, Ill.
 Corbin Cabinet Lock Co., New Britain, Conn.
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
 Norwalk Lock Co., S Norwalk, Conn.
 Peck, Stow & Wilcox Mfg. Co., Southington, Penn Hardware Co., Reading, Pa. Conn.
 Reading Hardware Co., Reading, Penn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Centre, New York
 Schroeder, J. B. & Co., 133 E 5th, Cincinnati, O.
 Stover Manufacturing Co., Freeport, Ill.
 Taylor & Boggis Foundry Co., Cleveland, O.
 Waterbury Button Co., Waterbury, Conn.
 Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

Door Knobs (Porcelain)

Brunt, W. H., East Liverpool, O.
 Greenwood Pottery Co., Trenton, N. J.
 Standard China Works (Warren Klmble, Prop.), Trenton, N. J.
 Thomas, R. & Sons Co., East Liverpool, O.
 Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

Door Knobs (Screwless)

Meriden Spring Hinge Co., Meriden, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Centre, New York

Door Knobs (Wood)

Bardsley, Joseph, 149 Baxter, New York
 Novelty Turning Co., Norway, Me.
 Mossman, Jerome, Fitchburg, Mass.
 Piqua Handle & Mfg. Co., Piqua, O.

Door Knockers (Colonial)

Elm City Brass & Rivet Co., Plainville, Conn.
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
JACKSON, WM. H. COMPANY, 29 E 17 (Union sq), New York & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)
 Union Equipment & Bronze Co., 1901 Park av, New York

Door Numbers

(See Numbers & Letters, Metal)

Door Openers (Automatic)

Ives Mfg. Co., Detroit, Mich.
 Rischmuller, G. ("Rischmuller" Door Opener & Closer), Oakland, Cal.

Door Openers (Electric)

Boston Electric Co., 29 Harrison av, Boston, Mass.
BUNNELL, J. H. & Co., Park pl., & Church, New York. (See adv. index, end of book)
 Keil, Francis & Son, 667 E 163d, New York
 Ostrander, W. R. & Co., 22 Dey, New York
 Partrick, Carter & Wilkins, Phila., Pa.
 Stanley & Patterson ("S. & P."), 23 Murray, New York
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wilhelm, Henry, 72 Frost, Brooklyn, N. Y.

Door Pulls

(See Pulls, Door)

Door Screens

(See Screens, Door & Window)

Door Stops

Arcade Mfg. Co. ("Arcade" Door Holder for Barn Doors, etc.), Freeport, Ill.
 Bardsley, Joseph, 147 Baxter, New York
 Bleha Patent Door Stop Co., 2117 Blsmark, St. Louis, Mo.
 Brohard Co. (Brohard's), 1624 N 9th, Phila., Pa.
 Caldwell Mfg. Co. ("The Empire"), 8 Jones, Rochester, N. Y.

Champion Safety Lock Co. ("Champion" Floor), Geneva, O.
 Chapin-Stephens Co., Pine Meadow, Conn.
 Detroit Ship Building Co. (Bress Dept.), Detroit, Mich.
 General Specialty Co. ("B. & S."), 14 S 4th, Phila., Pa.
 Indiana Small Handle Wks, Fort Wayne, Ind.
 Judd, Rollin D., New Britain, Conn.
 King Mfg. Co., Newton, Iowa
 Lane Bros. Co., Poughkeepsie, N. Y.
 North Wales Machine Co. (Inc.), ("North Wales Door Holder"), North Wales, Pa.
 Norwalk Lock Co., South Norwalk, Conn.
 Piqua Handle & Mfg. Co. (Wood, Rubber Tip), Piqua, Ohio
 Pullman Mfg. Co., Rochester, N. Y.
 Reading Hardware Co., Reading, Pa.
 Richards Mfg. Co., Aurora, Ill.
 Rixson, Oscar C. Co. ("Rixson" Floor Check), 111 Harrison, Chicago, Ill.
 Russell & Erwin Mfg. Co. ("Ruswln"), New Britain, Conn., & 96 Lafayette, New York
 Union Hardware Co., Torrington, Conn.
 Wilcox Mfg. Co., Aurora, Ill.
 Yale & Towne Mfg. Co., 9 Murray, New York

Doors (Asbestos Lumber)

(See Asbestos Building Lumber)

Doors (Ash-Pit)

Barber Mfg. Co., Ashtabula, O.
 Bayley, Wm. Co., Springfield, O.
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
 Covert, H. W. & S. S., 266 Greenwich, New York
 Donaldson Bros., Mount Clemens, Mich.
 Forest City Foundry & Mfg. Co., Cleveland, O.
 Gehl Bros. Mfg. Co., West Bend, Wis.
 Jackson, Edwin A. & Bro., 50 Beekman, New York
 Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.
MacKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)
 Robson, Chas. & Co. (For Bakers' Oven), 8th & Washington av, Phila., Pa.
 Stowell Mfg. & Foundry Co., S Milwaukee, Wis.
 Swett, A. L. Iron Works, Medina, N. Y.
 United States Column Co. ("Lally"), Cambridge, Mass.

Doors (Bakers' Oven)

Comstock, Geo. S., Mechanicsburg, Pa.
 Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
 Dutchess Tool Co., Fishkill on the Hudson, N. Y.
 Mills, Thos. & Bros. Phila., Pa.
 Robson, Chas. & Co. ("Vienna"), 8th & Washington av, Phila., Pa.

Doors (Balance)

Pitt Balance Door Co. ("Pitt" Balance), 136 W 24th, New York

Doors (Bronze)

(See Bronze Doors)

Doors (Car)

(See Car Doors & Fittings)

Doors (Cedar & Fir)

(See Doors, Red Cedar)

Doors (Cellar)

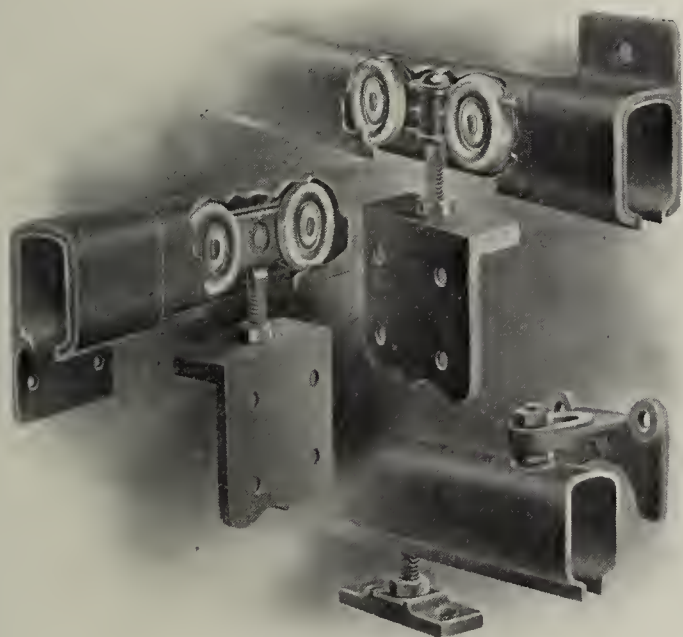
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
 Lanz, M. & Sons (Steel), Carson & 29th, Pittsburg, Pa.
MERRITT & CO., Front & Arch, Camden, N. J. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO. (Steel Patented), Hamilton, O. (See adv. index, end of book)
RIESECK, P. (Steel), Allegheny av & Rebecca, Pittsburg, Pa. (See adv. index, end of book)
SCHREIBER, L. & SONS CO. (Steel Patented, 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
 Southern Foundry Co., Owensboro, Ky.



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Bolts, Expansion Bolts

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?

—Hendricks'—

Commercial Register

***Doors (Coal Hole)**

BOLLES, J. E. IRON & WIRE WORKS,
Detroit, Mich. (See adv. index, end of book)
CANTON MFG. CO., Canton, O. (See
adv. index, end of book)

Doors (Coiling, Vertical)

Flexifold Door & Shutter Co. ("Flexifold"),
10 E Worcester, Worcester, Mass.

Doors (Cold Storage)

AMERICAN METAL DOOR CO.
(Fireproof), Jamestown, N. Y. (See adv.
index, end of book)

DAHLSTROM METALLIC DOOR CO.
(Fireproof), Jamestown, N. Y., & 299 B'way
New York. (See adv. index & branch
offices, end of book)

Gloekler, Benrand Co., Pittsburg, Pa.
Jones Cold Store Door Co., Hagerstown, Md.

PRUDEN, C. D. CO. (Fireproof), Warner,
Bayard & Dock, Baltimore, Md. (See adv.
index, end of book)

STEARNS, A. T. LUMBER CO. (Air &
Fire-Proof), Neponset, Boston, Mass. (See
adv. index, end of book)

Stevens, Benj. A. Co., Toledo, O.
Stevenson Co. (Ltd.) (Air & Fireproof), Ches-
ter, Pa.

Doors (Copper Covered)

Blanchard, J. F. Co. ("Richardson's"), Fuller
bldg, New York

Flexifold Door & Shutter Co., 10 E Worcester,
Worcester, Mass.

KINNEAR & GAGER MFG. CO., Co-
lumbus, O. (See adv. index & branch
offices, end of book)

Pruden, C. D. Co., Warner, Bayard & Dock,
Baltimore, Md.

RAPP, JNO. W. (Metal Covered),
General Office & Works, College Point, New
York, Sales Office, Madison av., New York.

(See adv. index, end of book)
THORP FIRE PROOF DOOR CO.

("Thorp-Richardson"), 1000-1610 Central av.,
Minneapolis, Minn. (See adv. index &
branch offices, end of book)

Doors (Copper & Bronze Covered)

(See Doors, Copper Covered)

Doors (Core Oven)

Bethlehem Foundry & Machine Co., South Beth-
lehem, Pa.

Doors (Cypress, Wholesale)

Lutcher & Moore Cypress Lumber Co., Lutcher,
Riggs Cypress Co., Patterson, La. La.

Selden Cypress Door Co., Palatka, Fla.
STEARNS, A. T. LUMBER CO., Ne-

ponset, Boston, Mass. (See adv. index, end
of book)

Doors (Drop Fire)

Allith Mfg. Co. ("Reliable" Automatic Self-
Closing), W. Taylor & S 43d av. Chicago, Ill.

Richmond Safety Gate Co. (Kyrle S. Evans,
Agt.), 31 W 27th, New York. Works:
Richmond, Ind.

Doors (Dry Kiln)

Emerson Co. ("Emerson"), 111 N Charles,
Baltimore, Md.

Morton Dry Kiln Co. ("Emerson"), Chicago,
Ill.

Doors (Elevating)

AMERICAN METAL DOOR CO. (Fire-
proof), Jamestown, N. Y. (See adv. index
end of book)

DAHLSTROM METALLIC DOOR CO.
(Fireproof), Jamestown, N. Y., & 299 B'way,
New York. (See adv. index & branch
offices, end of book)

Richmond Safety Gate Co. (Kyrle S. Evans,
Agt.), 31 W. 27th, New York. Works:
Richmond, Ind.

Ritter Folding Door Co. (Horizontal Folding),
Covington, Ky.

Doors (Elevator)

(See Elevator Doors, Various Kinds)

Doors (Fire Proof, Metal)

AMERICAN METAL DOOR CO.,
Jamestown, N. Y. (See adv. index, end of
book)

Automatic Door & Gate Co. (Underwriters), 123
Liberty, N. Y.

Blanchard, J. F. Co. ("Richardson's"), Fuller
bldg, New York

BOLLES, J. E. IRON & WIRE WORKS,
Detroit, Mich. (See adv. index, end of book)

CINCINNATI WALL TIE CO., 206 E
5th, Cincinnati, O. (See adv. index, end
of book)

DAHLSTROM METALLIC DOOR CO.,
Jamestown, N. Y., & 299 B'way, New York
(See adv. index & branch offices, end of book)

Dowman-Dozler Mfg. Co. (Hollow Sheet Metal
Panel), Atlanta, Ga.

Herrman & Grace, 671 Bergen, B'klyn, N. Y.

Howell & Lawrence (Metal Covered), 402 E
93d, New York

KINNEAR MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

KINNEAR & GAGER MFG. CO., Co-
lumbus, O. (See adv. index & branch
offices, end of book)

Knoburn Co. (Steel Filled with Asbestos), 27
E. 22d, New York

Lupton's, David Sons Co., Allegheny av &
Tulip, Philadelphia, Pa.

Pruden, C. D. Co. (Also Hollow Sheet Metal),
Warner, Bayard & Dock, Baltimore, Md.

(See adv. index, end of book)
RAPP, JOHN W. CO. (Metal Covered,

All kinds), General Office & Works, College
Point, New York; Sales Office, 4 Madison
av. New York. (See adv. index, end of book)

Ross, R. J. Mfg. Co. ("Meeker"), 692 W Lake,
Chicago, Ill.

THORP FIRE PROOF DOOR CO.
("Thorp-Richardson"), 1600-1610 Central
av, Minneapolis, Minn. (See adv. index &
branch offices, end of book)

Doors (Fire, Tin Clad)

BURTON, W. J. & CO., 161 W. Congress,
Detroit, Mich. (See adv. index, end of
book)

Keystone Fire Door Co. (Inc.), Pittsburg, Pa.
Machwirth Bros. Co., 201 Oak, Buffalo, N. Y.

PRUDEN, C. D. CO., Warner, Bayard
& Dock, Baltimore, Md. (See adv. index,
end of book)

RAPP, JOHN W. CO. (Underwriters'
Standard Tin Covered), Gen'l Office & W'ks,
College Point, N. Y. City, Sales Offices, 4
Madison av. New York. (See adv. index,
end of book)

Richmond Safety Gate Co. (Kyrle S. Evans,
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Chicago, Ill.

Underwriters Hatch Door Co., Chicago, Ill.

VALLEY CORNICE & SLATE CO., Ltd.,
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(See adv. index, end of book)

Doors (Folding)

KINNEAR MFG. CO., Columbus, O.
(See adv. index, end of book)

Ritter Folding Door Co. ("Ritter," Horizontal,
Steel or Wooden, for Railroads, Ware-
houses, etc.), Covington, Ky.

Variety Mfg. Co. ("Cross," Horizontal for
Freighthouses, etc.), Sacramento & Carroll
av., Chicago, Ill.

Doors (Hard Wood & Veneered)

Alcott-Ross Co., 2917 N Broad, Phila., Pa.

American Compound Door Co., 21st & Morgan,
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Anson-Hixson Sash & Door Co. (For the Trade
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tavia, N. Y., & Fuller bldg, New York

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Creek, Brooklyn, N. Y.

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Lansing, Albany, N. Y.

Bush Bros., Royersford, Pa.

Caldwell & Iseninger, Middletown, O.

Carl, John H., 510 1st av, New York

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Commerce, Chicago, Ill.

Componnd Door Co., St. Joseph's, Mich.

Conway Veneered Door & Mantel Co., St. Paul
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Curtis & Bartlett Co. (For the Trade Only,
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Curtis & Yale Co. (Wholesale Mfrs.), Wausau,
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Davis, E. J. Mfg. Co., 9 Jackson boul. Chil-
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W 22d & Laflin, Chicago, Ill.

Gilmour, David, Door Co., 579 Tonawanda, Buf-
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Gray Bros. Mfg. Co., Muskegon, Mich.

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Huebner Mfg. Co., Mount, Elliott av & M. C.
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Huttig-Moss Mfg. Co., St. Joseph, Mo.

Hyde-Murphy Co., Ridgway, Pa.

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Mich.

Kertscher & Co., Elmira, N. Y., & 13 Law-
rence, New York

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City, Mich.

Lord, P. A. Lumber Co. (For Dealers & Con-
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Lortz & Frey Planing Mill Co., 420 E
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Lutcher & Moore Cypress Lumber Co.
(Wholesale Mfrs.), Lutcher, La.

McClelland, T. W. Co. (Wholesale Mfrs.), Da-
venport, Ia.

McConnell Mfg. Co., Hornellsville, N. Y., &
160 5th av, New York

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kosh, Wis.

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Mahogany Interior Trim Co., Indianapolis, Ind.

Mechanics Planing Mill Co., 3746 B'way, St.
Louis, Mo.

Miller, Wm. & Sons, 534 Federal, Pittsburg,
Pa. Mills, Rochester, Pa.

Montgomery Bros. & Co., Buffalo, N. Y.

Morgan Co. (For the Trade Only), Oshkosh,
Wis., & W 22d & S Union, Chicago, Ill.

Mulliner Box & Planing Co., Quincy, Ill.

Nesbit, D. M. Co. (Wholesale Mfrs.), Lewis-
burg, Pa.

Ocker & Ford Mfg. Co., Grand Rapids, Mich.

Paine Lumber Co. (For the Trade Only), Osh-
kosh, Wis., & 1 Madison av, New York

Pitt Balance Door Co. ("Pitt" Balance), 136
W 24th, New York

Radford Sash & Door Co. (For the Trade
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Rice & Giffin Mfg. Co., Sargent, c Gold,
Worcester, Mass.

Rikerd Lumber Co. (Wholesale Mfrs.), Lan-
sing, Mich.

Ripley Lumber Co., Poultney, Vt.

Roach & Musser Sash & Door Co. (Whole-
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Roberson, A. & Son, Binghamton, N. Y.

Rock Island Sash & Door Works (Whole-
sale Mfrs.), Rock Island, Ill.

Rockwell Mfg. Co. (for the trade only), Mil-
waukee, Wis.

Rogers, D. M. & Co., New Britain, Conn.

Schaller-Hoehrr Co., 416 Blue Island av, Chi-
cago, Ill.

STEARNS, A. T. LUMBER CO., Ne-
ponset, Boston, Mass. (See adv. index, end
of book)

Struck, Alfred Co., Louisville, Ky.

Taylor, Henry Lumber Co., Lafayette, Ind.

Travis-Carter Co., Seymour, Ind.

Trebling Mfg. Co., 45 Centre, Cleveland, O.

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(See Doors, Bake Oven)

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(See Sashes, Doors & Blinds)

***Doors (Screen)**

(See also Screens, Window & Door)

BURROWES, E. T. CO., THE, Portland, Me. (See adv. index & branch offices, end of book)***Doors (Sidewalk, Flush Hinge & Handle)****COLUMBIA IRON & WIRE WORKS CO., Canton, O.** (See adv. index, end of book)**Doors (Steel Rolling)**

(See Shutters, Steel Rolling)

Doors (Trap)*CHICAGO SIDEWALK LIGHT CO., 105 Reaper blk., Chicago, Ill.** (See adv. index, end of book)***Doors (Winding & Sliding)****AMERICAN METAL DOOR CO. (Metal), Jamestown, N. Y.** (See adv. index, end of book)**DAHLSTROM METALLIC DOOR CO.****(Metal), Jamestown, N. Y., & 299 B'way, New York.** (See adv. index & branch offices, end of book)**THORP FIRE PROOF DOOR CO. ("Thorp-Richardson"), 1600-1610 Central av, Minneapolis, Minn.** (See adv. index and branch offices, end of book)**WILSON, JAS. G. MFG. CO. (Swing for Freight Sheds & Warehouses), Chief Office, 3 W 29th, New York. Mills & Factory: Norfolk, Va.** (See adv. index, end of book)**Doors (Wood Rolling)**

(See Shutters, Wood Rolling)

Doors & Shutters (Fireproof)

(See also Shutters, Steel, Etc.)

BERGER MFG. CO., THE, Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)**BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich.** (See adv. index, end of book)**BURTON, W. J. CO., 161 W. Congress, Detroit, Mich.** (See adv. index, end of book)**Canton Art Metal Co., Canton, O.****Champion Fire Proof Door Co. ("Champion F. P. Door"), 275 Rider av, New York****CHAMPION IRON CO. (Steel), Kenton, O.** (See adv. index, end of book)**DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y., & 299 B'way, New York.** (See adv. index & branch offices, end of book)**G. & W. MFG. CO., 26 Cortlandt, New York.** (See adv. index, end of book)**HANKE IRON & WIRE WORKS (Iron), 1234 Fillmore, Chicago, Ill.** (See adv. index, end of book)**Keystone Fire Door Co. (Inc.), Park bldg, Pittsburgh, Pa.****KINNEAR MFG. CO., Columbus, O.** (See adv. index & branch offices, end of book)**Knoburn Co., 27 E. 22d, New York****LANDON, E. R. IRON & WIRE WORKS (Iron), 18 N May, Chicago, Ill.** (See adv. index, end of book)**MERRITT & CO., Front & Arch, Camden, N. J.** (See adv. index, end of book)**Mesker & Bro., 423 S. 6th, St. Louis, Mo.****MEYERS, FRED. J. MFG. CO., Hamilton, O.** (See adv. index, end of book)**MILWAUKEE CORRUGATING CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)**National Fireproof Door & Shutter Co., 270 Moore, Brooklyn, N. Y.****PRUDEN, C. D. CO., Warner, Bayard & Dock, Baltimore, Md.** (See adv. index, end of book)

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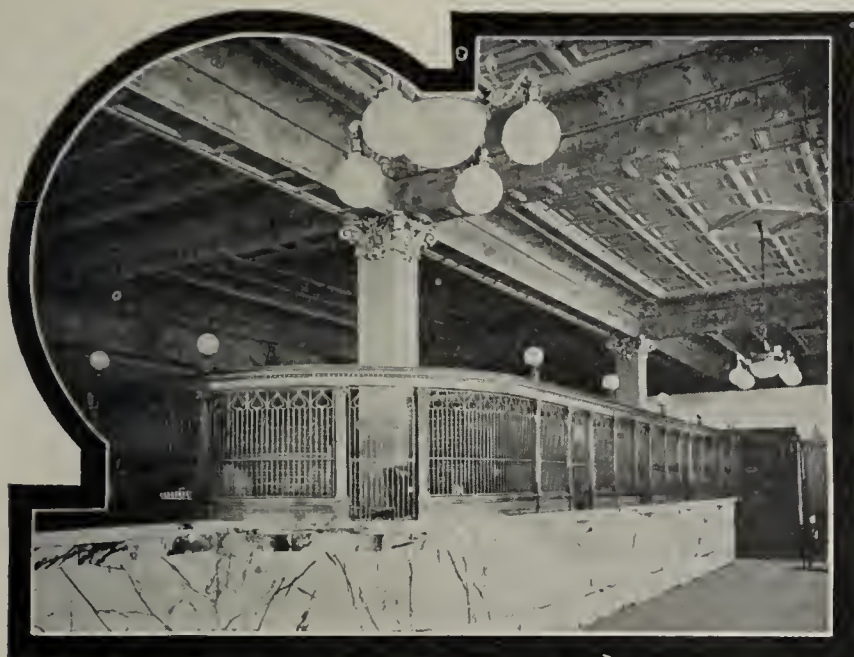
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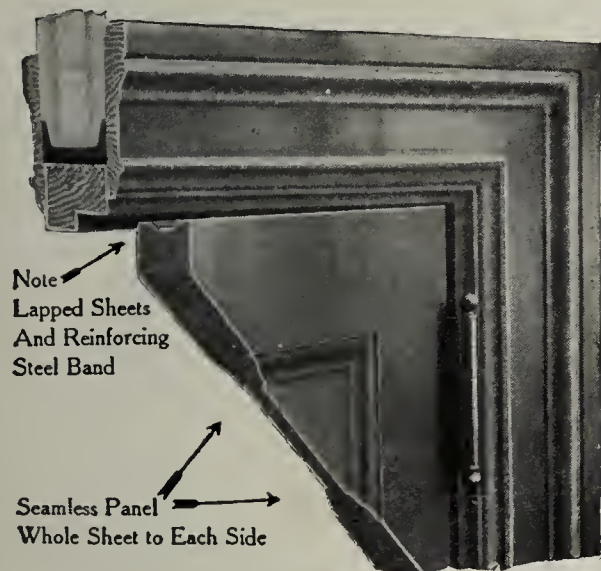
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Agt.), 31 W 27th, New York; Works,
Richmond, Ind.

RIESECK, P. (Steel). Allegheny av
& Rebecca, Allegheny, Pa. (See adv. index,
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Mass. (See adv. index, end of book)

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(See adv. index & branch offices, end of book)

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Mich. (See adv. index, end of book)

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Victor Mfg. Co., Newburyport, Mass.
WILSON, JAS. G. MFG. CO. (Steel
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Mills & Factory, Norfolk, Va. (See adv.
index, end of book)

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(See Shutters, Steel Rolling)

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Herrmann & Grace, 671 Bergen, Brooklyn, N. Y.
Howell & Lawrence, 1788 1st av, New York

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lumbus, O. (See adv. index & branch of-
fices, end of book)

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National Fire Proof Sash & Door Co., 270
Moore, Brooklyn, N. Y.

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& Dock, Baltimore, Md. (See adv. index,
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N. Y. Sales Office, 4 Madison av, New York
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Champion Machinery Co., Joliet, Ill.

Dutchess Tool Co. ("Van Houten"), Fishkill
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Hicks, Geo. J. (Inc), 103 Chambers, New York

Kratzinger, Edw. Co. (Ekco"), 11 S Peoria,
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Triumph Mfg. Co., Cincinnati, O.

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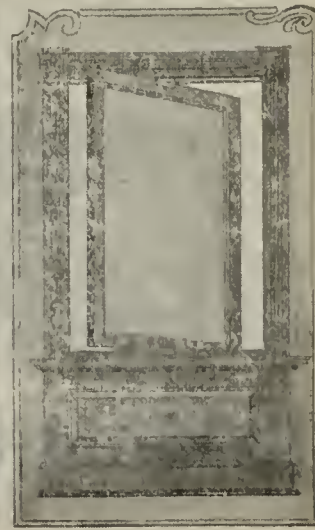
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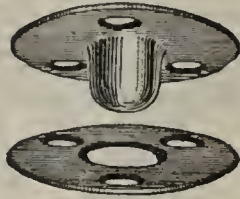
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Lobdell & Churchill Mfg. Co., Onaway, Mich.
MORSE, FRANK W., 516 Atlantic av., Boston, Mass. (See adv. index, end of book)
Nashua Spool & Bobbin Co. (All Sizes), Journal bldg, Boston, Mass.
Smith, H. B. & Co., Hanover, Me.

Dowels (Patternmakers')

Beskin Mfg. Co. (Brass), Canton, O.
Cleveland Fillet Co. (Wood & Metal), Cleveland, O.
Diamond Clamp & Flask Co., Richmond, Ind.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
MORSE, FRANK W., 516 Atlantic av., Boston, Mass. (See adv. index, end of book)
Shanafelt Mfg. Co. (Brass & Hardwood), Canton, O.
Timmis & Clissold (Brass), Boundbrook, N. J.

Dowels (Steel)

Badger Nail Co., Milwaukee, Wis.
Chicago Nut Co., 166 S Clinton, Chicago, Ill.
Lanz, M. & Sons, 101 S 29th, Pittsburgh, Pa.
Wire Goods Co. (Hand Rail Screw Thread), Worcester, Mass.

Draft Gear

Bradford Draft Gear Co., Monadnock blk, Chicago, Ill.
Commonwealth Steel Co., ("Transom," Cast Steel Draft Rigging), St. Louis, Mo. Works: Granite City, Ill.
Dayton Malleable Iron Co. (For Steel & Wooden Cars), Dayton, O.
Farlow Draft Gear Co. ("Farlow"), Baltimore, Md.
Gould Coupler Co. ("Gould" Friction), 347 5th av, New York
McCord & Co. ("McCord"), Old Colony bldg., Chicago, Ill.
Miner, W. H., Co. ("Miner" Draft Rigging), Rookery bldg, Chicago, Ill.
National Car Coupler Co. ("Hinson"), Monadnock blk, Chicago, Ill. Works, Attica, Ind.
Simplex Railway Appliance Co. ("Corning"), Commercial Nat'l B'k bldg, Chicago, Ill.; Works: Hammond, Ind.

Standard Coupler Co. ("Sessions-Standard" Friction), 2 Rector, New York; Works: Bridgeport, Conn.

Union Draft Gear Co. ("Cardwell" Friction), Chicago, Ill.

WESTINGHOUSE AIR BRAKE CO., The (Friction), Pittsburg, Pa.

Draft Inducer.

Brown Specialty Machinery Co. ("Gadey"), Jackson boul & Clinton, Chicago, Ill.

Draft (Mechanical)

(See Mechanical Draft)

Draftsmen (Mechanical)

Gaylord, Chas. E. (Patent Office Drawings a Specialty), Monadnock blk, Chicago, Ill.
NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)
White & White (Patent Office Drawings a Specialty), Monadnock blk, Chicago, Ill.

Drainage Excavators

(See Ditching Machines; also Sewer & Trench Excavating Machines)

Drainage Systems

Baggot, E. Co. ("Durham"), 45 E Lake, Chicago, Ill.
Waring, Chapman & Farquhar ("Waring"), 874 B'way, New York

Draughting Inks

Carter's Ink Co., 164 Columbus av, Boston, Mass.
Dietzgen Eugene Co., 181 Monroe, Chicago, Ill.
ELLIOTT, B. K. CO., 108 6th, Pittsburg, Pa. (See adv. index, end of book)
Favor, Ruhl & Co. (Gunther Wagner's ("Pelican"), New York
Higgins, Chas. M., 271 9th, Brooklyn, N. Y.
Keuffel & Esser Co., 127 Fulton, New York
KOLESCH & CO., 138 Fulton, New York. (See adv. index, end of book)
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)

SOLTMANN, E. G.

("Prin-To-Paque" Inks, Black, White & Colors' Specially Adapted for Tracings to Be Blue Printed Where All Colors Shall Print Equal to Black), 125 E 42d, New York. (See adv. index, end of book)
Taylor Bros. ("Opake" Quick Drying Water Proof, for Tracing Cloths), 82 Superior, Cleveland, O.

WEBER, F. & CO. (Black & Colored), 1125 Chestnut, Phila., Pa. (See adv. index & branch offices, end of book)
Williams, Brown & Earle, 918 Chestnut, Philadelphia, Pa.

Draw-Bar Attachment

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Butler Draw-Bar Attachment Co., Cleveland, O.
Dayton Malleable Iron Co., Dayton, O.
Miner, W. H., The Rookery, Chicago, Ill.
Van Dorn, W. T. Co. (Electric Railway), 1076 S Paulina, Chicago, Ill.
Wilmington Malleable Iron Co., Taylor & Locust, Wilmington, Del.

Draw Bridge Equipments (Electric)

Nichols, Geo. P. & Bro., Old Colony bldg, Chicago, Ill.

Draw Bridge Machinery

(See Machinery, Draw Bridge)

*Draw Hooks (Laundry)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Drawer Slides

Grant Pulley & Hardware Co. ("Turner"), 3 W 29th, New York
Reliance Ball Bearing Door Hanger Co. ("Reliance," Ball Bearing), 1 Madison av, New York

Drawing Materials

(See also Architects' & Engineers' Instruments & Supplies; also Blue Prints)
Beckman, L. Co., Toledo, O.
ELLIOTT, B. K. CO., 108 6th av, Pittsburg, Pa. (See adv. index, end of book)
HARDTMUTH, L. & C., 34 E 23d, New York. (See adv. index, end of book)
Indianapolis Blue Print & Supply Co., Indianapolis, Ind.
Keuffel & Esser Co., 127 Fulton, New York.
Keystone Blue Paper Co., 910 Filbert, Philadelphia, Pa.
KOLESCH & CO., 138 Fulton, New York. (See adv. index, end of book)
Kopp, Geo. L. & Co., 704 Smithfield, Pittsburg, Pa.
Lietz Co., San Francisco, Cal.
QUEEN & CO. (Inc.), n. w. c 8th & Arch, Philadelphia, Pa. (See adv. index, end of book)



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ington, Boston, Mass

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Phila., Pa. (See adv. index & branch
offices, end of book)

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Chicago, Ill.

Drawing Paper

(See Paper, Detail)

Drawing Tables

American Drafting Furniture Co., 9 Railroad,
Rochester, N. Y.

Century Mfg. Co. (Steel Adjustable), Colum-
bus, O.)

Dietzgen Eugene Co., 181 Monroe, Chicago, Ill.

Economy Drawing Table Co., Toledo, O.

Fritz & Goeldel Mfg. Co. ("Fry's Adjustable"),
95 Alabama, Grand Rapids, Mich.

Hemp, C. E., Hamilton, O.

Hetterschied Mfg. Co. ("20th Century" Ad-
justable), Grand Rapids, Mich.

Keuffel & Esser Co., 127 Fulton, New York

Kidder, R. E., 2 Hermon, Worcester, Mass.

KOLESCH & CO., 138 Fulton, New
York. (See adv. index, end of book)

Peterson, Leonard & Co., 51 Institute pl, Chi-
cago, Ill.

QUEEN & CO. (Inc.), n. w. c 8th &
Arch, Philadelphia, Pa. (See adv. index, end
of book)

Rich, J. & G. (Combination Drawing Outfit),
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Washburn Shops of the Polytechnic Institute,
Worcester, Mass.

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ALLIS-CHALMERS CO. ("Christian"),
Milwaukee, Wis. (See adv. index & branch
offices, end of book)

Bucyrus Co., South Milwaukee, Wis.

ELLICOTT MACHINE CO., Bush &
Severn, Baltimore, Md. (See adv. index,
end of book)

Hammond Mfg. Co., 100 1st, Portland, Oregon

Idanha Machine Co., 17 Battery pl, New York

Keogh Mfg. Co., San Francisco, Cal.

Link Belt Co., W 39th cor Stewart av, Chi-
cago, Ill., & 299 B'way, New York

Marion Steam Shovel Co., Marion, O.

New York Engineering Co., 2 Rector, New
York

Ohio Steam Shovel Co., Toledo, O.

Power & Mining Machinery Co., Cudahy, Wis.

Risdon Iron & Locomotive Works ("Postle-
thwaite"), San Francisco, Cal.

Thew Automatic Shovel Co., Lorain, O.

Union Iron Works Co., San Francisco, Cal.

United Iron Works (Beach Sand Dredges), Oak-
land, Cal.

Urie-Snyder Iron Works Co., Kansas City, Mo.

Western Engineering & Construction Co.
("Hull," Consulting Engineers & Construct-
ors), Monadnock bldg, San Francisco, Cal.

WETHERILL BROS. MACHINE CO.,
Chester, Pa. (See adv. index, end of book)

Willamette Iron & Steel Works, Portland, Ore.

Yeatman, Jno. A. & Co. (Beach Sand Dredges),
31 1st, San Francisco, Cal.

Dredges (Hydraulic)

(See Dredging Machinery, Hydraulic)

***Dredges (Second-Hand)**

SHAW, WILLIS CO., N. Y. Life bldg.,
Chicago, Ill. (See adv. index, end of book)

Dredging Engine Builders

(See Engines, Dredging)

Dredging Machinery

(See Machinery)

Dressers (Bibb Seat)

BERNZ, OTTO, S 13th c S Orange av,
Newark, N. J. (See adv. index, end of book)
Johnson Wm. (Hedenberg Works), Newark, N. J.
Wolverine Brass Works ("Universal"), Grand
Rapids, Mich.

Dressers (Emery Wheel)

(See Emery Wheel Dressers)

Dressing (Belt)

(See Belt Dressing)

Dressing (Carriage Top, Etc.)

East Mfg. Co. ("Peerless," also Easy Lining
Restorer), Buffalo, N. Y.

Dressing (Commutator)

(See Compounds, Commutator)

Dressing (Harness)

Hollingshead, R. M., Co. ("Hollingshead"
Liquid), Camden, N. J.

Dressing (Rope)

American Specialty Mfg. Co., Erie R. R.
& E 37th, S. E., Cleveland, O.

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end
of book)

Dodge Mfg. Co., Mishawaka, Ind. (See adv. index,
end of book)

Nason, R. N. & Co. (Wire Rope), 117 Market,
San Francisco, Cal.

Wolf, Norbert & Son ("Wolff"), 470 Greenwich,
New York

Zurn, O. F. Co. ("Ropoleum"), Broad &
Lehigh, Phila., Pa.

Drill Presses

(See also Drills, Various Kinds)

Allen, Chas. G., Co. ("Allen" Plain Bearing),
Barre, Mass.

Aurora Tool Works, Aurora, Ind.

Barnes, B. F. Co., Rockford, Ill.

Barnes Drill Co., Rockford, Ill.

Carroll-Jamieson Machine Tool Co., Batavia, O.

CHICAGO FLEXIBLE SHAFT CO.
(Flexible Shaft), La Salle av & Ontario,
Chicago, Ill. (See adv. index & branch
offices, end of book)

Clough, R. M., Tolland, Conn.

COATES CLIPPER MFG. CO.
("Coates" Flexible Shaft), Worcester,
Mass. (See adv. index, end of book)

Fleming, G. W., Co. (Light), Bradford, Pa.

Foot-Burt Co. (High Duty), Cleveland, O.

Gem Mfg. Co. ("Gem," Portable Screw Feed),
Pittsburg, Pa.

Gould & Eberhardt, 65 N. J. R. R. av, Newark,
N. J.

Henry & Wright Mfg. Co., 133 Sheldon, Hart-
ford, Conn.

Hoefler Mfg. Co., Freeport, Ill.

Knight, W. B. Machinery Co. ("Knight"), 2109
Lucas av, St. Louis, Mo.

Millers Falls Co., 28 Warren, New York;
Works: Millers Falls, Mass.

National Machine Co. ("W. & R." Sensitive,
etc., 1 to 10 Spindles), Hartford, Conn.

National Separator & Machine Co. (Cylinder
Turret), Concord, N. H.

Reed, Francis Co. (1 to 4 Spindles, Capacity
1/2 to 5-8 inch), Worcester, Mass.

Rich, Geo. R. Mfg. Co. ("Rich" Arch Bar),
Buchanan, Mich.

Rockford Machine & Shuttle Co., Rockford, Ill.

Sigourney Tool Co., Hartford, Conn.

Sloan & Cbace Mfg. Co. (Ltd.) (Bench), New-
ark, N. J.

Stow Mfg. Co., Binghamton, N. Y.

Taylor & Fenn Co. (Four Spindle Simultaneous
Feed), Hartford, Conn.

Wiley & Russell Mfg. Co. ("Green River"),
Greenfield, Mass.

Drill Speeders

Graham Mfg. Co. ("Graham"), Providence, R. I.

Drill & Vise Combined

Adams, A. L., Cedar Rapids, Iowa

Millers Falls Co., 28 Warren, New York;
Works: Millers Falls, Mass.

Strange, E. W. & Co., Taunton, Mass.

Drilling Attachments (Auto- matic)

Fifield Bros. (For Use on Bit Brace), Augusta,
Me.

Millers Falls Co. ("Graves," Automatic), 28
Warren, New York; Works: Millers Falls,
Mass.

Drills (Artesian Well)

(See Well Drilling Machinery in Letter M)

Drills (Automatic)

Baush Machine Tool Co., Springfield, Mass.

Garvin Machine Co., 143 Varick, New York

Goodell-Pratt Co., Greenfield, Mass.

Hoefler Mfg. Co., Freeport, Ill.

Niles-Bement-Pond Co., 111 B'way, New York

Pratt & Whitney Co., Hartford, Conn.

Prentice Bros. Co., Worcester, Mass.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)

San Francisco Iron Works, 223 Folsom, San
Francisco, Cal.

Wiley & Russell Mfg. Co., Greenfield, Mass.

Drills (Beet Planting)

Allen, S. L. & Co., Phila., Pa.

American Seeding Machine Co., Main Office,
Springfield, O.

Bacon Mfg. Co., Pontine, Mich.

Bateman Mfg. Co., Greenloch, N. J.

Fetzer & Co., Springfield, Ill.

Gale Mfg. Co., Albion, Mich.

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Wayne Works, Richmond, Ind.

Drills (Bench)

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Barnes, B. F. Co., Rockford, Ill.

Barnes Drill Co., Rockford, Ill.

Barnes, W. F. & Jno. Co., Rockford, Ill.

Blissfield Motor Works ("Davenport"), Bliss-
field, Mich.

Boynton & Plummer (Upright), Worcester,
Mass.

Clark, Jas. Jr., Electric Co. (Sensitive "Wil-
ley," Electrically Driven), 313 W Main,
Louisville, Ky.

Gardam, Wm. & Son (Inc.) (Sensitive Type),
221 Fulton, New York

Garvin Machine Co., 143 Varick, New York

Goodell-Pratt Co. (Hand & Power), Green-
field, Mass.

Gowanda Agricultural Works (For Cutlery Fac-
tories), Gowanda, N. Y.

Hoefler Mfg. Co., Freeport, Ill.

Miami Valley Machine Tool Co. ("Patterson"
Friction Disc Driven, 10-inch Sensitive),
Dayton, O.

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Works: Millers Falls, Mass.

Oliver, W. W. Mfg. Co., 1483 Niagara, Buf-
falo, N. Y.

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Sigourney Tool Co., Hartford, Conn.

Silver Mfg. Co., Salem, O.

Smurr & Kamen Machine Co. ("Champion"),
97 S Clinton, Chicago, Ill.

Stearns, E. C. & Co., Syracuse, N. Y.

STRONG, CARLISLE & HAMMOND
Co. (The Ideal), Cleveland, Ohio. (See adv.
index, end of book)

Tschudi-McBarron Machine Co. ("Excelsior,"
Sensitive), Dayton, O.

Drills (Bit Stock)

Cincinnati Tool Co., Norwood, Cincinnati, O.

CLEVELAND TWIST DRILL CO., Lake-
side av & 49th, Cleveland, O. (See adv.
index, end of book)

Detroit Twist Drill Co., Detroit, Mich.
 Lincoln-Williams Twist Drill Co. (For Metal or Wood), Taunton, Mass.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
MORSE TWIST DRILL & MACHINE
 Co. (For Metal or Wood), New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co., Detroit, Mich.
 New Process Twist Drill Co. (Twist), Taunton, Mass.
 Standard Tool Co., Central av & P. R'y, Cleveland, Ohio
 Syracuse Twist Drill Co., Syracuse, N. Y.
WHITMAN & BARNES MFG. CO.,
 West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Blacksmiths')

American Foundry & Mfg. Co., 11th & Herbert, St. Louis, Mo.
 Boynton & Plummer, Worcester, Mass.
 Buffalo Forge Co., Buffalo, N. Y.
 Canedy-Otto Mfg. Co. ("Western Chief," Automatic Self-Feed), Chicago Heights, Ill.
 Champion Blower & Forge Co., Lancaster, Pa.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)
 Foos Mfg. Co., Springfield, O.
 High Speed Drill Co. ("Collis"), Dubuque, Ia.
 Illinois Iron & Bolt Co. (Horizontal & Upright), Carpentersville, Ill.
 Lincoln-Williams Twist Drill Co., Taunton, Mass.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
 New Process Twist Drill Co. (Twist), Taunton, Mass.
 Niles-Bement-Pond Co., 111 B'way, New York
 Noyes, B. B. & Co. ("Little Giant"), Greenfield, Mass.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pratt & Whitney Co., Hartford, Conn.
 Reed, Francis Co. (Upright & Post), Worcester, Mass.
 Russ, A. E. Mfg. Co., 6813 Wade Park av, Silver Mfg. Co., Salem, O. N E, Cleveland, O.
 Southern Skein & Foundry Co. (Horizontal), Chattanooga, Tenn.
 Standard Tool Co., Cleveland, O.
 Star Forge Co. ("Star" Ball Bearing Post), Buffalo, N. Y.
 Swett, A. L. Iron Works (Steel Spindle, etc.), Medina, N. Y.
WHITMAN & BARNES MFG. CO.,
 West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)
 Willey & Russell Mfg. Co. ("Green River" Ball Bearing Swing Table Automatic Feed), Greenfield, Mass.

Drills (Boilermakers')

Aurora Tool Works, Aurora, Ind.
 Cincinnati-Bickford Tool Co., Cincinnati, O.
 Ingersoll-Rand Co., 11 B'way, New York
 Niles-Bement-Pond Co., 111 B'way, New York
 Prentice Bros. Co., Worcester, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Silver Mfg. Co., Salem, O. Phila., Pa.

Drills (Boiler Shell)

American Tool Works Co., Cincinnati, O.
DALLETT, THOS. H. CO. (Electric Duplex), 2300 York, Phila., Pa. (See adv. index, end of book)
 Detrick & Harvey Machine Co., Baltimore, Md.
 Niles-Bement-Pond Co., 111 B'way, New York
 Prentice Bros. Co., Worcester, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Drills (Brace & Chain Combined)

Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.

*Drills (Bracket)

STRONG, CARLISLE & HAMMOND
 Co. ("The Berlin"), Cleveland, O. (See adv. index, end of book)

Drills (Breast)

Boynton & Plummer (Combined Breast & Upright), Worcester, Mass.
CHICAGO FLEXIBLE SHAFT CO.
 (Flexible Shaft), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

Clark, Jas., Jr., Electric Co. (Electrically Driven), 313 W Main, Louisville, Ky.
COATES CLIPPER MFG. CO.
 ("Coates" Housed Geared Flexible Shaft), Worcester, Mass. (See adv. index, end of book)

Fray, Jno. S. & Co., Bridgeport, Conn.
 Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
 Goodell-Pratt Co., Greensfield, Mass.
 Millers Falls Co. (Ball Bearing), 28 Warren, New York; Works: Millers Falls, Mass.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Stanley Rule & Level Co., New Britain, Conn.
 Stow Flexible Shaft Co., N 26th & Callowhill, Philadelphia, Pa.
 Stow Mfg. Co., Binghamton, N. Y.
 Turner & Deegan, Bristol, Conn.
 Willey Machine Co. ("Willey" Portable Electric), Jeffersonville, Ind.

Drills (Brick & Stone)

(See Drills, Hammer, Brick & Stone)

Drills (Center)

Lincoln-Williams Twist Drill Co., Taunton, Mass.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)
 New Process Twist Drill Co. (Twist), Taunton, Mass.
WHITMAN & BARNES MFG. CO.,
 Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Chain)

Goodell-Pratt Co. ("Giant" Automatic and Ratchet), Greenfield, Mass.
 Grabler Mfg. Co. ("Wonder" & "Grabler" Self-Feeding), Cleveland, O.
 Millers Falls Co. ("Millers Falls"), 28 Warren, New York; Works: Millers Falls, Mass.

Drills (Clamp)

Boynton & Plummer (New Swivel Self-Feeding), Worcester, Mass.
 Jackson Patent Shell Roll Co. (Universal), Pawtucket, R. I.
 Reed, Francis Co. (4 Sizes), Worcester, Mass.
 Stow Flexible Shaft Co., N 26th & Callowhill, Philadelphia, Pa.
 Tecktonius, E. C. Mfg. Co., Racine, Wis.

Drills (Coal Prospecting)

(See Drills, Prospecting)

Drills (Coal & Rock)

(See also Machines, Coal Cutting)

American Diamond Rock Drill Co., 90 West, New York
 Beall Bros. (Inc.) (Coal Drills), Alton, Ill.
 Beaver Falls Mfg. Co. (Hand, Auger Type), Beaver Falls, Pa.
 Blittenbender, Geo. H., Plymouth, Pa.
 Buckeye Tool Co. (Coal Only), Leontonia, O.
 Cyclone Machine Co. (Hand Only), Pittston, Pa.
 Eagan, Jas. (Hand & Power), Wyoming, Pa.
 Fulton Tool Works (Coal), Canal, Fulton, O.
 Goodman Mfg. Co. (Auger Type), Haisted, 48th pl, Chicago, Ill.
 Hardsocg, Martin Co. (Auger, etc., Coal), 922 South av, Allegheny, Pa.
 Hardsocg Wonder Drill Co. (Hand), Ottumwa, Pa.
 Herzler-Henninger Machine Works, Belleville, Ill.
 Howell's Mining Drill Co. (Hand & Power), Plymouth, Pa.
 Hubbard & Co., Pittsburg, Pa.
 Ingersoll-Rand Co., 11 B'way, New York.
 Iwan Bros. (Hand & Power), South Bend, Ind.
JEFFREY MFG. CO. (Hand & Power), Columbus, O. (See adv. index & branch offices, end of book)
 Klein-Logan Co. (Hand), Pittsburg, Pa.
 Leontonia Tool Co., Leontonia, O.
 Le Grand Mine Drill Works, Wilkes-Barre, Pa.
 Marvin Electric Drill Co., Binghamton, N. Y.
 Massillon Foundry & Machine Co. ("Heimann" Coal Mining), Massillon, O.
 Morgan-Gardner Electric Co. (Power), 2642 Shields av, Chicago, Ill.
 Motley, Green & Co. (Inc.), 68 Broad, New Peoria Coal Drill Works, Peoria, Ill.
 Pittsburg Steel Mfg. Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick" Auger, Grip, Wood & Steel Post), Cheswick, Pa.
 Salem Tool Co. (Coal Only), Salem, O.
 Warwood Tool Co. (Coal Miners'), Wheeling, W. Va.

Drills (Combination Center)

CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)
 Lord, L. L. Co. ("Lord"), Meadville, Pa.
 Slocumb, J. T. Co., Providence, R. I.

Drills (Compressed Air)

Clayton Air Compressor Works, 114 Liberty, New York
 Compressed Air Machinery Co. ("Giant"), San Francisco, Cal.
 Economic Machinery Co. ("Dietz" Air-electric Rock), Denver, Colo.
 Howell's Mining Drill Co., Plymouth, Pa.
 Ingersoll-Rand Co., 11 B'way, New York.
JEFFREY MFG. CO. ("Phillips"),
 Columbus, O., & 41 Dey, New York. (See adv. index & branch offices, end of book)
 McKlennan Drill Co., 115 B'way, New York
 Rix Compressed Air & Drill Co. (Also North Steel, Baby Drill), 371 Market, San Francisco, Cal.
 Rogers, Jno. M. Works, Gloucester City, N. J.

Drills (Core)

American Diamond Rock Drill Co. (Diamond Prospecting), 90 West, New York
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
 Cyclone Drill Co. ("Diamondite," "Preslar" Prospecting), Orrville, O.
 Ellison, Wm. & Sons Mfg. Co., 1018 N 6th, St. Louis, Mo.
 Ingersoll-Rand Co. ("Davis Calyx," "Diamondless"), 11 B'way, New York
 Standard Diamond Drill Co. ("Diamond," Capacity 350 to 6,000 ft), Chamber of Commerce bldg, Chicago, Ill.
 Sullivan Machinery Co. (Diamond), Railway Exch bldg, Chicago, Ill.

Drills (Corn Planting)

American Drill Co., The, Springfield, O.
 American Seeding Machine Co. (With Fertilizer Attachment), Main Office: Springfield, Avery, B. F. & Sons, Louisville, Ky. Ohio
 Bement's, E. Sons, Lansing, Mich.
 Bradley, David Mfg. Co., Bradley, Ill.
 Campbell Corn Drill Co. (Corn Drills, etc.), Harrison, O.
 Case, J. I. Plow Works, Racine, Wis.
 Chambers, Bering, Quinlan Co., Decatur, Ill.
 Deere & Mansur Co., Moline, Ill.
 Deuser, H. P. Co., Hamilton, O.
 Emerson Mfg. Co., Rockford, Ill.
 Fetzer & Co., Springfield, Ill.
 Gale Mfg. Co., Albion, Mich.
 Hapgood Plow Co., Alton, Ill.
 Hayes Pump & Planter Co., Galva, Ill.
 King Drill Co., Logansport, Ind.
 McSherry Mfg. Co., Middletown, O.
 Moline Plow Co., Moline, Ill.
 Morrison Mfg. Co., Fort Madison, Iowa
 Ohio Rake Co., Dayton, O.
 Parlin & Orendorff Co., Canton, Ill.
 Pekin Plow Co., Pekin, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Quincy Corn Planter Co. ("Barlow"), Quincy, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Rude Bros. Mfg. Co. (With Fertilizer Attachment), Liberty, Ind.
 St. Joseph Plow Co., St. Joseph, Mo.
 Sechler, D. M. Carriage Co. ("Black Hawk"), Moline, Ill.
 Shortsville Wheel Co., Shortsville, N. Y.
 Thomas Mfg. Co., Springfield, O.
 Wayne Works, Richmond, Ind.

Drills (Cotter)

Niles-Bement-Pond Co., 111 B'way, New York
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Drills (Cotton Planting)

American Seeding Machine Co., Springfield, O.
 Avery, B. F. & Sons, Louisville, Ky.
 Deere & Mansur Co. ("Zigzag Deer Lever," "Ajax Scotch"), Moline, Ill.
 Moline Plow Co., Moline, Ill.

Drills (Diamond)

Grant-Lees Machine Co. (For Optical & Mechanical Use), Cleveland, O.

Drills (Diamond Core)

(See Drills, Core)

Drills (Electric)

(See also Drills, Electric Portable)

Clark, Jas., Jr., & Co. Louisville, Ky.
Emerson Electric Mfg. Co. (Motor Driven), 2030 Washington av., St. Louis, Mo.
Holtzer-Cabot Electric Co. ("H.-C." Vertical for Jewelry Works, Drilling Lenses, etc.), Brookline, Mass.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Scranton Electric Construction Co. (For Mining Gypsum, Fire Clay, etc.), Scranton, Pa.
Stow Mfg. Co., Binghamton, N. Y.
VAN DORN ELECTRIC & MFG. CO. (Portable), 2694 E 79th, Cleveland, O. (See adv. index, end of book)

Drills (Electric Portable)

Anderson Electric Machine Tool Co., St. Louis, Mo.
Bartz, Wygant & Brown ("Royal"), Hornell, N. Y.
Cary, Jas. E., Portland, Me.
Chicago Pneumatic Tool Co. ("Duntley," "Little," Air Cooled), Fisher bldg., Chicago, Ill.
Cincinnati Electrical Tool Co. (Direct Current, Breast or Hand), Cincinnati, O.
COATES CLIPPER MFG. CO., Worcester, Mass. (See adv. index end of book)
Fortuna Machine Co. (Importers), 127 Duane, New York
Hisey-Wolf Machine Co., Cincinnati, O.
United States Electric Tool Co. (Hand), 1938 W 8th, Cincinnati, O.
Stow Mfg. Co., Binghamton, N. Y.
Van Dorn Elec. & Mfg. Co., Cleveland, O.
Victor Electric Co., 55 Market, Chicago, Ill.

Drills (Electric Rock)

Box Electric Drill Co. ("Box"), 115 B'way, New York
Crippen, H. D. Mfg. Co. ("Box-Electric"), 25 Broad, New York
Economic Machinery Co. ("Dietz" Alroelectric, Denver, Colo.
Gardner Elec. Drill & Machinery Co. ("Adams"), Cleveland, O.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Goodman Mfg. Co., Halsted & 48th pl., Chicago, Ill.
Howell's Mining Drill Co., Plymouth, Pa.
JEFFREY MFG. CO. (Rotary for Coal, Clay, Shale, etc.), Columbus, O. (See adv. index & branch offices, end of book)
Marvin Electric Drill Co., Binghamton, N. Y.
Mine & Smelter Supply Co. ("Durkee"), Denver, Colo.
Montana Electric Co., Butte, Mont.
Morgan-Gardner Electric Co., 2642 Shields av., Chicago, Ill.
Northern Electrical Mfg. Co., Madison, Wis.
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Drills (Electricians')

(See Drills & Bits, Electricians')

Drills (Extension)

Grabler Mfg. Co. (For Drilling Into I Beams or Concrete), Cleveland, O.

Drills (Fertilizer)

Allen, S. L. & Co., Philadelphia, Pa.
American Seeding Machine Co. (Grain). Main Office, Springfield, O.
Bateman Mfg. Co., Grenloch, N. J.
Genung, O. W. ("Iron King" Hand), Madison, Ohio
Hench, Dromgold & Co., York, Pa.
Rude Bros. Mfg. Co., Liberty, Ind.
Spangler Mfg. Co., York, Pa.
Wayne Works, Richmond, Ind.

Drills (Flexible Shaft)

(See Shafts, Flexible)

***Drills (Fluted)**

CLEVELAND TWIST DRILL CO., Lake-side av & 49th, Cleveland, O. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Gang)

Barnes, B. F. Co., Rockford, Ill.
Barnes Drill Co., Rockford, Ill.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Cincinnati-Blickford Tool Co., Cincinnati, O.
Foote-Burt Co., 4101 St. Clair, N E, Cleveland, O.
Gardam, Wm. & Son (Inc.), 221 Fulton, New York
Hofer Mfg. Co., Freeport, Ill.
Moline Tool Co., Moline, Ill.
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.
Rockford Drilling Machine Co., Rockford, Ill.
Snyder, J. E. & Son, Worcester, Mass.

Drills (Garden Seed)

Genung, C. W., Madison, O.

Drills (Grain)

American Drill Co., Marion, Ind.
American Seeding Machine Co. (Hoe, Shoe, Disc, also Low Down Press), Springfield, O.
Beaver Dam Mfg. Co., Beaver Dam, Wis.
Cassopolis Mfg. Co., Cassopolis, Mich.
Chambers, Bering, Quinlan Co., Decatur, Ill.
Champion Drill Co., Avon, N. Y.
Champion Wagon Co., Owego, N. Y.
Crown Mfg. Co., Phelps, N. Y.
Dempster Mill Mfg. Co., Beatrice, Neb.
Dowagiac Mfg. Co., Dowagiac, Mich.
Emerson Mfg. Co., Rockford, Ill.
Farquhar, A. B. Co. (Force, Feed, Grain, Grass & Phosphate), York, Pa.
Fetzer & Co., Springfield, Ill.
Fuller Mfg. Co., East Moline, Ill.
Geiser Mfg. Co., Waynesboro, Pa.
Genesee Valley Mfg. Co., Mount Morris, N. Y.
Gundlach, Philip M., Belleville, Ill.
Hapgood Plow Co., Alton, Ill.
Hayes Pump & Planter Co., Galva, Ill.
Hench & Dromgold Co., Inc., York, Pa.
Hocking Valley Mfg. Co., Lancaster, O.
Hoosier Drill Co., Richmond, Ind.
Houser & Haines Mfg. Co., Stockton, Cal.
King Drill Co., Logansport, Ind.
King Drill Mfg. Co., Nebraska City, Neb.
La Crosse Plow Co., La Crosse, Wis.
Lean, Roderick Mfg. Co., Mansfield, O.
Messinger Mfg. Co. (With Grass Seeder), Tattamy, Pa.
Miller Grain Drill Mfg. Co., Newton, Kan.
National Drill Co., Cambridge City, Ind.
Ontario Drill Co., Despatch, N. Y.
Owatonna Mfg. Co., Owatonna, Minn.
Peoria Drill & Seeder Co., Peoria, Ill.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Rude Bros. Mfg. Co. (Hoe, Shoe & Disc) Liberty, Ind.
Spangler Mfg. Co. ("Spangler" Low-down), York, Pa.
Spring Grain Drill Mfg. Co., Peru, Ind.
Stoddard Mfg. Co., Dayton, O.
Thomas Mfg. Co., Springfield, O.
Van Brunt Mfg. Co. (Shoe & Hoe & Low Down Press), Horicon, Wis.
Wayne Works, Richmond, Ind.
Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.
Withington & Cooley Mfg. Co., Jackson, Mich.

Drills (Grain Disc)

(See also Drills, Grain)

American Drill Co., Marion, Ind.
American Seeding Machine Co., Main Office, Springfield, O.
Beaver Dam Mfg. Co., Beaver Dam, Wis.
Chambers, Bering, Quinlan Co., Decatur, Ill.
Champion Drill Co., Avon, N. Y.
Hoosier Drill Co., Richmond, Ind.
La Crosse Plow Co., La Crosse, Wis.
McSherry Mfg. Co., Middletown, O.
Rock Island Plow Co. (Comb Disc Drill & Harrow), Rock Island, Ill.
Spangler Mfg. Co., York, Pa.
Van Brunt Mfg. Co., Horicon, Wis.
Thomas Mfg. Co. (5 disc), Springfield, O.
Wayne Works, Richmond, Ind.

Drills (Hammer, Brick & Stone)

(For Drilling Holes for Expansion Bolts, etc.)

DIAMOND EXPANSION BOLT CO., 90 West, New York. (See adv. index, end of book)
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Props.), ("Osborn"), 169 Chambers, New York. (See adv. index, end of book)
Kraeuter & Co., Newark, N. J.
Peirce Specialty Co., Elkhart, Ind.
Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
STAR EXPANSION BOLT CO., 147 Cedar, New York. (See adv. index & branch offices, end of book)
STEWART & ROMAINE MFG. CO., 124 N 6th, Phila., Pa. (See adv. index, end of book)

Drills (Hand Power)

American Machine Construction & Repairing Co., 1039 Race, Philadelphia, Pa.
Buffalo Forge Co., Buffalo, N. Y.
Champion Blower & Forge Co., Lancaster, Pa.
CHICAGO FLEXIBLE SHAFT CO. (Flexible Shaft), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)
DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)
Duff Machine Co., 8 Western av, Lowell, Mass.
Foss Mfg. Co. (Blacksmiths), Springfield, O.
Fray, Jno. S. & Co. (Malleable Iron Frame), Bridgeport, Conn.
Goodell-Pratt Co. (Double Geared, etc.), Greenfield, Mass.
Hunter, Jas. Machine Co., North Adams, Mass.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Jones, E. D. & Sons Co. (For Metal), Pittsfield, Mass.
Millers Falls Co. (Ball Bearing), 28 Warren, New York; Works: Millers, Falls, Mass.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
North Bros. Mfg. Co. ("Yankee," Automatic & Reciprocating, for Carpenters, etc.), corner American & Lehigh av, Phila., Pa.
Prentice Bros. Co., Worcester, Mass.
Reed Francis Co., Worcester, Mass.
Rutschmann, Oscar F., 426 Berks, Phila., Pa.
Tower & Lyon Co., 95 Chambers, New York
Upton & Gillman (With Screw Feed & Chain Attachment), Lowell, Mass.

Drills (High Speed)

Celfor Tool Co. ("Celfor"), 9 Jackson boul., Chicago, Ill.
CLEVELAND TWIST DRILL CO., Lake-side av & 49th, Cleveland, O. (See adv. index, end of book)
High Speed Drill Co. ("Collis"), Dubuque, Iowa
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
WHITMAN & BARNES MANUFACTURING CO. ("W. & B."), West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Hollow)

CLEVELAND TWIST DRILL CO., Lake-side av & 49th, Cleveland, O. (See adv. index, end of book)
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
National Twist Drill & Tool Co. ("National," Hollow Mill), Detroit, Mich.

Drills (Letter)

Lincoln-Williams Twist Drill Co., Taunton, Mass.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Marble & Granite)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Lincoln Iron Works, Rutland Vt.

Drills (Mine Ratchet)

Bittenbender, Geo. H., Plymouth, Pa.
Jones, Geo. ("Jones" Reversible), Chattanooga, Tenn.
Nixon Mining Drill Co., Chattanooga, Tenn.
Peglar Mfg. Co., Chattanooga, Tenn.

Drills (Mine, Self-Feeding)

Ohio Brass Co., Mansfield, Ohio.

Drills (Multiple Spindle)

AJAX MFG. CO. (For Drilling Brake)
Plus, Bolts, etc., 6, 8, 10 & 12 Spindles,
3830 Lakeside, N. E., Cleveland, O. (See
adv. index, end of book)
Andrew, M. L. & Co., 2852 Spring Grove av,
Cincinnati, O.

Barnes, B. F. Co., Rockford, Ill.
Barnes Drill Co., Rockford, Ill.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Barr, Henry G. & Co., Worcester, Mass.
Baush Machine Tool Co. (Vertical & Horizontal),
Springfield, Mass.

Cincinnati-Bickford Tool Co., Cincinnati, O.
Clark, Jas., Jr., Electric Co. ("Willey," Three
Spindle Electrically Driven), 313 W Main,
Louisville, Ky.

Cleveland Machine & Mfg. Co., 1198 Hamilton,
Cleveland, O.

CLEVELAND PUNCH & SHEAR
Works Co., Cleveland, O. (See adv. index,
end of book)

Dwight Slate Machine Co., Hartford, Conn.
Foote-Burt Co., 4101 St. Clair av, N. E.,
Cleveland, O.

Fox Machine Co., Grand Rapids, Mich.
FREVERT MACHINERY CO. (Mrs')
Agents, 18 Dey, New York. (See adv. in-
dex, end of book)

Gardam, Wm. & Son (Inc.), 221 Fulton, New
York

Garvin Machine Co., 137 Varick, New York
Gowanda Agricultural Works (3 Spindle), Gow-
anda, N. Y.

Harrington, E. Son & Co., 17th & Callowhill,
Philadelphia, Pa.

Henry & Wright Mfg. Co., 133 Sheldon, Hart-
ford, Conn.

Langelier Mfg. Co., 67 Clifford, Providence,
Rhode Island

Moline Tool Co., Moline, Ill.
National Automatic Tool Co. (Full Automatic
Universal Drill Press), Dayton, O.

National Machine Co. (Spindle Drill Presses),
Hartford, Conn.

Newton Machine Tool Works, 2343 Vine, Phila-
delphia, Pa.

Niles-Bement-Pond Co., Main Office, 111 B'way,
New York

Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)

Reed, F. E. Co. (16 to 20 in. Swing), Worcester,
Mass.

Reed, Francis Co. (5 to 10 Spindles), Worcester,
Mass.

Rockford Drilling Machine Co., Rockford, Ill.
Sellers, Wm. & Co. (Inc.) (For Boiler & Plate
Work), 1600 Hamilton, Phila., Pa.

SHUSTER, F. B. CO., New Haven,
Conn. (See adv. index, end of book)

Sigourney Tool Co., Hartford, Conn.

Taylor & Fenn Co. (Two Spindle & Four Spin-
dle Adjustable), 54 Arch, Hartford, Conn.

Western Machine Tool Works ("Western"),
Holland, Mich.

WALTHAM MACHINE WORKS (Small)
Waltham, Mass. (See adv. index, end of
book)

Williams, White & Co., Moline, Ill.

Drills (Oil Tube)

Standard Tool Co., Cleveland, O.

Drills (Onion)

Allen S. L. & Co. ("Planet" Single Row),
Phila., Pa.

Bacon Mfg. Co. ("Bacon" Two Row), Pon-
tiac, Mich.

Genung, C. W. ("Iron King" Single Row),
Madison, O.

Jelliffe, C. O. Mfg. Corporation ("Universal"),
Southport, Conn.

Loudon Machinery Co. ("McIntosh" Two
Row), Fairfield, Iowa

Schroeder Bros. ("Schroeder" Two Row),
Minier, Ill.

Drills (Overhead or Hanging)

Boynton & Plummer, Worcester, Mass.

***Drills (Paper)**

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)

Drills (Piston Air)

(See Pneumatic Piston Drills)

Drills (Plug)

(See Pneumatic Plug Drills)

Drills (Pneumatic)

(See Pneumatic Drills)

Drills (Pneumatic Rock)

(See Pneumatic Rock Drills)

***Drills (Pod)**

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index,
end of book)

Drills (Portable)

(See also Drills, Hand; also Pneumatic Drills)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

CHICAGO FLEXIBLE SHAFT CO.,
La Salle av & Ontario, Chicago, Ill. (See
adv. index & branch offices, end of book)

Cincinnati-Bickford Tool Co., Cincinnati, O.
COATES CLIPPER MFG. CO.
("Coates" Flexible Shaft), Worcester, Mass.
(See adv. index, end of book)

DALLETT, THOS. H. CO. (Electric
Rope Driven), 2300 York, Phila., Pa. (See
adv. index, end of book)

Gem Mfg. Co. ("Gem" Flexible Shaft), Pitts-
burg, Pa.

Harrington, E. Son & Co., 17 & Callowhill,
Philadelphia, Pa.

Nazel Engineering & Machine Works, 4041 N
5th, Phila., Pa.

Newton Machine Tool Works (Electrically
Driven), 2343 Vine, Philadelphia, Pa.

Niles-Bement-Pond Co., 111 B'way, New York
Reed, F. E. Co., Worcester, Mass.

Snyder, J. E. & Son, Worcester, Mass.
Stow Mfg. Co. (Flexible Shaft, Belt Driven),
Binghamton, N. Y.

STRONG, CARLISLE & HAMMOND
Co. (The Berlin), Cleveland, O. (See adv.
index, end of book)

Drills (Post)

Box, Alfred & Co., 813 N Front, Phila., Pa.
Boynton & Plummer (Self-Feeding), Worcester,
Mass.

Buffalo Forge Co., Buffalo, N. Y.
Canedy-Otto Mfg. Co. ("Western Chief," Au-
tomatic Self-Feed), Chicago Heights, Ill.

Champion Blower & Forge Co., Lancaster, Pa.
Goodell-Pratt Co. (Or Wall), Greenfield, Mass.

Illinois Iron & Bolt Co. (Ball Bearing,
"Handy," "Bailey"), Carpentersville, Ill.

Harrington, E. Son & Co., 17 & Callowhill,
Philadelphia, Pa.

Howell Mining Drill Co. (Ball Bearing Heavy
Geared), Plymouth, Pa.

Noyes, B. B. & Co., Greenfield, Mass.
Pittsburg Tool & Drop Forge Co. ("Cheswick,"
for Steel or Wood), Cheswick, Pa.

Reed, Francis Co., Worcester, Mass.
Silver Mfg. Co. (Hand or Belt), Salem, O.

Snyder, J. E. & Son, Worcester, Mass.
Whitcomb, Geo. D., Co. ("Whitcomb"), Ro-
chelle, Ill.

Wiley & Russell Mfg. Co. ("Green River"
Ball Bearing, Swing Table, Automatic
Feed), Greenfield, Mass.

Drills (Prospecting, Hand or Power)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

Birdsboro Steel Foundry & Machine Co., Birds-
boro, Pa.

Crown Drilling Machine Co. (Gasoline or
Steam), Akron, O.

Cyclone Drill Co., Orrville, O.
Keystone Driller Co., Beaver Falls, Pa.
Muench, George, Stamford, Conn.

New York Engineering Co. ("Empire"), 2 Rec-
tor, New York
Sullivan Machinery Co. (Diamond Core), Rail-
way Exch bldg, Chicago, Ill.
Virginia Oregon Development Co., Portland,
Ore.

Drills (Radial)

American Tool Works Co., 6th & Eggleston av,
Cincinnati, O.

Aurora Tool Works, Aurora, Ind.
Baush Machine Tool Co. (Belt or Gear Driven),
Springfield, Mass.

Box, Alfred & Co. (Radial Gang, etc.), 813 N
Front, Phila., Pa.

Cincinnati-Bickford Tool Co., Cincinnati, O.
Clark, Jas., Jr., Electric Co. ("Willey," Semi-
Radial Electrically Driven), 313 W Main,
Louisville, Ky.

CLEVELAND PUNCH & SHEAR WORKS
Co., Cleveland, O. (See adv. index, end of
book)

Dreses Machine Tool Co., Cincinnati, O.
Fosdick Machine Tool Co., Cincinnati, O.

FREVERT MACHINERY CO. (Mrs')
Agents, 18 Dey, New York. (See adv. in-
dex, end of book)

Gang, William E. Co., 1543 Queen City av,
Cincinnati, O.

Hamilton Machine Tool Co. (60 to 120-inch),
Hamilton, O.

Harrington, E. Son & Co., 17th & Callowhill,
Philadelphia, Pa.

Henry & Wright Mfg. Co., Hartford, Conn.
Hilbert Machine Co. ("Hilbert"), Cincinnati,
Ohio

Holland Machine Tool Works ("Western"
Triple Geared), Holland, Mich.

Kane & Roach, Syracuse, N. Y.
Morris, John B., Foundry Co. ("Morris"),
Cincinnati, O.

Mueller Machine Tool Co. (Cone Driven, 2½
to 4 foot Arm, etc.), 2427 Colerain, Cin-
cinnati, O.

Newton Machine Tool Works, 2347 Vine, Phila-
delphia, Pa.

Niles-Bement-Pond Co., 111 B'way, New York
Optenberg Iron Works Co., Sheboygan, Wis.

Prentice Bros. Co. (Gear Speed Change), Wor-
cester, Mass.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)

Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Philadelphia, Pa.

STRONG, CARLISLE & HAMMOND
Co., 336 Frankfort av, N W, Cleveland,
O. (See adv. index, end of book)

Western Machine Tool Works ("Western"),
Holland, Mich.

***Drills (Rail Bonding)**

AMERICAN STEEL & WIRE CO., Com-
mercial Nat'l Bank bldg, Chicago, Ill. (See
adv. index & branch offices, end of book)

Drills (Railway Track)

Bissell, F. Co., Toledo, O.
Boynton & Plummer (Swivel Clamp), Worcester,
Mass.

Buda Foundry & Mfg. Co. ("Paulus" Auto-
matic Feed, "Buda" Heavy Base & "Wil-
son" for Light Work, "Rech," etc.), Rail-
way Exchange bldg, Chicago, Ill.

Cleveland Armature Works ("Ludelow"), Cleve-
land, O.

Cooks Standard Tool Co. ("Standard," "Cli-
max," Kalamazoo, Mich.

FAIRBANKS, MORSE & CO.
("Eclipse," Self-Feeding), Wabash av &
Eldredge pl, Chicago, Ill. (See adv. index
& branch offices, end of book)

Groff Drill & Machine Tool Co., Camden, N. J.
Handlan-Buck Mfg. Co. (Self-feeding, "Water-
man," "Paulus," "Beland," "Underwood,"
"Champion," "Noble," & "Union Pacific"),
212 N 3d, St. Louis, Mo.

High Speed Drill Co. ("Collis" High Speed),
Dubuque, Ia.

Ingersoll-Rand Co., 11 B'way, New York
Johnson, Isaac G. & Co. ("Victor"), Spuyten
Duyvil, New York

IRVING MFG. & TOOL CO. (J. F.
McCoy Co., Prop.) 169 Chambers, New
York. (See adv. index, end of book)

Lovejoy Tool Works ("Beland," "Lovejoy"), 86
E Ohio, Chicago, Ill.

Lowell Wrench Co. ("I. X. L."), Worcester,
Mass.

Michigan Mfg. Co., Ypsilanti, Mich.
Millers Falls Co., 28 Warren, New York, &
Millers Falls, Mass.

Pettibone, Mulliken & Co. ("Ball," "Union," "Perfection"), 204 Dearborn, Chicago, Ill.
Pratt & Whitney Co. ("Benshaw"), Hartford, Conn.

Quincy-Manchester-Sargent Co. ("Q. & C."), 84 Van Buren, Chicago, Ill.
Reed Francis Co., Worcester, Mass.

Schuttler Ratchet Drill Co., 242 W Lake, Chicago, Ill.
Stow Mfg. Co. (Flexible Shaft), Binghamton, N. Y.

VAN DORN ELECTRIC & MFG CO., 2694
E 79th, Cleveland, O. (See adv. index, end of book)

Walworth Mfg. Co. ("Smith"), 132 Federal, Boston, Mass.

ERNST WIENER COMPANY.

475 Fulton blug, New York. (See adv. index & branch offices, end of book)

Drills (Ratchet)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index, end of book)

Armstrong Bros. Tool Co. ("Armstrong" Universal), 104 N San Francisco av, Chicago, Ill.

Ashcroft Mfg. Co., 85 Liberty, New York. Works, Bridgeport, Conn.

Atha Tool Co., Newark, N. J.
Bignall & Keeler Mfg. Co., Edwardsville, Ill.
Billings & Spencer Co. (Double-Acting "Packer" for Flat & Square Shank Drills), Hartford, Conn.

Braunsdorf-Mueller Co., Elizabeth, N. J.
Brewer Bros., Phila., Pa.

CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)

Curtis & Curtis Co. (Flat & Pipe), Bridgeport, Conn.
Goodell-Pratt Co., Greenfield, Mass.

Groff Drill & Machine Tool Co. (Continuous Motion Automatic Feed), Camden, N. J.
High Speed Drill Co. ("Collis" High Speed), Dubuque, Ia.

Hunter, Jas. Machine Co., North Adams, Mass.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), ("Weston's" Packer), 169 Chambers, New York. (See adv. index, end of book)

Keystone Mfg. Co. ("Monarch" & "Keystone," "Weston"), 41 Chandler, Buffalo, N. Y.

Lovejoy Tool Works ("Packer"), 86 E Ohio, Chicago, Ill.

Lowell Wrench Co., Worcester, Mass.
Millers Falls Co. (Flat), 28 Warren, New York; Works: Millers Falls, Mass.

New Process Twist Drill Co. (Taper, Square Shank, etc.), Taunton, Mass.

Parker, Chas. Co., Meriden, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.

Pratt & Whitney Co. ("Renshaw"), Hartford, Conn.

Reed Francis, Co. (Plain & Geared), Worcester, Mass.

Schuttler Ratchet Drill Co., 242 W Lake, Chicago, Ill.

Stortz, John & Son (Flat & Pipe), 210 Vine, Phila., Pa.

WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Rice Planting)

American Seeding Machine Co., Main Office, Springfield, O.

Fetzer & Co., Middletown, O.
Hayes Pump & Planter Co., Galva, Ill.

McSherry Mfg. Co., Middletown, O.
Peoria Drill & Seeder Co., Peoria, Ill.

Wayne Works, Richmond, Ind.

Drills (Rock, Gasoline)

Scott, L. L., Joplin, Mo.

Drills (Rock, Hand)

Chicago Pneumatic Tool Co., Fisher bldg. Chicago, Ill.

Crippen, H. D. Mfg. Co. ("Jackson"), 25 Broad, New York

Cyclone Drill Co., Orrville, O.
Hassenzahl, Wm., 315 E 2d, Cincinnati, O.

Motley, Thornton N. Co. ("Jackson"), 68 Broad, New York

Rice, John V. Jr. & Co. (Gasoline), Borden-town, N. J.

Drills (Rock, Steam)

(See also Drills, Electric Rock; also Pneumatic Rock Drills)

Acme Road Machinery Co., Frankfort, N. Y.
Carnahan, C. T. Mfg. Co., Denver, Colo.

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

Cleveland Rock Drill Co. ("Cleveland"), Cleveland, O.

Denver Rock Drill & Machinery Co. ("Waugh," for Sloping, Sinking & Drifting, Denver, Colo.

FAIRBANKS, MORSE & CO. ("Sincclair" all Steel), Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Ingersoll-Rand Co., 11 B'way, New York

JEFFREY MFG. CO. ("Jeffrey," "Badger"), Columbus, O. (See adv. index & branch offices, end of book)

Le Grand Mine Drill Works (Coal & Rock Mine), Wilkes-Barre, Pa.

Leyner, J. Geo., Engineering Works Co., Littleton, Col.

McKernan Drill Co., 115 B'way, New York

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Rogers, John M. Works, Gloucester City, N. Y.

SHAW WILLIS CO. (New & Second Hand), 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Sullivan Machinery Co. (Steam or Air), R'y Exch bldg, Chicago, Ill.

Union Iron Works Co., San Francisco, Cal.

Wickes Bros. ("Murphy's" Little Champion), Saginaw, Mich.

Drills (Rotary)

(See Pneumatic Rotary Drills)

*Drills (Routing Bit)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Drills (Sensitive)

Barnes, B. F. Co., Rockford, Ill.
Barnes Drill Co., Rockford, Ill.

Barnes, W. F. & Jno. Co., Rockford, Ill.
Barr, H. G. & Co., Worcester, Mass.

Buescher Band Instrument Co., Elkhart, Ind.

Carroll-Jamieson Machine Tool Co. (11-Inch Belt Driven), Batavia, O.

Clark, Jas., Jr., Electric Co. ("Willey," Electrically Driven), 313 W Main, Louisville, Ky.

Foote-Burt Co., 4101 St. Clair av, N E, Cleveland, O.

Fox Machine Co., Grand Rapids, Mich.

Gardam, Wm. & Son. (Inc.), 221 Fulton, New York

Garvin Machine Co., 137 Varick, New York

Hamilton Machine Tool Co., Hamilton, O.

Hardinge Bros., 1036 Lincoln av, Chicago, Ill.

Harrington, E. Son & Co., 17th & Callowhill, Phila., Pa.

Helmold, J. F. & Bro., A cor Dominick, Chicago, Ill.

Henry & Wright Mfg. Co., 133 Sheldon, Hartford, Conn.

Knecht Bros. Co. (Friction), 819 Wade, Cincinnati, O.

Langeller Mfg. Co. (Upright), 67 Clifford, Providence, R. I.

Miami Valley Machine Tool Co., Dayton, O.

National Machine Co. (Drill Presses), Hartford, Conn.

Niles-Bement-Pond Co., 111 B'way, New York

Oliver, W. W. Mfg. Co. (Jewelers, Etc.), 1483 Niagara, Buffalo, N. Y.

Patterson Tool & Supply Co., Dayton, O.

Pratt & Whitney Co., Hartford, Conn.

Prentice Bros. Co., Worcester, Mass.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)

Reed, Francis Co., Worcester, Mass.

Rhoades Mfg. Co. (Sensitive Drill Press), Columbus, O.

Rockford Machine & Shuttle Co., Rockford, Ill.

St. Louis Mch. Tool Co. ("Coe," "St. Louis"), St. Louis, Mo.

Sibley Machine Tool Co., South Bend, Ind.

Sigourney Tool Co., Hartford, Conn.

Taylor & Fenn Co., 54 Arch, Hartford, Conn.

Washburn Shops of the Polytechnic Institute, Worcester, Mass.

West St. Louis Machine & Tool Co., 606 Manchester av, St. Louis, Mo.

*Drills (Shade Roller)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Drills (Shell)

American Die & Tool Co., Reading, Pa.

CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)

Lincoln-Williams Twist Drill Co., Taunton, Mass.

Lord, L. L. Co. ("Lord" Combination), Meadville, Pa.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Drills (Slate)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Nixon Mining Drill Co., Chattanooga, Tenn.

Ruggles Machine Co., Poultney, Vt.

Drills (Star)

Braunsdorf-Mueller Co., Elizabeth, N. J.

Brewer Bros., Philadelphia, Pa.

Kilborn & Bishop Co., New Haven, Conn.

STEWART & ROMAINE MFG. CO., 124 N 6th, Philadelphia, Pa. (See adv. index, end of book)

Stortz, Jno. & Son (Stone), 210 Vine, Philadelphia, Pa.

Drills (Stove)

Lord, L. L. Co., Meadville, Pa.

Drills (Straight Shank)

Lincoln-Williams Twist Drill Co., Taunton, Mass.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

New Process Twist Drill Co. (Twist), Taunton, Mass.

WHITMAN & BARNES MFG. CO., West Pullman, Chicago. (See adv. index & branch offices, end of book)

Drills (Straightway)

Lincoln-Williams Twist Drill Co., Taunton, Mass.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

New Process Twist Drill Co. (Twist), Taunton, Mass.

WHITMAN & BARNES MFG. CO., West Pullman, Chicago. (See adv. index & branch offices, end of book)

Drills (Suspension)

Baush Machine Tool Co., Springfield, Mass.

Birch & Birch (Speed, Suspended from Ceiling), Crawfordsville, Ind.

Cincinnati-Bickford Tool Co.

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

New Haven Mfg. Co., New Haven, Conn.

Niles-Bement-Pond Co., 111 B'way, New York

Prentice Bros. Co., Worcester, Mass.

Reed, Francis Co., Worcester, Mass.

Drills (Tap)

Bay State Tap & Die Co., Mansfield, Mass.

Chicago Screw Co. (For Machine Screw Taps), 2 N. Canal, Chicago, Ill.

CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)

Detroit Twist Drill Co., Detroit, Mich.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

New Process Twist Drill Co. (Hot Forged), Taunton, Mass.

Putnam Machine Co., Fitchburg, Mass.

Standard Tool Co., Central av & P. Ry., Cleveland, Ohio

Winter Bros. Co., Wrentham, Mass.

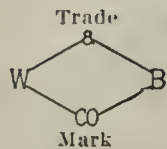
WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Taper Shank)

Lincoln-Williams Twist Drill Co. (Square Shank), Taunton, Mass.

MORSE TWIST DRILL & MACHINE Co. (Square Shank), New Bedford, Mass. (See adv. index, end of book)

The "NORKA" Two Grooved High Speed Twist Drill



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Twisted while hot from "W. & B." High Speed Steel, therefore the grain of the steel is not disturbed in any way, giving great strength. Carefully hardened, tempered and accurate to size. You can do your drilling with this Drill for less money than any other. Write for Catalogue No. 72.

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WHITMAN & BARNES MFG. CO. West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Three & Four Groove)

Lincoln-Williams Twist Drill Co., Taunton, Mass.

MORSE TWIST DRILL & MACHINE CO. New Bedford, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO. West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Track)

(See Drills, Railway Track)

Drills (Traveling)

Cincinnati-Bickford Tool Co., Cincinnati, O.

Drills (Traverse)

Fitchburg Machine Works, Fitchburg, Mass.
National Machine Co. (Double Head & Adjustable). Hartford, Conn.
Pratt & Whitney Co. (Double Head). Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.

Drills (Turret)

Niles-Bement-Pond Co., 111 B'way, New York
Quint, A. D. Hartford, Conn.

Drills (Twist)

American Die & Tool Co. ("A. D. & T. Co."). Reading, Pa.
Baldwin Steel Co. (Hudson). 133 Reade, N. Y.

CLEVELAND TWIST DRILL CO. Lakeside av & 49th, Cleveland, O. (See adv. on following page)

Detroit Twist Drill Co. ("Graham"), Detroit.
Ellery Twist Drill Co., Portsmouth, N. H.
Etna Co., Taunton, Mass. Mich.

FRASSE, PETER A. & CO. (Mfrs. Agts.), 130 Worth, New York. (See adv. index, end of book)

Lincoln-Williams Twist Drill Co. ("Peerless" High Speed), Taunton, Mass.

MORSE TWIST DRILL & MACHINE CO. (Square Shank), New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National"). Detroit, Mich.

New Process Twist Drill Co. (Hot Forged), Taunton, Mass.

PATTERSON, GOTTFRIED & HUNTER Co. (Mfrs. Agents), (Ltd.), 211 Center, New York

Standard Tool Co., Cleveland, O.

Swan, Jas. Co. (For Wood), Seymour, Conn.

Syracuse Twist Drill Co., Syracuse, N. Y.

WHITMAN & BARNES MFG. CO. (Also Self-Oiling). Chicago, Ill. (See adv. index & branch offices, end of book)

*Drills (Twist, High Speed)

CLEVELAND TWIST DRILL CO. Lakeside av & 49th, Cleveland, O. (See adv. on following page)

MORSE TWIST DRILL & MACHINE CO. New Bedford, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO. ("Diamond," "Norka"), Chicago, Ill. (See adv. index & branch offices, end of book)

Drills (Universal)

American Tool Works Co., Cincinnati, O.

Cincinnati-Bickford Tool Co. (Half Universal Radial), Cincinnati, O.

Detrick & Harvey Machine Co. (Horizontal), 508 E Preston, Baltimore, Md.

Dresses Machine Tool Co., Cincinnati, O.

Foot-Burt Co. (Adjustable), 4101 St. Clair av, N E. Cleveland, O.

Fosdick Machine Tool Co. (Half & Full Universal Radial), Cincinnati, O.

Niles-Bement-Pond Co., 111 B'way, New York

Drills (Upright)

Aurora Tool Works (Upright Drill Presses, 12-50 inch Swing), Aurora, Ind.

Barnes, B. F. Co. (Hand & Foot Power), Rockford, Ill.

Barnes Drill Co. (Hand & Foot Power), Wheeling, W. Va.

Barnes, W. F. & Jno Co., Rockford, Ill.

Barr, Henry G. & Co. (Spindle), Worcester, Mass.

Boynton & Plummer (Hand & Power Self-Feeding Upright & Horizontal), Worcester, Mass.

Burke Machinery Co., Cleveland, O.

Cincinnati-Bickford Tool Co., Cincinnati, O.

Detz Machine Tool Co., Cincinnati, O.

Fay & Scott, Dexter, Me.

Fox Machine Co., Grand Rapids, Mich.

FREVERT MACHINERY CO. (Mfrs' Agents), 18 Dey, New York. (See adv. index, end of book)

Gardam, Wm. & Son. (Inc.), 221 Fulton, New York

Hamilton Machine Tool Co. (12 to 42 inch), Hamilton, O.

Hofer Mfg. Co., Freeport, Ill.

Hilbert Machine Co., Cincinnati, O.

Illinois Iron & Bolt Co. ("Illinois" Hand Power for Wagon Mfrs., etc.), Carpentersville, Ill.

Kern Machine Tool Co., 4655 Spring Grove av, Cincinnati, O.

Knecht Bros. Co., 819 Wade, Cincinnati, O.

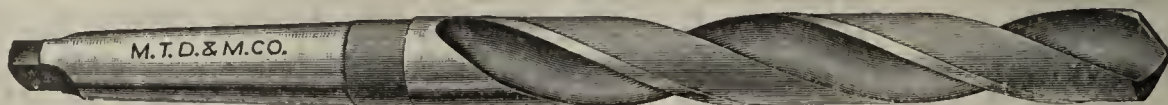
Langeller Mfg. Co., Providence, R. I.

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 New Haven Mfg. Co. (With Automatic Power Feed), New Haven, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
PATTERSON, GOTTFRIED & HUNTER, (Ltd.), 211 Center, New York
 Pratt & Whitney Co., Hartford, Conn.
 Prentice Bros Co., Worcester, Mass.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Putnam Machine Co., Fitchburg, Mass.

Reed, F. E. Co., Worcester, Mass.
 Reed, Francis Co. (Hand & Power, for Blacksmiths, Machinists, etc.), Worcester, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Sibley Machine Tool Co., South Bend, Ind.
 Sigourney Tool Co., Hartford, Conn.
 Snyder, J. E. & Son, Worcester, Mass.

STARK TOOL CO. (1 to 5 Spindles), Waltham, Mass. (See adv. index, end of book)

Superior Machine Tool Co., Kokoma, Ind.
 Wiley & Russell Mfg. Co. ("Green River" Upright Self Feeding Drilling Machines, Hand & Power), Greenfield, Mass.

***Drills (Wood Boring Brace)**

WHITMAN & BARNES MFG. CO., West Pullman, Chicago. (See adv. index & branch offices, end of book)

Drills & Bits (Electricians')

(See also Drills, Hammer, Brick & Stone)

Cincinnati Tool Co. ("Hargraves"), Cincinnati, O.

CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)

Detroit Twist Drill Co., Detroit, Mich.
 Deuse, J. S. (Bits & Gimlets), Chester, Conn.

Dicke, C. H., Tool Co., Downers Grove, Ill.
 Jennings, C. E. Co., 42 Murray, New York
 Krauter & Co. (For Brick & Stone), Newark, N. J.

Mayhew, H. H. Co., Shelburne Falls, Mass.

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

New Process Twist Drill Co. (Twist), Taunton, Mass.

Osborne, Henry G. (For Brick & Stone), 74 Cortlandt, New York
 Pierce Specialty Co. (For Brick & Stone), Elkhart, Ind.

Pugh, Job. T., 2100 Ludlow, Phila., Pa.
 Standard Tool Co. (For Brick & Stone), Cleveland, O.

Stortz, John & Son, 210 Vine, Philadelphia.
 Swan, James Co., Seymour, Conn. Pa.

Syracuse Twist Drill Co., Syracuse, N. Y.
WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Drills & Listers (Combined)

Bradley, David Mfg. Co., Bradley, Ill.
 Gale Mfg. Co. (Riding & Walking), Albion, Mich.

Moline Plow Co. (Riding), Moline, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rock Island Plow Co., Rock Island, Ill.

***Drip Pans (Automobile)**

BURROWES, E. T. CO. ("Royal"), Portland, Me. (See adv. index, end of book)

Drips (Gauge Cock)

Knapp Mfg. Co., 20 Warren, New York

Drive Pole Steps

(See Pole Steps, Drive)

Drivers (Brad)

(For Boarding or Nailing Door Mouldings)
 Seymour & Whitlock, 43 Lawrence, Newark, N. J.

Drivers (Coopers' Hoop)

Drew, C. & Co., Kingston, Mass.
 Indiana Small Handle W'ks, Fort Wayne, Ind.
 Piqua Handle & Mfg. Co., Piqua, O.
 Stortz, John, & Son, 210 Vine, Phila., Pa.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Drives (Angle Chain)

Ams, Max Machine Co. ("Positive"), Mount Vernon, N. Y.

***Drives (Motor)**

ELECTRIC CONTROLLER & MFG. CO. (Direct for Planers, etc.), Cleveland, O. (See adv. index & branch offices, end of book)

Drives (Power)

Cushman Electric Co. (Variable Speed Motor), Concord, N. H.
 Dodge Mfg. Co., Mishawaka, Ind.

FAWCUS MACHINE CO., 2820 Small-man, Pittsburg, Pa. (See adv. index, end of book)

Roth Bros. & Co. (Electric), Loomis & Adams, Chicago, Ill.

R-W Speed Variator Co. (Variable Speed), 149 B'way, New York
 Stephens-Adamson Mfg. Co. (Manilla Rope), Aurora, Ill.

***Drives (Power, Friction Cone Pulley)**

EVANS FRICTION CONE CO., 1288 Center, Newton Center, Mass. (See adv. index, end of book)

***Drives (Right Angle)**

PATTERSON, GOTTFRIED & HUN-ter (Ltd.), 211 Center, New York

Drives (Rope)

(See Rope Drives)

Drivers (Staple)

McIntire, G. A. & Co., Port Chester, N. Y.

Drop Black

Bihn & Wolff Co., Bridesburg, Phila., Pa.
 Binney & Smith Co., 81 Fulton, New York
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Seaver & Co., 120 Milk, Boston, Mass.

Drop Forgings

(See Forgings, Drop)

Drug Store Fixtures

(See Store & Bar Fixtures)

***Drums (Car Heater)**

CHICAGO CAR HEATING CO., Rail-way Exchange bldg, Chicago, Ill., & 170 B'way, New York. (See adv. index, end of book)

Drums (Gas)

(See Holders, Gas)

***Drums (Glycerine & Oil)**

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Drums (Hoisting)

(See Engines, Hoisting; also Engines, Hoisting, Contractors')

Drums (Incline)

(Incline Drums & Machinery)

Helmick Foundry & Machine Co., Fairmont, W. Va.

Niles Mine & Mill Supply Co., Citizens hldg, Cleveland, O., & Niles, O.
 Phillips Mine & Mill Supply Co., Pittsburg, Pa.

South Side Foundry & Machine Works, Charleston, W. Va.
 Stine, J. C. Co., Tyrone, Pa.

Drums (Rope Driving)

Dodge Mfg. Co., Mishawaka, Ind.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.

Link Belt Co., W. 39th cor. Stewart av, Chicago, Ill., & Nicetown, Phila., Pa.

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Vulcan Iron Works, Wilkes-Barre, Pa.

Woonsocket Machine & Press Co., Woonsocket, R. I.

Drums (Sand)

Cummer, F. D. & Son Co., Cleveland, O.

***Drums (Seamless Pressed Steel)**

PRESSED STEEL TANK CO. (Ship-ping), 720 Hanover, Milwaukee, Wis. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Drums (Steam or Mud)

East Jersey Pipe Co., Paterson, N. J.
KEWANEE BOILER CO., Kewanee, Ill.,
 & 35 Michigan av., Chicago, Ill. (See
 adv. index, end of book)
 Murray Iron Works Co., Burlington, Iowa.
 National Tube Co. ("Shelby" Seamless Steel
 Tubing), Pittsburg, Pa.
PETROLEUM IRON WORKS CO.,
 Sharon, Pa., & Farmers Bank bldg., Pitts-
 burg, Pa. (See adv. index, end of book)

Drums (Steel Shipping)

(See Barrels, Steel Shipping)

Drums (Winding)

Bonnot Company, Canton, O.
 Caldwell, H. W. & Son Co. (For Power Scrap-
 ers or Malt Shovels), 17th & Western av.,
 Chicago, Ill.

Dodge Mfg. Co., Mishawaka, Ind.
 Michigan Brick & Tile Machine Co., Morenci,
 Mich.
 Poole Engineering & Machine Co., Woodberry,
 Station, Baltimore, Md.
 Potts, C. & A. & Co. (Inc.), Indianapolis, Ind.
 South Baltimore Steel Car & Foundry Co.,
 Baltimore, Md.
 Steele, J. C. & Son, Statesville, N. C.
 Union Foundry & Machine Co., Pittsburg, Pa.

***Drums (Wooden)**

BALTIMORE COOPERAGE CO., THE.
 c Hanover & Creek, Baltimore, Md. (See
 adv. index, end of book)

***Dry Cleaners Storage System (Naphtha)**

BOWSER, S. F. & CO. (Inc.), Fort Wayne,
 Ind. (See adv. index & branch offices,
 end of book)

Dry Colors

(See Color Manufacturers)

Dry Docks (Steel, Floating)

Maryland Steel Co. (A Specialty), Baltimore,
 Md.

Dry Docks & Marine Railways

(See also Shipbuilders)

ALABAMA.

MOBILE—Ollinger-Bruce Dry Dock Co.

CALIFORNIA.

SAN FRANCISCO—Boole, W. A. & Son, 20
 California
 California Engineering & Construction Co.,
 Rialto bldg
 Hall Bros. Marine Railway & Shipbuild-
 ing Co., 312 California
 San Francisco Dry Dock Co., 302 Calif.
 South San Francisco Dock Co., Nevada blk
 Union Iron Works Co.

CONNECTICUT.

GILDERSLEEVE—Gildersleeve S. & Sons
NEW HAVEN—Graves, Geo. M.
 Petremont Boat Co.
 Thatcher, Stephen

NEW LONDON—Davidson, W. H.
 New London Marine Iron Works
 Thames Marine Railway Co.
 Trumbull Marine Railway Co.

NOANK—Palmer, Robt. & Son Ship Bldg. &
 Marine Railway Co.

DELAWARE.

WILMINGTON—Amer. Car & Foundry Co.
 Harlan & Hollingsworth Corporation
 Pusey & Jones Co. (Marine Railway)

FLORIDA.

JACKSONVILLE—Merrill-Stevens Co.

GEORGIA.

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Shipowners' Dry Dock Co., No. Halsted st
 bridge
MOUND CITY—Mound City Marine Railway &
 Dry Dock Co.

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JEFFERSONVILLE—Howard Ship Yards Co.

LOUISIANA.

BERWICK—Berwick Shipyard & Mfg. Co.

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BELFAST—Merchants Marine Railway Co.
PORTLAND—Maine Electric Co., 25 Com-
 Portland Shipbuilding Co. mercial
ROCKLAND—North Marine Railway
 Snow, I. L. & Co.

MARYLAND.

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 Beacham, J. S. & Bro., Covington, ft War-
 Booz Bros., ft of E Montgomery ren av
 Chesapeake Marine Railway Co., Philpot c
 Point
 Marine Railway Machine & Boiler Works,
 1301 Philpot
 Maryland Steel Co., Sparrows Point
 Nilson Yacht Building Co., Ferry Bar
 Reeder, Oliver & Son, Hughes av & Cov-
 ington
 Shoop, Frank J., ft Stevenson, Locust
 Point
 Skinner Ship Building & Dry Dock Co.,
 ft E Fort av, Locust Point
 Spedden Shipbuilding Co., Boston corner
 Chesapeake
 Woodall, Wm. E. & Co., ft. Allen, Locust
 Point
SOLOMONS—Marsh, J. T., Point
SPARROWS POINT—Maryland Steel Co. (Dry
 Dock & Marine Railway)
WHITEHAVEN—Catlin, W. J. & Bro.

MASSACHUSETTS.

BOSTON—Atlantic Works, 70 Border, E. B.
 Crandall, H. I. & Son Co., 102 Border
 East Boston Dry Dock Co., 80 Border
 Ellis, W. H., 17 Milk
 Hayes, Geo. & Co., 166 Devonshire
 Lawler Bros., 16 City sq, Chtn.
 Lockwood Mfg. Co. (Marine Railway), 65
 Summer, E. B.
 Rendle, W. S. & Co., 135 Prescott, E. B.
 Ross, Jos. Corporation, 28 School
 Simpson's Patent Dry Dock Co., Margi-
 nal n Jeffries
 Tidd, L. R., 166 Devonshire
GLOUCESTER—Burnham Bros. (Railway)
 Rocky Neck Marine Railway Co.
MARBLEHEAD—Frazier, J. H. (Railway)

MICHIGAN.

BAY CITY—Bay City Dry Dock (Jas. & Jas. E.
 Davidson)
CHARLEVOIX—Washburn, O. S. & Son
DETROIT—Detroit Shipbuilding Co., ft Clark
 Dupuis, A. J. Co., 1802 Ford bldg av
 Great Lakes Engineering Works, 308 At-
 water E
 Griffin, M. J., 169 Stanton av
HOUGHTON—Croze, Jos.
PORT HURON—Fitzgerald, J. H. & T. J.
WEST BAY CITY—Davidson, Jas. (Dry Docks
 Only)

MINNESOTA.

DULUTH—Duluth-Superior Dredging Co.
 Grignon, Napoleon

MISSOURI.

ST. LOUIS—American Car & Foundry Co.,
 915 Olive

NEW JERSEY.

CAMDEN—Dialogue, Jno. H. & Son
HOBOKEN—Tietjen & Lang Dry Dock Co.
JERSEY CITY—Brown Dry Dock Co., ft
 Burt & Mitchell, ft Morris Essex
 Miller, Alex. & Bro., ft of Morris
 Rickard, C. N., 344 Arlington av
PERTH AMBOY—Perth Amboy Dry Dock Co.
 Raritan Dry Dock Co.

NEW YORK.

BUFFALO—Buffalo Dry Dock Co., Buffalo
 Creek & Ganson
 Empire Shipbuilding Co., ft Genesee
 Riley's Dry Dock, ft Charles
GREENPORT—Greenport Basin & Const. Co.

KINGSTON—Balsden, Jno. J.
 Hildebrand, Conrad (S. Rondout)
NEWBURGH—Marvel, T. S. Shipbuilding Co.
 (Marine Railways)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Atlantic Dock Co., 1 N Pier,
 Atlantic Dock
 Crane's, Theo. A. Sons, Erie Basin
 Downing & Lawrence, ft Court
 Erie Basin Dry Dock, ft of Beard & Long
 Gokey, Wm. & Son, Erie Basin Dock
 Morse Dry Dock & Repair Co., ft 57th
 N. Y. Dock Co., ft Montague
 Robins, Jno. N. Co., ft Dwight, Erie Basin
 South Brooklyn Dry Dock Co., ft 32d

Boroughs of Manhattan & Bronx.

NEW YORK—American Car & Foundry Co.,
 165 Broadway
 Burlee Dry Dock Co., 1 B'way
 Crane's, T. A., Sons' Co., 80 Broad
 Erie Basin Dry Docks, 19 Whitehall
 Havana Dry Dock Co., 21 State
 Hunter's Point Dry Dock Co., 1 B'way
 McWilliams, Frank, 1 B'way
 Newport News Shipbuilding & Dry Dock
 Co., 30 Church
 Robins, Jno. N. & Co., 25 Whitehall
 Shewan, Jas. & Sons, ft of Houston
 Starin, Jno. H., Pier 13, N R.
 Tregarthen, Jas. Son & Co., ft 7th, E R.
 Walsh, Jno. F., 136 Charlton

Borough of Queens.

LONG ISLAND CITY—Ward & Co.

Borough of Richmond.

WEST NEW BRIGHTON—McWilliams,
 Frank
 (End of New York City)
OGDENSBURG—St. Lawrence Marine Railway
 Co.

NORTH CAROLINA.

WASHINGTON—Mutual Machine Co.
WILMINGTON—Skinner, Louis H.

OHIO.

ASHTABULA—Laird, Jas. G. & Sons
CINCINNATI—Queen City Marine Railway Co.,
 Eastern av nr Waldron
CLEVELAND—American Shipbuilding Co., 2017
 Superior av
TOLEDO—Gilmore Bros., ft McKinney
 Toledo Marine Railway, Summit av nr Man-
 hattan Mills

PENNSYLVANIA.

PHILADELPHIA—Cramp, Wm. & Sons Ship
 & Engine Building Co.

RHODE ISLAND.

EAST PROVIDENCE—Providence Dry Dock &
 Marine Railway
WICKFORD—Saunders, A. E.

SOUTH CAROLINA.

CHARLESTON—Riverside Iron Works

TEXAS.

GALVESTON—Galveston Wharf Co.
 International Creosoting & Construction Co.

VIRGINIA.

BERKLEY—Colonna Marine Railway Corp.
HAMPTON—Hall, Warren
NEWPORT NEWS—(See Shipbuilders)
NORFOLK—Core, W. T.
 Smith & McCoy
 Taylor, Geo. T.
PORTSMOUTH—Portsmouth Marine Ry.
RICHMOND—(See Shipbuilders)

WASHINGTON.

SEATTLE—Moran Co.
 Puget Sound Bridge & Dredging Co.
 United States Blow Pipe & Hydraulic W'ks

WISCONSIN.

MANITOWOC—Burger, H. B., Jr.
 Manitowoc Dry Dock Co.
MILWAUKEE—Milwaukee Dry Dock Co.
SUPERIOR—Superior Shipbuilding Co.

Dry Kilns

(See Kilns, Drying)

Dry Pans

(See Pans, Dry)

Dryer & Calcining Apparatus

Cummer, F. D. & Son Co., The Arcade, Cleveland, O.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Dryers (Brick)

(See also Kilns, Dry)

American Blower Co., 1400 Russell, Detroit, Mich.

American Clay Machinery Co., Bucyrus, O.

American Process Co., 68 William, New York
Barron Dryer Co. ("Chicago," "Iron Clad" & "Barron," Tender Clay), 84 La Salle, Chicago, Ill.

Casey-Hedges Co., Chattanooga, Tenn.

Chambers Bros. Co., 52d, bet. Lancaster av. Philadelphia, Pa.

Cummer, F. D. & Son Co., 413 Arcade, Cleveland, O.

Hartford Blower Co., Hartford, Conn.

Martin, Henry, Brick Machine Mfg. Co., Lancaster, Pa.

Means Foundry & Machine Co., Steubenville, O.

Mock, J. F., Hartford City, Ind.

Morrison, Trammell Brick Co., Rome, Ga.

National Blower Works, Milwaukee, Wis.

New York Blower Co., 25th pl & Stewart av. Chicago, Ill.; Works: Bucyrus, O.

Ohio Ceramic Engineering Co. (Hot Air), Cleveland, O.

Pratt Pressed & Firebrick Co., Van Meter, Ia.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Scott's Patent Brick Car Co., (Open Air System), Knoxville, Tenn.

Sharer Dryer & Kiln Co., 914 Walnut, Phila., Pa.

Sparta Brick & Tiling Co. (Open Air), Sparta, Mich.

Standard Dry Kiln Co., Indianapolis, Ind.

Vose & Aregood Dryer Co., 78 LaSalle, Chicago, Ill.

Dryers (Cartridge Shell)

Rockwell Furnace Co., 26 Cortlandt, New York

Dryers (Cement & Asphalt)

Abbe Engineering Co., 220 B'way, New York

ALLIS-CHALMERS CO. (Cement & Ore), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Alsing, J. R. & Co., 75 Guernsey, Brooklyn.

American Blower Co., Detroit, Mich. N. Y.

American Process Co. (Automatic), 68 William, New York

Atlas Dryer Co., Cleveland, O.

BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)

Cummer, F. D. & Son Co., The Arcade bldg. Emerick, Geo. S., Nazareth, Pa. Cleveland, O.

Nordyke & Marmon Co., Indianapolis, Ind.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Smith, Theodore & Sons Co., ft of Essex, Jersey City, N. J.

Sterritt-Thomas Foundry Co., 32d & Smallman, Pittsburg, Pa.

Variety Iron & Steel Works Co., Cleveland, O.

Vulcan Iron Works, Wilkes-Barre, Pa.

Dryers (Centrifugal Metal Parts)

Curtis, Albert B. ("Curtis" for Drying Small Parts that are either Nickled or Dipped, etc.), Worcester, Mass.

*Dryers (Coal, Stone, Etc.)

BARTLETT, C. O. & SNOW CO. (For Coal), French st., Cleveland, O. (See adv. index, end of book)

REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Dryers (Coffee)

American Process Co., 68 William, New York

Salem Iron Works ("Hege"), Winston Salem, N. C.

*Dryers (Cylinder)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Dryers (Fertilizer)

American Process Co., 68 William, New York

Anderson, V. D. Co. (1 to 3 Cylinder), Cleveland, O.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

Dryers for Concentrates

American Process Co., 68 William, New York

Cummer, F. D. & Son Co. Cleveland, O.

Power & Mining Machinery Co., 52 William, Cudahy, Wis.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Dryers (Garbage)

American Process Co., 68 William, New York

Anderson, V. D. Co. (Also Tankage), Cleveland, Ohio

KUTZTOWN FOUNDRY & MACHINE CO., 116 W Broad, Phila., Pa. (See adv. index & branch offices, end of book)

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Dryers (Grain & Malt)

American Process Co., 68 William, New York

BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)

Cummer, F. D., & Son Co., Arcade bldg, Cleveland, O.

Hess Warming & Ventilating Co. (Pneumatic System), 131 La Salle, Chicago, Ill.

Louisville Drying Machinery Co., (Distillers & Brewers Dryers)

Morris, F. R., Milwaukee, Wis.

Morris, Henry G., 333 Walnut, Phila., Pa.

National Blower Works, 17th & St. Paul av. Milwaukee, Wis.

Remmers, B. & Sons (Also for Starch, Vegetables, Chemicals, etc.), Bourse bldg, Phila., Pa.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Sturtevant, B. F. Co., Hyde Park, Mass.

Thacher, Geo. H., & Co., Albany, N. Y.

Vogt, Henry Machine Co., Louisville, Ky.

Dryers (Hoof or Bone)

American Process Co., 68 William, New York

Anderson, V. D., Co., Cleveland, O.

Bigelow Co., New Haven, Conn.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Dryers (Hot Roll for Veneer Lumber)

Fischer Machine Works, 710 Carroll av, Chicago, Ill.

Grand Rapids Veneer Works, Monadnock blk, Chicago, Ill.

RUGGLES-COLES ENGINEERING CO., 39 Cortlandt, New York. (See adv. index, end of book)

Dryers (Jacketed Cylindrical)

American Process Co., 68 William, New York

Petty, J. K. & Co. (Lebanon Boiler Works), Stephen Girard bldg, Phila., Pa. Works: Lebanon, Pa.

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NEW YORK

CHICAGO

Dryers (Leaf Tobacco)

American Process Co., 68 William, New York
Philadelphia Textile Machinery Co., Phila., Pa.

***Dryers (Leather Scrap)**

RUGGLES-COLES ENGINEERING CO., 39
Cortlandt, New York. (See adv. index, end
of book)

Dryers (Lumber)

American Blower Co., Detroit, Mich.
American Process Co., 68 William, New York
New York Blower Co., 25th pl & Stewart av,
Chicago, Ill.; Works: Bucyrus, O.
Sturtevant, B. F. Co., Hyde Park, Mass.
Turney Drier Co., Columbia bldg., Louisville,
Ky.

Dryers (Meal)

American Process Co., 68 William, New York
Buffalo Foundry & Machine Co., Buffalo, N. Y.
Great Western Mfg. Co., Leavenworth, Kan.
Nordyke & Marmon Co. (Steam, etc.), Indian-
apolis, Ind.
Remmers, B. & Sons, Bourse bldg., Phila., Pa.
RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. index,
end of book)

Dryers (Mold)

American Process Co., 68 William, New York
Hanna Engineering Works ("Hanna" Porta-
ble), 820 Elston av, Chicago, Ill.
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Tilghman-Brooksbank Sand Blast Co. (Portable
for Foundry Use), 1126 S 11th, Phila., Pa.

Dryers (Ore)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices,
end of book)
American Process Co., 68 William, New York
Chalmers & Williams (Revolving), Commer-
cial Nat'l Bank bldg, Chicago, Ill.
Cummer, F. D. & Son Co., Arcade, Cleveland, O.
Denver Engineering Works Co., Denver, Colo.
Hendy, Joshua, Machine Works, 38 Fremont,
San Francisco, Cal.
Honhorst, Joseph, Co., Cincinnati, O.
Mine & Smelter Supply Co., Denver, Colo.
Power & Mining Machinery Co. (Revolving,
etc.), Cudahy, Wis.
RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. index,
end of book)
Standard Sand & Machine Co., 5151 St. Clair,
Cleveland, O.
Union Iron Works Co., San Francisco, Cal.

Dryers (Revolving)

American Process Co., 68 William, New York
RUGGLES-COLES ENGINEERING CO., 39
Cortlandt, New York. (See adv. index, end
of book)
Stauffer, Geo. E., East Stroudsburg, Pa.

Dryers (Rotary)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)
American Process Co. (Direct Head Blast),
68 William, New York
Buffalo Foundry & Machine Co. (Vacuum &
Drum), Buffalo, N. Y.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Power & Mining Machinery Co., Cudahy, Wis.
RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. index,
end of book)
Variety Iron & Steel Works Co., Cleveland, O.

***Dryers (Salt)**

RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. index,
end of book)

Dryers (Sand)

(See Sand & Gravel Heaters & Dryers)
(See also Stoves, Sand Drying)

Dryers (Soap)

American Blower Co., Detroit, Mich.
American Process Co., 68 William, New York
Barney Ventilating Fan Works (A. B. Frank-
lin, Prop.), 24 Binford, Boston, Mass.
Sturtevant, B. F. Co., Hyde Park, Mass.

Dryers (Starch)

National Blower Works, Milwaukee, Wis.

Dryers (Textile)

(See Textile Machinery, Etc., in Letter T)

Dryers (Tobacco)

(See Dryers, Leaf Tobacco)

Dryers (Vacuum)

American Process Co., 68 William, New York
Buffalo Foundry & Machine Co. (Drying &
Impregnating Apparatus), Buffalo, N. Y.
Devinc, J. P. Co. ("Emil Passburg" System,
Drying & Impregnating Apparatus), Buf-
falo, N. Y.
Hubbard's, Norman, Sons. (Drying & Im-
pregnating Apparatus), 265 Water, Brook-
lyn, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
Stokes, F. J. Machine Co. (For Pharmaceu-
tical Purposes), Phila., Pa.

Drying Frames

(See Clothes Dryers of Various Kinds)

Drying Rooms

(See Clothes Dryers, Steam, Hot Water, Hot
Air & Gas)

Dumb Bells (Wood)

Piqua Handle & Mfg. Co., Piqua, O.
Sommer's, Jno. Son, 355 Central av, Newark,
N. J.

Dumb Bells & Quoits

American Foundry & Mfg. Co., 11th & Heb-
ert, St. Louis, Mo.
Arcade Mfg. Co. (Japanned Quoits), Freeport,
Barber Mfg. Co., Ashtabula, O.
CANTON FOUNDRY & MACHINE CO.
(Dumb Bells Only), Canton, O. (See adv.
index, end of book)
Hardware & Woodenware Mfg. Co., 826 B'way,
New York
Hellenberg & Son (Wood Dumb Bells Only),
Coldwater, Mich.
Kupferle, Jno. C., Foundry Co., St. Louis, Mo.
Narragansett Machine Co. (Dumb Bells of All
Kinds), Providence, R. I.
National Supply Co. (Quoits), 7 W Lombard,
Baltimore, Md.
Reading Hardware Co., Reading, Pa.
Swett, A. L. Iron Works, Medina, N. Y.
Tatum, Samuel C. Co., Cincinnati, O.
Weller Hdw. & Foundry Co., Horseheads N. Y.
Wrightsville Hardware Co., Wrightsville, Pa.

***Dumb Waiter Doors (Auto-
matic)**

(See Dumb Waiter Doors, Fireproof)

***Dumb Waiter Doors (Fireproof)**

AMERICAN METAL DOOR CO. (Auto-
matic), Jamestown, N. Y. (See adv. in-
dex, end of book)

DAHLSTROM METALLIC DOOR CO.,
Jamestown, N. Y., & 299 B'way, New York.
(See adv. index & branch offices, end of book)
RAPP, JNO. W. CO., General Office &
Works, College Point, New York, Sales
Rooms, 4 Madison av, New York. (See adv.
index, end of book)

***Dumb Waiter Rope**

(See also Cordage & Twine Manufacturers)
CARPENTER, GEO. B. & CO., 202
S Water, Chicago, Ill. (See adv. index, end
of book)
SAMSON CORDAGE WORKS, 88
Broad, Boston, Mass. (See adv. index, end
of book)
SILVER LAKE CO. (Braided), 78
Chauncy, Boston, Mass. (See adv. index,
end of book)

Dumb Waiters**CALIFORNIA.**

SAN FRANCISCO—Cahill & Hall Elevator Co.
McNicol, A. J. Elevator Co., 207 2d
OTIS ELEVATOR CO., Stockton, North
Point & Beach. (See adv. index, end of
book)
Pettitt, J. G., 33 Beale

COLORADO.

DENVER—McCarthy, M. J. & Co., 1134 Larimer

CONNECTICUT.

NEW HAVEN—MacKenzie, Geo. M., Water c
East

ILLINOIS.

CHICAGO—Burdett-Rowntree Mfg. Co., 85 W
Jackson boul
Gibbs, Chas. & Co., 395 W Lake
Munger, Chas. L., 142 Lake
OTIS ELEVATOR CO., 9 Jackson boul.
(See adv. index, end of book)
Reedy, J. W. Elevator Mfg. Co., 91 Illi-
Union Elevator & Machine Co., 144 Ontario

IOWA.

COUNCIL BLUFFS—Kimball Bros. Co.

MARYLAND.

BALTIMORE—Bates', James Sons, Pratt c
President
OTIS ELEVATOR CO., Equitable bldg.
(See adv. index, end of book)

MASSACHUSETTS.

BOSTON—Beckwith Elevator Co., 123 Pearl
Brewer, Elias & Co., 19 Bowker
Kimball, C. E. & Son, 151 Pearl
Perry, Wm. J., 463a Atlantic av
SALEM—Salem Elevator Works. (See adv.
index, end of book)
SPRINGFIELD—Springfield Elevator & Pump
Co. (Power & Hand)

MICHIGAN.

DETROIT—O'Connell, H. P., 564 4th av
OTIS ELEVATOR CO., Penobscot
bldg. (See adv. index, end of book)

MINNESOTA.

MINNEAPOLIS—Craig, W. H. & Co., 541 6th
Lagerquist, Gust, 516 N 3d av, S
ST. PAUL—Franklin Machine Works, 2208
W University av
Lee & Hoff Mfg. Co., 81 E Fillmore av

MISSOURI.

ST. LOUIS—Miller, Wm. A. Elevator Mfg. Co.,
9th & Victor
OTIS ELEVATOR CO., Security
bldg. (See adv. index, end of book)

NEW JERSEY.

NEWARK—**STORM MFG. CO.** (See adv.
index, end of book)
Webber, G. A., 184 Penna av.

NEW YORK.

ALBANY—Gick & Sayles, 266 Hudson av
BROOKLYN—(See New York City, Borough of
Brooklyn)

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

BUFFALO—WARSAW ELEVATOR CO.
(Steel Roller Bearings), Erie Co. Bank bldg.
(See adv. index, end of book)
COHOES—COHOES IRON FOUNDRY &
Machine Co. (See adv. index, end of book)

NEW YORK CITY.**Borough of Brooklyn.**

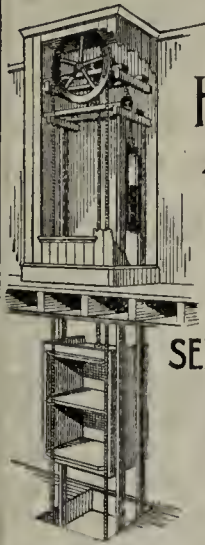
BROOKLYN—Bergquist, Jacobson & Co., 258
3d av
Rodgers, R. M., & Co., 173 Washington av
Seaberg, Gustav, 407 Douglas

Boroughs of Manhattan & Bronx.

NEW YORK—Bergman, Louis C., 304 W.
127th
Burdett-Rowntree Mfg. Co., 147 W. 26th
Burwak Elevator Co., 216 Fulton
De Witt, O. W. Co., 256 W. 81st
Dowdall, Chas. E., 152 W B'way
Gordon Bros., 176 Wooster
Hoffman, Chas. W Co., 223 W. 28th
Holland, Thos. J., 211 E 84th
Larsen, Anton, & Co., Brook, cor E 134th
Murtaugh, Jas. Co. (Standard), 202 E 42d
Nelson, Alex. & Co., 103 W 95th
OTIS ELEVATOR CO., 17 Battery
pl. (See adv. index, end of book)
Roberts, Jas. H., 430 W B'way
Rouquette & Co., 47 Warren
SEDGWICK MACHINE WORKS
(Automatic & Band Brake, Brass Tube,
Simplex, etc.), 128 Liberty. (See adv.
in next column)
See, A. B. Electric Elevator Co., 220 B'way
Still, S. G., 1486 Millford pl
STORM MFG. CO., 113 Chambers.
(See adv. index, end of book)
Williams, W. & Co., 312 E 95th
(End of New York City)

POUGHKEEPSIE—SEDGWICK MACHINE
Works (Automatic & Band Brake, Brass
Tube, Simplex, etc.). (See adv. in next
column)

ROCHESTER—Kay, J. R. & S. P., Mill ft. of
Brown
Kay, J. R. & S. P., Mill ft of Brown
OTIS ELEVATOR CO., Frank & Com-
mercial. (See adv. index, end of book)
SYRACUSE—Houser Elevator Co., 314 E Water
WARSAW—WARSAW ELEVATOR CO.
(Steel Roller Bearings). (See adv. index,
end of book)



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FREIGHT ELEVATORS**
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And 128 Liberty St.,
NEW YORK.**

**CATALOGS AND
ESTIMATES FURNISHED**

OHIO.

CINCINNATI—Curran, Jas. H. Elevator Co.,
114 W. 2d
OTIS ELEVATOR CO., Mercantile
Library bldg. (See adv. index, end of
book)
REEDY, H. J. CO., (Push Button,
Electric & Hand), 11 W. 2d. (See adv.
index, end of book)
WARNER ELEVATOR MFG. CO.
(See adv. index, end of book)
CLEVELAND—Edmonds Elevator Co., 515
Champlain
OTIS ELEVATOR CO., Rockefeller
bldg. (See adv. index, end of book)
COLUMBUS—Columbus Elevator & Machine Co.,
Curtis & Jefferson avs
Morris, C. E., & Co., 3d & Naghton
TOLEDO—Houghton Elevator & Machine Co.
Universal Machine Co.

PENNSYLVANIA.

LANCASTER—Welchans, A. C., 202 W James
PHILADELPHIA—Albro-Clem Elevator Co.,
7th & Glenwood av
Energy Elevator Co., 214 New
O'Neill Elevator Co., 628 Cherry
OTIS ELEVATOR CO., 12th & Sansom.
(See adv. index, end of book)
U. S. Elevator Co., 216 Dock.
PITTSBURG—Marshall Bros., S 21st
OTIS ELEVATOR CO., Keenan bldg.
(See adv. index, end of book)
Union Elevator Co., 302 Gist
READING—SPEIDEL, JOHN G. (See adv.
index, end of book)

WISCONSIN.

MILWAUKEE—Brodesser Elevator Mfg. Co.
KIECKHEFER, A. ELEVATOR
Co., 1026-1104 St. Paul av. (See adv.
index, end of book)



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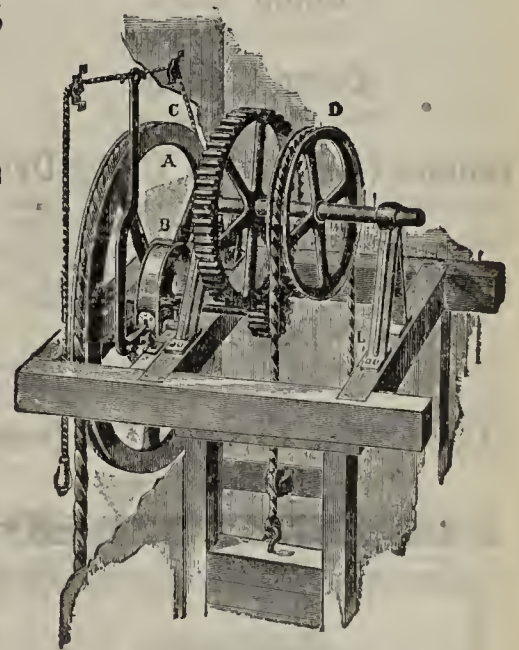
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The Improved Humphrey.
The Manhattan Dumb Waiter.
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Carriage Elevators, Etc.

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34 MERCHANTS' ROW, BOSTON, MASS.

LONDON OFFICE, 118 Holborn St., E. C.
87 ORANGE ST., NEW HAVEN, CONN.

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Burdett-Rowntree Mfg. Co. (Automatic), 85 W Jackson boul, Chicago, Ill., & 147 W. 26th st. New York
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Lehman Machine Co., Williamsport, Pa.Memphis Machine Works, Memphis, Tenn.
Moltz, Jacob J., Williamsport, Pa.
Murray, D. J., Mfg. Co., Wausau, Wis.Phoenix Mfg. Co., Eau Claire, Wis.
Prescott Co., Menominee, Mich.
Smith, Myers & Schuler Co., Cincinnati, O.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Standard Saw Mill Machinery Co., Erie, Pa.
Star Machinery Co., Seattle, Wash.Stearns Co., The, Erie, Pa.
Union Iron Works, Bangor, Me.United States Machine Co. (Shingle, etc.), Williamsport, Pa.
Vulcan Iron Works Co., Seattle, Wash.Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

Williamsport Machine Co. (Shingle, etc.), Williamsport, Pa.

Edgers (Lumber)**ALLIS-CHALMERS CO., Milwaukee, Wis.** (See adv. index & branch offices, end of book)Filer & Stowell Co., Home Office, Milwaukee, Wis.
Garland, M. Co., Bay City, Mich.

Lane Mfg. Co., Montpelier, Vt.

Edgers (Turf)American Fork & Hoe Co., Cleveland, O.
Continental Tool Co. (Solid Steel Bronze Finish), Frankfort, N. Y.Cronk & Carrier Mfg. Co., Elmira, N. Y.
Jackson Shovel & Tool Co., Montpelier, Vt.Kohler, F. E. & Co., Canton, O.
Pittsburg Shovel Co., Frick bldg, Pittsburg, Pa.; Works: Leechburg, Pa.

Union Fork & Hoe Co. (Solid Steel Bronze Finish), Columbus, O.

Eductors (Jet Water & Sand Lifting)

Schutte & Koerting Co., 1251 N 12th, Philadelphia, Pa.

Eggs (Nest)*AMERICAN CRAYON CO. (Hygienic),** Sandusky, O., & Waltham, Mass. (See adv. index, end of book)**Ejectors (Ash, Hydraulic)**

Davidson, M. T. ("Davidson") 43 Keap, Brooklyn, N. Y.

Ejectors, Jet Pumps or Syphons

(See Injectors & Ejectors, Boiler)

Ejectors (Pneumatic)**MERRITT & CO., 1024 Ridge av.,** Phila., Pa. (See adv. index, end of book)
Shone Co. ("Shone"), 134 Blackhawk, Chicago, Ill.***Ejectors (Sewage)****MERRITT & CO. ("Aerlock"), Front** & Arch, Camden, N. J. (See adv. index, end of book)**Elaterite**

(See Hydro Carbons)

Elbows (Boiler)

Brabler Mfg. Co. (with Union), Cleveland, O.

Elbows (Brass)**LUNKENHEIMER CO., General Of-** fices & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
National Mfg. & Supply Co. ("National" Radiator Brass Elbows for Hot Water), Minneapolis, Minn.**Elbows (Cast or Malleable)**

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

National Tube Co. (Drainage, Drop, Flanged, Long Radius), Pittsburg, Pa.
Ohio Brass Co., Mansfield, O.***Elbows (Conductor Pipe)****MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index, & branch offices, end of book)**Elbows (Plumbers' Rubber)**

Climax Specialty Co. ("Climax" Adjustable), Elmira, N. Y.

Continental Rubber Works, Erie, Pa.
Glauber Brass Mfg. Co. ("Cut-Me-Off" Rubber Closet), Cleveland, O.Goodrich, B. F. Co., Akron, O.
Morgan & Wright (Inc.), Detroit, Mich.**PENNSYLVANIA RUBBER CO., Jean-** nette, Pa. (See adv. index & branch offices, end of book)**Elbows (Union)**Capitol Brass Works, Detroit, Mich.
LUNKENHEIMER CO. (Brass), Gen- eral Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)Ohio Brass Co. ("Ohio"), Mansfield, O.
Williams, D. T., Valve Co., 410 E 8th, Cincinnati, O.**Elbows & Shoes (Conductor)**Berger Bros. Co., 231 Arch, Phila., Pa.
BERGER MFG. CO., THE, Canton, O. (See adv. index & branch offices, end of book)Clark, Queen & Morse, Peoria, Ill.
Dieckmann, Ferdinand, Co., Cincinnati, O.**MILWAUKEE CORRUGATING CO.,** Milwaukee, Wis. (See adv. index, end of book)**Election Booths (Steel or Wood)**

American Steel House Co., 706 11th av, New York

FOREST CITY STEEL & IRON CO. (Steel), 110th nr Detroit av, Cleveland, O. (See adv. index, end of book)
Van Dorn Iron Works Co., Cleveland, O.**Electric Bells**

(See Bells, Electric)

Electric Blasting Apparatus

(See also Blasting Fuses, Caps, Etc.)

Aetna Powder Co. ("Lion"), 143 Dearborn, Chicago, Ill.

Ingersoll-Rand Co., 11 B'way, New York

New York Powder Works, 55 Liberty, New York

Rendrock Powder Co., 11 B'way, New York

Rogers, Jno. M., Gloucester, N. J.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Electric Car Lighting Apparatus

(See Car Lighting Apparatus)

Electric Clocks

(See Clocks, Electric)

Electric Door Openers

(See Door Openers, Electric)

Electric Elevator Signals*ELEVATOR SUPPLY & REPAIR CO.,** 76 W Monroe, Chicago, Ill.; 114 Liberty, New York, & 593 Market, San Francisco, Cal. (See adv. index & branch offices, end of book)**ELECTRIC SIGNALS**

FOR

PASSENGER ELEVATORS**ELEVATOR SUPPLY & REPAIR CO.**114 LIBERTY ST. 76 W. MONROE ST.
NEW YORK CHICAGO

593 MARKET ST., SAN FRANCISCO, CAL.

Electric Fault Finders*ELECTRIC CONTROLLER & MFG. CO.,** Cleveland, O. (See adv. index & branch offices, end of book)**Electric Generators**

(See Generators, Various Kinds)

Electric Lamps

(See Lamps, Various Kinds)

Electric Light Central Stations**ALABAMA.**ALBERTVILLE—Sand Mountain El. Co.
ALEXANDER CITY—Munic. Lt. & Wtr. W'ks
ANNISTON—Anniston Electric & Gas Co.
ATHENS—Munic. El. Lt. Plant
ATTALLA—Etawah Lt. & Pwr. Co.
AUDALUSIA—Audalusia Lt. & Wtr. Co.
AVONDALE—Birmingham R'way, Lt. & P. Co.
BESSEMER—Birmingham Ry., Lt. & Pwr. Co.
BIRMINGHAM—Birmingham Ry., Lt. & P. Co.
BREWTON—Munic. Wtr. & El. Lt. Works
CARBON HILL—Munic. El. Lt. Plant
CENTERVILLE—Centerville Lt. Co.
CLANTON—Clanton Lt. & Pwr. Co.
CLAUTON—Clanton Lt. & Pwr. Co.
DECATUR—(See New Decatur)
DEMOPOLIS—Demopolis Elec. Lt. & P. Co.
ELBA—Pea River Pwr. Co.
ENTERPRISE—Enterprise El. Lt. & Pwr. Co.
EVERGREEN—Evergreen El. Lt. Plant
FLORALA—McClung, J. M. & Co., El. Lt. Plant
FLORENCE—(See Sheffield)

DOTHAN—Dothan El. Lt. & Wtr. Plant (City)
 EAST LAKE—Birmingham Ry., Lt. & P. Co.
 ENSLEY—Birmingham Ry., Lt. & P. Co.
 EUFAULA—Eufaula Gas, Electric Light & Power Co.
 EUTAW—Eutaw Water Works, E. & Power Co.
 GADSDEN—Alabama Cy, Gadsden & Attalla
 GIRARD—See Columbus, Ga. Ry. Co.
 GREENSBORO—Greensboro Wtr. & Lt. Co.
 GREENVILLE—Henderson Lt. & P. Co.
 HARTFORD—Hartford Wtr. & Lt. Plant
 HUNTSVILLE—Huntsville Ry., L. & Power Co.
 JACKSON—Jackson Lt. & Pwr. Plant
 JACKSONVILLE—Jacksonville El. Lt. & Pwr.
 JASPER—Jasper Wtr., Lt. & Pwr. Co. Co.
 LANETT—Lanett Cotton Mills.
 LUVERNE—Luverne El. Lt. Plant
 MARION—Marion Lt. & Pwr. Co.
 MOBILE—Mobile El. Co.
 MONTGOMERY—Citizens' Lt., Ht. & P. Co.
 Montgomery L. & Water Power Co.
 West D. P. (Hotel Elec. Plant)
 NEW DECATUR—Decatur L., Power & Fuel Co.
 NORTH BIRMINGHAM—N. Birmingham El. Lt. Plant
 OPELIKA—Alabama Electric Light & Power Co.
 OXFORD—(See Anniston)
 OZARK—City Elec. Lt. Plant (City)
 PHOENIX CITY—(See Atlanta, Ga.)
 PRATT CITY—Birmingham Ry. Lt. & P. Co.
 PRATTVILLE—Prattville Light & Power Co.
 ROANOKE—Roanoke El. Lt. & Wtr. Plant
 SELMA—Selma Lighting Co.
 SHEFFIELD—Sheffield Co.
 SYLACAUGA—Sylacauga Wtr. Works & El. Lt. Plant
 TALLADEGA—Alabama Pwr. Develop. Co.
 TROY—Troy El. Lt. & Wtr. Plant
 TUSCALOOSA—Tuscaloosa Ice & Lt. Co.
 TUSKEGEE—Tuskegee El. Lt. Plant
 UNION SPRINGS—Union Springs El. Lt. & Wtr. Plant
 UNIONTOWN—Uniontown Lt. & Wtr. Plant

ALASKA TERRITORY.

DOUGLAS—(See Juneau)
 JUNEAU—Alaska Elec. Lt. & Power Co.
 KETCHIKAN—Citizens' Lt., Pwr. & Wtr. Co.
 NOME—Nome El. Lt. & P. Co.
 SEWARD—Seward Lt. & Pwr. Co.
 SKAGWAY—Home Pwr. Co. (Inc.)
 VALDEY—Alaska Wtr., Lt. & Tel. Co.

ARIZONA TERRITORY.

BISBEE—Bisbee Improvement Co.
 CLINTON—Shannon Copper Co.
 CROWN KING—Crowned King Mining Co.
 DOUGLAS—Douglas Implement Co.
 FLAGSTAFF—Flagstaff Elec. Lt. Co.
 GLOBE—Globe El. Lt. & Gas Co.
 JEROME—United Verde Copper Co.
 MCCABE—McCabe Wtr., Lt. & Pwr. Co.
 MESA—Consolidated Canal Co.
 NOGALES—Nogales Elec. Lt., Ice & Water Co.
 PHOENIX—Pacific Gas & El. Co.
 PRESCOTT—Prescott Electric Co.
 TEMPE—Tempe Pumping Co.
 TUCSON—Tucson Gas, Electric Light & Power
 WILLIAMS—Grand Canyon Lt. & P. Co. Co.
 WINSLOW—Winslow El. Lt. & Pwr. Co.
 YUMA—Yuma El. & Wtr. Co.

ARKANSAS.

ARGENTA STATION—Argenta Lt. & P. Plant
 ARKADELPHIA—Arkadelphia El. Lt. Co.
 AUGUSTA—City Pwr. & Lt. Co.
 BATESVILLE—Batesville Wtr. Wks. & El. Lt. Plant
 BENTON—The Benton Lt., Pwr. & Ice Co.
 BOONVILLE—Boonville Ice, Lt. & Cold Stor. Co.
 BRINKLEY—Farrell, Light, Heat & Power Co.
 CAMDEN—Camden Power & Light Co.
 CLARENDON—Clarendon Electric Light & Ice Co.
 CONWAY—Conway Lt. Plant
 DE QUEEN—De Queen Lt., Ice & Cold Stor. Co.
 DES ARC—Planters' Cotton Oil Co.
 DEVAL'S BLUFF—Deval's Bluff El. Lt. Plant
 ELDERADO—Eldorado Light & Power Co.
 EUREKA SPRINGS—Citizens' Elec. Co.
 FAYETTEVILLE—Fayetteville El. Lt. & P. Co.
 FORDYCE—Fordyce Lt. & Wtr. Co.
 FORREST CITY—Forrest City Wtr. & Lt. Co.
 FORT SMITH—Ft. Smith Electrical Supply Co.
 Fr. Smith Light & Traction Co.
 HARRISBURG—Harrisburg El. Lt. & P. Co.
 HARRISON—Harrison Elec. Light & Ice Co.
 HELENA—Helena Gas Co.
 HOPE—City Wtr. & El. Lt. Plant.
 HOT SPRINGS—Hot Springs Water Co.
 JONESBORO—Jonesboro Water & Light Co.
 LITTLE ROCK—City El. Lt. Plant
 LONAKE—Lonake El. Lt. Plant
 LUXORA—Luxora Wtr. & Lt. Co.
 MAGNOLIA—Magnolia Ice & Lt. Co.

MALVERN—Malvern Light & Power Co.
 MAMMOTH SPRING—Mammoth Spring Elec. Light Co.
 MARIANNA—Marianna Lt. & Pwr. Co.
 MENA—Mena El. Lt. & Pwr.
 MONTICELLO—City Wtr. & Lt. Plant (City)
 MORRILLTON—Ashley El. Lt. Co.
 NEWPORT—Pond & Decker Electric Light Co.
 OSCEOLA—Osceola El. Plant
 OZARK—Altus Gin Mfg. & Imp. Co.
 PARAGOULD—Crystal Ice Co.
 PINE BLUFF—Pine Bluff Light & Water Co.
 Citizens' Lt. & Transit Co.
 POCAHONTAS—Pocahontas Ice & Power Co.
 PRESCOTT—Prescott Wtr. & Lt. Plant (City)
 RECTOR—Proctor Box & Crate Co.
 ROGERS—Rogers Lt. & Wtr. Co.
 RUSSELLVILLE—Mehts. Lt. & Cold Stor. Co.
 SEARCY—City El. Lt. Plant Distr. No. 1 (City)
 SILOAM SPRINGS—City El. Plant (Munic.)
 STUTTGART—Stuttgart Water & Elec. Lt. Co.
 TEXARKANA—Texarkana Gas & Elec. Lt. Co.
 VAN BUREN—Van Buren El. Lt. & P. Co.
 WALNUT RIDGE—Walnut Ridge & Hoxie Lt., Pwr. & Transit Co.
 WARREN—Warren Lt. & Wtr. Co.
 WYNNE—Wynne Lt. & Wtr. Works

CALIFORNIA.

ALAMEDA—City El. Lt. Plant (City)
 ANAHEIM—Anaheim El. Lt. Plant
 ANGELS CAMP—Angels El. Lt. & Pwr. Co.
 ARCATA—Arcata Lt. & Pwr. Co.
 AUBURN—Bell Electric Co.
 AVALON—Santa Catalina Island Co.
 AZUSA—Azusa El. Lt. Plant
 BAKERSFIELD—Power, Transit & Light Co.
 BENICIA—Solano Elec. Lt. & Gas Co.
 BERKELEY—Berkeley Electric Lighting Co.
 BIGGS—Biggs El. Lt. Plant
 BISHOP—Bishop Light & Power Co.
 BLACK DIAMOND—Redwood Mfg. Co.
 BOULDER CREEK—Boulder Creek Electric Light & Power Co.
 CALISTOGA—Napa Val. Pwr. Co.
 CASPAR—Mendocino El. Lt. & Pwr. Co.
 CEDARVILLE—Surprise Val. El. Lt. & Pwr. Co.
 CHICO—Chico Gas & Electric Co. Co.
 CLOVERDALE—Cloverdale Lt. & Pwr. Co.
 COLTON—City Elec. Light Plant (City Power)
 COLUMBIA—(See Sonora)
 COLUSA—Colusa Gas & El. Co.
 COMPTON—Compton El. Lt. & Pwr. Co.
 CORNING—Northern California Pwr. Co.
 CORONA—Corona Gas & Elec. Light Co.
 CORONADO—Coronado Beach Co.
 COTTONWOOD—Northern California Pwr. Co.
 CRESCENT CITY—Crescent City Light, Water & Power Co.
 CROCKETT—Contra Costa El. Lt. & Pwr. Co.
 DAVENPORT—Davenport Lt. & Pwr. Co.
 DIXON—Dixon El. Pwr. & Wtr. Co.
 DUNSMUIR—Dunsmuir El. Lt. Plant
 EMERYVILLE—Oakland Gas, Lt. & Heat Co.
 EUREKA—Eureka Lighting Co.
 North Mountain Pwr. Co.
 EXETER—(See Visalia)
 FAIRFIELD—Suisun Lt. & Pwr. Co.
 FERNDALE—Ferndale Elec. Lt. Co.
 FORREST HILL—Forrest Hill El. Co.
 FORT BRAGG—Fort Bragg El. Co.
 FORTUNA—Fortuna Lt. Co.
 FRESNO—San Joaquin Lt. & Pwr. Co.
 FULLERTON—Edison El. Co., of Los Angeles
 GALT—(See Stockton)
 GLENDORA—Glendora Lt. & Pwr. Co.
 GRASS VALLEY—(See Nevada City)
 GRIDLEY—Gridley El. Lt. & Pwr. Co.
 HANFORD—Lacey Co., H. G.
 HAYWARDS—Suburban El. Lt. Co.
 HEALDSBURG—Healdsburg El. Lt. & Water Wks
 HEMET—Hemet Milling & Pwr. Co.
 HOLLISTER—Hollister Lt. & Power Co.
 HOLTVILLE—Holton Pwr. Co.
 JACKSON—The Amador El. Ry. Co.
 KESWICK—Northern California Pwr. Co.
 KNIGHTS FERRY—Stanislaus Milling Co.
 LAKEPORT—Lake County El. Pwr. Co.
 LATON—San Joaquin Lt. & Power Co.
 LEMOORE—Lemoore El. Lt. & Wtr. Works
 LINCOLN—Lincoln El. Pwr. Co.
 LINDSAY—(See Visalia)
 LITTLE RIVER—Mendocino Lt. & Pwr. Co.
 LIVERMORE—Livermore Water & Power Co.
 LODI—Lodi El. Lt. Plant
 LONG BEACH—Edison Electric Co., Los Angeles
 LOOMIS—(See Sacramento)
 LOS ANGELES—Edison Electric Co., 124 E 4th
 Los Angeles Gas & Electric Co., 645 S Hill
 LOS BANOS—Los Banos El. Lt. Plant
 LOS GATOS—El. Light, Ice & Power Co.
 LOYALTON—Loyalton El. Lt. Co.
 MADERA—Madera Electric Co.
 MARE ISLAND—Navy Yard El. Lt. Plant
 MARTINEZ—Contra Costa El. Lt. & Pwr. Co.
 MARYSVILLE—Marysville Gas & El. Co.
 MENDOCINO—Mendocino El. Lt. & Pwr. Co.

MERCED—Merced Falls Gas & Electric Co.
 MODESTO—Consolidated Stanislaus Wtr. & Pr. Co.
 MONROVIA—Edison Electric Co. Co.
 MONTEREY—Monterey County Gas & Electric
 MOUNT BULLION—Mariposa Com. & Min. Co.
 NAPA—California Gas & Electric Co.
 NEVADA CITY—Nevada County Gas & Electric
 NEW CASTLE—(See Sacramento) Co.
 NEWMAN—Newman Lt. & Pwr. Co.
 OAKDALE—Stanislaus Milling & Pwr. Co.
 OAKLAND—Oakland Gas Light & Heat Co.
 OCEAN PARK—Edison Electric Co.
 ONTARIO—Ontario Pwr. Co.
 OROVILLE—Oroville Light & Power Co.
 OXNARD—Ventura County Pwr. Co.
 PACIFIC GROVE—(See Monterey)
 PALO ALTO—Palo Alto Lt. Co. (City)
 PASADENA—Edison Electric Co.
 PASO ROBLES—Paso Robles El. Lt. & Wtr. Co.
 PETALUMA—Petaluma Gas & El. Lt. Co.
 PLACERVILLE—Am. River El. Co.
 PLEASANTON—(See Livermore Water & Power Co., Livermore)
 POINT RICHMOND—Richmond Lt. & P. Co.
 POMONA—Edison Elec. Co. of Los Angeles
 PORT COSTA—Contra Costa El. Lt. Co.
 PORTERVILLE—Mt. Whitney Pow. Co.
 RED BLUFF—Northern California Pwr. Co. (See San Francisco)
 Red Bluff Electric Power Co.
 REDDING—Northern Cal. Power Co.
 REDONDO—Beach El. Co.
 REDLANDS—Home Gas & El. Co.
 REDWOOD CITY—United Gas & Electric Co.
 RICHMOND—Richmond Lt. & Pwr. Co.
 RIO VISTA—Rio Vista El. Lt. Co.
 RIVERSIDE—City Elec. Lt. Dept.
 ROCKLIN—California Gas & El. Corp.
 SACRAMENTO—California Gas & El. Corp.
 Sacramento Electric, Gas & R'y Co.
 ST. HELENA—St. Helena Gas & El. Co.
 SALINAS—Monterey Gas & El. Co.
 SAN BERNARDINO—Lytle Creek Pwr. Co.
 SAN DIEGO—San Diego Gas & Elec. Light Co.
 SAN FRANCISCO—California Gas & Electric Corporation
 Central Light & Power Co., Parrott bldg
 City El. Co., 347 Grand av.
 Consolidated Heat, Lt. & Pwr. Co., 333 Kearney
 Consumers Lt. & Pwr. Co., 1122 Market
 Mutual Electric Light Co., 627 Howard
 Northern California Pwr. Co.
 Pacific Gas & El. Co., 925 Franklin
 Pacific Lighting Co., 502 California
 San Francisco Gas & Electric Co., 415 Post
 Stanislaus El. Pwr. Co., Kahl bldg
 The Standard El. Co. of Cal.
 SANGER—Sanger Light & Power Co.
 SAN JACINTO—San Jacinto El. Lt. Plant
 SAN JOSE—United Gas & Elec. Co.
 SAN LEANDRO—Suburban El. Lt. Co.
 SAN LUIS OBISPO—San Luis Obispo Gas & El. Co.
 SAN MATEO—United Gas & El. Co.
 SAN PABLO—Richmond Lt. & Pwr. Co.
 SAN PEDRO—The Edison El. Co., Los Angeles
 SAN RAFAEL—San Rafael Gas & El. Lt. Co.
 SANTA ANA—The Edison El. Co., Los Angeles
 SANTA BARBARA—Merchants Mutual Lt. & Pwr. Co.
 The Edison El. Co., Los Angeles
 SANTA CLARA—City Elec. Lt. Plant (City)
 SANTA CRUZ—Big Creek Co. (Power Only)
 City El. Plant (City)
 Santa Cruz El. Lt. & P. Co.
 Co-operative Elec. Co.
 SANTA MARIA—Santa Maria El. & Gas Co.
 SANTA MONICA—Edison El. Co., Los Angeles
 SANTA PAULA—Ventura County Pwr. Co.
 SANTA ROSA—Santa Rosa Lighting Co.
 SAUSALITO—Sausalito El. Lt. Co.
 SEBASTAPOL—City Lt., Wtr. & Pwr. Co.
 SELMA—San Joaquin Lt. & P. Co. (Fresno)
 SHASTA—Northern Calif. Pwr. Co. (San Francisco)
 SIERRA CITY—Sierra City Lt. Co. cisco
 SISSON—Sisson El. Lt. Plant
 SONOMA—Sonoma Valley Co.
 SONORA—Tuolumne County Water & Electric
 Tuolumne El. Pwr. & Lt. Co. Pwr. Co.
 SOULSBYVILLE—Soulsvyville El. Lt. Co.
 SOUTH PASADENA—(See Pacific Lt. & Pwr. Co., Los Angeles)
 SOUTH SAN FRANCISCO—South San Francisco P. & Lt. Co.
 STOCKTON—Stockton Gas & Electric Co.
 American River El. Co.
 SUISUN—Suisun Electric Light & Power Co.
 SUSANVILLE—Lassen Wtr., Lt. & Pwr. Co.
 SUTTER CREEK—Amador Elec. Ry. & Light Co.
 TEHAMA—Northern Calif. Pwr. Co. (San Francisco)
 TRACY—Mt. Diablo Lt. & Pwr. Co.
 TRUCKEE—Truckee Elec. Light & Power Co.

TULARE—Tulare Gas Co.
 TUOLUMNE—West Side Lumber Co.
 UKIAH—Ukiah City El. Lt. Plant (City)
 VACAVILLE—Vacaville Water & Light Co.
 VALLEJO—Vallejo Electric Light & Power Co.
 VENTURA—Ventura County Pwr. Co.
 VISALIA—Mount Whitney Power Co.
 WATSONVILLE—Watsonville Water & Light
 WEAVERVILLE—Weaverville Elec. Co. Co.
 WHITTIER—Edison El. Co. (Los Angeles)
 WILLITS—Willits Wtr. & Pwr. Co.
 WILLOW—Willow Water & Light Co.
 WOODLAND—Woodland Gas & El. Co.
 YREKA—Siskiyou El. Pwr. Co.
 YUBA—Marysville Gas & El. Co.

COLORADO.

AGUILAR—Aguilar Lt. & Pwr. Co.
 ALAMOSA—The Mutual El. Lt. & Pwr. Co.
 ANACONDA—Gold Belt. Cons. El. Co.
 ASPEN—Roaring Fork Electric Light & Power
 BERTHOUD—Northern Colo. Pwr. Co. Co.
 BLACK HAWK—Gilpin Co. Light, Heat &
 Power Co.
 BOULDER—Boulder El. Lt. & Pwr. Co.
 BRECKENRIDGE—Goldpan Eng., Mine &
 Supply Co.
 BRUSH—Brush El. Lt., Fuel & Pwr. Co.
 BUENA VISTA—Buena Vista El. Lt. & Pwr.
 Plant
 CANON CITY—The Colorado Lt. & P. Co.
 CENTRAL CITY—The Gilpin County Lt., Ht. &
 P. Co.
 COLORADO CITY—Colorado Springs El. Ct.
 (Colorado Springs)
 COLORADO SPRINGS—Central Colo. Pwr. Co.
 Colorado Springs Electric Co.
 Pike's Peak Hydro. El. Co.
 CRESTED BUTTE—Crested Butte Light &
 Water Co.
 CRIPPLE CREEK—Gold Belt Consol. El. Co.
 DEL NORTE—Town of Del Norte El. Wks.
 DELTA—Delta El. Lt. Co.
 DENVER—Colorado Fuel & Iron Co. (For
 Their Own Works)
 Denver Gas & Electric Co.
 Denver Highlands El. Co.
 Lacombe Electric Co., 1532 Stout
 Nevada Calif. Pwr. Co.
 New Century Lt. & Pwr. Co.
 Northern Colo. Pwr. Co.
 Summit County Pwr. Co.
 United States Lt. & Traction Co.
 DURANGO—Standard Lt., Pwr. & Wtr. Co.
 The Animas Canal Power & Water Co.
 EMPIRE—Silver Mountain M. M. Co.
 ERIE—Erie El. Lt. Plant
 FLORENCE—Arkansas Valley Elec. Co.
 FORT COLLINS—The Larimer Light & P'r Co.
 FORT MORGAN—Fort Morgan Lt. & Wtr.
 Plant
 GEORGETOWN—United Hydro El. Co.
 GLENWOOD SPRINGS—Glenwood Light &
 Water Co.
 Colorado Pwr. & Irrigation Co.
 GOLDEN—Golden Illuminating Co.
 GOLDFIELD—The Gold Belt Consol. El. Co.
 GRAND JUNCTION—Grand Junction El., Gas
 & Mfg. Co.
 Red Lands Irrigation & Pwr. Co.
 GREELEY—Northern Colo. Pwr. Co.
 Home El. Lt. & Pwr. Co.
 GUNNISON—Gunnison Gas & Water Co.
 HOTCHKISS—Hotchkiss Pak'g & Pwr. Co.
 IDAHO SPRINGS—The United Hydro El. Co.
 Gem Leasing Co.
 LAFAYETTE—Northern Colo. Pwr. Co.
 LA JUNTA—La Junta Electric Co.
 LAKE CITY—Hinsdale Mining & Develop. Co.
 LAMAR—Lamar El. Co.
 LAS ANIMAS—Las Animas El. Co.
 LEADVILLE—Leadville Lt. & Pwr. Co.
 LITTLETON—Arapahoe El. Lt. & Power Co.
 LONGMONT—Northern Colo. Pwr. Co.
 LOUISVILLE—Consumers El. Co.
 LOVELAND—Loveland Lt., Heat & Power Co.
 LYONS—Rocky Mountain Hydro. El. Co.
 MANCOS—Mancos El. Co.
 MANITOU—Manitou Electric Co.
 MEEKER—Meeker Lt. Heat & Pwr. Co.
 MONTCLAIR—Montclair El. Lt. Co.
 MONTE VISTA—Monte Vista El. & Gas Lt. Co.
 MONTROSE—Montrose El. Lt. & P. Co.
 OURAY—Colorado-Wyoming El. Co.
 PAGOSA SPRINGS—Pagosa Springs. El. Lt.
 & Pwr. Co.
 PALISADES—Palisades Lt., Heat. & Pwr. Co.
 PAONIA—Paonia El. Lt. Plant
 PUEBLO—Pueblo & Suburban Traction & Ltg.
 RICO—United Rico Mines Co. Co.
 ROCKY FORD—Rocky Ford El. Co.
 SALIDA—The Salida Lt., Pwr. & Utility Co.
 SILVER PLUME—(See Georgetown)
 SILVERTON—Silverton City El. Lt. Plant (City)
 STEAMBOAT SPRINGS—Steamboat Springs
 El. Co.

TELLURIDE—Telluride Electric Light & Power
 The Telluride Power Co. Co.
 TRINIDAD—Southern Colo. Pwr. & Ry. Co.
 VICTOR—The Pueblo & Suburban Trac. & Ltg.
 The Gold Belt Consolidated El. Co. Co.
 WALSENBERG—Walsenberg Lt., P. & Ice Co.

CONNECTICUT.

ANSONIA—Derby Gas Co.
 BALTIMORE—Baltic Mills Co.
 BRANFORD—The Connecticut Co.
 BRIDGEPORT—The Connecticut Co.
 United Illuminating Co., 148 John
 BRISTOL—Bristol & Plainville Tramway Co.
 CANAAN—Berkshire Pwr. Co.
 DANBURY—Danbury & Bethel Gas & Electric
 Lighting Co.
 DANIELSON—People's Light & Power Co.
 DERBY—Derby Gas Co.
 EAST HAMPTON—East Hampton El. Lt. Co.
 EAST NORWALK—E. Norwalk El. Lt. Plant
 GAYLORDSVILLE—New Milford Pwr. Co.
 GLASTONBURY—Glastonbury Pwr. Co.
 GREENWICH—The Connecticut Co.
 GROTON—Groton El. Lt. Plant
 GUILFORD—(See Branford)
 HARTFORD—Farmington River Power Co.
 Hartford Electric Light Co.
 JEWETT CITY—Borough El. Lt. Plant (City)
 LITCHFIELD—Litchfield El. Lt. & Pwr. Co.
 MANCHESTER—Glastonbury Pwr. Co.
 MERIDEN—Meriden Electric Light Co.
 MIDDLETOWN—Middletown Elec. Light Co.
 MILFORD—The Connecticut Co.
 MYSTIC—Mystic Pwr. Co.
 NAUGATUCK—Consolidated Ry. Co.
 NEW BRITAIN—The Connecticut Co.
 NEW CANAAN—The Connecticut Co.
 NEW HAVEN—United Illuminating Co.
 NEW LONDON—New London Gas & Electric
 Co.
 New Milford Pwr. Co. Co.
 The Connecticut Co.
 NEW MILFORD—New Milford Electric Light
 NOANK—Mystic El. & Gas Lt. Co. Co.
 NORWALK—The Connecticut Co.
 NORWICH—City Electric Light Plant (City)
 PUTNAM—Putnam Light & Power Co.
 RIDGEFIELD—Ridgefield El. Co.
 ROCKVILLE—Rockville Gas & Electric Co.
 SEYMOUR—Seymour Electric Light Co.
 SHARON—Berkshire Power Co.
 SHELTON—Derby Kas Co. (Derby)
 SIMSBURY—Simsbury El. Co.
 SOUTH MANCHESTER—S. Manchester L., P.
 & T. Co.
 SOUTH NORWALK—The Connecticut Co.
 South Norwalk Electric Light Works (City)
 STAFFORD SPRINGS—Stafford Springs Elec-
 tric Light Co.
 STAMFORD—Stamford Gas & Electric Co.
 STONY CREEK—(See Branford)
 STONINGTON—(See Mystic)
 STRATFORD—United Illum. Co. (Bridgeport)
 SUFFIELD—The Connecticut Co.
 THOMASTON—Thomaston Electric Light Co.
 THOMPSONVILLE—Northern Conn. Lt. &
 Pwr. Co.
 TORRINGTON—Torrington El. Lt. Co.
 UNIONVILLE—Union El. Lt. & Pwr. Co.
 WALLINGFORD—Borough Electric Works
 WATERBURY—The Connecticut Co.
 WESTPORT—Westport Wtr. Co.
 WEST WINSTED—Winsted Gas Co.
 WILLIMANTIC—Willimantic Gas & Electric
 Light Co.
 WINDSOR—The Hartford Electric Light Co.
 WINDSOR LOCKS—Northern Connecticut Lt.
 WINSTED—Winsted Gas Co. & Pwr. Co.
 WOODBURY—Woodbury Electric Co.
 WOODSTOCK—Putnam Lt. & Pwr. Co.

DELAWARE.

DELMAR—Laurel-Seaford El. Co. (Laurel)
 DOVER—City Electric Light Plant
 GEORGETOWN—Georgetown Lt., H. & P. Co.
 LAUREL—Laurel-Seaford Electric Co.
 LEWES—Lewes El. Lt. Plant
 MIDDLETOWN—Middletown Lt. & Wtr. Plant
 MILFORD—Milford Light & Water Plant
 (City)
 NEWARK—El. Lt. & Water Plant (Munic.)
 SEAFORD—Laurel-Seaford El. Lt. Co.
 SMYRNA—Smyrna Electric Light Plant
 (Munic.)
 WILMINGTON—Wilmington City El. Co.
 Wilmington Light, Power & Telephone Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Potomac Electric Power Co.
 213 14th N W
 Southern Public Corporation (Office, Bond
 Washington Ry. & El. Co. bldg)

FLORIDA.

APALACHICOLA—Apalachicola Electric Light
 & Telephone Co.
 ARCADIA—Arcadia Electric Light, Ice & Tele-
 phone Co.
 BAGDAD—Stearns & Culver Lumber Co.
 BARTOW—Bartow Electric Plant (Munic.)
 BRADENTOWN—Manatee Lt. & Traction Co.
 CLEARWATER—Clearwater Ice Factory
 DAYTONA—The Adam Schantz Co.
 DE LAND—De Land El. Lt. & Ice Co.
 DUNNELLON—Dunnellon El. Lt. Plant
 FERNANDINA—City of Fernandina Lighting
 Plant (City)
 FORT MEYERS—Seminole Power & Ice Co.
 GAINESVILLE—Gainesville Gas & El. Pwr. Co.
 JACKSONVILLE—A. A. Kind El. Co.
 Jacksonville El. Co.
 Jacksonville El. Lt. Plant (City)
 KEY WEST—Key West Electric Co.
 KISSIMMEE—Kissimmee El. Lt. Plant (City)
 LAKE CITY—Lake City Water & Light Plant
 LAKE LAND—Lakeland Electric Light Plant
 MADISON—Madison El. Pwr. Co. (Munic.)
 LIVE OAK—Live Oak Mfg. Co.
 MIAMI—East Coast Hotel Co.
 MONTICELLO—Montecello Pwr. Co.
 MULBERRY—Mulberry El. Co.
 OCALA—Ocala Electric Light Plant (City)
 ORLANDO—Orlando Wtr. & Lt. Co.
 PALATKA—Palatka Gas Light & Fuel Co.
 PENSACOLA—Pensacola El. Co.
 PLANT CITY—Plant City Ice & Pwr. Co.
 PORT TAMPA CITY—Port Tampa Light &
 Power Co.
 QUINCY—Quincy Electric Light & Ice Co.
 City Electric Light & Water Plant (City)
 ST. AUGUSTINE—St. Johns Lt. & Pwr. Co.
 ST. PETERSBURG—St. Petersburg Invest-
 ment Co.
 SOUTH JACKSONVILLE—Florida East Coast
 R. R. Co.
 STARKE—City Electric Light & Water Plant
 TAMPA—Tampa El. Co. (City)
 TALLAHASSEE—City El. Lt. Plant (City)
 TITUSVILLE—Titusville Electric Light Co.
 WEST PALM BEACH—Ariston Ice & El. Co.
 WEST TAMPA—El. Lt. & Water Plant (City)

GEORGIA.

ABBEVILLE—Abbeville El. Lt., Wtr. & Pwr.
 Co.
 ACWORTH—Acworth El. Lt. Plant
 ALBANY—City Electric Works (City)
 Albany Power & Mfg. Co.
 AMERICUS—Americus Illuminating & Power Co.
 ARLINGTON—Arlington Lt. & Pwr. Co.
 ATHENS—Athens Electric Railway Co.
 ATLANTA—Georgia Railway & Electric Co.
 AUGUSTA—Augusta-Aiken Ry. & El. Co.
 Augusta Ry. & El. Co.
 BAINBRIDGE—Bainbridge El. Lt. Plant (City)
 BARNESVILLE—City Elec. Light Plant (Munic.)
 BLAKELY—Blakely Lt. & Wtr. Plant
 BLUE RIDGE—Blue Ridge El. Lt. & Pwr. Co.
 BRUNSWICK—Mutual Light & Water Co.
 CAIRO—Cairo Lt. & Wtr. Works
 CAMILLA—Camilla Light & Water Works Dept.
 CARROLLTON—Carrollton Electric Co. (City)
 CARTERSVILLE—Cartersville Lt. & Pwr. Co.
 CEDARTOWN—Water & Light Dept. (City)
 COCHRAN—City Electric Plant (City)
 COLUMBUS—Columbus El. Co.
 Columbus Pwr. Co.
 COMMERCE—Harmony Grove Mills
 CONYERS—Panola Lt. & Pwr. Co.
 CORDELE—Citizens' Electric Light & Power Co.
 CORNELIA—Wofford Shoals Lt. & Pwr. Co.
 COVINGTON—City Electric Light Plant (City)
 CUTHBERT—City El. Lt. & Water Plant (City)
 DAHLONEGA—The Wtr. Pwr. & Mining Co.
 DALLAS—Dallas Lt. & Pwr. Co.
 Paulding Co. El. Co.
 DALTON—City Electric Light Plant (Munic.)
 DAWSON—Dawson Electric Light Plant (City)
 DECATUR—Decatur El. Lt., P. & Water Co.
 DOUGLAS—Douglas El. Lt. & Wtr. Plant
 DUBLIN—Dublin Light & Water Works (City)
 EASTMAN—Eastman Electric Light Plant (City)
 EAST POINT—College Park El. Lt. Co.
 ELBERTON—City Electric Light Plant (City)
 FITZGERALD—Water & Light Plant (City)
 FORSYTHIE—Forsythe El. Lt. Plant
 FORT VALLEY—City Water & El. Lt. (Plant)
 GAINESVILLE—City Electric Light Plant
 GRIFFIN—City Light & Water Works (City)
 Towallga Falls Power Co.
 HARTWELL—City Electric Light Plant
 HAWKINSVILLE—Hawkinsville Cotton Mill
 HOGANSVILLE—Hogansville El. Lt. Plant
 JESSUP—Jessup Mfg. Co.
 LA GRANGE—La Grange El. Lt. Plant
 LAWRENCEVILLE—City Electric Light Plant
 McRAE—City El. Lt. Plant
 MACON—Central Georgia Pwr. Co.
 Macon Gas Lt. & Wtr. Co.

MADISON—City Electric Light Plant
 MARIETTA—Georgia Mfg. & Public Service Co.
 MILLEDGEVILLE—Milledgeville El. Lt. Co.
 MONROE—City Water & Electric Light Plant
 MONTEZUMA—Montezuma Mfg. Co.
 MONTICELLO—City El. Lt. Plant
 MOULTRIE—City Electric Light Plant
 NEWNAN—Newnan Light Plant (City)
 OCILLA—City Wtr. & Lt. Plant
 PELHAM—City Wtr. & Lt. Plant
 QUITMAN—Quitman Electric Light Plant (City)
 ROME—Rome Ry. & Lt. Co.
 SANDERSVILLE—City Wtr. & Lt. Plant
 SAVANNAH—Savannah Electric Co.
 STATESBORO—City El. Lt. & Wtr. Works
 SWAINSBORO—Swainsboro Gin & Warehouse
 TENNILE—City El. Lt. Plant
 THOMASTON—Municipal Electric Light Plant
 THOMASVILLE—Thomasville Electric Light Plant (Munic.)
 THOMSON—City El. Lt. Plant
 TIFTON—Tifton Ice & Power Co.
 TOCCOA—Toccoa Falls Lt. & Pwr. Co.
 VALDOSTA—Valdosta Ice & Mfg. Co.
 VIDALIA—City Lt. & Wtr. Plant
 WASHINGTON—City El. Lt. Plant
 WAY CROSS—The Way Cross El. Lt. & P. Co.
 WAYNESBORO—Waynesboro Electric Light & Water Works Co.
 WEST POINT—City Elec. Light Plant (City)
 WHITEHALL—El. Lt. & Pwr. Plant
 WINDER—City Electric Light Plant
 WRIGHTSVILLE—Wrightsville El. Lt. Co.

HAWAII.

HILO—Hilo El. Lt. Co. (Ltd.)
 HONOLULU—Government Electric Light System
 Hawaiian Electric Co. (Ltd.)
 Kauai Electric Co. (Ltd.)

IDAHO.

BLACKFOOT—Idaho Consol. Pwr. Co.
 BLOOMINGTON—Bear Lake Valley & El. Co.
 BOISE—Barber El. Pwr. Co.
 Capital Electric Light, Motor & Gas Co.
 Electric Power Co. (Ltd.)
 Idaho-Oregon Lt. & Pwr. Co.
 BONNERS FERRY—Bonner Watr. & Lt. Co.
 BURKE—Canyon Creek El. Co. (Ltd.)
 CALDWELL—Caldwell Pwr. Co.
 COEUR D'ALENE—Consumers' Co.
 GRANGEVILLE—City El. Lt. & Pwr. Co.
 HAILEY—Cramer El. Co.
 HARRISON—Harrison Lumber & Box Co.
 IDAHO FALLS—City El. Lt. Plant
 Idaho Pwr. & Trans. Co. (Ltd.)
 KELLOGG—Bunker Hill & Sullivan Min. & Cons. Co.
 LEWISTON—Lewiston-Clarkson Co. Cons. Co.
 MALAD CITY—Idaho Lt. & Pwr. Co.
 MONTPELIER—Bear Lake Valley Ry. & El. Co.
 MOSCOW—Idaho-Washington Lt. & Pwr. Co.
 MULLAN—Mullan Electric Light & Power Co.
 PAYETTE—Idaho Lt. & Pwr. Co.
 Payette Lt. & Pwr. Co.
 POCATELLO—Idaho Consol. Pwr. Co.
 RATHDRUM—A. O. Skinner El. Lt. & P. Co.
 SALMON—El. Lt. Plant
 SAND POINT—Pend d'Oreille El. Co.
 SHOSHONE—Shoshone Lt. & Wtr. Co.
 TWIN FALLS—Great Shoshone & Twin Falls Pwr. Co.
 WALLACE—Wallace Light & Power Co.
 WARDNER—Bunker Hill & Sullivan Mining & Construction Co.
 WEISER—Electric Light Plant (City)

ILLINOIS.

ABINGDON—Abingdon Electric Co.
 ALEDO—Belton El. Lt. Co.
 ALEXIS—Alexis El. Lt. Co.
 ALTAMONT—City El. Lt. Plant
 ALTON—Alton Gas & Electric Co.
 AMBOY—Amboy Lighting & Power Co.
 ANNA—Fruit Growers' Refrig. & Pwr. Co.
 Fruit Growers' Refrig. & Power Co.
 ARCOLA—City El. Lt. Plant
 ASHLAND—City El. Lt. Plant
 ASHLEY—City El. Lt. Plant
 ASSUMPTION—Consol. El. & Mfg. Co.
 ASTORIA—Astoria El. Lt. & Heat Co.
 ATHENS—Athens El. Plant
 ATKINSON—City El. Lt. Plant
 ATLANTA—Atlanta Elec. Light & Power Co.
 AUBURN—City El. Lt. Co.
 AURORA—Aurora City El. Lt., Ht. & Pwr. Co.
 Western United Gas & El. Co.
 AUSTIN—(See Oak Park)
 AVON—Avon Milling & Mfg. Co.
 BARRINGTON—Barrington El. Lighting Co.
 BARRY—Barry El. Plant
 BATAVIA—City of Batavia El. Lt. & Wtr. Pl.
 BEARDSTOWN—Beardstown El. Lt. & P. Co.

BELLEVILLE—St. Clair County Gas & El. Co.
 BELVIDERE—Public Service Operating Co.
 BEMENT—Bement Electric Light & Power Co.
 BENTON—City El. Lt. Plant (city).
 BERWYN—Village El. Lt. Plant (city).
 BLANDINSVILLE—Blandinsville Roller Mills Co.
 BLOOMINGTON—Bloomington & Normal Ry. & City Electric Light Plant (city). Lt. Co.
 Union Gas & Electric Co.
 BLUE ISLAND—City El. Lt. Plant (Munic.)
 BRADFORD—Bradford Electric Light Co.
 BRAIDWOOD—Electric Light Plant (City)
 BUNKER HILL—City El. Lt. Plant
 BUSHNELL—Bushnell Elec. Lt. & Pwr. Co.
 CAIRO—Cairo El. & Traction Co.
 CAMBRIDGE—Cambridge Electric Lt. & P. Co.
 CAMP POINT—The Camp Point Elec. Light & Canton—Canton Gas & El. Co. Power Co.
 CARBONDALE—Citizens Wtr. Lt. & Pwr. Co.
 CARLYLE—City El. Lt. Plant
 CARLINVILLE—Carlinville Gas & Electric Light Works
 CARM—City Electric Light Plant (city).
 CARPENTERSVILLE—Citizens Lt. Heat & Pwr. Co. (Dundee)
 CARROLLTON—Carrollton Ht., Lt. & Power Co.
 CARTERVILLE—Hope El. Lt. Plant
 CARTHAGE—Carthage El. Lt. & Power Co.
 CASEY—City El. Lt. Plant
 CENTRALIA—Centralia Gas & El. Co.
 CERRO GORDO—U. M. Rader Co.
 CHAMPAIGN—Urbana & Champaign Ry., Gas & Electric Co.
 CHANDLERVILLE—City El. Lt. Plant
 CHARLESTON—Charleston Htg. Co.
 CHATSWORTH—Chatsworth El. Lt. Plant.
 CHENOA—City El. Lt. Plant
 CHESTER—Chester Lt. & Ice Co.
 CHICAGO—Commonwealth Edison Co., 139 Adams
 City El. Lt. Plant
 Lincoln Park Commissioners
 South Park Commissioners
 West Chicago Park Commissioners
 CHICAGO HEIGHTS—North Shore Electric Co.
 CHILLICOTHE—Chillicothe Wtr. Lt. & P. Co.
 CHRISMAN—Light & Wtr. Co.
 CISSNA PARK—Cissna Park Ltg. Co.
 CLAY CITY—City El. Lt. Plant
 CLAYTON—Clayton Village El. Lt. Plant.
 CLINTON—Clinton Gas & El. Co.
 COAL CITY—City El. Lt. Plant (City)
 COLCHESTER—Colchester E. L. & Pr. Co.
 COLFAX—Electric Light Plant.
 COLLINSVILLE—Collinsville El. Lt., Heat & Pwr. Co.
 COLUMBIA—El. Lt. Plant (City)
 CORNELL—Cornell El. Lt. Plant
 COULTERVILLE—El. Lt. & Power Co.
 COWDEN—City El. Lt. Plant
 CUBA—City El. Lt. Plant
 DALLAS CITY—Dallas City Lt. Co.
 DANVILLE—Danville Street Ry. & Light Co.
 DECATUR—Decatur El. Lt. Plant (City)
 Decatur Ry. & Ltg. Co.
 DE KALB—De Kalb-Sycamore Electric Co.
 DELAVAN—Royal Electric Light & Power Co.
 DESPLAINES—North Shore El. Co.
 DIXON—Lee County Ltg. Co.
 DOWNERS GROVE—City El. Lt. & Wtr. Wks
 DUNDEE—Citizens' Light, Heat & Power Co.
 DWIGHT—Dwight Electric Light Plant
 EARLVILLE—Earlvile El. Lt. & Pwr. Co.
 EAST DUBUQUE—City El. Lt. Plant
 EAST ST LOUIS—Citizens' El. Lt. & Pwr. Co.
 EDINBURG—Edinburg Lt., Heat & Pwr. Co.
 EDWARDSVILLE—Madison County Lt. & Pr. Co.
 EFFINGHAM—Effingham El. Lt. & Pwr. Co.
 ELGIN—Aurora, Elgin & Chicago R. R. Co.
 City of Elgin El. Lt. Plant (City)
 Elgin Merchants' Lt. Co.
 ELMHURST—North Shore El. Co.
 ELMWOOD—Elmwood El. Lt. Co.
 EL PASO—El Paso El. Lt. Co.
 EUREKA—Eureka El. Lt. Plant.
 EVANSTON—North Shore El. Co.
 FAIRBURY—Fairbury El. Lt., Ht. & Pr. Co.
 FAIRFIELD—Fairfield El. Lt. Plant (City)
 FARMER CITY—City El. Lt. Plant (City)
 FARMINGTON—Farmington Elec. Light Co.
 FLORA—City El. Lt. Plant (Munic.)
 FORRESTON—Forreston El. Lt. Plant
 FREEBURG—City El. Lt. Plant
 FREEPORT—Freeport Railway Lt. & Pr. Co.
 FULTON—Fulton El. Lt. & Pwr. Co.
 GALENA—Galena El. Lt. & Pwr. Plant
 GALESBURG—Galesburg City El. Lt. Plant
 Galesburg Ry. & Lt. Co. (City)
 GALVA—City El. Lt. Plant (City)
 GARDNER—Anderson, Christian.
 GENESEO—Geneseo Electric Light Co.
 GENEVA—City of Geneva Electric Light & Waterworks
 GENOA—Genoa Electric Light Co.
 GEORGETOWN—Georgetown El. Co.

GIBSON CITY—Gibson El. Lt. & Pwr. Co.
 GILLESPIE—United El. Lt. & Pwr. Co.
 GILMAN—Gilman El. Lt. Plant
 GIRARD—City El. Lt. Plant
 GOLCONDA—Golconda Lt. & Wtr. Co.
 GRAND RIDGE—Grand Ridge El. Lt. Plant
 GRANITE CITY—Madison County Lt. & Pr. Co.
 GRAYS LAKE—F. C. Wilbur Lumber Co.
 GRAYVILLE—Grayville Wtr. Works Co.
 GREENFIELD—Greenfield Electric Light Co.
 GREENUP—City El. Lt. Plant
 GREENVILLE—Greenville El. Lt., H. & P. Co.
 GRIGGSVILLE—Griggsville El. Co.
 HARLEM—Harlem Wtr. Wks. & El. Lt. Plant (City)
 HARRISBURG—Peoples Wtr. & Lt. Co.
 HARVARD—Harvard Lt. & Pwr. Co.
 HARVEY—North Shore Elec. Co.
 HAVANA—Havana Elec. Co.
 HENRY—Henry Electric Lt. & Power Co.
 HERRIN—City Lt. & Pwr. Co.
 HIGHLAND—Town El. Lt. Plant (City)
 HIGHLAND PARK—North Shore El. Co.
 HILLSBORO—Hillshoro Elec. Lt. & Pwr. Co.
 HINSDALE—City El. Lt. Plant (City)
 HOMER—Homer Light & Power Co.
 HOPESTON—Hoopeston Gas & El. Co.
 IPAVA—El. Lt. Plant
 JACKSONVILLE—Jacksonville El. Lt. Plant
 Jacksonville Ry. & Light Co. (City)
 JERSEYVILLE—Jerseyville Illuminating Co.
 JOLIET—Economy Light & Power Co.
 JONESBORO—City El. Lt. Plant (City)
 KANSAS—El. Lt. Plant
 KANKAKEE—Kankakee Electric Light Co.
 KEITHSBURG—Thos. A. Marshall Tel. Co.
 KEWANEE—Kewanee Lt. & Pwr. Co.
 KINMUNDY—City El. Lt. Plant (Munic.)
 KIRKLAND—Kirkland Elec. Light Plant.
 KIRKWOOD—Kirkwood El. Co.
 KNOXVILLE—Knoxville Elec. Light & Power Co.
 LACON—Lacon Electric Light Co. Co.
 LADD—City El. Lt. Plant
 LAFAYETTE—Atherton, J. S.
 LA GRANGE—North Shore El. Co.
 LA HARPE—La Harpe Elec. Lt. & Power Co.
 LAKE FORREST—North Shore El. Co.
 LANARK—Lanark Lighting Plant
 LA SALLE—City Electric Light Plant
 Citizens' Lighting Co.
 LAWRENCEVILLE—Lawrencev'e Wt. & Lt. Co.
 LEBANON—Lebanon City Ltg. Plant (City)
 LEMONT—Lemont Elec. Lt. & Power Co.
 LENA—Lena El. Lt. & Pwr. Co.
 LE ROY—Leroy Elec. Lt., Pwr. & Heat Co.
 LEWISTOWN—Lewistown El. Plant
 LEXINGTON—Lexington Elec. Light Co.
 LIBERTYVILLE—North Shore El. Co.
 LINCOLN—Lincoln Water & Light Co.
 LITCHFIELD—Litchfield Gas & Electric Co.
 LOCKPORT—City El. Lt. Plant (City)
 LODA—Addams, Morgans & Co.
 LOUISVILLE—City Lt. & Wtr. Plant (Munic.)
 LOVINGTON—Lovington El. Lt. & Pwr. Co.
 McHENRY—McHenry Lt., Heat & Pwr. Co.
 McLEANSBORO—City Elec. Light Plant (City)
 MACKINAW—Mackinaw El. Lt. Plant.
 MACOMB—Macomb E. L. & Gas Co.
 MADISON—Granite City-Venice El. Co.
 MANSFIELD—Mansfield El. Co.
 MARENGO—City Light & Water Works (City)
 MARRISSA—City El. Lt. Plant
 MARION—Marion Elec. Lt. & St. Ry. Co.
 MAROA—Maroa Elec. Lt. Co.
 MARSEILLES—Consolidated Wtr. & Lt. Co.
 MARSHALL—Marshall Electric Lt. Plant (City)
 MASCOUHAH—Mascothah El. Lt. Co.
 MASON CITY—Mason City El. Lt. Plant
 MATTOON—Mattoon City Elec. Lt. Plant (City)
 Mattoon Ht. Lt. & Power Co.
 MAYWOOD—North Shore El. Co.
 MEDORA—Medora El. Lt. Plant.
 MELROSE PARK—North Shore El. Co.
 MENDOTA—Mendota Light & Heat Co.
 MEREDOSIA—Meredosia El. Lt. Plant
 METROPOLIS—City Elec. Lt. Plant (City)
 MILFORD—Milford Elec. Lt., Power & Trans.
 MILLSTADT—City El. Lt. Plant (City)
 MINONK—Minonk Electric Light & Power Co.
 MOLINE—People's Power Co.
 MOMENCE—Momence E. L. Co.
 MONMOUTH—Monmouth Gas & El. Co.
 MONTICELLO—Monticello Electric Light Co.
 MORGAN PARK—Village Elec. Lt. Plant (Village)
 MORRIS—United Electric Co.
 MORRISON—Morrison Gas & E. L. Co.
 MORRISONVILLE—Morrisonville El. Co.
 MORTON—Morton Lt., Heat & Pwr. Co.
 MOUND CITY—Mound City Water, Lt., Power, Heat & Mfg. Co.
 MOUNT CARMEL—Mount Carmel Gas & El. Co.
 Mount Carmel Lt. & Wtr. Co.
 MOUNT CARROLL—Mount Carroll Elec. Lt. & Power Co.
 MOUNT MORRIS—Mount Morris El. Lt. & Pwr. Co.

MOUNT OLIVE—Village Elec. Lt. Plant (Village)
 MOUNT PULASKI—Mount Pulaski El. Lt. & Pwr. System
 MOUNT STERLING—Mount Sterling E. L. & Power Co.
 MOUNT VERNON—Citizens' Gas, Electric & Heating Co.
 MOWEAQUA—Moweaqua Elec. Lt. Co.
 MURPHYSBORO—Murphysboro Water, E. & Gaslight Co.
 NAPERVILLE—City El. Lt. & Wtr. Plant
 NASHVILLE—Nashville Electric Light Co.
 NEW ATHENS—New Athens Elec. Lt. Plant
 NEWMAN—Newman El. Lt. Co. (City)
 NEWTON—City El. Lt. Plant (City)
 NILES CENTER—North Shore El. Co.
 NOKOMIS—Nokomis Elec. Lt. & Power Co.
 NORMAL—Bloomington & Normal Ry. El. & Htg. Co.
 NORTH ALTON—Alton Lt. & Tract. Co.
 NORTH CHICAGO—North Shore El. Co.
 NUNDA—Union Lt. & Phone Co.
 OAKLAND—City El. Lt. Plant
 OAK PARK—Chicago Suburban Wtr. & Lt. Co. Cicero Lt., Ht. & Pwr. Co. Oak Park Yarian Co.
 ODELL—Odell El. Co.
 O'FALLON—O'Fallon Elec. P., Heat & Water Co.
 OHIO—El. Lt. Plant.
 OKAWVILLE—Original Hotel El. Lt. Plant
 OLNEY—Olney Electric Light & Power Co.
 ONEIDA—Oneida Lt. & Pwr. Co.
 OREGON—Oregon Elec. Lt. & Power Co.
 OTTAWA—Northern Illinois Trac. Co.
 PALESTINE—City Lt. Plant
 PALMYRA—City El. Lt. Plant
 PANA—Pana Gas & El. Co.
 PARIS—City Electric Light & Wtr. Wks. (City) City Gas & Elec. Co.
 PARK RIDGE—North Shore El. Co. (I. Schis. Paxton—Paxton El. Co. sel. Owner)
 PECATONICA—Pecatonica El. Lt. Plant
 PEKIN—Citizens' Gas & Electric Co.
 PEORIA—Peoria Gas & Electric Co.
 PEOTONE—Peotone El. Lt. Co.
 PERU—Peru City El. Lt. Plant (City)
 PETERSBURG—Petersburg El. Lt. Plant
 PINCKNEYVILLE—Pinckneyville Lt., Ice & Pwr. City—White Bros. Pwr. Co.
 PITTSFIELD—Pittsfield Elec. Light & Power Co.
 PLANO—Plano Ht., Lt. & Power Co. Co
 POLO—Polo El. Lt. Co. (M. Snyder, Owner)
 PONTIAC—Pontiac Light & Water Co.
 POTOMAC—Potomac El. Plant
 PRINCETON—Princeton El. Lt. Plant
 PROPHETSTOWN—City El. Lt. Plant
 QUINCY—Quincy Gas & Electric Co.
 RANTOUL—City Elec. Lt. & Water Wks.
 RAYMOND—Hillshoro Lt. & Pwr. Co.
 RED BUD—Red Bud El. Lt. Plant
 RIDGE FARM—Ridge Farm Electric Light, Heat & Power Co.
 RIDGELY—Springfield El. Lt. & Pwr. Co.
 RIVER FOREST—North Shore El. Co.
 ROANOKE—Roanoke El. Lt. Plant
 ROBINSON—Robinson Water, Light & Heat Co.
 ROCHELLE—City Elec. Lt. Plant (City)
 ROCK FALLS—City Elec. Lt. Plant (City)
 ROCKFORD—Rockford El. Co.
 ROCK ISLAND—People's Power Co.
 ROODHOUSE—Central Lt., Heat & Pwr. Co.
 ROSEVILLE—Roseville Ltg. & Htg. Co.
 ROSSVILLE—Rossville El. Lt. Plant
 RUSHVILLE—Rushville E. L. Co.
 RUTLAND—Rutland El. Lt. Plant
 SALEM—Salem El. Lt. Plant (City)
 ST. ANNE—St. Anne El. Lt. Plant
 ST. CHARLES—City Elec. Light Plant (City)
 ST. ELMO—St. Elmo Lt., Ice & Storage Co.
 SALEM—City El. Lt. Plant
 SANDWICH—City El. Lt. & Wtr. Wks. (City)
 SAVANNA—Peoples Gas & El. Co.
 SAYBROOK—Saybrook El. Lt., Heat & P. Co.
 SHAWNEETOWN—Shawneetown El. Lt. Plant
 SHEFFIELD—Sheffield Elec. Lt. Co.
 SHELBYVILLE—City El. Lt. Plant (City)
 SHELTON—Sheldon El. Lt., Pwr. & Htg. Co.
 SHERRARD—Sherrard El. Lt. Plant (City)
 SIDELL—Sidell El. Lt. & Ice Co.
 SORENTO—Sorento El. Lt. Co.
 SOUTH WILMINGTON—Gardner El. Lt. Plant
 SPARTA—Sparta El. & Gas Co.
 SPRINGFIELD—City El. Lt. Plant Consumers' El. Co. Springfield Lt., Heat & Pwr. Co.
 SPRING VALLEY—Spring Valley Elec. Lt. Co.
 STANTON—City Elec. Lt. Plant (City)
 STERLING—Sterling Gas & Electric Lt. Co.
 STREATOR—Illinois Lt. & Trac. Co.
 STOCKTON—Stockton El. Lt. Co.
 STONINGTON—City El. Lt. Plant
 STRONGHURST—Steele Bros. El. Lt. Plant
 SULLIVAN—Sullivan Elec. Co. Sullivan City Lt. & Wtr. Wks. (City)
 SYCAMORE—DeKalb-Sycamore El. Co.

TABLE GROVE—Table Grove Elec. Lt. Plant
 TAMPICO—El. Lt. Plant (City)
 TAYLORVILLE—Taylorville Gas & Elec. Co.
 TOLEDO—Toledo El. Lt. Plant
 TOLONO—Tolonno Ice, Lt. & Pwr. Co.
 TOLUCA—Toluca El. Lt. & Gas Co.
 TOULON—Toulon Electric Lt. & Power Co.
 TREMONT—El. Lt. & Pwr. Co.
 TRENTON—City El. Lt. Plant (City)
 TROY—Municipal El. Lt. Plant
 TUSCOLA—Tuscola Wtr. & Lt. Co.
 UPPER ALTON—(See Alton)
 URBANA—The Urbana Lt., Ht. & Pwr. Co.
 UTICA—Utica El. Lt. & Power Co.
 VANDALIA—Vandalia El. Lt. Plant
 VENICE—Granite City-Venice El. Co.
 VERMONT—Village El. Lt. Plant (City)
 VIRDEN—Virden El. Lt. Co.
 VIRGINIA—Virginia Elec. Light Co.
 WALNUT—Walnut El. Lt. Plant
 WARSAW—Warsaw El. Plant
 WASHBURN—Consolidated El. & Mfg. Co.
 WASHINGTON—Eagle Electric Wks.
 WATERLOO—City Water, & Lt. Plant
 WATSEKA—Watska El. Lt. & Heating Co.
 WAUKEGAN—North Shore El. Co. (See Evanston)
 WAVERLY—Waverly Elec. Lt. & Power Co.
 WENONA—Wenona Light & Power Co.
 WEST CHICAGO—Dempsey Andrew
 WESTERN SPRINGS—City El. Lt. & Wtr. Wks.
 WESTVILLE—Danville St. Ry. & Lt. Co.
 WHEATON—El. Lt. Plant (City)
 WHITE HALL—White Hall Electric Co.
 WILMETTE—North Shore El. Co. (See Evanston)
 WILMINGTON—Wilmington Lt. & Pwr. Co.
 WINNETAKA—Village El. Lt. Plant (City)
 WINCHESTER—Winchester Elec. Light Co.
 WITT—C. C. El. Lt. & Pwr. Co.
 WOODHULL—Woodhull Electric Light Co.
 WOODSTOCK—City Electric Light Plant
 WYANET—Wyandot El. Lt. Co.
 WYOMING—City El. Lt. & Pwr. Plant
 XENIA—Xenia El. Lt. Co.
 ZION CITY—Zion El. & Pwr. Dept.

INDIANA

ALBANY—Albany Water & Lt. Co.
 ALBION—City Wtr. & Lt. Co.
 ALEXANDRIA—Central Indiana Lighting Co.
 ANDERSON—City Elec. Lt. & Pwr. Plant
 ANGOLA—Angola Ry. & Pwr. Co. (Munic.)
 ARCADIA—Arcadia El. Lt. Plant
 ARGOS—City El. Plant (City)
 ASHLEY—Ashley El. Lt. Plant (City)
 ATTICA—City El. Lt. & Wtr. Plant (City)
 AUBURN—Auburn Water & Elec. Lt. Plant
 AURORA—Indiana Public Service Co. (City)
 BATESVILLE—American Furniture Co.
 BEDFORD—Bedford Heat, Lt. & Pwr. Co.
 BERNE—Berne El. Lt. Co.
 BLOOMFIELD—Home Lt. & Wtr. Co.
 BLOOMINGTON—People's Gas, Electric & Heating Co.
 BLUFFTON—City El. Lt. & Pwr. Plant (City)
 BOONVILLE—Boonville Elec. Lt. & Pwr. Co.
 BOSWELL—Boswell El. Lt. & Wtr. Wks. Co.
 BOURBON—Union Wtr., Lt. & Pwr. Co.
 BRAZIL—Brazil El. Co.
 Terre Haute Trac. & Lt. Co.
 BREMEN—Bremen Elec. Lt. Plant (City)
 BROOKVILLE—Brookville Electric Co.
 BROWNSTOWN—City Wtr. & Lt. Plant
 BUTLER—Butler El. Lt. & Wtr. Wks. (City)
 CAMBRIDGE CITY—City El. Lt. Plant (City)
 CANNELTON—Cannelton El. Lt., Heat & Power Plant
 CARTHAGE—Lt. Heat & Power Co.
 CAYUGA—Cayuga El. Co.
 CHARLESTOWN—Louisville & Northern Ry.
 CHRISNEY—Chrisney El. Lt. Co. & Lt. Co.
 CHURUBUSCO—City Elec. Lt. Plant
 CICERO—El. Lt. Plant
 CLAY CITY—Clay City Elec. Lt. & Pwr. Co.
 CLINTON—Clinton Elec. Lt. & Power Co.
 COLUMBIA CITY—City El. Lt. Plant (City)
 COLUMBUS—City Electric Light Plant (City) Central Indiana Lighting Co. Columbus St. Ry. & Lt. Co.
 CONNERSVILLE—Connorsville Lt., Ht. & Pwr. Co.
 CONVERSE—Converse Elec. Co. Co.
 CORYDON—Corydon Lt., Wtr. & Ice Co.
 COVINGTON—Covington Lt. & Wtr. Co.
 CRAWFORDSVILLE—Crawfordsville E. Lt. & Pwr. Co. (City)
 CROWN POINT—Crown Point Elec. Co.
 DANVILLE—Danville Elec. Light Co.
 DECATUR—Decatur City Lt. Plant (City)
 DELPHI—Carroll Electric Light & Power Co.
 DUNKIRK—Dunkirk Ltg. Co.
 EAST CHICAGO—Indiana Harbor & East Chicago El. Co.
 EDINBURG—Edinburg El. Lt. & Wtr. Plant (City)
 ELKHART—Indiana & Michigan El. Co.

ELWOOD—Elwood Electric Light Co.
 ENGLISH—English Milling Co.
 EVANSVILLE—Evansville Gas & Elec. Lt. Co.
 FAIRMOUNT—Central Indiana Lighting Co.
 FERDINAND—Ferdinand El. Lt. Co.
 FORT WAYNE—Fort Wayne & Wabash Valley Trac. Co. Fort Wayne Co.
 S. F. Bowser & Co. (Inc.)
 FOWLER—Fowler Utilities Co.
 FRANKFORD—City Lt. & Pwr. Plant (City)
 FRANKLIN—Franklin Wtr., Lt. & Pwr. Co.
 FRANKTON—Frankton Wtr. & Lt. Co. (Munic.)
 GARRETT—Garrett Lt. & Wtr. Dept. (City)
 GAS CITY—Gas City El. Lt. Plant (City)
 GOODLAND—Town Elec. Lt. Plant (City)
 GOSHEN—City Electric Light Plant (City) Hawks Elec. Co., The
 GOSPORT—Gosport Elec. Lt. Co.
 GREENCASTLE—Putnam Elec. Lt. Co.
 GREENFIELD—City El. Lt. Plant (City)
 GREENSBURG—Greensburg Gas & Elec. Co.
 GREENTOWN—Kokomo, Marion & Western Trac. Co.
 GREENWOOD—Citizens Wtr. & Lt. Co.
 HAGERSTOWN—City El. Lt. Plant
 HAMMOND—City Elec. Lt. Plant (City) South Shore Gas & El. Co.
 HARTFORD CITY—Hartford City Lighting Co.
 HOBART—Hobart El. Lt. Plant (City)
 HOPE—Light, Heat & Pwr. Plant
 HUNTINGBURG—Messner Bros. Co.
 HUNTINGTON—City El. Lt. Plant (City) Huntington Light & Fuel Co.
 INDIANAPOLIS—City El. Lt. Plant Indianapolis Lt. & Ht. Co. Merchants' Heat & Light Co., 25 S. Penn. People's Lt. & Heat Co.
 JASPER—Jasper Elec. Lt. Plant (City)
 JEFFERSONVILLE—United Gas & Electric Co.
 JONESBORO—Jonesboro Lt. & Wtr. Co.
 KENDALLVILLE—City El. Lt. Plant
 KENTLAND—Kentland El. Lt. & Pwr. Co.
 KNIGHTSTOWN—Knightstown Wtr. & Lt. Plant (City)
 KNOX—Knox El. Lt. & Pwr. Co.
 KOKOMO—Kokomo, Marion & Western Tr. Co.
 LADOGA—Epperson, W. F. Circle Heating & LAFAYETTE—Lafayette Gas Co. Light Co. Merchants' Elec. Lt. Ass'n
 LA GRANGE—La Grange Elec. Lt. Co.
 LA PORTE—La Porte Electric Co.
 LAWRENCEBURG—Lawrenceburg El. Lt. Co.
 LEBANON—Citizens' Elec. Light & Ice Co.
 LIGONIER—Ligonier Elec. Lt. Co.
 LINTON—City Ltg. Co. (City)
 LOGANSPOUT—City Elec. Lt. Plant (City)
 LOWELL—City El. Lt. Plant
 MADISON—Madison Lt. & Ry. Co. Madison Lt. & Rwy. Co.
 MARION—City El. Lt. Plant Marion, Bluffton & Eastern Trac. Co. Marion Lt. & Heat Co.
 MARTINSVILLE—City El. Lt. Plant (City) Martinsville Lt., Ht., Pwr. & Wtr. Co.
 MENTONE—El. Lt. Plant
 MICHIGAN CITY—Michigan City Gas & El. Co.
 MIDDLETOWN—Welsh El. Lt. Plant Co.
 MILFORD—Syracuse Pwr., Lt. & Mfg. Co.
 MISHAWAKA—City Wtr. & El. Plant
 MITCHELL—Municipal Elec. Lt. Plant
 MONTICELLO—Monticello El. Lt. Plant
 MONTEPELIER—Montpelier Lt. & Wtr. Co.
 MOORESVILLE—Mooreville Pub. Service Co.
 MORGANTOWN—Morgantown El. Lt. Co.
 MOROCCO—Morocco El. Lt. Plant
 MOUNT VERNON—Mt. Vernon El. Lt. & Pwr. Co.
 MUNCIE—City El. Lt. Plant Co.
 NAPPANEE—City Elec. Lt. Plant (City)
 NEW ALBANY—United Gas & Electric Co.
 NEWBURG—Newburg El. Lt. & Pwr. Co.
 NEW CASTLE—City Elec. Lt. Plant (City) New Castle Lt., Ht. & Pwr. Co.
 NEW HARMONY—New Harmony El. Lt. Plant
 NEW HAVEN—City El. Lt. Plant (City)
 NOBLESVILLE—Noblesville Ht., Lt. & Pwr. Co. Noblesville Hydraulic Co.
 NORTH MANCHESTER—Browne Mills Elec. Co.
 NORTH VERNON—City Elec. Lt. & Wtr. Plant (Munic.)
 OAKLAND CITY—Oakland City Elec. Lt. & Odon—Odon Lt. & Power Co. Power Co.
 OSGOOD—Osgood El. Lt. Plant (Munic.)
 OXFORD—City Elec. Lt. Plant (City)
 PAOLI—City El. Lt. Plant
 PERU—Peru City Lighting Plant
 PETERSBURG—Petersburg El. Lt. & Power Co.
 PIERCETON—Piercetown El. Lt. & Wtr. Co.
 PLAINFIELD—Plainfield El. Lt. Co.
 PLYMOUTH—Plymouth Elec. Lt. Co.
 PORTLAND—City El. Lt. Plant (City)
 PRINCETON—Princeton Lt. & Power Co.
 RENSSAELER—City Elec. Lt. Plant (City)
 RICHMOND—Richmond Lt., Ht. & Pwr. Co. Richmond City El., Lt. & Pwr. Plant (City)
 RIDGEVILLE—City El. Lt., Heat & Pwr. Co.
 ROACHDALE—Roachdale Elec. Lt. & Power Co.
 ROCHESTER—Rochester El., Ht. & Pwr. Co.
 ROCKPORT—Rockport Water Works Co.

ROCKVILLE—Rockville El. Lt. Wks. (City)
 RUSHVILLE—City Water & Light Plant
 SALEM—Salem B. L. & Artificial Ice Co.
 SEYMOUR—Seymour Gas & Elec. Light Co.
 SHELBYVILLE—Citizens' Wtr. & Lt. Co. (City)
 SHERIDAN—City Elec. Light Plant
 SOUTH BEND—Indiana & Michigan El. Co.
 SOUTH WHITELY—South Whitely El. Co.
 SPENCER—Spencer Elec. Light Co.
 SULLIVAN—Sullivan Heat, Light & Power Co.
 Sullivan Lt. Co.
 SWAYZEE—Kokomo, Marion & Western Trac.
 Co.
 SYRACUSE—Syracuse Pwr., Lt. & Mfg. Co.
 SUMMITVILLE—Summitville Electric Light &
 TELL CITY—Tell City Electric Light Co.
 TERRE HAUTE—Terre Haute, Indiana &
 Eastern Trac. Co.
 THORNTOWN—Thorntown Elec. Light Plant
 TIPTON—Tipton El. Lt. Plant (City)
 UNION CITY—Union City Lighting Co.
 VALPARAISO—Valparaiso Light Co.
 VAN BUREN—Marion, Bluffton & Eastern
 Trac. Co.
 VEEDERSBURG—City Water & Light Plant
 (Municipal)
 VEVAY—City Electric Light Plant (City)
 VINCENNES—City Electric Light Co.
 Vincennes Electric Light & Power Co.
 WABASH—Wabash Water & Light Co.
 WALKERTON—City El. Lt. Plant
 WARREN—Warren Elec. Lt. & Water Plant
 (City)
 WARSAW—Winona El. Lt. & Wtr. Co.
 WASHINGTON—Washington Light & Wtr. Co.
 WATERLOO—Waterloo Wtr. & Lt. Co.
 WAYNETOWN—Waynetown Electric Co.
 WHITING—South Shore Gas & Elec. Co.
 WILLIAMSPORT—Williamsport Water & Light
 Plant (City)
 WINAMAC—Winamac Lt. & Wtr. Plant (City)
 WINCHESTER—Citizens' Water & Light Co.
 WOLCOTT—Wolcott El. Lt. Co.
 WORTHINGTON—Indiana Water & Light Co.
 ZIONSVILLE—Zionsville Wtr. & El. Lt. Co.

INDIAN TERRITORY.

(See Oklahoma)

IOWA.

ACKLEY—Town El. Lt. Plant
 ADEL—Adel Mill Co.
 AFTON—City Elec. Lt. Plant (J. J. Baxter,
 Lessee)
 ALBIA—Albia Elec. Lt. & Power Co.
 ALGONA—Algona Elec. Lt. & Wtr. Dept.
 ALTA—City El. Lt. Plant (City)
 AMES—City El. Lt. Plant (City)
 ANAMOSA—Anamosa El. Lt. & Pwr. Co.
 ATLANTIC—Atlantic Elec. Lt. Co.
 AUDUBON—Audubon Elec. Lt. Plant
 AVOCA—Avoca Elec. Lt. & Power Co.
 BEDFORD—Bedford Lt., Ht. & Power Co.
 BELLE PLAINE—Belle Plaine Elec. Light Co.
 BELLEVUE—City Elec. Lt. Plant (City)
 BELMONT—Belmont Light & Fuel Co.
 BLOOMFIELD—City Elec. Lt. & Power Plant
 ROONE—Boone Electric Co. (City)
 BRITT—Britt Light & Power Co.
 BUFFALO CENTER—Buffalo Center Elec. Lt.
 Plant
 BURLINGTON—People's Gas & Elec. Co.
 CARROLL—Carroll Lt. & Heat Co.
 CARSON—Carson El. Lt. Plant
 CASCADE—Cascade Elec. Light & Power Co.
 CEDAR FALLS—Citizens' Gas & El. Co.
 CEDAR RAPIDS—Cedar Rapids & Iowa City
 Ry. & Lt. Co.
 CENTERVILLE—Centerville Lt. & Traction Co.
 CHARITON—City Elec. Light Plant (City)
 CHARLES CITY—Charles City El. Lt. &
 CHEROKEE—Cherokee El. Lt. Co. Ht. Co.
 CLARINDA—Lee El. Lt. Co.
 CLARION—City Elec. Light Plant (City)
 CLARKSVILLE—Clarksville Lt., H. & P. Co.
 CLEAR LAKE—Clear Lake Elec. Lt. & P. Co.
 CLINTON—Clinton Gas Light & Coke Co.
 COLFAX—Colfax Elec. Lt. & P. Plant (City)
 COON RAPIDS—Coon Rapids Tel. & El. Co.
 CORNING—Corning Elec. Lt., Ht. & Pwr. Co.
 CORRECTIONVILLE—Sioux Valley Milling Co.
 CORYDON—City Elec. Lt. Plant (Municipal)
 COUNCIL BLUFFS—Citizens' Gas & Electric
 CRESCO—Cresco Lt., Ht. & Pwr. Co. Co.
 CRESTON—Creston Mutual El. Lt., Heat &
 DAVENPORT—People's Lt. Co. Pwr. Co.
 DECORAH—Upper Iowa Pwr. Co.
 DENISON—Denison Elec. Lt. & Pwr. Co.
 DES MOINES—Des Moines Edison Light Co.
 DE WITT—De Witt Elec. Lt. & P. Co.
 DUBUQUE—Union Elec. Co.
 DYERSVILLE—Dyersville Light & Water Co.
 EAGLE GROVE—Citizens' Lt., Ht. & Pwr. Co.
 EDDYVILLE—Eddyville Elec. Lt. Co.

ELDON—Eldon Elec. Lt. & Power Plant (City)
 ELDORA—Eldora Elec. Light Co.
 ELKADER—Schmidt Bros. & Co.
 ELMA—Elma El. Lt. Plant
 EMMETTSBURG—City Elec. Light & Power Co.
 ESTHERVILLE—City Elec. Lt. Plant (City)
 FAIRFIELD—City Elec. Lt. Plant (City)
 FARMINGTON—City Elec. Lt. Plant (City)
 FAYETTE—City Lt. & Wtr. Wks
 FOREST CITY—Forest City El. Lt. & P. Co.
 FORT DODGE—Fort Dodge Elec. Lt. & P. Co.
 FORT MADISON—Fort Madison El. Lt. Co.
 GARNER—Enterprise El. Lt., Ht. & P. Co.
 GLENWOOD—Glenwood Elec. Lt. & Pwr. Co.
 GRAND JUNCTION—Grand Junction Elec. Lt.
 Plant
 GREENE—Greene Elec. Lt., & Power Co.
 GREENFIELD—City Elec. Light Plant (City)
 GRINNELL—Grinnell Elec. & Ht. Co.
 GRUNDY CENTER—Grundy Center El. Lt. Co.
 GUTHRIE CENTER—Guthrie Center Elec. Lt.
 Co.
 GUTTENBERG—Home Elec. Co. Co.
 HAMBURG—Hamburg Elec. Light Co.
 HAMPTON—Hampton Elec. Lt. & Power Co.
 HARLAN—City Elec. Lt. Plant (City)
 HAWARDEN—Hawarden Lt. & W. W. (City)
 HOPKINTON—City El. Lt. Plant
 HUMBOLDT—Humboldt Elec. Light & Power
 Co.
 IDA GROVE—Ida Grove Elec. Co. Co.
 INDEPENDENCE—Independence Water & Elec-
 tric Light Plant (City)
 INDIANOLA—City Ltg. Plant
 IOWA CITY—Iowa City Elec. Light Co.
 IOWA FALLS—Petersen Ht., Lt. & P. Co.
 JEFFERSON—Jefferson Light, Heat, Power &
 Water Co.
 KEOKUK—Keokuk Elec. Ry. & Power Co.
 KEOSAUQUA—City El. Lt. Plant
 KEOTO—City El. Lt. Plant
 KNOXVILLE—Knoxville Electric Co.
 LAKE CITY—Lake City Electric Co.
 LAKE MILLS—El. Lt. Plant
 LANSING—Lansing Elec. Lt. Co.
 LA PLATA—Moulton El. Lt. Co.
 LAPORTE CITY—LaPorte Public Utility Co.
 LE MARS—Le Mars City Water & Light Co.
 LEON—Leon Elec. Light, Heat & Power Co.
 LISBON—City Electric Light Plant (City)
 LOGAN—Logan Electric Light Co.
 LYONS—City El. Lt. Plant
 MCGREGOR—McGregor Elec. Lt. & Lumber Co.
 MADRID—Madrid El. Lt. & Pwr. Co.
 MALVERN—Malvern Light & Power Co.
 MANCHESTER—Hoag, E. W.
 Manchester Lt., Ht. & Pwr. Co.
 MANNING—Manning Electric Light Co.
 MANSON—Manson Elec. Lt. Co.
 MAQUOKETA—Barnes Elec. Lt. & Power Co.
 MARENGO—Marengo Elec. Light & Power Co.
 MARION—Marion Lt., Heat & Pwr. Co.
 MARSHALLTOWN—City Elec. Lt. Plant.
 Marshalltown Lt., Power & Ry. Co.
 MASON CITY—People's Gas & El. Co.
 MISSOURI VALLEY—Missouri Valley Electric
 Light Co.
 MONTEZUMA—Montezuma Elec. Light & Pwr.
 MONTICELLO—Monticello Electric Co. Co.
 MOULTON—Moulton El. Lt. Co.
 MOUNT PLEASANT—City El. Lt. Plant (City)
 MOUNT VERNON—Mt., Vernon Elec. Lt. Co.
 MUSCATINE—Citizens' Ry. & Light Co.
 NASHUA—Nashua El. Lt. Co.
 NEOLA—Neola El. Lt. Plant
 NEVADA—Nevada Electric Co.
 NEW HAMPTON—City El. Lt. Plant (City)
 NEW LONDON—New London El. Lt. Plant
 NEW SHARON—New Sharon Elec. Co. (City)
 NEWTON—City El. Lt. Plant
 NORA SPRINGS—Electric Light & Mill Co.
 NORTHWOOD—Northwood El. Lt. & Pwr. Co.
 OELWEIN—Oelwein Lt. Heat & Pwr. Co.
 OGDEN—City El. Lt. Plant
 ONAWA—Onawa & El. Light Plant (City)
 ORANGE CITY—Orange City Elec. Lt. Co.
 OSAGE—Osage Elec. Lt., Heat & Pwr. Co.
 OSCEOLA—Osceola Elec. Light, Ht. & Pwr. Co.
 OSKAHOOSA—Oskaloosa Trac. & Lt. Co.
 OTTUMWA—Ottumwa Ry. & Lt. Co.
 PANORA—Panora Elec. Lt. & Pwr. Co.
 PARKERSBURG—Parkersburg Electric Light,
 Heat & Power Co.
 PELLA—Pella El. Lt. & Pwr. Co.
 PERRY—Perry Elec. Lt., P. & Heat'g Co.
 RED OAK—Red Oak Electric Co.
 REINBECK—Reinbeck El. Lt. Plant
 RICEVILLE—Riceville El. Lt. & Pwr. Co.
 ROCKFORD—Rockford El. Lt. Co.
 ROCK RAPIDS—Rock Rapids Elec. Lt. Plant
 (City)
 ROCKWELL CITY—Moore El. Lt. & Pwr.
 Plant
 SAC CITY—Sac City Elec. Co.
 SANBORN—Sanborn Electric Light Co.
 SEYMOUR—Town El. Lt. Plant (City)
 SHELTON—Sheldon El. Station
 SHENANDOAH—The Artificial Ice, Pwr., Ht.
 & Lt. Co.

SIDNEY—Sidney Lt., Heat & Pwr. Co.
 SIGOURNEY—Sigourney Elec. Lt. & Pwr. Co.
 SIOUX CITY—Hawkeye Elec. Co.
 Sioux City Gas & Elec. Co.
 Sioux City Service Co.
 SIOUX RAPIDS—Sioux Rapids Elec. Lt. Plant
 (City)
 SPENCER—Spencer Light & Water Works
 SPIRIT LAKE—Spirit Lake Lt. & Pwr. Plant
 STATE CENTER—City El. Lt. Plant (City)
 STORM LAKE—Storm Lake E. L. & Pwr. Co.
 STORY CITY—Story City Electric Light &
 STUART—City El. Lt. Plant Pwr. Co.
 TAMA—Tama & Toledo El. Ry. & Lt. Co.
 TIPTON—Tipton Light & Heating Co.
 TOLEDO—Tama & Toledo Elec. Ry. & Lt. Co.
 TRAER—Traer Elec. Co. (F. L. White, Owner)
 VALLEY JUNCTION—The New Valley Water &
 Lt. Co.
 VILLISCA—Villisca Lt., Pwr. & Fuel Co.
 VINTON—City El. Lt. & Pwr. Plant
 WAPELLO—Wapello Elec. Lt. & Pwr. Co.
 WASHINGTON—Iowa Gas & El. Co.
 Washington City Wtr. & Lt. Plant (City)
 WATERLOO—Citizens' Gas & El. Lt. Co. of
 Waterloo & Cedar Falls, Ia.
 City El. Light Plant (City)
 WAUKON—Waukon Elec. Lt. Co.
 WAVERLY—City El. Lt. Plant
 WEBSTER CITY—Webster City El. Lt. Plant
 WEST BRANCH—West Branch Elec. Light Co.
 WEST BURLINGTON—Peoples Gas & El. Co.
 WEST LIBERTY—City El. Lt. Plant
 WEST UNION—Neff Bros.
 WHAT CHEER—What Cheer E. L. & Pwr. Co.
 WILTON JUNCTION—City El. Lt. & Wtr. Plant
 (City)
 WINTERSET—Town El. Lt. Plant (City)
 WYOMING—Zinn El. Lt. & Pwr. Co., Oxford
 Mills, Ia.

KANSAS.

ABILENE—Riverside Lt. & Pwr. Co.
 ALMA—Alma Lt. & Ice Co.
 ANTHONY—Anthony El. Lt., Pwr. & Fuel Co.
 ARGENTINE—The Standard El. Light Co.
 ARKANSAS CITY—Arkansas City Gas & Elec-
 tric Co.
 ATCHISON—Atchison Ry., Lt. & Pwr. Co.
 BALDWIN—City Lt. & Pwr. Plant
 BAXTER SPRINGS—The Baxter Springs El. Co.
 BELLEVILLE—City El. Lt. Plant
 BELOIT—Beloit Light & Water Co.
 BLUE RAPIDS—El. Plaster Co. (The)
 BURLINGAME—City El. Lt. Plant (City)
 BURLINGTON—Burlington Elec. Lt. & Pwr. Co.
 CALDWELL—City El. Lt. & Pwr. Plant
 CANEY—CANEY El. Lt. & Pwr. Co.
 CIANUTE—Chanute El. Light Plant (City)
 Southern Kansas Ry., Lt. & Pwr. Co.
 CHEROKEE—Cherokee Mill & Elev. Co.
 CHERRYVALE—Cherryvale El. Lt. & Pwr. Co.
 CHETOPA—City El. Lt. & Wtr. Wks (City)
 CLAY CENTER—City Lt. & Wtr. Plant
 Clay Center Lt. & Pwr. Co.
 COFFEYVILLE—City El. Lt. & Pwr. Plant
 COLUMBUS—Columbus Elec. Co.
 CONCORDIA—Concordia Elec. Lt. Co.
 COUNCIL GROVE—The Council Grove El. Lt.
 & Pwr. Co.
 DODGE CITY—Midland Wtr., Lt. & Ice Co.
 DOWNS—Downs El. Lt. & Pwr. Co.
 ELDORADO—Eldorado Elec. & Refrigerator Co.
 ELLSWORTH—The Peo. El. Lt. & Pwr. Plant.
 EMPIRE CITY—Galena Lt. & Power Co.
 EMPORIA—Emporia El. Lt. & Pwr. Wks
 ENTERPRISE—Enterprise El. Plant (City)
 EUREKA—Eureka El. Lt. Plant.
 FORT SCOTT—Fort Scott Gas & El. Co.
 GALENA—Consolidated Lt., Pwr. & Ice Co.
 GARDEN CITY—Garden City Tel., Lt. & Mfg.
 Co.
 GARNETT—Garnett El. Lt. Co.
 GIRARD—City El. Lt. & Wtr. Works (City)
 GOODLAND—Goodland Lt. & Pwr. Co.
 GREAT BEND—The Great Bend Elec. Co.
 HANOVER—City El. Lt. Plant
 HARPER—City El. Lt. Plant (City)
 HAYS CITY—Hays City El. Lt. & Pwr. Co.
 HERINGTON—City Wtr. & Lt. Plant
 HIAWATHA—City El. Lt. Plant (City)
 Hiawatha E. L. Co.
 HOISINGTON—Hoisington El. & Ice Plant
 HOLT—City El. Lt. & Wtr. Wks
 HORTON—Horton Water & Lt. Co.
 HUTCHINSON—People's Water, Light & Power
 Co. of Hutchinson
 The Water, Light, Gas & Power Co.
 INDEPENDENCE—Independence El. Co. (The)
 IOLA—City Wtr., Gas, Lt. & Pwr. Wks
 Iola El. Ry. Co.
 JUNCTION CITY—Elec. Ry. Lt. & Ice Co.
 KANSAS CITY—Kansas City El. Co.
 KINGMAN—The Kingman Lt. & Pwr. Co.
 KINSLEY—Kinsley Light & Power Co.
 LARNED—C. W. Smith El. Lt. & Ice Co.
 LAWRENCE—Lawrence El. Lt. Co.

LEAVENWORTH—Leavenworth Lt. & Heating Co.
 LINDSBORG—Lindsborg Wtr. & El. Lt. Plant (City)
 LYNDON—City El. Lt. Plant
 LYONS—Lyons El. & Mfg. Co.
 McPHERSON—McPherson Wtr. & Elec. Wks.
 MANHATTAN—Manhattan Ice, Lt. & Pwr. Co.
 MARYSVILLE—Marysville Lt., Pwr. & Wtr.
 MINNEAPOLIS—Jackman Roller Mills Co.
 NEWTON—El. Lt. & Pwr. Co.
 NORTON—Norton Lt., Ice & Cold Storage Co.
 NORTONVILLE—Nortonville El. Lt., Pwr. & Oberlin—City Lt. Plant Heating Plant
 OLATHE—Olathe El. Lt. Plant
 OSAGE CITY—Osage City Elec. Light Plant (City)
 OSAWATOMIE—Oswatomie Lt. & Pwr. Co.
 OSBORNE—Osborne Lt. & Pwr. Co.
 OSKALOOSA—Oskaloosa El. Lt. Co.
 OSWEGO—Oswego El. Lt. Co.
 OTTAWA—Ottawa Water Works & Light Co.
 PARSONS—Parsons Elec. Light & Power Co.
 PEABODY—Peabody Lt. & Pwr. Co.
 PHILLIPSBURG—Phillipsburg Mill & Elevator Co.

PITTSBURG—The Home Lt., Heat. & P. Co.
 PRATT—Pratt Lt. & Ice Co.
 SABBETHA—City Elec. Light Plant (City)
 SALINA—People's Light, Ht. & Pwr. Co.
 SENECA—City El. Lt. Plant
 SMITH CENTER—Smith Center Mill, Elevator & Lt. Co.
 STAFFORD—Larabee Flour Mills Co.
 STERLING—Morris Elec. Works.
 STRONG—Smith, W. G. Lt. & Pwr. Co.
 TOPEKA—City of Topeka El. Lt. Plant Edison Co., 734 Kansas av. (Munic.)
 VALLEY FALLS—Zimmerman Lt. & Pwr. Co.
 WAMEGO—City Wtr. & Lt. Plant (City)
 WAVERLY—City Lt. & Wtr. Wks.
 WEIR CITY—Weir City Lt. & Wtr. Co.
 WELLINGTON—City El. Lt. Plant (City)
 WICHITA—Wichita Gas, Elec. Lt. & Pwr. Co. Wichita R. R. & Lt. Co., 107 S. Main
 WILSON—Wilson El. Lt. Co.
 WINFIELD—Municipal Light & Power Plant

KENTUCKY.

ASHLAND—Ohio Valley El. Ry. Co.
 AUGUSTA—Augusta El. Lt. Plant (City)
 BARBOURSVILLE—Barboursville El. Lt., Ht. & Pwr. Co.
 BARDSTOWN—City El. Lt. Plant (City)
 BEAVER-LAM—Kentucky Lt. & Pwr. Co.
 BELLEVUE—Cincinnati, Newport & Covington Lt. & Trac. Co.
 BOWLING GREEN—Bowling Green Gas Lt. Co. City El. Lt. Plant (Munic.)
 BURNSIDE—Burnside Elec. Lt. & Power Co.
 CAMPBELLSVILLE—Campbellsville El. Lt. Co.
 CARLISLE—Carlisle Elec. Lt. & Pwr. Co.
 CARROLLTON—City El. Lt. Plant
 CATLETTSBURG—Carpenter, E. L. & Power Co.
 CENTRAL CITY—Central City Lt. & Pwr. Co.
 CLINTON—Clinton Wtr. & Lt. Co.
 CORBIN—The Horne Elec. Lt. Co.
 COVINGTON—Cincinnati, Newport & Covington Lt. & Trac. Co.
 CYNTHIANA—Cynthiana Elec. Lt. Co.
 DANVILLE—Danville Lt., Pwr. & Trac. Co.
 DAWSON SPRINGS—Dawson El. Lt. Plant
 DAYTON—Cincinnati, Newport & Covington Lt. & Trac. Co. (See Covington)
 EARLINGTON—St. Bernard Mining Co.
 ELIZABETHTOWN—Elizabethtown Elec. Lt. Co.
 EMINENCE—Eminence El. Lt. Co.
 FLEMINGSBURG—El. Lt. Plant
 FRANKFORT—Capital Gas & E. L. Co.
 FRANKLIN—Franklin Electric Co.
 FULTON—Fulton Elec. Lt. & Power Co.
 GEORGETOWN—Georgetown Water, Gas, Electric & Power Co.
 GLASGOW—Glasgow Elec. Light & Power Co.
 GREENVILLE—Greenville Lt. & Wtr. Co.
 HARRODSBURG—Harrodsburg Electric Light Plant (City)
 HAWESVILLE—Hawesville Electric Light, Heat & Power Co.
 HENDERSON—City Elec. Light Plant (City)
 HICKMAN—Hickman Ice & Coal Co.
 HOPKINSVILLE—City Light Co. (Inc.)
 LANCASTER—Lancaster Electric Plant.
 LATONIA—Cincinnati, Newport & Covington Lt. & Trac. Co.
 LAWRENCEBURG—Lawrenceburg El. Lt. & Ice Co.
 LEBANON—Lebanon Lt., Ice & Pwr. Co.
 LEXINGTON—Lexington & Interurban Rys. Co.
 LONDON—London El. Lt. & Pwr. Co.
 LOUISVILLE—Fetter, G. E. Lighting & Heating Co. Louisville Lighting Co.
 LUDLOW—Cincinnati, Newport & Covington Lt. & Trac. Co. (See Covington)
 MADISONVILLE—City El. Lt. Plant

MARION—Marion Elec. Light & Ice Co.
 MAYFIELD—Mayfield Wtr. & Lt. Co.
 MAYSVILLE—Maysville Gas Co.
 MIDDLESBORO—Middlesboro Electric Light, Heat & Power Co.
 MORGANFIELD—Morganfield El. Lt. & P. Co.
 MOUNT STERLING—Mount Sterling Water, Lt. & Pwr. Co.
 MURRAY—City El. Lt. Plant
 NEWPORT—Cincinnati, Newport & Covington Lt. & Trac. Co. (See Covington)
 NICHOLASVILLE—City El. Lt. Plant (City)
 OWENSBORO—Owensboro City El. Lt. Plant (City)
 PADUCAH—City Elec. Light Plant (City) Paducah Trac. & Lt. Co.
 PARIS—Paris Elec. Light Co.
 PINEVILLE—Pineville El. Lt., Pwr. & Ice Co.
 PRINCETON—Princeton Light & Power Co.
 PROVIDENCE—Providence El. Lt. Plant.
 RICHMOND—Richmond El. & Pwr. Co.
 RUSSELVILLE—Russellville El. Lt. Plant (City).
 SEBREE—El. Lt. Plant
 SHELBYVILLE—Shelbyville Water & Lt. Co.
 SOMERSET—Somerset Wtr., Lt. & Trac. Co.
 SPRINGFIELD—Springfield Wtr. & El. Co.
 STANFORD—Stanford Water, Lt. & Ice Co.
 STURGIS—Sturgis El. Lt. Co.
 UNIONTOWN—Uniontown Lt. & Pwr. Co.
 VANCEBURG—Vanceburg Elec. Light, Heat & Power Co.
 VERSAILLES—Versailles Elec. Light Co.
 WICKLIFFE—City Wtr. & Lt. Plant
 WILLIAMSBURG—Williamsburg Elec. Lt. Co.
 WINCHESTER—Winchester Ry., Lt. & Ice Co.

LOUISIANA.

ABBEVILLE—Abbeville Lt. & Wtr. Co.
 ALEXANDRIA—City El. Lt. & Wtr. Wks
 ALGIERS—Algiers Ry. & Lighting Co.
 AMITE—Central Lt. & Pwr. Co.
 ARCADIA—Arcadia Lt. & Pwr. Co.
 BATON ROUGE—Baton Rouge Elec. & Gas Co.
 CLINTON—Clinton El. Lt. & Ice Plant
 COVINGTON—St. Tammany Ice & Mfg. Co. (Ltd.)
 CROWLEY—Crowley Water Works & El. Light Plant (City)
 DONALDSONVILLE—City El. Lt., Pwr. & Wtr. Wks
 FRANKLIN—City Elec. Light Plant (City)
 GREYNA—Jefferson Ice & Elec. Power Co.
 HAMMOND—Hammond Ice, Lt. & Bottling Co. (Ltd.)
 HOUMA—Houma Lighting & Ice Mfg. Co.
 JEANERETTE—Jeanerette El. Lt. Plant
 JENNINGS—Jennings Elec. Lt. & Power Co.
 LAFAYETTE—City Wtr. Wks. & El. Lt. Plant
 LAKE CHARLES—Lake Charles Ice, Light & Water Works Co.
 LAKE PROVIDENCE—City El. Lt. & Wtr. Plant
 LEESVILLE—Leesville Light & Water Works Co.
 MINDEN—Minden Elec. Light & Power Co.
 MONROE—City Water, Lt. & Trac. Dept. (City)
 MORGAN CITY—Morgan City Imp. Co. (Ltd.)
 NATCHITOCHES—Natchitoches Elec. Light & Water Works (City)
 NEW IBERIA—New Iberia Water Works & Elec. Light Plant (City)
 NEW ORLEANS—Consumers' El. Co., 139 S. New Orleans Ry. & Lt. Co. Rampart Southern El. Securities Co., 213 Camp
 OPELOUSAS—City Elec. Light & Water Works (City)
 PLAQUEMINE—Plaquemine El. Lt. & Power Co.
 RAYNE—City El. Lt. & Wtr. Wks
 RUSTON—City Elec. Light Plant (City)
 SHREVEPORT—Shreveport Gas, Elec. Light & THIBODAUX—City El. Lt. Plant Pwr. Co.
 VIDALIA—City El. Lt. Plant

MAINE.

ASHLAND—El. Lt. Co. (The)
 AUBURN—Lewiston & Auburn El. Lt. Co., 34 Court
 AUGUSTA—Kennebec Lt. & Heat Co., 311 Water
 BANGOR—Bangor Ry. & El. Co. Bodwell Water Power Co. City El. Lt. Plant
 BAR HARBOR—Bar Harbor & Union River
 BATH—Sagadahock Lt. & Pwr. Co.
 BELFAST—Belfast Gas & Electric Co.
 BERWICK—United Gas & Electric Co.
 BIDDEFORD—York Light & Heat Co.
 BOOTHBAY HARBOR—Boothbay Harbor El. Lt. & Pwr. Co.
 BREWER—Public Works Co., Lighting Dept. (See Bangor) (Bangor Ry. & El. Co.)
 BRIDGTON—Bridgton Water & Elec. Co.
 BROWNVILLE—Brownville El. Lt. & P. Co.
 BRUNSWICK—Brunswick El. Lt. & Power Co.
 BUCKFIELD—Buckfield Wtr., Pwr. & El. Co.
 BUCKSPORT—Penobscot Bay El. Co.
 CALAIS—St. Croix Gas Light Co.

CAPE ELIZABETH—Consolidated El. Lt. Co. (See Portland)
 CAMDEN—Rockland, Thomaston & Camden St. & Ry. Co. (See Rockland)
 CARIBOU—Caribou Wtr., Lt. & Pwr. Co.
 CHERRYFIELD—Cherryfield Elec. Light Co.
 CLINTON—Clinton El. Lt. & Pwr. Co.
 CORINNA—Corinna El. Lt. Co.
 CUMBERLAND—Consolidated El. Lt. Co. of Maine. (See Portland)
 DEERING—(See Portland)
 DEXTER—Dexter Electric Co.
 DIXFIELD—Dixfield Lt. & Improvement Co.
 DOVER—Dover & Foxcroft Elec. Lt. & Heat Co.
 EASTON—Easton El. Co.
 EASTPORT—Eastport Lighting Co.
 ELLSWORTH—Bar Harbor & Union River Power Ellsworth Pwr. Supply Co. Co.
 FAIRFIELD—Waterville & Fairfield Ry. & Lt. Co. (See Waterville)
 FARMINGTON—Farmington Elec. Light Co.
 FORT FAIRFIELD—Fort Fairfield Lt. & Pwr. Co.
 FOXCROFT—Dover & Foxcroft Lt. & Heat Co.
 FREEPORT—Freeport El. Lt., Heat & P. Co.
 FRYEBURG—Fryeburg Electric Light Co.
 GARDINER—Kennebec Lt. & Heat Co. (See Augusta)
 GORHAM—Westbrook Elec. Light & Power Co.
 GREENVILLE—Greenville Lt. & Pwr. Co.
 GUILFORD—Piscataquis Woolen Co.
 HALLOWELL—Kennebec Light & Heat Co. (See Augusta)
 HIRAM—Cornish & Kezar Falls Lt. & P. Co.
 HOULTON—Houlton Inc. Lt. Co. Houlton Wtr. Co. Maine & New Brunswick Electrical Pwr. Co. (See Presque Isle)
 ISLAND FALLS—Emerson Lumber Co.
 KENNEBUNK—City El. Lt. Plant
 KENNEBUNKPORT—Kennebunk Elec. Light Co.
 LEWISTON—City Elec. Light Plant (City)
 LISBON FALLS—Lisbon Falls Gas & El. Co.
 LIVERMORE FALLS—Livermore Falls Light & MADISON—City El. Lt. Plant Power Co.
 MACHIAS—Machias Elec. Light Co.
 MARS HILL—Maine & New Brunswick Electrical Co. (See Presque Isle)
 MECHANIC FALLS—Mechanic Falls El. Lt. Co.
 MILLTOWN—St. Croix Gas Co. (See Calais)
 MILO—Milo El. Lt. & Pwr. Co.
 MONSON—Monson Lt. & Pwr. Co.
 NEWCASTLE—Twin Village Wtr. Co.
 NEWPORT—Newport Light & Power Co.
 NORRIDGEWOCH—Skowhegan Elec. Light Co. (See Skowhegan)
 NORTH BERWICK—United Gas & El. Co. (See Dover, N. H.)
 NORWAY—Norway & Paris Street Ry. Co.
 OAKLAND—Messalonskee Electric Co.
 OLD ORCHARD—Old Orchard Elec. Light Co.
 OLD TOWN—Bangor Ry. & El. Co.
 ORLAND—Penobscot Bay El. Co. (See Bucksport)
 ORONO—Old Town Electric Co. (See Old Town)
 PATTEN—Merrill Mill Co.
 PEMBROKE—Pembroke Pwr. Co.
 PHILLIPS—Phillips Lumber & Electric Co.
 PITTSFIELD—Sebastcook Power Co.
 PORTLAND—Consol. El. Lt. Co., of Maine Peaks Island Lt. Co. Portland El. Co., 24 Plum Portland Lighting & Pwr. Co.
 PRESQUE ISLE—Maine & New Brunswick Electrical Pwr. Co. (Ltd.)
 RANGELEY—Rangeley Lt. & Pwr. Co.
 PORTLAND—Consolidated El. Light Co. (Owner, Portland El. Co.)
 ROCKLAND—Rockland, Thomaston & Camden Street Ry. Co. (See Rockland)
 ROCKPORT—Rockland, Thomaston & Camden Street Ry. Co. (See Rockland)
 RUMFORD—Rumford Falls Light & Water Co. Rumford Power Co.
 SACO—York Light & Heating Co. (See Biddeford)
 SANFORD—Atlantic Shore Line Ry. Sanford Lt. & Pwr. Co.
 SANGERVILLE—Dover & Foxcroft Lt. & Heat Co.
 SKOWHEGAN—Skowhegan Elec. Light Co.
 SORRENTO—Sorrento Elec. Light Co.
 SOUTH BERWICK—Berwick & Salmon Falls El. Lt. Co.
 SOUTH PARIS—Norway & Paris Street Ry. Co. (See Norway)
 SOUTH PORTLAND—Consolidated Elec. Light Co. (Portland)
 THOMASTON—Rockland, Thomaston & Camden Street Ry. Co. (See Rockland)
 TOPSHAM—Brunswick El. Lt. & Pwr. Co. (See Brunswick)
 TURNER—Staples, E. L. El. Lt. Plant
 VASSALBORO—Vassalboro El. Lt. & Pwr. Co.
 WALDOBORO—Waldoboro Wtr., El. Lt. & Pwr. Co.

WATERVILLE—Fort Halifax Pwr. Co.
Messalonskee El. Co.
Union Gas & El. Co.
Waterville & Fairfield Railway & Light Co.
WESTBROOK—Mallison Pwr. Co. (See South
Presumpscott El. Co. Windham)
WINSLOW—Vassalboro El. Lt. & Pwr. Co.
(See Vassalboro)
Waterville & Fairfield Ry. & Lt. Co. (See
Waterville)
WINTHROP—Winthrop & Wayne Lt. & P. Co.
YARMOUTH—Consolidated Elec. Light Co.
(See Portland)
YORK—Agaminticus Light & Power Co.

MARYLAND.

ANNAPOLIS—Annapolis Gas & Elec. Lt. Co.
BALTIMORE—Consolidated Gas El. Lt. & Pwr.
Co. Baltimore County Wtr. & El. Co.
Maryland Telegraph & Telephone Co.
Patapsco Electrical & Mfg. Co.
Railway & Light Co. of America
BELAIR—Belair Electric Co.
BRUNSWICK—Harper's Ferry El. Lt. & Pwr.
Co.
CHESTERTOWN—Chestertown El. Lt. & Pwr.
Co.
CHESTERTOWN—Chestertown Elec. Lt. Co.
CRISFIELD—Crisfield Ice Mfg. Co.
CUMBERLAND—Cumberland City El. Lt. Plant
Edison Electric Ilg. Co. (City)
EASTON—Easton Fuel & Lt. Co.
ELKTON—Elkton Elec. Lt. & Power Co.
Gilpen Falls El. Co.
ELLIOTT CITY—Patapsco El. & Mfg. Co.
United El. Lt. & Pwr. Co. (The). (See Bal-
timore)
FREDERICK—City El. Plant
Frederick Gas & El. Co.
FROSTBURG—Frostburg Ilg. & Mfg. Co.
HAGERSTOWN—Hagerstown Elec. Lt. Plant
Hagerstown Railway Co. (City)
HAVRE DE GRACE—Havre de Grace El. Co.
HYATTSVILLE—Potomac El. Pwr. Co. (See
Washington, D. C.)
LAUREL—Laurel City El. Light Plant
LONACONING—Lonaconing El. Lt. & Power Co.
LONACONING—Home El. Lt. Co.
Lonaconing El. Lt. & Pwr. Co.
MOUNT WASHINGTON—Mount Washington
Elec. Lt. & Power Co.
NORTH EAST—Gilpen Falls Co. (See Elkton)
OAKLAND—Oakland Elec. Co.
POCOMOKE—Stevenson El. Lt. Co.
PORT DEPOSIT—Port Deposit El. Lt. Co.
ROCKVILLE—City El. Lt. Plant
SALISBURY—Salisbury Lt., Heat & Pwr. Co.
SNOW HILL—Snow Hill El. Lt. & Pwr. Co.
TOWSON—Mount Washington El. Lt. & Pwr.
Co. (See Mount Washington)
United Lt. & Pwr. Co. (See Baltimore)
WESTMINSTER—Carroll County El. Lt. &
Pwr. Co.
WILLIAMSPORT—Williamsport El. Lt. Plant
(City)

MASSACHUSETTS.

ABINGTON—El. Lt. & Pwr. Co. of Abington
& Rockland. (See North Abington)
ADAMS—Adams Gas Lt. Co. (See North Adams)
AGAWAN—Village Wtr. Co. (See Suffolk,
Conn.)
AMESBURY—Amesbury El. Lt. Co.
AMHERST—Amherst Gas Co.
ANDOVER—Andover Electric Co.
ARLINGTON—Edison El. Illuminating Co.
(The). (See Boston)
ASHBURNHAM—City El. Lt. Plant
ASHLAND—Edison El. Illuminating Co. (The).
(See Boston)
ATHOL—Athol Gas & Elec. Co.
ATTLEBORO—Attleboro Steam & Elec. Co.
AYER—Ayer El. Lt. Co.
BEDFORD—Lexington Gas & El. Co. (See
Lexington)
BELLINGHAM—Edison El. Illuminating Co.
(See Boston)
BELMONT—City El. Lt. Plant (City)
BEVERLY—Beverly Gas & Elec. Co.
BILLERICA—BillERICA El. Co.
BLACKSTONE—Blackstone El. Lt. Co. (See
East Blackstone)
BOSTON—Block Plant El. Lt. Co., 357 Wash-
ington
Charlestown Gas & El. Co., Thompson sq.
Edison El. Illuminating Co., 39 Boylston
Light, Heat & Pwr. Corp., 131 State
Massachusetts El. Cos., 84 State
Massachusetts Lighting Cos., 131 State
BRAINTREE—Braintree El. Lt. Plant (City)
BRIDGEWATER—Bridgewater Elec. Co.
BROCKTON—Edison Elec. Ill. Co. of Brockton
BROOKLINE—Boston Consolidated Gas Co.
BUCKLAND—Shelburne Falls El. Lt. & Pwr.
CAMBRIDGE—Cambridge El. Lt. Co.
CANTON—Edison El. Ilg. Co. (See Boston)

CHARLEMONT—El. Lt. Plant
CHARLESTOWN—Charlestown Gas & El. Co.
(See Boston)
CHELSEA—Chelsea Gas Light Co.
CHESTER—Chester Electric Light Co.
CHICOPEE—Municipal Elec. Light Plant
CLINTON—Clinton Gas Light Co.
COCHITUATE—Edison El. Ilg. Co. (See Bos-
ton)
COHASSET—Cohasset El. Co.
COLRAIN—Colrain El. Lt. & Pwr. Co.
CONCORD—City Elec. Lt. Plant (Municipal)
CONWAY—Deerfield River El. Lt. Co.
DALTON—Dalton Pwr. Co.
Pittsfield El. Co. (See Pittsfield)
DANVERS—Danvers Elec. Light Plant (City)
DEDHAM—The Edison El. Mfg. Co. (Boston)
DOUGLAS—Douglas El. Co.
DUDLEY—Webster & South Bridge Gas & El.
Co. (See Webster)
DUXBURY—Plymouth El. Lt. Co. (See Ply-
mouth)
EAST BLACKSTONE—Blackstone Elec. Light
EAST BRAINTREE—City El. Lt. Plant Co.
EAST BRIDGEWATER—Edison El. Ilg. Co.
(See Brockton)
EASTHAMPTON—Easthampton Gas Co.
EAST WEYMOUTH—Weymouth Lt. & Pwr. Co.
EVERETT—Madden El. Co. (See Madden)
FAIRHAVEN—New Bedford Gas & Edison Lt.
Co.
FALL RIVER—Fall River Electric Light Co.
20 Hartwell
FITCHBURG—Fitchburg Gas & Elec. Lt. Co.
FOXBORO—Foxboro El. Co.
FRAMINGHAM—The Edison El. Ilg. Co. (Bos-
ton)
FRANKLIN—Union Elec. Lt. Co.
GARDNER—Gardner Elec. Lt. Co.
GILBERTVILLE—Ware El. Co. (See Ware)
GLOUCESTER—Gloucester Electric Co.
GRAFTON—Grafton Electric Co.
GREAT BARRINGTON—Great Barrington Elec-
tric Light Co.
GREENFIELD—Greenfield El. Lt. & Pwr. Co.
HAVERHILL—Haverhill El. Co. (See Haver-
hill)
HANOVER—El. Lt. & Pwr. Co. of Abington
& Rockland. (See North Abington)
HARDWICK—Ware El. Co. (See Ware)
HAVERHILL—Haverhill Electric Co.
HINGHAM—Municipal Light Dept.
HOLBROOK—Randolph & Holbrook El. Lt. Co.
HOLLISTON—The Edison El. Ilg. Co. (Boston)
HOLYOKE—Holyoke Electric Light & Water
Holyoke Gas & El. Dept. (City) Pwr. Co.
HOPKINTON—Edison El. Ilg. Co.
HOUSATONIC—Great Barrington El. Lt. Co.
(See Great Barrington)
HUDSON—Town of Hudson El. Lt. & Pwr.
Plant (City)
HUNTINGTON—Huntington El. Lt. Co.
HYDE PARK—Hyde Park Electric Light Co.
KINGSTON—Plymouth El. Lt. Co.
LANCASTER—Clinton Gas Lt. Co. (See Clinton)
LAWRENCE—Lawrence Gas Co.
LEE—Lee Electric Co.
LEICESTER—Worcester El. Lt. Co.
LENOX—Lenox Electric Co.
LEOMINSTER—Leominster Elec. Lt. & Pwr. Co.
LEXINGTON—Lexington Gas & Electric Co.
LINWOOD—Uxbridge & North Uxbridge El.
Co. (See Uxbridge)
LONG MEADOW—United El. Lt. Co. (See
Springfield)
LOWELL—Lowell Elec. Lt. Corp., 28 Bridge
LUDLOW—Ludlow Mfg. Associates
LYNN—Lynn Gas & Elec. Co., 90 Exchange
MALDEN—Malden Electric Co.
MANCHAUG—Douglas El. Co.
MANCHESTER—Manchester El. Co.
MANSFIELD—City Elec. Lt. Plant (City)
MARBLEHEAD—Marblehead El. Lt. Plant
MARLBORO—Marlboro Electric Co.
MATTAPOISETT—New Bedford Gas & Edison
MAYNARD—El. Lt. Plant Lt. Co.
MEDFIELD—Edison El. Ilg. Co. (See Boston)
MEDFORD—Malden El. Co. (See Malden)
MEDWAY—Medway El. Lt. & Pwr. Co.
MELROSE—Malden El. Co. (See Malden)
MERRIMAC—City El. Lt. Plant
MIDDLEBORO—Middleboro Gas & Elec. Light
Plant (Town Owner)
MILFORD—Milford Elec. Light & Power Co.
MILLBURY—Millbury Electric Co.
MILLERS FALLS—City El. Lt. Plant
MILLIS—Edison El. Ilg. Co. (See Boston)
MILTON—The Edison El. Ilg. Co. (Boston)
MITTINEAGUE—Village Wtr. Co. (See Suf-
field, Conn.)
MONSON—Central Massachusetts El. Co. (See
Palmer)
MONTAGUE—Montague El. Lt. & Pwr. Co.
NAHANT—Lynn Gas & El. Co. (See Lynn)
NANTASKET—Town of Hull Elec. Lt. Dept.
(Town)
NANTUCKET—Citizens' Gas, El. & Pwr. Co.
NATICK—Edison Elec. Ill. Co.

NEEDHAM—Edison El. Ilg. Co. (Boston)
NEW BEDFORD—New Bedford Gas & Edison
Light Co.
NEWBURYPORT—Newburyport G. & E. Co.
NEWTON—Newton & Watertown Gas Lt. Co.
NORFOLK—Edison El. Ilg. Co. (See Boston)
NORTH ABINGTON—Electric Light & Power
Co. of North Abington & Rockland
NORTH ADAMS—North Adama Gas Lt. Co.
NORTHAMPTON—Northampton El. Lt. Co.
NORTH ATTLEBORO—City El. Lt. & Wtr.
Plant
NORTHBORO—Marlboro El. Co. (See Marl-
boro)
NORTHBRIDGE—Uxbridge & Northbridge El.
Co. (See Uxbridge)
NORTH UXBRIDGE—Uxbridge & Northbridge
El. Co.
NORWOOD—City El. Lt. Plant
OAK BLUFFS—Vineyard Lighting Co.
ORANGE—Orange El. Lt. Co.
OXFORD—Webster & Southbridge Gas & El.
Co. (See Webster)
PALMER—Central Massachusetts El. Co.
PEABODY—City Electric Light Plant (City)
PITTSFIELD—Pittsfield Electric Co.
PLYMOUTH—Plymouth Electric Light Co.
PROVINCETOWN—Cape Lt., Ht. & Pwr. Co.
QUINCY—Quincy Elec. Light & Power Co.
RANDOLPH—Randolph & Holbrook El. Lt.
READING—Reading El. Lt. Plant Co.
REVERE—Suburban Gas & El. Co.
ROCKLAND—El. Lt. & Pwr. Co. of Abington
& Rockland. (See North Abington)
ROCKPORT—Gloucester El. Co. (See Gloucester)
SALEM—Salem El. Lighting Co.
SAUGUS—Lynn Gas & El. Co.
SCITUATE—Cohasset El. Co. (See Cohasset)
SHARON—Edison El. Ilg. Co. (See Boston)
SHEFFIELD—Great Barrington El. Co. (See
Great Barrington)
SHELBOURNE FALLS—Shelbourne Falls Elec-
tric Light & Power Co.
SHERBORN—Edison El. Ilg. Co. (See Boston)
SHIRLEY—El. Lt. Plant
SHREWSBURY—City El. Lt. Plant
SOMERVILLE—Edison El. Ilg. Co. (See Bos-
ton)
SOUTHBORO—Middleboro El. Co. (See Mid-
dleboro)
SOUTHBRIDGE—Webster & Southbridge Gas
& El. Co.
SOUTH HADLEY FALLS—South Hadley Falls
SPENCER—Spencer Gas Co. El. Lt. Co.
SPRINGFIELD—United El. Lt. Co., 135 State
STOCKBRIDGE—Stockbridge Lighting Co.
STONEHAM—The Edison El. Ilg. Co. (Boston)
STOUGHTON—Stoughton Gas & Electric Co.
STOW—Hudson El. Lt. & Pwr. Co.
STURBRIDGE—Webster & Southbridge Gas &
El. Co.
SUNDERLAND—Sunderland El. Lt. & P. Co.
SUTTON—Grafton El. Co. (See Grafton)
SWAMPSCOTT—Lynn Gas & El. Co. (See
Lynn)
TAUNTON—Taunton Municipal Lighting Plant,
12 Mechanic la.
TEMPLETON—City El. Lt. Plant
TOWNSEND—U. S. Adams El. Lt. Co.
TURNERS FALLS—Franklin Elec. Light Co.
Turners Falls Co.
UXBRIDGE—Uxbridge & N. Uxbridge El. Co.
VINEYARD HAVEN—Vineyard Lighting Co.
(See Oak Bluffs)
WAKEFIELD—City El. Lt. & Gas Plant
WALPOLE—Edison El. Lt. Co.
WALTHAM—Waltham Gas Light Co.
WARE—Ware Electric Co.
WARREN—Central Massachusetts El. Co. (See
Palmer)
WATERTOWN—Newton & Watertown Gas
Lt. Co. (See Newton)
WAYLAND—The Edison El. Lighting Co. (See
Weston)
WEBSTER—Webster & Southbridge Gas & El.
Co.
WELLESLEY—Town El. Lt. Plant (City)
WESTBORO—Westboro Gas & Electric Co.
WEST BROOKFIELD—Central Massachusetts
El. Co. (See Palmer)
WESTFIELD—Westfield Gas & Electric Plant
WESTON—Weston Electric Light Co.
WEST SPRINGFIELD—United El. Co. (See
Springfield)
WESTWOOD—Edison El. Ilg. Co. (See Bos-
ton)
WEYMOUTH—Weymouth Lt. & Pwr. Co. (See
Lynn)
WHITINSVILLE—Uxbridge & Northbridge El.
Co. (See Uxbridge)
WHITMAN—Edison El. Ill. Co. of Brockton
WILLIAMSTOWN—Williamston Gas Co.
WINCHENDON—Winchendon El. Lt. & Pwr.
Co.
WINCHESTER—The Edison El. Ilg. Co. (Bos-
ton)
WINTHROP—Suburban Gas & El. Co. (See
Revere)

WOBURN—The Edison El. Ilg. Co. (Boston)
 WORCESTER—Worcester Electric Light Co., 66
 Faraday

MICHIGAN.

ADRIAN—Citizens' Electric Light & Power Co.
 ALBION—Commonwealth Pwr. Co. (See Jackson)
 ALGONAC—City El. Lt. & Wtr. Wks. Plant
 ALLEGAN—Allegan Lt. & Pwr. Co.
 ALMA—Alma Grain & Lumber Co.
 ALPENA—Alpena Electric Light Co.
 Alpena Pwr. Co., Ltd.
 City El. Lt. Plant
 ANN ARBOR—Washtenaw Lt. & Pwr. Co.
 ATLANTIC MINE—Houghton Co. El. Lt. Co.
 AUSABLE—El. Lt. Plant (See Houghton)
 BAD AXE—El. Lt. & Wtr. Plant (City)
 BANGOR—Bangor Lt. & Wtr. Plant (City)
 BARAGA—Elec. Lt. Dept. (Thos. Nester Est.)
 BATTLE CREEK—Citizens' El. Co. (The)
 Commonwealth Pwr. Co. (See Jackson)
 BAY CITY—Bay City Trac. & El. Co.
 City Elec. Light Plant (City)
 BEAVERTON—El. Lt. Plant
 BELDING—Citizens' Light Co.
 Spencer Electric Light & Power Co.
 BELLE AIR—Municipal El. Lt. Plant
 Hydraulic Pwr. & Lt. Co.
 BENTON HARBOR—Benton Harbor-St. Joe
 Ry. & Lt. Co.
 BESSEMER—Gogebic El. Lt. Co.
 BIG RAPIDS—Donley, W. E. El. Lt. & P. Co.
 Grand Rapids-Muskegon Pwr. Co. (See
 Grand Rapids)
 BLISSFIELD—City Electric Light Plant
 BOYNE CITY—Boyne River Pwr. Co.
 BRIGHTON—Brighton Elec. Lt. & Power Co.
 BRONSON—Frederick, Wm. H. & Co.
 BROOKLYN—El. Lt. Plant
 BROWN CITY—Brown City El. Lt. Wks. (City)
 BUCHANAN—Indiana & Michigan El. Co.
 CADILLAC—Cadillac Wtr. & Lt. Co.
 CALUMET—Houghton County El. Lt. Co. (See
 Caro)
 CARO—Caro Light & Power Co. (Houghton)
 CARSON CITY—Rockafellow Grain Co. (Ltd.)
 CASS CITY—City El. Lt. Plant
 CASSOPOLIS—Cassopolis Milling & Power Co.
 CENTRAL LAKE—Central Lake El. Lt. Co.
 CENTERVILLE—Centerville Water & Elec. Co.
 CHARLEVOIX—City El. Lt. Plant (City)
 CHARLOTTE—Charlotte General Electric Co.
 CHEBOYGAN—Cheboygan Electric Light &
 Power Co.
 CHELSEA—Municipal Electric Light & Water-
 works Co.
 CHESANING—City Elec. Light Plant (City)
 CLARE—Milling, Lt. & Pwr. Co.
 CLINTON—City Electric Light Plant (City)
 COLDWATER—City Electric Light Plant
 CONSTANTINE—Constantine Hydraulic Co.
 CORUNNA—Owassa & Corunna El. Co. (See
 Shiawassee Lt. & Pwr. Co. Owassa)
 CROSWELL—City El. Lt. Plant
 CRYSTAL FALLS—Crystal Falls El. Lt. &
 Wtr. Wks. (City)
 DECATUR—City El. Lt. & Wtr. Plant
 DETROIT—City El. Plant, 40 Atwater St., E.
 Detroit Edison Co.; N. Y. Office, 30 Broad
 Edison Illuminating Co.
 National Gas, Lt. & Pwr. Co.
 Peninsular El. Lt. Co.
 Rochester Lt. & Pwr. Co.
 DOWAGIAC—Dowagiac El. Lt. Plant
 El. Lt. Dept. (Beckwith Estate)
 DUNDEE—Dundee Electric Light Co.
 DURAND—City El. Lt. & Wtr. Plant
 EAST JORDAN—East Jordan El. Lt. & P. Co.
 EASTLAKE—Peters, R. G. Salt & Lumber Co.
 EAST TAWAS—City El. Lt. Plant
 EATON RAPIDS—Eaton Rapids Electric Light
 Plant (City)
 ELK RAPIDS—Elk Rapids El. Co.
 ESCANABA—City Electric Light Plant (City)
 Escanaba El., Pulp & Pwr. Co.
 EVART—Village Elec. Lt. Plant (Village)
 FENNVILLE—Fennville Roller Mill Co.
 FENTON—Fenton Electric Light & Power Co.
 FLINT—Flint Lt. & Pwr. Co.
 FLUSHING—City El. Lt. & Wtr. Wks.
 FOWLERVILLE—Fowlerville Lighting Co.
 FRANKFORT—Frankfort El. Lt. Co., 101 Sib-
 ben, Manistee, Mich.
 FREMONT—Fremont El. Lt. & Wtr. Wks.
 GAYLORD—City El. Lt. & Wtr. Wks.
 GLADSTONE—City Electric Light Plant (City)
 GLADWIN—El. Lt. Plant
 GRAND HAVEN—City Elec. Lt. Plant (City)
 GRAND LEDGE—City El. Lt. & Wtr. Wks.
 GRAND MARAIS—Marais Lumber Co.
 GRAND RAPIDS—Edison Light Co.
 Grand Rapids-Muskegon Pwr. Co., 47 Mon-
 roe
 Municipal El. Lt. Plant
 GRAYLING—Grayling Electric Co.
 GREENVILLE—Greenville Gas, El. Lt., Pwr.
 & Fuel Co.

HANCOCK—Houghton County El. Lt. Co. (See
 Houghton)
 HARBOR BEACH—Harbor Beach El. Lt.
 Plant
 HARBOR SPRINGS—Municipal El. Lt. Plant
 (Town)
 HART—Elec. Light & Waterworks (Town)
 Pere Marquette Lt. & Pwr. Co.
 HARTFORD—El. Lt. Plant
 HASTINGS—Thornapple Gas & El. Co.
 HILLSDALE—City Elec. Light Plant (City)
 HOLLAND—City Lt. & Wtr. Plant
 HOLLY—Holly Lighting Co.
 HOMER—Homer El. Lt. & Pwr. Co.
 HOUGHTON—Houghton Co. El. Lt. Co.
 HOWARD CITY—Howard City El. Lt. & Pwr.
 Co.
 HOWELL—Howell Electric Light & Power Wks.
 HUDSON—Hudson Electric Light Co. (City)
 INLAY CITY—Inlay City El. Lt. Co.
 IONIA—Ionia Wtr., Pwr. & El. Co.
 IRON MOUNTAIN—Iron Mountain Electric Lt.
 & Power Co.
 IRON RIVER—Menominee Range Pwr. & De-
 vel. Co.
 IRONWOOD—Twin City General Electric Co.
 ISHPEMING—Marquette County Gas & El. Co.
 ITHACA—Ithaca El. Lt. Plant
 JACKSON—Commonwealth Pwr. Co.
 JONESVILLE—City Lt. & Wtr. Wks.
 KALAMAZOO—City Electric Light Plant (City)
 The Commonwealth Pwr. Co.
 KALKASKA—Kalkaska Lt. & Power Co.
 LAKE LINDEN—Houghton Co. El. Lt. Co.
 LAKE ODESSA—Thornapple El. Co.
 LAKEVIEW—Lakeview El. Lt. Co.
 LANSING—City El. Lt. & Wtr. Plant
 LA PEER—La Peer Gas & El. Co.
 El. Lt. Plant
 LESLIE—Leslie Electric Light & Power Co.
 LOWELL—City of Lowell Light & Power Plant
 (City)
 LUDINGTON—Stearns' Lighting & Pwr. Co.
 MACATAWA—Macatawa Resort Co.
 MACKINAW—Pellston Lt. & Pwr. Co. (See
 Pellston)
 MANCERONA—Antrim Lt. & Pwr. Co.
 MANCHESTER—City El. Lt. Plant
 MANISTEE—Manistee Lt. & Traction Co.
 MANISTIQUE—Manistique Lt. & Pwr. Co.
 MANTON—City El. Lt. & Wtr. Plant
 MARCELLUS—City El. Lt. Plant
 MARINE CITY—Marine City Roller Mill Co.
 MARLETTE—Village Elec. Lt. Plant (Village)
 MARQUETTE—City El. Lt. & Pwr. Co.
 MARSHALL—City Wtr. & El. Wks.
 MASON—Mason Water & Elec. Lt. Wks. (City)
 MENOMINEE—Menominee & Marinette Lt. &
 MIDLAND—Bristol El. Lt. Co. Trac. Co.
 MILAN—El. Lt. Plant
 MILFORD—Milford El. Lt. Wks.
 MONROE—Monroe Electric Light Plant (City)
 MOUNT CLEMENS—St. Clair Edison Co.
 MOUNT PLEASANT—Harris El. Co.
 MUNISING—El. Lt. & Pwr. Co.
 MUSKEGON—Grand Rapids-Muskegon P. Co.
 Muskegon Traction & Lighting Co.
 NASHVILLE—Thornapple El. Co. (See Hast-
 ings)
 NEGAUNEE—City El. Lt. Plant
 Marquette County Gas, Lt. & Trac. Co.
 (See Ishpeming)
 NEWAYGO—Newaygo, Portland Cement Co.
 NEW BALTIMORE—City El. Lt. Plant
 NEWBERRY—City El. Lt. Plant (City)
 NILES—City El. Lt. Plant
 NORTHVILLE—City El. Lt. Plant
 NORWAY—City El. Lt. Plant (City)
 ONAWAY—Onaway El. Lt. & Pwr. Co.
 ONTONAGON—City El. Lt. Plant
 OSCODA—Pioneer El. Co.
 OTSEGO—City El. Lt. Plant
 OVID—Ovid Elec. Light & Waterworks (City)
 OWOSSO—Owosso & Corunna Electric Co.
 OXFORD—City Wtr. & El. Lt. Plant
 PAW PAW—City El. Lt. Plant
 PENTWATER—Pere Marquette Lt. & P. Co.
 PETOSKEY—City Elec. Light Plant (City)
 PLAINWELL—Easley Lt. & Pwr. Co.
 PLYMOUTH—City El. Lt. Plant
 PONTIAC—Pontiac Lt. Co.
 PORT HURON—Port Huron Lt. & Power Co.
 PORTLAND—City El. Lt. Plant (City)
 QUINCY—City El. Lt. Plant
 Houghton County El. Lt. Co. (See Hough-
 ton)
 READING—City El. Lt. Plant (City)
 RED JACKET—Houghton County El. Lt. Co.
 (See Houghton)
 REED CITY—Osceola Lt. & Pwr. Co.
 RICHMOND—City Lt. & Wtr. Plant
 RIVER ROUGE—Town Electric Light Plant
 (City)
 ROCHESTER—Rochester Elec. Lt. & Pr. Co.
 ROCKFORD—Rogue River Electric Light Co.
 ROMEO—City Electric Light Plant (City)
 SAGINAW—Bartlett Illuminating Co.

ST. CHARLES—City El. Lt. Plant
 ST. CLAIR—St. Clair Electric Light & Water
 Works (City)
 ST. IGNACE—City El. Lt. Plant (City)
 ST. JOHNS—St. Johns El. Lt. & Wtr. Plant
 ST. JOSEPH—Benton & St. Joseph Harbor El.
 City El. Lt. Plant
 Indiana & Michigan El. Co.
 ST. LOUIS—City Electric Light Plant (City)
 SAULT SAINTE MARIE—Edison Sault Elec.
 Mich., Lake Superior P. Co. Co.
 SEBEWAING—Likien, John C. & Co.
 SHELBY—City El. Lt. Plant
 SOUTH HAVEN—City El. Lt. Plant (City)
 SPALDING—Ross Bros. & Co.
 SPARTA—Sparta Milling Co.
 SPRINGPORT—Town El. Light Plant (Village)
 STANDISH—Citizens' Mfg. Co.
 STANTON—Stanton Light & Water Plant (City)
 STURGIS—Sturgis El. Lt. Plant (City)
 TAWAS CITY—El. Lt. & Pwr. Plant
 TECUMSEH—Tecumseh Electric Co.
 THREE OAKS—Village Electric Light Plant
 (Village)
 THREE RIVERS—Three Rivers Lt. & Pr. Co.
 Constantine Hydraulic Company.
 TRAVERSE CITY—Boardman River Electric
 Light & Power Co.
 TRENTON—Washtenaw Lt. & Pwr. Co. (See
 Ann Arbor)
 UNION CITY—City El. Lt. & Wtr. Wks.
 VASSAR—Town Electric Light Plant (City)
 VICKSBURG—City El. Lt. & Wtr. Wks.
 VULCAN—Norway El. Lt. Plant
 WAYNE—Washtenaw Lt. & Pwr. Co. (See
 Ann Arbor)
 WEST BRANCH—Rifle River El. Lighting Co.
 WHITEHALL—City El. Lt. Plant Co.
 WILLIAMSTON—Williamston Ilg. Co.
 WYANDOTTE—Wyandotte Electric Light Plant
 YALE—Town Electric Plant (City)
 YPSILANTI—City Electric Light Plant (City)
 ZEELAND—City Water and Light Plant (City)

MINNESOTA.

ADA—Town El. Lt. & Wtr. Wks.
 ADRIAN—City Lt. & Wtr. Plant
 AITKEN—Village Electric Light Plant (City)
 Altken P. and Light Co.
 AKELEY—Red River Lumber Co.
 ALBERT LEA—Albert Lea Lt. & Pwr. Co.
 ALEXANDRIA—Alexandria Elec. Light Plant
 ANOKA—Anoka El. & wtr. Wks. Co. (City)
 APPLETON—City Electric Light and Water
 ARGYLE—City El. Lt. Plant Wks. (City)
 ARLINGTON—City Electric Light Plant
 AUSTIN—City El. Lt. Plant
 BARNESVILLE—City El. Lt. Plant
 BEMIDJI—Bemidji El. & Pwr. Plant
 Warfield El. Co.
 BENSON—City El. Lt. Plant
 BIWABIK—City El. Lt. Plant
 BLACKDUCK—Blackduck El. & Telephone Co.
 BLOOMING PRAIRIE—Campbell, L. G. Mfg.
 Co.
 BLUE EARTH—City El. Lt. & Wtr. Wks.
 BRAINERD—Brainerd Municipal Elec. Light
 Plant
 BRECKENRIDGE—Town Electric Light and
 Water Works (City)
 CALEDONIA—City El. Lt. Plant
 CANNON FALLS—Cannon Falls El. Pwr. Co.
 Cannon Falls El. Service Co.
 CASS LAKE—Cass Wtr., Lt. & Pwr. Co.
 CHASKA—Chaska El. Lt. & Pwr. Plant
 CHATFIELD—Chatfield El. Lt. & Pwr. Co.
 CHISHOLM—Chisholm Lt. & Pwr. Co.
 CLOQUET—Cloquet Electric Co.
 CROOKSTON—Crookston Water Works, Power
 & Light Co.
 DAWSON—City El. Lt. & Wtr. Wks.
 DELANO—Delano Water & Electric Light
 DETROIT—City El. Lt. Plant (City)
 DULUTH—Duluth Edison El. Co.
 Great Northern Power Co.
 EAST GRAND FORKS—City Electric Light
 Plant (City)
 ELY—City Electric Light Plant (City)
 EVELETH—Eveleth El. Co.
 FAIRMONT—City El. Plant (City)
 FARIBAULT—Faribault Gas & El. Co.
 Polar Star El. Co.
 FERGUS FALLS—City El. Lt. Plant (City)
 Otter Tail Pwr. Co.
 Wright, A. Vernon
 FOSTON—City El. Lt. Plant
 FRAZEE—Frazee El. Lt. Plant
 GLENCOE—Glencoe El. Lt. Co.
 GLENWOOD—Glenwood Mill & El. Co.
 GRACEVILLE—Village Elec. Lt. Plant (Vil-
 lage)
 GRAND RAPIDS—City El. Lt. Plant
 GRANITE FALLS—Village Electric Light Plant
 (Village)
 HASTINGS—Hastings El. Lt. & Wtr. Pwr. Co.

HENDERSON — Henderson Light & Water Works (Village)
 HIBBING—Municipal Light & Water Plant
 HUTCHINSON—Hutchinson Lighting & Mfg. Co.
 JACKSON—City Electric Light Plant (City)
 JORDAN—Jordan El. Lt. & Heating Co.
 KASSON—City El. Lt. Plant
 KENYON—Kenyon El. Lt. Plant
 LAKE CRYSTAL—Crystal Milling Co.
 LAKEFIELD—City El. Lt. & Wtr. Wks.
 LANESBORO—Lanesboro Electric Light Co.
 LE ROY—Le Roy El. Lt. Plant
 LE SUER—City El. Lt. Plant
 LITCHFIELD—Village Elec. Lt. Plant (Village)
 LITTLE FALLS—Little Falls Wtr. Pwr. Co. of Minn.
 LONG PRAIRIE—Village El. Lt. Plant (Village)
 LUVERNE—Village Elec. Lt. Plant (Village)
 MADISON—City Electric Light Plant
 MANKATO—Mankato Gas & Electric Light Co.
 MAPLETON—Mapleton Electric Light Co.
 MARSHALL—City Electric Light Plant (City)
 MELROSE—City El. Lt. & Wtr. Wks. Plant
 MINNEAPOLIS—Minneapolis General El. Co.
 MONTEVIDEO—Montevideo El. Lt. & Pwr. Co.
 MOORHEAD—Moorhead Lt. & Wtr. Plant
 MORA—Mora Electric Light Co.
 MORRIS—Morris Electric Light Co.
 NEW PRAGUE—City El. Lt. & Wtr. Wks.
 NEW RICHLAND—Lea & Borge Plant
 NEW ULM—New Ulm Electric Light Co. (City)
 NORTHFIELD—Northfield Lt., Ht. & Pr. Co.
 OLIVIA—City El. Lt. Plant
 ORTONVILLE—City Elec. Lt. Plant (City)
 OSAKIS—Osakis Milling Co.
 OWATONNA—Public Service Operating Co.
 PARK RAPIDS—El. Lt. Plant
 PAYNESVILLE—City Wtr. & Lt. Plant (City)
 PELICAN RAPIDS—City El. Lt. Plant
 PERHAM—City El. Lt. Plant
 PINE CITY—Pine City Milling & El. Co.
 PIPESTONE—Pipestone El. Lt., Heat & P. Co.
 PLAINVIEW—Plainview El. Lt. & Pwr. Co.
 PRESTON—Preston El. Lt. & Water Wks (City)
 PRINCETON—City El. Lt. & Wtr. Wks.
 RED LAKE FALLS—Red Lake Falls Electric Light Co.
 REDWING—Redwing Gas, Lt. & Power Co.
 REDWOOD FALLS—Redwood Falls Milling Co.
 ROCHESTER—Rochester Elec. Lt. Plant (City)
 RUSH CITY—Rush City Electric Light Co.
 RUSHFORD—Town Electric Light Plant (City) Rushford Power Co.
 ST. CHARLES—City El. Lt. Plant
 ST. CLOUD—St. Cloud Public Service Co.
 ST. JAMES—Village Elec. Lt. Plant (Village)
 ST. PAUL—Northern Heating & El. Co. St. Paul Gas Light Co.
 ST. PETER—St. Peter Electric Light & Water Works (Village)
 SANDSTONE—Sandstone Land Co.
 SAUK CENTER—Central Minnesota Power & Milling Co.
 SAUK RAPIDS—Public Service Co. (See St. Cloud)
 SHAKOPEE—Shakopee Electric Light Plant (City)
 SHERBURNE—Sherburne Electric Light Co.
 SLEEPY EYE—Village Elec. Lt. Plant (Village)
 SOUTH ST. PAUL—South St. Paul El. Lt., Heat & Pwr. Co.
 SOUTH STILLWATER—City El. Lt. Plant
 SPARTA—City El. Lt. Plant
 SPRINGFIELD—Village Elec. Lt. Plant (Village)
 SPRING VALLEY—Spring Valley Electric Light & Investment Co.
 STAPLES—City El. Lt. Plant
 STILLWATER—Stillwater Gas & Elec. Lt. Co.
 THIEF RIVER FALLS—City El. Lt. Plant
 TOWER—Village El. Lt. Plant (City)
 TRACY—Village Elec. Light Plant (Village)
 TWO HARBORS—City El. Lt. & Wtr. Plant
 VIRGINIA—Virginia Light & Water Co.
 WABASHA—Jones, R. E. & Co.
 WADENA—City El. Lt. & Wtr. Wks. Plant
 WARREN—City Wtr. & Lt. Plant
 WASECA—City Lt. & Wtr. Plant
 WELLS—Water & Elec. Lt. Works (Village)
 WHITE BEAR LAKE—White Bear Elec. Co.
 WILLMAR—Electric Lt. & Water Works (Village)
 WINDOM—Water & Elec. Lt. Plant (City)
 WINNEBAGO CITY—El. Lt. & Water Wks.
 WINONA—Minnesota Lt. & Pwr. Co. (City) Winona Railway & Lt. Co.
 WINTHROP—City El. Lt. Plant
 WORTHINGTON—City Lt. & Wtr. Plant
 ZUMBROTA—Zumbrota El. Co.

MISSISSIPPI.

ABERDEEN—City El. Lt. Plant & Wtr. Wks.
 AMORY—Amory Lt. & Pwr. Co.
 BATESVILLE—Paola El. Lt. Co.
 BAY ST. LOUIS—El. Lt. Plant
 BILOXI—Gulfport & Mississippi Traction Co., Gulfport
 BOONEVILLE—Booneville Electric Light Co.
 BROOKHAVEN—Brookhaven El. Lt. Plant
 CANTON—City El. Lt. & Wtr. Wks. (City)
 CLARKSDALE—Water & Lighting Plant (City)
 COLLINS—City El. Lt. Plant
 COLUMBUS—Columbus Ry., Lt. & Pwr. Co.
 CORINTH—Alcom El. Lt. Co.
 The Corinth El. Lt. & Pwr. Co.
 DURANT—City Electric Light Plant
 ELLISVILLE—Town El. Lt. & Wtr. Plant
 GREENVILLE—Delta El. Lt., P. & Mfg. Co.
 GLOSTER—City El. Lt. & Wtr. Wks.
 GREENWOOD—Greenwood Water & Light Plant (City)
 GRENADA—City Wtr. & Lt. Plant
 GULFPORT—Gulfport & Mississippi Coast Traction Co.
 HATTIESBURG—Hattiesburg Traction Co.
 HAZLEHURST—El. Lt. Plant (City)
 HOLLY SPRINGS—Town Wtr. & Lt. Plant
 JACKSON—Capital Light & Pwr. Co. (City) Jackson Electric Railway Light & Power Co.
 KOSCIUSKO—Planters' Oil Mill & Gln. Co.
 LAUREL—Gulf States Investment Co.
 LEXINGTON—Lexington Compress & Oil Mill
 LUMBERTON—Camp & Hinton Co. Co.
 MACOMB—Macomb City Elec. Lt. & Pr. Co.
 MACON—City Wtr. & Lt. Plant (City)
 MAGNOLIA—Magnolia El. Lt. Co.
 MERIDIAN—Meridian Lt. & Ry. Co.,
 MOSSPOINT—Pascagoula Str. Ry. & Pwr. Co.
 NATCHEZ—So. Lt. & Trac. Co.
 NEW ALBANY—City Wtr. & Lt. Plant
 OCEAN SPRINGS—Gulfport & Mississippi Coast Traction Co. (See Gulfport)
 OKOLONA—Okolona El. Lt. Plant (City)
 OXFORD—University Lt. Plant
 PASCAGOLA—Pascagoula Str. Ry. & Pwr. Co.
 PONTOTOC—Pontotoc Lt. & Pwr. Co. Co.
 POPLARVILLE—Lt. & Wtr. Wks.
 PORT GIBSON—Town Lt. & Wtr. Plant (City)
 SARDIS—Panola El. Lt. & Pwr. Co.
 SCRANTON—Pascagoula St. Ry. & Pwr. Co.
 SENATOBIA—City El. Lt. & Wtr. Wks.
 STARKVILLE—El. Lt. & Wtr. Plant
 SUMMIT—McComb City El. Lt. & Pwr. Plant
 TUNICA—Tunica Electric Light & Power Co.
 TUPELO—City El. Lt., Wtr. & Sewerage Plant
 VICKSBURG—Vicksburg R. R. & Lt. Co.
 WATER VALLEY—Munic. El. Lt. Plant (City)
 WESSON—Wesson Ltg. & Pwr. Co.
 WEST POINT—City El. Lt. Plant
 WINONA—Winona Wtr., Sewerage, Ice & Lt. Co.
 YAZOO—Lt., Wtr. & Sewerage Plant Co.

MISSOURI.

ALBANY—Albany El. Lt. & Wtr. Plant
 APPLETON CITY—City Lt. Plant
 AURORA—Aurora Lt., Ice & Storage Co.
 BETHANY—Town Lt. & Wtr. Wks. (City)
 BLOOMFIELD—Bloomfield El. Lt., H. & P. Co.
 BOLIVAR—City El. Lt. & Wtr. Wks. Plant
 BOONVILLE—Boonville Elec. Lt. & Pr. Co.
 BOWLING GREEN—Pike County El. Lt. & P.
 BRAYMER—Braymer Lt. & Fuel Co. Co.
 BRECKENRIDGE—City El. Lt. Plant
 BROOKFIELD—Brookfield Electric Light Co.
 BRUNSWICK—Brunswick Wtr. & Lt. Wks.
 BUTLER—City Lt. & Pwr. Plant
 CALIFORNIA—California Elec. Lt. & Pr. Co.
 CAMERON—Cameron El. Lt. & Wtr. Plant
 CAMPBELL—Campbell Mill & Lt. Co.
 CANTON—Canton El. Lt. Plant (City)
 CAPE GIRARDEAU—Cape Girardeau Water Works & Electric Light Co.
 CARROLLTON—Water Lt. & Transit Co.
 CARTERVILLE—Southwest Missouri Lt. Co. (See Joplin)
 CARTIAGE—Carthage El. Lt. Plant
 Empire El. Pwr. & Supply Co.
 CARUTHERSVILLE—Ice & Lighting Co.
 CENTRALIA—Centralia El. Lt. Plant
 CHARLESTON—Southeast Missouri Ice, Lt. & Pwr. Co.
 CHILLICOTHE—People's Gas & Electric Co.
 CLARENCE—Clarence El. Lt. Plant
 COLUMBIA—City El. Lt. & Wtr. Plant
 DE SOTO—Consumers' Elec. Lt. & Pr. Co.
 DEXTER—City El. Lt. Plant (City)
 EDGERTON—El. Lt. Plant
 EDINA—Edina Lt. Co.
 ELDORADO SPRINGS—Eldorado Springs El. Co.
 EXCELSIOR SPRINGS—Excelsior Springs Lt., Pwr., Heat & Wtr. Co.

FARMINGTON—City El. Lt. Plant
 FAYETTE—City El. Lt. Plant (City)
 FERGUSON—King El. Co. (See St. Louis)
 FESTUS—City El. Lt. Plant
 FREDERICKTOWN—Fredericktown El. & Mfg. Co.
 FULTON—City El. Lt. Plant (City)
 GALLATIN—City Lt. & Wtr. Wks.
 GLASGOW—Glasgow El. Lt., Pwr. & Industrial Co.
 GRANT CITY—Grant City El. Lt. Plant
 HAMILTON—Hamilton El. Lt. Co.
 HANNIBAL—City El. Lt. & Pwr. Plant
 HARRISONVILLE—Harrisonville Electric Light Plant (City)
 HERMANN—Hermann Electric Light Co.
 Higbee El. Lt., Heat & Pwr. Co.
 HIGGINSVILLE—Higginsville Water & Light Plant (City)
 HOLDEN—Holden Elec. Light Plant (City)
 HUNTSVILLE—Huntsville Lt. & Pwr. Co.
 INDEPENDENCE—Independence Light Plant (City)
 JACKSON—City El. Lt. Plant (City)
 JEFFERSON CITY—Jefferson City Light, Heat & Power Co.
 JOPLIN—Consol. Lt., Pwr. & Ice Co. City El. Lt. Plant (City) Joplin Lt. Pwr. & Wtr. Co. The Spring River Pwr. Co., 315 Miner's Bank bldg.
 KAHOKA—City Wtr. & Lt. Plant
 KANSAS CITY—Kansas City Electric Light Co.
 KENNETT—Ice & El. Co.
 KIRKSVILLE—Kirksville Lt., Pwr. & Ice Co.
 KIRKWOOD—Kirkwood El. Lt. & Pwr. Co. Suburban El. Lt. & Pwr. Co. (See Webster Groves)
 LA BELL—City El. Lt. Plant
 LA GRANGE—City El. Lt. Plant (City)
 LAMAR—Lamar Wtr. & Lt. Co.
 LANCASTER—City Lt. & Pwr. Plant
 LA PLATA—La Plata Electric Light Co.
 LEBANON—City Lt. & Wtr. Co.
 LEES SUMMIT—Lees Summit El. Lt. Plant
 LEXINGTON—Lexington El. & Gas Co.
 LIBERTY—Liberty El. Lt. Plant
 LOUISIANA—Louisiana Lt. Pwr. & Trac. Co.
 MACON—City El. Lt. & Wtr. Wks.
 MALDEN—City Electric Light Plant (City)
 MARCELINE—Marceline El. Lt. Plant
 MARSHALL—Marshall Light, Heat & Pwr. Co.
 MARYVILLE—Maryville El. Lt., Ht. & P. Co.
 MEMPHIS—Memphis El. Lt., Heat & P. Co.
 MEXICO—Mexico Elec. Lt., Ht. & Pr. Co.
 MILAN—City Electric Light Plant (City)
 MOBERLY—Moberly Gas & Electric Co.
 MONETT—Monett Elec. Lt., Pr. & Ice Co.
 MONROE CITY—Monroe City Electric Light Plant (City)
 MONTGOMERY CITY—Montgomery Electric Light Plant
 MOUND CITY—Mound City El. Lt. & P. Co.
 MOUNT VERNON—City Wtr. & El. Lt. Plant
 NEOSHO—Neosho Electric Light Co.
 NEVADA—Missouri Water, Lt. & Traction Co.
 NEW MADRID—New Madrid Lt., Heat & Pwr. Plant
 NORBORNE—Norborne Fuel, Ice & Lt. Co.
 ODESSA—City Electric Light Plant (City)
 OREGON—City Water & Light Plant (City)
 PACIFIC—Pacific Electric Co.
 PALMYRA—Palmyra Light & Water Co.
 PARIS—Paris El. Lt. & Water Works (City)
 PIERCE CITY—City El. Lt. Plant (City)
 PLATTSBURG—Plattsburg Light & Power Co.
 PLEASANT HILL—The Hotel Light, Power & Water Co.
 POPULAR BLUFF—Popular Bluff Lt. & P. Co.
 PRINCETON—City Electric Light Plant (City)
 RICH HILL—City El. Lt. Plant
 RICHMOND—Richmond Electric Light Co.
 ROCKPORT—City Electric Light Plant (City)
 ROLLA—City El. Lt. & Pwr. Co.
 ROSEDALE—Kansas City El. Co. (See Kansas City)
 ST. CHARLES—City El. Lt. Plant (City) St. Charles Electric Light & Power Co.
 ST. GENEVIEVE—Home Lt. & Wtr. Co.
 ST. JOSEPH—City El. Lt. Plant (City), 5th & Olive St. Joseph Ry., Lt., Heat & Power Co.
 ST. LOUIS—Klng El. Co. Laclede Gas Light Co., 716 Locust Laclede Power Co., 421 Olive Neighborhood Light, Power & Heating Co. Union Electric Light, Heat & Power Co.,
 SALISBURY—City El. Lt. Plant
 SARCOXIE—Sarcoxie Elec. Lt. & Mill Co.
 SAVANNAH—City Electric Light Plant (City)
 SEDALIA—Sedalia Ice, Lt. & Fuel Co. Sedalia Lt. & Trac. Co.
 SHELBYVILLE—City Electric Light Plant
 SHELBYVILLE—City Electric Light Plant
 SKESTON—Skeston Ice, Lt. & Pwr. Co.
 SLATER—City Lt. & Wtr. Plant
 SPRINGFIELD—Springfield Gas & El. Co.
 STANBERRY—Stanberry El. Lt. & Pwr. Co.

TARKIO—Tarkio Electric & Water Co.
 THAYER—Mammoth Springs El. Lt. Co. (See Mammoth Springs, Ark.)
 TRENTON—Citizens Gas & El. Co.
 TROY—Town Electric Plant (City)
 UNION—(See Washington, Mo.)
 UNIONVILLE—City El. Lt. & W. Wks (City)
 VANDALIA—Vandalia El. Lt. Plant
 VERCAILLES—Town Electric Light Plant (City)
 WARRENSBURG—Warrensburg Lt. & P. Co.
 WARRENTON—Siefert, A. F. (The) El. Lt.
 WASHINGTON—Tibbe El. Co. Plant
 WEBB CITY—Consolidated Lt., P. & Ice Co.
 WEBSTER GROVE—Suburban El. Lt. & P. Co.
 WELLSVILLE—Wellsville El. Lt. Plant
 WEST PLAINS—City Wtr. & Lt. Plant
 WILLOW SPRINGS—Willow Springs Wtr. & Lt. Co.

WINDSOR—Windsor Lt., Wtr., Heat & P. Co.

MONTANA.

ANACONDA—Anaconda Copper Mining Co. Missouri River Pwr. Co. (See Helena)
 BIG TIMBER—Big Timber Light & Power Co.
 BILLINGS—Billings Water Power Co. Yellowstone River Pwr. Co.
 BOZEMAN—Gallatin Lt., Pr. & Ry. Co.
 BUTTE—Butte Electric & Power Co. Madison River Pwr. Co.
 DEER LODGE—Deer Lodge Electric Co.
 DILLON—Union El. Co.
 FORT BENTON—Benton Lt. & Pwr. Co.
 GLENDINE—Hughes El. Lt. Co.
 GREAT FALLS—Boston & Great Falls Electric Light & Power Co.
 HAVRE—Havre El. Co.
 HELENA—Helena Lt. & Ry. Co. Missouri River Power Co.
 KALISPELL—Kalispell Water & Electric Co. Flathead Valley Wtr. Pwr. Co.
 LEWISTON—Citizens' El. Lt. & Pwr. Co.
 LIVINGSTON—Livingston Wtr. & Pwr. Co.
 MILES CITY—City Wtr. & Lt. Dept. (City)
 MISSOULA—Missoula Light & Water Co.
 PHILLIPSBURG—Phillipsburg Granite Electric Light Co.
 RED LODGE—Northwestern Improvement Co.

NEBRASKA.

ALBION—Albion El. Lt. & Pwr. Plant
 ALLIANCE—Alliance Electric Co.
 ALMA—City El. Lt. Plant
 ANSLEY—Ansley Elec. Light & Power Co.
 ASHLAND—Ashland Lt., Mill & Pwr. Co.
 AUBURN—Auburn Mutual Lighting & Pr. Co.
 AURORA—Aurora Elec. Lt., Heat & Pr. Co.
 BEATRICE—Beatrice Elec. Co.
 BLAIR—Blair Electric Light & Power Co.
 BLUE SPRINGS—(See Wymore)
 CHARDON—Chardon Elec. Lt. & P. Co.
 COLUMBUS—Columbus El. Lt. Plant
 CRAWFORD—Crawford El. Lt. Plant
 CREIGHTON—Verdigris El. Lt. Co. (See Verdigris)
 CRETE—El. Lt. Plant
 DAVID CITY—El. Lt. Plant
 EDGAR—Edgar Lt. & Pwr. Co.
 FAIRBURY—Fairbury Lt. & Wtr. Co.
 FALLS CITY—City El. Lt. Plant (City)
 FREMONT—City El. Lt. & Wtr. Plant Fremont Gas & El. Lt. Co.
 FRIEND—City El. Lt. & Wtr. Co.
 FULLERTON—Fullerton El. Lt. & Pwr. Co.
 GENEVA—Geneva El. Co.
 GENOA—City El. Lt. Plant
 GOTHENBURG—Platte Valley Farm & Cattle Co.
 GRAND ISLAND—City El. Lt. Plant Grand Island El. Co.
 HASTINGS—City El. Lt. Plant
 HAVELOCK—Havelock El. Lt. Co.
 HEBRON—Hebron Lt., Pwr. & Heating Co.
 HOLDREDGE—Holdredge Lighting Co.
 HOOPER—El. Lt. Plant
 HUMBOLDT—Humboldt El. Lt. Plant
 HUMPHREY—Humphrey Elec. Lt. & Tel. Co.
 KEARNEY—Northwestern El. Htg. & P. Co.
 LEXINGTON—Lexington Mill & Elevator Co.
 LINCOLN—City El. Lt. Plant Lincoln Gas & Electric Light Co. Lincoln Traction Co.
 MCCOOK—McCook Electric Light Co.
 MADISON—City El. Lt. Plant
 MINDEN—Minden Edison Lt. & Pwr. Co.
 NEBRASKA CITY—Nebraska City Water & Light Co.
 NELIGH—The Neligh Mills
 NELSON—Nelson Lt., Pwr. & Heating Co.
 NORFOLK—Norfolk Elec. Light & Power Co.
 NORTH PLATTE—North Platte El. Lt. & P. Co.
 OMAHA—Omaha El. Lt. & Pwr. Co. Co.
 ORD—Ord El. Lt. Co.
 PAWNEE CITY—City Lt. & Wtr. Plant (City)
 PIERCE—Pierce El. Lt. Plant

PLATTSMOUTH—Nebraska Lighting Co.
 RED CLOUD—City El. Lt. Plant
 ST. PAUL—St. Paul El. Works
 SCHUYLER—Schuyler Elec. Lt. Plant (City)
 SEWARD—Town El. Lt. Plant (City)
 SIDNEY—Sidney El. Service Co.
 SOUTH OMAHA—Omaha El. Lt. & Pwr. Co. (See Omaha)
 STANTON—City Lt. & Wtr. Plant
 STROMSBURG—Stromsburg Electric Light, Heat & Power Co.
 SUPERIOR—Superior Elec. Light Co.
 SUTTON—Sutton Electric Light & Power Co.
 TECUMSEH—City El. Lt. & Wtr. Plant
 TEKAMAH—Tekamah Electric Light Co.
 UNIVERSITY PLACE—City El. Lt. Plant
 VERDIGRIS—Verdigris El. Lt. Co.
 WAHOO—El. Lt. Plant
 WAYNE—Municipal Wtr. & Lt. Plant
 WEST POINT—West Point El. Lt. & P. Co.
 WILBER—City Wtr., El. Lt. & Pwr. Plant
 WISNER—City El. Lt. Plant
 WYMORE—El. Service Co.
 YORK—York El. & Gas Co.

NEVADA.

CARSON—Nevada Pwr., Mining & Milling Co. (See Goldfield)
 TRUCKEE River General El. Co.
 GOLDFIELD—Nevada, California Pwr. Co.
 LAS VEGAS—Consol. Pwr. & Telephone Co.
 LOVELOCK—LoveLOCK Lt. & Pwr. Co.
 RENO—Reno Water, Light & Power Co.
 RHYOLITE—Nevada, California Pwr. Co.
 SPARKS—Reno Pwr., Lt. & Wtr. Co. (See Reno)
 TONOPAH—Nevada, California Pwr. Co.
 VIRGINIA CITY—Truckee River General Electric Co.
 WADSWORTH—Consol. Mining & Milling Co.
 WINNEMUCCA—Winnemucca Water & Lt. Co.

NEW HAMPSHIRE.

ALTON—Alton El. Lt. & Pwr. Co.
 AMHERST—Milford El. Lt. Co. (See Milford)
 ANTRIM—El. Lt. Plant
 ASHLAND—Ashland El. Lt. Co.
 BARTLETT—Goodrich Falls El. Co.
 BELMONT—Tilton El. Co. (See Tilton)
 BENNINGTON—(See Antrim)
 BERLIN—Berlin El. Lt. Co. Cascade El. Lt. & Power Co.
 BETHELEHEM—Bethlehem Electric Light Co.
 BOW—(See Manchester)
 BRADFORD—Bradford Electric Light Co.
 BRISTOL—Bristol Electric Light Co.
 CHARLESTOWN—Fall Mountain El. Lt. & P. Co.
 CLAREMONT—Claremont Pwr. Co. Co.
 COLEBROOK—Allen, Wm. F. Co.
 CONCORD—Concord El. Co.
 CONTOOCOOK—Contoocook El. Lt. Co.
 CONWAY—The Conway Chair Co.
 DERRY—Derry El. Lt. Co.
 DOVER—Twin State Gas & El. Co.
 ENFIELD—El. Lt. Plant
 EXETER—Rockingham County Lt. & Pwr. Co. (See Portsmouth)
 FARMINGTON—Cloutman, J. F. Lt. & P. Co.
 FRANKLIN—Franklin Lt. & Pwr. Co.
 GOFFSTOWN—Manchester Trac., Lt. & Pwr. Co. (See Manchester)
 GORHAM—Cascade El. Lt. & Pwr. Co.
 GREENVILLE—Greenville El. Lighting Co.
 GROVETON—Groveton El. Lt. Co.
 HAMPTON—Rockingham County Lt. & P. Co.
 HANOVER—Mascoma El. Lt. & Gas Co.
 HENNIKER—Hillsboro El. & Pwr. Co.
 HILLSBORO—Hillsboro El. Lt. & Pwr. Co.
 HINSDALE—Twin State Gas & El. Co. (See Brattleboro, Vt.)
 HOOKSET—(See Manchester Trac. Lt. & Pwr. Co.)
 HOPKINTON—Contoocook El. Lt. Co. Co.)
 HUDSON—Nashua Lt., Heat & Pwr. Co. (See Nashua)
 KEENE—(Keen) Citizens' El. Co. Nashua Keene Gas & Electric Co.
 LACONIA—Laconia El. Lighting Co.
 LAKEPORT—Laconia El. Lighting Co.
 LANCASTER—Jones & Linscott El. Co. Lancaster & Jefferson El. Lt. Co.
 LEBANON—Lebanon El. Lt. & Pwr. Co.
 LISBON—Lisbon Lt. & Pr. Co.
 LITTLETON—Littleton Water & Lt. Co. (City)
 MANCHESTER—Manchester Trac., Lt. & P. Co.
 MARLBORO—Marlboro El. Lt. Co. P. Co.
 MEREDITH—Meredith El. Lt. Co.
 MILAN—Cascade Lt. & Pwr. Co. (See Berlin)
 MILFORD—Milford Lt. & Pwr. Co.
 MILTON MILLS—El. Lt. Plant
 NASHUA—Nashua Lt., Heat & Pwr. Co.
 NEW BOSTON—New Boston El. Lt. Plant
 NEW HAMPTON—New Hampton El. Lt. & P. Co.

NEW MARKET—New Market El. Lt., Pwr. & Heat Co.
 NORTH CONWAY—Goodrich Falls El. Co. (See Intervale)
 PEMBROKE—Manchester Trac., Lt. & Pwr. (See Manchester)
 PENACOOK—Penacook El. Lt. Co.
 PETERBORO—City El. Lt., P. & Heat Plant
 PLYMOUTH—Plymouth El. Lt. Co.
 PORTSMOUTH—Rockingham Lt. & Pwr. Co.
 RAYMOND—Raymond El. Lt. Co.
 ROCHESTER—United Gas & Electric Co.
 RYE—Rockingham County Lt. & Pwr. Co.
 SALEM—Salem Lt., Heat & Pwr. Co.
 SALMON FALLS—Berwick & Salmon Falls El. Lt. Co. (See South Berwick, Me.)
 United Gas & El. Co. (See Dover)
 SOMERSWORTH—United Gas & El. Co.
 SUNAPEE—Sunapee El. Lt. & Pwr. Co.
 SUNCOOK—Manchester Trac., Lt. & P. Co.
 TILTON—Tilton Elec. Co. (See Manchester)
 WALPOLE—Fall Mountain El. Lt. & Pwr. Co.
 WARNER—Contoocook El. Lt. Co. (See Contoocook)
 WEST LEBANON—Mascoma El. Lt. & Gas Co. (See White River Junction, Vt.)
 WHITEFIELD—Whitefield El. Lt. Co.
 WILTON—Milford El. Lt. Co. (See Milford)
 WINCHESTER—Ashuelot Valley El. Lt., Heat & Pwr. Co. & Pwr. Co. Dept.
 WOLFBORO—Wolfboro Fire Precinct El. Lt.
 WOODSVILLE—Woodsville Aqueduct Co.

NEW JERSEY.

ALLENDALE—Rockland El. Co. (See Hellburn, N. Y.)
 ANDOVER—Borough El. Lt. Plant
 ASBURY PARK—Atlantic Coast El. Lt. Co.
 ATLANTIC CITY—Atlantic City El. Co.
 ATLANTIC HIGHLANDS—Borough Elec. Light Plant
 BAYONNE—Publ. Serv. Corpor. of N. J.
 BEDMINSTER—Bernards Wtr. Co. (See Bernardsville)
 BELLEVILLE—Publ. Serv. Corpor. of N. J.
 BELMAR—Atlantic Coast El. Lt. Co. (See Asbury Park)
 BELVIDERE—Warren Wood Working Co.
 BEVERLY—Cinnaminson El. Lt. Co. (Riverside)
 BLAIRSTOWN—Blair El. Lt. Co.
 BLOOMFIELD—Publ. Serv. Corpor. of N. J.
 BOONTON—Publ. Serv. Corpor. of N. J.
 BORDENTOWN—Bordentown El. Lt. & Mtr. Co.
 BOUNDBROOK—Public Service Corp. of N. J.
 BRANCHVILLE—Branchville Elec. Lt. Plant
 BRIDGETON—Bridgeton Elec. Co.
 BURLINGTON—Burlington El. Lt. & Pr. Co.
 CALDWELL—Public Service Corp. of N. J. (See Orange)
 OAMDEN—(City owns plant) (Publ. Serv. Corpor. of N. J.)
 CAPE MAY—Cape May Light & Power Co.
 CARLSTADT—Bergen County Gas & El. Co.
 CARTARET—Publ. Serv. Corpor. of N. J.
 CHATHAM—City El. Lt. Plant
 CHESTER—Public Service Corp. of N. J. (See Moorestown)
 CLAYTON—The Gloucester County El. Co. (See Pitman Grove)
 CLIFTON—Public Service Corp. of N. J. (See Passaic)
 COLLINGSWOOD—Public Service Corp. of N. J. (See Haddonfield)
 CRANBURY—Princeton Lt., Heat & Pwr. Co. (See Princeton)
 CRANFORD—Public Service Corp. of N. J. (See Elizabeth)
 DOVER—Dover Electric Light Co.
 DUNELLEN—Publ. Serv. Corpor. of N. J.
 EAST ORANGE—Public Service Corp. of N. J.
 EGG HARBOR—Atlantic County El. Co.
 ELIZABETH—Publ. Serv. Corpor. of N. J.
 ENGLEWOOD—Public Service Corp. of N. J. (See Hackensack)
 FANWOOD—Public Service Corp. of N. J.
 FLEMINGTON—Flemington Elec. Lt., Heat & Freehold—Freehold El. Lt. Co. P. Co. Manalapan Lt. Co.
 FRENCHTOWN—City El. Lt. Plant
 GARFIELD—Publ. Serv. Corpor. of N. J.
 GLASSBORO—Gloucester County El. Co. (See Pitman Grove)
 GLEN RIDGE—Public Service Corp. of N. J.
 GLOUCESTER—Publ. Serv. Corpor. of N. J.
 GUTTENBURG—Publ. Serv. Corpor. of N. J.
 HACKENSACK—Public Service Corp. of N. J.
 HACKETTSTOWN—Hackettstown Elec. Lt. Co. Kennedy El. Co.
 HADDON HEIGHTS—Public Service Corp. of N. J.
 HAMILTON—Publ. Serv. Corpor. of N. J.
 HAMMONTON—Hammonton El. Lt. Co.
 HARRISON—Publ. Serv. Corpor. of N. J.

- HASBROUCK HEIGHTS—Gas & El. Co. of Bergen County
 HIGHLANDS—Middlesex & Monmouth El. Lt., Heat & Pwr. Co. (See Keyport)
 HIGHTSTOWN—Elec. Lt. & Pwr. Co.
 HOBOKEN—Public Service Corp. of N. J. El. Dept.
 HOPEWELL—Princeton El. Lt. Ht. & P. Co.
 JERSEY CITY—Publ. Serv. Corpor. of N. J.
 KEYPORT—Middlesex & Monmouth El. Lt., Heat & Pwr. Co.
 LAKEWOOD—Lakewood Wtr., Lt. & Pwr. Co.
 LAMBERTVILLE—Lambertville Heat, Lt. & Pwr. Co.
 LITTLE FALLS—Public Service Corp. of N. J.
 LODI—Publ. Serv. Corpor. of N. J.
 LONG BRANCH—Consol. Gas Co. of N. J.
 MADISON—City El. Lt. Plant
 MANASQUAN—Point Pleasant El. Lt. & Pwr. Co. (See Point Pleasant)
 MATAWAN—Middlesex & Monmouth El. Lt., HORSEHEADS—Elmira Wtr. Lt. & R. R. Co. Ht. & P. Co., & Jersey Central Trac. Co.
 MAYS LANDING—Atlantic County El. Co. (See Egg Harbor)
 MERCHANTVILLE—Publ. Serv. Corp. of N. J.
 METUCHEN—Publ. Serv. Corpor. of N. J.
 MILLBURN—Millburn Elec. Co.
 MILLVILLE—Millville Elec. Lt. Co.
 MONTCLAIR—Public Service Corp. of N. J. (See Orange)
 MOORESTOWN—Publ. Serv. Corpor. of N. J.
 MORRISTOWN—Morris & Somerset El. Co.
 MOUNT HOLLY—Publ. Serv. Corpor. of N. J.
 NEWARK—Public Service Corp. of N. J.
 NEW BRUNSWICK—Publ. Serv. Corpor. of N. J.
 NEW EGYPT—New Egypt Elec. Lt. & Pwr. Co.
 NEWTON—Newton Gas & Electric Co.
 NUTLEY—Publ. Serv. Corpor. of N. J.
 OCEAN CITY—Ocean City Elec. Lt. Co.
 OCEAN GROVE—Ocean Grove Camp Meeting Association
 ORANGE—Publ. Serv. Corpor. of N. J.
 PALMYRA—Cinnaminson El. Lt. Co. (See Beverly)
 PASSAIC—Publ. Serv. Corpor. of N. J.
 PATERSON—Public Service Corp. of N. J.
 PERTH AMBOY—Publ. Serv. Corpor. of N. J.
 PHILLIPSBURG—Easton Gas & El. Co.
 PITMAN GROVE—Gloucester Co. Electric Co.
 PLAINFIELD—Publ. Serv. Corpor. of N. J.
 PLEASANTVILLE—Pleasantville El. Co.
 POINT PLEASANT—Point Pleasant Elec. Lt. & Pwr. Co.
 PRINCETON—Princeton Lt., Heat & Pwr. Co. University Power Co.
 RAHWAY—Publ. Serv. Corpor. of N. J.
 RARITAN—Public Service Corp. of N. J. (See Metuchen)
 RED BANK—Shore Elec. Co. (See Newark)
 RIDGEWOOD—Gas & Electric Co. of Bergen County. (See Hackensack)
 RIVERSIDE—Cinnaminson El. Lt. Co.
 RIVERTON—Cinnaminson El. Lt. Co. (See Riverside)
 ROCKAWAY—Rockaway El. Lt. & Imp. Co.
 ROSELLE—Public Service Corp. of N. J. (See Elizabeth)
 RUTHERFORD—Gas & El. Co. of Bergen Co.
 SALEM—Salem El. Co. (See Hackensack)
 SAYREVILLE—Sayreville El. Lt. & Pwr. Co.
 SEABRIGHT—Seabright El. Lt. Co. (See Red Bank)
 SEAOCAUCUS—Public Service Corp. of N. J. (See Hoboken)
 SEA ISLE CITY—Sea Isle City Elec. Light, Power & Water Co.
 SOMERVILLE—Publ. Serv. Corpor. of N. J.
 SOUTH AMBOY—Middlesex & Monmouth El. Lt., Heat & Pwr. Co. (See Keyport)
 SOUTH ORANGE—Publ. Serv. Corpor. of N. J.
 SPRINGFIELD—Milburn El. Co. (See Milburn)
 STANHOPE—Willsbrook El. Lt. Co.
 SUMMIT—Commonwealth Wtr. & L. Co.
 SUSSEX—Woodbourne El. Lt. & Pwr. Co.
 SWEDESBORO—The Gloucester County El. Co. (See Pitman Grove)
 TOMS RIVER—Toms River & Island Heights Elec. Lt. & Pwr. Co.
 TRENTON—Publ. Serv. Corpor. of N. J.
 UNION—Publ. Serv. Corpor. of N. J.
 VERONA—Public Service Corp. of N. J. (See Vineland)
 VINELAND—Boro. El. Lt. Plant (See Orange)
 WALLINGTON—Public Service Corp. (See Rutherford)
 WASHINGTON—Washington El. Co.
 WENONAH—(See Pitman Grove)
 WEST HOBOKEN—Public Service Corp. of N. J. (See Hoboken)
 WEST ORANGE—Public Service Corp. of N. J. (See Orange)
 WHARTON—Dover El. Lt. Co. (See Dover)
 WILLIAMSTOWN—Williamstown El. Co.
 WOODBINE—Woodbine Land & Imp. Co.
- WOODBIDGE—Cartaret El. Lt. & Pwr. Co. (See Cartaret)
 WOODBURY—Publ. Serv. Corpor. of N. J.
 WOODSTOWN—Woodstown Ice & Cold Storage Co.
- NEW MEXICO.**
 ALAMOGORDO—Alamogordo El. Lt. & Pwr. Plant
 ALBUQUERQUE—Albuquerque Gas, El. Lt. & P. Co.
 CARLSBAD—Public Utilities Co.
 CLAYTON—Clayton El. Lt. & Wtr. Supply Co.
 DEMING—Deming Ice & Electric Co.
 GALLUP—Gallup El. Lt. Co.
 LAS CRUCES—Las Cruces El. Lt. & Ice Co.
 LAS VEGAS—Las Vegas Ry. & Pwr. Co.
 RATON—Raton El. Lt. & Pwr. Co.
 ROSWELL—Roswell El. Lt. Co.
 SAN MARCIAL—The San Marcial El. Lt. Wks.
 SANTA FE—Santa Fe Water & Elec. Co.
 SILVER CITY—New Mex. Lt., Ht. & P. Co.
- NEW YORK.**
 ADAMS—Adams Elec. Light Co.
 ADDISON—Addison Elec. Lt. & Pwr. Co.
 AKRON—City El. Lt. Plant
 ALBANY—Albany Elec. Illuminating Co.
 ALBION—Albion Power Co.
 ALEXANDRIA BAY—St. Lawrence International El. R. R. & Land Co.
 AMITYVILLE—Amityville Elec. Light Co.
 AMSTERDAM—Edison El. Lt. & P. Co. Empire State Power Co.
 ANDOVER—Andover El. Pwr. & Lt. Co.
 ANTWERP—Antwerp El. Lt. Plant
 ATHENS—Sayre El. Co. (See Waverly)
 UPPER HUDSON El. Co. (Newburgh)
 ATTICA—Attica Wtr., Gas & El. Lt. Co.
 AUBURN—Auburn Light, Heat & Power Co.
 AVON—Avon El. Co.
 BABYLON—Babylon E. L. Co.
 BAINBRIDGE—Standard Lt., Heat. & P. Co.
 BALDWIN—Nassau Lt. & P. Co. (See Roslyn)
 BALDWINSVILLE—Oswego River Trans mission Co. (See Syracuse)
 Seneca River Pwr. Co.
 BALLSTON SPA—Ballston Spa Lt. & P. Co.
 BATAVIA—City El. Lt. Plant (City)
 Geesee County El. Lt., Pwr. & Gas Co.
 BATH—Bath Electric & Gas Light Co.
 BAY SHORE—Suffolk Gas & El. Co.
 BELMONT—Chasm Pwr. Co. (See Chateaugay)
 BINGHAMTON—Binghamton Light, Heat & BLACK RIVER—Jefferson Paper Co. P. Co.
 BOONVILLE—Boonville El. Lt. (City Plant)
 BRASHER FALLS—El. Lt. Plant
 BREWSTER—Juengst, Geo. & Sons. (See Croton Falls)
 BROOKPORT—Brookport El. Co.
 BROCTON—City El. Lt. Plant
 BROOKLYN—(See New York City, Borough of Brooklyn)
 BUFFALO—Buffalo General El. Co.
 Cataract Pwr. & Conduit Co. (Distributors of Niagara Falls Pwr.)
 Niagara, Lockport & Ont. Power Co.
 CAMBRIDGE—Consol. El. Co. (See Greenwich)
 CAMDEN—El. Lt. Plant. (M. P. Osborne)
 Town El. Lt. Plant
 CANAJOHARIE—Moutgomery El. Lt. & P. Co.
 CANANDAIGUA—Ontario Lt. & Trac. Co.
 CANASTOTA—Central New York Pwr. Co., 86 Lafayette, Utica N. Y.
 Madison County Gas & El. Co.
 CANDOR—Seely, S. A. Estate
 CANTON—Canton Elec. Light & Pwr. Co.
 CAPE VINCENT—City El. Lt. Plant
 CARTHAGE—Carthage Elec. L. & P. Co.
 CASTILE—El. Lt. Plant (City)
 CATSKILL—Catskill Illum. & Power Co.
 CATTARAUGUS—Cattaraugus El. Lt. & P. Co.
 CAZENOVIA—Cazenovia Electric Co.
 CHAMPLAIN—Champlain Electric Co.
 CHARLOTTE—Village Lt. & Wtr. Plant
 CHATEAUGAY—Chasm Pwr. Co.
 Chateaugay El. Lt. & Pwr. Co.
 CHATHAM—Chatham Elec. Lt., Heat & P. Co.
 CHESTER—Orange & Rockland El. Co. (See Monroe)
 CITY ISLAND—Westchester Lighting Co. (See New York City, Borough of Bronx)
 CLAYTON—Thousand Island El. Lt. & Pwr. Co. (Ltd.)
 CLIFTON SPRINGS—City El. Lt. Plant
 CLINTON—City El. Lt. Plant
 College Hill El. Lt. Co.
 Franklin Spr. El. Co.
 CLYDE—Wayne County Electric Co.
 COBLESKILL—Courter Elec. Co.
 COEYMANS—Atlantic Lt. & Pwr. Co.
 Upper Hudson El. Co.
 COHOES—Cohoes Gas Lt. Co.
 COLD SPRING—Cold Spring Lt., Ht. & P. Co.
- COLD SPRING HARBOR—Huntington Lt. & Pwr. Co.
 COOPERSTOWN—Clinton Mills Pwr. Co.
 CORINTH—Corinth Electric Light Co.
 CORNING—Corning Gas & Electric Co.
 CORNWALL—Hudson County Gas & El. Co.
 CORNWALL ON THE HUDSON—Hudson Counties Gas & El. Co.
 CORTLAND—Cortlandt City Trac. Co.
 COXSACKIE—Upper Hudson El. Co.
 CROTON ON HUDSON—Northern Westchester Lighting Co.
 DANSVILLE—Dansville Gas & El. Lt. Co.
 DELHI—Delhi Electric Co.
 DEPEW—The Depew & Lancaster Lt., Pwr. & Conduit Co. (See Lancaster)
 DEPOSIT—Deposit Electric Co.
 DEXTER—Dexter El. Lt. & Pwr. Co.
 DOLGEVILLE—Utica Gas & El. Co.
 DOVER PLAINS—Morgan & Wyman El. Lt. & DUNDEE—Dundee El. Lt. Plant P. Co.
 DUNKIRK—City El. Lt. Plant
 Dunkirk Pwr. & Heating Plant
 EARLVILLE—Earlvile El. Lt. Co.
 EAST AURORA—East Aurora Elec. Light Co.
 EAST HAMPTON—E. Hampton El. Lt. Co.
 EAST ROCHESTER—Eastern Monroe El. Lt. & Gas Co.
 EAST SYRACUSE—Syracuse Lighting Co.
 ELLENVILLE—Ellenville El. Co.
 Honk Falls Pwr. Co.
 ELMIRA—Elmira Water, Light & R. R. Co.
 FAIRPORT—Village El. Lt. Plant (City)
 FALCONER—Falconer El. Lt. Plant
 FAR ROCKAWAY—(See New York City, Borough of Queens)
 FAYETTEVILLE—Syracuse Elec. Light Co. (See Syracuse)
 FISHKILL ON THE HUDSON—Fishkill El. Ry. Co.
 Southern Dutchess Gas & El. Co.
 FLORAL PARK—Nassau Lt. & Pwr. Co.
 FLUSHING—(See New York City, Borough of Queens)
 FONDA—Cayadutta Generating Co.
 FORT EDWARD—United Gas El. & F. Co.
 FORT PLAIN—Fort Plain Gas & Elec. Light, Heat & Power Co.
 FRANKFORT—Town El. Lt. Plant (City)
 FRANKLINVILLE—Empire El. Co.
 FREDONIA—Buffalo & Lake Erie Trac. Co.
 City El. Lt. Plant
 FREEPORT—City El. Lt. Plant
 FULTON—Fulton Light, Heat & Power Co.
 FULTONVILLE—Cayadutta Generating Co.
 GENESEO—Geneseo Gas Lt. Co.
 GENEVA—Geneva-Seneca El. Co.
 GLEN COVE—Glen Cove Lt. & Pwr. Co.
 GLENS FALLS—Glens Falls Gas & El. Lt. Co.
 Hudson River Elec. Co.
 GLOVERSVILLE—Fulton County Gas & El. Co.
 GOSHEN—Goshen Lt. & Pwr. Co.
 GOUVERNEUR—Oswegatchie Lt. & Pwr. Co.
 GOWANDA—Keyes El. Co.
 GRANVILLE—Granville El. Lt. & Gas Co.
 GREAT NECK—Nassau Lt. & Pwr. Co. (See Roslyn)
 GREENEBURG—Westchester Lighting Co.
 GREENE—Greene Elec. Lt. Plant (City)
 GREEN ISLAND—City El. Lt. Plant
 GREENPORT—Village El. Lt. & Wtr. Plant
 GREENWICH—Consolidated Elec. Co.
 GROTON—Town El. Lt. Plant (City)
 HAMILTON—Hamilton Water & Light Plant (Village)
 HAMMONDSPORT—Hammondsport Electric Light Co.
 HANCOCK—Deposit El. Co. (See Deposit)
 HARRISON—Westchester Lighting Co. (See New Rochelle)
 HASTINGS—Westchester Lighting Co. (See Mount Vernon)
 HAVERSTRAW—Rockland Lt. & Pwr. Co.
 HEMPSTEAD—Nassau Lt. & Pwr. Co. (See Roslyn)
 HERKIMER—City Elec. Lt. Plant (City)
 Herkimer County Lt. & Pwr. Co.
 HICKSVILLE—Nassau Lt. & P. Co. (Roslyn)
 HIGHLAND—Poughkeepsie Lt., Heat & Pwr. Co. (See Poughkeepsie)
 HIGHLAND FALLS—Buttermilk Falls Elec. Co.
 HILLBURN—Rockland Elec. Co.
 HOLLEY—City El. Lt. Plant
 HOMER—Cortlandt & Homer El. Co.
 HONEOYE FALLS—Lima-Honeoye El. Lt. & R. R. Co.
 HOOSICK FALLS—Hoosick Falls Illg. Co.
 HORNELL—Hornell El. Co.
 HUDSON—Albany & Hudson R. R. Co.
 HUNTINGTON—Huntington Light & Power Co.
 HYDE PARK—Nassau Lt. & Pwr. Co. (See Roslyn)
 Poughkeepsie Lt., Heat & Pwr. Co. (See Poughkeepsie)

ILION—Village Elec. Light Plant.
INWOOD—Queens Borough Gas & El. Co. (See New York)
IRVINGTON—Westchester Lighting Co. (See Mount Vernon)
ITHACA—Ithaca El. Lt. & P. Co.
JAMAICA—New York & Queens El. Lt. & P. Co. (See New York City, Borough of Queens)
JAMESTOWN—Jamestown Lighting & Fr. Co. Municipal Electric Lighting Plant.
JOHNSTOWN—Fulton County Gas & El. Co. (City owns plant)
JORDAN—Jordan Elec. Light & Power Co.
KEESEVILLE—Keeseville Elec. Co.
KINGSTON—Kingston Gas & Electric Co.
LAKE PLACID—City El. Plant.
LANCASTER—Depew & Lancaster Light, Pwr. & Conduit Co. (See Troy)
LANSINGBURGH—Bacon El. Co. (See Troy)
LA SALLE—Niagara Falls Gas & El. Co. (See Niagara Falls)
LAWRENCEVILLE—El. Lt. Plant
LE ROY—Le Roy Hydraulic Elec. Co.
LESTERSHIRE—Binghamton Lt., Heat & Pwr.
LIBERTY—Liberty Lt. & Pwr. Co.
LINDENHURST—Babylon El. Lt. Co.
LITTLE FALLS—Utica Gas & El. Co.
LITTLE VALLEY—Town El. Lt. Plant (City)
LIVERPOOL—Syracuse Lighting Co.
LOCKPORT—Lockport Lt., Heat & Pwr. Co.
LONG ISLAND CITY—(See New York City, Borough of Queens)
LOWVILLE—Wetmore Electric Co.
LYNBROOK—Queens Borough Gas & El. Co.
LYONS—Wayne County Electric Co.
MALONE—Malone Light & Power Co.
MAMARONECK—Westchester Lighting Co. (See New Rochelle)
MANHATTAN BEACH—(See New York City, Borough of Brooklyn)
MANLIUS—Manlius El. Lt. Plant
MARATHON—Marathon El. Lt. Plant (City)
MARLBORO—Newburgh Lt., Heat & Pwr. Co. (See Newburgh)
MASSENA—Massena El. Lt. & Pwr. Co. St. Lawrence River Pwr. Co.
MATTEAWAN—Citizens' R. R. Lt. & Pwr. Co.
MAYVILLE—City El. Lt. Plant
MECHANICSVILLE—Halfmoon Lt., Heat & Pwr. Co. Mechanicsville Electric Light & Gas Co.
MEDINA—Swett, A. L. El. Lt. & Pwr. Co.
MEXICO—Mexico Elec. Lt. Co.
MIDDLEBURG—Middleburg & Shoharie Elec. Lt., Heat & Pwr. Co.
MIDDLEPORT—Albion Pwr. Co. (See Albion)
MIDDLETOWN—Orange County Lighting Co.
MIDDLEVILLE—El. Lt. Co.
MINEOLA—(See Roslyn)
MOHAWK—Herkimer County Lt. & Pwr. Co. Town El. Lt. Plant (See Little Falls)
MONROE—Orange & Rockland El. Co.
MONTICELLO—Murray Elec. Lt. & Pwr. Co.
MONTAUR FALLS—Montaur Falls Elec. Lt. Co.
MORAVIA—Moravia Elec. Co.
MORRISVILLE—Morrisville El. Lt. Co.
MOUNT KISCO—Westchester Lighting Co.
MOUNT MORRIS—Mount Morris Ilg. Co.
MOUNT VERNON—Westchester Lighting Co.
NANUET—Rockland Lt. & Pwr. Co. (See Nyack)
NEWARK—New Light, Heat & Power Co.
NEW BALTIMORE—Upper Hudson El. Co. (See Newburgh)
NEW BERLIN—New Berlin Light & Pwr. Co.
NEWBURGH—Newburgh Lt., Ht. & Pwr. Co. Upper Hudson Electric Co.
NEW HARTFORD—Utica Gas & El. Co. (See Utica)
NEW PALTZ—El. Lt. Co. of New Paltz
NEW ROCHELLE—Westchester Lighting Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Edison El. Ilg. Co., 358 Pearl Flatbush Gas Co., 819 Flatbush av

Boroughs of Manhattan & Bronx.

NEW YORK—American Lt. & Trac. Co., 40 Bronx Gas & El. Co., c Main & 2d Wall Brush El. Ilg. Co. (The), 55 Duane Great Western Pwr. Co. Long Acre Lt. & Pwr. Co., 30 Pine National Lt., Heat & Pwr. Co., 30 Pine New York Edison Co (The), 55 Duane North American Co. (The), 30 Broad Railways Company General, 30 Broad Westchester Lighting Co. of Mount Vernon

Borough of Queens.

FAR ROCKAWAY—Queens Borough Gas & El. Co., 347 Central av
LONG ISLAND CITY—New York & Queens El. Lt. & Pwr. Co., 244 Jackson av, L. I. City. (See Flushing)

Borough of Richmond.

NEW BRIGHTON—Richmond Lt. & R. R. Co., Jay st.

(End of New York City)

NIAGARA FALLS—Buffalo & Niagara Falls El. Lt. & Pwr. Co. Niagara Falls Gas & El. Co. Niagara Falls Hydraulic Power & Mfg. Co. Niagara Falls Power Co. Suburban Pwr. Co.
NORFOLK—Norwood El. Lt. & Pwr. Co. (See Norwood)
NORTHPORT—Northport Elec. Light Co.
NORTH TONAWANDA—Tonawanda Pwr. Co.
NORTHVILLE—Northville Elec. Lt. & P. Co.
NORWICH—Norwich Gas & Electric Co.
NORWOOD—Norwood Elec. Lt. & Pwr. Co.
NUNDA—Nunda Casket Co.
NYACK—Rockland Light & Power Co.
OGDENSBURG—Ogdensburg Power and Light Co.
OLEAN—Genesee Valley Power Co. Olean Electric Light & Power Co.
ONEIDA—Madison County Gas & Electric Co.
ONEONTA—Oneonta Elec. Lt. & Power Co.
OSSINING—Northern Westchester Light Co.
OSWEGO—People's Gas & Electric Co.
OTTO—Otto El. Lt. Co.
OVID—Ovid Electric Light Co.
OWEGO—Owego Light & Power Co.
OXFORD—Oxford Elec. Lt. Co.
OYSTER BAY—Oyster Bay El. Lt. & Pwr. Co.
PALMYRA—Palmyra Gas & Electric Co.
PATCHOGUE—Patchogue Elec. Light Co.
PEARL RIVER—Rockland Lt. & Pwr. Co.
PEEKSKILL—Peekskill Lighting & R. R. Co.
PENN YAN—City Electric Light Plant (City) Yates Electric Light & Power Co.
PERRY—Perry Elec. Light Co.
PHELPS—El. Lt. Plant
PHOENIX—Seneca River Power Co.
PIERMONT—Rockland Lt. & Pwr. Co. (See Nyack)
PITTSFORD—Despatch Heat, Lt. & Pwr. Co.
PLATTSBURG—Lozier Light & Power Co. Plattsburg Light, Heat & Power Co.
PLEASANTVILLE—Northern Westchester Ltg. Co. (See Ossining)
PORT CHESTER—Westchester Lighting Co. (See New Rochelle)
PORT HENRY—Port Henry Lt., Ht. & P. Co.
PORT JEFFERSON—Port Jefferson El. Lt. Co.
PORT JERVIS—Port Jervis El. Lt., Pwr., Gas & R. R. Co.
PORT WASHINGTON—Nassau Lt. & Pwr. Co.
POTSDAM—City El. Lt. Plant (See Roslyn) Hannawa Falls Wtr. Pwr. Co. Potsdam El. Lt. & Pwr. Co.
POUGHKEEPSIE—Poughkeepsie Lt., Ht. & P. Co.
PULASKI—Pulaski El. Lt. Co.
RANDOLPH—Randolph El. Lt. Plant
RAVENA—Atlantic Lt. & Pwr. Co. (See Newburgh) Upper Hudson El. Co.
RED HOOK—Red Hook Lt. & Pwr. Co.
RENSSELAER—Albany & Hudson Ry. Co.
RHINEBECK—Dutchess Lt., Ht. & Pwr. Co.
RICHFIELD SPRINGS—Richfield Springs Electric Light & Power Co.
RIVERHEAD—Hallett Bros. Electric Co. Riverhead Electric Light Co.
ROCHESTER—Rochester Railway & Lt. Co.
ROCKVILLE CENTER—Village Elec. Lt. Plant
ROME—Rome Gas, Elec. Lt. & Pwr. Co.
ROSENDALE—Houk Falls Pwr. Co. (See Ellenville)
ROSLYN—Nassau Light & Power Co.
ROUSES POINT—City El. Lt. Plant
RYE—Westchester Lighting Co. (See Mount Vernon)
SACKETTS HARBOR—Dexter El. Lt. & Pwr. Plant. (See Dexter)
SAG HARBOR—Sag Harbor El. Lt. & P. Co.
ST. JOHNSVILLE—East Creek Electric Light & Power Co. (East Creek)
ST. REGIS FALLS—St. Regis Lt. & Pwr. Co.
SALAMANCA—Salamanca Wtr. & Lt. Plant
SALEM—Peoples National Bank of Salem
SANDY HILL—United Gas, Elec. Light, & Fuel Co.
SARANAC LAKE—Paul Smith's El. Lt., Pwr. & R. R. Co.
SARATOGA SPRINGS—Saratoga Gas, Electric Light & Power Co.
SAUGERTIES—Ellister Electric Light, Heat & Power Co.
SAYVILLE—Sayville El. Co.
SCHAGHTICOKE—Schenectady Pwr. Co. Water Pwr. Plant

SCHENECTADY—Schenectady Ilg. Co.
SCHOHARIE—Middleburg & Schoharie El., Heat & Pwr. Co.
SCHUYLERSVILLE—Consolidated El. Co. (See Greenwich)
SCOTIA—Schenectady Ilg. Co. (See Schenectady)
SCOTTSVILLE—Scottsville El. Lt. & Gas Co.
SEA CLIFF—Nassau Lt. & Pwr. Co. (See Roslyn)
SENECA FALLS—Geneva-Seneca El. Co.
SHERBURNE—City El. Lt. Plant
SHERMAN—Sherman Elec. Light Co.
SHORTSVILLE—Ontario Lt. & Trac. Co. (See Canandaigua)
SILVER CREEK—People's El. Lt. & P. Co.
SKANEATELES—City El. Lt. Plant
SLOAN—Depew & Lancaster Lt., Pwr. & Conduit Co. (See Lancaster)
SODUS—Sodus Gas & El. Lt. Co.
SOUTHAMPTON—Suffolk Lt., Heat & P. Co.
SOUTH GLEN FALLS—United Gas, Electric
SPENCER—Seely, S. A. Light & Fuel Co. (See Nyack)
SPRING VALLEY—Rockland Lt. & Pwr. Co.
SPRINGVILLE—City Elec. Light Plant (City)
STAMFORD—West Branch Lt. & Pwr. Co.
STILLWATER—Halfmoon Light, Heat & Power
STOCKHOLM—El. Lt. Plant
SUFFERN—Rockland El. Ct. (See Hilburn)
SYRACUSE—Oswego River Pwr. Transmission Co., 724 University blk. Syracuse Lighting Co., 112 E. Jefferson
TARRYTOWN—Westchester Lighting Co.
THERESA—City Lighting Plant Theresa El. Lt. & Pwr. Co.
TICONDEROGA—Ticonderoga El. Lt. & P. Co.
TONAWANDA—Tonawanda Pwr. Co. (See N. Troy)
TROY—Beacon El. Lt. Co. Tonawanda Troy Gas Co.
TRUMANSBURG—Trumansburg El. Co.
TULLY—Village Elec. Lt. Plant (Village)
TUPPER LAKE—City El. Lt. Plant
TUXEDO PARK—Tuxedo Elec. Light Co.
UNADILLA—Standard Lt., Heat & Pwr. Co.
UNION—City El. Lt. Plant
VALATIE—Albany & Hudson R. R. Co.
WALDEN—Wallkill Valley Elec. Lt. & P. Co.
WALTON—Walton Electric Light Co.
WAPPINGERS FALLS—Village Electric Light Plant (City)
WARRENSBURG—Warrensburg El. Lt. Wks.
WARSAW—Warsaw Gas & Electric Co.
WARWICK—Warwick Valley Lt. & Pwr. Co.
WATERFORD—Waterford El. Lt., H. & P. Co.
WATERLOO—Geneva-Seneca El. Co. (See Seneca Falls)
WATERTOWN—Watertown Lt. & Pwr. Co.
WATERVILLE—Waterville Gas & El. Co.
WATERVLIET—City El. Lt. Plant (City) Glens Falls Gas & El. Lt. Co. (See Glens Falls)
WATKINS—City Wtr., Lt. & Sewerage Plant Watkins El. Lt. & Pwr. Co.
WAVERLY—Sayre El. Co. (Sayre, Pa.)
WAYLAND—Wayland El. Lt. & Pwr. Co.
WEEDSPORT—Weedsport Elec. Light Co.
WELLSVILLE—Wellsville El. Lt., H. & P. Co.
WESTFIELD—Village El. Lt. Plant (Village)
WEST SAYVILLE—Sayville El. Co.
WEST SENECA—Buffalo General El. Co.
WHITEHALL—Consolidated Lt. & Power Co.
WHITE PLAINS—Central El. Lt. & Pwr. Co. Westchester Lighting Co. (New Rochelle)
WHITESBORO—(See Utica Gas & El. Co.)
WOLCOTT—Wolcott Elec. Lt. & Pwr. Co.
WORCESTER—Worcester Electric Light Co.
YONKERS—Yonkers El. Lt. & Pwr. Co., 55 Duane, New York City

NORTH CAROLINA.

ASHBORO—Ashboro El. Co.
ASHEVILLE—Asheville Elec. Co. W. T. Weaver Power Co.
BURLINGTON—Village Electric Plant (City)
CHAPEL HILL—University of N. C. Elec. Light Plant
CHARLOTTE—Charlotte El. Ry., Lt. & Pwr. Co. Southern Pwr. Co.
CONCORD—Concord El. Lt. (City Plant)
DUNN—City El. Lt. & Wtr. Co.
DURHAM—Durham Traction Co.
EDENTOWN—City El. Lt. & Wtr. Wks.
ELIZABETH CITY—El. Lt. & P. Plant (City)
ELKIN—Elkin Elec. Light & Power Co.
FAYETTEVILLE—Carolina Lt. & Pwr. Co. (See Raleigh)
GASTONIA—Elec. & Water Works (City)
GOLDBORO—Elec. Light Plant (City)
GRAHAM—Graham Water & Elec. Co. Southern Public Service Corp., Bond bldg., Washington, D. C.
GREENSBORO—Greensboro El. Co.

GREENVILLE—Water & Light Plant (City)
 HENDERSON—Henderson Lighting & Power Co.
 HENDERSONVILLE—Hendersonville Lt. & P.
 HERTFORD—Albermarle Ice Co. Co.
 HICKORY—Thornton Light & Power Co.
 HIGH POINT—High Point Electric Power Co.
 Municipal El. Lt. Plant
 KINGS MOUNTAIN—City El. Lt. Plant
 KINSTON—Kinston Electric Light Plant (City)
 LAURINBURG—City El. Lt. Plant
 LENOIR—Lenoir Citizens' Light & Power Co.
 LEXINGTON—Lexington Wtr. & Lt. Plant
 LOUISBURG—City El. & Wtr. Plant
 MARION—Marion Lt. & Pwr. Plant
 MAXTON—Carolina Electric Co.
 MONROE—Monroe El. Lt. Plant
 MOORESVILLE—City El. Lt. & Pwr. Plant
 MOREHEAD—Elec. Light Plant (City)
 MORGANTOWN—Morgantown El. Lt. Plant
 (City)
 MOUNT AIRY—Town Elec. Light Plant (City)
 NEWBERNE—Newberne El. Lt. Plant (City)
 NEWTON—Newton Elec. Light Plant (City)
 NORTH WILKESBORO—El. Lt. & Pwr. Plant
 OXFORD—Water & Light Co. (City)
 RALEIGH—Carolina Lt. & Pwr. Co.
 Consumers Lt. & Pwr. Co. (See Sanford)
 Raleigh El. Co.
 REIDSVILLE—Reidsville Wtr. & Lt. Plant
 ROANOKE RAIDS—Roanoke Navigation &
 Wtr. Pwr. Co.
 ROCKINGHAM—Elec. Light Plant (City)
 Rockingham Pwr. Co.
 ROCKY MOUNT—Elec. Light Plant (City)
 ROPER—John L. Roper.
 SALEM—Fries Mfg. & Pwr. Co. (See Winston
 Salem)
 SALISBURY—Salisbury & Spencer Ry. Co.
 Whitney Co., The
 SANFORD—Consumers Lt. & Pwr. Co.
 SCOTLAND NECK—El. Lt. & Pwr. Plant
 SHELBY—Shelby Electric Light Co.
 Lily Mill. & Power Co.
 SOUTHERN PINES—R. L. Chandler Elec. Light
 Plant
 So Pines & Carthage Electric Light Works
 SPENCER—Salisbury & Spencer Ry. Co. (See
 Salisbury)

STATESVILLE—City Electric Light Plant
 TARBORO—Electric Light Plant (City)
 THOMASVILLE—Thomasville Lt. & Pwr. Co.
 WADESBORO—City El. Lt. Plant
 WASHINGTON—Washington Light & Water
 Plant (City)
 WAYNESVILLE—Hayward El. Power Co.
 WELDON—Roanoke Navigation & Wtr. Pwr.
 Co.
 WILMINGTON—Consolidated Ry., Light & Power
 Rockingham Power Co. Co.
 Tidewater Pwr. Co.
 WILSON—City Elec. Light Plant (City)
 WINSTON SALEM—Fries Mfg. & Power Co.

NORTH DAKOTA.

BISMARCK—Hughes Electric Co.
 BOTTINEAU—El. Lt. Plant
 CANDO—Cando El. Lt. & Telephone Co.
 CARRINGTON—Western El. Co.
 CASSELTON—Casselton Elec. Light Plant
 COOPERSTOWN—Platt El. Co.
 DEVILS LAKE—Devils Lake Improvement Co.
 DICKINSON—Dickinson Elec. Light Plant
 ENDERLIN—Enderlin El. Lt. & Pwr. Co.
 FARGO—Lt. & Wtr. Co.
 Union Lt., Heat & Pwr. Co.
 GRAFTON—City Lt. & Wtr. Co.
 GRAND FORKS—City Elec. Light Plant (City)
 Grand Forks Gas & Elec. Co.
 HILLSBORO—City El. Lt. Plant
 JAMESTOWN—Western El. Co.
 KENMARE—Kenmare Lt. & Pwr. Co.
 LANGDON—Langdon El. Lt. Co.
 LARIMORE—City El. Lt. Plant
 MANDAN—Mandan Electric Co.
 MAYVILLE—City El. Lt. Plant
 MINOT—Minot Lt. & Telephone Co.
 PARK RIVER—City El. Lt. & Wtr. Wks.
 RUGBY—Tompkins El. Co.
 VALLEY CITY—City Lt. & Wtr. Wks.
 WAHPETON—Northern Light Elec. Co.
 WILLISTON—City El. Lt. Plant

OHIO.

ADA—Ada Wtr., Heat & Light Co.
 AKRON—Northern Ohio Trac. & Lt. Co.
 ALLIANCE—Alliance Gas & Pwr. Co.
 ANTWERP—El. Lt. Plant
 ARCANUM—City El. Lt. & Wtr. Wks. Plant
 ARLINGTON—City El. Lt. Plant
 ASHLAND—Ashland Gas & El. Lt. Co.
 ASHTABULA—City El. Lt. Plant (City)
 ATHENS—Athens Light & Elec. Plant (City)
 BAINBRIDGE—Village El. Lt. & Wtr. Wks.
 Plant

BARBERTON—North. Ohio Trac. & Light. Co.
 BARNESVILLE—Barnesville Gas & E. L. Co.
 BATAVIA—City El. Lt. & Wtr. Wks.
 BEDFORD—Electric Light & Power Co.
 BELLAIRE—Bellaire Light & Power Co.
 BELLE CENTER—El. Lt. & Pwr. Plant
 BELLEFONTAINE—Elec. Light Plant (City)
 BELLEVUE—Bellevue El. Lt. Plant
 BELLEVUE—Bellevue Illg. & Pwr. Co.
 BEREA—City El. Lt. Plant & Wtr. Wks.
 BLANCHESTER—City El. Lt. Plant & Wtr.
 Works
 BLOOMDALE—Bloomdale El. Lt. Co.
 BLUFFTON—City El. Lt. & Wtr. Plant
 BOWLING GREEN—Lake Erie, Bowling Green
 & Napoleon Ry. Co.
 BRADFORD—Ohio Public Service Co.
 BRADNER—City El. Lt. Plant
 BRIDGEPORT—Bridgeport Elec. Lt. & Pr. Co.
 BRYAN—Bryan Water & Elec. Light Plant (City)
 BUCYRUS—Bucyrus Gas & Elec. Light Co.
 BURTON—Burton Electric Co.
 CADIZ—Cadiz Elec. Lt. & P. Co.
 CALDWELL—City El. Lt. & Wtr. Wks. Plant
 CAMBRIDGE—Cambridge P., Lt. & Trac. Co.
 CAMDEN—Camden Electric Light Co.
 CANAL DOVER—Beyer & Lieser El. Co.
 Tuscarawas County El. Lt. & Pwr. Co.
 (See New Philadelphia)
 CANAL FULTON—Massillon Lt., Heat & Pwr.
 CANTON—Canton El. Co.
 CARDINGTON—Cardington Elec. Light, Heat &
 Power Co.
 CAREY—Carey Elec. Light & Water Works (City)
 CARROLLTON—Carrollton Electrical Co.
 CARTHAGE—City Elec. Lt. Plant (City)
 CEDARVILLE—Cedarville Lt. & Pwr. Co.
 CELINA—Celina Elec. Light Plant (City)
 CHAGRIN FALLS—Chagrin Falls Elec. Co.
 CHARDON—El. Lt. Wks.
 CHICAGO JUNCTION—El. Lt. & Wtr. Wks.
 CHILLICOTHE—Chillicothe Elec. R. R., Lt. &
 P. Co.
 CINCINNATI—Cincinnati Gas & El. Co., 4th
 & Plum

CIRCLEVILLE—Circleville L. & Pr. Co.
 CLEVELAND—City El. Lt. Plant (City)
 Cleveland El. Illuminating Co.
 Cleveland Light & Power Co.
 Cuyahoga Lt. Co., 2035 E. 3d
 CLYDE—Village Elec. Lt. Plant (Village)
 COLLINWOOD—City El. Lt. Plant
 COLUMBIANA—Water & El. Lt. Plant
 COLUMBUS—Columbus Ry. & Lighting Co.
 Columbus El. Lt. Plant (City)
 Columbus Public Service Co.
 COLUMBUS GROVE—City El. Lt. Plant
 CONNEAUT—Municipal Elec. Lt. Plant (City)
 CONTINENTAL—Continental Electric Co.
 COSHOCTON—Coshocton Light & Heating Co.
 COVINGTON—Falls El. Co.
 CRESTLINE—Cantine, W. W. & Co.
 Crestline Ill. Co.
 CUYAHOGA FALLS—City El. Lt. & Wtr. Plant
 DAYTON—Dayton Lighting Co.
 Dayton Citizens' Electric Co.
 DEFIANCE—People's Gas & Elec. Co.
 DE GRAFF—Village Elec. Lt. Plant (Village)
 DELAWARE—Delaware El. Lt., Heat & Pwr.
 DELPHOS—Delphos El. Lt. & Pwr. Co. Co.
 DELTA—Delta Electric Light Co.
 DENNISON—United Electric Co.
 DESHLER—Deshler Lt. & Pwr. Plant
 DILLONVALE—Dillonvale Heat., Lt., Pwr. &
 Wtr. Co.
 DRESDEN—Dresden El. Lt. & Water Wks.
 Plant
 EAST LIVERPOOL—East Liverpool Lt. & Trac.
 Co.
 EAST PALESTINE—East Palestine Elec. Light
 Works (City)
 EATON—Eaton Elec. Lt., Power & Ice Mfg. Co.
 ELYRIA—Citizens' Gas & Electric Co.
 Ely Realty Co.
 Elyria Milling & Pwr Co.
 FINDLAY—Toledo, Urban & Interurban Ry.
 Co.

FOREST—Manufacturers' Lt. & Pwr. Co.
 FORT RECOVERY—City El. Lt. Plant
 FOSTORIA—City Heat & Light Co.
 FRANKFORT—City Elec. Lt. Plant
 FRANKLIN—Franklin Elec. Light Co.
 FREMONT—Fremont Yarijan Co.
 GALION—City El. Lt. Plant
 GALLIPOLIS—Gallipolis Gas & Coke Co.
 GARRETTSVILLE—Payne Electric Co.
 GENEVA—United Lt. & Pwr. Co.
 GEORGETOWN—City El. Lt. Plant
 Georgetown Electrical & Supply Co.
 GERMANTOWN—Germantown Elec. Plant (City)
 GIBSONBURG—Gibsonburg El. Lt. & Tele-
 phone Co.
 GIRARD—Youngstown Gas & El. Co. (See
 Youngstown)
 GRANVILLE—City Elec. Lt. Plant

GREENFIELD—Greenfield Water & Elec. Lt.
 Plant (City)
 GREENVILLE—Greenville Elec. Lt. & Power
 Plant (City)
 GREENWICH—Village El. Lt. Plant (Village)
 HAMILTON—Hamilton Electric Light Co.
 Town Electric Light Plant (City)
 HARRISON—Harrison Light & Water Co.
 HICKSVILLE—Hicksville Elec. Light Co.
 HILLSBORO—Hillsboro Lt. & Fuel Co.
 HOLGATE—Town El. Lt. & Wtr. Wks.
 HUBBARD—Village El. Lt. Plant (Village)
 HURON—City El. Lt. Plant (City)
 IRONTON—Camden Interstate Ry. Co.
 JACKSON—City El. Lt. Plant (City)
 JAMESTOWN—Jamestown El. Lt. Co.
 JEFFERSON—Jefferson Lt. & Power Co.
 KENT—Kent Water & Light & Pwr. Co.
 KENTON—Kenton Gas & Elec. Co.
 LAKEWOOD—Cleveland El. Illg. Co.
 LANCASTER—Lancaster Elec. Light Co.
 LA RUE—Slauser, J. A. Lumber Co.
 LEBANON—City El. Lt. Plant (City)
 LEETONIA—People El. Lt. & Pwr. Co.
 LEIPSIK—Leipsic Electric Light Co.
 LIMA—Lima & Toledo Trac. Co.
 LISBON—New Lisbon Gas Co.
 LOGAN—Citizens' Elec. Lt. Co.
 LONDON—City El. Lt. Plant (City)
 LORAIN—Citizens' Gas & El. Co.
 LOUDONVILLE—Village Elec. Lt. Plant
 LOVELAND—Loveland Citizens El. Co.
 LOWELLVILLE—City Elec. Lt. Plant
 LYNCHBURG—Village Elec. Lt. Plant (Village)
 McARTHUR—City El. Lt. Plant
 McCOMB—McComb El. Lt. Plant
 McCONNELLSVILLE—McConnellsville-Maita El.
 Co.
 MADISONVILLE—City El. Lt. & Wtr. Plant
 MALTA—McConnellsville-Malta El. Co.
 MANCHESTER—El. Lt. Plant (City)
 MANSFIELD—Mansfield Railway Light &
 Pwr. Co.
 MARIETTA—City El. Lt. Plant
 Parkersburg, Marietta & Interurban Ry. Co.
 MARION—The Col., Del. & Marion Ry. Co.
 MARTINS FERRY—Martin's Ferry Elec. Light
 Plant (City)
 MARYSVILLE—Marysville Light & Water Co.
 MASSILON—Massilon Light, Heat & Power Co.
 MAUMEE—Maumee Elec. Co.
 MECHANICSBURG—The Mechanicsburg Lt. &
 MEJINA—Medina El. Lt. Plant Pwr. Co.
 MIAMISBURG—Miamisburg El. Plant (City)
 MIDDLEPORT—Mutual Elec. Lt. Co.
 MIDDLETOWN—Middletown Elec. Lt. & P. Co.
 MILAN—City El. Lt. Plant (City)
 MILFORD—Cincinnati, Milford & Loveland
 Trac. Co.

MILFORD CENTER—Union Lt. & Wtr. Co.
 MILLERSBURG—Millersburg Elec. L. Co.
 MINERAL CITY—Village El. Lt. Plant
 MINERVA—Village Elec. Lt. Plant (Village)
 MINCO JUNCTION—Minco Junct. Lt. Co.
 MINSTER—City El. Lt. Plant
 MONROEVILLE—City El. Lt. & Wtr. Wks.
 MONTPELIER—Village Elec. Lt. Plant (Vil-
 lage)
 MORROW—People's Electrical Co.
 MOUNT GILEAD—Mount Gilead Wtr., Lt.,
 Heat & Pwr. Co.
 MOUNT STERLING—Mount Sterling Elec. Lt.
 & Wtr. Wks. (Village)
 MOUNT VERNON—Mt. Vernon Ry. & Lt. Co.
 NAPOLEON—Napolean Water Works & Elec.
 Light Plant (City)
 NAVARRE—Navarre El. Lt. Co.
 NELSONVILLE—Nelsonville Elec. Lt. Co.
 Town El. Lt. Plant (City)
 NEWARK—Licking Lt. & Pwr. Co.
 Municipal Elec. Lt. Plant (City)
 NEW BREMEN—New Bremen Elec. Lt. Co.
 NEW LEXINGTON—New Lexington El. Lt. &
 Pwr. Plant
 NEW LONDON—City El. Lt. Plant
 NEW PHILADELPHIA—Tuscarawas County
 El. Lt. & Pwr. Co.
 NEW RICHMOND—New Richmond Elec. Light
 & Water Works
 NEW STRAITSVILLE—Shawnee & Straitsville
 Elec. Lt. Co.
 NILES—Niles El. Lt. & Wtr. Wks. (City)
 NORTH AMHERST—(See Amherst)
 NORTH BALTIMORE—North Baltimore Elec.
 Lt. & Pwr. Co.
 NORWALK—The Cleveland & Southwestern
 Columbus Ry. Co.
 NORWOOD—Norwood Wtr. Wks. & El. Lt.
 Plant (Village)

OAK HARBOR—The Oak Harbor Elec. Co.
 OBERLIN—Oberlin Gas & Elec. Co.
 ORRVILLE—Orrville Lt., Heat & Pwr. Co.
 OSBORN—City Wtr. & El. Lt. Wks.
 OTTAWA—El. Lt. Co. of Ottawa
 OXFORD—(City owns the Plant)
 PAINESVILLE—City El. Lt. Plant (City)
 United Lt. & Pwr. Co.

PAULDING—City El. Lt. & Pwr. Dept.
 PAYNE—Payne El. Lt. & Pwr. Co.
 PERRYSBURG—Perrysburg El. Lt. Co.
 PERRYSVILLE—Perrysville Elec. Lt. Co.
 PIQUA—Miami Lt., Heat & Pwr. Co.
 PLAIN CITY—City El. Lt. & Wtr. Plant
 PLYMOUTH—City El. Lt. Plant
 POMEROY—Pomeroy & Middleport Elec. Co.
 PORT CLINTON—Port Clinton El. Lt. & P. Co.
 PORTSMOUTH—Portsmouth St. R.R. & Lt. Co.
 PROSPECT—Prospect El. Lt. & Pwr. Co.
 RAVENNA—Ravenna Gas & Elec. Lt. Co.
 READING—Wtr. Wks. & El. Lt. Plant
 RICHWOOD—Richwood Lt., Ht. & Pwr. Co.
 RIPLEY—Ripley Gaslight & Coke Co.
 ROCKFORD—Rockford Electric Lighting Co.
 ROCKY RIVER—Lakewood El. Lt. Plant
 SABINA—City Wtr. & Lt. Plant
 ST. BERNARD—St. Bernard Wtr. Wks. & El. Lt. Plant (Village)
 ST. CLAIRSVILLE—City El. Lt. Plant
 ST. MARYS—St. Marys El. Lt. Plant (City)
 ST. PARIS—St. Paris El. Lt. Plant (City)
 SALEM—Salem El. Lt. & Pwr. Co.
 SALINEVILLE—Salineville El. Lt., Ht. & P.
 SANDUSKY—Sandusky Gas & El. Co. Co.
 SEBRING—City Lt. & Pwr. Co.
 SHAWNEE—Peoples, The El. Lt. & Pwr. Co.
 SHELBY—City El. Lt. Plant
 SHERODSVILLE—Sherodsville El. Lt. Co.
 SHREVE—Citizens' Elec. Lt., Ht. & Pwr. Co.
 Shreve Electric Light & Power Co.
 SIDNEY—Kahs El. Lt. Plant
 Sidney El. Lt. Co.
 SPRINGFIELD—Peoples' Lt., Ht. & Pr. Co.
 Home Ltg., Pr. & Ht. Co.
 STEUBENVILLE—La Belle Iron Wks.
 Steubenville East Liverpool Ry. & Lt. Co.
 SYCAMORE—Village Elec. Lt. Plant
 TIFFIN—Consolidated Gas & Lt. Co.
 Tiffin Edison El. Illuminating Co.
 TIPPECANOE CITY—City Wtr. Wks. & El. Lt. Plant
 TOLEDO—Citizens Lighting & Heating Co., 6
 Toledo Rys. & Lt. Co. Zenobia bldg.
 TORONTO—Steubenville & East Liverpool Ry. & Lt. Co.

TROY—Troy Elec. Lt. Plant (City)
 UHRICHSVILLE—United Elec. Co. (Dennison)
 UPPER SANDUSKY—Citizens' Elec. Lt. & URBANA—Urbana Elec. Lt. Co. Pwr. Co.
 VAN WERT—Van Wert Public Service Co.
 VERSAILLES—Water Works & E. Lt. Plant (City)
 WADSWORTH—Wadsworth Lt. & Wtr. Co.
 WAPAKONETA—Village El. Lt. & Wtr. Wks.
 WARREN—Warren Water & Lt. Co. Plant
 WASHINGTON COURT HOUSE—Washington Gas & Electric Co.
 WAUSEON—Wauseon El. Lt. Plant
 WAVERLY—Waverly El. Lt. Plant (City)
 WELLINGTON—City El. Lt. Plant
 WELLSTON—City Elec. Lt. Plant (City)
 WELLSVILLE—East Liverpool Lt. & Trac. Co.
 Wellsville El. Lt. Co.
 WESTERVILLE—City El. Plant
 WEST LIBERTY—El. Lt. Plant
 WEST MANSFIELD—City El. Lt. Plant
 WEST MILTON—El. Lt. Plant
 WESTON—Weston El. Lt. Plant
 WILLIAMSBURG—City El. Lt. Plant
 WILLOUGHBY—Village Elec. Lt. Plant (Village)
 WILMINGTON—Wilmington Wtr. & Lt. Co.
 WOODSFIELD—Town El. Lt. Plant (City)
 WOODVILLE—Village Elec. Lt. Plant (Village)
 WOOSTER—Wooster Electric Co.
 WYOMING—Cincinnati Gas & El. Co.
 XENIA—Citizens' Lt. & Pr. Co.
 Peoples' Gas & El. Lt. Co.
 YOUNGSTOWN—The Shenango Valley El. Co.
 Youngstown Consolidated Gas & El. Co.
 ZANESVILLE—Zanesville Ry., Lt. & Pwr. Co.

OKLAHOMA

ADA—Ada El. & Gas Co.
 ALVA—Alva Lt. & Pwr. Co.
 ALDERSON—Choctaw Ry. & Lt. Co. (See ANADARKO—City El. Lt. Plant McAlester)
 ARDMORE—Ardmore Ice, El. Lt. & Pwr. Co.
 ATOKA—Atoka Ice & Pwr. Co.
 BLACKWELL—Blackwell Elec. Lt. & P. Co.
 BROKEN ARROW—Broken Arrow El. Lt. & OADDO—Caddo Lt. & Pwr. Co. Pwr. Co.
 CHANDLER—Stettmund El. Co.
 CHECOTAH—El. Lt. Plant
 CHICKASHA—Chickasha Lt., Heat & P. Co.
 Chickasha Wtr. Pwr. Co.
 CLEVELAND—Cleveland El. Lt. Plant
 CLINTON—Clinton Lt. & Pwr. Co.
 COLGATE—Colgate, Lehigh & Phillips El., Ice & Trac. Co.
 DUNCAN—Duncan Lt. & Ice Co.
 DURANT—Durant Ice & Lt. Co.

EL RENO—El. Reno El. & Gas Co.
 ENID—Elec. & Gas Co.
 FREDERICK—Foster-Harris Gin & El. Co.
 GEARY—Geary Lt. & Ice Co.
 GUTHRIE—The Guthrie Lt. & Pr. Co.
 HAILEYVILLE—Indianola Ice, Lt. & P. Co.
 HENNESSEY—Hennessey El. Lt., P. & Ice Co.
 HOBART—Hobart Lt. & Pwr. Co.
 KINGFISHER—Town Lighting Plant (City)
 KREBS—Choctaw El. Co. (See S. McAlester)
 LAWTON—Comanche Light & Power Co.
 LEXINGTON—Purcell Wtr. Co.
 McALESTER—Choctaw Ry. & Lt. Co.
 MADILL—Madill El. Co.
 MARLOW—City El. Lt. Plant
 MIAMI—Miami, Artesian Wtr. & Lt. Co.
 MUSKOGEE—Muskogee Gas & El. Co.
 NEWKIRK—City El. Lt. Plant
 NORMAN—Norman Milling & Grain Co.
 OKLAHOMA—Oklahoma Gas & Electrical Co.
 PAWNEE—City El. Lt. & Wtr. Plant
 PERKINS—Perkins El. Lt. & Pwr. Co.
 PERRY—City El. Lt. & Wtr. Plant
 PONCA—Ponca City Electric Light & Ice Mfg. Co.
 PRYOR CREEK—Pryor Creek Lt. Co. Co.
 PURCELL—Purcell Wtr. Co.
 ROFF—City Wtr., Lt. & Pwr. Plant
 SALLISAW—City El. Lt. Plant
 SAPULPA—Sapulpa Lt. & Pwr. Co.
 SHAWNEE—Shawnee Gas & El. Co.
 SHATTUCK—Shattuck El. Lt. & Pwr. Co.
 SHAWNEE—Shawnee Gas & El. Co.
 SNYDER—City El. Lt., Wtr. Wks. & Sewerage System
 SOUTH McALESTER—Choctaw Ry. & Lt. Co.
 STILLWATER—Electric Light & Water Works
 SULPHUR—Sulphur Lt. & Pwr. Co. (City)
 TAHLEQUAH—Tahlequah Lt. & Pwr. Co.
 TECUMSEH—Shawnee Gas & El. Co. (See Shawnee)
 TULSA—Tulsa Corp. (The), 1st. c Cheyenne
 VINITA—Vinita El. Lt., Ice & Pwr. Co.
 WAGONER—Wagoner Lt. & Pwr. Co.
 WATONGA—City El. Lt. Plant
 WYNNEWOOD—City El. Lt. & Wtr. Plant

OREGON.

ALBANY—Willamette Valley Co.
 ASHLAND—Ashland Elec., Pwr. & Lt. Co.
 ASTORIA—Astoria Electric Co.
 ATHENA—North Western Gas & El. Co.
 BAKER CITY—Baker Light & Power Co.
 Eagle River Electric Power Co.
 BROWNSVILLE—Brownsville El. Lt. Co.
 CORVALLIS—Willamette Valley Co.
 COTTAGE GROVE—Cottage Grove El. Co.
 DALLAS—Dallas Elec. Light Co.
 ENTERPRISE—Enterprise Elec. Lt. Co.
 EUGENE—Portland Gen. El. Co.
 Willamette Valley Co.
 FOREST GROVE—Haines El. Pwr. Co.
 GRANTS PASS—Rogue River El. Co. (See Medford)
 HEPPNER—Heppner Lt. & Water Co.
 HILLSBORO—City El. Lt. & Wtr. Wks.
 HOOD RIVER—Hood River Electric Light, Power & Water Co.
 INDEPENDENCE—Willamette Valley Co.
 KLAMATH FALLS—Klamath Falls Light & Klamath Lt. & Pwr. Co. Water Co.
 Moore, C. S. & R. S. Co.
 LA GRANDE—Grande Ronde Electric Co.
 LEBANON—Lebanon El. Light & Water Co.
 MC MINNVILLE—City El. Light Plant
 MARSHFIELD—Coos Bay Light & Power Co.
 MEDFORD—Rogue River El. Co.
 MILTON—City Elec. Light Plant (City)
 NEWBERG—Yamhill El. Co.
 NORTH BEND—Coos Bay Gas & El. Co. (See Marshfield)
 ONTARIO—Interstate Lt. & Wtr. Co.
 OREGON CITY—Portland General Electric Co.
 PENDLETON—Northwestern Gas & El. Co.
 PORTLAND—Mount Hood Ry. & Pwr. Co., 603
 Portland General El. Co. Switland bldg.
 Portland Ry. Lt. Pwr. Co.
 PRINEVILLE—Prineville Light & Water Co.
 ROSEBURG—Kendall, J. L. & S. A. El. Plant
 SALEM—Portland General El. Co.
 SCIO—City Elec. Light Plant (City)
 SILVERTON—Portland General El. Co. (See Stayton)
 STAYTON—Stayton El. Lt. Co. Portland)
 SUMPTER—Fremont Pwr. Co.
 Northwest Lt. & Wtr. Co.
 THE DALLES—Wasco Warehouse Milling Co.
 TILLAMOOK—Tillamook Lumbering Co.
 UNION—Union Electric Light Co.
 WESTON—North Western Gas & El. Co. (See Walla Walla, Washington)
 WOODBURN—Portland Gen. El. Co. (Portland)

PENNSYLVANIA.

ALBION—Albion Lt. & Pwr. Co.
 ALLEGHENY—Allegheny County Lt. Co. (See City El. Lt. Plant (City) Pittsburgh)
 Pennsylvania Light & Power Co.
 ALLEN—West Penn. El. Co. (See Pittsburgh)
 ALLENTOWN—Allentown El. Lt. & Pwr. Co.
 ALTOONA—Edison Elec. Ill. Co.
 Citizens' Electric Light, Heat & Power Co.
 AMBLER—Ambler El. Lt., Heat & Motor Co.
 ANNVILLE—Annville El. Lt. Co.
 APOLLO—Apolo El. Lt., Heat & Pwr. Co.
 ARCHBALD—Crescent El. Co.
 ASHLAND—Edson Electric Illuminating Co.
 ASHLEY—Wilkes-Barre Gas & El. Co. (See Wilkes-Barre)
 ASPINWALL—City El. Lt. & Wtr. Plant
 ATHENS—Waverly El. Lt. & Pwr. Co. (See Waverly, N. Y.)
 AVALON—Ohio Valley El. Co. (See Bellevue)
 AVOCA—Standard El. Lt., Heat & Pwr. Co.
 BANGOR—Bangor El. Lt., Heat & Pwr. Co.
 BEAVER—Valley El. Co. (See New Brighton)
 BEAVER FALLS—Valley El. Co. (See New Brighton)
 BEDFORD—Bedford El. Lt., Heat & Pwr. Co.
 BELLEFONTE—Bellefonte El. Co.
 BELLE VERNON—West Penn. El. Co.
 BELLEVUE—Ohio Valley El. Co.
 BELLWOOD—Bellwood El. Lt. Co.
 BERLIN—Berlin Electric Light Plant (City)
 BERWICK—Berwick El. Lt. Co.
 BETHEL—Blue Mountain El. Co.
 BETHLEHEM—Bethlehem El. Lt. Co.
 BIRDSBORO—Birdsboro El. Co.
 BLAIRSVILLE—Citizens' Heat, Lt. & P. Co.
 BLAKELY BOROUGH—Borough Electric Light Plant (City)
 BLOOMSBURG—Irondale El. Lt., Heat & P. United Gas & El. Co. Co.
 BLOSSBURG—Blossburg El. Lt. & Pwr. Co.
 BOLIVAR—Bolivar Lt., Heat & Pwr. Co.
 BOYERTOWN—Boyersburg El. Co.
 BRADDOCK—Allegheny County Light Co.
 BRADFORD—Bradford El. Lt. & Pwr. Co.
 BRIDGEPORT—Norristown El. Lt. & P. Co.
 BRIDGEWATER—Valley El. Co. (See New Brighton)
 BRISTOL—Publ. Serv. Corporation of N. J.
 BROOKVILLE—Solar El. Co.
 BROWNSVILLE—West Penn. El. Co.
 BUTLER—Butler Lt., Heat & Motor Co.
 CALIFORNIA—West Penn. El. Co.
 CAMBRIDGE SPRINGS—Cambridge Springs El. Lt. Co.
 CANONSBURG—Canonsburg El. Lt., Heat & CANTON—Canton Ill. Co. Pwr. Co.
 CARBONDALE—Lackawanna Valley Electric Light & Power Supply Co.
 CARLISLE—The Carlisle Gas & Water Co.
 CARNEGIE—Allegheny County Lt. Co. (See Southern Heat, Lt. & P. Co. Pittsburgh)
 CATASAUQUA—Lehigh & Northampton Lt., Heat & Pwr. Co.
 CATAWISSA—City El. Lt. Plant (City)
 CHAMBERSBURG—Chambersburg Elec. Light Plant (City)
 CHARLEROI—West Penn. El. Co.
 CHESTER—Beacon Lt. Co.
 CHRISTIANA—Melcher, A. J. (Owner)
 CLARION—Clarion El. Co.
 CLEARFIELD—Central Penn. Lt. & Pwr. Co.
 CLIFTON HEIGHTS—Citizens El. Lt. & P. Co.
 COALDALE—Panther Valley El. Lt., Heat & Pwr. Co.
 COALPORT—Coalport Lt., Heat & Pwr. Co.
 COATESVILLE—Coatesville El. Lt., Heat & Pwr. Co.
 Consumers' El. Lt., Heat & Pwr. Co.
 COLUMBIA—Columbia Elec. Lt. & Power Co.
 CONEMAUGH—City El. Lt. Plant
 CONFLUENCE—City El. Lt. Plant
 CONNELSVILLE—West Penn. Electric Co.
 CONSHOHOCKEN—Conshohocken Elec. Lt. & Pwr. Co.
 COPLAY—Lehigh-Northampton, Gas & El. Co. (See Catasauqua)
 CORAOPOLIS—City Electric Light Plant (City)
 CORY—Corry City Electric Light Co.
 COUDERSPORT—Home El. Co.
 CRAFTON—Allegheny County Lt. Co. (See Pittsburgh)
 CURWENSVILLE—Curwensville El. Co.
 DALLASTOWN—York & Windsor El. Lt. Co.
 DANVILLE—Standard El. Lt. Co.
 Town Electric Light Plant (City)
 DABBY—Philadelphia Suburban El. Co. (See DAWSON—West Penn. El. Co. Lansdowne)
 DELTA—Delta Electric Power Co.
 Delta Wtr. Pwr. Co.
 DERRY—West Penn. El. Co.
 DILLSBURG—Dillsburg Electric Light Works
 DONORA—West Penn. El. Co.

- DORRANCETOWN—West Side El. Co. (See Kingston)
- DOWNINGTOWN—Chester Valley El. Lt., Ht. & Power Co.
- DOYLESTOWN—Doylestown El. Co.
- DRAVOSBURG—West Penn. El. Co.
- DRIFTON—Hazelton Lt., Heat & Pwr. Co.
- DUBOIS—Dubois Trac. Co.
- DUNBAR—Dunbar El. Co.
- DUNCANNON—City El. Lt. Plant
- DUNCANVILLE—Edison El. Ilg. Co. (See Altoona)
- DUNMORE—Scranton El. Co.
- DUQUESNE—Allegheny County Lt. Co.
- EAST BANGOR—Bangor El. Lt. & Pwr. Co. (See Bangor)
- EAST DOWNINGTOWN—Chester Valley El. Lt., Heat & Pwr. Co. (See Downingtown)
- EAST MAUCH CHUNK—East Mauch Chunk Heat, Power & El. Light Co.
- EASTON—Easton Power Co.
City Electric Light Plant (City)
People's Cons. Serv. Corporation.
- EAST PITTSBURG—Allegheny County Lt. Co. (See Pittsburgh)
- EBENSBURG—Ebensburg Lt., Ht. & Pwr. Co.
- EDGEWOOD—Allegheny County Lt. Co. (See Pittsburgh)
- EDWARDSVILLE—West Side Electric Light Co.
Wyoming Valley Gas & El. Co. (See Plymouth)
- ELIZABETH—West Penn. El. Co. (See Pittsburgh)
- ELIZABETHTOWN—Elizabethtown & Marietta El. Lt. Co.
- ELLIOTT—Allegheny Lighting Co.
- ELLWOOD CITY—Ellwood El. Lt. Plant (City)
Penna. Pwr. Co.
- EMAUS—Allentown El. Lt. & Pwr. Co. (See Allentown)
- EMPORIUM—City El. Lt. Plant (City)
- EPHRATA—El. Power Plant
Town El. Lt. Plant (City)
- ERIE—Erie County Electric Co.
- ESPLEN—Allegheny County Light Co.
- ETNA—Town El. Lt. Plant
- EVERETT—Everett Lt., Heat & Power Co.
- EXETER—Citizens El. Ilg. Co. (See Pittston)
- FAIRCHANCE—West Penn. El. Co. (See Pittsburgh)
- FALLS CREEK—Dubois El. Co. (See Pittsburgh)
- FAYETTE CITY—West Penn. El. Co. (See Pittsburgh)
- FLEETWOOD—Allentown & Reading Trac. Co. (See Kutztown)
- FOREST CITY—Forest City El. Lt., Heat & Pwr. Co.
- FORD CITY—El. Lt. Plant
- FORTYFORT—City Elec. Lt. Plant.
- FRACKVILLE—Frackville & Gilberton Lt., Heat & Power Co.
- FRANKLIN—Franklin Elec. Co.
Leighton El. Lt. & Pwr. Plant. (See Leighton)
- FREEDOM—Valley El. Co. (See New Brighton)
- FREELAND—Edison El. Ilg. Co. (See Pittsburgh)
- GALLITZIN—Gallitzin Electric Light Co.
- GERMANTOWN—(See Philadelphia)
- GETTYSBURG—Keystone El. Lt. & Pwr. Co.
- GILLERTON—Frackville & Gilberton Lt., Ht. & Pwr. Co. (See Frackville)
- GIRARD—Town El. Plant (City)
- GIRARDVILLE—Frackville & Gilberton Lt., Ht. & Pwr. Co. (See Frackville)
- GLEN CAMPBELL—Giant El. Lt., Heat & Pwr. Co.
- GLEN LYON—Peoples El. Lt. & Pwr. Co. (See Nanticoke)
- GREENCASTLE—Greencastle Lt., Heat, Fuel & Pwr. Co.
- GREENSBURG—West Penn. El. Co. (See Pittsburgh)
- GREENEVILLE—Greeneville El. Lt., Heat & Pwr. Co.
- HALLSTEAD—Susquehanna County El. Co. (See Susquehanna)
- HAMBURG—Hamburg El. Co.
- HANOVER—Hanover Lt., Ht. & Power Co.
- HARRISBURG—Harrisburg Lt., Ht. & Pr. Co.
Paxtang Elec. Co.
- HASTINGS—Hastings El. Lt. Co.
- HATBORO—Hathoro Elec. Lt. Co.
- HAWLEY—Paupack Electric Co.
- HAZLETON—Consumers El. Lt. & Pwr. Co.
Edison El. Ilg. Co.
Harwood El. Pwr. Co.
- HIGHSPIRE—Steelton Lt., Heat & Pwr. Co. (See Steelton)
- HOLLIDAYSBURG—Hollidaysburg El. Lt. & Pwr. Co.
- HOMESTEAD—Allegheny County Light Co.
- HONESDALE—Honesdale Consol. Lt., Heat & Pwr. Co.
- HOUTZDALE—Houtzdale El. Lt., Ht. & P. Co.
- HUGHESTOWN—Standard El. Lt., Heat & P. Co. (See Avoca)
- HUGHESVILLE—Citizens' Elec. Lt. & Pr. Co.
- HUMMELSTOWN—Hummelstown Elec. Lt., Ht. & Power Co.
- HUNTINGDON—Huntingdon Gas Co.
Juniata Hydro El. Co.
Raystown Wtr. Pwr. Co., 309 Penn
Wilson El. Co.
- HYNDMAN—Hyndman El. Lt., Heat & P. Co.
- INDIANA—Indiana Provision Co.
- IRWIN—West Penn. El. Co.
- JANESVILLE—Harwood El. Pwr. Co. (See Hazelton)
- JEANETTE—W. Penn. El. Co. (See Pittsburgh)
- JENKINTOWN—Jenikintown Electric Light Co.
- JERMYN—Houshold El. Lt., Heat & P. Co.
Jermyrn Elec. Lt., Ht. & Power Co.
- JERSEY SHORE—Jersey Shore El. St. Ry Co.
- JESSUP—Blakely Boro City El. Lt. Plant. (See Blakely Boro)
- JOHNSONBURG—Johnsonburg El. Co.
- JOHNSTOWN—Citizens Lt., Heat & Pr. Co.
Dale Lt., Heat & Pwr. Co.
- KENNETT SQUARE—Cluster Co. El. Co. (See Philadelphia)
- KINGSTON—West Side El. Lt. Co.
- KITTANNING—Armstrong El. Co.
Kittanning El. Lt. Co.
- KUTZTOWN—Allentown & Reading Trac. Co.
Town El. Plant (City)
- LANCASTER—Edison El. Ilg. Co.
Lancaster Elec. Lt., Ht. & Power Co.
Lancaster County Ry & Lt. Co.
Safe Harbor Wtr. & Pwr. Co.
- LANGHORNE—Langhorne Elec. Lt. & Pwr. Co.
- LANDSDALE—Lansdale Elec. Lt. Plant (City)
- LANDSDOWNE—Phila. Suburban El. Co.
- LANSFORD—Lehigh Coal & Navigation Co.
Panther Valley El. Lt., Ht. & P. Co.
- LATROBE—West Penn. El. Co.
- LEBANON—Edison Elec. Illuminating Co.
- LEECHBURG—Pittsburg & Allegheny Valley Ry. Co.
- LEIGHTON—Leighton El. Lt. & Pwr. Co.
- LEWISBURG—Lewishurg Lt., Ht. & Power Co.
- MALVERN—Ridley Creek Supply Co.
- MANHEIM—Manheim & Mount Joy El. Lt. Co.
- MANOR—West Penn. El. Co. (See Pittsburgh)
- MANSFIELD—Mansfield Elec. Co.
- MARIETTA—Elizabethtown & Marietta El. Lt. Co. (See Elizabethtown)
- MARYSVILLE—Marysville El. Lt., H. & P. Co.
- MAUCH CHUNK—Mauch Chunk Heat, Power & Electric Light Co.
- MAYFIELD—Houshold El. Lt. & P. Co. (See Lewistown)
- MEADVILLE—Mifflin County Gas & El. Co.
- LIGONIER—Ligonier El. Lt. Co.
- LITITZ—Lititz Elec. Lt., Ht. & Power Co.
- LITTLESTOWN—Hanover Lt., Heat & P. Co.
- LOCK HAVEN—Lock Haven El. Lt. & P. Co.
- LUZERNE—West Side El. Lt. Co.
- LYKENS—Williams Valley Lt., Ht. & Power Co.
- McADOO—Consumers Lt. & Pwr. Co.
- McCALL FERRY—McCall Ferry Pwr. Co.
- McDONALD—Citizens El. Lt., Ht. & P. Co.
- McKEESPORT—Allegheny County Lt. Co.
Peoples Ice, Lt. & Storage Co.
- McKEES ROCKS—Allegheny County Lt. Co.
- McSHERRYSTOWN—Hanover Lt., Ht. & P. Co.
- MAHANAY CITY—Mahanoy City Elec. Lt., Ht. & Pwr. Co. (See Jermyrn)
- MEADVILLE—People's Incandescent Lt. Co.
Meadville Town El. Lt. Plant (City)
- MECHANICSBURG—United El. Co.
- MEDIA—Media Elec. Lt., Ht. & Power Co.
Media Town Electric Light Plant (City)
- MEYERSDALE—Meyersdale El. Lt., Ht. & P. Co.
- MIDDLETOWN—City El. Lt. Plant (City)
- MIFFLINTOWN—Juniata Co.
- MILLERSBURG—Millersburg El. Lt., Ht. & P. Co.
- MILLERSTOWN—Perry El. Lt., Heat & Pwr. Co. (See Newport)
- MILLVALE—Wtr. & Lt. Plant (City)
- MILNESVILLE—Harwood El. Pwr. Co.
- MILTON—Milton El. Lt. & Pwr. Co.
- MINERSVILLE—Edison El. Co.
- MINOOKA—Standard El. Lt., Heat & P. Co.
- MONACA—Monaca El. Lt. Co. (See Avoca)
- MONESSEN—West Penn. El. Co. (See Pittsburgh)
- MONONGAHELA CITY—West Penn. El. Co.
- MONTGOMERY—Montgomery El. Lt. & P. Co.
- MONTGOMERYVILLE—Montgomery El. Lt. Co.
- MONTROSE—Montrose El. Lt., Ht. & P. Co.
- MOOSIC—Standard El. Lt., Heat & Pwr. Co. (See Avoca)
- MORRIS RUN—Morris Run Mines.
- MORRISVILLE—Publ. Serv. Corp. of N. J. (See Trenton, N. J.)
- MORTON—Phila. Suburban El. Co.
- MOUNT CARMEL—Edison El. Ilg. Co.
- MOUNT HOLLY SPRINGS—Mt. Holly Paper Co.
- MOUNT JOY—Elizabeth & Marietta El. Lt. Co. (See Marietta)
- Manheim El. Lt. & Ht. Co. (Manheim)
- MOUNT OLIVER—(See Knoxville El. Co., Pittsburgh)
- MOUNT PLEASANT—West Penna. El. Co.
- MOUNT UNION—Mount Union Lt. & Pwr. Co.
- MUNCY—Muncy Lt., Ht. & Power Co.
- MYERSTOWN—Edison El. Ilg. Co. (See Lebanon)
- NANTICOKE—Wyoming Valley Gas & El. Co.
- NAZARETH—Nazareth Elec. Lt. & Power Co.
- NESQUEHONING—Panther Valley El. Lt., Heat & Pwr. Co. (See Lansford)
- NEW BRIGHTON—Valley Elec. Co.
- NEW CASTLE—New Castle Elec. Co.
- NEW CUMBERLAND—United El. Co.
- NEWHAVEN—West Penn. El. Co. (See Pittsburgh)
- NEW HOPE—New Hope El. Co. (See Pittsburgh)
- NEW KENSINGTON—Allegheny Valley Lt. Co.
- NEWPORT—Perry Elec. Lt., Ht. & P. Co.
- NEWTOWN—Bucks County El. Ry Co.
- NOBLESTOWN—Citizens El. Lt., Heat & Pwr. Co. (See McDonald)
- NORRISTOWN—Norristown El. Lt. & P. Co.
Norristown El. Lt. Plant (City)
- NORTH BRADDOCK—Allegheny County Lt. Co. (See Pittsburgh)
- NORTH EAST—North East Elec. Lt. & P. Co.
- NORTHUMBERLAND—Middle Creek El. Co.
- NORTH WALES—Freed. E. K. El. Lt. Co.
- NORWOOD—Citizens El. Lt. & Pwr. Co.
- OAKDALE—Citizens El. Lt., Heat & Pwr. Co. (See McDonald)
- OAKMONT—Allegheny Lt. Co.
- OIL CITY—Citizens Trac. Co.
- OLD FORGE—Standard El. Lt., Ht. & P. Co.
- OLYPHANT—Town El. Lt. Plant (City)
- ORWIGSBURG—Edison El. Ilg. Co. (See Pottsville)
- OSCEOLA MILLS—Phillipsburg El. Lt., Gas, Pwr. & Heating Co. (See Phillipsburg)
- OXFORD—Oxford Elec. Lt. & Power Co.
- PALMYRA—Annville El. Lt. Co. (See Annville)
- PARKESBURG—Parkesburg Elec. Lt., Ht. & Pwr. Co.
- PARNASSUS—New Kensington El. Lt. & Pwr. Co.
- PARSONS—Standard El. Co.
- PATTON—Geo. S. Good El. Lt. Co.
- PECKVILLE—Borough of Blakely El. Lt. Plant. (See Blakely Boro.)
- PEN ARGYLE—Pen Argyle El. Co.
- PENNSBURG—City El. Lt. Plant
- PERKASIE—City El. Lt. Plant
- PHILADELPHIA—American Gas & El. Co., 62 Cedar, New York
American Rys. Co., 904-13 Witherspoon bldg.
Chester County El. Co.
Interstate Rys. Co. (United Pwr. & Trans. Co.), 515 Mariner & Merchant bldg.
Phila. El. Co., 10th & Chestnut
Southern Pub. Serv. Corp., Land Title bldg.
West Penn. Electric Co.
- PHILIPSBURG—Phillipsburg El. Lt., Gas, Ht. & Pwr. Co.
- PHOENIXVILLE—Phoenix Gas & El. Co.
- PINEGROVE—(See Tremont)
- PITCAIRN—Allegheny County Light Co. (See City Elec. Lt. Plant (City) Pittsburgh)
- PITTSBURG—Allegheny County Light Co., 610 Duquesne Lt. Co., 6302 Penn av. Wood
Kettenburg, G. W. El. Lt. Plant, 1206 Penn av.
Knoxville El. Co.
Philadelphia Co., 610 Wood
West Penn. El. Co.
- PITTSBURG—Citizens El. & Ilg. Co.
- PLYMOUTH—Wyoming Valley Gas & Elec. Co.
- PORT CARBON—Port Carbon El. Lt., Heat & Pwr. Co.
- POTTSTOWN—Pottstown Lt., Heat & P. Co.
- POTTSVILLE—Edison El. Ilg. Co.
- PROSPECT PARK—Citizens El. Lt. & P. Co.
- PUNXSUTAWNEY—Jefferson Electric Light Co. (See Heat & Power Co.)
- QUAKERTOWN—Borough Elec. Light Plant
- RANKIN—Allegheny County Light Co.
- READING—Metropolitan Electric Co.
- RED LION—York & Windsor El. Lt. Co. (See Dallastown)
- RENOVA—Renova Edison Lt., Ht. & Pwr. Co.
- REYNOLDSVILLE—Reynoldsville Lt. & Pwr. Co.
- RIDGWAY—Ridgway Elec. Lt. Co.
- RIDLEY PARK—(See Chester)
- ROARING SPRING—Roaring Spring Blank Book Co.
- ROCHESTER—Valley El. Co. (See New Brighton)
- ROCKWOOD—Rockwood Elec. Lt. Co.
- ROSCOE—West Penn. El. Co.
- ROSETO—Bangor El. Lt., Heat & Pwr. Co. (See Bangor)
- ROYERSFORD—Phoenix Gas & El. Co.
- ST. CLAIR—Borough El. Lt. Plant (Borough)
- ST. MARYS—St. Marys El. Co.
- SAYRE—Sayre El. Co. (See Waverly, N. Y.)
- SCHUYLKILL HAVEN—Village Elec. Light Plant (Village)

SCOTTTDALE—West Penn. El. Co.
 SCRANTON—Lackawanna Lt. Co.
 Scranton El. Co.
 SELINSGROVE—Middle Creek El. Co. (See Sunbury)
 SELLERSVILLE—Sellersville El. Lt. & P. Co.
 SEWICKLEY—Sewickley Electric Co.
 SHAMOKIN—Shamokin & Coal Township Lt., Heat & Pwr. Co.
 SHARON—Youngstown-Sharon Ry. & Lt. Co.
 SHARON HILL—Citizius El. Lt. & Pwr. Co. (See Clifton Heights)
 SHARPSBURG—City El. Lt. Plant
 SHARPSVILLE—Sharpsville El. Lt. Co.
 SHENANDOAH—Citizens' El. Lt. Co.
 Peoples Lt. Heat & Pwr. Co.
 Shenandoah Elec. Illuminating Co.
 Shenandoah Heat & Pwr. Co.
 SHERIDAN—Allegheny County Lt. Co.
 SHICKSHINNY—Municipal Electric Light Plant
 SHIPPENSBURG—Shippensburg Gas & El. Lt. Co.
 SLATINGTON—Slatington Pwr. Co.
 SOMERSET—Somerset E. L. Heat & Pr. Co.
 SOUDERTON—City El. Lt. Plant
 SOUTH BETHLEHEM—S. Bethlehem El. Lt. Co.
 SOUTH FORK—South Fork Electric Light, Heat & Power Co.
 SOUTH WILLIAMSPORT—Lycoming El. Co.
 SPEERS—Monongahela Val. El. Co. (Charlerol)
 SPRING CITY—Phoenix Gas & El. Co.
 STEELTON—Steelton Lt., Heat & P. Co.
 STRASBURG—Strasburg El. Lt., Ht. & P. Co.
 STROUDSBURG—Stroudsburg El. Lt. & P. Co.
 STURGEON—Citizens El. Lt., Heat & Pwr. Co. (See McDonald)
 SUMMIT HILL—Panther Valley El. Lt., Ht. & P. Co.
 SUNBURY—Edison El. Ilg. Co.
 Middle Creek El. Co.
 SUSQUEHANNA—Susquehanna County Elec. Co.
 SWARTHMORE—Phila. & Suburban El. Co.
 TACONY—Philadelphia El. Co. (See Morton)
 TAMAQUA—Eastern Penn. Ry. Co.
 Tamaqua Lt., Heat & Pwr. Co.
 TARENTUM—Borough El. Lt. Plant (Borough)
 TAYLOR—Standard El. Lt., Ht. & Pwr. Co.
 TITUSVILLE—City El. Lt. Plant
 Titusville El. Lt. & Pr. Co.
 TOWANDA—Towanda Elec. Ilg. Co.
 TOWER CITY—Williams Val. Lt., Ht. & P. Co.
 TREMONT—Tremont & Pine Grove Elec. Lt. & Pwr. Co.
 TREVORTON—Trevorton El. Lt. & Pwr. Co.
 TROY—Troy El. Lt., Heat & Pwr. Co.
 TUNKHANNOCK—Tunkhannock Elec. Co.
 TURTLE CREEK—Allegheny County Lt. Co. (See Pittsburgh)
 TYRONE—Home Elec. Lt. & Steam Htg. Co.
 UNION CITY—Union City El. Lt. & Pr. Co.
 UNIONTOWN—United Light Co.
 UPLAND—Beacon Lt. Co.
 UPPER LEHIGH—Hazleton El. Lt. & P. Co.
 VANDERBILT—West Penn. El. Co. (See Pittsburgh)
 VANDERGRIFT—Vandergrift El. Lt. & P. Co.
 WARREN—Warren El. Lt. Co.
 WASHINGTON—Washington El. Lt. & P. Co.
 West Penn. El. Co.
 WATSONTOWN—Municipal Elec. Lt. Plant
 WAYNE—Merion & Radnor Gas & El. Co.
 WAYNESBORO—Waynesboro E. L. & Pwr. Co.
 WAYNESBURG—Waynesburg El. Lt. & P. Co.
 WEATHERLY—City El. Lt. Plant
 WEISSPORT—Weissport Elec. Light & Pr. Co.
 WELLSBORO—Wellsboro Elec. Co.
 WEST BERWICK—West Berwick Lt., Heat & Pwr. Co.
 WEST CHESTER—Edison El. Ilg. Co.
 WEST CONSHOHOCKEN—Conshohocken Elec. Lt. & Pwr. Co.
 WEST FAIRVIEW—United El. Co. (See Mechanicsburg)
 WEST GROVE—Chester County El. Co. (See Phila.)
 WEST NEWTON—Borough El. Lt. Co.
 WEST PITTSBURG—Citizens El. Ilg. Co.
 WHITE HAVEN—White Haven Elec. Ilg. Plant (W. J. Hauser, Owner)
 WICONISCO—Williams Valley Lt., Heat & P. Co. (See Lykens)
 WILKES-BARRE—Wilkes-Barre Gas & El. Co.
 WILKINSBURG—Allegheny County Lt. Co. (See Pittsburgh)
 WILLIAMSPORT—Citizens' El. Co.
 Edison Elec. Ilg. Co.
 Lycoming Elec. Co.
 WILLIAMSTOWN—Williams Valley Lt., Ht. & Pwr. Co.
 WILMERDING—Allegheny County Lt. Co. (Pittsburg)
 WINDBER—Windber Electric Co.
 WRIGHTSVILLE—Wrightsville Lt. & Pwr. Co.
 YEAGERTOWN—Lewistown Lt., Ht. & P. Co.
 YORK—York & Windsor El. Lt. Co. (See Edison El. Lt. Co. Dallastown)
 Merchants' El. Lt., Heat & P. Co.
 ZELIENOPLE—Zelienople Lt. & Pwr. Co.

PHILIPPINE ISLANDS.

CEBU—Visayan El. Co.
 MANILA—Manila El. R. R. & Lt. Co.

PORTO RICO.

COMERIO—Comerio Pwr. Co.
 MAYAGUEZ—Mayaguez Lt. & Pwr. Co.
 PONCE—Ponce El. Co.
 S. A. Luz Electrica
 Ponce Ry. & Lt. Co.
 SAN JUAN—Porto Rico Pwr. & Lt. Co.
 Porto Rico Rys. Co. (Ltd.)
 San Juan Lt. & Trans. Co.

RHODE ISLAND.

BRISTOL—Bristol County Gas & Elec. Co.
 CENTRAL FALLS—Pawtucket El. Co.
 CRANSTON—Narragansett El. Co.
 EAST GREENWICH—Narragansett El. Lt. Co.
 EAST PROVIDENCE—Narragansett El. Light-
 MIDDLETOWN—Newport Ilg. Co. ing Co.
 NARRAGANSETT PIER—Narragansett Pier
 Electric Light & Power Co.
 NEWPORT—Newport & Fall River Street Ry.
 PASCOAG—City El. Lt. Plant
 PAWTUCKET—Attleboro Steam & El. Co.
 Pawtucket El. Co.
 PEACEDALE—Narragansett Pier El. Lt. & P. Co.
 PROVIDENCE—Narragansett El. Lighting Co.
 RIVER POINT—Peoples Edison Ilg. & P. Co.
 WAKEFIELD—Narragansett Pier El. Lt. & P. Co.
 WARREN—Narragansett El. Lt. Co.
 WARWICK—Narragansett El. Lt. Co.
 WESTERLY—Westerly Lt. & Pwr. Co.
 WICKFORD—Wickford Lt. & Wtr. Co.
 WOONSOCKET—Woonsocket El. Mach. & P. Co.

SOUTH CAROLINA.

ABBEVILLE—Abbeville Wtr., Lt. & Pwr. Co.
 AIKEN—Carolina Light & Power Co.
 ANDERSON—Anderson Water, Lt. & Pwr. Co.
 BAMBURY—City El. Lt. Plant
 BATESBURG—City El. Lt. Plant
 BENNETTSVILLE—Town El. Plant (City)
 BISHOPVILLE—City Lt. & Pwr. Plant
 BLACKVILLE—Blackville Lighting Co.
 BRANCHVILLE—Branchville El. & Tel. Co.
 CAMDEN—Camden Water, Lt. & Ice Co.
 CHARLESTON—Charleston Consolidated Ry., Gas & Electric Co.
 CHERAW—Town El. Lt. Plant (City)
 CHESTER—Southern Pwr. Co.
 CLINTON—City El. Lt. Plant
 CLOVER—Catawba Pwr. Co.
 COLUMBIA—Columbia El. St. Ry., Lt. & P. Co.
 DARLINGTON—Carolina Wtr., Lt. & Pwr. Co.
 DILLON—Carolina Wtr., Lt. & Pwr. Co.
 City El. Lt. Plant
 FLORENCE—Southern Public Service Corp.
 FORT MILL—Catawba Pwr. Co.
 Fort Mill El. Co.
 GAFFNEY—Town El. Lt. Plant (City)
 GEORGETOWN—Georgetown Elec. Light Co.
 GLENDALE—Spartanburg Ry., Gas & El. Co.
 GRANITEVILLE—Carolina Lt. & Pwr. Co.
 GREENVILLE—Greenville-Carolina Pwr. Co.
 Greenville Gas, El. Lt. & Pwr. Co.
 GREENWOOD—Greenwood Wtr. & El. Lt. Plant
 KERSHAW—Kershaw Oil Mill Co. (City)
 LAURENS—Reedy River Pwr. Co.
 Town El. Lt. Plant (City)
 MANNING—Manning El. Lt. Plant
 MARION—Marion Wtr., Lt. & Pwr. Co.
 MOUNT PLEASANT—Charleston Con. Gas & El. Co.
 NEWBERRY—Newberry Water Wks. & Electric Lt. Co. (City)
 NEW BROOKLAND—El. Lt. Plant
 ORANGEBURG—City El. Lt. & Wtr. Plant
 ROCK HILL—Rock Hill Water, Light & Power Southern Pwr. Co.
 SPARTANBURG—El. Pwr. & Mfg. Co.
 SUMMERVILLE—Crystal Ice Co.
 SUMTER—Sumter Ice Light & Pwr. Co.
 UNION—City Elec. Lt. & Water Works (City)
 Union Mfg. & Power Co.
 WILLIAMSTON—Belton Pwr. Co.
 WINSBORO—Town El. Lt. Plant (City)
 YORKVILLE—Catawba Pwr. Co.
 Town El. Lt. & Wtr. Plant

SOUTH DAKOTA.

ABERDEEN—Aberdeen Lt. & Pwr. Co.
 BELLEFOURCHE—Bellefourche Lt., Ht. & P. Co.
 BOWDLE—Bowdle Milling Co.
 BROOKINGS—Town Lt., Wtr. & Ht. Plant
 CANTON—Canton General Electric Co. (City)
 CENTERVILLE—Centerville Milling Co.
 CHAMBERLAIN—Chamberlain Investment Co.

DEADWOOD—Cons. Power & Lt. Co.
 GROTON—Groton Lt., Heat & Pwr. Co.
 HOT SPRINGS—Water, Light & Power Co.
 HURON—Electric Co.
 LEAD—Consolidated Pwr. & Lt. Co.
 MADISON—City El. Lt. Plant (City)
 MITCHELL—Mitchell Ilg. & Pwr. Co.
 PIERRE—City El. Lt. Plant
 RAPID CITY—Dakota Pwr. Co.
 Rapid City El. & Gas Lt. Co.
 REDFIELD—Town El. Lt. Plant (City)
 SALEM—Salem Milling, Lighting & Heating Co.
 SIOUX FALLS—Sioux Falls El. Lt. & P. Co.
 Sioux Falls Lt. & Pwr. Co.
 Town El. Lt. Plant (City)
 SISSETON—Sisseton Milling Co.
 SPEARFISH—Black Hills Trac. Co.
 Spearfish El. Lt. & Pwr. Co.
 STURGIS—Sturgis Pwr. & Lt. Co.
 TYNDALL—El. Lt. Plant
 VERMILION—Vermilion Milling & El. Co.
 WATERTOWN—Kirhn-Gray El. Co.
 WEBSTER—Town El. Lt. Plant (City)
 YANKTON—Macgregor R. R. Co.

TENNESSEE.

ATHENS—Athens Light & Power Co.
 BOLIVAR—City Wtr. & Lt. Plant
 BRISTOL—Bristol Gas & Elec. Co.
 BROWNSVILLE—Lt. & Pwr. Co.
 CHATTANOOGA—Chattanooga El. Co.
 Chattanooga & Tennessee River Pwr. Co.
 CLARKSVILLE—Clarkeville R'y & Lt. Co.
 CLEVELAND—Cleveland Elec. Lt. Co.
 COLUMBIA—Columbia Wtr. & L. Co.
 COOKEVILLE—City Lt. & Wtr. Plant
 COVINGTON—Town El. Lt. Plant (City)
 DAYTON—Rhea County El. Lt. Co.
 DICKSON—City El. Lt. Plant
 DYER—Dyer Ice & Coal Co.
 DYERSBURG—City Wtr. & Lt. Dept.
 ELIZABETHTOWN—Doe River Ltg. & P. Co.
 FAYETTEVILLE—Fayetteville El. Lt. & P. Co.
 FRANKLIN—Harper Electric Light & Pow. Co.
 GALLATIN—City El. Lt. Plant
 GREENFIELD—Greenfield Elec. Lt. & Wtr. Co.
 GREENVILLE—Greenville Elec. Light Co.
 HARRIMAN—City Water & Lt. Dept.
 HUMBOLDT—City Wtr. & Lt. Plant
 HUNTINGDON—Munic. El. Lt. & Wtr. Wks.
 JACKSON—Jackson El. Lt. & Wtr. Wks. (City)
 Jackson Ry. & Lt. Co.
 JEFFERSON CITY—Jefferson City El. Co.
 JELLICO—Jellico El. Lt., Heating & P. Co.
 JOHNSON CITY—Watauga Electric Co.
 KNOXVILLE—Knoxville R'y & Lt. Co.
 LEBANON—El. Lt. Plant
 LEWISBURG—Town El. Lt. Plant (City)
 McMINNVILLE—City Wtr. & Elec. Lt. Plant
 MARTIN—City El. Lt. Plant (City)
 MARYVILLE—Rockford El. Co.
 MEMPHIS—Memphis Cons. Gas & El. Co.
 Merchants Pwr. Co.
 MILAN—City Wtr. & Lt. Plant
 MORRISTOWN—City Wtr. & El. Lt. Plant
 MOUNT PLEASANT—Mount Pleasant El. Co.
 MURFREESBORO—City Gas & El. Lt. Plant
 NASHVILLE—City El. Lt. Plant
 Nashville Ry. & Lt. Co.
 NEWBERN—City Wtr. & Lt. Plant
 OBION—City El. Lt. Plant
 PARIS—Paris City Light & Water Plant
 PULASKI—Pulaski Elec. Lt. Plant (City)
 RIPLEY—Ripley Lt., Wtr. & Ice Co.
 ROCKWOOD—City Wtr. & Lt. Plant
 Roane Iron Co.
 ROGERSVILLE—Rogersville Elec. Co.
 SHELBYVILLE—El. Lt. Plant
 SOMERVILLE—City Wtr. & Lt. Plant (City)
 SOUTH PITTSBURG—New South Pittsburgh Lt. & Pr. Plant (City)
 SPRINGFIELD—Springfield Elec. Plant (City)
 SWEETWATER—Telephone & Improvement Co.
 TRENTON—Trenton Electric Light Co.
 TULLAHOMA—Town El. Lt. & Wtr. Wks.
 UNION CITY—City Wtr. & El. Lt. Wks. (City)
 WINCHESTER—City El. Lt. Plant

TEXAS.

ABILENE—Abilene Lt. & Wtr. Co.
 ALVARADO—Alvarado Wtr., Lt. & Pwr. Co.
 AMARILLO—Amarillo Lt., Wtr. & Pwr. Co.
 ARLINGTON—Arlington Lt. & Pwr. Co.
 ATHENS—Athens El. Lt. & Pwr. Co.
 ATLANTA—Atlanta El. Lt. Plant
 AUSTIN—Wtr. Wks., El. Lt. & P. Plant (City)
 BAIRD—Baird El. Lt. Co.
 BALLINGER—West Texas Tel. Co.
 BARTLETT—Bartlett El. Lt. & Gin Co.
 BASTROP—Bastrop Wtr. & Lt. Co.
 BAY CITY—Crystal Ice & Lt. Co.
 BEAUMONT—Beaumont Ice, Lt. & Refrig. Co.
 BEEVILLE—Beeville El. Lt. Plant
 BELTON—Belton Light & Power Co.

BIG SPRING—L. L. Stephenson's El. Lt. Plant
BOERNE—Boerne El. Lt. & Gin Co.
BONHAM—Bonham El. & Gas Co.
BOWIE—Bowie Lt. & Pwr. Co.
BRADY—Brady Wtr. & Lt. Co.
BRENNHAM—Brenham Compress Oil & Mfg. Co.
BROWNSVILLE—Brownsville Wtr. & Lt. Co.
BROWNWOOD—Brownwood Gas & El. Co.
BRYAN—Bryan Wtr., Ice, Lt. & P. Co.
CALDWELL—Caldwell Ice & Lt. Co.
CALVERT—Calvert Wtr., Ice & El. Lt. Co.
CAMERON—Cameron Wtr. Pwr. & Lt. Co.
CARTHAGE—Carthage El. Lt. Plant
CHILDRESS—Childress Ice & Lt. Co.
CISCO—Western Lt. & Pwr. Co.
CLARENDON—Clarendon Wtr. Lt. & P. Co.
CLARKSVILLE—Clarksville Lt. Co.
COLEMAN—City El. Lt. Plant
Hillsboro Gas & El. Co.
COLORADO—Colorado El. Lt. Co.
COLUMBUS—Columbus Lt. Co.
COMANCHE—El. Lt. Plant
COMMERCE—Commerce Electric Light Co.
COOPER—Cooper El. Co.
CORPUS CHRISTI—Corpus Christi Ice & El. Co.
CORSICANA—Corsicana Gas & El. Co.
CROCKETT—Citizens Ice & Lt. Co.
CUERO—Buchel Pwr. & Irrigation Co.
DALHART—Dalhart Ice & El. Co.
DALLAS—Dallas El. Corp.
Dallas El. Lt. & Pwr. Co.
Dallas Ice Factory, Lt. & Pwr. Co.
DECATUR—Moore Mfg. Co.
DEL RIO—Del Rio El. Lt. & Ice Co.
DENISON—Denison Light & Power Co.
DENTON—Denton Interurban Ry. & P. Plant
Denton Wtr., Lt. & Pwr. Plant (City)
DETROIT—Detroit El. Lt. & Pwr. Co.
DUBLIN—Dublin Gas & El. Co.
EAGLE LAKE—Eagle Lake Lt. & Gin Co.
EAGLE PASS—Texas-Mexican El. Lt. & P. Co.
EL PASO—El Paso El. Co.
El Paso El. Ry. Co.
ENNIS—Ennis Ice, Lt. & Pwr. Co.
FARMERSVILLE—Farmersville Mill & Light Co.
FLATONIA—Flatonia El. Lt. Plant
FORT WORTH—Bound Electric Co.
Citizens Ry. & Lt. Co.
City Elec. Light Works (City)
Consumers Lt. & Heating Co.
Fort Worth Light & Power Co.
FRANKLIN—Franklin Water & Light Co.
FREDERICKSBURG—El. Lt. Plant
GAINESVILLE—Gainesville El. Co.
GALVESTON—Brush Elec. Light & Power Co.
City Electric Light Plant (City)
Galveston El. Co.
GARLAND—El. Lt. Plant
GATESVILLE—Gatesville Electric Light Co.
GEORGETOWN—Georgetown Wtr. Lt. & Pwr.
GIDDINGS—Giddings El. Lt. Wks. Co.
GILMER—Gilmer El. Lt. Co.
Goldthwaite Lt. & Ice Co.
GOLIAD—Chilton Lt. Co.
Goliad Wtr. & Lt. Co.
GONZALES—Citizens El. Lt. & Pwr. Co.
GRANBURY—Frisco Ice & Lt. Co.
GREENVILLE—Town El. Lt. Plant (City)
GROESBECK—Auglin Lt. Co.
GROVETON—Groveton Lt. & Ice Co.
Trinity County Lumber Co.
HALLETTVILLE—City El. Lt. & Wtr. Wks.
HAMILTON—Hamilton Lt. & Ice Co.
HAMLIN—Hamlin Lt. & Pwr. Co.
HEARNE—Hearne Lt. & Pwr. Co.
HENDERSON—El. Lt. & Planing Mill Co.
HENRIETTA—Malone & Morris
HEREFORD—El. Lt. & Pwr. Co.
HICO—Hico Electric Light Co.
HILLSBORO—Hillsboro Gas & Electric Co.
HONEY GROVE—Honey Grove Ice & El. Lt. Wks.
HOUSTON—Houston Lighting & Pwr. Co.
HUBBARD CITY—Union Central Lt. & Ice Co.
HUMBLE—El. Lt. & Wtr. Co.
HUNTSVILLE—Huntsville Elec. Lt. & Ice Co.
ITALY—Italy Wtr. Co.
ITASCA—Hockaday, A. S.
Itasca El. Lt. Plant
JACKSBORO—Jacksboro Lt. Plant
JACKSONVILLE—Jacksonville Ice & El. Co.
JEFFERSON—Jefferson Ice, Lt. & Pwr. Co.
KAUFMAN—Kaufman El. Lt. Co.
KERRVILLE—Scheimer El. Lt. & Pwr. Co.
KILLEEN—City Lt. & Pwr. Co.
LADONIA—Ladonia Lt. & Wtr. Co.
LA GRANGE—La Grange Electric Light Co.
LAMPASAS—Lampasas Lt. & Pwr. Co.
LAREDO—Laredo El. & Ry. Co.
LEONARD—El. Lt. & Ice Co.
LLANO—Llano Milling & Mfg. Co.
LOCKHART—Lockhart Wtr. Wks.
LONGVIEW—Longview Ice, Lt. & Bottling Co.

LUFKIN—Lufkin Lt. & Pwr. Co.
LULING—Luling El. Lt. & Pwr. Co.
MCGREGOR—McGregor Art. Wtr. Co.
MCKINNEY—McKinney El. Lt. & Motor P. Co.
McKinney Town El. Lt. Plant (City)
MARLIN—Marlin Ice & El. Lt. Co.
MARSHALL—Arkansas & Texas Cons. Ice & Coal Co.
MART—Mart Lt. & Pwr. Co.
MASON—Ice & Lt. Co.
MEMPHIS—Memphis Ice & El. Co.
MERKEL—Merkel Lt. & Pwr. Co.
MEXIA—Mexia Lt. & Wtr. Co.
MIDLAND—El. Lt. Plant
MINEOLA—Mineola Elec. Light & Ice Co.
MINERAL WELLS—Mineral Wells El. Pwr. & Heating Co.
MOUNT PLEASANT—Mount Pleasant El. Co.
NACOGDOCHES—Nacogdoches Lt. & Power Co.
NAVASATO—Bridges & Holley El. Lt. Co.
NEW BRAUNFELS—Landa El. Lt. & P. Co.
ORANGE—Orange Ice, Lt. & Water Wks Co.
PALESTINE—El. Lt. Plant
Palestine El. & Ice Co.
PARIS—Paris Lt. & Pr. Co.
PILOT POINT—Pilot Point Ice & Pwr. Co.
PITTSBURG—Arkansas & Tex Cons. Ice & Coal Co.
PLANO—Stark Grain Co.
PORT ARTHUR—Port Arthur Wtr. Co.
QUANAH—Quanah Lt. & Ice Wks.
RICHMOND—Richmond Elec. Lt. Co.
ROCKDALE—Rockdale Imp. Co.
Rockdale Wtr. & Lt. Co.
ROSEBUD—Rosebud Light & Power Co.
SAN ANGELO—San Angelo Wtr. Works.
SAN ANTONIO—San Antonio Gas & El. Co.
SAN MARCOS—San Marcos El. Lt. & P. Co.
SAN SABA—San Saba Lt., Ice & Bottling Wks.
SCHULENBURG—Schulenburg Lt. & Pwr. Co.
SEALY—Sealy Cotton Co.
SEGUIN—Seguin El. Lt. & Pwr. Co.
SEYMOUR—C. C. Mill Elev. & Lt. Co.
SHERMAN—City El. Lt. Plant
Sherman Gas & El. Co.
SMITHVILLE—Smithville El. Lt. & Wtr. Co.
SOUR LAKE—Lt. & Pwr. Co.
STAMFORD—Stamford Gas & El. Co.
STEPHENVILLE—Stephenville Lt. & Wtr. Co.
SULPHUR SPRINGS—Ashcroft, B. F. & Sons
SWEETWATER—Western Lt. & Pwr. Co.
TAYLOR—Citizens Lt. & Pwr. Co.
TEAGUE—Teague El. Lt. & Pwr. Co.
TEMPLE—Temple El. Lt. Co.
TERRELL—Terrell El. Lt. Co.
TEXARKANA—Texarkana Gas & El. Lt. Co.
Texarkana Lt. & Trac. Co.
THURBER—Texas-Pacific Mercantile & Mfg. Co.
TIMPSON—Waterman Lumber & Supply Co.
TYLER—Tyler El. Co.
UVALDE—Uvalde El. Lt. Co.
VAN ALSTYNE—Yoder Ice & El. Co.
VERNON—Vernon Tel. Lt. & Pwr. Co.
VICTORIA—Victoria Mfg. Co.
WACO—Gas Co.
WAXAHACHIE—Hillsboro Gas & El. Co.
Waxahachie El. & Gas Co.
WEATHERFORD—City of Weatherford Wtr., Lt. & Ice Co.
WEIMAR—Weimar El. Lt. Co.
WHITEWRIGHT—Whitewright El. Co.
WICHITA FALLS—Wichita Falls Lt. & W. Co.
WILLS POINT—Wills Point El. Lt. Co.
WINNSBORO—Winnsboro El. Lt. & Wtr. Co.
WOLFE CITY—Wolfe City El. Lt. & P. Co.
WORTHAM—Wortham Gin & Lt. Co.
YOAKUM—Yoakum Improvement Co.

UTAH.

AMERICAN FORK—Utah Co., Lt. & Pr. Co.
BEAVER CITY—Beaver River Pwr. Co.
City El. Lt. Plant
BINGHAM—Telluride Pwr. Co.
BRIGHAM CITY—Brigham City El. Lt. Plant
EPHRAIM—Town El. Lt. Plant (City)
EUREKA—Eureka El. Co.
FAIRVIEW—Fairview El. Lt. Co.
FOUNTAIN GREEN—Big Springs El. Co.
GRANTSVILLE—Clark El. Pwr. Co.
HYRUM—Union Elec. Light & Power Co.
LEHI—Utah County Lt. & Pwr. Co.
LOGAN—Telluride Power Co.
City El. Lt. Plant (City)
MAMMOTH—Telluride Pwr. Co.
MANTI—Manti Light & Power Co.
MERCUR—Telluride Pwr. Co.
MORONI—Big Spring El. Co.
MOUNT PLEASANT—Mount Pleasant Mill & Pwr. Co.
MURRAY—Progress Co. (The)
Utah Lt. & Ry. Co.
NEPHI—Town El. Lt. Plant (City)
OGDEN—Utah Light & Power Co.
PARK CITY—Park City Lt., Ht. & Pr. Co.
PAYSON—City El. Lt. Plant (City)

PLEASANT GROVE—Utah County Lt. & Pr. Co.
PROVO—Telluride Pwr. Co.
The Elec. Co. of Provo.
RICHFIELD—Richfield El. Lt. & Pwr. Co.
RICHMOND—Iligh Creek El. Lt. & Pwr. Co.
SALT LAKE CITY—Salt Lake Pub. Serv. Co.
Utah Light & Railway Co.
SMITHFIELD—High Creek El. Lt. & P. Co.
SPRING CITY—Spring City Lt. & Milling Co.
SPRINGVILLE—City El. Lt. Plant
TOOELE—Clark El. Pwr. Co.
WEST JORDAN—Progress Co.

VERMONT.

BARRE—Consolidated Lighting Co.
BARTON—City El. Lt. Plant
BELLOWS FALLS—Fall Mt. El. Lt. & P. Co.
BENNINGTON—Bennington El. Co.
BERLIN—(See Contpelier)
BETHEL—Bethel Elec. Light & Power Co.
Gaysville El. Lt. & Pwr. Co.
BRADFORD—Bradford Elec. Lighting Co.
BRANDON—Nesbobe Electric Co.
BRATTLEBORO—Connecticut River Pwr. Co.
Twin State Gas & El. Co.
BRISTOL—Lake Dunmore Pwr. & Trac. Co.
BURLINGTON—Burlington Lt. & Pr. Co.
Burlington El. Lt. Plant (City)
CABOT—Mollys Falls El. Lt. & Pwr. Co.
CANAAN—Allen, Wm. F. Co.
CHELSEA—Chelsea El. Lt. & Bobbin Co.
DERBY—Stanstead El. Lt. Co.
ENOSBURG FALLS—City El. Lt. Plant
ESSEX JUNCTION—Peoples El. Lt. & P. Co.
FAIRFAX—Vermont Pwr. & Mfg. Co.
FAIRHAVEN—Fairhaven Electric Co.
HARDWICK—Village El. Lt. Plant (city)
Woodbury Granite Co.
HIGHGATE—Swanton El. Lt. Plant
HYDE PARK—City El. Lt. Plant
ISLAND POND—Island Pond Electric Co.
JOHNSON—Village Elec. Lt. Plant (Village)
LUDLOW—Town El. Lt. Plant (City)
LYNDON—Lyndonville El. Lt. Plant
LYNDONVILLE—Village El. Lt. Plant (Village)
MARSHFIELD—Molleys Falls El. Lt. & P. Co.
MIDDLEBURY—Middlebury Electric Co.
MONTGOMERY—Nelson & Hall Co.
MONTGOMERY CENTER—Nelson & Hall Co.
MONTPELIER—Consolidated Lighting Co.
Moody & Almon
Vermont Pwr. & Lighting Co.
MORETOWN—Moody & Almon
MORRISVILLE—Village El. Lt. & Wtr. Plant
NEWPORT—Newport El. Lt. Co.
NORTHFIELD—Village El. Lt. Plant (Village)
POULTNEY—Fairhaven El. Co.
PROCTOR—Vermont Marble Co.
RANDOLPH—White Riv. El. Co.
READSBORO—Readsboro El. Lt. Co.
RICHFORD—Sweet, Cummings Co.
RICHMOND—Richmond Light & Power Co.
ROCHESTER—Rochester El. Lt. & Pr. Co.
RUTLAND—Rutland Ry., Lt. & Pwr. Co.
ST. ALBANS—Vermont Pwr. & Mfg. Co.
ST. JOHNSBURY—St. Johnsbury Elec. Co.
SPRINGFIELD—Springfield Elec. Co.
SWANTON—Village El. Lt. Plant (Village)
VERGENNES—Vergennes Electric Co.
WATERBURY—Consolidated Lighting Co.
WELLS RIVER—Village El. Lt. Plant (Village)
WEST MINSTER—Fall Mountain El. Lt. & Pwr. Co.
WEST RUTLAND—Vermont Marble Co.
WHITE RIVER JUNCTION—Mascoma Electric Light & Gas Co.
WILLIAMSTOWN—Consol. Ltg. Co. (Montpelier)
WILMINGTON—Wilmington El. Lt. Co.
WINDSOR—Windsor Electric Light Co.
WINOOSKI—Burlington Lt. & Pwr. Co.
WOODSTOCK—Woodstock Electric Co.

VIRGINIA.

ABINGDON—Abingdon Water & Light Co.
ALEXANDRIA—Alexandria El. Co.
ASHLAND—Virginia Lt. & Pwr. Co.
BASIC CITY—South River Lt. & Pwr. Co.
BEDFORD CITY—Town El. Lt. Plant (City)
BERKELEY—Norfolk Ry. & Lt. Co.
BERRYVILLE—Winchester & Washington City Ry. Co.
BIG STONE GAP—Powell Valley Lt. & P. Co.
BLACKSBURG—Blacksburg Pwr. & Supply Co.
Virginia Polytechnic Institute
BLACKSTONE—Lt. Wtr. & Ice Co.
BRIDGEWATER—North River El. Co.
BRISTOL—Bristol Gas & El. Co.
BUENA VISTA—Buena Vista Lt. & Pwr. Co.
CHARLOTTESVILLE—Charlottesville & Albemarle Ry. Co.
CHRISTIANSBURG—Montgomery El. Co. (Inc.)
CLIFTON FORGE—Clifton Forge Lt. & Wtr. Co.
Clifton Forge, Ice & Bottling Works

COVINGTON—Covington Lt., Ice & Cold Storage Co.
 CULPEPER—Culpeper Lt. & Ice Co.
 DANVILLE—Dan River Pwr. & Mfg. Co.
 Danville El. Lt. Plant (City)
 EMPORIA—Emporia Lt. & Pwr. Corp.
 FARMVILLE—Farmville El. Lt. Plant (Village)
 FRANKLIN—Town Elec. Lt. Plant (Town)
 FREDERICKSBURG—Rappahannock El. Lt. & Town El. Lt. Plant (City) Pwr. Co.
 FRONT ROYAL—Royal El. Lt. Plant (City)
 GORDONSVILLE—Gordonville El. Lt. & P. (City owns Plant)
 GRAHAM—East River El. Co.
 HAMPTON—Newport News & Old Point Ry. & El. Co.
 HARRISONBURG—City Hydro-El. Plant (City)
 LAWRENCEVILLE—St. Paul Normal & Industrial School
 LEESBURG—Leesburg El. Co.
 LEXINGTON—Lexington Light & Power Co.
 LURAY—Luray El. Co., Inc.
 Shenandoah Riv. Lt. & P. Corp.
 LYNCHBURG—Lynchburg Trac. & Light Co.
 MANCHESTER—Virginia Pass. & Pwr. Co.
 MARION—Marion Lt. & P. Co.
 MARTINSVILLE—Town El. Lt. & Pwr. Plant
 NEWPORT NEWS—Citizens' Ry., Lt. & P. Co.
 NORFOLK—Norfolk Ry. & Lt. Co.
 Norfolk & Portsmouth Trac. Co.
 PETERSBURG—Virginia Pass. & Power Co.
 PHOEBUS—Newport News & Old Point Ry. & Elec. Co.
 POCAHONTAS—Pocahontas Lt. & Water Co.
 PORTSMOUTH—Norfolk & Portsmouth Trac. Co.
 PULASKI—City El. Lt. Plant
 RADFORD—Radford Water Power Co.
 RICHMOND—Virginia Passenger & Pwr. Co.
 ROANOKE—Roanoke Lt., Heat & Pwr. Co.
 Roanoke Ry. & El. Co.
 Roanoke Wtr. Pwr. Co.
 SALEM—Roanoke Wtr. Pwr. Co.
 Salem El. Lt. Plant (City)
 SHENANDOAH—City El. Lt. & Wtr. Plant
 SOUTH BOSTON—S. Boston El. Lt. & P. Co.
 STAUNTON—Augusta Electric Co.
 Blue Ridge Lt., Pwr. & Ry. Co.
 City of Staunton El. Lt. Wks. (City)
 SUFFOLK—Suffolk Lt. & Ice Co.
 TAZEWELL—Tazewell El. Lt. & Pwr. Co.
 WARRENTON—Fletcher & Bros. El. Co.
 WAYNESBORO—South River Lt. & Pwr. Co.
 WEST POINT—West Point Wtr., Lt. & P. Co.
 WINCHESTER—Winchester & Washington City Ry. Co.
 WOODSTOCK—Woodstock El. Lt. & Pwr. Co.
 WYTHEVILLE—Stone El. Lt. & Pwr. Co.

WASHINGTON.

ABERDEEN—Gray's Harbor Ry. & Light Co.
 ANACORTES—Anacortes Water Co.
 ARLINGTON—Jim Creek Wtr., Lt. & P. Co.
 ASOTIN—Lewiston-Clarkston Co.
 BALLARD—Seattle Electric Co. (City)
 BELLINGHAM—Whatcom County Ry. & L. Co.
 BLAINE—City El. Lt. Plant
 BREMERTON—Bremerton-Charleston Lt. & Bremerton El. Lt. Co. Fuel Co.
 BUCKLEY—Buckley El. Co.
 CASTLE ROCK—Castle Rock El. Co.
 CENTRALIA—Centralia Elec. Lt. & Pwr. Co.
 CHEHALIS—Chehalis Lt. & Pwr. Co.
 CLARKSTON—Lewiston-Clarkston Co.
 CLE ELUM—Northwestern Imp. Co.
 COLFAX—El. Lt. Plant
 COLVILLE—Northwestern Lt. & Pwr. Co.
 COSMOPOLIS—Grays Harbor Commercial Co.
 DAVENPORT—Big Bend Lt. & Pwr. Co.
 DAYTON—Dayton Electric Co.
 ELLENSBURG—City El. Plant
 EVERETT—Puget Sound Inter. Ry. & P. Co. Seattle-Tacoma Pwr. Co.
 GARFIELD—Idaho-Washington Lt. & P. Co.
 GEORGETOWN—Seattle El. Co.
 HOQUIAM—Gray's Harbor El. Co.
 LA CONNOR—La Connor El. Lt. & Pwr. Co.
 LEAVENWORTH—Tumwater Lt. & Wtr. Co.
 MARYSVILLE—Everett Ry. & El. Co.
 MONROE—Monroe Wtr. & Lt. Co.
 MONTESANO—Montesano Lt. & Wtr. Co.
 MOUNT VERNON—Mount Vernon El. Lt. Co.
 NORTH YAKIMA—Northwest Lt. & Wtr. Co. North Yakima & East Eelah Irrig. Co.
 OAKESDALE—Idaho-Washington Lt. & P. Co.
 OLYMPIA—Olympia Lt. & Pwr. Co.
 PALOUSE—Palouse Lt. & Pwr. Co.
 POMEROY—Tucannon Pwr. Co.
 PORT ANGELES—City El. Lt. Plant (City)
 PORT TOWNSEND—Citizens El. Co. (The)
 PROSSER—Prosser Falls Land & Power Co.
 PULLMAN—Idaho-Washington Lt. & Pwr. Co. Lewiston-Clarkston Co.
 PUYALLUP—City El. Lt. Plant Tacoma Industrial Co.
 RENTON—Seattle-Tacoma Pwr. Co.

REPUBLIC—Republic Lt. & Pwr. Co.
 RITZVILLE—Ritzville El. Co.
 ROSLYN—Northwestern Improvement Co.
 SEATTLE—City El. Lt. & Pwr. Plant
 Hanford Irrig. & Pwr. Co., Seattle Nat'l Bank bldg.
 Northwestern Impr. Co.
 Northwestern Improvement Co.
 Puget Sound Pwr. Co.
 Seattle El. Co.
 Seattle-Tacoma Pwr. Co.
 SEDRO WOOLEY—Shelton El. Co.
 Skagit Improvement Co. (The)
 SNOHOMISH—Snohomish El. Lt. & Wtr. Pwr. Co.
 SOUTH BEND—South Bend El. Co.
 SPOKANE—Big Bend Lt. & Pwr. Co. El. Lt. Plant
 Northwest Lt. & Wtr. Co.
 Washington Wtr. Pwr. Co.
 SPRAGUE—Big Bend Lt. & Pwr. Co.
 TACOMA—Puget Sound El. Ry. Co. Seattle-Tacoma Pwr. Co.
 Syndicate Heat & Pwr. Co.
 Tacoma El. Lt. Plant (City)
 Tacoma Ry. & Pwr. Co.
 TEKOA—Idaho-Washington Lt. & Pwr. Co.
 VANCOUVER—Portland Ry., Lt. & Pwr. Co.
 WAITSBURG—Waitsburg El. Lt. Co.
 WALLA WALLA—Northwestern Gas & El. Co.
 WATERVILLE—Waterville El. Lt. Plant (City)
 WENATCHEE—Wenatchee El. Co.
 Wenatchee Pwr. Co.
 WINLOCK—Winlock El. Lt. Plant

WEST VIRGINIA.

BELINGTON—Consumers Heat, Lt., Wtr. & Pwr. Co.
 BENWOOD—Ohio Valley Electric Light Co.
 BLUEFIELD—Bluestone Traction Co.
 BUCKHANNON—Buckhannon Lt. & Wtr. Co.
 CENTRAL CITY—Ohio Valley El. Ry. Co.
 CEREDO—Ohio Valley El. Ry. Co.
 CHARLESTON—Kanawha Water & Light Co.
 CHARLESTOWN—Charlestown El. Lt. & Pwr. Co.
 CLARKSBURG—Clarkshurg Elec. Light Co.
 DAVIS—Davis Electric Light Co.
 ELKINS—Elkins Pwr. Co.
 Valley Improvement Co.
 FAIRMONT—Fairmont & Clarksburg Trac. Co.
 GRAFTON—City El. Lt. Plant
 Grafton Gas & El. Lt. Co.
 GUYANDOTTE—Ohio Valley El. Ry. Co.
 HAMBLETON—Parsons El. Lt. & Pwr. Co.
 HARPERS FERRY—Harpers Ferry Electric Light & Power Co.
 HINTON—Hinton Water, Light & Supply Co.
 HUNTINGTON—Ohio Valley El. Ry. Co.
 KEYSER—Keyser Elec. Light Co.
 KEYSTONE—Keystone Lt. & Pwr. Co.
 KINGWOOD—Town Electric Light Plant
 McMECHEN—Ohio Valley El. Co.
 MANNINGTON—Mannington Lt. & Pwr. Co.
 MARTINSBURG—Martinsburg Power Co.
 MONONGAH—Fairmont Coal Co.
 MONTGOMERY—Montgomery Pwr. Co.
 MORGANTOWN—Union Utility Co.
 MOUNDSVILLE—Moundsville Electrical Co.
 NEW MARTINSVILLE—New Martinsville El. Light, Heat & Power Co.
 PARKERSBURG—Parkersburg, Marietta & Interurban Ry. Co.
 PARSONS—Parsons Electric Light & Power Co.
 PIEDMONT—Piedmont El. Lt. & Pwr. Co. Piedmont Feed & Ice Co.
 POINT PLEASANT—Point Pleasant Water & Light Co.
 RAVENSWOOD—City El. Lt. Plant
 RONCEVERTE—Consolidated Lt. & Pwr. Co.
 ROWLESBURG—City El. Lt. Plant
 SHEPHERDSTOWN—Shepherdstown El. Lt. & Pwr. Co.
 SISTERSVILLE—Sistersville El. Lt. & P. Co.
 THOMAS—Davis Coal & Coke Co.
 TERRA ALTA—Terra Alta Electric Light Pit.
 WELCH—Welch Water, Light & Power Co.
 WELLSBURG—Wellsburg El. Lt., Ht. & P. Co.
 WESTON—Weston El. Lt. Pwr. & Wtr. Co.
 WHEELING—City El. Lt. Department (City) Wheeling Electrical Co.

WISCONSIN.

ALBANY—Albany El. Lt. Co.
 ALGOMA—Town El. Lt. Plant
 ALMA—Alma Electric Light Co.
 AMERY—Amery El. Co.
 ANTIGO—Antigo Electric Light Plant
 APPLETON—Wisconsin Trac., Heat & P. Co.
 ARCADIA—Arcadia Electric Light Plant (City)
 ASHLAND—Ashland Lt., Pwr. & St. Ry. Co. White River Pwr. & St. Ry. Co.
 AUGUSTA—Augusta El. Lt. Plant
 BALDWIN—Baldwin Electric Light Co. (E. J. Cove, Prop.)

BARABOO—Baraboo Lighting Co.
 BARRON—Town Electric Light Plant (City)
 BAYFIELD—City Lt., Pwr. & Wtr. Plant
 BEAVER DAM—Beaver Dam Lt. & Pwr. Co.
 BELLEVILLE—Bennett, Mrs. A. D.
 BELOIT—Beloit Wtr., Gas & El. Co.
 BERLIN—Berlin Lighting, Heating & P. Co.
 BLACK RIVER FALLS—Town Electric Light Plant (City)
 BLOOMER—Bloomer El. Lt. Plant
 BOSCOBEL—City El. Lt. Plant
 BRILLION—Paustian, F. Milling Co.
 BROADHEAD—Broadhead Electric Light Co.
 BURLINGTON—Burlington El. Lt. & P. Co.
 CAMPBELLSPORT—Dundee Wtr., P. & El. Co.
 CASHOTON—El. Lt. & Pwr. Co.
 CASSVILLE—Cassville El. Lt. & Wtr. Wks.
 CEDARSBURG—City El. Lt. Plant
 CHILTON—Wisconsin El. Service Co.
 CHIPPEWA FALLS—Chippewa Falls Water Works & Lighting Co.
 CLINTONVILLE—City El. Lt. Plant
 COLBY—City El. Lt. & Wtr. Plant
 COLUMBUS—Town Water Works & Electric Light Plant (City)
 CUDAHY—Milwaukee El. Ry. & Lt. Co.
 CUMBERLAND—Town El. Lt. Plant (City)
 DARLINGTON—Darlington El. Lt. & Wtr. P. Co.
 DELAVAN—Delavan Lt. & Pwr. Co.
 DE PERE—De Pere El. Lt. & Pwr. Co.
 DODGEVILLE—El. Lt. & Pwr. Co.
 DURAND—Durand Light & Power Co.
 EAU CLAIRE—Chippewa Val. Ry., L. & P. Co.
 EDGERTON—Edgerton El. Lt. Co.
 ELKHART—Elkhart Lake El. Co.
 ELKHORN—City Lt. & Wtr. Plant
 ELLSWORTH—Ellsworth El. Lt., Ht. & P. Co.
 ELSWORTH—Ellsworth El. Lt., Ht. & P. Co.
 ELROY—Elroy El. Lt. Plant
 EVANSVILLE—Town El. Lt. & Wtr. Plant
 FENNIMORE—City El. Lt. Plant
 FLORENCE—City El. Lt. Plant
 FOND DU LAC—Eastern Wisconsin Ry. & Public Service Co. Lt. Co.
 FORT ATKINSON—City Lt. & Wtr. Plant
 FOUNTAIN CITY—Roettiger, H. & F.
 GALESVILLE—Davis Mill Co.
 GLENWOOD—Glenwood & Downing Lt. & P. Co.
 GRAND RAPIDS—Consol. Wtr. Pwr. & Paper Electric & Wtr. Co.
 GREEN BAY—Green Bay Gas & Electric Co.
 HARTFORD—Hartford El. Co.
 HAYWOOD—Haywood El. Lt. & Pwr. Co.
 HUDSON—Burkhardt Milling & El. Pwr. Co. City El. Lt. Plant (City)
 IRON RIVER—Wtr., Lt. & Pwr. Co.
 JANESVILLE—Janesville El. Co.
 JEFFERSON—Town El. Lt. Plant (City)
 KAUKAUNA—Kaukauna Gas, El. Lt. & P. Co.
 KENOSHA—Kenosha Gas & El. Co.
 KEWASKUM—Kewaskum El. Lt. Co.
 KILBOURNE—City El. Lt. Plant
 LA CROSSE—Central El. Co.
 La Crosse Gas & El. Co.
 La Crosse Wtr. Pwr. Co.
 LADYSMITH—Ladysmith Lighting Co.
 LAKE GENEVA—Equitable El. Lt. Co.
 Lake Geneva Wtr. & Lt. Co.
 LAKE MILLS—Fargo Creamery Supply House
 LANCASTER—Lancaster El. Lt. Co. (Inc.)
 LODI—City El. Lt. Plant
 LOYAL—City El. Lt. Plant El. Lt. Plant
 MADISON—Madison Gas & El. Co.
 MANAWA—Little Wolf River Lumber Co.
 MANITOWOC—Manitowoc El. Lt. Co.
 MARINETTE—Menominee & Marinette Lt. & Trac. Co.
 MARSHFIELD—Marshfield Water, Hl. Light & Power Co.
 MAUSTON—Mauston El. Service Co.
 MAZOMANIE—Village El. Lt. Plant (Village)
 MAYVILLE—Northwestern Iron Co.
 Paustian, F. Milling Co.
 MEDFORD—Medford Lt. & Heating Co. (Inc.)
 MELLE—Mellen Wtr. & Lt. Co.
 MENASHA—City Lt. Plant
 MENOMONIE—Menomonie Elec. Lt. & Pr. Co.
 MERRILL—Merrill Ry. & Lighting Co.
 Wright, H. W. Lumber Co.
 MILWAUKEE—Milwaukee El. Ry. & Lt. Co.
 MINERAL POINT—Mineral Point Electric
 MONDOVI—Mondovi El. Lt. Co. Lt. Co.
 MONROE—Monroe Elec. Light & Power Co.
 MONTICELLO—Berlin & Monticello Granite Co.
 MOUNT HOREB—Mount Horeb El. Lt. Plant
 MUSCODA—Muscodia Elec. Light & Power Co.
 Necedah—Necedah Milling & El. Co.
 NEENAH—Wisconsin Trac., Lt., Ht. & P. Co.
 NEILLSVILLE—Elec. & Water Supply Co.
 NEW LONDON—City El. Lt. & Wtr. Wks. Plant

NEW RICHMOND—Apple River Power Co.
City El. Lt. & Wtr. Wks.
NORTH MILWAUKEE—North Milwaukee Lt. & Pwr. Co.
OCONOMOWOC—City El. Lt. Plant
OCONTO—Oconto Electric Co.
People's Land & Mfg. Co.
OMRO—Omro El. Lt. Co. (Inc.)
ONALASKA—Wisconsin Lt. & Pwr. Co.
OSHKOSH—Oshkosh Gas Lt. Co.
PARK FALLS—Park Falls Wtr., Lt. & P. Co.
PESHTIGO—Peshtigo Lumber Co.
PHILLIPS—Phillips Lt., Wtr., Heat. & P. Co.
PLATTEVILLE—Platteville El. Lt. & P. Co.
PLYMOUTH—Plymouth Wtr., Lt. & Pwr. Co.
PORTAGE—Portage Electric Light Co.
PORT WASHINGTON—Wisconsin Chair Co.
PRAIRIE DU CHIEN—Prairie City Elec. Co.
PRESCOTT—El. Lt. Plant
PRINCETON—City El. Lt. Plant
RACINE—Milwaukee El. Ry. & Lt. Co.
REEDSBURG—City Elec. Light Plant (City)
North Freedom El. Lt. Co.
RHINELANDER—Rhineland Lighting Co.
Rhineland Power Co.
RIB LAKE—City El. Lt. Plant
RICE LAKE—City El. Lt. Plant
Rice Lake Milling & Pwr. Co.
RICHLAND CENTER—Richland Center Electric Light Plant (City)
RIPON—Ripon Light & Water Co.
RIVER FALLS—Town Elec. Light Plant (City)
SEYMOUR—El. Lt. Plant
SHAWANO—Town El. Lt. Plant (City)
SHEBOYGAN—Sheboygan Lt., Pwr. & Ry. Co.
SHEBOYGAN FALLS—El. Lt. Plant
SHELL LAKE—City El. Lt. Plant
SOLDIERS GROVE—Soldiers Grove Elec. Co.
SOUTH MILWAUKEE—Milwaukee El. Ry. & SPARTA—El. Lt. Plant Lt. Co.
SPOONER—City Wtr. & Lt. Plant
SPRING GREEN—Elec. Light Plant (City)
SPRING VALLEY—Spring Valley Lt. & P. Co.
STANLEY—Northwestern Lumber Co.
STEVENS POINT—Stevens Point Lighting Co.
STOUGHTON—City El. Plant
STURGEON BAY—Town Elec. Lt. Plant (City)
SUN PRAIRIE—Sun Prairie El. & Laundry Co.
SUPERIOR—Red Cliff Land & Lumber Co.
Superior Wtr., Lt. & Pwr. Co.
TOMAH—Tomah El. & Pwr. Co.
TOMAHAWK—Elec. Water & Telegraph Co.
TWO RIVERS—Town Water & El. Plant (City)
VIROQUA—Viroqua Elec. Light Co.
WASHBURN—City El. Pwr. Plant
WATERLOO—City El. Lt. Plant
WATERTOWN—Watertown Gas & El. Co.
WAUKESHA—Waukesha Gas & Electric Co.
WAUPACA—Waupaca Elec. Light & Ry. Co.
WAUPUN—Town Electric Light Plant (City)
WAUSAU—City El. Lt. Plant
Wausau Street R. R. Co.
WAUWATOSA—Milwaukee El. Ry. & Lt. Co.
WEST BEND—West Bend Heating & Ltg. Co.
WEYAUWEGA—Weyauwega Elec. Light Co.
WHITE WATER—White Water Elec. Lt. Co.
WITTENBERG—Viking Lumber Co.

WYOMING.

BUFFALO—Buffalo Mfg. Co.
CHEYENNE—Cheyenne Light, Fuel & Pwr. Co.
CODY—Shoshone El. Lt. & Pwr. Co.
CUMBERLAND—Union Pacific Coal Co.
DIAMONDVILLE—Diamond Coal & Coke Co.
DOUGLAS—Douglas El. Lt. & Pwr. Co.
EVANSTON—Evanston Elec. Light Co.
FRONTIER—Frontier Supply Co.
GREEN RIVER—Green River El. Lt. & P. Co.
HANNA—Union Pacific Coal Co.
KEMMERER—Frontier Supply Co.
LANDER—Lander Elec. Light & Power Co.
LARAMIE—Laramie Lt. & Pwr. Co.
NEW CASTLE—El. Co.
RAWLINS—Rawlins El. Lt. & Fuel Co.
Tucson Gas, El. Lt. & Pwr. Co.
ROCK SPRING—Union Pacific Coal Co.
SHERIDAN—Sheridan El. Lt. & Pwr. Co.

Electric Light Fixtures

(See Gas & Electric Light Fixtures, Manufacturers & Wholesalers)

Electric Light Poles

(See Poles, Iron & Steel, Flag & Street; also Ties, Poles & Posts)

Electric Light Reflectors

(See Reflectors)

Electric Lighting Plants for Yachts

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Herreshoff Mfg. Co., Bristol, R. I.
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Electric Lighting Sets

U. S. Rapid-Fire Gun & Power Co., Derby, Conn.
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Electric Motor Mfrs.

(See Dynamo & Motor Manufacturers; also Motors of Various Kinds)

Electric Novelties

Electric Appliance Co. ("Morse High Grade Electric Belts," Electric Insoles, Inhalers, etc.), Burlington, Kans.
Ohio Electric Works, Cleveland, O.
Scribner, J. W., & Co., Tonawanda, N. Y.

Electric Porcelain Supplies

(See Cleats, Porcelain & Clay)

Electric Power & Lighting Machinery

(See also Dynamos & Motors; also Generators. Various Kinds)

Akron Electric Mfg. Co., Akron, O.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Engine Co., Boundbrook, N. J.
C. & C. Electric Co., 149 B'way, New York
Crocker-Wheeler Co., Ampere, N. J.; 39 Cortlandt, New York
Elektron Mfg. Co., Springfield, Mass.
Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Maine Electric Co., Portland, Me.
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
SPRAGUE ELECTRIC MFG. CO., 534 W 34th, New York. (See adv. index & branch offices, end of book)
Sturtevant, B. F. Co., Hyde Park, Mass.
Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, N. Y.
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Electric Prints (Black, Blue or Brown)

SOLTMANN, E. G.
(Prints 4½ ft. Wide & Any Length Made in One Piece; also everything for the Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

*Electric Protective Devices

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
JOHNS-PRATT CO., THE ("Noark") Fuses & Accessories, Hartford, Conn.

Electric Railway Supplies

(See Railway Supplies, Electric)

Electric Speed Controllers

(See Controllers, Electric Speed)

Electric Switches

(See Switches, Various Kinds)

*Electrical Engineers & Contractors

(See also Electrical Supplies)

GRISCOM-SPENCER CO., 90 West, New York. (See adv. index & branch offices, end of book)
JONES, HAROLD K. (Out of Town Work a Specialty), 22 Burling Slip, New York
WESTINGHOUSE ELEC. & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Electrical Parts & Fittings (Stamped)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Electrical Supplies

(For All Other Electrical Specialties see Index of Contents)

ALABAMA.

BIRMINGHAM—Barbour Pl. & Elec. Co.
Burney Elec. Co.
Moore & Handley Hardware Co.
Stratford, M. T.
DOTHAN—Martin & Turnbull
MOBILE—Cox Elec. Engin'g & Supply Co.
Mobile Elec'l Supply Co.
MONTGOMERY—West Electric Co.
Wing, J. S.
SHEFFIELD—Spruance Elec. Co.
WETUMPKA—Gamble Hardware Co.

ARIZONA TERRITORY.

PHOENIX—Arizona Elec. Co.
TEMPE—Temp Hardware Co.
TUCSON—Russell Elec. & Machine Co.

ARKANSAS.

FORT SMITH—Masters, F. M.
HELENA—Rawlings, A. P.
Tappen Hardware Co.
HOPE—Hope Hardware Co.
Union Hardware Co.
Ward & Key
HOT SPRINGS—Rush Bros.
LITTLE ROCK—Arkansas Elec. Co.
Electric Construction Co.
PINE BLUFF—Pine City Elec. Co.
POCAHONTAS—Ozark Telephone Co.
RECTOR—Hofford, J. R. & Bros.
SILOAM SPRINGS—Benton County Hardware Co.

CALIFORNIA.

ARRAYO GRANDE—Robinson, R.
BAKERSFIELD—Carr, John H.
BERKELEY—Bradshaw, R. H.
Electric Wiring & Repairing Co.
BIGGS—Doty, W. M.
CASSEL—Williams, H. E.
COLTON—Colton Hardware Co.
Emery Hardware Co.
CORONA—Glass Bros.
EUREKA—Jensen, E. & Co.
FERNDAL—Kausen & Williams Hardware Co.
HEALDSBURG—Garrett, A. W.
Gunn & Ferguson
Raabe, M.
LOS ANGELES—Gaus Bros.
Holabird-Reynolds Elec. Co.
Howe Bros.
Mission Fixture Co.
Pacific Electrical Works
Parmalce, Z. L. Co.
Woodill & Hulse Elec. Co.
LOS GATOS—Bogart, Albert & Co.
Lewis, O. & Son
MERCED—Barcroft, R. & Sons Co.
MONTEREY—Globe Elec'l Co. (Inc.)
NEVADA CITY—Alpha Hardware & Supply Co.
Turner, Hadley Co.
OAKLAND—Century Elec. & Fixture Co.
Coast Electric Co.
Crescent Electric Co.
Oakland Electrical Co.
Pierce Hardware Co.
PASADENA—Gaylord & Vore
POMONA—Pierce, L. W.
REDDING—McCormick-Saeltzer Co.
Young, Jas. Hardware Co.
REDLANDS—Southwest Electrical Co.
RIVERSIDE—Southwest Electrical Co.

SACRAMENTO—Crombach, John A. Electrical Supply Co.
Oakley, Paul
Scott, Lyman & Stack
SAN DIEGO—Baker, C. W.
Hartwell, F. S.
Johustone, J. S. & Son
Southern Electrical Co.
SAN FRANCISCO—Bachrach & Co., 556 Market
Bauer Lamp Reflector & Elec. Sign Co., 528 Gough
Breck Elec. & Mfg. Co., 55 Grove
Brooks, Follis Elec. Corp., 44-46 2d
Century Elec. Construction Co., 18 Fell
Cole, John R. Co. (Mfrs.' Agts.), 766 Folsom
Consolidated Elec. Appliance Co., 575 9th
Day, Thomas Co., 725 Mission
Drendell Elec. Mfg. Co., Mission & Erie
Dunham, Carrigan & Hayden Co., 150 Kansas
Eccles & Smith Co., 526 Mission
Elec. Railway & Mfrs. Supply Co.
Electrical Supply Co., 60 1st, 375 Natoma
Enterprise Elec. Works, 120 8th
Farnsworth Elec'l Works, 132-38 2nd
GENERAL ELECTRIC CO., Union
Trust bldg. (See adv. index, end of book)
Hanbridge-Loyest Elec. Co. (Inc.), 564 Eddy
Hetty Bros., 326 Ellis
Holabird, Reynolds Elec. Co., 527 Mission
Illuminating Fixture Co., 566 Eddy
Kirsteu, W. H., 55 McAllister
Levy Elec. Co., 648 Sacramento
Marwedel, C. W., 260 9th
National Elec. Co., 103 Turk
Seiler, Paul Elec'l Works, 322 Market
Standard Elec'l Works, 117-21, New Montgomery
Sterling Elec. Co., 137 New Montgomery
Weidenthal-Gasliner Elec. Works, Mission
Will & Finck, 10 Gough
SAN JOSE—California Elec'l Construction Co.
SAN LUIS OBISPO—Payne, E. M., 774 Higginera
SAN MATEO—Foster, J. A., 232 2d av.
SANTA ANA—Nickey Hardware Co.
SANTA BARBARA—Loveday, Claude
Reynolds Elec'l Supply Co.
SANTA CLARA—Menzel, R. Hardware Co.
SANTA CRUZ—Byrne Bros.
SANTA MONICA—Wilson, E. A. & Co.
SANTA ROSA—Northwestern Elec. Co.
STOCKTON—Jackson & Earle
Powell, N. D.
VISALIA—Wild, W. E.
WATSONVILLE—Pajaro Valley Mercantile Co.
WEAVERVILLE—Weaverville Supply Co.

COLORADO.

COLORADO SPRINGS—Central Elec. Co.
Electric Co.
New York Electric Co.
DENVER—Cahn Elec. Co., 1430 Welton
Carstarphen Elec. Co., Colfax & B'way
Carter, A. S., 531 16th
Denver Elec. Co., 137 15th
Elec'l Supply & Cons. Co., 1522 Stout
GENERAL ELECTRIC CO., Kit-
tredge bldg. (See adv. index, end of book)
Hendrie & Bolthoff, 1639 17th
Mountain Elec. Co., 1619-23 Glenarm
New England Elec. Co., 1551 Blake
Rice, W. E., 435 15th
Sachs-Lawlor Machine & Mfg. Co., 1543
Silver State Elec. Co., 222 15th Larimer
Western Elec. Co., 1516 Curtis
Wilkes, Gilbert Co., McPhee bldg
LEADVILLE—Baker, I. S.
MONTE VISTA—Weiss-Chapman Drug Co.
OURAY—Arp's Bros. Hardware Co.
PUEBLO—Pueblo Elec. Co.
Stevison Elec. Co.
SALIDA—Bateman Hardware Co.
SILVERTON—Crooke & Fuller Hardware Co.
TRINIDAD—Trinidad Gas & Elec. Supply Co.
Warren Elec. Co.

CONNECTICUT.

ANSONIA—Burr, C. B.
BRIDGEPORT—Gale Elec. Co (Inc.)
Kilpatrick & Hotz Co.
BRISTOL—Stedman & Co.
Weldon, S. A. & Son
DANBURY—Danbury Hardware Co.
Hewitt & Warden
DERRY—Biever, N. L.
GREENWICH—New England Engineering Co.
HARTFORD—Francis & Co.
Hanlon & Murphy
Hartford Electric Supply Co.
New England Engineering Co.
JEWETT CITY—Tracy, John H.

MERIDEN—Morse, H. W.
MIDDLETOWN—Noxon & Whitney Co.
NEW BRITAIN—Abbe, A. H. & W. E.
Mills, H. L.
New England Engineering Co.
NEW HAVEN—Bishop, Walter S.
Dinnan, J. J.
Gale, W. W. & Co.
New England Engineering Co.
Pierson & Dean Co.
NEW LONDON—Lyon & Ewald
New England Engineering Co.
NEW MILFORD—Ilene, H. D.
NORWALK—Hubbell & Staple Hardware Co.
NORWICH—Eaton, Chase & Co.
Preston Bros.
SOUTH NORWALK—Dow, C. E.
Fox Cycle & Hardware Co.
TORRINGTON—Perkins, E. A. Elec. Co.
WATERBURY—New England Engineering Co.
WESTPORT—Guyer, W. S. & Son
WINSTED—Richards, Geo. & Son
WOODBURY—Hitchcock, F. F.

DELAWARE.

GEORGETOWN—Holson Bros. Hardware Co.
WILMINGTON—Garrett, Miller & Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Brooks, E. F. Co., 531 15th N. W.
Chesapeake Supply Co., 1009-15 9th, N. W.
Galloway, John R., 525 10th, N. W.
Gasch, Richard & Sons, 914 9th, N. W.
National Electrical Supply Co., 1330 New York av, N. W.
Peerless Elec. Co., 1226 H, N. W.
Rau, John C., 524 12th, N. W.
Schneider's Sons, C., 1207 F, N. W.
Young, Geo. A., 717 9th, N. W.

FLORIDA.

JACKSONVILLE—Florida Elec. Co.
PENSACOLA—Peake, Edw. W.
Pearl, Philip R., 17 W Garden
ST. AUGUSTINE—Hamblen, C. F.
TAMPA—Dunn, Jesse
Pierce Bros. & Co.
Shea, D. W.

GEORGIA.

ARLINGTON—Fudge, Y. W.
ATLANTA—Carter, W. E. Elec. Co., 12 Walton
Carter & Gillespie Elec. Co., 40 N Broad
GENERAL ELECTRIC CO., Em-
pire bldg. (See adv. index, end of book)
Wade, G. H. Elec. Co., 708-09 Gould bldg.
AUGUSTA—Brill Elec. Co.
Moore-Edenfield Elec. & Mfg. Co.
CARTERSVILLE—Calhoun Bros.
COLUMBUS—Hill Electric Co.
FITZGERALD—Hussey & Parratt
GRIFFEN—Davis, E. H.
MACON—Putzel, Morris
Southern Electric Supply Co.
ROME—Rome Supply Co.
SAVANNAH—Electric Supply Co.
Savannah Elec. Repair Co.
SHELLMAN—Shellman Hardware Co.

HAWAII.

HONOLULU—Hawaiian Elec. Co. (Ltd.)

IDAHO.

BOISE—Boise Electrical Supply Co.
Electric Fixture & Supply Co.
COEUR d'ALENE—Home Elec. Supply Co.
LEWISTON—Lewiston Electric Supply Co.
POCATELLO—Pocatello Elec. Supply Co.

ILLINOIS.

ALTON—Alton Plumbing & Heating Co.
BELLEVILLE—Karr Supply Co.
Kircher & Son
Stoltz, U. J. Plumbing Co.
BLOOMINGTON—Carlton, Guy
Gray, James
Keiser-Van Leer Co.
Read & Bro., G. H.
BLUE ISLAND—Brouson, E. B. & Co.
CAIRO—Halliday-Rittenhouse
CARLYLE—Feulner, Fred
CHICAGO—Akins, B. L. & Co., 1898 Evanston
Allen Elec. Co., 153 Jefferson, S av.
American Electrical Supply Co., 211 E Lake
Appleton Elec. Co., 224 Washington
Arms & Co., 384 E 39th

Austin, M. B. & Co. (Mfrs.' Agts.), 137
W Jackson boul
Bernet & Co., 3975 Cottage Grove av.
Birtman, C. F. Co., 152 E Lake
Bodine Elec. Co., 72 S Canal
Central Electric Co. (Wholesale Jobbers), 266
5th av.
Chicago Electric Mfg. Co., 60 Van Buren
Darche Mfg. Co., 830-46 S Halsted
Electric Service Supplies Co., 303 Dearborn
Electrical Appliance Co. (Wholesale Jobbers), 134 W. Jackson Boul.
Friedlander Co., 149 Huron
Garton, W. R. Co., 132 W. Jackson Boul.
GENERAL ELECTRIC CO., Mon-
adnock blk. (See adv. index, end of book)
Gorman, Sam. J. Co., 824 W Fullerton av
Harvard Elec. Co., 66 W Van Buren
Illinois Electric Co. (Wholesale Jobbers), 239
Madison
Karas Elec. Co., 90 Illinois
Manhattan Electrical Supply Co. (Mfrs. & Jobbers), 188 5th av.
Metropolitan Electrical Supply Co., 184 E Lake
art av
Morgan-Gardner Electric Co., 27th & Stew-

Safety Elec. Co., 35 Michigan av.
Standard Elec. Co., 109 S. Western av.
Tietgen, Falk & Co., 79 W Van Buren
Vim Co., 68 E Lake
Wagner, R. V. Co., 140 Wabash av.
Wallace Supply Co., 19 S Jefferson
Western Electric Co. (Mfrs. & Wholesalers), 259 S Clinton

WESTINGHOUSE ELEC. & MFG.
Co., 171 La Salle. (See adv. index, end of book)

Wilkins, Charles, 397 Milwaukee av
Williamson, R. & Co., 88-92 W Washington
Wilmarth, T. W. & Co., 261 Wabash av.
Young, Dan & Co., 929 W Madison
Zenco Elec'l Supply Co., 92 W Van Buren
CHILLICOTHE—Slinn & Davis
COLCHESTER—Wear, E. Bert Co.
CUBA—Marshall, G. A.
DANVILLE—Allen, T. A. Elec. Co.
Marrs, Tanner Elec. Co.
DECATUR—Dawson, O. W. & Co.
Elec. Supply & Fixture Co.
Trotter, Walker Elec Co.
Vaughn Elec. Co.
DOWNERS GROVE—Hawkins, H. J.
EAST ST. LOUIS—Broderick & Co.
EVANSTON—Adams, C. H. & Co.
Phil, A. O.
FAIRFIELD—Heidinger, F.
FREEPORT—Ridgeway Elec. Co.
GALESBURG—Nelson, F. J.
Quigley, J. P., 53 S Cherry
Telford, O. S.
GRAYVILLE—Ronalds & Ronalds
GREENUP—Miller, W. H.
HARRISBURG—Harrisburg Elec. Co.
HARVARD—Wagar, G. R.
HINSDALE—Hinsdale Elec'l Supply Co.
LEBANON—Sager Hardware Co.
MARENGO—Renwick, Geo. F. & Son
MOUNT OLIVE—Mount Olive Telephone & Elec. Co.
NEWTON—Roebuck, Geo. E.
OAK PARK—Elsom, Wright, Jr.
PARIS—Wolfe, A. W.
PEORIA—Barnholdt, John
Central Electric Co., 234 S Jefferson av.
Crawley Elec. Co.
Feger Elec. Co.
McMeen Elec'l Co.
Mills Elec. Co.
Stapp, C. E.

PONTIAC—Foster, Clarence
PRINCETON—Glynn & Co.
QUINCY—Best, E. Plumbing & Steam Heat-
ing Co.
Gem City Elec. Co.
Gunther Hardware Co.
Niswinder & McCoy
Tenk Hardware Co.
ROCKFORD—Pendergast, E. F. & Co.
Sells, Miller, Santee Co.
Warner Electrical Engineering Co.
ROCK ISLAND—Elec'l Cons. & Machinery Co.
Fiebig, Charles
SPRINGFIELD—Haas, R. Electric & Mfg. Co.
STAUNTON—Fritz, H. C.
TABLE GROVE—Cass, J. A.
TUSCOLA—Field Appliance Co.
URBANA—Electric Appliance Co.
WAUKEGAN—Lyon, G. R. & Sons
XENIA—Pelree, N. T.

INDIANA.

ANDERSON—Indiana El. Co.
DUNKIRK—Chicago Telephone & Supply Co.
Skinner, W. L.
ELKHART—Borneman & Sons

FERDINAND—Beckmann, J. H. & Sauer
FORT WAYNE—Arnold, P. B., 724 Harrison
FRANKLIN—Franklin Hardware Co.
GAS CITY—Jackson Bros.
GOODLAND—Burgess & Jakway
Gumm, Hart & Co.
GREENFIELD—Cooper, J. W.
GREENWOOD—Cooke & Sons
Peek, Grafton
INDIANAPOLIS—Cheyne, F. H. Electrical Co.
115 Ohio

Elliott Telephone & Elec. Co., 421 Mass av.
Farrell, J. S. & Co., 332 N Illinois
Hatfield Electric Co., 36 S Meridian
Rayse Elec. Co., 125 S Meridian
Sanborn Marsh Electric Co., 115 N Illinois
Skillman Elec. Co., 51 Kentucky av.
Varney Elec'l Supply Co., 235 S Meridian
JONESBORO—Jackson Bros.
LAFAYETTE—Central Laboratory Supply Co.
Howe & Shipley, 330 Main
LOGANSPOUT—Cann, Geo. W. & Co.
MARION—Economy Elec. Co.
MUNCIE—Carpenter, Albert G.
Mach. Electric Supply Co.
NAPPANEE—Weiss & Frevert Bros.
NEW ALBANY—Thompson, O. C.
OSGOOD—King, H. P. Elec'l & Machine W'ks
PERU—Kling, Alpha H.
RICHMOND—Jones Hardware Co.
ROCKVILLE—Dooly & Dooly
ROYAL CENTRE—Bingaman, W. H.
SHELBYVILLE—De Prez, J. G. & Co.
SOUTH BEND—Elec. Service Co.
TERRE HAUTE—Freitag & Weinhardt, 664
Wabash av.

Miller Elec. Co., 710 Rose court
TIPTON—Compton & Son
UNION CITY—Platt & Son
VEVAY—Danner, A. V.
WINCHESTER—Magee, C. E. & Son
WOITHINGTON—Andrews, W. C. & Co.
Shaw Hardware Co.

IOWA.

BURLINGTON—Modern Elec. Co.
CEDAR RAPIDS—Cedar Rapids Elec. Supply
Fawcett, C. E. Co.
Terry, J. B. & Co.
CLINTON—Baldwin Bros.
COUNCIL BLUFFS—Lovett, Israel & Co.
DAVENPORT—Tri-City Elec. Co.
DES MOINES—Collins, John, Observatory
Midland Elec. Co. bldg.
DUBUQUE—Smith, E. P. Elec. Contracting
ESTHERVILLE—Lohr, E. B. Co.
Nauclas & Howard
FORT DODGE—Downing Electrical Ca.
GRINNELL—Miles, G. L.
KEOSAUQUA—Duckworth, W. A. & Son
MUSCATINE—Jackson Electric Supply Co.
NEVADA—Nevada Mutual Telephone Co.
SHELDON—Messer, E. P. & Son
SIOUX CITY—Corn Palace Elec. Cons. Co.
Electrical Construction Co.
Hawkeye Elec. Co.

KANSAS.

ARKANSAS CITY—Hamilton, Collison Hard-
ware Co.
CLAY CENTER—Wixon, A. A. ware Co.
COFFEYVILLE—Coffeyville Elec. Supply Co.
Stevens El. Supply & Construction Co.
GLASCO—Davidson & Co.
LEAVENWORTH—Tholen Bros.
LOGAN—King, F. J. Co.
TOPEKA—Eagle Mercer Electric Co.
Howard, H. B.
WATERLOO—Waterloo Elec'l Supply Co.
WEBSTER CITY—Bonebright, F. A.
WELLINGTON—Fetters, A. & Son
WICHITA—Incandescent Light & Supply Co.
Jordan, E. P.
Landis Electric Co.
United Electric Co.
WINFIELD—McGregor, J. G.

KENTUCKY.

ASHLAND—Wellman, H. Elec. Mfg. & Supply
COVINGTON—Fischer's Bros. Co. Co.
FLEMINGSBURG—Henderson, C. W.
LEXINGTON—Frazer & Bush
LOUISVILLE—Albrecht & Helck, 242-44 W
Jefferson
Belknap Hardware & Mfg. Co., 2d &
Washington
Brownell, H. G., 247 W Main
Clark, James, Jr., Electric Co. (Jobbers &
Mfrs.), 313 W Main
Daubert & Schrecker, 1006 3d
Home Elec. Co., 238 3d
Louisville Electric Supply Co., 412 2d
McWilliams, Jos. & Co., 719 W Market

Tafel, Hennan C., 254 W Jefferson
Wolff, E. W., 1023 3d
Wood, Harry I., 518 W Main
OWENSBORO—Kentucky Electrical Co.
PADUCAH—Foreman Bros. Elec. Co.
Katterjohn & Dalby.

LOUISIANA.

ALEXANDRIA—Evans Bros.
CROWLEY—Marx, Frank
LAFAYETTE—Lacast Hardware Co.
NEW ORLEANS—Barnes Elec. Construction
Co. (Ltd.), 513 Gravier
Conrad, H. J., 819 Iberville
Douglas Elec. Cons. Co., 511 Godchaine
Electric Appliance Co., 205 Chartres bldg.
Falvey-Wilson Co., 528 Baronne
GENERAL ELECTRIC CO., Hen-
nen bldg. (See adv. index, end of book)
Hartwell, C. C. Co. (Ltd.)
Interstate Electric Co., 314 Baronne
Joachun, J., 309 Dryades
Marks Elec. Cons. Co., 532 Iberville
National Automatic Fire Alarm Co. of
Louisiana, 614 Gravier
Richardson, J. W. A., 715 Union
Sammons, E. A. & Co. (Ltd.)
Stewart, S. J., 312-14 Hibernia Bank bldg.
Woodsum, Herbert E.
RAYNE—Stamm Hardware Co.
SHREVEPORT—Elliott Elec. Co.
Watson Electric Supply Co.

MAINE.

AUBURN—Elms, James
AUGUSTA—Ward, A. D.
BANGOR—Bangor Elec'l Construction Co.
Dole, Chas. E.
Lane, J. N. E.
Smith & West
BAR HARBOR—Dole, C. E.
BIDDEFORD—Authoine, Geo. A.
BRIDGTON—Wales & Hamblen
BRUNSWICK—Furbish, Benj. L.
BUCKSPORT—Gardner, E. B. & Co.
CHERRYFIELD—Nash, F. C.
ELLSWORTH—Wescott, H. F.
LEWISTON—Stetson, J. H. Co.
Whitney, Geo. A. & Co.
PORTLAND—Cleveland, L. W. Co., 414-16
Fox, John M. & Co. Congress
Maine Elec. Co. (The), 25 Commercial
Marston, C. L. & Co., 228 Middle
Morrill, T. L. & Co.
York & Boothby Co., 222 Middle

MARYLAND.

BALTIMORE—**ALLIS-CHALMERS CO.,**
1307 Continental bldg. (See adv. index,
end of book)
Baltimore Elec. Supply Co., 215 N Calvert
Baltimore Gas Light Co., 520 W Baltimore
Durling Elec. Co., 106 S Gay
Enos Co., 519 N Charles
GENERAL ELECTRIC CO., Con-
tinental Trust bldg. (See adv. index, end
of book)
Maryland Elec. Supply Co., 328 N Eutaw
Rosenfeld, Eugene & Co., S Howard
Zamoiski, Joseph M., 409 W Lexington
CAMBRIDGE—Wright, H. H.
EASTON—Shannahan & Wrightson Hdw. Co.
FREDERICK—Frederick Elec'l Engineering Co.

MASSACHUSETTS.

ARLINGTON—Le Baron, R. W.
BEVERLY—Hamilton, F. A. E.
BOSTON—Boston Cons. Co., 48 N Washington
Boston Elec. Co., 29 Harrison
Bryne, Thomas W., 8 Doane
Buckminster, Geo. H. & Co., 155 Milk
Chipman, W. E. & Co., 62 Sudbury
Clarke & Mills Elec. Co., 543 Boylston
Electric Goods Mfg. Co., 144 Pearl
Fuller, Seth W. Co., 100 Bedford
GENERAL ELECTRIC CO., 84
State. (See adv. index, end of book)
Holder, H. A., 122 Dudley
Jamaica Plain Elec. Co., 200 South
Knowles, Charles S., 7 Arch
Lewin, Edwin C., 121 Federal
McKenny & Waterbury Co., 181 Franklin
Pettingell, Andrews Co. (Wholesale Job-
bers), 156 Pearl
Pierce, Chas. & Co., 42 Charles
Reblis & Covell, 91 Warren
Ridlon, Frank Co. (Trolley Line), 251 A
Stuart—Howland Co. (Wholesale Jobbers),
4-5 Winthrop square
Summers, H. & Sons, 38 Charles
Swan Electrical Co., 37 Pearl

United Electric & Apparatus Co., 200 Sum-
ner
Walter, Harry, 26 Exchange pl
Wetherbee & Whitney, 112 Franklin
Wetmore-Savage Co., 65 Oliver
BROCKTON—Snow Bros., 16 Centre
Tremain Elec. Co., School & City Hall sq.
BROOKLINE—Fleming, J. F.
CAMBRIDGE—Brock Bros., Harvard sq.
Bryant, F. & Co., 728 Mass av.
Clarke & Mills Elec. Co., 1444 Mass av.
CHARLESTOWN—McVarnish Co. (The)
CLINTON—Howe, Nathaniel L.
Pratt, E. O.
COHASSET—Cohasset Elec. Co.
CONCORD—Keyes, J. M.
FALL RIVER—Potter & Earle, 158 N Main
FITCHBURG—Bruce-Hibbard Elec. Co.
GLOUCESTER—Favor, S. S.
HAVERHILL—Fox, D. G.
Heath, A. P.
Kimball, H. W.
HOLYOKE—Haskell, H. Frank
Oakes, Roland T. Co.
HYDE PARK—Norfolk Construction Co.
LOWELL—Derby & Morse
New England Elec. & Supply Corp.
Tucke & Parker Co.
LYNN—Campbell Elec. Co.
Gilson, Hatch & Wood
MANCHESTER—Clark & Mills El. Co.
MILFORD—Tewksbury, W. C.
NATICK—Durkee, M. A.
Fiske & Co.
NEW BEDFORD—Whitlow Corporation
NEWBURYPORT—Dickens, Jas.
NORTH ADAMS—Spruill, J. B.
NORTH ATTLEBORO—Hall, W. M.
PITTSFIELD—Berkshire Elec. Co.
SHELBURNE FALLS—Newell, H. & Co.
SOMERVILLE—Underhill Hardware Co.
SOUTH FRAMINGHAM—Foley Bros.
SPRINGFIELD—Carter Electric Co.
Fitzpatrick, P. C.
Hayes, Chas. E.
TAUNTON—Presbrey-Field Co.
WAKEFIELD—Taylor, Geo. H.
WARE—Sibley, J. B. & Son.
WEST MEDFORD—Ober, William E.
WEST NEWTON—Colgan, Wm. H.
WOBBURN—Thompson, L. W.
WORCESTER—Coghlin Elec. Co., 234 Main
Power Maintenance Co., 100 Mechanic
Temple, Henry D., 217 Commercial

MICHIGAN.

BATTLE CREEK—Central El. Co., 124 B'way
DETROIT—Commercial Supply Co., 47 Park
Detroit Electric Co., 56 Shelby pl, W
Fuller Co., 1565 Russell
GENERAL ELECTRIC CO., Majes-
tic bldg. (See adv. index, end of book)
Miller Seldon Elec. Co., 55 Park pl, N
Seidler-Miner Elec. Co., 207 Jefferson
Standard Elec. Co., 194 Randolph
Teal, Frank C Co., 75 Bates
Walker, Henry L., 40 Larned, E
EATON RAPIDS—Minnie & Tubbs
FLUSHING—Phelps, C.
FRANKFORT—Upton, Wm.
GRAND RAPIDS—Grand Rapids Elec. Co., 9
S Division

Lewis Elec. Co., 36 N Division
Neuman Elec. Co., 53 E Bridge
Wheeler, M. B. Electric Co.
HARRISVILLE—Kahu, S. B.
HOLLAND—Bertsch, Chas. A. Elec. Co.
HOUGHTON—Barrett Elec. Co.
KALAMAZOO—Columbian Elec. Co.
LANSING—Capitol Elec. Engineering Co.
Rice, Seymour A.
SAGINAW—Johnsou, J. H. & Co.
Markey & Co.
ST. CLAIR—Whiting, John P.
ST. LOUIS—Humphrey & Brockway
St. Louis Hardware Co.
SAULT SAINT MARIE—Northern Elec. Co.
WEST BAY CITY—Hahn, Joe

MINNESOTA.

AITKEN—Potter-Casey Co.
Moark & Young
CLOQUET—Flsh, L. A.
DULUTH—Northern Elec'l Co., 20 3d av.
LITCHFIELD—Settergren Bros.
MINNEAPOLIS—Bell, Vernon & Co., 56 S 3d
Electrical Engineering Co. (Wholesale & Re-
tail), 21 N 6th
GENERAL ELECTRIC CO., Phoe-
nix bldg. (See adv. index, end of book)
Laird, R. M., 311 2d av, S
Minneapolis Elec. & Cons. Co., 15 S 4th
Northern Electric Co., 9 S 5th
Pierson & Wilcox Elec. Co., 223 5th

NASHWAUK—Nashwaik Hardware Co.
 ROCHESTER—Kennedy, Wm. Elec. Co.
 RUSH CITY—Johnson, S. C. & Son
 ST. PAUL—Nimis & Nimis, 21 E 5th
 Northwestern Elec. Equipment Co., 185 E
 Pioneer Elec. Co., 367 Jackson 4th
 St. Paul Electric Co., 316 Robert
 SAUK CENTER—Schlenseuer Hardware Co.
 SOUTH ST. PAUL—Erick & Schult Co.
 SPARTA—Juten & Carlson
 Saari, Campbell & Kraker

MISSISSIPPI.

HOUSTON—Brand & Lyles Hardware Co.
 MERIDIAN—Dalton, W. J. Elec. Co.
 OKOLONA—Parchman Bros.
 OXFORD—Price, Relbue
 TUPELO—Trice & Raymond Hardware Co.
 VICKSBURG—Pegram, J. B.
 WEST POINT—West Point Hardware Co.
 YAZOO CITY—Crane Hinman Hardware Co.
 Yazoo Hardware Co.

MISSOURI.

APPLETON—Luchsinger Merc. Co.
 BETHANY—Bethany Hardware Co.
 Coles Hardware Co.
 Stubbs & Son
 BRECKENRIDGE—Cochran, John T.
 COLUMBIA—Furney, C. W.
 HANNIBAL—Bluff City Heating & Elec. Co.
 Robinson, T. C. & R. B.
 HIGGINSVILLE—Downing, Sam.
 Knipmeyer, J. H.
 Ritter Bros.
 HOLLIDAY—Curtright & Cunningham
 JEFFERSON CITY—Star Dynamo Co.
 JOPLIN—Belden Elec. Supply Co.
 KANSAS CITY—B. R. Elec. & Telephone Mfg.
 Co., 5th & Delaware
 Bunting, Stoue Hardware Co., 804 Walnut
 Cowie, E. S. Elec. Co., 1413 Grand av.
 Electric Wiring Co., 711 Delaware
 Hodge Elec. & Mfg. Co., 701 Delaware
 Kansas City Elec'l Cons. Co., 930 Wyandotte
 Kansas City Elec. & Telephone Supply Co.,
 919 Grand av.
 North Elec. Co. (The), 317-19 S. W. boul.
 Osborn, W. T. & Co., 702 Delaware
 Ross, L. C. Co., 813 Walnut
 Stephens Gas Appliance Co. (The), 909 N
 Western Elec. Co., 611 Wyandotte 6th
 LEBANON—Bantley Bros. Hardware Co.
 MACON—Farrar, Chas. L.
 MEMPHIS—Clement, W. C.
 Morris, Ben.
 Mount, J. E.
 ROLLA—Livesay & Walker
 Spilman, J. A.
 ST. JOSEPH—American Electric Co., 218 S 7th
 Columbian Elec. Co., 820 Frederick
 L. & H. Elec. Co., 315 S 8th
 McCarthy Bros. Co., 816 Olive
 ST. LOUIS—Abadie, E. H. Co., Times bldg
 Adam, Frank Electrical Co., 904-914 Pine
 Asher, Henry, 5011 Delmar av.
 Brueggeman Hardware Co., 202 N 12th
 Bullock Electric Mfg. Co., 721 Olive
 Central Telephone & Electric Co., 2135
 Chapman, P. E., 17 N 10th Lucas av
 Commercial Electrical Supply Co. (Wholesale
 Jobbers), Pine & 15th
 Crocker-Wheeler Co., 721 Olive
 Eclipse Elec'l Co., 1224 Pine
 Electric Service Supplies Co., 316 N 2d
 Electric Traction Supply Co., 310 Market
 Electrical Machine & Specialty Co., 204
 Franklin av.
 Ewing-Merkle Electric Co. (Wholesale Job-
 bers), 1106 Pine
GENERAL ELECTRIC CO., Wain-
right bldg. (See adv. index, end of book)
 Inland Electric Co.
 Linze El. Supply Co., 1141 Olive
 Oliver Elec. & Mfg. Co., 3215 Pappin
 Rumsey & Sikemeier Co., 19th & Pine
 St. Louis Elec. Mfg. Co., 7th & Hickory
 Sutter, Chas. J., 1220 Pine
 Wagner Electric Mfg. Co., 415 Locust
 Wesco Supply Co.
 Western Electric Co. (Of Chicago), 810
 Spruce
 SPRINGFIELD—Electric Equipment Co.
 Springfield Electrical Supply Co.
 UNIONVILLE—Quigley Supply Co.
 WEST PLAINE—Ald Hardware Co.
 Fnnkhouser & Davis

MONTANA.

BUTTE—Anaconda Copper Mining Co.
 Montana Elec. Co. (The)
 Tracy, W. W., 1130 Utah av.

DILLON—Dart Hardware Co.
 GREAT FALLS—Great Falls Elec. Properties
 HELENA—Allen & Jones
GENERAL ELECTRIC CO. (See
adv. index, end of book)
 LIVINGSTON—Park County Electric Co.

NEBRASKA.

AURORA—Mather, Myrl S.
 CRETE—Small, A. E. & Co.
 HASTINGS—Brown, H. S. & Co.
 MINDEN—Hawes Hardware & Furniture Co.
 OMAHA—Burgess-Graden Co., 1511 Howard
 Lehmer, Joseph R.
 Nebraska El. & Fixture Co.
 Western Electric Co., 802 Farnam
 Western Electrical Co., 411-13 S 10th
 Wolfe Elec. Co., 1810 Farnam

NEVADA.

RENO—Reno Electrical Works
 Riverside Fixture Co.
 VIRGINIA CITY—Crosby Co.

NEW HAMPSHIRE.

CLAREMONT—Rice, C. A.
 FRANKLIN—Burleigh, H. W.
 GROVETON—Welch, G. W.
 KEENE—Rossman, G. M.
 Willard, L. M.
 LANCASTER—Moore, L. F.
 MANCHESTER—Farrell Bros.
 Franks, A. L.
 NASHUA—Austin, C. H.
 PORTSMOUTH—Chadwick & Trefethen /
 WHITEFIELD—Libbey, M. F.

NEW JERSEY.

AMPERE—Crocker-Wheeler Co.
 ASBURY PARK—Hope Electric Co.
 ATLANTIC CITY—Albertson & Young
 Allen, Philip E.
 Leigh, P. J.
 Valle, Geo. W. Electric Co.
 BERNARDSVILLE—Buist, David
 BRIDGETON—Esibill & Ott
 CAMDEN—Cremius, E. F. Electric Co., 326
 CLOSTER—Sherman & Walton B'way
 EAST ORANGE—Shaw, H. M. & Co., 563 Main
 JERSEY CITY—Blinck, Jean R. 49 Montgomery
GRISCOM-SPENCER CO., Grand
& Sussex. (See adv. index, end of book)
 Jersey City Elec. Co., 772 West Side av.
 MILLVILLE—Anderson, J. W.
 MOORESTOWN—Stiles, Wilson T.
 MORRISTOWN—Dean, W. W.
 Dutton, Willis H.
 New Jersey Engineering & Construction Co.
 NEWARK—Elec'l Maintenance & Rep. Co.,
 202 Market
 Electric Motor & Equipment Co. (The), 232
 Harfinger, A., 59 Ann Market
 Jaehnig, Paul H., 13 Bank
 Newark El. Supply Co. (Jobbers), 281 Mar-
 Venino, Ferdinand, 13 Ward ket
WESTINGHOUSE ELEC. & MFG.
Co., 95 Orange. (See adv. index, end
of book)
 NEW BRUNSWICK—Mack, Edw. of book)
 ORANGE—Boyce, Geo. R.
 Werner, C. F.
 PASSAIC—Anderson, R. B., 179 Main av.
 New Jersey Engineering & Supply Co., 177
 Newman, C. R., Howe av. Main av.
 PATERSON—Mills, H. W. & Co., 59 Washing-
 PLAINFIELD—Laug, Allen B. ton
 PRINCETON—Bickford, J. V.
 RED BANK—Haight, E. L. Elec. Co.
 RIDGEWOOD—Harrison, F. A.
 SUMMIT—Norton, E. E.
 Shapter, W. P.
 TRENTON—Adams Elec. Co., 23 Chancery
 Fleron, M. M. & Son, 18 S Broad
 Freema, E. H. Electric Co., 20 Chambers
 Katzenbach & Co., 35 E State
 Toman Bros., 130 N Warren
 WILDWOOD—Kalback Bros.
 WOODBINE—Bayard, M. L.
 Danerkirsh, L. M.

NEW MEXICO.

ALAMOGARDO—Fisher, Merrill H.
 ALBUQUERQUE—Nash Elec. Supply Co.

NEW YORK.

ALBANY—Albany Elec'l Cons. Co., 10 James
 Bamer, McDowell & Co., 38 Central av.
 Croissant Hardware Co., 202½ Washington
 Finch & Hahn, 92 State av.
 Frost & Sheldon, 47 Hudson av.
 Havens, Morton, Jr., 79 Chapel
 Schunpf, Alfred, 22 Washington av.

AUBURN—Burns, D. J. & Co.
 Yorker, H. E. Elec. Co.
 BATAVIA—Smith, Herbert E.
 BAY SHORE—Mills, C. J.
 BINGHAMTON—Binghamton Elec. Cons. Co.
 BUFFALO—**GENERAL ELECTRIC CO.,**
 Ellcott sq. bldg. (See adv. index, end of
 book)

McCarthy Bros. & Ford, 41 E Eagle
 McCutcheon, C. H., 18 Ohio
 Peters, Herman L., 260 Pearl
 Robertson Elec. Co. (Inc.), 19 Terrace
 Robertson Elec. Cons. Co., 21 Terrace
 Sackett Elec. Cons. Co., 256-58 Pearl
 CANAJOHARIE—Klinkhart, L. H.
 St. John Hardware Co.
 CATSKILL—Horne, F. B.
 CATTARAUGUS—Eberlee, T. J.
 COBLESKILL—Van Voris, Irving
 COHOES—Clute Bros.
 CORNING—Corning Auto Co.
 COURTLAND—Southwick Co.
 COXSACKIE—Church, W. K.
 DOLGEVILLE—Faville, W. H.
 DUNKIRK—Schafere, Henry
 Thompson, L. E.
 EAST HAMPTON—Jones, A. O.
 ELMIRA—Georgia, Chas. A., 120 Lake
 Young, Geo. H., 118 N Main
 FAIRPORT—Schummer, F. F.
 FORT PLAIN—Stewart & Bergen Co.
 GENESEO—Stevens & Vallance
 GENEVA—Geneva Elec. Construction Co.
 GLENS FALLS—Adams, G. E. & Co.
 Taylor, Seymour
 GLOVERSVILLE—Brown, A. B.
 Stewart & Jansen
 GROTON—Buck & Gobel
 Harris, F. B.
 HAMBURG—Schummer, M. & Son
 HAMILTON—Smith Hardware Co.
 Still, E. C.
 HAVERSTRAW—Straut, W. H.
 HERKIMER—Harter, M. S.
 ITHACA—Davis-Brown Elec. Co. (Inc.)
 JAMESTOWN—Chautauqua Electric Co.
 Jamestown Electric Co.
 KINGSTON—Carr, Harry P.
 Kingston Gas & Elec. Co.
 LIMA—Allen, M. P.
 Bauter, G. S.
 LITTLE FALLS—Burney, J. G.
 MAMARONECK—Miller, T. W. & E. H.
 NEWBURGH—Dotzert, Jas. H.
 Hewitt & Warden
 Hyer-Sheehan Electric Motor Co.
 NEW ROCHELLE—Farrel, John

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Brooklyn Elec'l Supply Co., 56
 Krabbe, Christian, 166 B'way Myrtle av.
 Thiemer, Edmund, 523 Nostrand av.
 Wilhelm, Henry, 70 Frost

Boroughs of Manhattan & Bronx.

NEW YORK—Bender, Geo., 137 Centre
 Berry, A. Hall, 97 Warren
 Bohn, C. C. Electric Co., 780 6th
BUNNELL, J. H. & CO., Park pl.
 & Church. (See adv. index, end of book)
 Burnet Co., 121 Maiden la
 Burry, John, 654 Hudson
 Caldwell & Outerhout Corporation (Mfrs.'
 Agts.), 165 Washington
 Central El. Supply Co., 29 W 15th
 Christensen, E., 194 7th av.
 Federal El. Co., 141 B'way
 Fletcher-Stanley Co., 32-34 Frankfort
 Frasse Co. (The), 134 Liberty
 Frorup, Louis E. & Co. (Imported Car-
 bons & El. Appliances), 234 Greenwich
FULLERTON CASE CO. (Electrical
Supplies of All Kinds), 100 W 26th
GENERAL ELECTRIC CO., 30
Church. (See adv. index, end of book)
 Glanini, Geo. W., 437-39 W 42d
 Goldmark, Jas. (Mfrs.' Agt.), 83 Warren
 Graham Bros. Co., 664 Hudson
GRISCOM-SPENCER CO., 90 West.
(See adv. index, end of book)
 Heefer, P., 1557 3d av.
 Holcomb, D. S., 60 Centre
 Holloway, Bentz & Co., 80 Cortlandt
 Hudson Electrical Supply Co., 54 Warren
 Independent El. Supply Co., 383 Canal
 International Elec. & Engineering Co.,
 (Exporters, Importers & Jobbers), 148
 Chambers
 Irish, W. F. Electric Co., 60 Cortlandt
 Jones Elec. Co., 62 Vesey
 Keeting Engineering & Supply Co., 119 Pearl

Latham, E. B. & Co., 4 Murray
 Leveridge, Chas. W., 183 Greenwich
 Livingston, J., Jr. & Co., 113 E 22d
 Lowe Electric Co., 54 Vesey
 Manhattan Electrical Supply Co. (Mfrs. & Jobbers), 17 Park pl
 May, Sol., 636 6th av.
 Metropolitan Elec. Supply Co., 176 Grand
 Morrison, Richard H., 1231 3d av.
 Ockerhausen, H. A., 103 E 9th
 Ostrander, W. R. & Co. (Mfrs. & Jobbers), 22 Dey
 Perfection Supply Co., 621 B'way
 Pratt, Wm. F. B., 25 W B'way
 Read, H. P. Lead W'ks. 645 Lexington av.
 Richardson, W. Gerry, 130 E 34th
 Roberts, G. I. & Bro., 471 4th av.
 Roesener, A. P., 172 E 120th
 Rousscau, D. M., 872 Lexington av.
 Royal Electric Supply Co., 48 W. 27th
 Sheehan, W. M. & Co., 136 Liberty
 Sibley & Pitman (Jobbers), 26 Warren
 Sprague Electric Co., 527 W 34th
 Stanley & Patterson (Electric House Goods, etc.), 23 Murray
 Storage Battery Supply Co., 239 E. 27th
 Thayer, W. N. Co., 784 6th av.
 Universal Elec. Stage Lighting Co., 1393 B'way
 Walsh, Owen Mfg. Co., 78-89 Barclay
 Werner, Jacob, 201 E 47th
 Western Electric Co. (Mfrs. & Wholesalers), 463 West
 Western El. Cons. Co., 42 B'way
 Whitehead, J. T., 1009 6th av.
 Woelarie, Geo. & Son, 2115 3d av.
 Zucker, Levett & Loeb Co., 516-24 W 25th
 (End of New York City)

NIAGARA FALLS—Elderfield-Hartshorn Hard-
 NORWICH—Latham, C. H. ware Co.
 OSWEGO—Elec. Cons. & Supply Co.
 Shaffer, J. W.
 PATCHOGUE—Aldrich, Wm. H.
 PEEKSKILL—Anderson, Homer
 Hewitt & Warden
 PORT JEFFERSON—Randall, A. N.
 POTTS DAM—Walling, W. A.
 POUGHKEEPSIE—Pease, Edward R.
 Van Benschoten, John
 RIVERHEAD—Corwin, D. A.
 Weed, Frederick A.
 ROCHESTER—Bradley, E. C. & Co.
 Fish & Horton Co.
 Rochester Elec. Motor Co.
 Syke, E. S.
 Wheeler-Green Elec. Co.
 ROCKVILLE CENTER—Connell, Wm. H.
 ROUSES POINT—Clinton & Jones
 SARANAC LAKE—Adirondack Hardware Co.
 SCHENECTADY—Burns, Jas. F. Elec. Works
 Finch & Hahn, 504 State
GENERAL ELECTRIC CO. (See
 adv. index, end of book)
 Sauter, G. F. Sanderson Co.
 SEACLIFF—Nassau County Elec. Cons. Co.
 SKANEATELES—Shotwell, Tucker & McGinn
 SODUS—Butts, Danford Co.
 SYRACUSE—Brower & Son, 317 E. Genesee
GENERAL ELECTRIC CO., S., A.
 & K. bldg. (See adv. index end of book)
 Gorke, H. J., 216 W Washington
 Joy, Edward, 125 Market
 Joy Electrical Supply House
 Mackenzie, C. C. & Co.
 Miller, Electric Co.
 Mohawk Electrical Supply Co.
 Roberts, H. C. El. Sup. Co., 113 N Warren
 Syracuse Supply Co., Syracuse, N. Y.
 Wheeler, Green Elec. Co.
 Williams, Edward O.
 THERESA—Rodenhurst, R. & Son
 TROY—Barnes & Payton, 273 River
 Bernard, E. G. Co., 1918-34 6th av.
 Finch & Hahn
 Foy, H. A., 610 2d av.
 Hinsdill-Pickering Elec. Co., 504 Fulton
 UTICA—Bailda Elec. Co., 65 Columbia
 B. & C. Elec'l Cons. Co., Shubert bldg.
 Davenport, Elec. Co. (The) 25½ Devereux
 Dent, Matthew F. Co., 7 Blandina
 Hooks, M. E., 41 Charlotte
 Utica Electrical Co., 67 Columbia
 Williams, G. G., 44 Whiteboro
 WATERFORD—Duffy, John J.
 WATERTOWN—Eager Elec. Co.
 Green Elec'l Supply Co.
 Wilson, A. R.
 WATKINS—Durland, L. H. & Son
 WESTBURY STATION—Lascelle, Geo. W.
 WESTFIELD—Gebbls, H. W. & Co.
 WORCESTER—Elitapence & Co.
 YONKERS—Nugent, A. W., 5 Dock
 Westchester Elec'l Equipment Co., 34 N B'way

NORTH CAROLINA.

ASHEVILLE—Piedmont Electric Co.
 CHARLOTTE—American Mach. & Mfg. Co.
 Washburn, A. H.
 GREENSBORO—Central Elec. Co.
 McAdoo, T. J.
 HIGH POINT—High Point Elec. Supply & Wellborn Supply Co. Cous. Co.
 RALEIGH—Carolina Elec'l Co., 110 Fayetteville
 REIDSVILLE—Giles & Montgomery Hardware
 Whittemore-Mobley Hardware Co. Co.
 SALISBURY—Salisbury Supply & Com. Co.
 STATESVILLE—Home Electric Co.
 WILMINGTON—Southern Electric Co.
 WILSON—Mayo Bros.

NORTH DAKOTA.

MINOT—Munz Bros.

OHIO.

AKRON—Loomis, C. H.
 ASHTABULA—Hubbard, Geo. C. Elec'l Hard-
 Topky Bros. ware Co. (The)
 BELLEFONTAINE—Osborn & Churchill
 BELLEVUE—Calhoun, D.
 BLOOMDALE—Swartz, Ira A.
 BLUFFTON—Lugibihl, A. D.
 BRYAN—Bishop, C. E. & Co.
 CAMBRIDGE—Branthoover & Johnson
 CANTON—Canton Engineering & Elec'l Co., 405 N Market
 Canton Supply Co., 212 E 8th
 Chapman Plumbing & Supply Co., 204 W 8th
 Kuehn Elec. Co.
 CHARDON—Bostwick, R. I.
 CINCINNATI—Beattie Elec'l Co., 324 E 4th
 Becker, Albert S., 8 W 6th
 Cincinnati Elec. Cons. Co., 324 W 4th
 Creaghead Engineering Co., 340 Main
 Devere Elec. Co., 234 W 4th
GENERAL ELECTRIC CO., Perin
 bldg. (See adv. index, end of book)
 Johnson-Kennedy Elec. Co. (The), 244-46 E 5th
 Lawrence, F. D. Electric Co., 219 W 4th
 Post-Glover Electric Co., 316 W 4th
 Reuter, W. G., 25 E 6th
 Standard Electric Co., 113 W. 3d
 Steuger, E. H., 715 Vine
 Western Elec. Co., 301-5 Walnut
 CLEVELAND—Barr, W. J. Elec. Mining Co., 1555 Columbus rd, N. W.
 Cleveland El. Supply Co., 726 Prospect av
 Cleveland Switchboard & Electric Mfg. Co., 430 Prospect av, N W
 Electric Supply & Battery Co., 7510 Woodland av.
 Electrical Repair & Cons. Co., 2060 E 4th
 Elliott, S. K. Electric Co.
 Enterprise Electrical Co., 5307 Euclid av
 Erner Elec. Co., 118-24 E St. Clair av.
 Gainer Elec. Cons. Co., 80 Public sq.
GENERAL ELECTRIC CO., Citi-
 zens' bldg. (See adv. index, end of book)
 Leonard-Bundy Electric Co., 433 Champlain
 McIntosh Hardware Corp., 725 Superior
 North Electric Co.
 Ohio Elec. Works (& Elec'l Novelties)
 Ruprecht Electrical Co., 7117 Cedar av, S E
VAN DORN ELECTRIC & MFG.
 Co., 2694 E 79th. (See adv. index, end of book)
 Worthington, Geo. Co. (The), 814 St. Clair av, N. W.
 COLUMBUS—Elec. Supply & Cons. Co. (The), 48 N 3d
 Erner & Hopkins Co., 162 N 3d
 McKeever Elec. Co. (The), 114 N 3d
 Ridgway & Co. Col. Savings & Trust bldg.
 Ross-Hull Elec. Co. (The), 114-16 N 3d
 Sackett Mine Supply Co. (The), 77 E Long
 OUYAHOGA FALLS—Loomis, L. W. Hard-
 ware Co.
 DAYTON—Butterworth & Reiter, 18 W 2d
 Globe Electrical Co., 139 W 3d
 Guyton, C., Elec. Co., 125 E 4th
 Hall, Wm. Elec. Co., 118 W 4th
 Tyson, Chas. Q. Co., 35 N Jefferson
 Wollaston & Waxler, 26 N Jefferson
 DELTA—Briggs Hardware Co. (The)
 ELYRIA—Rawson Elec. Co. (The)
 FINDLAY—Buckeye Electric Co.
 Electrical Cons. & Supply Co. (The)
 FOSTORIA—Fink, Geo. M.
 Hart & Co.
 FREMONT—Fey, Adam & Son
 HAMILTON—Hamilton Supply Co.
 HURON—Hull, Henry
 IRONTON—Ironton Incandes. Lt. & Supply Co.
 KENTON—Kenton Automobile & Elec. Co.
 LIMA—Reed Bros. Elec. Co.
 McCONNELLSVILLE—Smith, A. L.

MANCHESTER—McNeil Mercantile Co.
 MARIETTA—Sprague, B. S.
 MIAMISBURG—Beachler, Geo. W. & Son
 SANDUSKY—Lockwood, Wm. A.
 SPRINGFIELD—Lessner, Jos. S.
 TOLEDO—Bissell, F. Co., 226-230 Huron
 Duck, John D., 430 St. Clair
 Eddy, Chas. M., 819 Madison
 Grah, Emil, 1310 Adams
 Groff, G. T. Electric Co., 914 Monroe
 Nagel, W. G. Elec. Co.
 Toledo Electric Co., 116 St. Clair
 TROY—American Fixture & Mfg. Co.
 Schable & Smith
 Taylor, T. V. & Co.
 WAPAKONETA—Doering, J. H.
 WILLIAMSBURG—Fuhr, J. C.
 YOUNGSTOWN—Electric Wiring Co.
 Fergus Electric Co.
 ZANESVILLE—England, J. C.

OKLAHOMA.

CHICKASHA—Chickasha Elec'l Supply Co.
 EL RENO—Bonebrake Hardware & Implement
 El Reno Gas & Elec. Co. Co.
 MARLOW—Bledsoe, J. P. & Sons
 MUSKOGEE—Bellis, A. B.
 OKLAHOMA CITY—GENERAL ELEC-
 tric Co. (See adv. index, end of book)
 Vegliard Plumbing & Elec'l Supply Co. (The)
 PAWTHUSKA—Pawhuska Plumbing & Elec. Co.

OREGON.

ALBANY—Ralston Elec. Supply Co.
 ASHLAND—Provost Bros., Main
 ASTORIA—Astoria Hardware Co.
 FOREST GROVE—Goff Bros.
 PORTLAND—B. R. Elec. Tel. Mfg. Co. (The), 92 5th
 Fobes Supply Co., 94 7th
GENERAL ELECTRIC CO., Wor-
 cester bldg. (See adv. index, end of book)
 Manning, H. W., 43 3d
 Morrison Elec. Co., 291 E Morrison
 Pacific Elec. Engineering Co., 213 2d.
 Portland Elec'l Works, 351 Stark
 Skeen, Robert Elec. W'ks, 602 Washington
 Standard Elec. Co., 415 Alder
 Walsh, M. J. Co., 311 Stark
 Western Elec. Works, 61 6th

PENNSYLVANIA.

ALLENTOWN—Allentown Elec. Cons. & Sup-
 Jacoby, J. H. ply Co.
 Lehigh Electric Co.
 Smith Electric Co.
 Taylor, W. H. & Co.
 ALTOONA—Altoona Elec'l Engineering & Sup-
 Hart Electric Co. ply Co.
 Michaels & Arnold
 BANGOR—Stofflet, T. J.
 BEAVER FALLS—Skiff, Chas. W.
 BETHLEHEM—Hill, G. Elliott
 Switchboard Equipment Co.
 BLAIRSVILLE—Ray, S. & L. S. W.
 BRADDOCK—Randolph Electric Co.
 CAMBRIDGE SPRINGS—Elec'l Equipment Co.
 CARLISLE—Hall, Wm. N., Jr.
 CATASAUQUA—Deerner & Litzenberger
 CHAMBERSBURG—Schaff, J. G. Elec. Co.
 CHESTER—Taylor, John, 504 Market
 CONNELLSVILLE—Interstate Electric Co.
 CORAOPOLIS—Ferre, R. W.
 EAGLES MERE—Kahrer, R. D.
 EASTON—Electric Appliance Mfg. Co.
 ERIE—Electric Equipment Co.
 Erie Company
 Erie Mfg. & Supply Co.
 Star Elec'l & Garage Co.
 FRANKLIN—Electrical Supply & Cons. Co.
 GIRARD—Girard Hardware Co. (The)
 GLEN ROCK—Glen Rock Novelty Works
 HARRISBURG—Dauphin Elec'l Supplies Co.
 HAZLETON—Bright, J. C. & Co.
 Woodring, Jere & Co.
 HUNTINGTON—Free, E. S.
 INDIANA—Indiana Electric Co.
 IRWIN—Dunseath, W. G.
 KITTANNING—McCullough, Jas., Jr.
 LANCASTER—Lancaster Electric Supply & Construction Co.
 LEBANON—Lebanon, Electric Co.
 LEHIGHTON—Bauchspies, R. H., Jr.
 McKEESPORT—Dunshee Electric Co.
 MAHANAOY CITY—Hersker, J.
 NANTICOKE—Harris, E. R., Jr.
 NEW BETHLEHEM—McEwen, H. C.
 NEW KENSINGTON—Armitage Bros.
 Klininsmith, H. L. & Sons
 NORRISTOWN—Cressman & Quillman
 Siegler, Smith & Yocum
 OIL CITY—Corrin, W. H.

OLYPHANT—Lally, Jas. H.
PHILADELPHIA—Brown, Frank P., 45 N 6th
 Central Electric Co., 13 N 13th
 Cutter Electrical & Mfg. Co., 19th & Ham-
 Diehl Mfg. Co., 1217 Filbert
 Electric Service Supplies Co., 1020 Filbert
 Elliott-Lewis Elec'l Co., 138 N 10th
GENERAL ELECTRIC CO., Withers-
 spoon bldg. (See adv. index, end of
 Gentel, Albert, 150 Columbia av. book)
GRISCOM-SPENCER CO., ft. Wash-
 ington av. (See adv. index, end of book)
 Jones-Beach Co., 204-06 N 4th
 Marsh, Loan J., 1941 Market
 Naumann, Hardware & Supply Co.
 Oestmann, W. G., 5423 Germantown av.
 Paullin & Mitchell, 1826 Ridge av.
 Phila. Electrical & Mfg. Co., 2011 Market
 Pringle Elec. Mfg. Co. (The), 1906 N 6th
 Richter, Eugene L. Elec. Co., 1914 Colum-
 bla av.
 Roberts, H. C., Elec. Supply Co., 905 Arch
 Rumsey Electrical Mfrs. Co., 1211 Filbert
 Seyforts, L. F. Sons (Inc.), 437-41 N 3d
 Shaw, J. Elliott Co., 632 Arch
 Stewart, Frank H. Electrical Co., 35 N 7th
 Walker Electrical Co., 2338 Noble
 Walker & Kepler, 531 Chestnut
 Watts & Stern, 1303 Buttonwood
 Western Elec. Co., S. W. c. 11th & York
PITTSBURGH—Cooke-Wilson Elec. Supply Co.,
 Crescent Elec. & Mfg. Co., 24th 200 3d
 Doubleday-Hill Electric Co., 919 Liberty av
 Farrell Bros., 1143 Penn av.
 Gellatly & Co., 223 4th
GENERAL ELECTRIC CO., Park
 bldg. (See adv. index, end of book)
 Goettman, Oscar J., 817 Ohio, N side
 Incandescut Supply Co., 436 6th
 Iron City Engineering Co., Frick bldg. An-
 nex
 McCullough, W. T. Elec. Co., 2315 Penn av
 Pittsburg Elec'l & Machine W'ks. 2 Parker
 Richey & Sykes, 5906 Penn av. pl.
 Robblus Electric Co., 830 Liberty av.
 Saylor Electric Co., 127 4th av
 Union Electric Co., 31 Terminal way
WESTINGHOUSE ELECTRIC & MFG.
 Co., Union Bank bldg. (See adv. index,
 end of book)

POTTSTOWN—Roeller, W. H.
PUNXSUTAWNEY—Pifer & Rowan
 Punxsutawney Cycle Co.
READING—Arrowsmith & Co.
 Metropolitan Electric Co.
 Reading Elec. Co. (The), 9 N 15th
SAYRE—Robert, Geo. L. Co.
SCOTTSDALE—Dick, J. I.
SCRANTON—Fries, W. H.
 Scott, C. B.
 Scranton Elec. Cons. Co.
 Smith, F. R.
SEWICKLEY—Handy, S. B.
SHICKSHINNY—Woodworth, J.
SOUDERTON—Montgomery Electric Co.
SOUTH BETHLEHEM—Drumbor, Chas. E.
 Jacoby, J. H.
SUNBURY—Wetzel & Gass
TAMAQUA—Hadlisy & Co.
 Sellgman & Co.
UNIONTOWN—Helwey, W. H.
 Weller, C. J.
VANDERGRIFT—Hamilton, S. W.
WATSONTOWN—Follmer & Wilson
WAYNESBURG—Denny, E. L. & Co.
 Parker, C. R. & Co.
WILKES-BARRE—Penna. Armature Works
 Roth, Ernest F.
 Shepherd & Rust
YORK—Britthart, Wm. E., 409 Mkt
 Graybill, Jno. E. & Co.
 Stuck, O. L., 239 N George
 York Elec. & Machine Co., 30-34 N Penn
 York Engineering Co., c. N George & Ham-
 ilton av.

PHILIPPINE ISLANDS.

MANILA—Bryan, Landon & Co., 25 Plaza
 Goll

RHODE ISLAND.

NEWPORT—Barker Bros. & Co.
 Conroy, Philip F.
 Dickson, John D.
 Scannevin & Potter
PAWTUCKET—Duffy Bros. Hardware Co.
 New England Machine & Elec. Co.
 Toole, W. K. Hardware Co.
PROVIDENCE—Bush, Chas. S. Co., 17 Rich-
 Cohen, J. B. Hardw. & Supply Co. mond
 Herbert, Geo. W. & Co.
 Law & Hawhurst
 Rhode Island Telephone & Elec. Co.
 Thompson Hardware & Chandeller Co.
 Union Hardware & Electric Supply Co.

WARREN—Sparks, C. H.
WESTERLY—Hiscox, Robert M. & Co.
 Whitall Electric Co.
WOONSOCKET—Darling, Chas. H.
 Darling, E. R.

SOUTH CAROLINA.

BRANCHVILLE—Branchville Elec. & Tele-
 phone Co.
CHARLESTON—Elec. Supply Co., 163 Meeting
 Hazellurst Elec. Co., 194 King
 McMillan, John, 182 King
GREENVILLE—Carolina Supply Co.
ORANGEBURG—Dautzler, M. O.
 McNamara, John
SPARTANBURG—Shares Electric Co.

SOUTH DAKOTA.

BROOKINGS—Getty, Robt. J.
SIOUX FALLS—Wheeler, Geo. E.

TENNESSEE.

CHATTANOOGA—Sweet, Frank P., 921 Mar-
 Terrell-Hedges Co., 108 E 8th ket
JOHNSON CITY—Johnson City Electric Co.
 Summers, Parrott Hardware Co.
KNOXVILLE—Acme Elec. Co., 702 S Gay
MEMPHIS—Bailey, J. A. & Co., 70 S 2d
 Electric Novelty Co., 125 Monroe
 Electric Supply Co., 298 2d
 Memphis Elec. Co., 285 Madison
NASHVILLE—Braid Electric Co.
 Chester, John W. Co.
 Consolidated Electric Co.
GENERAL ELECTRIC CO., Stahl-
 man bldg. (See adv. index, end of book)
 Southern Electric Co.
 Standard Electric Co.

TEXAS.

BEAUMONT—Christopher Elec. Co.
 Keith Electric Co.
DALLAS—Central Telephone & Elec Co.
 Electric Appliance Co.
GENERAL ELECTRIC CO., Scol-
 lard bldg. (See adv. index, end of book)
 Hobson El. Co.
 Peyton, Hunter J.
 Southwestern Elec'l Engineering & Cons
 Co.
DENISON—Waltz, Chris.
EL PASO—Pass City Elec. Co.
 Texas Elec'l Supply Co.
FORT WORTH—Anderson, A. J.
 Bound, Geo. Electric Co.
 Miller El. Co.
 Wesco Supply Co.
GALVESTON—Levy, Max
 Lowe Electric Co.
 Rowley, Wm.
 Tschumy, L. P. & Co.
GREENVILLE—Armistead & Eude
HOUSTON—Barden, Elec. & Machinery Co.
 Brown, Woods Elec. Co.
 Hobson, Electric Co.
OZONA—Ozona Hardware Co.
SAN ANTONIO—Collins-Gunther Co.
 Schuwirth, Wm. G.
 Shafer, A. H.
 Talcott Electric Co.
 Wright, Martin
TROUPE—Troupe Hardware & Imp. Co.
WACO—Central Electric Co.
 Vesey Electric Co.
 Waco Electrical Supply Co.

UTAH.

BEAVER—Harris Furniture Co.
 Mansfield, Murdock & Co.
BRIGHAM—Mortensen, N. C. & Sons
OGDEN—Electric Supply & Fixture Co.
RICHFIELD—Richfield Electric Supply Co.
SALT LAKE CITY—Allen, T. G. Elec. Co.,
 128 S State
 Capital El. Co., 151 S Main
GENERAL ELECTRIC CO., Dooly
 bldg. (See adv. index, end of book)
 Holding, E. G., 53 W 1st, S
 Inter-Mountain Elec. Co., 13 S Main
 Utah Elec. Supply Co., 15 W 1st, S
 Western Electric Co.
 Wiser Electric Co.

VERMONT.

BURLINGTON—Lanon, J. E.
 Sherwin, Geo. D.
MONTPELIER—Blanchard, Fred
NEWPORT—True & Blanchard
RANDOLPH—McIntyre, H. W.

VIRGINIA.

CULPEPER—Gilkeson & Co.
DANVILLE—Ellwanger, Aug.
HARRISONBURG—Houck, Jos. T.
LYNCHBURG—Burns, T. J. & Co.
MARTINSVILLE—Martinsville Elec'l Supply
 Co.
NEW MARKET—Moore, C. H.
NORFOLK—Atlantic Electric Co.
 Belote, J. D.
 Buckard, Wm. A. & Co.
 Standard Electric Supply Co.
PETERSBURG—Virginia El. Tool & Mfg. Co.
RICHMOND—Jenks, Wm. H.
 McGraw, Jas.
 Tower-Blnford Electric & Mfg. Co. (Mrs.
ROANOKE—Engleby Elec. Co. & Jobbers)
 Wolfenden, W. E.
SUFFOLK—Atlantic Coast Telephone Co.

WASHINGTON.

ANACORTES—Shannon, G. W. & Co.
BELLINGHAM—Bellingham Elec'l Supply Co.
CENTRALIA—Central Supply House
PORT TOWNSEND—Pacific Electric Co.
SEATTLE—American Elec. Co. (Inc.), 118 3d
 av, S
 Buxbaum & Cooley 64 W Columbia
 Cascade Gas & Elec. Fixture Co., 1517 2d
 Fobes Supply Co., 1406 1st av
GENERAL ELECTRIC CO., Col-
 man bldg. (See adv. index, end of book)
 Kilbourne & Clark (Inc.), 307 1st av, S
 Seattle Elec. Co. (The), 907 1st av.
 Seattle Elec. & Equipment Co., 507 Pike
 Western Elec. Co., 1518 1st av. S
SPOKANE—Doerr, Mitchell & Co.
 Empire Electric Co.
 Inland Electric Co.
 Nixon & Kimmel
 Oliver, Warren
 Washington Elec. Supply Co. (The)
TACOMA—Bowie-Love Co.
WALLA WALLA—El. Supply & Fixture Co.

WEST VIRGINIA.

CHARLESTON—Charleston Elec'l Supply Co.
FAIRMOUNT—Mayers, D. L.
HUNTINGTON—Miller Supply Co.
KEYSER—Siever Hardware Co.
NORTH FORK—North Fork Electric Co.
PARKERSBURG—Citizens' Electric Co.
 Parkersburg Machine Co.
WHEELING—American Electric Co.
 Gee Electrical Construction Co.
 Sands, H. S., Electric & Mfg. Co.
WILLIAMSON—Elec. Supply & Cons. Co.

WISCONSIN.

APPLETON—Kurz & Root
 Langstadt Meyer Cons. & Supply Co.
ASHLAND—Perrin, C. F.
BEAVERDAM—Rossmann, Fred.
BERLIN—Peck, C. A. Hardware Co.
COLBY—Krepsky & Sou
 Zillman Bros.
ELKHORN—Freligh, Chas.
 Hotchkiss, C. C.
EVANSVILLE—Meyers Electrical House
FENNIMORE—Mauer Bros.
 Roach Bros.
FLORENCE—Peterson, Ed. W.
FOND DU LAC—Briggs Electric Co.
GREEN BAY—Joannes, F. E.
 Langstadt-Meyer Cons. & Supply Co.
INDEPENDENCE—Lever & Forgeron
MADISON—Electrical Supply Co.
 Harloff, P. F.
 Independent Telephone Mfg. Co.
MENOMONIE—Merrill, Wright, H. W. Lumber
 Submerged Elec. Motor Co. Co.
MILWAUKEE—Andrae, Julius & Sons Co., 225
 Boettger & Wittig, 393 3d W Water
 Dewey, Robt., 268 W Water
 Eckhardt & Flossman, 397 3d
 Meyer, L. A. & Co., 450 E Water
 Milwaukee Telephone & Mfg. Co., 390-92
 Pierce, Edwin F., 108 Mason Hanover
 Rohn, Geo. F., 446 E Water
 Schmidt, A. R., 137 Oneida
 Smith, Albert, 169 W Water
NEILSVILLE—Tourigny, Denis
OSHKOSH—Central Construction Co.
 Hinman, J. A.
RACINE—Electrical Construction Co.
 Roberts, D. Elmer
SHEBOYGAN—Acker & Schliffendor
 Warden, Farrall & Co.
STURGEON BAY—Hay, J. S. Hardware Co.
SUPERIOR—Eckholm Bros.
WAUKESHA—Christoph, J. B.

WAUSAU—Evans, H. J.
WAUWATOSA—Hemslng, H. P. Co.
Smith, A. I. Co.

WYOMING.

CHEYENNE—Wright & Lawson
LARAMIE—Holliday, W. H. Co. (The)
Jones, J. Thorburg

Electro Magnets (Special Winding of)

McDermid Mfg. Co., 118 W Jackson boul, Chicago, Ill.

Electro Plating

American Car & Ship Hardware Mfg. Co., New Castle, Pa.
American Plating Co. (All Kinds), 181 W Maple, Columbus, O.
Beverly Engine & Machine Co., Beverly, Mass.
Buckeye Electro Plating Co., Mansfield, O.
Buckeye Mfg. Co. (All Kinds), Canton, O.
CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)

Cooke, Jos. S., 20 Jacob, New York
Derby & Morse, Lowell, Mass.
Detroit Shipbuilding Co. (Brass Dept), Detroit, Mich.

Donovan Wire & Iron Co., Toledo, O.
Edwardsville Brass Co., Edwardsville, Ill.
Enterprise Brass Works (Frank Holt, Prop.), Muskegon, Mich.
Filley, Harvey Plating Works, 1011 Spring Garden, Phila., Pa.
Gauger, Jno. L. Co., 22d & Wood, Phila., Pa.
Gray Iron Foundry Co., Reading, Pa.
Harware & Woodenware Mfg. Co., 693 B'way, New York

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)

Johnson Service Co. (Nickel, Copper, Brass, Bronze, Silver & Gold), Milwaukee, Wis.
Keystone Plating Co., 2035 N Alder, Phila., Pa.
Ludlow-Saylor Wire Co., Newstead av & Wash R. R., St. Louis, Mo.
McKenna Bros. Brass Co. (Ltd.) (Nickel Silver, Oxidized, Copper, etc.), Pittsburg, Pa.
McMurray, Robt. T. & Bro., 365 Harmon, Brooklyn, N. Y.

Megqueler & Jones Co., Portland, Me.
Meyer, Louis J., 104 S 8th, Philadelphia, Pa.
MEYERS, FRED J. MFG. CO., Hamilton, O. (See adv. index, end of book)

Minneapolis Brass & Iron Mfg. Co., 116 1st av, N. Minneapolis, Minn.
Monumental Plating Works, 106 Hanover, Baltimore, Md.

Murdock-Shaw Co. (Bronze, etc.), Boston, Mass.
Muskegon Electro Plating Co., Muskegon, Mich.
Ohio Brass Co., Mansfield, O.
Ohio Plating Works, Columbus, O.

Purcell, N. F., & Co. (also Buffing & Polishing), 232 S Clinton, Chicago, Ill.
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City

SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)
Sercomb Co., 195 State, Chicago, Ill., & Cincinnati, O

Sharpless & Watts, 15th & Walnut, Phila., Pa.
Southern Electro Plating Works, 80 S Pryor, Atlanta, Ga.

Standard Plating Works, 446 N 12th, Phila., Pa.
Stecker Electric & Machine Co., 34 Bates, Detroit, Mich.

Superior Mfg. Co., Pittsburg, Pa.
Taylor & Boggis Foundry Co., Cleveland, O.
Tucke & Parker, Lowell, Mass.

VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge W., Detroit, Mich. (See adv. index, end of book)

Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.
W. & S. Mfg. Co., Worcester, Mass.
White Ornamental Iron Works, Oakland, Cal.
White Wire Works Co., Rochester, N. Y.

WISCONSIN IRON & WIRE WORKS (Bronze), 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Electro Plating (Bronze)

(See also Electro Plating)

GORHAM CO. ARCH'L BRONZE. 5th av & 36th, New York. Works, Providence, R. I. (See adv. index, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)

MEYERS, FRED J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Murdock Shaw Co., 125 Federal, Boston, Mass.
SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

WINSLOW BROS. CO., Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

Electro-Pneumatic System of Control

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Electrodes

BUNNELL, J. H., & CO. (Galvanic, Faradic, etc.), Park pl & Church, New York. (See adv. index, end of book)

International Acheson Graphite Co., Niagara Falls, N. Y.

National Carbon Co., W Madison & Highland avs, Lakewood, Cleveland, O., & Washington, Pa.
Scheidt-Western X Ray Coil Co. (Glass & Metal), 199 Madison, Chicago, Ill.

Electrogrip (Drop Light)

Yost Electric Mfg. Co. (For Suspended Lights & Cords), Toledo, O.

Electroliers

(See Gas & Electric Fixtures)

Elevating & Conveying Machinery

(See Machinery, Elevating & Conveying; also Conveyors of Various Kinds)

Elevator Air Cushions

Ellithorpe Safety Air Cushion Co., 31 B'way, New York

Elevator Annunciators

(See also Annunciators)

Electric Mfg. & Equipment Co., Atlanta, Ga.
ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill.; 114 Liberty, New York & 593 Market, San Francisco, Cal. (See adv. index & branch offices, end of book)

Garl Electric Co., Akron, O.
Herzog, Teleseme Co., 51 W. 24th, New York.

ELECTRIC SIGNALS

FOR

HOTEL PASSENGER ELEVATORS ELEVATOR SUPPLY & REPAIR CO.

114 LIBERTY ST. 76 W. MONROE ST.
NEW YORK CHICAGO
593 MARKET ST., SAN FRANCISCO, CAL

Elevator Cables

(See Wire Rope & Cables)

Elevator Cabs or Cars

American Fence & Forge Co., Dayton, O.
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)

BOLLES, J. E. IRON & WIRE Works, 4th av and Porter, Detroit, Mich. (See adv. index, end of book)

Bradley & Hubbard Mfg. Co., Meriden, Conn.
BROWN BROS. MFG. CO., 22d & Campbell, Chicago, Ill.

Buffalo Wire Works Co. (Cabs), Buffalo, N. Y.
CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)

CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.

Columbus Elevator & Machine Co., Curtis and Jefferson avs, Columbus, O.

COLUMBIA IRON & WIRE WORKS CO., Canton, O. (See adv. index, end of book)

COLUMBUS WIRE & IRON WORKS Co., Columbus, O. (See adv. index, end of book)

DARBY, EDW. & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)

Donovan Wire & Iron Co., Toledo, O.

Dow Wire & Iron Works, Louisville, Ky.
Dufur & Co., 311 N. Howard, Baltimore, Md.

ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)

ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)

FLOUR CITY ORNAMENTAL IRON Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index, end of book)

HALSTED, JOSEPH CO., 388 W. Randolph, Chicago, Ill. (See adv. index, end of book)

HANKE IRON & WIRE WORKS, 1234 Fillmore, Chicago, Ill. (See adv. index, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Henry-Bonnard Bronze Co., Sales Office: 5 E 42d, New York; Works: Mount Vernon, N. Y.

JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)

LANDON, E. R. IRON & WIRE WORKS, 18 N May, Chicago, Ill. (See adv. index, end of book)

Lasar-Letzig Mfg. Co., 1313 N 16th, St. Louis, Mo.

Lebel-Andrews Co., 531 W 55th, New York.
Ludlow-Saylor Wire Co., Newstead av & Wash R. R., St. Louis, Mo.

Merle Ornamental Iron & Bronze Co., San Francisco, Cal.

MEYERS, FRED J. MFG. CO., Hamilton, O. (See adv. index, end of book)

Morss & Whyte Co., 75 Cornhill, Boston, Mass.

National Mfg. Co., Worcester, Mass.

Richey, Browne & Donald, Maspeth, Borough of Queens, New York City

SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

SOMMERVILLE IRON & BRONZE Co., 5637-5649 Butler, Pittsburg, Pa. (See adv. index, end of book)

STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)

TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa. (See adv. index, end of book)

Tiffany Studios, 347 Madison av, New York

TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

VAN DORN IRON WORKS CO., 2685 E 79th, Cleveland, O. (See adv. index, end of book)

Villsack, Martin Co. (Ltd.), 3222 Penn av, Pittsburg, Pa.

West Coast Wire & Iron Works, San Francisco

White Ornamental Iron Works, Oakland, Cal.

WINSLOW BROS. COMPANY, Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

WRIGHT WIRE CO. (All Metals & Finishees), Worcester, Mass. (See adv. index & branch offices, end of book)

When writing to firms listed in this book please mention

HENDRICKS' COMMERCIAL RECISTER

Elevator Car Signals

(See Elevator Signals)

*Elevator Casings (Fireproof)

AMERICAN METAL DOOR CO., Jamestown, N. Y. (See adv. index, end of book)
DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y. (See adv. index & branch offices, end of book)

Elevator Controllers

(See Controllers, Electric Elevators; also Elevator Safety Controllers)

Elevator Door Locking Devices

(See Elevator Safety Locks)

Elevator Door Openers & Closers

(See also Elevator Safety Devices)

Automatic Elevator Door Co., 182 Ogden av, Milwaukee, Wis.
Burdett-Rowntree Mfg. Co. (Automatic), 85 W Jackson boul, Chicago, Ill., & 147 W 26th, New York
ELEVATOR SUPPLY & REPAIR CO., 34 Monroe, Chicago, Ill., & 136 Liberty, New York. (See adv. index, end of book)
Union Elevator & Machine Co. ("Union" Automatic), 28 Market, Chicago, Ill.

Elevator Doors (Automatic)

(See also Hatch Doors)

Bardsley Bros., 147 Baxter, New York
Beckwith Elevator Co., 123 Pearl, Boston, Mass.
BOLLES, J. E. IRON & WIRE WKS., 4th av & Porter, Detroit, Mich. (See adv. index, end of book)
Central Iron Works, Equitable bldg, Des Moines, Iowa
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
HANKE IRON & WIRE WORKS ("The Meeker"), 1234 Fillmore, Chicago, Ill. (See adv. index, end of book)
KINNEAR MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
LANDON, E. R. IRON & WIRE WORKS ("The Meeker"), 18 N May, Chicago, Ill. (See adv. index, end of book)
KINNEAR & GAGER MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Queen City Wire Works, 193 Seneca, Buffalo, N. Y.
REEDY, H. J. CO (Inc.), (Standard Styles), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
Richmond Safety Gate Co. (Kyrle S. Evans, Agt.), 31 W 27th, New York. Works, Richmond, Ind.
Rochester Automatic Elevator Door Co. (Fire Proof Safety Fire Doors), 291 Mill, Rochester, N. Y.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
STANDARD CO. ("Otis" Patent Two-Thirds Opening), Railway Exch bldg, Chicago, Ill. (See adv. index, end of book)

U. S. Elevator Co., 216 Dock, Phila., Pa.
Variety Mfg. Co. ("Cross Improved Meaker"), Sacramento & Carroll avs, Chicago, Ill.
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
Webb, J. R. ("Excelsior"), 545 W 22d, New York

Elevator Doors (Automatic Fire)

(See also Doors & Shutters, Fireproof)

Automatic Door & Gate Co., Missouri Trust bldg, 123 Liberty, New York
Banner Iron Works, Missouri Trust bldg, St. Louis, Mo.
Beckwith Elevator Co., 123 Pearl, Boston, Mass.
Blanchard, J. F. Co. ("Richardson's"), Fuller bldg., New York
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
Brodie, Wm. H. Co., 45 Vesey, New York.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Columbus Elevator & Machine Co. (Fusible Link), Curtis & Jefferson avs, Columbus, O.
DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y. (See adv. index, end of book)
Dentler Bagger Co., Vicksburg, Mich. (book)
KINNEAR MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
KINNEAR & GAGER MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
LANDON, E. R. IRON & WIRE WKS ("The Meeker"), Fillmore & Rockwell, Chicago, Ill. (See adv. index, end of book)
National Fireproof Sash & Door Co., 270 Moore, Brooklyn, N. Y.
New York Fire Proof Works, 721 E 133d, New York
RAPP, JNO. W. CO., General Office & Works, College Point, New York City. Sales Office, 4 Madison av, New York. (See adv. index, end of book)
REEDY, H. J. CO. (Inc.), 15 W. 2d, Cincinnati, O. (See adv. index, end of book)
Richmond Safety Gate Co. (Kyrle S. Evans, Agt.), 31 W 27th, New York. Works, Richmond, Ind.
Rochester Automatic Elevator Door Co. (Fireproof Safety Fire Doors), Rochester, N. Y.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
Stowell Mfg. & Foundry Co. ("Wilbern" & "Underwriters"), S Milwaukee, Wis.
THORP FIRE PROOF DOOR CO. ("Thorp-Richardson"), 1600-1610 Central av, Minneapolis, Minn. (See adv. index & branch offices, end of book)
Toops, E. D. (Gravity), Indianapolis, Ind.
Variety Mfg. Co. ("Cross" Folding), Sacramento & Carroll avs, Chicago, Ill.
Victor Mfg. Co., Newburyport, Mass.
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevator Doors (Bronze)

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Brown Bros. Mfg. Co., 22d & Campbell av, Chicago, Ill.
Burkhardt, John (Bronze), 606 W 55th, New York
CABARET, PAUL E. & CO., 342 W. 14th, New York. (See adv. index, end of book)
CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
CINCINNATI MFG. CO., Cincinnati, Ohio. (See adv. index, end of book)
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
FLOUR CITY ORNAMENTAL IRON WORKS, 27th st & 28th av, Minneapolis, Minn. (See adv. index, end of book)
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
Heath-Johnson Co. (Inc.), 123 Ontario, Chicago, Ill.
Hecla Iron Works, 118 N. 11th, Brooklyn, N. Y.
Henry-Bonnard Bronze Co., Sales Offices, 5 E 42d, New York.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)
MEYERS, FRED J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
SNEAD & CO. IRON WORKS, ft. Pine, Jersey City, N. J. (See adv. index, end of book)
STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
TYLER, W. S. CO., Cleveland, Ohio (See adv. index & branch offices, end of book)
Union Equipment & Bronze Co., 1901 Park av, New York
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
WINSLOW BROS. COMPANY, Main Office & Works, 2515 W Harrison av, Chicago, Ill. (See adv. index & branch offices, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Elevator Doors (Metal)

(See Elevator Cabs or Cars)

Elevator Doors (Metal Covered)

Blanchard, J. F. Co. ("Richardson's") Fuller bldg., New York
Harris, S. H. Co. ("Meaker"), 29 Pearce, Chicago, Ill.
KINNEAR & GAGER MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

HENDRICKS' COMMERCIAL REGISTER
 IS NOT A CATALOG OF ADVERTISERS ALONE, BUT A COMPLETE REGISTER OF THE MANUFACTURERS AND JOBBERS IN EVERY LINE OF TRADE THAT COMES WITHIN THE SCOPE OF THE WORK.

RAPP, JNO. W. CO. (Kalameined)
Iron, Copper & Bronze), General Office &
Wks., College Point, New York City, & 4
Madison av, New York. (See adv. index,
end of book)
Richmond Safety Gate Co. (Kyrle S. Evans,
Agt.), 31 W 27th, New York. Works,
Richmond, Ind.
Ross, R. J. Mfg. Co. ("Meeker"), 692 W
Lake, Chicago, Ill.
Underwriters Hatch Door Co., Chicago, Ill.

Elevator Enclosures

Acme Fancy Wire Works, Detroit, Mich.
Ajax Iron & Wire Co., 75- York, Brooklyn,
N. Y.
Albrece, Chester B. Iron Works, Allegheny, Pa.
American Fence & Forge Co., Dayton, O.
Amos, Chas. & Co., Detroit, Mich.
Anderson, Henry O., 80 Pearl, New York
Architectural Iron & Wire Works, Wheeling,
W. Va.
Art Brass & Wire Works, Forest av & Ellery,
Detroit, Mich.
Atlanta Wire & Iron Works Co., 64 N Broad,
Atlanta, Ga.
Balderston, H. & Son, 319 Pearl, Baltimore,
Md.
Barbee Wire & Iron Works, 44 Dearborn, Chi-
cago, Ill., & Lafayette, Ind.
Barnum, E. T., Wire & Iron Works, 82
Washington av, Detroit, Mich.
Bataille, Achille & Co., 587 Hudson, New
York
BIGELOW, CHENEY WIRE WORKS,
Springfield, Mass. (See adv. index, end of
book)
BOLLES, J. E. IRON & WIRE WKS.,
4th av & Porter, Detroit, Mich. (See adv.
index, end of book)
Bradley & Hubbard Mfg. Co. (Brass &
Bronze), Meriden, Conn.
Brown Bros. Mfg. Co., 22d & Campbell av,
Chicago, Ill.
Brown-Ketcham Iron Works, Indianapolis, Ind.
Buffalo Wire Works Co., Buffalo, N. Y.
Burkhardt, John (Bronze), 622 W 55th, New
York
CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)
Chattanooga Iron & Wire Works, Chattanooga,
Tenn.
Chesapeake Iron Works, Bush & B & O R R,
Baltimore, Md.
CHICAGO ORNAMENTAL IRON CO.,
37th & Stewart av, Chicago, Ill. (See adv.
index, end of book)
CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of
book)
City Forge & Iron Works (Andrew Plocher,
Prop.), Dayton, O.
COLUMBIA IRON & WIRE WORKS CO.,
Canton, O. (See adv. index, end of book)
COLUMBUS WIRE & IRON WORKS
Co., Columbus, O. (See adv. index, end of
book)
Creswell, Sam'l J. Iron Works, 23d & Cherry,
Phila., Pa.
Crosman, Geo. J. Co., 607 E 18th, New York
Crown Iron Works, Minneapolis, Minn.
DARBY, EDW. & SONS CO., 239 Arch,
Phila., Pa. (See adv. index, end of book)
Deterding, Chris., San Francisco, Cal.
Donovan Wire & Iron Co., Toledo, O.
Dow Wire & Iron Works, Louisville, Ky.
Durfur & Co., 311 N Howard, Baltimore, Md.

Eagle Iron Works (Inc.), 850 De Kalb av,
Brooklyn, N. Y.
Edelmann, L., 1805 1st av, New York
ESTEY BROS. CO., Liberty & Greenwich,
New York. (See adv. index, end of book)
ESTEY WIRE WORKS CO., 59 Ful-
ton, New York. (See adv. index, end of
book)
FLOUR CITY ORNAMENTAL IRON
Works, 27th st & 28th av, Minneapolis,
Minn. (See adv. index, end of book)
FOREST CITY STEEL & IRON CO.,
110th nr Detroit av., Cleveland O. (See adv.
index, end of book)
Gaumer, Jno. L. Co., 22d & Wood, Phila., Pa.
Glen Mfg. Co., Ellwood City, Pa.
Grossman Bros. & Rosenbaum, 540 W 58th, New
York
HALSTED, JOSEPH CO., 388 W Ran-
dolph, Chicago, Ill. (See adv. index, end of
book)
HANKE IRON & WIRE WORKS, 1234
Fillmore, Chicago, Ill. (See adv. index,
end of book)
Heath-Johnson Co. (Inc.), 123 Ontario, Chicago,
Ill.
Hecla Iron Works (Brass & Bronze), 108 N
11th, Brooklyn, N. Y.
Henry-Bonnard Bronze Co., Sales Offices: 5 E
42d, New York; Works: Mount Vernon,
Herzog Iron Works, St. Paul, Minn. N. Y.
HOWARD & MORSE, 45 Fulton, New
York. (See adv. facing first page of index
of Contents)
Inglis, Wm. Wire & Iron Works, 59 E Wood-
bridge, Detroit, Mich.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York & 163 Michi-
gan av., Chicago, Ill. (See adv. index, end
of book)
Kamman, Walter, Spring Grove av & Mon-
mouth, Cincinnati, O.
Kansas City Wire & Iron Works, Kansas City,
Mo.
Kleeman, Trotter & Co., 1327 Main, Kansas
City, Mo.
LANDON, E. R. IRON & WIRE WORKS,
18 N May, Chicago, Ill. (See adv. index,
end of book)
Lobel-Andrews Co., 531 W 55th, New York
Ludlow-Saylor Wire Co., Newstead av & Wa-
bash R. R., St. Louis, Mo.
McKinney, Jas. & Son, 927 B'way, Albany,
N. Y.
Merle Ornamental Iron & Bronze Co., San
Francisco, Cal.
MERRITT & CO., Front & Arch,
Camden, N. J. (See adv. index, end of book)
MEYERS, FRED J. MFG. CO., Hamilton,
O. (See adv. index, end of book)
Midland Metal Co. (Inc.), 21st & Jefferson,
Phila., Pa.
Morss & Whyte Co., 75 Cornhill, Boston, Mass.
Mugler's Iron Works, 1133 E 136th, New York
Murdock-Shaw Co., 125 Federal, Boston, Mass.
National Mfg. Co., Worcester, Mass.
Nimmo Fence & Wire Works Co., 305 E 4th,
Cincinnati, O.
Ohio Elevator & Machine Co., Columbus, O.
PHOENIX STEEL CO. (Inc.), Putnam
& P. R. R., Pittsburg, Pa. (See adv. in-
dex, end of book)
Pioneer Iron & Wire Works Co., 1433 Market,
Denver, Colo.
Pirkil, John Iron Works (Inc.), 240 N 10th,
Brooklyn, N. Y.
Portland Wire & Iron Works, Portland, Ore.
Prince Iron Works, 553 W 33d, New York.

REMPPIIS, WM. F. CO., Reading,
Pa., & 1506 Sansom, Phila., Pa. (See adv.
index, end of book)
Richey, Browne & Donald, Maspeth, Borough
of Queens, New York City
RIESECK, P., Allegheny av & Re-
becca, Allegheny, Pa. (See adv. index, end
of book)
St. Louis Wire & Iron Co., 518 Chouteau av,
St. Louis, Mo.
SCHREIBER, L., & SONS CO., 8th & Eg-
gleston av, Cincinnati, O. (See adv.
index, end of book)
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
SNEAD & CO. IRON WORKS, ft of
Pine, Jersey City, N. J. (See adv. index,
end of book)
Snow Wire Works Co., 78 Exchange, Rochester,
N. Y.
SOMMERVILLE IRON & BRONZE
Co., 5637-5649 Butler, Pittsburg, Pa. (See
adv. index, end of book)
Southern Wire & Iron Works, Atlanta, Ga.
STANDARD CO., Railway Exchange
bldg, Chicago, Ill. (See adv. index, end
of book)
Sterling Bronze Co., 107 W. 25th, New York
Syracuse Wire Works, Syracuse, N. Y.
TAYLOR & DEAN, Penn av & 25th, Pitts-
burg, Pa. (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
Titchener, E. H. & Co., Binghamton, N. Y.
Tiik, Frank Ornamental Iron Works Co., Kan-
sas City, Mo.
Toledo Wire & Iron Wks., Toledo, O.
TYLER, W. S. CO., Cleveland, O.
(See adv. index & branch offices, end of book)
Union Equipment & Bronze Co., 1901 Park
av, New York
UNION FOUNDRY WORKS, First Na-
tional Bank bldg, Chicago, Ill. (See adv.
index, end of book)
Union Steel Screen Co. (Ltd.) Albion, Mich.
VAN DORN IRON WORKS CO., 2685 E
79th, Cleveland, O. (See adv. index, end
of book)
Vilsack, Martin Co., 3222 Penn av, Pittsburg,
Pa.
Voss, Fredk., 621 Austin av, Chicago, Ill.
Wells Architectural Iron Co., 219-221 E 144th,
New York
White Bros. Mfg. Co., Denver, Colo.
White Ornamental Iron Works, Oakland, Cal.
WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison, Chicago,
Ill. (See adv. index & branch offices, end of
book)
WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)
WRIGHT WIRE CO. (All Metals &
Finishes), Worcester, Mass. (See adv. in-
dex & branch offices, end of book)

Elevator Gates

(See Gates, Folding, Etc.)

Elevator Gates (Automatic)

Altizer & Prince, 51 Michigan, Chicago, Ill.
Automatic Door & Gate Co. ("Peelle" Safety),
123 Liberty, New York
Bardsley Bros., 149 Baxter, New York
Bataille, Achille & Co., 587 Hudson, New York
Beckwith Elevator Co., 123 Pearl, Boston,
Mass.

CHENEY BIGELOW WIRE WORKS

MANUFACTURERS OF

Elevator Enclosures and Cabs

FOURDRINIER WIRES AND PAPER MILL MACHINERY

OFFICE RAILINGS, WINDOW GUARDS, ETC.

Established 1842

SPRINGFIELD, MASS.

Incorporated 1887

Burdett-Rowntree Mfg. Co., 85 W Jackson boul, Chicago, Ill.
 California Artistic Metal & Wire Co., 539 Mission, San Francisco, Cal.
 City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
 Columbus Elevator & Machine Co., Curtis & Jefferson av., Columbus, O.
 Craig, W. H. & Co. (and Half Automatic), 415 6th av. S. Minneapolis, Minn.
 Houser Elevator Co., Syracuse N. Y.
KIECKHEFER, A. ELEVATOR CO., Milwaukee, Wis. (See adv. index, end of book)

Kimball Bros. Co., Council Bluffs, Ia.
 Knickerbocker Elevator Gate Co., 79 Cortlandt, New York
 Lagerquist, Gust. (& Half Automatic), 516 N 3d, Minneapolis, Minn.
 Marshall Bros., S 21st & Mary, Pittsburg, Pa.
MERRITT & CO., Front & Arch, Camden, N. J. (See adv. index, end of book)
PITT, WM. R. COMPOSITE IRON Works ("Pitt-Bostwick"), 111 5th av, New York. (See adv. index, end of book)
 Quincy Elevator Gate Co., Quincy, Ill.
REEDY, H. J. CO. (Inc.) (Full Automatic), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
 Richmond Safety Gate Co., Richmond, Ind.
 Salem Elevator Works, Salem, Mass.
SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O. (See adv. index, end of book)
 Security Elevator Safety Co., 11 B'way, New York

SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., 128 Liberty, New York (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Stevens, Wm. (Est. of) (Safety Hatch Gates), 1221 Frankford av, Phila., Pa.
 Stewart Iron Wks. ("Bostwick"), Covington, Ky.
STORM MFG. CO., Newark, N. J. (See adv. index & branch offices, end of book)
TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa. (See adv. index, end of book)

Toops, E. D., Indianapolis, Ind.
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
 Webb, James R. ("Excelsior" & "Eureka" Self-Closing & Self-Locking), 545 W 22d, New York
 Webster & Perks Tool Co. ("The Ideal"), Springfield, O.

Elevator Gates (Folding)

(See Gates, Folding)

*Elevator Gates & Guards (Folding)

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
PITT, WM. R. COMPOSITE IRON Works, 136 W 24th, New York. (See adv. index, end of book)

*Elevator Gates & Guards (Pitt, "Bostwick," Novelty & Composite Patents)

PITT, WM. R. COMPOSITE IRON Works, 136 W 24th, New York (See adv. index, end of book)

*Elevator Governors

KIECKHEFER, A. ELEVATOR CO., 1026-1104 St. Paul av, Milwaukee, Wis. (See adv. index, end of book)
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)

*Elevator Guides (Cold Compressed Steel)

STANDARD GAUGE STEEL CO., Beaver Falls, Pa. (See adv. index, end of book)

*Elevator Mouldings (Ornamental Steel)

BRAUN, J. G., 322 S Paulina, Chicago, Ill., & 554 W 36th, New York. (See adv. index, end of book)

Elevator Registers

Desper, H. A. Co. ("Reliance"), Worcester, Mass.

*Elevator Repairers

(See also firms marked thus † under the head of Elevators, Freight & Passenger)

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill.; 114 Liberty, New York, & 593 Market, San Francisco. (See adv. index & branch offices, end of book)

REPAIR PARTS

FOR

PASSENGER & FREIGHT ELEVATORS ELEVATOR SUPPLY & REPAIR CO.

114 LIBERTY ST. 76 W. MONROE ST.
 NEW YORK CHICAGO
 593 MARKET ST., SAN FRANCISCO, CAL.

SEDGWICK MACHINE WORKS (Also Dumb Waiter Repairs), Poughkeepsie, N. Y., & 128 Liberty, New York (See adv. index, end of book)

Elevator Rope

(See Wire Rope & Cables Manufacturers; also Manila & Sisal Rope Manufacturers)

Elevator Safety Devices

(See also the Specific Article Required)

Altizer & Prince, 51 Michigan, Chicago, Ill.
 Angell Elevator Lock Co. (Safety Lock & Controllers), 370 Atlantic av, Boston, Mass.
 Burdett-Rowntree Mfg. Co., 85 W Jackson boul, Chicago, Ill., & 117 W 26th st, New York

Columbus Elevator & Machine Co., Curtis & Jefferson av., Columbus, O.
 Elevator Operating Controller Co. (Car Cannot Be Moved While Gate Is Open), 2 Rector, New York
 Elevator Safety & Controller Co., Girard hldg, Phila., Pa.
 Keystone Elevator Inspection & Repair Co., 923 Locust, Phila., Pa.

MARINE ENGINE & MACHINE CO. ("Pratt"), 230 W 13th, New York; Works: Harrison, N. J. (See adv. index & branch offices, end of book)
 Pneumatic Elevator Safety Co. ("Hanford"), 156 5th av, New York
 Pratt, Chas. R. ("Pratt's"), 1123 B'way, New York

REEDY, H. J. CO. (Inc.) (All Approved Designs), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
 Security Elevator Safety Co. ("Cruickshank's" & "Security"), 126 W 18th, New York

Standard Elevator Interlock Co., Mariner & Merchant bldg, Phila., Pa.
 Stevens, Wm. (Est. of), 1221 Frankford, Phila., Pa.

Union Elevator & Machine Co. ("Union" Automatic for Opening & Closing Elevator Gates, Doors, etc.), 144 Ontario, Chicago, Ill.

Victor Mfg. Co., Newburyport, Mass.
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)

***Elevator Safety Devices (Electric)**

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Elevator Safety Gates

(See Elevator Gates, Automatic)

Elevator Safety Locks

Angell Elevator Lock Co., 370 Atlantic av, Boston, Mass.

Burdett-Rowntree Mfg. Co., 85 W Jackson boul, Chicago, Ill., & 147 W 26th, New York
 Clernand & Co. (Freight) 206 Centre, New York
 Elevator Operating Controller Co. ("L. L. L." Patents), 2 Rector, New York

Maryland Elevator Safety-Lock Co. (Inc.), Law bldg, Baltimore, Md.

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Rochester Automatic Elevator Door Co., 291 Mill, Rochester, N. Y.

Standard Elevator Interlock Co., 308 Chestnut, Phila., Pa.

Stowell Mfg. & Foundry Co., S Milwaukee, Wis.
WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie County Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)
 Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

Elevator Safety Stops

Hunter, James Machine Co., N Adams, Mass.
 Miller, L. J., 1233 Harrison, Cincinnati, O.
 Pneumatic Elevator Safety Co. ("Hanford"), 156 5th av, New York

Rochester Automatic Elevator Door Co., 291 Mill, Rochester, N. Y.

Security Elevator Safety Co. ("Security"), 126 W 18th, New York

U. S. Elevator Co. (Inc.), 216 Dock, Phila., Pa.

*Elevator Sash Iron

BRAUN, J. G., 322 S Paulina, Chicago, Ill., & 554 W 36th, New York. (See adv. index, end of book)

*Elevator Self Starters (Electric)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

*Elevator Siding

(See also Roofing & Siding Iron & Steel)

BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index, end of book)

EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O. (See adv. index, end of book)

Eller Mfg. Co., Canton, O.
 Kanneberg Roofing & Ceiling Co. (Corrugated), Canton, O.

MILWAUKEE CORRUGATING CO. Milwaukee, Wis. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Elevator Signals

Burdett-Rowntree Mfg. Co., 85 W Jackson boul, Chicago, Ill.

Elevator Signal Co., 140 Nassau, New York

ELEVATOR SUPPLY & REPAIR CO., 76 W Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
 Herzog Teleseme Co., 135 W 23d, New York
 Holtzer-Cabot Electric Co., Brookline, Mass.

Elevator Signals (Flash)

Elevator Signal Co., 140 Nassau, New York

Elevator Supplies

(See the Specific Article)

*Elevator Switches (Belt & Reversing)

CUTLER-HAMMER MFG. CO. ("C. & H."), Milwaukee, Wis. (See adv. index & branch offices, end of book)
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)

Elevators (Automatic Safety)

Columbus Elevator & Machine Co., Curtis & Jefferson aves., Columbus, O.
REEDY, H. J. CO. (Inc.), 15 W 2d, Cincinnati, O. (See adv. index, end of book)
 U. S. Elevator Co., 216 Dock, Phila., Pa.

Elevators (Barrel & Package)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. index & branch offices, end of book)

BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)

Caldwell, H. W. & Son Co., Chicago, Ill.
 Chain Belt Co. (Curved Arm), Milwaukee, Wis.
 Buhl Malleable Co., Adair & Wight, Detroit, Mich.
 Dodge Mfg. Co., Mishawaka, Ind.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Link Belt Co. (Automatic Pick Up, etc.), W 39th, c Stewart av., Chicago, Ill., & 299 B'way, New York

MATHEWS GRAVITY CARRIER CO. (Automatic), Merriam Park. (See adv. index, end of book)

Mey Chain Belting Engineering Works (Package), 77 Washington, Buffalo, N. Y.

Oram, Jno. S., Cleveland, O.

REEDY, H. J. CO. (Inc.), 15 W. 2d, Cincinnati, O. (See adv. index, end of book)

Standard Sand & Machine Co., Cleveland, O.

Strait, H. N. Mfg. Co. (For Barrel or Cooperage), Kansas City, Mo.

Teal, Chas. A., 1361 Ridge av., Phila., Pa.

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie County Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

*Elevators (Belt)

STORM MFG. CO., Newark, N. J. (See adv. index & branch offices, end of book)

*Elevators (Brick)

MATHEWS GRAVITY CARRIER CO., Merriam Park, St. Paul, Minn. (See adv. index, end of book)

Elevators (Bucket)

ALVEY-FERGUSON CO., Louisville, Ky. (See adv. index & branch offices, end of book)

Dodge Mfg. Co., Mishawaka, Ind.

Gifford Bros., Hudson, N. Y.

JEFFREY MFG. CO. ("Jeffrey" for all Classes of Work), Columbus, O. (See adv. index & branch offices, end of book)

Power & Mining Machinery Co., Cudahy, Wis.

Robins Conveying Belt Co., Passaic, N. J.

Stephens & Adamson Mfg. Co., Aurora, Ill.

Tamaqua Mfg. Co., Tamaqua, Pa.

Taylor Iron & Steel Co., High Bridge, N. J.

Elevators (Carriage)

Altizer & Prince, 51 Michigan, Chicago, Ill.

AMERICAN MACHINE CO., Louisville, Ky. (See adv. index, end of book)

Brodesser Elevator Mfg. Co., Milwaukee, Wis.

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)

Columbus Elevator & Machine Co., Curtis & Jefferson avs., Columbus, Ohio

Craig, W. H. & Co., Minneapolis, Minn.

Haughton Elevator & Machine Co., Toledo, O.

Hoffman, C. W. Co., 223 W 28th, New York

KAESTNER & CO. (Inc.), 241 S Jefferson, Chicago, Ill. (See adv. index, end of book)

KIECKHEFER, A. ELEVATOR CO., 1026 St. Paul av., Milwaukee, Wis. (See adv. index, end of book)

Lagerquist, Gust, 516 N 3d, Minneapolis, Minn.

Mason, Volney W. & Co., Providence, R. I.

Miller, Wm. A. Elevator Mfg. Co., 9th & Victor, St. Louis, Mo.

Murtaugh, Jas. Co. (Standard), 202 E 42d, New York

OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)

REEDY, H. J. CO. (Inc.), 15 W 2d, Cincinnati, O. (See adv. index, end of book)

Reedy, J. W. Elevator Mfg. Co., Chicago, Ill.

Safety Electric Elevator Co., 136 Liberty, New York

Salem Elevator Works, Salem, Mass.

SEDGWICK MACHINE WORKS (Also Automobile Elevators), Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index, end of book)

STORM MFG. CO., Newark, N. J., (See adv. index & branch offices, end of book)

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

WARNER ELEVATOR MFG. CO., Spring Grove av., Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie County Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Coal)

(See Conveyors, Coal & Ashes; also Elevators, Traveling, Coal)

Elevators (Combination, Hand & Belt Power)

AMERICAN MACHINE CO., Louisville, Ky. (See adv. index, end of book)

Columbus Elevator & Machine Co., Curtis & Jefferson avs., Columbus, O.

Edmonds Elevator Co., 146 Champlain, Cleveland, O.

Haughton Elevator & Machine Co., Toledo, O.

Hoffman, Chas. W. Co., 223 W. 28th, New York

OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)

REEDY, H. J. CO. (Inc.), 15 W 2d, Cincinnati, O. (See adv. index, end of book)

SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index & branch offices, end of book)

SPEIDEL, JOHN G., Reading, Pa. (See adv. index, end of book)

STORM MFG. CO., Newark, N. J. (See adv. index & branch offices, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Concrete Mixer)

Briggs Labor Saving Specialty Co. ("Lightning"), Waterloo, Iowa

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Elevators (Cotton)

(See Elevators, Cotton, under Textile Machinery)

Elevators (Electric)

(See also Elevators, Freight & Passenger)

Abadie, E. H. Co. (Hydraulic, etc.), Times bldg, St. Louis, Mo.

Altizer & Prince, 51 Michigan, Chicago, Ill.

AMERICAN MACHINE CO., Louisville, Ky. (See adv. index, end of book)

Bates, James Sons, Pratt c President, Baltimore, Md.

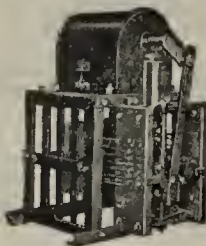
Brodesser Elevator Mfg. Co., Milwaukee, Wis.

California Electrical Works, 642 Folsom, San Francisco, Cal.

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)

Columbus Elevator & Machine Co., Columbus, Ohio

Curran, Jas. H. Elevator Co., 114 W 2d, Cincinnati, O.



Self-starters, speed controllers and limit switches for electric elevators. THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.

Grote Mfg. Co., Evansville, Ind.

Hammond, Jno. & Co., 18th & Indiana, San Francisco, Cal.

Haughton Elevator & Machine Co., Toledo, O.

Hay's, Samuel W., Sons, Pittsburg, Pa.

Hoffman, Chas. W. Co., 223 W. 28th, New York

Hollister-Whitney Co., Quincy, Ill.

Houser Elevator Co., 314 E Water, Syracuse, N. Y.

KAESTNER & CO. (Inc.) (Alternating Current, Passenger & Freight), 241 S Jefferson, Chicago, Ill. (See adv. index, end of book)

KIECKHEFER, A. ELEVATOR CO., 1026-1104 St. Paul av., Milwaukee, Wis. (See adv. index, end of book)

Kimball Bros. Co., Council Bluffs, Ia.

Lagerquist, Gust (Direct & Beltd), 516 N 3d, Minneapolis, Minn.

MARINE ENGINE & MACHINE CO. (Automatic), Main Office: 230 W 13th, New York; Works: Harrison, N. J. (See adv. index & branch offices, end of book)

Marshall Bros., S 21st & Mary, Pittsburg, Pa.

Miller, Wm. A. Elevator Mfg. Co., 9th c Victor, St. Louis, Mo.

Moore & Wyman Elevator & Machine Works, Granite c Richards, Boston, Mass.

National Elevator Co., 400 W 23d, New York

National Elevator & Machine Co., Honesdale, Pa.

NORTHERN ENGINEERING WORKS. (Freight), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)

REEDY, H. J. CO. (Inc.) (Alternating & Direct Current Machines), 15 W 2d, Cincinnati, O. (See adv. index, end of book)

Reedy, J. W. Elevator Mfg. Co., 91 Illinois, Chicago, Ill.

Roberts, James H., 430 W B'way, New York

Salem Elevator Works, Salem, Mass.

See, A. B., Electric Elevator Co., 220 B'way, New York

SPEIDEL, JOHN G., Reading, Pa. (See adv. index, end of book)

Springfield Elevator & Pump Co., Springfield, Mass.

STORM MFG. CO., 40-50 Vesey, New York, N. J. (See adv. index & branch offices, end of book)

Van Emon Elevator Co., San Francisco, Cal.

WARNER ELEVATOR MFG. CO., Spring Grove av., Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. Bank bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Electric Sidewalk)

Altizer & Prince, 51 Michigan, Chicago, Ill.

Columbus Elevator & Machine Co., Columbus, O.

Curran, Jas. H. Elevator Co., Cincinnati, O.

Haughton Elevator & Machine Co., Toledo, O.

Hoffman, Chas. W. Co., 223 W. 28th, New York

OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)

REEDY, H. J. CO. (Inc.), 15 W 2d, Cincinnati, O. (See adv. index, end of book)

Safety Electric Elevator Co., 136 Liberty, New York

STORM MFG. CO., Newark, N. J. (See adv. index & branch offices, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Elevators (Farm, Portable)

Camp Bros. & Co., Metamora, Ill.

Children's, E. Sons Mfg. Co., Council Bluffs, Iowa

Engel, J. A. & Co., Peoria, Ill.

Hlawatha Mfg. Co., Hlawatha, Kan.

Portable Elevator Mfg. Co., Bloomington, Ill.

Schroeder Bros., Minier, Ill.

Warner Elevator Mfg. Co., Warner, Ill.

Wenzelmann Mfg. Co. (Elevators & Wagon Dumps for Handling Grain), Galesburg, Ill.

*Elevators for Crushing Plants

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Elevators (Foundry)

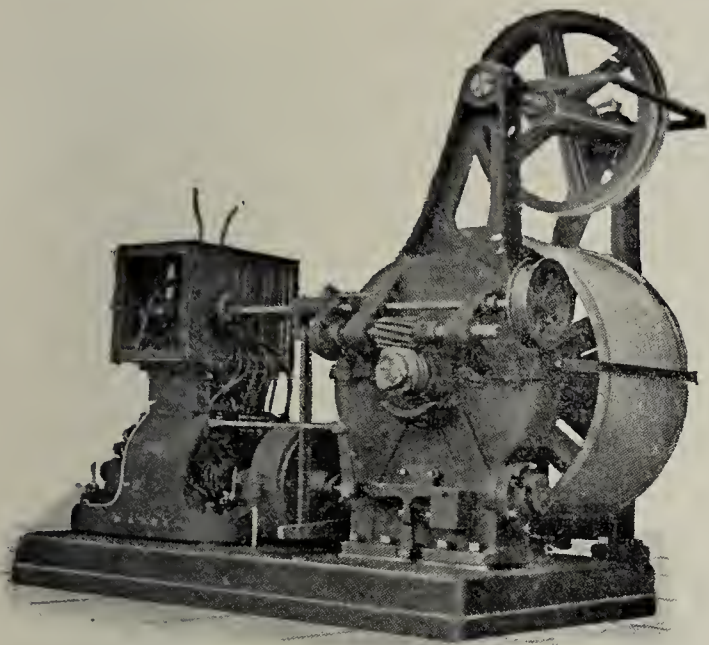
Altizer & Prince, 51 Michigan, Chicago, Ill.

Columbus Elevator & Machine Co., Curtis & Jefferson avs., Columbus, O.

Haughton Elevator & Machine Co., Toledo, O.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

NORTHERN ENGINEERING WORKS. 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)



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Which cannot be excelled for Economy,

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Can be Run by Gas Engines, Electric Motors or from Line Shaft

ALSO

HAND POWER ELEVATORS

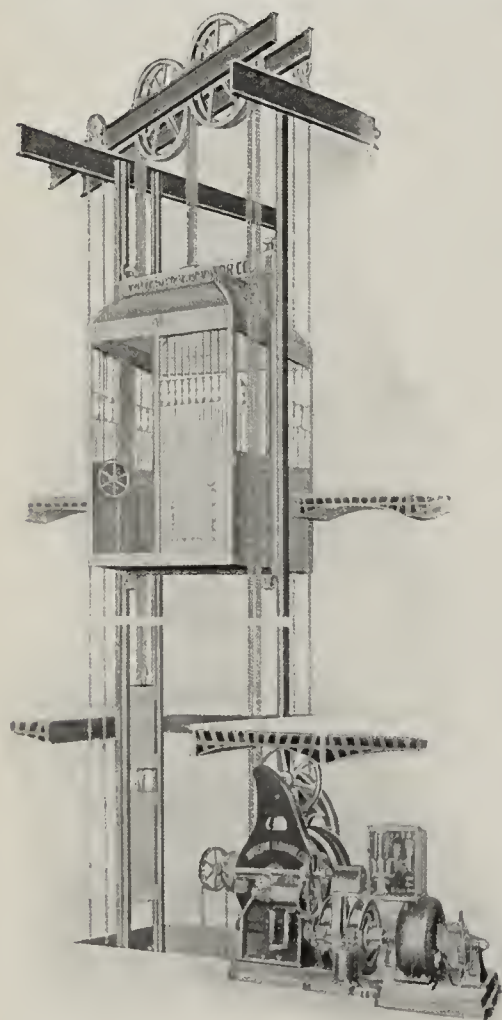
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OFFICES

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BUFFALO, N. Y.

NEW YORK, N. Y.

ROCHESTER, N. Y.

PHILADELPHIA, PA.

Quincy-Manchester-Sargent Co., Plainfield N. J.
REEDY, H. J. CO. (Inc.), 15 W 2d.
 Cincinnati, O. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)
WARSAW ELEVATOR CO., Warsaw,
 N. Y. & Erie Co. Bank bldg, Buffalo, N. Y.
 (See adv. index & branch offices, end of book)

Elevators (Freight & Passenger)

(NOTE—Firms Designated by Dagger (†) do General Repair Work Only. (Star (*) indicates Passenger Elevators)
 (Under this Heading see Sub-classifications)

ALABAMA.

BIRMINGHAM—*OTIS ELEVATOR CO.
 (See adv. index, end of book)
WARNER ELEVATOR MFG. CO.
 (Electric, Hydraulic & Hand & Belt Power, Passenger & Freight). (See adv. index, end of book)

CALIFORNIA.

LOS ANGELES—Baker Iron Works, 946 Buena Vista
Fulton Engine W'ks, N Main c Alhambra
 †Machinery & Electrical Co., 351 N Main
***OTIS ELEVATOR CO.** (See adv. index, end of book)
 Union Iron Works, 406 E 1st
SAN FRANCISCO—†California Car & Elevator Works, 7th & King
 †Enterprise Electric Works, 120 8th
 Holman, Wm. L. & Co., 18th & Indiana
 †Lippert & Kelsey (Freight Only)
***OTIS ELEVATOR CO., Stockton**
 & N Point. (See adv. index, end of book)
 Van Emon Elevator Co., 111 New Mtgy.

COLORADO.

DENVER—Nock & Garside, 1844 Wazee
***OTIS ELEVATOR CO., Opera**
 House bldg. (See adv. index, end of book)

CONNECTICUT.

HARTFORD—†Rice & Baldwin Electric Co.
NEW HAVEN—Eastern Machinery Co., 246
 MacKenzie, George M., Water c East

DELAWARE.

WILMINGTON—Green Elevator Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Forsberg, Gustav W., 526
 13 N W

GEORGIA.

SAVANNAH—†Davis-Forrest Machine Works,
 307 Bay, W

ILLINOIS.

CHICAGO—Altizer & Prince, 51 Michigan
 Brodessa Elevator Mfg. Co., 84 Van
 Coen, W. H., Lakeside bldg Buren
 Economy Engineering Co., 58 Jefferson
†ELEVATOR SUPPLY & REPAIR
 Co., (Signalling Apparatus, etc.), 76 W
 Monroe. (See adv. index, end of book)
 †Gallagher & Speck, 295 5th av
 †Gallagher & Speck, 184 Congress
***KAESTNER & CO. (Inc.) (Steam &**
 Hydraulic), 241 S Jefferson. (See adv.
 index, end of book)
***MARINE ENGINE & MACHINE CO.**
 (Electric, Hydraulic & Plunger), Mar-
 quette bldg. (See adv. index, end of book)
 †Mitchell, C. H. Elevator Co., 91 W Quincy
***OTIS ELEVATOR CO., 9 Jack-**
 son boul. (See adv. index, end of book)
 *Reedy, J. W. Elevator Mfg. Co. (Hy-
 draulic, Electric, Belt, Steam, etc.), 91
 Illinois, Chicago Ill.
 †Reliance Elevator Co., 326 Dearborn
 *Union Elevator & Machine Co., 28 Market
 †Wright Mfg. Co., 174 Lake
MOLINE—*Moline Elevator Co.
QUINCY—Hollister-Whitney Co.

INDIANA.

EVANSVILLE—*Grote Mfg. Co.
 Mesker, Geo. L. & Co. (Power)
INDIANAPOLIS—†Carman & Fryer, 334 E
 Market

***OTIS ELEVATOR CO., Indiana**
 Pythian bldg. (See adv. index, end of book)

†Reedy, D. V. & Co., 208 S Penn
PERU—Parkhurst Mfg. Co. (Freight, Hand,
 Belt & Electric Power)

IOWA.

COUNCIL BLUFFS—Kimball Bros. Co. (Elec-
 tric, Hand & Belt Power)
DES MOINES—†Globe Machinery & Supply Co.
 Iowa Machinery & Supply Co.
LE MARS—Pech, Gustave Foundry & Mfg. Co.

KENTUCKY.

LOUISVILLE — *AMERICAN MACHINE
 Co. (Electric, Hydraulic, Belt & Hand.)
 (See adv. index, end of book)

LOUISIANA.

NEW ORLEANS—†American Elevator & Elec-
 tric Co., 520 Camp
 †Commercial Electric Co., 710 Union
 †O'Brien, Peter, 327 Carondelet
***OTIS ELEVATOR CO., Godchaux bldg.**
 (See adv. index, end of book)

MAINE.

PORTLAND—*Portland Co. (Plunger)

MARYLAND.

BALTIMORE—Adt, Jno. B. (Steam), 332 N
 Holliday
 *Bates, James Sons (Hand, Hydraulic,
 Steam, Electric, etc.), Pratt c President
 *Faunt Le Roy Elevator Co. (Hydraulic,
 Electric & Belt), 8th & Pratt
†ELLCOTT MACHINE CO., Severn & Brush
***OTIS ELEVATOR CO., Equitable bldg.**
 (See adv. index, end of book)
 *See, A. B. Electric Elevator Co. (Electric),
 210 E German
WARSAW ELEVATOR CO., Main
 Office & Works, Warsaw, N. Y. (See adv.
 index, end of book)
 Zies, Chas. & Sons, 316 S Fremont

MASSACHUSETTS.

BOSTON—†Automatic Elevator Co., 19 Pearl
 Beckwith Elevator Co., 123 Pearl
 Brewer, Elias & Co., 52 Sudbury
 †Currie, J. H. & Co., 100 Utica
 Hoyt Elevator Co., 129 Pearl
 Kimball, C. E. & Son, 151 Pearl
 McLauthlin, Geo. T. Co., 120 Fulton
 *Moore & Wyman Elevator & Machine
 Works, Granite c Richards
 †Morrison, Angus, 18 Harvard pl
 †Payne, F. S., 295 Franklin
 †Porter, W. H., 15 Hartford
 *Portland Co. (Hydraulic), 141 Milk
 *See, A. B. El. Elev'r Co., 262 Washington
 Seelye Mfg. Co. (Freight), 118 South
 †Tubman, Wm., 20 Central
 Van Wert Mach. Co., 33 Wash. N
FLORENCE—Norwood Engineering Co.
LYNN—Embre, Wm. F. & Co., 435 Union
SALEM—*Salem Elevator Works (Electric)
SPRINGFIELD — OTIS ELEVATOR CO.
 (See adv. index, end of book)
 Springfield Iron Works, 108 Taylor
WORCESTER — OTIS ELEVATOR CO.
 (See adv. index, end of book)
 Standard Plunger Elevator Co.

MICHIGAN.

DETROIT—†Fox, Wm. Co., 893 Wabash av
NORTHERN ENGINEERING WK'S,
 Chene & Atwater. (See adv. index, end
 of book)
***OTIS ELEVATOR CO., Penobscot bldg.**
 (See adv. index, end of book)

MINNESOTA.

MINNEAPOLIS—Craig, W. H. & Co., 415 6th
 *Lagerquist, Gust, 516 N 3d av, S.
ST. PAUL—*Franklin Machine Works, 2208
 W University av
 *Lee & Hoff Mfg. Co., 81 E Fillmore av

MISSOURI.

KANSAS CITY—Kansas City Elevator Mfg
 Co., 115 W 19th
***OTIS ELEVATOR CO.** (See adv. in-
 dex, end of book)
 Stralt, H. N. Mfg. Co. (Freight)
ST. LOUIS—Abadie, E. H. & Co., Nat. B'k of
 Com. bldg
 Ellison, Wm. & Sons Mfg. Co., 1018 N 6th

Gerahty Bros., 416 S 6th
 *Miller, Wm. A. Elevator Mfg. Co., 9th &
 Victor
***OTIS ELEVATOR CO., Security bldg.**
 (See adv. index, end of book)

NEBRASKA.

OMAHA — *OTIS ELEVATOR CO. (See
 adv. index, end of book)

NEW JERSEY.

HARRISON—*MARINE ENGINE & MA-
 chine Co. (Electric, Hydraulic & Plunger),
 Sales Office, 126 Liberty, New York. (See
 adv. index, end of book)
NEWARK—*OTIS ELEVATOR CO. (See
 adv. index, end of book)
 Skinner & Leary, 13 Railroad pl
STORM MFG. CO. (Hand & Belt
 Power etc.) (See adv. index, end of book)
 Webber, Geo. A., Polnier c Penn av
 Wright, Lysander, Jr., 9 Ailing

NEW YORK.

BUFFALO—†Buffalo Engineering Co., Erie Co.
 Bank bldg
***OTIS ELEVATOR CO., Chicago &**
 Granger. (See adv. index, end of book)
 †Queen City Engineering Co., 49 Illinois
***WARSAW ELEVATOR CO., Erie**
 Co. Bank bldg. (See adv. index, end of
 book)
COHOES — COHOES IRON FOUNDRY
 & Machine Co. (Freight). (See adv. in-
 dex, end of book)

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BROOKLYN—Rodgers, R. M. & Co., 133 Hall.
 Boroughs of Manhattan & Bronx.
NEW YORK—†Aetna Elevator Co., 48 Warren
 †American Elevator Co., 113 Cedar
 Bethlehem Foundry & Machine Co. (Spur
 Gear & Screw Winding Freight Only),
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 Burwak Elevator Co., 216 Fulton
 †Clermand & Co., 206 Centre
 †Couch, Sam'l & Sons, 214 Centre
 Dowdall, Chas. E., 152 W B'way
ELEVATOR SUPPLY & REPAIR
 Co. (Signalling Apparatus Installed),
 136 Liberty. (See adv. index, end of
 book)
 †Graham Bros. & Co., 662 Hudson
 *Hoffman, Chas. W. Co. (Electric & Belt
 Power), 223 W. 28th
 †Kane, M. J. & Co., 136 Liberty
 Kenny Electrical Mfg. Co., 140 Nassau
***MARINE ENGINE & MACHINE**
 Co. (Electric, Hydraulic & Plunger), 230
 W 13th. Works, Harrison, N. J. (See
 adv. index, end of book)
 †Meagher, T. H., 103 Walker
 National Elevator Co., 24 Stone
***OTIS ELEVATOR CO., 17 Battery pl.**
 (See adv. index, end of book)
 †Pearson, McGlynn & Co., 10 Reade
 *Plunger Elevator Co., 17 Battery pl
 *Portland Co., 230 W 13th
 *Reedy Elevator Co., 202 9th av
 *Roberts, James H., 430 W B'way
 *See, A. B. Electric Elevator Co., 220 B'way
 †Shaper, F. D., 153 Franklin
 Sommerville, John 156 W 30th
 Standard Plunger Elevator Co. (Plunger),
 115 Broadway
***WARNER ELEVATOR MFG. CO.**
 (Electric, Hydraulic & Hand & Belt
 Power, Passenger & Freight), 1183
 B'way. (See adv. index, end of book)
 Welsh Machine Works, 276 & 277 West,
 New York

(End of New York City)

OSSINING—Kipp, A., Jr. (Hydraulic)
ROCHESTER — *OTIS ELEVATOR CO.
 198 Commercial. (See adv. index, end
 of book)
***WARSAW ELEVATOR CO., 262**
 State. (See adv. index, end of book)
SYRACUSE—Houser Elevator Co., 314 E
 Water
UTICA—*OTIS ELEVATOR CO. (See adv.
 index, end of book)
WARSAW—*WARSAW ELEVATOR
 Co. (See adv. index, end of book)
YONKERS—*OTIS ELEVATOR CO. (See
 adv. index, end of book)

NORTH CAROLINA.

CHARLOTTE—Park Mfg. Co. (Belt Power)

OHIO.

CINCINNATI—Cincinnati Elevator Works, Quigley, M. J. (Propr.), 216 W 2d
 *Curran, Jas. H. Elevator Co., 114 W 2d
 Hain, Frank M., Plum & Genesee
 Lane & Bodley Co., John & Water
 National Elevator Co., 124 Opera pl
 *REEDY, H. J. CO. (Electric, Hydraulic, Plunger, Steam, Hand, etc.). 15 W 2d. (See adv. index, end of book)
 Troup, E. K., 124 W Pearl
 *WARNER ELEVATOR MFG. CO. (Electric, Hydraulic & Hand & Belt Power, Passenger & Freight), Spring Grove av, Alfred & Valley. (See adv. index, end of book)
 CLEVELAND—Edmonds Elevator Co., 519 Champlain av, N W
 COLUMBUS—†Beck Electrical Repair Co., 7 S
 †Eaton Machine Co. Levee
 Ohio Elevator & Machine Co., Curtis & Jefferson avs
 *OTIS ELEVATOR CO. (See adv. index, end of book)
 †Rupnow, W. L., 98 W Broad
 DAYTON—Gem City Elevator Works, 612 W Wash'n
 SANDUSKY—Klotz Machine Co. (Hand & Steam)
 SIDNEY—Sidney Elevator Mfg. Co. (Steam)
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 *Universal Machine Co.

OKLAHOMA.

OKLAHOMA CITY—*OTIS ELEVATOR CO. (See adv. index, end of book)

OREGON.

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 Willamette Iron & Steel Works, 4th c Glisan

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 McIntire, Walter C. & Co., 506 Commerce
 O'Neill Elevator Co., 628 Cherry
 *OTIS ELEVATOR CO., 12th & Sansom. (See adv. index, end of book)
 Plunger Elevator Co., 32 South Broad
 Quaker City Elevator Works, 220 N Water
 *See, A. B. Electric Elevator Co., Land Title bldg
 Standard Elevator Co., 3107 Chestnut
 Standard Plunger Elevator Co., Pennsylvania bldg
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 *U. S. Elevator Co. (Inc.) (Passenger & Freight, Belt & Hand Power), 216 Dock
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 *Union Elevator Co., 33 Gist
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 *Providence Elevator Works, 58 Point
 Rhode Island Elev. & Machine Co., 35 Cliff
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CHATTANOOGA—WARNER ELEVATOR Mfg. Co., 816 Georgia (See adv. index, end of book)
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 MEMPHIS—Chickasaw Iron Works, 166 2d

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SALT LAKE CITY—Trent Engineering & Machinery Co.

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 NORFOLK—*OTIS ELEVATOR CO. (See adv. index, end of book)
 RICHMOND—*OTIS ELEVATOR CO. (See adv. index, end of book)
 Shelton, A. V. & Co.

WASHINGTON.

SEATTLE—†Biegert, J. C. Machine Works, 517 1st av, S
 Erickson-Wyman Co., 1001 1st av, S
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 SPOKANE—National Iron Works
 *OTIS ELEVATOR CO. (See adv. index, end of book)
 *Pacific Iron Works

WISCONSIN.

MILWAUKEE—*Brodeser Elevator Mfg. Co. (Electric, Hydraulic, Steam, etc.), 514
 †Heller, S., 290 5th av Commerce
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 †Rosenberg, F. Elevator & Supply Co., 149 Clinton

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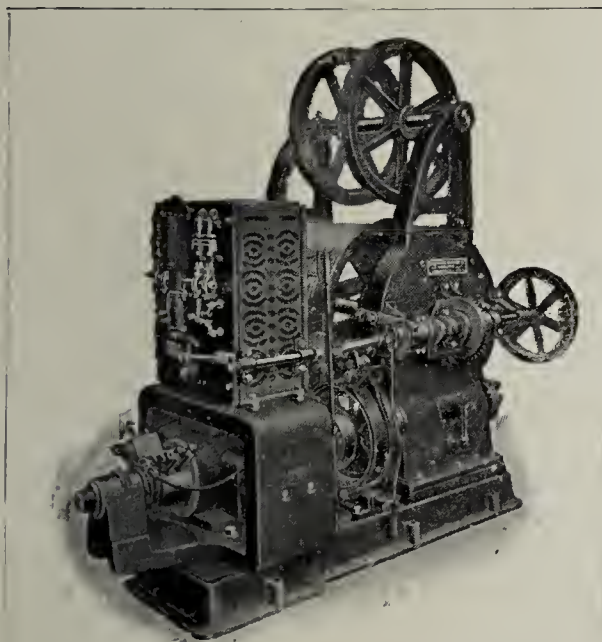
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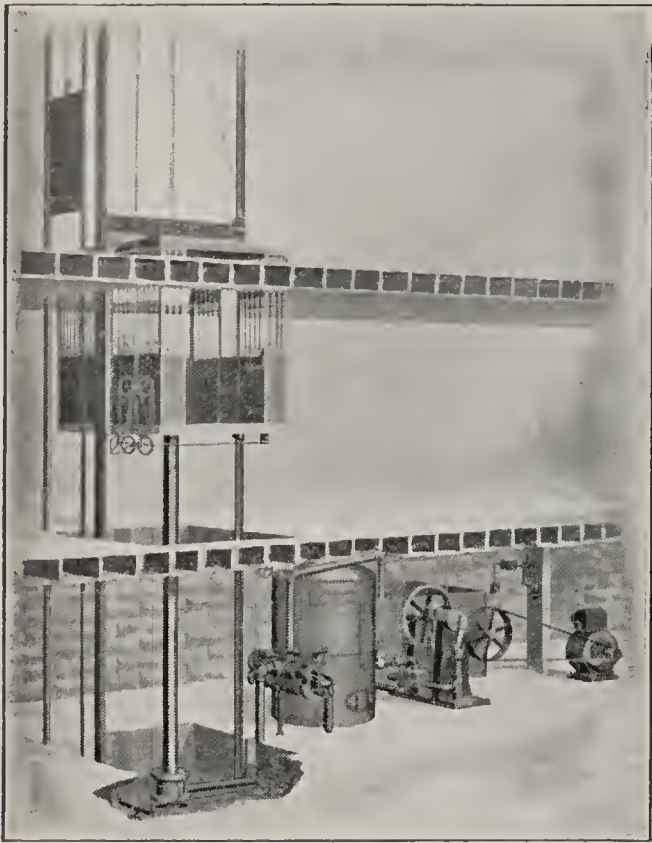
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COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)
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 Craig, W. H. & Co., 415 6th av. 8 Minneapolis, Minn.
 Eaton & Prince Co., 76 Michigan, Chicago, Ill.
 Haughton Elevator & Machine Co., Toledo, O.
 Hoffman, Chas. W. Co., 223 W 28th, New York
 Hollister-Whitney Co. (Furnish Iron Work Complete), Quincy, Ill.
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 Lagerquist, Gust, 516 N 3d, Minneapolis, Minn.
 Mesker, Geo. L. & Co., Evansville, Ind.
 Miller, Wm. A. Elevator Mfg. Co., 9th & Victor, St. Louis, Mo.
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 U. S. Elevator Co., 216 Dock, Phila., Pa.
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 Buckley, Jas. J. (For Building Material), 310 W 65th, New York
 Carlson Hoisting Co., 293 Douglass, Brooklyn, N. Y.
 Contractors Plant Mfg. Co., 127 Erie, Buffalo, N. Y.
 Edelmeyer & Morgan Hod Elevator Co. (For Building Materials), 333 W 49th, New York
FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)
 Ideal Fence Co., Adrian, Mich.
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 Pelham Operating Co. (For Building Materials), 410 W 26th, New York
 Simpson Hod Elevating Co., Newark, N. J.
 Smlth, Wm. A. Elevator Co., 516 E 141st, New York
 Stanley Hoisting Co., 620 W 25th, New York
 Stimson Elevator Co. (For Building Materials), 183 Walnut, Chicago, Ill.
 Thomas Elevator Co., 115 S Hayne av., Chicago, Ill.
 Thomas & Buckley Hod Elevator Co., 310 W 65th, New York
 White Hod Elevator Co., 5a Sylvan pl, New York
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(See also Elevators, Freight & Passenger)

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 Curran, Jas. H., Elevator Co., 114 W 2d, Cincinnati, O.
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 Hammond, J. & Co., 18th & Indiana, San Francisco, Cal.
 Haughton Elevator & Machine Co., Toledo, O.
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 Kaestner & Co. (Inc.), 241 S. Jefferson, Chicago, Ill.
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 Springfield Elevator Mfg. Co., Springfield, Mass.
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 Murtaugh, Jas. Co., 202 E 4d, New York
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 Dowdall, Chas. E., 152 W B'way, New York
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 York. (See adv. index, end of book)
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 Ky. (See adv. index & branch offices, end
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 Hoppes Mfg. Co., Springfield, O.
 Nicholson, W. H. & Co. ("Wyoming," Auto-
 matic), Wilkes-Barre, Pa.
 Robertson, Jas. L. & Son (Inc.) ("Hine's"),
 48 Warren, New York

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(See Grinders, Emery)

Emery Stones

(See Stones, Emery)

Emery Wheel Dressers

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BAY STATE STAMPING CO. ("Bennett"),
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 Browne & Dowd Mfg. Co. ("American"), Meri-
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 dence, R. I.
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 Columbus, O.
 Curtin-Herbert Mfg. Co., Gloversville, N. Y.
 Dayton Malleable Iron Co., Dayton, O.
 Desmond-Stephen Mfg. Co. ("Desmond" "Dia-
 mo-Carbo"), Urbana, O.
DESSAU'S, S. SONS (Diamond Set),
 180 B'way, New York. (See adv. index,
 end of book)
 Diamond Machine Co., Providence, R. I.
 Diamond Saw & Stamping Works ("Sterling"),
 357 7th, Buffalo, N. Y.
 Dickinson, Jno. (Est. of) (Diamond Pointed),
 64 Nassau, New York
 Dickinson, Thos. L., 45 Vesey, New York
 Heald Machine Co., Worcester, Mass.
HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)
 International Specialty Co. ("Economo" Com-
 bination & "Economo" Crucible), 362 Hol-
 den av, Detroit, Mich.

Lancaster Peerless Emery Wheel Co., Lancaster,
 Pa.
 Northampton Emery Wheel Co., Leeds, Mass.
 Norton Company, Worcester, Mass.
 Osgood, J. L. ("Black Diamond"), Erie Coun-
 ty Bank bldg, Buffalo, N. Y.
PATTERSON, GOTTFRIED & HUN-
 ter (Ltd.), 211 Center, New York
 Patterson Tool & Supply Co., Dayton, O.
 Reed Mfg. Co., Erie, Pa.
 Southington Cutlery Co., Southington, Conn.
 Standard Screw Co. (Genuine Huntington), 2
 N Canal, Chicago, Ill.
 Standard Tool Co. ("Standard"), Central av &
 P Ry, Cleveland, O.
 Stephan, C. H. Specialty Co., Dayton, O.
 Stocker, H. A., Machine Co. ("Rearwin"), 85
 Randolph, Chicago, Ill.
SUPERIOR CORUNDUM WHEEL CO.,
 Waltham, Mass. (See adv. index, end of
 book)
 Tanite Co., Stroudsburg, Pa.
 Vitrified Wheel Co., Westfield, Mass.
 Wrigley, Thos., Co., 300 Dearborn, Chicago,
 Ill.

Emery Wheel Stands & Arbors

(See Grinders, Emery)

Emery Wheels (Vulcanized Rubber)

Manhattan Rubber Mfg. Co., 18 Vesey, New
 York
 New York Belting & Packing Co., 91 Chambers,
 New York

Emery & Corundum Mfrs.

Abrasive Mining & Mfg. Co. (Miners & Mfrs.,
 Scimitar, Sultan Emery, Turkish Emery,
 Naxas Emery, Corundum), Plymouth, Ind.,
 & Chester, Mass.
 Abrasive Material Co., S 72d & Upland, Phila.,
 Pa.
 Hamilton Emery & Corundum Co., Chester,
 Mass.
 Hampden Corundum Wheel Co., Brightwood,
 Springfield, Mass.
HARRISON SUPPLY CO. (Dealers), 5
 & 7 Dorchester Av Extension, Boston, Mass.
 (See adv. index, end of book)
 International Emery & Corundum Co., 25 Broad,
 New York
 Keystone Emery Mills (Turkish), Frankfort,
 Phila., Pa.
 Levant Emery Co., Boston, Mass.
 Norton Company, Worcester, Mass.
 Pittsburgh Crushed Steel Co. (Ltd.), Pitts-
 burgh, Pa.
SCHULE, F. H. CO., 114-118 Liberty, New
 York. (See adv. index, end of book)
 Stiles, H. A. & Co. ("Ottoman," Brand Turkish
 & Naxas Emery & Greek Corundum), 176
 Federal, Boston, Mass.
SUPERIOR CORUNDUM WHEEL CO.,
 Waltham, Mass. (See adv. index, end of
 book)
 Vitrified Wheel Co., Westfield, Mass.
 Washington Mills Emery Mfg. Co. (Turkish
 Emery only), North Grafton, Mass.

Emery & Corundum Wheel Mfrs.

Abrasive Material Co., S 72d & Upland, Phila-
 delphia, Pa.
 Adams Co. (Emery, Cushing Bearing), Du-
 buque, Iowa
 American Emery Wheel W'ks, Providence, R. I.
 Bay State Emery Wheel Co., Worcester, Mass.
 Bridgeport Safety Emery Wheel Co., Bridge-
 port, Conn.
 Buffalo Emery Wheel Co. (M. Reich, Prop.),
 16 Lock, Buffalo, N. Y.
 Caborundum Co. (Carborundum Only), Niagara
 Falls, N. Y.
 Chicago Wheel & Mfg. Co. ("Chicago"), 330
 W Monroe, Chicago, Ill.
 Cortland Corundum Wheel Co., Cortland, N. Y.
 Detroit Emery Wheel Co., Detroit, Mich.

SUPERIOR CORUNDUM WHEEL CO. WALTHAM, MASS.

Corundum, Emery and Electrical Abrasive Wheels
 made in all sizes for all kinds of Grinding

Electric Emery Wheel Co., Newark, N. J.
 Gold, Walter C. ("The Keystone"), Phila., Pa.
 Handen Corundum Wheel Co., Brightwood, Springfield, Mass.
 Keystone Emery Mills, 4325 Paul, Phila., Pa.
 Lancaster Peerless Emery Wheel Co., Lancaster, Pa.
 Manistee Emery Wheel Co., Manistee, Mich.
 Monarch Emery & Corundum Wheel Co. ("Monarch"), Camden, N. J.
 Northampton Emery Wheel Co., Leeds, Mass.
 Norton Company (Alundum), Worcester, Mass.
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 211 Center, New York
 Peninsular Emery Wheel Co. (also Adamite Abrasive Wheels), Detroit, Mich.
 Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York
 Pittsburg Emery Wheel Co., Park bldg, Pittsburg, Pa.
 Safety Emery Wheel Co., Springfield, O.
 Southern Saw Works, Atlanta, Ga.
 Springfield Mfg. Co., Bridgeport, Conn.
 Star Corundum Wheel Co., Detroit, Mich.
 Sterling Emery Wheel Mfg. Co. (Adamite Wheel Also), Tiffin, O.
SUPERIOR CORUNDUM WHEEL CO., Waltham, Mass. (See adv. index, end of book)
 Tanite Co., Stroudsburg, Pa.
 Vitrified Wheel Co., Westfield, Mass.
 Waltham Emery Wheel Co. ("Richardson"), Waltham, Mass.

Enameled Hollow Ware

Avery Stamping Co., 5702 Lakeside av, N. E., Cleveland, Ohio.
 Baltimore Stamping Co., 115 E Hanover, Baltimore, Md.
 Blairsville Enameled Ware Co., Blairsville, Pa.
 Central Stamping Co., 174 Fulton, New York
 Canton Stamping & Enameling Co. (French Grey), Canton, O.
 Cleveland Stamping & Tool Co. ("Lava," "Volcanic"), Hamilton av, cor E 53d, N. E., Cleveland, O.
 Columbian Enameling & Stamping Co., Terre Haute, Ind.
 Dunlap, John Co. ("Monogram," "Vulcan," "Blue-Stone," "Janet"), Pittsburg, Pa.
 Enterprise Enamel Co., Bellaire, O.
 Geisel, A. Mfg. Co., 219 So 2d, St. Louis, Mo.
 Geuder, Paeschke & Frey Co. (Also Galvanized, Japanned & Tinned), Milwaukee, Wis.
 Griswold Mfg. Co. ("Erie"), Erie, Pa.
 Iron Clad Mfg. Co., 189 Cook, Brooklyn, N. Y.
 Jones Hollow Ware Co., Eusor c Ashland av, Baltimore, Md.
 Lalance & Grosjean Mfg. Co., 209 B'way, New York
 Lisk Mfg. Co. (Ltd.), Canandigua, N. Y.
 Manning, Bowman & Co., Meriden, Conn.
 Marietta Hollow Ware & Enameling Co., Marietta, Pa.
 Mound City Mfg. & Enameling Co., 1858 Menard, St. Louis, Mo.
 National Enameling & Stamping Co., White & B'way, New York
 New Castle Stamping Co., New Castle, Pa.
 New England Enameling Co. ("Ideal"), Middletown, Conn.
 Porcelain Enameling Ass'n of America, Sheboygan, Wis.
 Purity Enameled Ware Co., 29 Cliff, New York
 Reed Mfg. Co., Newark, N. J.
 Republic Metalware Co., 60 Tecumseh, Buffalo, N. Y., & 21 Cliff, New York
 Republic Stamping & Enameling Co. (French Mottled Ware), Canton, O.
 Star Enameling & Stamping Co. ("Sesco"), Pittsburg, Pa.
 Sternan, S. & Co. (Fancy Kettles, Coffee Machines, Coffee & Tea Pots, etc.), 195 Plymouth, Brooklyn, N. Y.
 Stewart Stamping Co., Moundsville, W. Va.
 Sweeney, W. H. Mfg. Co. (Copper, Brass & Nickel-Plated Ware), 66 Water, B'klyn, N. Y.
 U. S. Stamping Co., Moundsville, W. Va.
 Vollrath, J. J., Mfg. Co., Sheboygan, Wis.

*Enameled Rings

STAR EXPANSION BOLT CO. ("Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

Enamelers

(See also Glass Enamelers)

American Enamel Co. (Of Wood, Metal, etc.), Providence, R. I.
 Baltimore Enamel & Novelty Co. (Metal), Allen & Clement, Baltimore, Md.
 Dick, D. D. & Son, 519 Cherry, Phila., Pa.
 Estes, E. B. & Sons (Fancy & Plain Wood), 45 72 Warren, New York

Greenpoint Enamelling Works, 300 Greenpoint av, Brooklyn, N. Y.
 Michigan Enameling Works (Porcelain), Kalamazoo, Mich.
 Narragansett Machine Co. (Wood & Metal), Providence, R. I.
 Novelty Turning Co. (Wood), Norway, Me.

Enamels

Acme White Lead & Color Works, Detroit, Mich.
 Adams & Elting Co., 155 W Wash'n, Chicago, Ill.
 American Bitumastic Enamel Co. (Bitumastic), 311 Walnut, Phila., Pa.
 American Enamel Co., Providence, R. I.
 Arnstein, E., 35th & Shields av, Chicago, Ill.
 Aspinall, Edwin (Importer), 136 Water, New York
 Bigelow Varnish Co. (White), 81 Oliver, New York
 Billings-Chapin Co., 1163 E 40th, N. E., Cleveland, O.
 Billings, King & Co., 438 Pearl, New York, & 153 Congress, Boston, Mass.
 Booth, J. B. & Co., 225 1st av, Pittsburg, Pa.
 Bradley & Vrooman Co., 2633 Dearborn, Chicago, Ill.
 Bridgeport Wood Finishing Co., New Milford, Conn., & 55 Fulton, New York
 Buffalo Enamel & Stain Co. (Paint), D. S. Morgan bldg, Buffalo, N. Y.
 Burns, C. L., 156 5th av, New York
 Canton Paint & Varnish Co., Canton, O.
 Cawley, Clark & Co., 272 Passaic, Newark, N. J.
 Chicago Varnish Co. ("Enamelite"), 855 Elston av, Chicago, Ill.
 Chicago Wood Finishing Co., 261 Elston av, Chicago, Ill.
 Ernecke & Salmstein (Marble Paint for Walls & Ceilings), 631 N Halsted, Chicago, Ill.
 Forest City Paint & Varnish Co. (All Kinds), Cleveland, O.
 Felton, Sibley & Co., 136 N 4th, Phila., Pa.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Gerstendorfer Bros. ("Star"), 231 E 42d, New York
 Harrison Bros. & Co. (Inc.), 35th & Grays Ferry rd., Phila., Pa., & 117 Fulton, New York
 Lancaster Paint & Glass Co., Lancaster, Pa.
 Lucas, John & Co., 4th & Race, Phila., Pa.
 Marblecrete Products Co. (For Concrete Blocks, Brick & Stone Work), Akron, N. Y.
 National Enameling & Stamping Co., White & B'way, New York
 M'Lennan Paint Co. (Ltd.), 175-195 Rano, Buffalo, N. Y.
NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)
 Nice, Eugene E. ("Nice"), 272 S 2d, Philadelphia, Pa.
 Patterson-Sargent Co. (Paint), Cleveland, O.
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)
 Phoenix Paint & Varnish Co. (Marbleite), 124 Market, Philadelphia, Pa.
RINALD BROS. (Porcelain, etc.), 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Schlegel, Oscar, Mfg. Co., 111 E 12th, New York
 Smith, Edw. & Co., 141 B'way, New York
 Sovereign, C. E. Co. (Rockford Top Dressing), Rockford, Ill.
 Thompson, Thos. C. (Vitrifiable), Wilmette, Ill.
THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)
 Toch Bros., 320 5th av, New York
U. S. GUTTA PERCHA PAINT CO. ("Chinaline" for Interior Finish), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Walsworth-Howland Co., Carpenter & Fulton, Chicago, Ill.
 Wadsworth, Howland & Co., 84 Wash'n, Boston, Mass.
 Waterall, Wm. & Co., 200 N 4th, Phila., Pa.
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
 Wilhelm, A. Co., Reading, Pa.

Enamels (Air Drying)

Arnstein, Eugene, 35th & Shields av, Chicago, Ill.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

National Cement & Rubber Mfg. Co. (& Air Drying), Toledo, O.
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
 Standard Varnish Works, 29 B'way, New York
THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)

U. S. GUTTA PERCHA PAINT CO., 1230 Dudley, Providence, R. I. (See adv. index, end of book)

Enamels (Aluminum)

American Enamel Co., Providence, R. I.
 Arnstein, Eugene, 35th & Shields av, Chicago, Ill.
 Cullen, F. C. & Co. ("Peerless"), 704 W Lake, Chicago, Ill.
 Detroit Stove Polish Co., Detroit, Mich.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Gerstendorfer Bros. ("Sapolin"), 231 E 42d, Hommel, O. Co., Pittsburg, Pa.
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.

Enamels (Baking)

American Enamel Co., Providence, R. I.
 Arnstein, Eugene, 35th & Shields av, Chicago, Ill.
 Canton Paint & Varnish Co., Canton, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)
 National Cement & Rubber Mfg. Co. (Air Drying), Toledo, O.
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
 Smith Paint & Varnish Co., 329 Chestnut, Milwaukee, Wis.
 Standard Varnish Works, 29 B'way, New York
THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.

Enamels (Bath Tub)

Acme White Lead & Color Works, Detroit, Mich.
 Arnstein, Eugene, 35th & Shields av, Chicago, Ill.
 Behlen, Herman & Bro., 5 N William, New York
 Burdsal, A. Co., 102 S. Meridan, Indianapolis.
 Canton Paint & Varnish Co., Canton, O.
 Cullen, F. C. & Co. ("Peerless" Aluminum), 704 W Lake, Chicago, Ill.
 Devoe, F. W. & C. T. Reynolds Co., cor Fulton & William, New York
 Ernecke & Salmstein, 631 N Halsted, Chicago, Ill.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)
 Lucas, John & Co., 322 Race, Phila., Pa.
 McLennan Paint Co. (Ltd.), 175-195 Rano, Buffalo, N. Y.
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)
U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.

Enamels (Brewers')

Acme White Lead & Color Works, Detroit, Mich.
 American Bitumastic Enamel Co., 311 Walnut, Phila., Pa.
 Canton Paint & Varnish Co., Canton, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)

Hamrick Tank & Barrel Hard Shell Enamelling Co., 5831 Wissahickon av., Phila., Pa.
 Lucas, John & Co., 322 Race, Phila., Pa.
 Nubian Paint & Varnish Co., 51st & Bloomingtondale avs, Chicago, Ill.
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
U. S. GUTTA PERCHA PAINT CO., 1230 Dudley, Providence, R. I. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.

*Enamels for Tiling, Concrete & Plaster

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)

Enamels (Gold, Washable)

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)
 Gerstendorfer Bros., 231 E 42d, New York

Enamels (Iron)

American Bitumastic Enamel Co., 311 Walnut, Phila., Pa.
 American Enamel Co., Providence, R. I.
 Canton Paint & Varnish Co., Canton, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)
 Otley Mfg. Co. ("Eureka," Heat Proof for Locomotive Stacks & Boiler Fronts, etc.), 855 N. Winchester av., Chicago, Ill.
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)
U. S. GUTTA PERCHA PAINT CO. ("Rice's" Oxidized Machine Enamel), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.

*Enamels (Meter)

PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora" for Gas & Water Meters), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)

*Enamels (Porcelain)

RINALD BROS., 1142 N. Hancock, Philadelphia, Pa. (See adv. index, end of book)

Enamels (Radiator)

(See also Enamels)

Acme White Lead & Color Works, Detroit, Mich.
 American Enamel Co., Providence, R. I.
 Arnstein, Eugene, 35th & Shields av., Chicago, Ill.
 Cullen, F. C. & Co. ("Peerless" Aluminum), 704 W Lake, Chicago, Ill.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)
 Gerstendorfer Bros., 231 E 42d, New York
 Harrison Bros. & Co. (Inc.), 35th & Grays Ferry bldg, Phila., Pa.
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
 Wilhelm, A. Co., Reading, Pa.

Enamels (Storage Battery)

Sonneborn, L., Sons (Inc.), 262 Pearl, New York

Enamels (Stove Pipe)

American Enamel Co., Providence, R. I.
 Chicago Wood Finishing Co. ("Elston"), 261 Elston av, Chicago, Ill.
 Crosby & Co. ("6-5-4"), Detroit, Mich.
 Engel, Jno. & Co., 137 W B'way, New York
 Gerstendorfer Bros., 231 E 42d, New York
 Harrison Bros. & Co. (Inc.), 35th & Grays Ferry bldg, Phila., Pa.
 Rath Mfg. Co. ("Pipe Dream"), Hedley & Richman, Phila., Pa.
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
 Wilhelm, A. Co., Reading, Pa.

Ends (Bolt)

American Equipment Co., Norristown, Pa.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Central City Bolt Co., Syracuse, N. Y.
 Clark Bros. Bolt Co., Milldale, Conn.
 Columbus Bolt Works, Columbus, O.
 Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
 Graham Nut Co., W. Carson nr. Point Bridge, Pittsburg, Pa.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburg, Pa. Phila., Pa.
 Lake Erie Iron Co., Wade bldg, Cleveland, O.
 Lamson & Sessions Co., 2188 Scranton road, S. W., Cleveland, O.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Milton Mfg. Co., Milton, Mich.
 National Bolt & Nut Co., Pittsburg, Pa.
 National Supply Co., 7 W Lombard, Baltimore, Md.
 New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Penn Iron Co., Lancaster, Pa.
 Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
 Pittsburg Screw & Bolt Co., Pittsburg, Pa.
 Republic Iron & Steel Co., Frick Bldg. Annex, Pittsburg, Pa.
 Rhode Island Tool Co. (With Square Nut), Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Upson Nut Co., Unionville, Conn., & Cleveland, O.

Energine

Energine Refining Co. (A Fuel for Automobiles, Gasoline Engines, Naphtha Launches, etc.), Cleveland, Ohio

Engine Governors (Steam)

(See Governors, Steam Engine)

Engine Indicators (Steam)

(See Indicators, Steam Engine)

Engine Shields & Guards

Strandwitz & Scott, Delaware av & Cooper, Camden, N. J.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Engine Starters (Automobile)

Auto Improvement Co. ("Ever Ready"), 304 Hudson, New York
 Ball, F. H. & F. O., Boundbrook, N. J.
 Lanterman, W., Kokomo, Ind.
 Lock Switch Mfg. Co., 20 Broad, New York
 Precision Appliance Co. ("Hill" Automatic, for Gasoline Automobiles), 840 Austin av, Chicago, Ill.

Engine Stops (Speed Limit)

Consolidated Engine Stop Co. ("Monarch," "Corliss," "Columbia"), 114 E 28th, New York
 Ford, Thos. P. Co., 407 Broome, New York
 Locke Regulator Co. (Automatic), Salem, Mass.
 Moline Tool Co. ("Barclay"), Moline, Ill.
STRONG, CARLISLE & HAMMOND Co., 336 Frankfort av, N W, Cleveland, Ohio. (See adv. index, end of book)
 Wright, J. K., 136 Liberty, New York

Engine & Boiler Combined

American Iron Works, Des Moines, Ia.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Atlas Engine Works, 19th & Martindale av, Indianapolis, Ind.
 Byers, John F. Machine Co., Ravenna, O.
 Campbell, Wm. & Co., 6th & B'way, Cambridge, Mass.
 Comstock Mfg. Co., Comstock, Mich.
DONEGAN & SWIFT (Gasoline, Self Contained), 6 Murray, New York. (See adv. index, end of book)
 Enterprise Mfg. Co., Columbiana, O.
 Erie Pump & Engine Co. (Side & Center Crank), Erie, Pa.
 Farquhar, A. B. Co., York, Pa.
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Frick Co., Waynesboro, Pa.
 Geiser Mfg. Co., Waynesboro, Pa.
LAMBERT HOISTING ENGINE CO., Main Office & Works: 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Murray Iron Works Co. (Vertical), Burlington, Ia.
 Orr & Sembower, Reading, Pa.
 Roots, P. H. & F. M., Co., Connersville, Ind.
 Salem Iron Works, Salem, N. C.

Engine & Boiler Supplies

(See Engineers' Supplies)

Engineering Schools & Colleges

ALABAMA.

AUBURN—Alabama Polytechnic Institute
 TUSKEGEE—Tuskegee Normal & Industrial School
 UNIVERSITY—University of Alabama

ARKANSAS.

FAYETTEVILLE—Arkansas Industrial University
 University of Arkansas

CALIFORNIA.

BERKELEY—University of California.
 PALO ALTO—Leland Stanford, Jr., University
 SAN FRANCISCO—School of Practical Mining, Civil, Mechanical, Electrical Engineering, 933 Market
 Sogswell Polytechnic College, 26th & Folsom
 Van der Naillen's School of Engineering, 113 Fulton

COLORADO.

BOULDER—Colorado State University
 FORT COLLINS—Colorado State Agricultural College
 GOLDEN—State School of Mines

CONNECTICUT.

NEW HAVEN—Yale University (Sheffield Scientific)

DELAWARE.

NEWARK—Delaware College

DISTRICT OF COLUMBIA.

WASHINGTON—Corcoran Scientific School of Columbian University
 Bliss School of Electricity

FLORIDA.

LAKE CITY—University of Florida

GEORGIA.

ATHENS—University of Georgia
 ATLANTA—Georgia School of Technology

ILLINOIS.

CHAMPAIGN—University of Illinois
 CHICAGO—Armour Institute of Technology
 Lewis Institute
 EVANSTON—Northwestern University
 PEORIA—Bradley Polytechnic Institute

INDIANA.

INDIANAPOLIS—Winona Technical Institute
 LAFAYETTE—Purdue University
 NOTRE DAME—University of Notre Dame
 RICHMOND—Earlham College
 TERRA HAUTE—Rose Polytechnic Institute
 VALPARAISO—Valparaiso College

IOWA.

AMES—Iowa State College
 IOWA CITY—University of Iowa
 MOUNT VERNON—Cornell College

KANSAS.

LAWRENCE—University of Kansas
MANHATTAN—Kansas Agricultural College
WICHITA—Friends University

KENTUCKY.

LEXINGTON—Kentucky University
State College of Kentucky

LOUISIANA.

NEW ORLEANS—Tulane University of Louisiana

MAINE.

ORONO—University of Maine
WATERVILLE—Colby University

MARYLAND.

ANNAPOLIS—St. John's College
COLLEGE PARK—Maryland Agricultural College

MASSACHUSETTS.

AMHERST—Mass. Agricultural College
BOSTON—Mass. Institute of Technology
CAMBRIDGE—Harvard University (Lawrence)
COLLEGE HILL—Tufts College (Scientific)
WORCESTER—Worcester Polytechnic Institute

MICHIGAN.

AGRICULTURAL COLLEGE—Michigan State Agricultural College
ANN ARBOR—University of Michigan
COMSTOCK—Comstock Mfg. Co.
BOUGHTON—Michigan College of Mines

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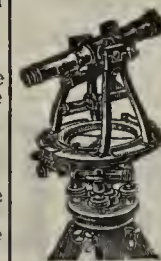
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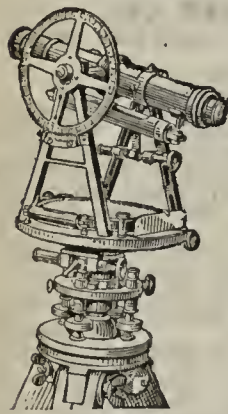
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 Severance, E. D., Cham. of Commerce bldg
 Shultz, C. J. (C. E.), 1540 W 22d
 Solano, Alfred, Stimson bldg
 Stevenson, H. J., Westland bldg
 Stocker, H. J., Copp bldg
 Storrow, Sam'l (Mining), Union Trust bldg
 Thompson & Gilliam (Mining), Union Trust
 bldg

Tracy Engineering Co. (M. E.), Union Trust
 bldg
 Trask, F. E. (Mining Eng.), Citizens' Nat.
 Tuttle, G. W., Mason bldg Bank bldg
 Tweedy, G. A. (Mining), Wilcox bldg
 Viole, Felix, Merchants' Trust bldg
 Wade & Wade (Mining), 318 E 1st
 Wheeler, E. T., 608 S Main
 Wheeler, Hy. K. Co. (Mining), Union Trust
 bldg

Wiley, W. H. (Mining), 367 S Bonnie Brae
 Wiseman, Philip (Mining), 408 S Spring
 Wright, Edw. T. (Hydraulic, C. E. & Sur-
 veyor), Pacific Elec. bldg

Youngworth, Leo, V. (City Surveyor), Tajo
 bldg

LOS GATOS—Rockwith, W. E.

MARTINEZ—McMabon, T. A.

MARYSVILLE—Zuba Const. Co. (& M. E.)

MERCED—Martin, C. D.

Ostrander, W. H.

Stoneroad, W. P.

MONTEREY—Little, W. C.

NAPA—Buckman, O. H.

NATIONAL CITY—Copeland, F.

Howard, O. E.

NEVADA CITY—Englebright, W. F.

Tomkins, O. A. (M. E.), Union

OAKLAND—Abadle, Emile R. (Consulting,
 Mining), Union Sav. Bank bldg

Badger, T. N., Bacon bldg

Fogg, G. E. 1463 B'way

Garthwaite, E. H. (Mining), 391 Fair-
 Gray, J. W., 923 Linden mount av

Hoffman, John D. (Mining), 438 Edwards

Hoffmann, Ross B. (Mining), 566 31st

Holmes, Geo. L. (Consulting), 950 5th av

Huntley, D. B. (Mining), 31 Bella Vista av

Janin, Stebbins & Smith (Consulting, Min-
 ing), Union Sav. Bank bldg

Noyes, Wm. F. (Mining), 1256 B'way

Turner, F. C. (City), 524 14th

United Iron Works (M. E.)

ORANGE—Batgate, Wm.

PALO ALTO—Eckert, W. R., Jr. (M. E.)

Hamilton, E. G.

McClelland, J. F. (Mining)

PASADENA—Allin, T. D., 101 E Walnut

Clapp, W. B., 205 S Fair Oaks

Del Mar, Algernon (Mining), 351 Mary

Ramel, H., City Hall

Rhodes, H. W., 822 E California

Sedgwick, J. W., 194 E Euclid

Wright, E. N. (C. E.)

PASO ROBLES—Elliott, Van R.

Spurrier, G. F.

PETALUMA—Frost, W. S. (City)

PLACERVILLE—Crawford, J. J.

Kimball, G. W.

Price, D. H.

Sexton, J. E. (Mining)

POINT LOMA—Sederholm, E. J. (M. E.)

Tyberg, O. (C. E.)

POMONA—Sanders, W. H. (City)

RED BLUFF—Healy, Lucien B.

Lunnig, Wm. F. (County Surveyor)

REDDING—Batzell, Alfred

Brackins, Sam R.

Greaves, J. M.

Zoellin, E. A.

REDLANDS—Chamblin, W. N.

Ford, Isaac

REDWOOD CITY—Cloud, Joseph**SACRAMENTO—Boyd, Jos. C. (City), Court House**

Browning, C. Jr. (C. E.), 2107 22d

Goldwaite, E. W., 312 O

Graves, T. W., 312 O

Jenkins & Wells, 33d c Magnolia av

Marshall, U. S., 312 O

Naylor, E. W. (Consulting & M. E.), 209 J

Pierson, J. C. (city), 326 J

SALINAS—Davies, D. F.

Garver, J. H.

SAN BERNARDINO—Finkle, F. C. D.

Koebig, A. H.

Pope J. B.

SAN DIEGO—Capps, E. M.

Jenks, Arthur W. (Mining, Metallurgist)

SAN FRANCISCO—Abner Doble Co. (Consulting), 200 Fremont

Adams, W. J. (Mining), 71 Parnassus av

Alberger, W. C. (Consulting C. E.), 1203

Devisadero

American-Hawaiian Engineering & Construction Co. (M. E.), Rialto bldg

American-Pacific Construction Co. (Civil Contracting), 7th & Townsend

Baker, Frank J. (Also Hydraulic, etc.), 604 Mission

Bandman & Adams (Mining), Monadnock blk

Barker & Little (Consulting), Marston bldg

Benson, J. A., 636 Market

Blood, H. H. (mining), 1103 O'Farrell

Boss, Martin P. (mining), 2310 Devisadero

Bradley, F. W. (mining), Crocker Bldg.

Breite, W. W. (Civil, Structural Consulting), 925 Golden Gate av

Bosqui, Francis, Mill bldg

Burch, Albert (Mining), Crocker bldg

California Hydraulic Engineering & Supply Co. (also hydraulic, etc.), 305 Market

Chadwick & Sykes (C. E.), 500 Golden Gate

Cheyney, Samuel W. (mining), 237 1st av

Christie, Robt., (M. E.), 193 Fremont

Compressed Air Machinery Co. (M. E.), Jessie & Ecker

Consumers' Electric Ass'n (M. E.), 917 Webster

Cooper, Wm. A., 146 Belvedere

Cory, Clarence L. (Consulting), Union Trust bldg

Couchot, Maurice C. & Thurston (Consulting, Mining & M. E.), 604 Mission

Crawford, John J. (mining), 1424 Gough

Crosscup, I. Oscar (M. E.), 1343 McAllister

Daniels & Dillman (C. E. & M. E.), Monadnock blk

Davol, George K. (M. E.), 515 Market

*Dickie, George W. & James (C. E., marine), 34 Stewart

Donegan & Brady (C. E., Surveyor), Flood bldg

Dow, George E. Pumping Engine Co. (hydraulic, etc.), 179 1st

Duryea, Edwin, Jr. (Consulting), 1368 Geary

*Eckart, W. R. (consulting), 3014 Clay

Evans, C. H. & Co. (M. E.), 109 Fremont

Falrchild, George H. (M. E.), 1221 Page

Felermuth & Price (C. E.), Crocker bldg

Fulton Iron Works (M. E.), 511 Market

Globe Engineering Co. (mining), 1937 Market

Gould & Curry Co. (mining & M. E.), 339

Grannls, Mason Engineering Co. (M. E.), 729 Polk

Gray, J. A. Co. (M. E.), 18th & Bryant

Grimwood, Charles P. & Co. (C. & M. E.), Monadnock Bldg.

Hall, Leon M. (consulting), Kohl Bldg.

Hammond, J. & Co. (M. E.), 7th & King

Hancock G. M. (M. E.), 604 Mission

Harrelson, Grau Co. (M. E.), Union Trust bldg

Haslehurst, W. W. (M. E.), 2122 Folsom

Heald's Business College (Mining), 425 McAllister

Heller, M. J. & Wilson (Consulting), 15 2d

Henry, G. J., Jr. (M. E.), 19th & Harrison

Henshaw, Bulkley & Co. (C. E. & M.), 219

Hilpisch Carl, 4104 16th

Hindes, Stetson G. (M. E.), Monadnock Bldg.

Holman, Wm. L. & Co. (M. E.), 18th & Indiana

Holmes, George L. (Consulting), 1st & Folsom

Holmes, Howard C. (consulting), Ferry Bldg.

Hopps, J. H. (consulting & M. E.), 517 Market

Hough, E. & E. (Consulting & Marine Surveyor), Merchants Exch bldg

*Hunt, Dillman, Meredith & Allen (Inc.) (Hydraulic, M. E., etc.), Union Trust

Hunt, Mirk & Co. (M. E.), 153 2d

Jackson, Byron Machine Works (Hydraulic, etc.), 61 Fremont

Janin & Smith (Consulting & Mining), Kohl bldg

Leland, W. E. (Consulting, Mechanical, Power Heating & Ventilating), Merchants Exchange bldg

Leonard, John B. Monadnock Bldg.

Libby, M. M. (C. E.), 1647 Page

Livermore, N. B. & Co. (also hydraulic, etc.), 604 Mission

Long & Hoyt Co., Inc. (C. & M. E.) Monadnock bldg

Ludlow, Jas. T. (M. E.), 604 Mission

McMecr & Miller (Consulting), 789 Market

Mack, John H. (Mining), Crocker bldg

Miller, W. P., 1027 Page

Milliken Bros., 509 Eddy

Moore, Chas. C. & Co. (Mining), 63 1st

*Moore & Scott, 638 2d

Morrin, Thomas (Consulting, Mechanical, Power Heating & Ventilating), 15 2d

Morser, E. J. Co. (C. E. & Surveyors), Monadnock blk

Noble, Patrick (Consulting), 17 & Mission

North Machine Co. (M. E.), 324 Main

Noyes, Wm. S. (Mining), Mills bldg

Orton, C. K. Machine Co. (M. E.), 315 Fremont

O'Shaughnessy, M. M. (Consulting, Mining, Hydraulic, etc.), 604 Mission

Ough, Jos. M. (Consulting), 110 Sutter

Paul, A. B. (Mining), 410 Kearney

Pelton Water Wheel Co. (Hydraulic, etc.), 19th & Harrison

Pidge, W. C. (C. E.), 505 G. G. av

Price, Thos. & Son (Mining), 2503 B'way

Radford W. H. (Mining), 2360 Broadway

Ralston, Wm. C. (Mining), 511 Market

Ransom, T. W. (Consulting), Merchants Exch bldg

Risdon Iron Works (M. E.), Steurt & Folsom

Root, G. J. (Mining), 1260 O'Farrell

Schorr, Robert (M. E.), 61 Fremont

Small, H. J. (M. E.), Flood bldg

Smith, Frank E. & Co. (Consulting), 418

Stable, J. F. H. (Surveyor), 2918 Clay

Stebbins, Elwyn W. (Mining), Mills bldg

Stevens W. A. (Mining), Merchants Exch bldg

Stewart, Wm. H. (Consulting), 216 California

*Stut, J. C. H. (Consulting M. E.), 417 Montgomery

Sutton, J. G. & Co. (M. E.), 229 Minna

Symmes, Whitman (Consulting), Monadnock bldg

Tucker, E. W. & Co. (M. E.), 215 Spear

Turner, H. W. (Mining), 502 California

Union Iron Works Co. (Mining), Flood bldg

Union Machine Co. (M. E.), 934 Brannan

Von Geidern, Otto, 1978 B'way

Wellington, Geo. J. (C. E.), Kohl bldg

Western Engineering & Construction Co. (M. E.), Monadnock blk

Wieland, C. F. (Consulting M. E.), 704 Market

Willberg, Ernest N. (Surveyor), 2715 Pine

Williams Bros. (M. E.), Monadnock bldg

Wilson, C. C. (M. E.), 22 1st

Wiltsee, Ernest A. (Mining), Monadnock blk

Wolfram, F. D. (M. E.), 1849 Jackson

Woodruff Co., The (C. E. & M. E.), Pine & Leidesdorff

Wright, Wm. Q. (Mining), 604 Mission

Yard, H. H. (Mining), 1380 Sutter

SAN JOSE—Barker, C. M. (City), City Hall

Cornish, Harry L. (Mining), P. O. Box 634

Fisher, H. B., 17 S 1st

Herrman Bros., Martin's blk

McMillan & Piper (County), Court House

Salnevain, Paul C., 250 Marliere

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Harrington, J. R.

Poett, A.

SANTA CLARA—Moore, C. E.**SANTA CRUZ—Wanzer, Horace****SANTA MONICA—James, Thos. A.****SANTA PAULA—Orcutt, W. W. (also Hydraulic, etc.), Hardware bldg****SANTA ROSA—Davis, P. R.****SILVERTON—Hunt, Eliery W. (C. E., Mining)****STANFORD UNIVERSITY—Durand, Wm. F.****Marx, G. R. (M. E.)****STOCKTON—Atherton, Geo. A., Court House****Compton, H. T., 232 Main****SUSANVILLE—Ward, T.****TULARE—Barber, Emmet****UKIAH—Rice & Baltzell**

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Isham, M. E. Laurel

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Smith, C. D.

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Paxton, Joseph (M. E.)

Wilcox, H. A.

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Chase & Hall (Mining)

Teal, Geo. W. (Mining & Consulting)

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McDonald, W. H.

Rickseker, L. E.

Smyth, N. V. V.

Tuttle, E. C. (C. E.)

Whipple, S. C.

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Peregrine, J. D.

Rank, S. A. (Mining & Surveyor)

Rickard, Forbes

Schneider, Geo. W.

Todd, L. C. (Mining)

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Devereux, H. K. (Mining), Mining Ex. Bldg

Dickerman, A. L., Dickerman bldg

Doble, Robt. M. (Consulting)

Hewitt, G. C. (Mining)

Hills, Fred., 21 E Bijou

Mollie Gibson Con. M. & M. Co. (M. E.), P O Box 668

*Palmer, C. E., Hagerman bldg

Reid, H. I. (Hydraulic, etc.)

Riebling, H. F. A. (Metallurgist)

Ritter, Etienne A. (Mining)

Sawyer & Garstin (Mining & C. E.), 113 E

Smit, E., 33 Hagerman Pike's Peak

Warner, A. B. (Div. Eng., C. R. I. & P.)

Woodside, W. P., 41 Hagerman bldg

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Arnold, R. R. (Mining), 351 E Bennett

Arthur, Edward P., Jr. (Mining), Old Mining

Brewster, J. K., Jr., 304 M Exch. bldg

Colwell, Alfred B., 27 Mining Exch. bldg

Countryman & Jaquith (Mining), 445 E Bennett

Crosley, F. W. (C. E., Hydraulic), Mining

Fink, F. W., 27 Roseberry Exch. bldg

Finn, Oliver B., 371 Ben

Haff, Edward L., Mining Exch. bldg

Harris, Wm & Crosley (Mining), Mining Exch. bldg

Hills & Willis, Mining Exch. bldg

Jones & Arnold, Neall bldg

Kennedy & Arnold, 111 N 3d

Luckraft, 445 Bennett

Miller, E. E., 105 E Carr

Moore, Chas. J., 60 Welty

Osborne, Arthur H., 105 Carr

Smith, James T., Old Mining Exch. bldg

Strickland & Von Phul

Toll, R. H. (Mining)

DENVER—Adams, Wilbur E. (Mining), 409

Ernest & Cramer bldg

Anderson, G. G. (Consulting & C. E.), Equitable bldg

*Baker, Frank D. (Consulting), 506 Boston bldg

Baker, G. R. (C. E.), Equitable bldg

Bancroft, Geo. J. (Mining), Exchange bldg

Boehmer Max & (Mining), Jacobson bldg

Bonnevile, Nils Co. (Consulting & M. E.), 527 17th

Brace, W. C. (Mining), Equitable bldg

Brandes, J. F. (Mining), Majestic bldg

Brunton, D. W. (Mining), Boston bldg.

Bulkley, Frank (Mining), Equitable bldg

Carpenter, F. R. & Sons (Mining), Equitable bldg

Cazin, Franz (Consulting M. E.), Jackson bldg

Chase, Charles A. (Mining), Equitable bldg

Chase, Edwin E. (Mining), Equitable bldg

Chauvenet, Regis (Mining), Equitable bldg

Collins, G. E. (Mining), Boston bldg

Colvin, C. K. (Mining), 1751 Humboldt

Comstock, C. W. (Mining), Boston bldg

Cory, R. J. (Mining M. E.), Equitable bldg

Curtis, Loren B. (C. E., Hydraulic), Commonwealth bldg

*Davis, Wm. C. (Mgr., F. M. Davis, Jr., Iron Works Co.), 8th & Lorimer

Deems, Chas. W. (Mining), 205 E. 20th

Denver Engineering Work Co. (Mining, Consulting & M. E.), Blake c 30th

Doble, Robert McF. (Consulting), Majestic bldg

Door, John V. N. (Mining), Bank bldg

Doveton & Purington (Mining), 217 McPhee bldg

Draper, M. D. (Mining), 1541 Lafayette
Duncan, Lindsay (Mining, C. E.), 1935
Duvall, Z. T., 3048 Franklin B'way
*Eitfeldt, Chas. M. (Engr. in Charge), Equitable bldg

Farish, Geo. E. (Mining), 835 Logau av
Farish, J. B. (Mining), Cooper bldg
Farish, Wm. A. (Mining), 2112 E. 17th
Finch, J. W. (Mining), Jacobson bldg
Foreman, D. H., 1540 Ogden
Foster, Ernest Le Neve (Mining), Masonic Temple

Frenzel, A. B. (Consulting), Equitable bldg
Fuehler, C. M. (Mining), 1750 Calif
Gibson, Geo. W. (Mining), McPhee bldg
Godshall, L. D. (Mining), 1671 Fillmore
Graves, Abner (Mining), Bank bldg
Hardinge, H. W. (Mining), Cranmer bldg
Hewitt, Carstarphen Co. (Consulting), 221 McPhee bldg

Hewitt, E. A. (Mining), 1132 15th
Holman, J. W. (Mining), 231 Cooper bldg
Hills & Willis (Mining), McPhee bldg
Lakes, Arthur (Mining), Barth bldg
Lamont, Eugene M. (Consulting Mining), 568 Clarkson

Lowe, Henry P. (Mining), Equitable bldg
Lund, P. H. (Mining), Temple Court
McCann, D. J. (C. E.), Majestic bldg
McClurg, J. A. (Mining), Majestic Bldg.
McCune, A. J. (C. E.), Commonwealth Bldg.
McFadden, Geo. B. (Mining), 1543 Champa
McNeil, John (Mining), Equitable Bldg.
Marks, J. H. (C. E.), 535 Barclay Bldg.
Mathez Auguste (Mining), Cooper Bldg.
May, John G. (Mining), Cooper bldg
Miller, David G. (Mining), Equitable Bldg.
Milliken, W. B. (Mining), McPhee bldg
Milner, T. J. (C. E.), Majestic Bldg.
Minard, F. H. (Mining), Equitable Bldg.
Moore, Charles J. (Mining), Klitredge Bldg.
Morley, F. H. (Mining), McPhee Bldg.
Noble, L. S. (Mining), Equitable Bldg.
Ober, G. F. (Mining), 306 Exchange Bldg.
O'Brien, Peter (Consulting), Nassau bldg
Odenheimer, John M., Railroad Bldg.
Olsen-Kinnear Electric Co. (Elec. & M. E.), 1635 Champa

Page, Wm. Byrd (Mining), Equitable Bldg.
Parker, R. A. (Mining), Boston Bldg.
Patterson, G. Hutton (Mining), 232 S. 14th
Patrick, C. G. (C. E.), Commonwealth Bldg.
Peck, Ira F. (Mining), Klitredge Bldg.
Peck, Wm. A. (Mining & C. E.), 1643 Champa
Plate, H. R. (Mining), Majestic Bldg.
Richard, Forbes (Mining), Equitable Bldg.
Rocky Mountain Exploitation Co. (Mining), 1726 Broadway

Rogers, E. L., 1643 Champa
Rolland, G. J. (M. E.), Jacobson Bldg.
Ruie, W. M. (Mining), 1165 Evans
Sault, S. C. (C. E.), 1529 S. Emerson
Schwartz, Theo. E. (consulting & mining), Colorado Bldg.

Searing, L. (Consulting, Mining & M. E.), 30th c Blake
Scobey, Jesse (Mining), 3224 Colfax av. "B"

Sebben, Edw. W. (Mining), Commonwealth bldg
Setbman, George H. (M. E.), Klitredge bldg

Snedaker, James A. (Mining), Equitable Bldg.
Snell, E. S. (consulting & C. E.), Barclay Bldg.

*Stearns-Roger Mfg. Co. (Consulting M. E.), 1724 California

Thorne, W. E. (hydraulic & mining), McPhee Bldg.

Tyler, Sydney W. (Mining), Exchange Bldg.
Ulrich, J. C. (Consulting), Hydraulic, etc.), 210 W 2d av

Van Cortlandt, E. N. (Mining), Cooper Bldg.
Vandemoer, John (Mining), 1230 Ogden
Vickery & Foster (C. E. & surveyors), 220 Mack Bldg.

Warwick, A. W. (Mining), 208 McPhee Bldg.
Welles, A. M. (Civil & Mining), Equitable Bldg.

Western Engineering Co., Jackson Bldg.
Wilkes, Gilbert & Co. (consulting M. E.), 435 17th

*Wilkinson, Thos. L. (Mining), Boston Bldg.
Wilson, Nat., 979 Broadway
Wolf, Harry J. (Mining), 1574 Steele
Wrigley, R. F. (Mining), Mack bldg
Yont, C. A. (M. E.), 1412 Delgany
Young, R. E. (C. E.), Mercantile Bldg.

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Harper & Harper
Jones, Finney
Tiffany, J. E. (Mining)

FLORENCE—McFall, A. B.

FORT COLLINS—Lawrence, J. W. (M. E. & C. E.)
McAnelly, E. C.
Rist, Wm.

GEORGETOWN—Marsh, George E.

Morris, Chas. H.

GLENWOOD SPRINGS—Rosenberg, Theo.
Trumhor, W. H.

GRAND JUNCTION—Haskell, Chas. W.

GREELEY—Baker & Walter

Stimson, L. L.

Walters, R. T.

GUNNISON—Alkine, O. H.

Doffmeyer, J. A.

IDAHO SPRINGS—Stephens & Barbour

Underhill, James

Ventress, A. J.

Wiley, W. H.

LA JUNTA—Lewis, F. T.

LAS ANIMAS—Beach, C. W.

Beach, Frank

LEADVILLE—Boehmer, Max, 501 Harrison av

Holland, Geo., Union blk

Jaycox, T. W., 8 Chicago blk

McNair, F. J., Quincy blk

Platt, Howard, 431 Harr

Smith, W. L. G., Chicago blk

Thielen, Alfred, 19 Boston

LONGMONT—Calkins, C. C.

MONTROSE—Sawyer, E. B.

Winters, J. C.

OURAY—Biddlecom, F. L.

Russell, H. H.

Whinnerah, Richard

PUEBLO—Hathaway, E. W., 109 New Pope

Helander, A. H. (Mining), 303 Jackson

Knight, C. C., 401 Central

McKenna, J. B. (Mining), 2 Pitkin pl.

SALIDA—Spray, S. J.

SILVERTON—Dyson, James

Holls, R. W.

Holt, M. B.

Hunt, E. W.

Tripp, T. M.

TELLURIDE—Gibbs & Greenwood

Gilkerson, H. G.

Holland, L. F. S. (Mining)

Lay, H. C.

Litchfield, A. B.

Townsend, Arthur R. (Mining)

TRINIDAD—Knickerbocker, C. H.

VICTOR—Bodfish & Atherton, 11 Doyle blk

Davis & Byler, Bank

Sharp, Chas.

Worcester, S. A. (Consulting M. E.)

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Schumaker, J. S. (M. E.), 81 High

Wheeler, Joel M. (M. E.), 82 N Cliff

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Greenwood, A. H.

Sage, Geo. H.

Stearns, Elmer W.

BLOOMFIELD—Duncan, Edgar T.

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BRIDGEPORT—Bullard, D. B. & E. P. (M. E.), 525 Broad

Leach, W. H., Jr. (M. E.), 355 Noble av

McKenna, Maurice F. (City), 202 State

Palmer, Wm. B., 1022 Main

Riker, A. L. (M. E.), 1416 Fairfield av.

Scofield & Ford, 946 Main

Smith, F. W., Jr. (M. E. & Patent Expert), 136 Fairfield av.

Starr, Wm. H. (& surveyor), 211 State

*Webster Wm. R., Jr. (Dept. Supt. Bridge-port Brass Co.), Crescent av., Junc. Wil-lard

BRISTOL—McLean, George H.

McLean, Geo. H.

CLINTON—Weaver, Halsey A.

COLCHESTER—Williams, Danl T.

DANBURY—Bacon, John W.

Brown, Charles O.

*Burchard, Anson W., 368 Main

Pearce, C. E.

DANIELSON—Nichols, C. H.

Pike, William K.

DERBY—*Brewster, Frank H. (Supt. & Eng'r, Birmingham Iron Foundry)

Brinsmade, Daniel S. (C. E. Hydraulic)

Eckhart, M. E.

Huson, W. S., 12 Cottage

Johnson, George A., 90 Main

Smith, G. E.

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*Jarvis, Chas. M. (Vice Pres. American Bridge Co.)

EAST HARTFORD—Olmsted, C. Henry

FARMINGTON—Potter, Danl. C.

Wadsworth, A. R.

GREENWICH—Gregory, J. Louis

Minor, Sheldon E.

Peck, Leon F.

Runge, Edw. J.

HARTFORD—*Allen, Francis B. (Second Vice

*Pres., Hartford Steam Boiler Ins. & Insp. Co.)

Allen, Julian S., 853 Prospect av

Ayres, Henry W. (Hydraulic), 66 State

Belden, Clifford H. (C. E.), 217 Laurel

*Billings, Chas. E. (M. E.), 142 Russ

Bond, Geo. M. (& M. E.), 141 Wash'n

Buck, Henry R., 36 Pearl

Bunce, Chas. H., 902 Main

Burt, Luther W., 39 Pearl

Bush, Edw. W., 650 Main

Clark, Herbert G., 800 Main

Clark, Roscoe N. (C. E. Dept. of Sewers)

Claussen, Ed. E. (M. E.), 904 Main

Colc, Clinton L. (Consulting C. E.), 650 Main

Cook, Asa S. Co. (M. E.), Colt's Armory

Corson, Wm. R. (Consulting), 36 Pearl

Desjardins, B. M. (Consulting M. E. & Patents), 926 Main

Ehbets, C. J. (M. E. Patent Expert), 14 Ver-non

Evarts Machine Co. (M. E.), 14 Hicks

Ford, Fredk. L. (City), 800 Main

Graves, Edwin D. (Consulting), 650 Main

Hanson, B. M. W. (M. E.), 1 Flow

Henderson, John T., 650 Main

*Honiss, W. H. (M. E. & Patent Expert), 315 Pearl

Johnson, F. G. Co. (Inc.) (M. E.), 172 Pearl

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New England Engineering Co., 7 Haynes

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Spencer & Washburn, 80 Pearl

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Veeder, Curtis H. (M. E.), 20 Sargent

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Lane, John S.

Pierston, S. C. (& Surveyor)

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Bishop, Geo. (all Hydraulic, etc.), 129 Main

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Wilcox, Ralph M. (City & Surveyor)

MILFORD—Clark, Vincent B.

NAUGATUCK—Ham, Geo. O. (& Surveyor)

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*Burgess, Chas. M., 358 W. Main

Cadwell, Wm. H. (C. E., Surveyor & Ar-chitect), 213 Main

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Hart, H. S. (M. E.), R. & E. Mfg. Co.,

Oldershaw, F. H. (City), 48 Park pl

Penfield, Geo. W. (Sewer Commissioner), 213

Slater, Frank (Consulting), Main

Stanley, A. W. (M. E.), Stanley Quarter

Unkelbach, M. J.

NEW HARTFORD—Smith, Robert R.

NEW HAVEN—Amrbyn, G. X.

Barney, Samuel E. (Prof. C. E., Yale University)

*Bigelow, Geo. W., 98 Howe

Blair, Clarence M., 14 Gilbert av

Blatchley, Wm. J., 219 Blatchley av

Buddington, J. E. (Consulting), 840 Chapel

Burwell, Merritt W. (M. E.), 117 Woos-

Cahn, Alex., 82 Church

*Du Bois, A. J. (Prof. C. E., Yale Univer-sity)

Elm City Engineering Co. (M. E.), 61 Orange

Everitt, Edw. H., S. N. E. Tel. Co.

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Huntton, Louis D. (Consulting), Yale Univer-sity

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Jackson, J. Fred'k (C. & Construction E.) (City Hall)

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 Kelly, C. W. (City), City Hall
 Kelsey, D. J. (M. E.), 152 Temple
 Lockwood, L. H. (M. E.) (Instr. Sheffield, Scientific School, Yale University)
 Mason, W. (M. E.), Winch'ter Rep. Arms Co.
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 Nichols, Chas. H. (Consulting M. E.), 865
 Osborn, G. Edw. (M. E.) Chapel
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 *Rowland, Amory, E. 413 Chapel
 Ryder, Ely M. T. (Constructing Eng'r C. R'y Co.)
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 Spencer, W. T. (Division Engineer), R. Office bldg
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 Tracy, J. C. Prof. (Inst. C. E., Yale Univ.)
 Verrill, G. E., 42 Church
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 Richards, W. H. (City), City Hall
 Whiton, L. E. (M. E.), 190 Howard
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NORWALK—Hoyt, Samuel W., Jr. (City)
 Morehouse, Ferris S., 106 Wash'n, S. N.
 Rider, Jos. B., 38 Fairfield av, S. N.
 Wood, C. N., 91 East av N
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 Pltcher, Geo. E., 49 Shetucket
 Plummer, Frank J. (M. E.), Am. Wood Working Machinery Co.
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 Emery, Albert H., Jr. (M. E.), Clark's Nash, Paul Hill av
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 Pierce, W. B. (& Surveyor), Stamford Savings Bank bldg
 Wardwell, F. S. (M. E.), 178 Atlantic
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 Fitch, W. E., 373 Watertown rd
 *Johnson, Edw. W. (Waterbury Brass Co.)
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 Hall, A. Clark
 Johnson, Wm. E.
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 Gagel, Edw.
 Heitman, Adrian C., Jr.
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 Fenton, Robt. (City)
 Mitchell, Robert E.
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 Richardson-Wey Engineering Co., Equitable bldg
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Robert, Benj. F., 168 Crew
 Robert, L. W. (Consulting), Empire bldg
 Rogers, Ransom (& Surveyor), Empire bldg
 Ruff, S. Z., Century bldg
 Russell, L. O. (M. E.), Empire bldg
 Solomon-Norcross Co. (Consulting), Candler bldg
 Walker, A. F. (C. E.), Austell bldg
 Wilkins, Grant (Consulting), 23 Whitehall
 Wilson, Edward, 266 Gordon
 Wilson, W. T. B. (Asst. City), City Hall
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 Barksdale, R. T., 112 Macarat
 Davenport, Albert H. (City), 330 Greene
 Davidson, A. H., 330 Greene
 Gairdner, Gordon, High n Walton Way
 Goodrich, L. F., 115 8th
 Reaves, D. V., 118 1st
 Wingfield, Nisbet (consulting), City Hall
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 Wilcox, J. W. (City)
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 Cunningham, Wayne (consulting), Sorrel
 Howard, J. W., Police Station
 Kops, J. de Bruyn, Board of Trade bldg
 Thomas, E. J., Court House
 Winn, W. J., Police Station

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BOISE—Eagleston, C. G.
 Randal, T. W., 917 Grove
 Sperling & Davenport (Civil)
 Stevenson, C. C., 6 Sonno blk
 Tolman, Fred. A. (City)
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KELLOGG—Easton, S. A. (mining)
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WALLACE—Anderson, G. Scott

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ALTON—Dickson, Geo., McPike bldg
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 Rutledge, E. E., City Hall
 Swift, H. C., 2 W 2d
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 Hallett, H. D.
 *McClatchey, A. F. (M. E.)
 Tarble, M. J.
 Westmark, H. O. (M. E.), 164 S. River
 *Wickhorst, Max Henry (Eng'r of Tests, C. B. & Q. R. R.)
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 Deutschman, F. H. (City)
 Graner, Louis
 Harpen, H. H. (Civil)
 Hilgard, G., Court House
 Reiss, W. A., First Nat'l B'k bldg
BENTON—Langer, Phillip
BLOOMINGTON—Bell, Arthur H. Court House
 Folsom, Elmer, City Hall
 Gray, Rich'd B., 806 S Bun
 Keiser, Henry (M. E.)
 Mellish, Jas. G., Unity bldg
BLUE ISLAND—Link, J.
CAIRO—Thrupp, Wm., 608 Wash'n av (City Engineer)
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CARMI—Spencer, M. W.
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 Adams & Schwab (M. E.), 161 State
 Allen, Henry A. (Consulting C. E. & M. E.), First Nat'l Bank bldg
 Allyn, J. G. (Mining), 81 Clark
 Alvord & Burdick (Consulting), 140 Dearborn
 Amory, Eugene E., 52 Dearborn
 Amstutz, Noah S., 130 Sherman
 Andressen-Evans Co., Monadnock bldg
 Arnold Co. (C. E., M. E. & Constructing for Complete Electric Power Plants), 181 La Salle

Arnold, B. J. (Consulting M. E.), Borland blk
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 Baker, S. Harlon (City), 164 Dearborn
 Bull, Chas. B. (Chief Sanitary Engineer), City Hall
 Banzenmacher, H. P. (M. E.), 18 W Randolph
 Bates & Rogers Construction Co. (Consulting), 355 Dearborn
 Bjork, August E., 138 Washington
 Bjork, David T., 138 Washington
 Blair, Thos. S., Jr. (M. E.), 6 Sherman
 Blonck William A. (Consulting), 279 Dearborn
 Borg & Ericson (M. E.), 164 Dearborn
 Boutelle, Edwin C. (M. E.), 140 Dearborn
 Breckinridge, W. L. (Chief Engineer, C. B. & Q. R'y), 209 Adams
 Bremer, Herman H. (Surveyor), 100 Washington
 *Brill, Geo. M. (Consulting), Marquette bldg
 Browning Engineering Co., 277 Dearborn
 Browning, Geo. (M. E.), 84 La Salle
 Buckbee, J. C. Co. (M. E.), 125 Monroe
 Burdick & York (M. E.), 109 Randolph
 Burt, Horace G. (M. E.), 145 Van Buren
 Buskirk, Theo., 125 Monroe
 Byllesby, H. M. & Co. (Consulting), 125 Monroe
 Caldwell, George G. (M. E.), 204 Dearborn
 Carden, Wm. H. (Consulting), 164 Dearborn
 Carlson, G. H. (Surveyor), 115 Dearborn
 Carman & Hartman (M. E.), Railway Ex.
 Carter, Byron B. (Consulting M. E.), 1644 Monadnock blk
 *Carter, Henry W. (Patent Lawyer), 635 Engineering, Lewis Inst., 204 Dearborn
 Chaimovitch, I. (M. E.), 66 N Jefferson
 Chamberlain, Oscar P., 184 La Salle
 *Carter, Henry W. (Patent Lawyer), 1261 Monadnock blk
 *Chamberlain, Paul M. (Prof. Mech'l Engineering, Lewis Inst.)
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 Clark, Ira A., 84 La Salle
 Clarke, Thomas, The Rookery
 Clausen, G. L. (Surveyor), 112 Clark
 Cohn, Alexander, 425 Belden av
 Clute & Spence (M. T.), 59 Clark
 Cole, Edward S., 59 Clark
 Cole, John A., 59 Clark
 Cole, O. F. (M. E.), 9 Jackson boul
 Collins, Emmons (Consulting M. E.), 167 Dearborn
 Collins & Stevens (M. E.), 84 La Salle
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 Coolidge, Winthrop (Mining), 138 Jackson boul
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 Drake, Frank (Mining), 131 La Salle
 Dunlap, D. C., 269 Dearborn
 Emerson, Harry L., 138 Washington
 Evans, Chas. H. (C. E. M. E.), 145 Van Buren
 Evans, Frank H. (M. E.), 145 Van Buren
 Ewing, Wm. B., 138 Washington
 Fergus, Wm. L. & Co. (Consulting M. E.), 279 Dearborn
 Feurtado, R. S. (C. E.), 279 Dearborn
 Fitch, Claude E. (M. E.), 164 Dearborn
 Flinn & Dreffeln (M. E.), 315 Dearborn
 Flora, Ellsworth E. (M. E.), 204 Dearborn
 Forsyth, Robert (Consulting M. E.), The Rookery
 *Forsyth, Wm., 160 Harrison Rookery
 Foster, Chas. F. (Consulting M. E.), Manhattan bldg
 Fostern Engineering Co. (M. E.), 40 Dearborn
 Frandsen, Nils P., 109 Randolph

Franklin, William A. (Mining), 1143 N Albany av
 Friedling, Fred., 815 La Salle
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 Gausslen, Herman (M. E.), 279 Dearborn
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 Gibson, Chas. B. (Mining), 81 Clark
 Goltz, Wm. (M. E.), 319 S Clinton
 Goosman, J. C. (M. E.), Teutonic bldg
 Gordon, Edw. B. (M. E.), 42 W Jackson boul
 Greeley-Howard Co. (Surveyors), 112 Clark
 Green Engineering Co. (M. E.), 115 Adams
 Gulickson, Geo. (M. E.), 70 Milwaukee av
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 Hall, Chas. F. (M. E.), 45 N Desplaines
 Handford, Arthur W. (M. E.), 153 La Salle
 *Hanna, Elmer E., 820 Elston av
 Harding, Abner C. (M. E.), 155 Washington
 Harrison, Wm. H., 163 Randolph
 Harvey, Chas. A. (M. E.), 324 Washington
 Heck, F. F., 78 Le Salle
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 Herr, Helro B. (Consulting), Monadnock blk
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 Hill, Cicero D. (Chief Engineer), 200 Randolph
 Hodgart, Alex. (M. E.), 277 Dearborn
 Heermans, Thaddeus W. (M. E.), 138 Washington
 Holcomb, Clifford A. (M. E.), 240 La Salle
 Hollis, Henry L. (Mining & Metallurgist), 164 Dearborn
 Hoover & Mason (M. E.), 9 Jackson boul
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 Howitt, Frederick, 1732 Diversey boul
 Huber, Gustav M. (M. E.), 315 Dearborn
 Hudson, C. E., 155 La Salle
 *Hughes, Wm. M., 280 La Salle
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 Hunt, R. W. & Co. (Consulting & Testing), The Rookery
 Huyette, Wm. S. (M. E.), 125 Monroe
 Illinois Engineering Co. (Consulting M. E.), 315 Dearborn
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 Jackson, Geo. W. (Inc.) (Consulting & Contracting), 179 W Jackson boul
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 Maldaner & Riddle, 164 Dearborn bldg)

Mariner & Hoskins (Mining), 81 Clark
 Masters, Geo. A., 109 Randolph
 Maurer, Carl J. (M. E.), 279 Dearborn
 Mayer Engineering & Contracting Co. (M. E.), The Rookery
 Mead, Daniel W. (Consulting M. E., Water Works, Power Plants, etc.), First National Bank bldg
 Mendlus, Carl (Surveyor), 108 La Salle
 Mershon, Russell J. (Surveyor), 1317 W
 Michaelis, Wilhelm, 109 Randolph
 105th
 Miller, Martin J. (Mining), 138 Jackson boul
 Modjeski, Ralph (Consulting), Monadnock
 Mohler, Chas. K., 42 Madison
 Mohr, Louis (Consulting M. E.) (Jno. Mohr & Son), 32 Illinois
 *Morava, Wensel, 204 Dearborn
 Mordock, Chas. T., 164 Dearborn
 More, Wm. F. (M. E.), 26 Aberdeen
 Morey, Newgard & Co., 26 Van Buren
 Morgan, Arthur M. (Consulting M. E.), 169 Jackson boul
 Morgan Engineering Co. (M. E.), 755 Railway Exchange
 Morgan, Geo. C. (M. E., Hydraulic, etc.), 169 Jackson boul
 *Morse, Chas. H., Jr., 167 Franklin
 Moss, Earl C. (Consulting & Contracting), Merchants Loan & Trust bldg
 *Murphy, John Z. (Chief Engineer, C. U. T. Co.), 444 N Clark
 National Supply Co. (Consulting & M. E.), 315 Dearborn
 Nichol, John, 153 La Salle
 Nicholson, H. H. (Mining), 181 La Salle
 Noth, Sharp, Sailor Co. (M. E.), Monadnock blk
 Norlin, Fred'k (Surveyor), 112 Clark
 Nyberg, Eugene (Consulting M. E.), 232 S Clinton
 Ohio Ceramic Engineering Co. (M. E.), 164 Dearborn
 O'Neill, John G. (Consulting M. E.), 304 The Rookery
 Orton — Stunbrenner (M. E.), 181 La Salle
 Orwig, Henry I., 79 Dearborn
 Osgood, Samuel V. (Mining), 164 Dearborn
 Ostenfeldt, Chas. L., 79 Dearborn
 Owen, Ira J. (M. E.), 204 Dearborn
 Page & Schnable, 188 Madison
 Pearce, Wm. H. (M. E.), 269 Dearborn
 Peck, Staunton B. (M. E.) (Chief Eng'r. Link Belt Mach. Co.), 39th & Stewart av
 Pegelow, Fred. G., 237 5th av
 Pennywell, Marshall F. (M. E.), 204 Dearborn
 *Pierce, Richardson & Neiler (Consulting), 315 Dearborn
 Pitkin, Julian H. (M. E.), 16 Fullerton av
 Platner, Warton, 100 Washington
 *Pond, Frank H., 279 Dearborn
 Postel & Linn (M. E.), 279 Dearborn
 Powell, Ambrose V., 138 Washington
 Pratt, Ed. G. (M. E.), 171 La Salle
 Purdy & Henderson (Consulting, Dry Docks & Harbor Work, Coal Handling Plants & Foundations), 1553 Monadnock blk
 Quilty, T. Frank, Wabash av
 Radford, John A. (M. E.), 204 Dearborn
 Raeder & Wood (Industrial, Architectural & Engineering, Plant Design, Construction & Equipment), 77 Jackson boul
 Randolph, S. M. (Consulting), 188 Madison
 Ravenscroft, Edward H., 2708 N Winchester av
 Rice, Geo. S. (Mining), 164 Dearborn
 Richards, Jerre T., 138 Washington
 Rickey, Lindsey V., 100 Washington
 Ritter & Mott (Consulting, Steel Structures & Foundations), 204 Dearborn
 Roberts, C. N. & V. B. (Surveyors), 97 Clark
 Roberts & Abbott Co., 164 Dearborn
 Roberts & Schaefer Co. (Consulting & Contracting, for Complete Coal Mining Plants, etc.), 84 Van Buren
 Rodgers Co. (Consulting), Monadnock blk
 Roemberg Construction Co. (M. E.), 171 La Salle
 Roney, W. H. (Contracting), Monadnock blk
 Ronneberg, Nathal (Consulting M. E.), 188 Madison
 Rossiter, Edw. A., 84 Washington
 Rowe, Geo. H. & Co. (M. E.), 115 Adams
 Rowe, Samuel M. (Mining), 364 Monadnock
 Rudolph, Emil (Surveyor), 112 Clark blk
 St. John, Arthur G., 355 Dearborn
 Salich, E. & Co. (Consulting & Constructing, Beet Sugar Factories a Specialty), Monadnock blk
 Samuel, Geo. F. (Asst. Engr.), City Hall
 Sargent Eng. Co. (M. E.), 303 Dearborn
 Sargent & Lundy (Consulting M. E., Electric Railway & Power Plants), 9 Jackson boul
 Schaub, Julius W., Monadnock blk

- Schott Engineering Co. (M. E. & Contractor for Electric & Steam Power & Lighting Plants, Water Works, etc.), 125 Monroe
 Scott, G. W. (M. E.), 188 Madison
 Seely, Herman B. (M. E.), 84 Van Buren
 Shankland, E. O. & R. M. (Consulting, Bridges, Foundations, etc.), The Rookery
 Shaw, Enos L., Monadnock blk
 Schaub, J. W., Monadnock blk
 Schmidt, Albert G. (M. E.), Monadnock blk
 Schott, W. H. (M. E.), 125 Monroe
 Shields, W. S. (Consulting), 140 Dearborn
 Shone Co. (M. E.), 134 Blackhawk
 Skinkle, Eugene T. (M. E.), 315 Dearborn
 Snedeker, Chas. T. (M. E.), 184 La Salle
 Speer, Chas. W. (M. E.), 269 Dearborn
 Stebbings, W. L. (Consulting Bridge Designing, Mill & Factory Modernizing, Inspecting, Supervising, etc.), Monadnock blk
 Stephens, Claude D. (M. C.), Monadnock blk
 Stiernberg, Louis V., 718 Balmoral av
 Strobel, Chas. L., Monadnock blk; (also Hydraulic, etc.), 270 Dearborn
 Sturtevant, George W., 279 Dearborn
 Summers, L. L. & Co. (M. E.), First Nat'l Bank bldg
 Sutter, John H., 108 La Salle
 Sweeney, John M. (M. E.), 6014 Monroe av
 Tatum, Lawrence W. (Mining), 171 La Salle
 Theilkuhl, Chas. H. (Consulting M. E.), 84 Van Buren
 Thermic Engineering Co. (M. E.), 622 Dearborn
 Thompson, Greer & Co. (M. E.), 215 Dearborn
 Thompson, Isaac, Jr. (M. E.), Monadnock blk
 Toltz & McWynn (Consulting & M. E.), Fisher bldg
 Treadwell, M. H. Co. (M. E.), 115 Adams
 Tuttle, Hy. W. (M. E.), 111 N Sangamon
 Twyman, Aaron, Pullman bldg
 Union Engineering & Construction Co. (Civil, Hydraulic & Mechanical), First Nat'l Bank bldg
 Vanderlip, H. E. & Co., 164 Dearborn
 Vanderlip & Waterman (Surveyors), 163 Randolph
 Van Valkenburg, Wm. (Surveyor), 160 Washington
 Vernet, Chas. C., 204 Dearborn
 Vogel, Hugo (M. E.), 112 Clark
 Voisard, Emil P., 6321 Rhodes av
 Von Oven, Fred. W., 135 Adams
 Wagner, Walter, 167 Dearborn
 Walker, Frank E., 4454 Woodlawn av
 Weiss, Geo. E. (M. E.), 188 Madison
 Westinghouse, Church, Kerr & Co. (Consulting M. E.), 171 La Salle
 Wheeler Condenser & Eng. Co. (M. E.), 1137 Monadnock blk
 *Whittemore, D. J. (Chf. Eng. C. M. & St. P. Ry.), 9 Jackson boul
 Williams, Benazette, 153 La Salle
 Williams, Carl B., 153 La Salle
 Williams, Edgar, 21 Quincy
 Williams, Robert E., 84 La Salle
 Williams, Theo. H., 4461 Oakenwald av
 Wilson, Edw. F. (M. E.), Monadnock blk
 Winslow, Benj. E., 59 Clark
 Wolf, Albert H., 218 La Salle
 Woerman, J. W., 164 Dearborn
 Wright, Walter B. (M. E.), 164 Dearborn
 Wyllie, Hubert D. (Consulting M. E.), 812 Monadnock blk
 Yaw, Horner J., 101 Lake
 Young, J. D. (Mining), Monadnock blk
CLINTON—Richardson, David
DANVILLE—Brancher Bros. (M. E.)
 Cottingham, Chas. (& Surveyor)
 Winn, Walter (Electric Railways, Building, Reinforced Concrete, Roofs, Foundations, etc.)
DECATUR—Burgess, Sullivan
 Loring, Geo. V. (City)
DE KALB—Gidden, Jno. W. (M. E.)
DIXON—Kerch, Chas. V. (City)
 Nesbit, Charles F.
 Shaw, George T. H.
EAST ST. LOUIS—Baker, Chas. L., City Hall
 Harper Bros., 202 E B'way
 Helm, E. S. (& Surveyor), City Hall
 Hutchinson & Jacob, Arcade bldg
EDWARDSVILLE—Sheppard, C. A. (City)
ELGIN—Abell, W. W., House Bank blk
 Dakin, Henry
 *Gabriel, Wm. A. (Chief Draughtsman, Elgin National Watch Co.)
 *Hnnter, Geo. E. (Ass't Sup't, Elgin National Watch Co.)
 Noves, H. (M. E.), The Spurling
 Price, A. M. (Consulting M. E.)
EVANSTON—Jennings, J. T. Wilson, Haskin blk
FREEPORT—Graham, G. W. (City)
 Smith, O. T.
GALESBURG—McAuley, J. B. (City)
 Ritchey, A.
GENEVA—Pease, W. H.
GOLCONDA—McCormick, W. T.
GREENVILLE—Dewey, R. K.
HARRISBURG—Abney, I. C.
 McHenry, W. A.
HAVANA—Faulkner, J. B.
JACKSONVILLE—Brown, C. W.
 Smetters, J. L.
JERSEYVILLE—Newton, A. W.
 Pittman, W. (M. E.)
JOLIET—Comstock, A., 311 Barber bldg
 Heald G. W. (M. E.), Bates Machine Co.
 *Sheldon, Samuel B. (Ass't Gen'l Sup't, Illinois Steel Co.)
 Stevens, H. A. (City)
KANKAKEE—Gregg, Robt. C.
KEWANEE—Quade, J. C.
KIRKWOOD—Davidson, M. F.
LACON—Wightman, G. F.
LA GRANGE—Cadwalader, B. (M. E.)
 Ewing, Wm. B.
LA SALLE—Byrne, Edw.
 Porter, S. D.
LAWRENCEVILLE—Buchanan, H. G.
LINCOLN—Braucher, D. S.
 Davey, T. S.
MACOMB—Holmes, Cephas
 Shannon, J. F.
MARION—Pulley, Lewis
MARSEILLES—Nichols, A.
 Ward, E. J.
MATTOON—Baldwin, Hadley (C. C. C. & St. L. Ry.)
 Loomis, A. C. (City)
METROPOLIS CITY—Geltner, C. A.
MOLINE—Kimball, Wm. H.
 Olshausen, Walter A. G.
 Paddock, Henry G. (City), City Hall
MOMENCE—Clark, J. L.
MONMOUTH—McClanahan, Thos. (City)
MOUND CITY—Mathias, J. P.
MOUNT VERNON—Smith, Kirby
 Williams, W. T., Jr.
NEWTON—Kilgore, Wm.
NORMAL—Herington, Geo. B. (Drainage, Sewerage, etc.)
O'FALLON—Tiedeman, D. F.
OLNEY—Higgins, Bryant
OQUAWKA—Moffett, E. L.
OREGON—Jakeman, Thomas
OTTAWA—Irwin, Wm. H.
 Wilson, C. F.
PARIS—Brooks, T. J.
PEKIN—Jansen, D. H.
 Selbert, Jno. R.
 Smith, Benj. F.
 Van Deusen, R. P. Co.
PEORIA—Belsley, Clay (M. E.), Masonic Temple
 Dunn, Chas. H. (& Surveyor), Court House
 Harman Engineering Co. (Sanitary & Agricultural Drainage)
 Lagron, Arthur, 11 N Jefferson av
 La Porte, Chas. W. (M. E. & Patent Drawings), Woolner bldg
 McMullen, Charles A. (C. E.), New Library Bldg.
 *Manry, Dabney H. (Consulting, Hydraulic, etc.), 129 N Jefferson av
 Woermann, J. W. (C. E.), Observatory Bldg.
 Thompson, Almon D. (Consulting), Woolner bldg
PERU—*Neureutler, A. H.
PRINCETON—Hodgman, Romanus
QUINCY—Bushnell, Web P
 Chatton, Enoch R.
 Hancock, F. L.
 Prince, Edw.
ROCHELLE—Clark, G.
ROCKFORD—*Barnes, W. F.
 Davis, C. E. (M. E., Supt Illinois Sewing Machine Co.)
 Hand, S. B.
 *Ingersoll, Winthrop (Pres., Ingersoll Milling Machine Co.)
 Main, Edw. (City Hall)
 Stowell, Chas. C., 328 N 4th
 Tissandier, Th. L. Leon de (County Surveyor)
ROCK ISLAND—Darling, Wm. A. (County), Court House
 Treichler, Wallace
SHREVEVILLE—Fish, L. E. (Consulting)
SPRINGFIELD—*Doebler, Chas. H. (M. M., Wabash Ry.)
 Du Bois, Nicholas, 231 S 6th
 Hamilton, F. H. (City)
STREATOR—Graves, E. A.
 Rolph, F. T. (City)
TAYLORVILLE—Michels, J. S.
 Powell, R. M.
THERES—Brown, Martin
URBANA—*Breckenridge, L. P. (Prof. Mech'l Eng'r'g. Univ. of Illinois)
 Lentwiler, O. A. (C. E. & M. E.), Univ. of Illinois
VANDALIA—Johnson, James H.
WAUKEGAN—Bowen, H. L. (City)
 Osterfield, C. P.
 Russell, Chas. E.
WHEATON—Herrick, G.
 Prout, Burnham & Russell
 Vallette, J. G.
WINNETHA—*Herdman, Frank E.
INDIANA.
ALBION—Foot, G. L. (Surveyor)
 Johnson, Jas. T.
 Moore, Fred. B. (Surveyor)
ANDERSON—Downey, M. H.
 Downey & Wilcox
 Ross, Alex. (Surveyor)
 Wilcox, E. J.
ATTICA—Foster, J. A.
 Sadler, G. P. N.
AUBURN—Van Auken, J. J. (City)
AURORA—Fish, Chas.
 Gridley, A. T. (Surveyor)
 Walters, Lee (City)
BEDFORD—Deckard, Lew E.
 Houston, G. C. (City)
BLOOMFIELD—Clogston, W. W. (Surveyor)
 Parker, F. M. (Surveyor)
BLOOMINGTON—Bowers, Eugene (Surveyor)
 Deckard, Lew. E. (City)
 Raeder, Geo. B. (Surveyor)
 Rathrock, D. A.
BLUFFTON—Batson, B. A. (Surveyor)
 Kiebele, Cuno
 North, Daniel O. (Surveyor)
 Powers, W. H.
BOONVILLE—Meyer, L. (City)
BRAZIL—Kattman, Frank A. (Civil & Mining)
 Mooney, Pat'k
 Sherfey, David (City)
 Sisson, F. S.
 Stevenhart, Gus.
 Wilkinson, O. E.
BROOKVILLE—Berry, Fielding (Surveyor)
 Bradburn, Chas.
 Burkhardt, John
 Carter, Calvin (Surveyor)
 Dudley, Joseph
 Lawrence, T. W. (Surveyor)
CANNELTON—Minto, Geo. (Surveyor)
 Tewlia, Owen, Jr.
COLUMBIA CITY—Miller, A. N. (City)
 Strong, E. K. (City)
COLUMBUS—Hayes, W. A. (Surveyor)
 Hege, Levi
 Right, W. H. (City)
CONNERSVILLE—Brown, J. P.
 Finan, Jno., Jr.
 Hanson, Karl (City)
 Wilkin, J. T. (M. E.), The Connersville Blower Co.
 William, C. R. Jr. (Surveyor)
 Williams, R. L. (Surveyor)
CORYDON—Armstrong, Andw. (Surveyor)
 Sharp, Dan. (Surveyor)
CRAWFORDSVILLE—Harding, Jas. A. (Surveyor)
 Hoffman, Fred
 Jamison, Alfred E.
 McConnell, I.
 Sharpe, W. E.
 Simpson, E. S. (City)
 Waugh, J. M.
CROWN POINT—Fisher, Geo. W.
 Knight, Frank (Surveyor)
 Metzler, F. (City)
 Strode, Alden (Surveyor)
DANVILLE—Franklin, W. F. (City)
DECATUR—Ernst, Chas. C.
 Fulk, W. E.
 Knoff, H. B. (City)
 McKean, G. E. (Surveyor)
 Tyndale, J. W.
DELPHI—Kirkpatrick, Elonzo E. (Surveyor)
 Obear, James
 Sines, Chas. G. (Surveyor)
 Smith, H. F. (City)
 Thompson, W. P. (City)
DUNKIRK—Badders, W. H. (City)
EAST CHICAGO—Fisher, T. W. (City)
 Johnson, E. Clarke
EDINBURG—Cutsinger, F. M. (City)
 Downes, W. E.
 Rennie, J.
ELKHART—Beardsley Gravity Dam & Cons.
 Hitchcock, L. E. (City) Co. (Hydraulic)
ELWOOD—Finan, John, Jr.
EVANSVILLE—Chipman, Paul
 Nehring, Wm. H. & Co. (M. E.), 111 Park
 Pfafflin, August (City), City bldg
 Saunders, J. D. & M. S., 315 U. 3d
 Schlotter, Frank
 Shopbell & Harris
 Temme, Wm. H. (City), Court House
 Wunderlich, C. (City)

FAIRMOUNT—Fletcher, Geo. A.
FORT WAYNE—Branstrator, Chas. W. (Surveyor)
 Burger, Franz (M. E.), 24 E Wayne
 Busbman, J. A. (Surveyor)
 Chaplin & Denny (Consulting M. E. & Patent Attorneys), 15 Bass bldg
 *Crawford, D. F. (Supt. M. P. Penna. Co.)
 Emmons, C. D.
 Goshorn, J. S., 386 E Washington
 Gosborn, William H.
 Guldin, Olaf N. (C. & M. E.), Pres. Western Gas Constr. Co.
 Haberkorn, T. H. (M. E.), 298 Calhoun
 Hunton, L. P.
 Moran, H. P. (Kerr-Murray Gas Engine Co.)
 Ninde, Wm. E. (M. E.), 1005 Crescent av
 Oids, C. L. Constr. Co. (M. E.), Elekron
 Potter, Geo. E. bldg
 Pender, F. R.
 Randail, Frank M. (City). City Hall
 Spindler, D. F. (Surveyor)
 Wiley, G. B. (Surveyor)
FOWLER—Dayie, J. P. (Surveyor)
 Vannatta, J. S. (Surveyor)
 Van Der Voort, W. S. (Surveyor)
FRANKFORT—Brown, Jas. R.
 Cheney, Chas. E. (City)
 Huffine, Chas. C. (Surveyor)
 Shane, Alex.
 Sholl, John (Surveyor)
 Taylor, W. C.
FRANKLIN—Middleton, Ed. L. (City)
 Joseph, John E. (County Surveyor)
GARRETT—Jordan, Sam'l
 Speelman, J. A.
 Van Anken, J. J. (City)
GAS CITY—Knight, Cortez
 Leonard, J. J.
GOODLAND—Alter, Lewis S.
 Hamilton, Robert (Surveyor)
GOSHEN—Cooper, John L. (City)
 Hatch, W. R.
GREENCASTLE—Bell, Carroll (M. E.)
 Denny, Jas. (City)
 Lane, A. A. (Surveyor)
 Randall, H. M.
GREENFIELD—Lewark, Frank T., Court House
GREENSBURG—Black, Hy.
 Craig, J. W.
 Hntton, J. F.
 Sandusky, Hy.
 Stagg, Clyde
 Stagg, J. A.
HAMMOND—Bridge, W. F. (Surveyor)
 Bump, E. W.
 Hutton, J. F.
 Lyons, P. J. (City)
HARTFORD CITY—Fulton, Geo. T. (City)
 Harley, Wm.
 McMichael, David A. (County)
HUNTINGBURG—Berger, Henry (City)
 Smith, M. F. (County)
 Taylor, H. E.
HUNTINGTON—Guthrie, Frank
INDIANAPOLIS—American Engineering Co., Terminal bldg
 Atkins, Wm. A. (E. C. Atkins & Co.)
 Bell, Thompson R. (M. E.), Saks bldg
 Brossman, Chas. (Consulting), Union Trust bldg
 Brown, Chas. Carroll (Consulting, Municipal Work, etc.), Commercial Club bldg
 Brubaker, Henry C. Company (Consulting & Constructing C. E.), Aetna bldg
 Covert, Paul W. (Instructor High School)
 Culley, Chas. P. (Ass't County Surveyor)
 David, Thos. H., Terminal bldg
 Deane, J. H., 420 W 30th
 De Brnin, N. H. (C. I. & E. R'y)
 *De Frees, Rollin (Consulting M. E.) Atlas Engine Works
 De Frees, Morris M., 402 N Meridian
 Fatout, Hervey B. (& Surveyor), Baldwin bldg
 Fletcher, Owen, Duvall Co. (Consulting Structural)
 Hazelrigg, Thomas H., 927 W 31
 Hill, Edward, Central Union Tel. Co.
 Howland-Shearman, Chas. H., 2643 Sutherland av
 Jeup & Moore (& Sanitary), Ind. Trust bldg
 Julian, Paul A., City Engineer's office
 *King, Robert Parsons, 2507 Park av
 Klausman, Henry W. (County Surveyor), Court House
 Leonard, Chas. M. (M. E.), 1415 Barth av
 Lingenfelter, F. C. (Ass't City Engineer), 1108 Pleasant
 Lockwood, B. D. (M. E.), C. C. C. & St. L. Ry.)
 McMath, Thos. B., Terminal bldg
 McMeans & Tripp (M. E.), State Life bldg

Mansfield Engineering Co. (Reinforced Concrete & Steam & Electric Rwy. Work a Specialty), Bd. of Trade bldg
 National Bridge Co. (Reinforced Concrete Bridge Work a Specialty)
 National Concrete Co., Traction Terminal
 Neville, M. A. bldg
 Power, J. Clyde (City), Saks bldg
 Sandusky, Harry C. (Consulting), State Life bldg
 *Schwartz, Harry A. (Chemist), 546 N Holmes av
 Shafer, Jno. A., 3719 N Illinois
 Shearer, Samuel H., 2002 N Alabama
 Silvius, E. T. & Co. (M. E.), Talbott blk
 Smith, Geo. P. (L. E. & W. Ry.)
 Snow, J. H. & Co. (M. E.), 1120 N Beville av
 Spacke, F. W. (M. E.)
 Taylor, W. M. (M. E.), 2426 E Wash'n
 Vincent, Edgar R. (M. E.), State Life bldg
 *Warrington, Jesse (Mech'l Supt., Nordyke & Marmon Co.), Morris & Kentucky av
 Whittemore, John R. (C. & M. E.), Gen. Supt. Atlas Machine Wks.
 Woodbridge, Frank, Union Trust bldg
 Woods, Robert P., Traction Terminal bldg
JASONVILLE—Blackledge, Rollin H. (City Engineer & County Surveyor)
JASPER—Wilson, T. R.
JEFFERSONVILLE—Kelly, C. W. (M. E.)
 Keith, L. Early
 Lyon, V. W. (City)
KENDALLVILLE—Bortner, Henry (City)
KENTLAND—Hawkins, B. (Surveyor)
KNIGHTSTOWN—Morrison, R. I.
 Baxter, Chas.
KOKOMO—Bruff, Jas. F.
 Ehrman, Wm. A.
 Easterling, Al. (Surveyor)
 Hunt, Ellsworth (Surveyor)
 Jones, O. O.
 Mann, W. F. (City)
 Morrow, Jackson (City)
 Smith, A. W.
LAFAYETTE—Alexander, W. F. & Son
 Arentz, F. C. H.
 Brown, George S.
 Burrage, Severance (Instructor in Sanitary Science & Sanitary Biology, Purdue University; Consulting Sanitary Engineer, International Harvester Co.), Chicago, Ill.
 Conner, Arthur W.
 Ernst, Fritz B. (Inst'r, Purdue Univ.)
 *Golden, M. J. (Prof. Practical Mechanics, Purdue University)
 *Goss, W. F. M. (Prof., Experimental Engineering, Purdue University)
 Hatt, W. K. (Associate Prof., App. Mechanics, Purdue University)
 Hoffman, Jas. D. (Associate Professor, Engineering Design, Purdue University)
 Kerr, E. W. (M. E.)
 Miller, Melville W. (Surveyor)
 Pence, W. D. (Prof. Civ. Eng., Purdue University)
 Pfifer, Chas. W.
 Robertson, C. H. (M. E.) (Instructor in Engrg., Purdue Univ.)
 Seastone, Chas. V.
 Stevenson, G. H. (City)
 Vawter, P. O. (City) (W. L.)
 Waesche, G. E. (Instructor Civ. Eng., Purdue Univ.)
 Wagstaff, C. L.
 Williamson, Fred C.
 Young, G. A.
LA GRANGE—Hosteller, J. W. (Surveyor)
LAPORTE—Burner, Hiram
 Henock, Milton J.
 Mammero, A. J. (Surveyor)
 Norris, J. D.
 *Rumely, Wm. N. (Vice Pres. & Supt., M. Lawrenceburg—Fitch, Geo. (Rumely Co.)
 Walters, Lee
LEBANON—Barker, B. F. (Surveyor)
 *Coulson, Samuel R. (County)
 Fulwider, Jno. W. (City)
 Huckstep, Thos. W. (Surveyor)
 Wade, John L. (Deputy County)
LIBERTY—Raridan, Norris (Surveyor)
LIGONIER—Gerber, E. B. (City)
 Hays, John
 Jeanerette, R. E.
 Treash, U. R.
LINTON—Cunningham, Fred.
LOGANSPOUT—Beal, Jas. A.
 Coleman, Henry F., 322 3d
 Jenkins, Atwood
 Osmer, W. A. (City), 1823 B'way
 Troutman, Harry W.
LOWELL—Clark, E. A.
 Garrison, Jas. (City)
LYONS—Clogston, W. W.
 Yeoman, S. N. (Surveyor)
MADISON—Day, W. B.
 Sering, J. J.

MARION—Overman, L. M.
 Petrie, T. E.
 Smith, Ansel R. (County)
 Smith, C. D. (Surveyor)
MARTINSVILLE—Goss, C. G. H. (Consulting)
 Johnson, Rez K.
 Phillips & Goss (Hydraulic & M. E.)
MICHIGAN CITY—Combs, O. E.
 Koehlin, Henry
 Miles, H. M. (City)
 Renkowitz, John
MISHAWAKA—*Mix, Melville (Pres. & Mgr., Dodge Mfg. Co.)
 Moore, W. S. (City)
MITCHELL—James, W. M. (City)
MONTEBELLO—Bridge, G. M. (Surveyor)
 Bushnell, Web. P.
 Davison, S. A.
 Lawri, R. A.
 Redding, Allen (Surveyor)
MOORESVILLE—Johnson, H. H. (City)
MOROCCO—Harpole, W. B.
MOUNT VERNON—Anderson, E. S. (Surveyor)
 Sarlis, George W.
MUNCIE—Crandall, F. (City)
 Gough, Chas. (Surveyor)
 Hefel, Tony C.
 Marsb, J. R.
 Storer, O. W. (Surveyor)
 Wood, W. H. (City)
NEW ALBANY—Coolman, E. B. (Surveyor)
 Mann, Martin H. (Surveyor)
 Mann, Sam'l T. (City)
NEWBURG—Haniron, Richard
NEWCASTLE—Ackley, Jacob (City)
 Clark, C. B. F. (City)
 Cook, D. K.
 Minesinger, Omer (Surveyor)
 Robe, S. A. (Surveyor)
 Troyer, J. E.
NOBLESVILLE—Cottingham, C. J.
 Findley, Herbert L.
 Mitchel, J. A. (Surveyor)
 Shanon, J. S.
NORTH VERNON—Prather, W. B. (City)
OSGOOD—Harsch, John C. (Surveyor)
 Stimpson, Earl
OTTERBEIN—Van Der Vort, W. S. (City)
PAOLI—Henderson, John
 McPheeters, A. N.
 Wilson, John (Surveyor)
PERU—Blair, Gny
 Cole, R. H. (City)
 Danes, W. S. (Supt. B. & B., Wabash R'y)
 Horan, Michael (City)
 Jackson, C. S.
 Kelly, Peter (City)
 Smith, A. W.
 Trippe, A. G.
PETERSBURG—Ficklin, William
PLYMOUTH—Butler, J. C. (City)
 English, Wm. H. (Surveyor)
 Klingler, Jerry
 North, Achilles
 Thompson, Eldridge
PORTLAND—Curran, W. G. (City)
 Frost, A. J. (City)
 Griffith, Jay (Surveyor)
 Stewart, R. P.
PRINCETON—Emmerson, G. M. (City)
 Watts, Edwyn, E.
REMINGTON—Alter, Lewis S.
RENSSELAER—Gamble, H. L. (City)
 Price, Myrt B. (Surveyor)
 Thralls, J. C.
RICHMOND—Barnard, R. E.
 Bland, Miles C.
 Charles, Fred. R.
 Collins, Wm. D., P. O. Box 171
 Dill, Howard A.
 Ferriday, Robert
 Gibson's, A. B. Sons
 Harris, Roswell
 Howard, R. A. (Surveyor)
 Hunt, Frank J.
 Kennedy, A. H.
 Sackett, R. L.
 Webber, H. L. (City)
RISING SUN—Keeney, Geo. (Surveyor)
 Monroe, C. (Surveyor)
ROCKVILLE—Campbell, J. T.
 Ott, Claude (Surveyor)
RUSHVILLE—Dill, Wm. (City)
 Downey, M. H. (Surveyor)
 Herkless, A. R.
 Kelley, Geo. R. (Surveyor)
 Kelly, Peter
 Stewart, A. L.
SALEM—Prow, John C.
SEYMOUR—Bliss, W. W. (Surveyor)
 Slagle, Geo. (City)
SHELBYVILLE—Crawford, Willard F.
 Isley, W. H.
 Phillips, J. H. (City) (Surveyor)
 Webster, C. F. (Surveyor)

SOUTH BEND—Alward, Albert
 *Evans, Wm. F. (M. M., Stndebaker Bros. Mfg. Co.)
 Graves, Wm. E.
 Hammond, A. J. (City)
 Keller, Fred W. (Surveyor)
 Melghan, John F.
 Moore, W. S. (Ass't City)
 Moore, Wm. (Ass't City)
 Whitten, Wm. M.

SULLIVAN—Bailey, Dick (City)
 Chastain, Manford (Surveyor)
 Crowder, E. S. (Surveyor)
 Cunningham, F. M. (Surveyor)

SYRACUSE—Newberry, S. B.

TELL CITY—Cooper, J. M. & Sons
 Minto, Geo. (Surveyor)

TERRE HAUTE—Andrews, Wm. M.
 Bertenshaw, B. A.
 Brannon, Clifford
 Burns, R. M.
 Coburn, Maurice (Eng'r M. of W., Van R'y)
 Cook, G. H. (S. I. R'y)
 Faley, C. B.
 Floyd, W. H.
 French, C. G. (S. I. R'y)
 *Gray, Thos. (Dir. Dept. Dynamic Engineering, Rose Poly. Univ.)
 Grimes, Geo. R. (also Hydraulic), 521 Ohio
 Harris, W. H. (Surveyor)
 Houghton, E. R. (S. I. R'y)
 Howard, Ralph H. (Van R'y)
 Howe, M. A. (Prof. Civ. Eng., Rose Poly. Inst.)
 Hunter, James W.
 McCormack, R. L. (Instructor Civil Eng., Rose Poly. Inst.)
 Marshall, H. S.
 Paige, W. R.
 Patterson, G. S. (Civil & Mining)
 Ranno, F. W.
 Scott, Chas.
 Shancheberger, E. L.
 Simpson, Geo. H., 530 S 7th
 Smith, H. C.
 Sparks, Ralph
 Starbuck, J. E.
 *Wagner, Frank C. (Associate Prof. Steam Engineering, Rose Poly. Univ.)
 Watson, A. C. (Van R'y)
 Zinn, A. S.

TIPTON—Crail, Ira F. (City)
 Gott, A. W. (Surveyor)
 Van Buskirk, Robert (City)

UNION CITY—Badders, W. H. (City)
 Bell, S. R. (City)
 Gittinger, W. H.

VALPARAISO—Carver, Thos. H.
 Lembke, Chas. F.
 Rankin, Henry (Surveyor)

VEEDERSBURG—Burgner, Wm.

VEVAY—Danglade, Ernest (City)

VINCENNES—Dunn, Thomas
 Hershey, Jere
 Hershey, Joseph (City)
 Nesbitt, B. F.
 Rodgers, John
 Spiker, J. S.
 Williamson, E. C.

WABASH—Fowler, Wm.
 Howe, C. E.
 Woods, Rob't (City)

WALKERTON—Leslie, Geo. (City)

WARSAW—Hughes, Caleb
 McCarter, G. W. (Surveyor)
 Sellers, Chas. L. (Surveyor)

WASHINGTON—Faith, Edw. C. (City)
 Faith, Grant
 Fritch, L. C.
 Poland, W. B.
 Smiley, T. J.
 Stimpson, Earl

WHITING—Bridge, W. F. (Surveyor)
 Evans, Jas. (City)

WILLIAMSPORT—Andrews, Morton C.
 Carmichael, Wm. P. Co. (Consulting)
 Gemmer, W. H.

WINAMAC—Boyles, John G.
 Cox, Joseph (City)

WINCHESTER—Bates, F. E. (Surveyor)
 Hinshaw, J. E. (Surveyor)
 Wright, Lee (Surveyor)
 Yunker, C. C. (City)

WORTHINGTON—Maxwell, C. A.

IOWA.

AFTON—Chapin, E. P.

ALGONA—Lilly, A. J.

AMES—Ashbaugh, Lewis
 Reyer, Samuel W.
 *Bissell, G. W. (Prof. Mechanical Engineering, Iowa State University)
 Lanphear, B. S.
 Marston, A.
 Spinney, L. B.

ANAMOSA—Whaten, J. F.

BEDFORD—Randolph, W. F.

BOONE—Brown, G. W.
 Kastberg, Karl C.
 Russell, C. E. (City)

BURLINGTON—Flickes, C. R.
 Holbrook, Royal H.
 Laubensfels, G. A.
 Steyh, Wm., 1213 Sumner
 Young, N. S.

CARROLL—Hoffman, I. W., Carroll R. R.

CEDAR RAPIDS—Brown, J. M.
 Davis, Garret
 Diserens, F. L.
 Fatherson, T. W.
 Gale, E. G.
 Greene, Wm. J.
 Holbrook, Royal H., 1515 2d av
 McCauley, Thos. Francis, 314 S 2d, W.
 Merridith, Geo. H. (City)
 Randall, P. F., 616 5th av
 Smith, Percy Prehle
 Tomlinson, Jos., 216 N 13th
 Wardle & Yeager (Consulting, Municipal R'ys, etc.)
 Warriner, T. R. (Also Hydraulic, Consulting, Municipal & Public)
 Wilson, Chas. T.
 Wynn, G. W. (also Hydranlic), 111 1st av

CENTERVILLE—Berry, Wm. W.
 Holbrook, P. S.

CHARLES CITY—Rozine, F. B.

CHEROKEE—Pingrey, J. S.

CLARINDA—Hartford, I. N. J.

CLEAR LAKE—Colby, Wm.

CLINTON—Chase, Chas. P. (City)
 Hart, R. C.
 Iowa Engineering Co. (Also Hydraulic)
 Schnell, August (City)

COUNCIL BLUFFS—Cook, E. E.
 Judson, L. P. (& Surveyor)

CRESCO—Richards, W. L.

CRESTON—Cattermole, R. W.

DAVENPORT—Beuck, C. Henry
 Boudinot, Allen R.
 Brayton, B. B.
 Francis, Charles
 Kimball, W. H.
 Murray, Thos.
 Worrall, Wm. B.

DECORAH—Schenck, C. E.

DENISON—Pink, E. T.
 Huntington, Harry

DES MOINES—Blank, T. L., I. L. & T bldg
 Budd, J. W. & Mongher (C. E.), Younger-
 Carss, Jas., 849 13th man bldg
 Carss, M. M., 849 13th
 Crellin, Edw. W.
 Delo, C. G.
 Des Moines Bridge & Iron Works, Tnttle
 nr 9th
 Des Moines Engineering Bureau, Good blk
 Dickinson, Warren, 1511 10th
 Dohson, Geo. D.
 Dohson, Guy E.
 Eberhardt, G. A., 1908 W 8th
 Higgins, Lafayette, Good blk
 Hockett, J. L., 121 Charles
 Jackson, W. H.
 Kastberg, K. C., 510 Good blk
 King, Geo. M. (City), City Hall
 Lambert, Geo. F., 312 Youngerman blk
 Lawlor, T. F., Equitable bldg
 Lovell, W. D. (Consulting, Sewer, Water
 Works, Electric Light Plants)
 Marsh, J. B. (Consulting), Equitable bldg
 Miller, Geo. W., 2415 Atkins
 Morgan, A. L., 570 Union Station
 Moss, B. N.
 Schreiner, B. (also Hydranlic), 1445 Maple
 Stark, N. M. & Co., Crocker bldg
 Stone, L. H., 1317 W 22d
 Turner, J. W., Youngerman blk
 Wilson, Jas., 315 Center

DOW CITY—McHenry, Morris

DUBUQUE—Anderson, Eugene, 361 Julien av
 Baumgartner, Chas. H., 815 Main
 Blake, C. E. (City Engineer), 361 Alta Vista
 Brown, J. E., 1337 Bluff
 Gniffke, Henry B.
 Hyde, E. S. (Surveyor), 25 Pickett
 Ilg, Paul (Connty), Court House
 Linderman, M.
 Tschirgl, M. Jr. (also Hydranlic, etc.), 46
 Henion

EMMETTSBURG—Gront, Leroy
 Moncreif, John

ESTHERVILLE—Callwell, R. B.
 Herner, P. G.

FOREST CITY—Ambrose, J. H.

FORT DODGE—Easley, Frank L.
 Reynolds, C. H.

GLENWOOD—Dean, Seth.

GRAND JUNCTION—Thomson, Geo. M.

HAMPTON—Kelly, Wm. F.

HARLAN—Peterson, P. I.

HAWARDEN—Heald, A. W.

IOWA CITY—Andrews, Launcelot W.
 Cox, A. J.

Dey, C. T.
 Ellsworth, G. H.
 Fitzpatrick, T. J.
 Lambert, Byron James
 Magowan, C. S. (City)
 Raymond, Wm. G. (C. E.)
 Schulze, J. O.
 Sims, A. V.
 Welch, H. S.
 Woodward, S. M.

JEFFERSON—Bean, H. W.

KEOKUK—Cole, J. H.
 Diver, J. B.
 Meigs, Montgomery
 Robertson, J. R. (City)
 Williams, L. E.

KNOXVILLE—Ney, James

LE MARS—Bowman, L. K.
 Myers, J. W.

LEON—Hollinger, J. M.

MANSON—Thompson, W. L.

MARION—Las, J. C.
 Lary, J. H.
 Parsons, S. N.

MARSHALLTOWN—Baughman, O. A.
 Bremmer, Wm.

MASON CITY—Lary, J. H.
 Sweet, B. J.
 Vincent, C. F.
 Wilson, F. P.

MOUNT AYR—Ross, H. H.

MOUNT VERNON—Alden, F. S.
 Stanley, O. E.
 Williams, Sylvester N.

MUSCATINE—McCambell, R. H.
 Ryan, J. J.

NASHUA—Scales, H. A.

NEVADA—Allen, M. C.
 Wells, Jno. M.

NEW HAMPTON—Bowen, A. D. (M. E.)
 Cotant, G. W.
 Kress, Jos. (M. E.)
 Safford, Chas. (M. E.)

NORTHWOOD—Dwelle, H. V.

OAKLAND—Burrows, J. F.

OELWEIN—Little, B. F.

OSAGE—Brown, C. D.

OSKALOOSA—Cavern, Nathaniel
 Davis, J. E.
 Shannon, J. A.

OTTUMWA—Allen, C. R.
 Brady, J. T.
 Burton, S. H.
 Dittmar, John

POSTVILLE—Williams, Wilkes

RED OAK—Christie, Wm., Jr.

ROCK RAPIDS—Gilman, J. P.

ROLFE—Malcolm, Fred'k

SAC CITY—Martin, A. F.

SHELDON—Frisbee, Jerome
 Wade, Frank E.

SIBLEY—Campbell, M. J.

SIOUX CITY—Gere, Thos. P.
 Holmwig, Martin
 Lewis, J. M. (City)
 Skeels, Geo. (City)
 Wakefield, L. F.

SPENCER—Moore, Peter M.

SPIRIT LAKE—Johnson, J. M.

STORM LAKE—Harding, F. M.
 Parrish, J. F.

TOLEDO—Holstead, W. H.
 Sweatt, B. J.

WASHINGTON—Kyle, D. O.

WATERLOO—Newton, M. L.
 Silppy, R. B.
 Wilson, Chas. T.

WAUKON—Dayton, H. O.
 Ratcliffe, John G.

WAVERLY—Hoover, H. S.
 Rohish, A. A.

WEBSTER CITY—Evert, N. B.
 Fox, E. E.
 McComb, Wm. T.
 Quackenbush, J. E., 1600 Wilson av

WEST LIBERTY—MacDonald, F. A.

WEST UNION—Little, B. F.
 Neff, H. M.

WILLIAMSBURG—Blazier, Herbert E.

KANSAS.

ABILENE—Romig, A. C.

ATCHISON—Giddings, Fred. (City)
 Woodworth, C.

BELLEVILLE—Ware, I. O.

BELOIT—Wilson, N. L.

CHANUTE—Wells, W. N.

CLAY CENTER—Allen, Newton
 McLaughlin, Wesley

COLUMBUS—Jenkins, J. H.
 Wallace, Joseph

COUNCIL GROVE—Harlan, T. B.
 Manley, W. H.

EMPORIA—Brown, Matthew (City)
Smith, A. J.

ERIE—Cook, N. V.
Greene, Frank

EUREKA—Knudson, J. C.

FORT SCOTT—Toles, E. E.

FREDONIA—Domblaser, Benjamin
Luckey, J. M.

GALENA—Duncan, W. H.

GARDEN CITY—Wicks, T. E.

GIRARD—Christian, S. P. (City)
Daniels, F. P.

GOODLAND—Long, D. A.

GREAT BEND—Markey, B.
Newcombe, S. A.

HIAWATHA—Beecher, C. P.
Marrion, T. J.

HOLTON—Jones, M. Z.

HUTCHINSON—Carpenter, F. H.
Colt, C. W.

IOLA—Stover, L. P.

KANSAS CITY—Barclay, Wm., 710 Minn. av
Brazenill, Wm. 2120 N 5th
Ela, R. E., 2002 N 6th
House, Francis, 720 Ferry
Lasley, J. H. (County Surveyor), Court House

McAlpine, R. L., Portsmouth bldg

McClung, C. L., 2116 N 10th

Miller, J. C., 640 Washington

Stalnaker, W. H., 525 Ohio

KINGMAN—Benefiel, T. S.
Childs, W. H.

KINSLEY—Lewis, J. M.

Manuel, S. T.

LARNED—Babbitt, D. E.

McConaughbhay, J. D.

LAWRENCE—Diemer, Hugo (Consulting M. E.)
Duffey, Lloyd

Wheeler, Holland (City)

LEAVENWORTH—Abry, H. E., 728 Spruce

Barnes, D. M., 407 Cherokee

Fisher Machine Works (M. E.)

Hackbusch, H. C. F., 511 N. Esplanade

Parlin, M. D., City Hall bldg

LYNDON—Runnells, L. S.

LYONS—Brown, Jesse

MANHATTAN—Noble, O. M.

MARION—Case, Reese

MINNEAPOLIS—Powell, C. S.

NORTON—Newell, J. C.

OVERLIN—Coldren, E. M.

OLATHE—Pierson, Jesse

OSBORNE—Paul, Samuel

OSKALOOSA—Clark, E. E.

Davis, T. H.

OSWEGO—Bayless, E. P.

Bogges, J. W.

Bushnell, A. B.

OTTAWA—Eldridge, A. E.

Service, J. A.

Titus, A. C.

PAOLA—Roscoe, N. J.

PARSONS—Gaffey, M.

Kutz, Wm. H.

*Maddocks, Wm. (Chief Draughtsman, M. D., M. K. & T. Ry)

PHILLIPSBURG—Gray, J. M.

PITTSBURG—Glass, J. D.

Walte, C. G. (City)

PRATT—Hickle, E. E.

Turner, Lindsay

ROSEDALE—Mitchell, F. A.

RUSSELL—Dollison, J. F.

Russell, W. G.

ST. JOHN—Smith, Sherman

SALINA—Farrar, W. F.

Hamilton, O. P.

SEDAN—Denick, A. J.

Goodell, J. W.

SENECA—Mathews, Mortimer

SMITH CENTER—Withington, N. H.

STOCKTON—Hoskins, R. W.

Wells, M. J.

TOPEKA—Barnes, Wm. H. (City)

Emerson, H. (consulting), Santa Fe R. R.

Graftstrom, Edw. (M. E.), Santa Fe R. R.)

Hinckley, H. V. (also Hydraulic, etc.)

Huntoon, Joel

Tweeddale, Wm. (also Hydraulic, etc.), 707 Kansas av

Whitaker, J. B., 525 Kansas av

Winkley, H. V.

TROY—Hills, H. A.

Marsh, F. P.

WELLINGTON—Roberts, C. L.

WICHITA—Jackson, H. L.

Munderello, R. H.

Wells, C. B. (City)

WINFIELD—Boynton, J. S. (City)

Bradley, J. M.

Cairns, Alexander

YATES CENTER—Tallman, L. N.

KENTUCKY.

OATLETTSBURG—McDye, John

CLINTON—Atwood, T. L.

COVINGTON—Gunn, Wm. E., City Hall

Kennedy, Jos. D., 1547 Scott

Kennedy, T. H., College bldg

EDDYVILLE—Rogers, T. J.

ELIZABETHTOWN—Morgan, W. G.

FLEMINGSBURG—Hunter, J. W.

FRANKFORT—Marshall, B. (City)

GRAND RIVER—Moore, Enos L. (M. E.)

HARRODSBURG—Geutry, C. W.

HENDERSON—Eastlin, R. S.

Jenkins, T. M. (M. E.)

Kimmel, M. M.

Kimmel, S. H.

Steffy, Joe. (M. E.)

HOPKINSVILLE—Meecham Eng. & Construction

LEXINGTON—Corbin, Joshua Co. (O. E.)

*Faig, John T. (Asst. Prof. Mechanical En-

gineering, State College of Kentucky)

O'Neil, P. P. (City)

Totten, A. I.

LOUISVILLE—Butler, Pierce (Consulting, Hy-

draulic & M. E.), Norton Bldg.

Cook, C. Lee (M. E.), 1052 3d

Craden, Wm. A. (Surveyor), 2415 Rowan

Dawley, H. A., 940 6th

De Funiak, Fredk., 204 E. Chestnut

Doyle, Chester L. (M. E.), 1518 1st

Hamilton, T. S. (M. E.), 1406 Garvin

Herman, C. (Consulting, Hydraulic), 540 3d

Holmboe Co. (Consulting & Contracting),

Lincoln Savings Bank bldg

Joseph, O. G. (Consulting, Steel Structures,

Reinforced Concrete, etc.), Lincoln Sav.

ings Bank bldg

Metzger, J. A., 117 W. Walnut

Miller, Howard (& surveyor), 216 5th

Morris, Marshall, 1638 3d

Parsons, C. W., 341 5th

Shaw, Granville W., 1358 Cherokee rd

Stonestreet & Ford (& Surveyors), Louis-

ville Trust bldg

Young, R. H. (Co. Surveyor), Court House

LUDBLOW—Weaver, J. J.

MIDDLESBORO—Merwin & Richardson

NEWPORT—Hormung, Geo. (Hydraulic)

Lindsey, Geo. G., 7 E 4th

Morridge, J. B., Court House

Morton, B. R., 9 E 4th

NICHOLASVILLE—Huggins, O. B.

OWENTON—Lee, B.

PROVIDENCE—Palmer, J. D.

SPRINGFIELD—Roberts, Simpson

VERSAILLES—Hifner, M. B.

LOUISIANA.

ALEXANDRIA—Sylvester, I. W. (City)

BATON ROUGE—Swart, B. (City)

CINCLARE—*Sammons, E. A. (Supt., Cinclare

LAFAYETTE—Babin, E. S. Central Factory)

MONROE—Duty, M. J. (M. E.)

NEW IBERIA—Broussard, Sylvio (M. E.)

Gullfoux, V. P.

NEW ORLEANS—Bell, Alonzo O., 226 Carondelet

Borde, Geo. U. (consulting), 226 Carondelet

Brosnan, D. M. (& surveyor), 1205 7th

Brown, Frederick Co. (Ltd.), 226 Carondelet

Brown, Henry C., 121 Carondelet

Christie & Lowe (M. E.), 107 Camp

Coleman, John F. (consulting), 226 Carondelet

Daney & Waddill (& Surveyor), 337 St.

Charles

De Armas, Geo. (Surveyor), 137 Carondelet

Enderly, Edw., 738 Union

*Gregory, Wm. B. (Asst. Prof. Expl En-

gineering & Mechanism, Tulane Univ.)

Harrod, Benj. M., 225 Carondelet

*Johnson, Lewis (Pres. Johnson Iron Works

Ltd.), Julia & Delta

Joor, Wm. E., Hennen bldg

Krumhaar & Alken, Denegre bldg

Lewis, C. U. (City Surveyor's Office), 606

Gravier

*Lockett, A. M. (M. E.), 343 Baronne

Morris, J. C., 107 Camp

Palestine, Robt., 830 Canal

Payne, F. T. (C. E. & Surveyor), Hennen

bldg

Payne & Joubert (Contracting M. E.), 423

Phillie, Edgar, 937 Orleans Carondelet

Reed, Warren B. (Consulting)

Seghers, D. E. & Son (Surveyors), 335

Turley, Jno. K., 309 Baronne Carondelet

SHREVEPORT—Collins, F. M. (M. E.), 141

Dorch, J. M. (City) Anne

Jenkins, B. F.

Jeter, J. W. (M. E.), Market

Martin, W. E.

Oliver, Ben. (M. E.), Texas av

Wilson, Geo. R., 139 Anna

Woodward, Wilkie

MAINE.

AUBURN—Greenleaf & Doring, Elm blk

Swift, R. A., 77 Spring

AUGUSTA—Getchell, Wm. B. (City), 243 Water

Wing, A. R., 243 Water

BANGOR—*Clark, Chas. B. (Sup't, Eastern

Mfg. Co. Plant), 60 B'way

Coombs, Phillip H., 12 Exchange blk

Crosby, Wm., Kenduseag blk

Marston, Frank L.

Vicery, Gilbert S. (City) City Hall

BAR HARBOR—Lord, E. I.

BATH—Hayden, H. W. & Co.

*Hyde, Chas. E. (Marine), Bath Iron Works

*Hyde, Jno. S. (Supt. Engineering Dept.,

Bath Iron Works)

BIDDEFORD—Dennett, W. S.

BOOTHBAY HARBOR—Baldwin, F. W.

BRUNSWICK—Crawford, J. W.

BUCKSPORT—Spofford, Parker

CALAIS—Gardiner, Benj. (& Surveyor) (City)

CAMDEN—Crawford, M. T.

DEERING—Barbour, I. W. (City)

ELLSWORTH—Wyman, Levi A.

FARMINGTON—Nichols, Walter

GARDINER—Danforth, Frederic

Hull, Frank E.

Robbins, C. A. & Son (M. E.)

LEWISTON—Jones, Jno. A. (City), City Hall

Straw, John B., 124 Pine

MACHIAS—Sargent, Paul D.

MILLINOCKET—*Ferguson, H. S. (Chief En-

gineer, Great Northern Paper Co.

NORWAY—Stevens, S. A.

OLD TOWN—Blanchard, Chas. G.

Bussell, S. J.

Hunt, Frank

Mullen, Charles W.

Sewell, J. W.

PARIS—Vose, George L.

PATTEN—Robinson, Halbert G.

PORTLAND—Bennett, Raymond F., 3 Moulton

Fenn, Chas. W., 11 Exchange

Fernald, Geo. N. (City), City Hall

Forrest, Thos. E., Cushings Island

Isley & Cummings, 57 Exchange

Jones, Jas. B., Island av. P 1

Jordan, Edward C. & Co., 31 1/2 Exchange

Moulton, A. H. (M. E. & Consulting)

Richardson, Percy H., 122 Exchange

Staples, C. E., off Lighthouse rd., Bowery

RIDGONVILLE—Goodwin, Burton W. Beach

ROCKLAND—Tripp, O. H.

Exall, T. P., 121 W 20th
 Faust, Horace K., 224 S B'way
 Fendall, B. T., City Hall
 Goldberg, M. (M. E.), 1210 Linden av
 Graefe, Herman E., B. & O. bldg
 Granbery, James E. & Co. (Consulting), 314
 Gray, Newton M., City Hall N Holiday
 Greebaum, Joseph, 2537 Penn av
 Greiner, John E., B. & O. bldg
 Hambleton, F. H., 912 N Charles
 Hanna, Robt. N., Equitable bldg
 Harris, J. M., 511 Park av
 Hayes, Roy B., Custom House
 Herrman, H. E., 1800 N Washington
 Hoak, Chas. A., City Hall
 Hopkins-Barnett Co., Calvert bldg
 Howe, Chas. H. R., B. & O. bldg
 Hutton, N. H., City Hall
 International Engineering Co. (Consulting
 & Contracting), Md. Trust bldg
 Jones, Thos. G. (Consulting & Contracting)
 Kellhoitz, Pierre O. (Consulting & Con-
 tracting), Lexington & Liberty
 Kennedy, Philip C., City Hall Annex
 Keyser, Frank W. (Consulting & Contract-
 ing), Md. Savings Bank bldg
 Lacy, Robt., 1630 Linden av
 Lemley, Cassius McC. (Co. Surveyor), 1712
 N Calvert
 Lowndes-Mitchell Engineering Co. (Consult-
 M. E. & C. E.), Law bldg
 Manning, W. T. (Consulting), Equitable bldg
 Martenet, S. J. & Co. (& Surveyors), 18 E
 Lexington
 Maryland Geological Survey, Johns Hopkins
 University
 Mavin, Robt. T. (& Surveyor), 14 E Lex-
 ington
 McAnulty, John A. (M. E.), 206 N. Holl-
 McCracken, M. M., B. & O. bldg day
 McLaughlin Bros. (Inc.) (Consulting & Con-
 tracting), 100 E Lexington
 Newton & Painter (Consulting), Profession-
 al bldg
 Peeples, Wilbur H. (Consulting), American
 bldg
 Penniman & Fairley (Consulting & Con-
 tracting), Marine Bank bldg
 Phelps, Chas. E., Jr., City Hall
 Poole Engineering & Machine Co. (M. E.),
 Quick, Alfred M., City Hall Woodberry
 Ravenscroft, Robt. A. (Surveyor), Custom
 House
 Reeder, Chas. L. (Consulting M. E.), Equi-
 table bldg
 Reushaw, Robt. L. (Surveyor), 106 Jackson
 pi
 Roberts & Abbott Co., Md. Trust bldg
 Rutledge, J. J. (Mining)
 Sangmeister, Rudolph, Custom House
 Scott, Jas. B. (Consulting M. E.), Md. Sav-
 ings Bank bldg
 Shirley, Jos. W., City Hall Annex
 Stillwell, L. B. (Consulting), Continental
 Sudler, Emory, The Preston Trust bldg
 Taylor, Sylvanus E., 716 N Cary
 Thomas, Raleigh C. (& Surveyor), 210 E
 Lexington
 Topographical Survey City of Baltimore,
 City Hall Annex
 Tustin Septimus P. (& Surveyor), 18 E Lex-
 ington
 Twamley, Wm. P. (& Surveyor), 102 E Lex-
 ington
 United States Engineers' Office, 812 St.
 Varney, Wm. W. (Consulting & Contract-
 ing), Calvert bldg
 Walker, Wm., 14 E Lexington
 Welsh, Geo. T., Equitable bldg
 Weston, B. Latrobe, Ingram bldg
 Williams, Samuel T. (M. E.), 223 N Calvert
 Wrenshall, Jno. E., 1037 N Calvert
CUMBERLAND—Beall, L. L.
 Brackett, Ernest F. (Mining)
 Le Fevre, D. P. (County Engineer)
 Patterson, T. L.
 Schaldt, J. C.
 Schriver, J. C.
HAGERSTOWN—Evans, Richard
MOUNT SAVAGE—Bruck, Henry T. (Supt. of
 M. P., Cumb. & Penn. R. R.)
SALISBURY—Polk, W. U.

MASSACHUSETTS.

ADAMS—Haskins, C. C.
 Sayles, Chas. F.
AMESBURY—Tilcomb, John P., 111 Friend
ARLINGTON—Adams, Henry S.
ATHOL—Caswell, Lilley B.
ATTLEBORO—Hyde, K. H.
 Luther, W. J.
AYER—Hovey, Horace C.
BEVERLY—Berry, W. J., 153 Cabot
 *Kaven, Moses B. (Supt., United Shoe Ma-
 chinery Co.)

Hammond, Frank W., 153 Cabot
 Porter, A. J., 222 Cabot
BOSTON—Adam, James, 294 Washington
 Adams, E. P., 53 State
 Adams, H. S. (Wharf & Dock Construction,
 etc.), Ames bldg
 *Agassiz, Alexander (Pres., Calumet &
 Hecla Mining Co.), 12 Ashburton pl
 Alexander, Geo. (Consulting), 60 State
 Aliis, Solon M., 36 Bromfield
 Almy, Wm. F. (Mining), 50 Congress
 Anmldown, Albert M., Pemberton bldg
 Amster, Nathan L. & Co. (Mining), 80
 Devonshire
 *Ashton, A. C., 271 Franklin
 Aspinwall & Lincoln (Consulting & Survey-
 ors), 120 Tremont
 Associated Mining Engineers Corporation
 (Mining), 50 Congress
 Atlantic Works (M. E.), 60 Border, E. B.
 Austin, Hy. H., 120 Boylston
 Babson, Geo. N., Tremont bldg
 Badger, W. A., 1117 Columbus av
 Barbour, F. A., Tremont bldg
 *Barrus, Geo. H. (Expert & Consulting,
 Steam & Steam Plants), Pemberton sq
 Bartlett, Chas. H. (Consulting), Pembro-
 ton bldg
 Bates, Walter C., 94 Green, J. P.
 Baxter, Chas. F., 6 Beacon
 Beil, Louis (Consulting), 120 Boylston
 Bickford, John H., 110 State
 Blake & Symonds, 8 Beacon
 Blanchard Machine Co. (M. E.), 64 State
 Blood & Haie (M. E.), 10 P. O. sq
 Blum, A. (Mining), 43 Tremont
 Bowditch, El. W., 62 Devonshire
 Brackett, Dexter, 1 Ashburton pl
 Branch, Ernest W., Tremont bldg
 Brooks, Frederick, 31 Milk
 Brown, H. H. (Consulting), 739 Boylston
 Brown, Walter C. (M. E.), 12 Pemberton
 sq
 Brown, Wm. S. (Consulting M. E.), 15
 School
 Buss, Edward A. (Consulting), 85 Water
 Cann, J. B. (Consulting), 178 Devonshire
 Carmichael, Henry (Mining), 15 Exchange
 Carpenter, Eugene (Consulting & M. E.),
 Carson, Howard A., 15 Beacon Newton
 Carter, Henry H. (Consulting), 95 Milk
 Cassidy, A. S., 62 Devonshire
 Coffin & Thorpe, 46 Cornhill
 Coyne, Jas. (M. E.), 121 Haverhill
 Crosby, W. O. (Consulting), Mass. Institute
 of Technology
 Cunnock, John (Mill M. E.), 186 Devonshire
 Dammerall, Jas. W. (M. E.), 94 High
 Davis, Edmund S., 15 Beacon
 Dean, F. W. (Consulting M. E.), 53 State
 Densmore & Leclerc (Consulting), 15 State
 De Wolf, J. O. & Co. (M. E.), 159 Dear-
 Dinsmore, Geo. F. (Consulting), Old South
 bldg
 Dorr, Edgar S., 30 Tremont
 Duquet, Asa M. (M. E.), 453 Atlantic av
 Ellis, A. E. (M. E.), 112 Water
 Ellis, Benj. W., 101 Milk
 Eneas, Aubrey G. (M. E.), 50 Congress
 *English & Flett, 226 Congress
 Eustis, A. H. (Mining), 131 State
 Eustis, F. A. (Mining), 131 State
 Eustis, W. E. C. (Mining), 131 State
 Farnum, Loring N. Co., 53 State
 Felton, B. R. (Also Hydraulic), Tremont
 Fernald, Clarence T., 101 Milk bldg
 Forster, Edward S., Pemberton bldg
 Foster, Frank A., 34 School
 Fraser & Clark (Consulting Marine), 88
 Broad
 Freuch, Hollis & Alex. Hubbard (Consult-
 ing), Albany bldg
 French, Zackary T. (M. E.), Old South bldg
 Frizell, Jos. P., 75 Linden, Dor.
 Fuller, A. D. (Consulting), 3 Hamilton pl
 Fuller, Frank L. (Consulting, Civil & Hy-
 draulic), 12 Pearl
 Fuller, Whitney Survey's Corporation (&
 Surveyors), 15 Court sq
 Gannett, Chas. H. (& Surveyor), 53 State
 Geist, Frank W., 85 Water
 Gooding, Chas. S. (Consulting M. E. &
 Patent Solicitor), 28 School
 Guiler, Gordon Engineering Co. (M. E.), 10
 Broad
 Hall, Frederick P., 85 Devonshire
 Hancox, Benj., Jr., 1 Ashburton pl
 Hannan, Wm. E., 34 School
 Harriman Bros., 53 Charles
 Harrington, Ephraim & Co. (Consulting C.
 E. & M. E.), Pemberton bldg
 Haven, H. M. (M. E.), 53 State
 Hawes, Louis E. (Consulting, Civil & Hy-
 draulic), 101 Tremont
 Hemenway, E. Perley (M. E.), The Kilby
 Hersey, F. M., 62 Devonshire

*Hibbard, Thos. (& Treas., Geo. Lawley &
 Son Corp.), 696 E 1st, S B
 Hill, Ray Engineering Co. (Consulting), 110
 State
 Hill, R. H. Co. (M. E.), 70 Kilby
 Hodges, Gilbert (Consulting), 131 State
 Hodges & George (Consulting), 6 Beacon
 Hollingsworth, L., Jr. (M. E.), 54 Kilby
 Holman, Geo. U. G. (Consulting), 84 State
 Howe, Edw. W., 65 City Hall
 Howland, Albert H., 110 Tremont
 Hutchinson, W. Spencer (Mining), 15 State
 Hyde, Danl. W. (& Surveyor), 15 Court sq
 Jack, Geo. M., 62 Devonshire
 Jacobs, Davis & Barringer (Consulting), 95
 Jackson, Wm. (City), 50 City Hall Milk
 Jackson, Wm. H., 40 Chestnut
 Johnson, Wm. S., 101 Tremont
 Kelly, Wm., 366 W B'way
 *Kendrick, Paul H., Ingalls & Kendrick,
 80 Sudbury
 Kimball, R. D. (Consulting), 6 Beacon
 Kitfield, Edw. H. (Consulting M. E., Elec-
 tric Railway & Lighting & Power Plants
 & bldgs.), 53 State
 Lapworth, E. W., 14 Old Court House
 Libby, Wilbur L. (Mining), Old South bldg
 Milk
 Lockwood, Green & Co. (Mill M. E.), 93
 Federal
 Lockwood Mfg. Co. (M. E.), 61 Sumner,
 E. B.
 Lombard, Walter E. (M. E. & Draughts-
 man), 7 Water
 Long, J. H. Machine Co. (M. E.) 184 High
 Lowe, N. M. (M. E.), 88 Court
 McClintock, John N. (Consulting & C. E.),
 Old South bldg
 McClintock & Woodfall, 15 Court sq
 McLauthlin, Geo. T. Co. (M. E.), 120 Fulton
 McLean, Sidney W., 1196 Morton, L. M.
 McInnis, Angus A., 95 Milk
 Macksey, H. V., Tremont Temple
 Mahoney, W. F., 30 Tremont
 Main, Chas. T. (Consulting M. E.), 45
 Manley, Hy., 52 City Hall Milk
 Manson, Daniel E. (Consulting M. E.), 131
 Marden, H. H., Jr., 25 Bloomfield State
 Metcalf & Eady, 14 Beacon
 Metropolitan Contracting Co. (Consulting),
 95 Milk
 Mildram, H. C., Old Court House
 Miller & Franklin Co. (M. E. & Production
 Engineers), 319 Washington
 Milne, Alex. P., 88 Broad
 Miner, Franklin M., Old Court House
 Moaks & Johnson (M. E.), 20 Central
 Moore & Co., Pemberton bldg
 Moses, H. H., 17 Ellis Rox.
 *Moultrop, I. E., 39 Boylston
 Murray, Leon B., 46 Cornhill
 Newman, Rolf R., 14 Beacon
 Packard, Geo. A. (Mining), 50 Congress
 Palmer, Alfred T., 53 State
 Palmer, John E., Old South bldg
 Payne, F. E. & Co. (Consulting), 6 Beacon
 *Peabody, Cecil H. (Prof. Marine Engrg. &
 Naval Architecture), 491 Boylston
 Pease, C. H. & Co. (M. E.), 7 Water
 Pearson, Chas. A., 16 City Hall sq
 Perkins, Chas. C., 25 Old Court House
 Pierce, R. H., 35 Congress
 Pillsbury, F. C., 126 Mass. av
 Pratt, D. W., 62 Devonshire
 Puffer, Wm. L., Equitable bldg
 Purdy & Henderson, Paddock bldg
 Quimby, Ralph A. (Chief Engineer & Sur-
 veyor), 53 State
 Rice, David (M. E.), 87 Milk
 Rice, L. Fred., Old South bldg
 Rice, Ralph E., 101 Milk
 Richards, Robt. H. (Mining), Mass. Insti-
 tute of Technology
 Rideout, H. Orville (Mining), 45 Milk
 Roberts, Edward B., Old South bldg
 Robinson, W. S. (M. E.), 28 State
 Rogers, Edwin H., 8 Congress
 Rogers, Geo. Vincent (Consulting), 31 State
 Savage, J. E., 14 River, L. M.
 Schaffler, Jos. C., 73 Tremont
 Semple W. J. C. 23 Old Court House
 Sbalier, Robert A. (Consulting), 101 Tremont
 Shaw, Edw'd S. (Consulting M. E., Bridges,
 etc.), 12 Pearl
 Sheaff & Jaastad (Consulting M. E. & C. E.
 & Surveyors), 88 Broad
 Sherman, C. G. (Consulting), 88 Broad
 Sherman, C. W., 14 Beacon
 Sherman, W. F., 88 Broad
 Sherry, Frank E. (& Surveyor), 15 Court sq
 Sleeper, G. Edw., 11 Cedar av, J. P.
 Smith, Horace H., Ford bldg
 Smith, Sidney, 91 Maple W R
 Snow, F. A. (& Surveyor), 166 Devonshire
 Snow & Humphreys, 85 Water

Spaulding, Fred'k P., City Hall
 Sprague, Timothy W. (Consulting), 88 Broad
 Stackpole, Chas. F. (M. E.), 46 Cornhill
 Stearns, Chas. K. (M. E.), 88 Broad
 Stearns, Herbert R., 108 Cushing av., Dor.
 Steele, Herbert B. (Consulting M. E.), 12 Pearl
 Stevenson, James S. (M. E.), 563 Rutherford av
 Stone & Webster Engineering Corporation,
 Taylor, Lucian A., Tremont bldg 147 Milk
 *Tilden, Jas. A. (G. M.), Hersey Mfg. Co.,
 Tinkham, S. E., City Hall 314 W 2d
 Tucker, Edward A., 683 Atlantic av
 Turner, Edmund K., 53 State
 U. S. Geographical Survey, 6 Beacon
 Walworth, Arthur C. (Pres.), Walworth
 Construction & Supply Co., 100 Pearl
 Warren, Hy. J. (Mining), 50 Congress
 Waterhouse & Campbell (M. E.), 46 Cornhill
 Webber, Wm. O. (Consulting M. E.), 53 State
 Wenstrom, Olaf (Consulting Mining), 113 Devonshire
 Westinghouse, Church, Kerr & Co. (Consulting M. E.), 131 State
 Wetherbee, Geo. H., Ford bldg
 Whaley, W. B. Smith (M. E.), Tremont
 Wheeler, Wm., 14 Beacon bldg
 Whiting, Chas. W. (M. E.), 33 Broad
 Whitman & Howard (& Surveyor), 220 Devonshire
 Whitney, Chas. F., 15 Court sq
 Whitney, Frank O., 25 Old Court House
 Whittle, C. L. (Mining), 50 Congress
 Wilson, F. W. (Consulting), Board of Trade
 Wilson, Herbt. A., City Hall bldg
 Winslow, David H., Ford bldg
 Winslow, Fred'k I., City Hall
 Winther, Chas. A. G. (Consulting), 170 Summer
 Wood, C. H. W. Co. (& Surveyors), 2380 Washington
 Woodbridge, S. Homer, 420 Boylston
 Worcester, J. R., 79 Milk
BRAINTREE—White & Wetherbee, Long's blk
BROOKTON—Chapman, Benj. R. (Asst. City)
 Felton, Chas. R. (City), City Hall
 Hayward & Howard, 15 Green
 Norris, T. A. Machine Co. (M. E.)
 Rogers, C. C. (M. E.), 254 Montello
 *Washburn, Wm. S. Churchill & Washburn, 11 Crescent
BROOKLINE—Appleton, Chase B., Netherlands
 *Bates, E. C., 38 Upland rd
 Fitzgerald, Desmond
 French Alexis H., Town Hall
 *Hirt, L. J., Grove c. South
 Smart, Rich. A., 683 Washington
CAMBRIDGE—*Bird, W. W. (Treas., Broadway Iron Foundry)
 Bowker, E. F. (& Surveyor), 671 Mass. av
 *Brooks, Edwin C. (Supt., Water Works), City Hall
 Hastings, Louis M. (City), City Hall
 *Holles, Ira N. (Prof. of Engineering, Harvard Univ.)
 *Kendall, Jas. H., Edw. Kendall & Sons, 168 Main
 Leavitt, E. D. (M. E.), 317 Harvard
 Lombard, N. C. (M. E.), 40 State
 Mason, Wm. A. & Son (& Surveyors), 631 Mass. av
 *Mellen, E. D., 1590 Mass. av
 Norris, A. E. (M. E.), 29 Main
 Sanvens, Albert (Metallurgical)
 Whiting, C. W., 68 Kirkland
CANTON—Endicott, Frederick
CHELSEA—O'Brien, James A. (City)
CHELSEA—Carr, Jos. R. & Sons, 466 B'way
CHICOPEE FALLS—Cobb, Frank P. (City),
CONCORD—Wood, Albert E., 332 Grove
DANVERS—Bly, J. F.
DEDHAM—Smith, Nathaniel & Co.,
 Worthington, Erastus
DEERFIELD—Arms, Richard
DORCHESTER—Peters, E. D. (Mining), 38 Percival
FALL RIVER—Beattie, Roy H., 57 N Main
 Corbett, Edward M. (& Surveyor), 29 Bedford
 Dyer, David H. & Son (& M. E.), 7 Pocasset Bank bldg
 Hart, O. W. (M. E.), 151 Rock
 *Henry, Wm. T. (& M. E.), 30 Borden blk
 Marvell, Edw. I. (& Surveyor), 29 Bedford
 Wolstenholme & Buffington (& Surveyors), 58 Bedford
FITCHBURG—Bailey, Wm. K., 117 Main
 Raymond, George, 387 Main
FRAMINGHAM—Frost, C. J.
 Van Valkenburgh, J. J.
FRANKLIN—Taft, Stephen C. (& M. E.)
GARDNER—Lee, E. M.
GREENFIELD—Barton, L. G.
 Clapp & Abercrombie, Pond's blk

Day, C. J.
 Walcott, Charles T.
HAVERHILL—Evans, Robt. R. (City), City Hall
 Desmond, J. T., 210 Merrimac
 Littlefield, J. M., 69 Merrimac
 *Spofford, Nelson, 14 Water
HINGHAM—Foster, Walter B.
HOLYOKE—*Bellows, Lewis E. (Treas., Barlow Mfg. Co.)
 Ellsworth & Kirkpatrick (Consulting, Mfg. Plants, Water Supply, Sewage Disposal, Water Power, etc.), 18 Dwight
 *Green, Samuel M. (Mech. Engineer, American Thread Co.)
 Hills, Chas. H.
 Mann, T. W., 35 Hampden
 Tighe, Jas. L. (City), City Hall
HOPEDALE—*Day, Chas. M. (Gen'l Supt., Draper Co.)
HYDE PARK—*Fairhairn, W. U., 12 Green
 Hammett, E. A. W., 10 Neponset blk
 Norris, C. G., 45 Water
 Richardson, Geo. L.
 Taylor, Eugene H. (M. E. for John T. LANCASTER—Parker, Harold Robinson Co.)
LAWRENCE—Crosby, Wm. W. (M. E.) (Prin., Lowell Tech. School)
 Franklin, John, 316 Essex
 Hudson, Chester E., 246 Essex
 Littlefield, Chas. H., 234 Essex
 Slostrom & Franklin, Central bldg
LEOMINSTER—Gates, John W.
LOWELL—Bowers, George (City), City Hall
 Evans, Geo. E., 328 Wilder
 *Hildredth, Chas. L. (Supt., Lowell Mach. Shops)
 Hill, Nathaniel (& Surveyor), 228 Worthen
 Osgood, Oriu F., 228 Worthen
 Smith & Brooks (& Surveyors), 26 & 27 Hildredth bldg
 Snell, Ora M. (& Surveyor), 295 Central
LYNN—Eastman & Bradford (& Surveyor), 38 Exchange
 Gay, Charles W. (& Surveyor), 25 Exchange
 Harris, I. K. (& Surveyor), 59 Exchange
 Hemingway, A. C. Machine Co. (M. E.)
 Leland, Geo. I. (City), City Hall
 Rogers, H. E., 38 Exchange
 Winkley, E. E. & Co. (M. E.)
MALDEN—Mirick, Geo. L., 17 Pleasant
 Sargent, Albert, 425 Main
 *Tenny, Albert B. (Sec'y, Malden Elec. Co.)
MANCHESTER—Raymond, C. Allen
MARLBORO—Bigelow, Jas. F. (Consulting)
MEDFORD—Goodwin, Jas. O., 28 Main
MELROSE—Stevens, Walter C.
METHUEN—Howe, Jos. S.
MILLBURY—Garfield, Moses D.
MILTON—Churchill, W. W., Associates bldg
 Hall, Fred'k P.
 Sigourney, Harry H. W.
MONTAGUE—Clapp, Abercrombie, Turn's Falls
NATICK—*Gale, Horace B. (Consulting & Electrical)
NEW BEDFORD—Coggeshall, R. C. P. (Supt. Water Works)
 Drake, Albert B. (& Surveyor), 164 William
 Metcalf, Frank M. (& Surveyor), Merchants Bank bldg
 *Stetson, Geo. R. (Pres., New Bedford Gas & Edison Light Co.)
 Williams, Wm. F. (City), 76 Pleasant
NEWBURYPORT—Dame, Luther, 76 State
 Langdon, G. W., 6 Park
NEWTON—Blake, Percy M., 85 Wash'n N'ville
 Sawyer, Edw.
 Smilie, Edward S., 429 Centre
 Thompson, Sanford E., 63 Hartford, N. H.
 Wight, Willard W., N. C.
NORTH ADAMS—Emigh, Jno. H., Dowlin blk
 Gardner, Roswell (City)
 *Hunter, Jas. D. (Vice Pres., Hunter Machine Co.)
 Locke, F. B. (City)
 Smith, Frederick S., 57 Main
NORTHAMPTON—Davis, E. G. & E. E., 73
 Patterson, Malcolm D., 63 Centre Main
 Pomeroy, W. C. & Co. (M. E.)
 Thacher, L. M. (City), 59 Main
NORTH ATTLEBORO—Westcott, F. T.
NORWOOD—Smith, Geo. A.
PALMER—Ball, Edwin P.
 Brainard, Wm. H.
 Gager, Luther H.
PEPPERELL—Blood, Lorenzo P.
 Tarbell, Geo. G.
PITTSFIELD—Barnes & Spaulding, 28 West
 Jones, E. D. & Sons Co. (M. E.)
 Smith, Frederic S., 150 North
PLYMOUTH—Holmes, C. H., S Pond
 Sampson, Levi R.
 Sears, Walter H.
QUINCY—Branch, E. W., Adams bldg
 Flood, Hamilton (City)
 Lawton, Perry, 145 Hancock
 Whitman, Herbert T., Adams bldg
RANDOLPH—Clark, Dexter

READING—Bancroft, Jas. A.
ROCKLAND—Howland, Chas. W.
 Torrey, W. Archer
ROCKPORT—Pool, Calvin W.
 Wires, H. P.
SALEM—Bellows, Ephraim H. (M. E.), 39
 Cook, Henry, 1 Central
 Bickford, J. H. (M. E.), 209 Essex
 *Hunting, A. A. (Consulting), 26 Mason
 Metcalf & Ashton, 39 Church
 Nichols, Andrew, Court House
 Putnam & Ricker, 251 Essex
SAUGUS—Haucock, B. F.
 Hawkes, Levi G.
SOMERVILLE—Bailey, E. W. (City), City Hall
 *Boyer, C. W. & F. H. (M. E.), Hill bldg,
 Elliott, C. D., 59 Oxford Union sq
SOUTHBRIDGE—Moore, A. O.
 Whittaker, Jno. A.
SPENCER—Craig, Geo. A. & Son
SPRINGFIELD—Adams, Arthur A. (Supt of
 Allen, Chas. W., 98 Bay Streets)
 Allen, Geo. B., 98 Bay
 Ball, E. B. & P., 21 Wellesley
 Barker, J. K., 332 Main
 Durkee, White & Towne, 292 Main
 Falls, F. R. (M. E.), 68 Bridge
 Merrill, Geo. N. & Co. (Consulting), 292 Main
 Newton, Chester P. (M. E.), 627 Chestnut
 *Rider, Thos. J., 51 Taylor
 Slocum, Charles M. (City), 43 Bridge
 Sprague, Harry L. (M. E.), 310 Main
 Tinker, H. Kramer, 351 Main
SWAMPSCOTT—Eastman, F. H.
TAUNTON—Dean, Luther, Crocker bldg
 King, Geo. A. (City), City Hall
 Williams, Geo. L., 151 Welr
TOWNSEND—Stickney, A. F., W. T.
TUFTS COLLEGE—*Anthony, Gardener C. (Prof. Tech. Drawing)
UNBRIDGE—Aldrich, Ashabel F.
 Pratt, Daule
WAKEFIELD—Cutter, Frank P.
 Hawes, L. E.
WALPOLE—Grover, Edmund
 Robbins, Dana W.
WALTHAM—Cutting, Geo. W. (C. E.)
 Hobbs, Geo. E. (M. E.)
WARE—Eaton, Wm. C.
WATERTOWN—*Day, E. W. (M. M., Hod
 Webster—Clarke, Henry J. River Co.)
 Wakefield, B. A.
 Whittaker & Berger
WELLESLEY—Fuller, Frank L.
 Sawyer, Walter H.
 Taylor, Chas. N.
WESTFIELD—Parks, Oren E. (City), Town Hall
 Thayer, L. F. (& Surveyor), E. Silver
 Tinker, C. H.
WEST NEWBURY—Brown, Gilman W. (M. E.)
WILLIAMSTOWN—Walker, Alex.
WINCHENDON—*Whitney, Baxter D.
 *Whitney, Wm. M.
WINCHESTER—Fletcher, Elmer D. (Town)
 *Leland, S. D. (Supt., United Shoe Mach. Co.), McKay Dept, Factory
 Pratt, Daniel W.
WOBURN—Hartshorn, G. F.
 Parkhurst, E. B. (M. E.), 12 Buel pl
 Smith, J. W. (M. E.), 9 Union
WORCESTER—Alden, George I. (Consulting), West Boylston
 Allen, Chas. A. (Consulting), 44 Front
 *Barnum, Dana W. (Supt. Distribution, Worcester Gas Light Co.), 240 Main
 Browning, H. H., 405 Main
 *Burbank, L. S., 66 Bakon
 Buttrick & Pratt, 340 Main
 *Daniels, Fred. H. (Chief Engineer, American Steel & Wire Co.), 94 Grove
 Eddy, Harrison P. (Consulting)
 McClure, Fred'k A. (City), City Hall
 *Morgan, Chas. H. (Pres., Morgan Constr. Co. & Morgan Spring Co.), 21 Lincoln
 *Morgan, Paul B. (Sec'y, Morgan Cons. Co.), 21 Lincoln
 Parker, Chas. D. (M. E.), 22 Cypress
 Parsons, S. B. (Surveyor), 50 Apricot
 Rawson, L. W. (M. E.), Supt., Worcester Poly. Inst.
 *Reed, Edgar (Pres., Reed & Prince Mfg. Co.)
 *Rice, A. C. (Consulting & M. E.), 340 Main
 Rockwood, George I. (M. E.), 62 Summer
 Rugg, O. Willis (& Surveyor), 340 Main
 *Smith, Harold B. (Prof. Elec. Engineering, Worcester Poly. Inst.)
 Thompson, W. I., 340 Main
 Thompson & Gallagher (Consulting C. E. & M. E.), 339 Main
 Tolman, E. F. (M. E.), 18 Catharine
 Tribe, Geo. T., 339 Main
 *Washburn & Garfield Mfg. Co.
 Woods, Arthur W., 518 Main
 *Wyman, Horace (Vice Pres. & Gen'l Mgr., Crompton Loom Works), 126 Green

MICHIGAN.

ADRIAN—Blair, James
King, H. N.
Phillips, F. R. (Surveyor)
ALLEGAN—McDougall, Hugh
ALPENA—Comstock, D. S.
Kline, L. T. (M. E.)
McNeil, J. W.
ANN ARBOR—*Allen, Jno. R. (Asst. Prof.
Mech'l Eng'r, Univ. of Michigan)
*Cooley, M. E. (Prof. Mech'l Eng'r, Univ.
Groves, E. W. (City) of Mich.)
Post, Edw. C. (M. E.)
BAD AXE—McFadden, Duncan
Stendwick, Hy
BATTLE CREEK—Hunt, E. U. (City)
Ularhoff, A. L.
Whitney, H. K.
BAY CITY—Bloomshield, John (Consulting,
Waterworks, etc.), Shearer blk
Carney, Maurice P. (M. E.)
Garland, Harrison W. (M. E.)
Johnston, J. M. (Surveyor), Union blk
Kelly, J. A., 25th bet B'way & Marsac
Thompson, Henry C. (Consulting), 605 Ohio
Turner, Geo. E. (Co. Surveyor), City Hall
Wilcox, Geo. B. (Consulting M. E. & Patent
BELLAIKE—Jenkins, J. R. Attorney)
BENTON HARBOR—Downer, S. B. (M. E.)
BESSEMER—Baker, H.
Rupps, Geo.
BIG RAPIDS—Roben, D. B. & Co.
June, L. W.
BRONSON—Hamilton, Chas.
CADILLAC—Teed, A. J. & Son
Teed, D. E.
CALUMET—Scott, Donald M., Lanrium
CARO—Brumley, L. M.
CASSOPOLIS—Haines, J. S. (Co. Surveyor)
CHARLEVOIX—Nettleton, D. C.
Robinson, E. K.
CHARLOTTE—Newcomb, M. E.
CHEBOYGAN—Bowen, David
Rollo, G. V. D.
Ward, M. E.
COLDWATER—Hamilton, Chas.
CORUNNA—Joslin, E. F.
CRYSTAL FALLS—Baker, Henry
Eggleston, Seymour
DETROIT—American Car & Foundry Co. (M.
E.), 445 Ferry av
Barcroft, Fred'k T. (Consulting), Penobscot
bldg
Bartlet, O. E. (M. E.), Moffat bldg
*Baugh, S. A. (& Mining), 118 23d
Bothfeld, Chas. C. (Consulting), Penobscot
bldg
Brown, M. L. & Co., 821 Cham of Com
*Brush, Allen & Anderson (Consulting M.
E.), Penobscot bldg
Campan, Thos. & Son, Whitney bldg
Cole, H. B., Tolsona bldg
Conant, W. S. (Consulting M. E.), Bank
Chambers
Comstock-Haigh-Walker Co. (M. E.), Campau
bldg
Courtis, Wm. M. (Mining), 449 4th av
Detroit River Iron Works (M. E.), 655 At-
water
Detroit Testing Laboratory (Mining), Union
Trust bldg
Dow, Alex. (M. E.), (Gen'l Mgr., Edison, Ill.
Co.), 18 Washington av
Duffield, M. S. (Mining), Union Trust bldg
Ekstrom, Gunnar (M. E.), Stevens bldg
Gabriel Concrete Reinforcement Co., Pen-
obscot bldg
Graves, Geo. Wm. (M. E.), Cleland bldg
Jerome, Edwin, 61 Washington av
Jones, John (Mining), Majestic bldg
Kimball, Geo. H. (Consulting), Penobscot
King, W. C., Moffat bldg
*Kirby, Frank T. (Consulting M. E.), 1565
Russell
Lanc, Horace H. (M. E.), Penobscot bldg
Lloyd Construction Co. (Civil), 860 Green-
wood
Major Marine Gas Engine Co. (M. E.), 279
Jefferson av
Maxwell, David (Consulting), Penobscot
bldg
Middleditch, Benj. (M. E.), 103 Meldrum av
Mueller, G. A. (M. E.), Ferguson bldg
Rogers, C. T. & R. R. Co. (M. E.), 40
Chope pl
Russell, Herbert L. (C. E.) & Consulting,
Moffat bldg
Russell, W. O. (D. U. R'r), 590 Champlain
Stewart, Robt. Stuart (Consulting), Pen-
obscot bldg
Thomas, S. E. & Co. (Consulting), Buhl blk
Van Tuyl, Frank F. (M. E.), Union Trust
bldg
Von Schon, H. (Consulting), Wayne County
Savings Bank bldg

Walker, J. N. (Mining), 40 Larned, E
Well, Charles & Co. (Consulting), Union
Trust bldg
Westinghouse, Church, Kerr & Co. (Con-
sulting C. E. & M. E.), Penobscot bldg
Whitehead & Kales Iron Works (M. E.),
Beecher av & M. C. R. R.
Wormer, C. C. Machinery Co. (M. E. Con-
tracting for Complete Power Plants), 99
W. Woodbridge
Wray-Austin Machinery Co. (Inc.) (M. E.
Contracting for Complete Power Plants),
171 Woodbridge av. W.
ESCANABA—Brotherton Co.
Craig, John S.
Palmer, Cornelius
Royce, Eli P.
FENTON—McCalmon, John
Walker, M.
FRANKFORT—Pettit, J. A.
FREMONT—Anderson, D. G.
GAYLORD—Hoffman, D. M.
McCallummore, E. F.
GLADWIN—Doane, G. W.
GRAND HAVEN—Peck, E. H.
GRAND MARAIS—Roundtree, Jas.
GRAND RAPIDS—Anderson, L. W. (City), 12
Eureka av
Annable, Fitzgerald Engineering & Mfg. Co.,
Michigan Trust bldg
Bradfield Engineering Co. (M. E.), 2 Huron
Christ, E. H., Norris bldg
Hauser, Owen & Ames, 121 N Ottawa
Hawes, J. J., Jr., Michigan Trust bldg
Holmes, A. L., 574 Wealthy av
McVean & Northrup (Consulting), Honsman
bldg
Phoenix Sprinkling & Heating Co. (M. E.),
106 S Division
Rumsey, Jas. L., 374 Grandville av
Rusche, J. P., 4 Portsmouth ter
Skeels, Dor, 221 Houseman bldg
*Tower, Daniel W. (Pres., Grand Rapids
Brass Co.), 156 Court
GRAYLING—Blansbaw, Wm.
Newman, A. R.
GREENVILLE—Caukin, H. M.
HARBOR BEACH—Tucker, J. H.
HARBOR SPRINGS—Palmer, Marion (Survey-
or)
Swift, John (Surveyor)
HART—Hyde, E. M.
Wetmore, F. F.
HASTINGS—Bateman, A. N.
HILLSDALE—Mark, G. A.
HOLLAND—Huntley, Alfred (M. E.)
Price, James
HOUGHTON—*Burgan, A. L. (Supt., Isle Royal
Dengler, Theo. Copper Co.'s Stamp Mill)
Edwards, J. P.
Pryor, R. C. (Mining)
Sanders, C. W. (M. E.) (Chief Eng'r. Cop-
per Royal R. R.)
HOWELL—Bullock, M. W.
INGHAM—Well, Chas. L. (M. E.) (Prof. Mech'l
Eng., Mich Agr'l College)
IONIA—Crawford, D. C.
IRON MOUNTAIN—Armstrong, Herbert
IRONWOOD—Gould, J. H. (Mining)
ITHACA—Harrod, J. H.
Redman, E. W.
JACKSON—Brown, C. W. (M. E.), 114 W Trail
Cowham Engineering Co. (Consulting & Con-
tracting M. E. for Complete Power Plants
of All Kinds)
Fargo, Wm. G., 117 E Cortland
Frost, J. B., 184 W Main
Johnson, Hamilton (City)
KALAMAZOO—Albertson, D. J.
Piersen, Geo. S. (Consulting Water Sup-
ply, Sewerage & Sewage Disposal)
Rose, Albert E.
Strong, E.
Taft, Miner, O., 723 Staple av
KALKASKA—Nicholson, Louis (Co. Surveyor)
LAKE LINDEN—*Cogglin, Fred'k G. (Supt.,
Calumet & Hecla Stamp Mills)
L'ANSE—McKercher, James
LANSING—*Bement, Clarence E. (Supt., R.
Bement & Son)
LAURUM—Scott, D. M.
LUDINGTON—Mitchell, C. E.
Towns, R. O.
MANCIELONA—Jenkins, Joseph R.
MANISTEE—Baker, S. H.
Hubbell, J. J.
MARINE CITY—McKenzie, J. E.
MARLETTE—Arthur, C. W.
MARQUETTE—Cummings, Chas.
Cummings, G. P. & Son
Payne, H. J.
MARSHALL—Courtright, P. A. (City)
Joy, P. S.
MASON—Mech. E. R.
MENOMINEE—Hass, Albert (City)
MIDLAND—Gibbs, F. T.
Jenny, C. L.
Olmstead, Sherman

MOUNT CLEMENS—Fessenden, Cortez
Irwin, J. W.
Sackett, L. M.
MOUNT PLEASANT—Coburn, E. R.
MUSKEGON—Abbott, Jno. C. (Surveyor)
*Mason, H. I. (Supt., Shaw Elec. Crane Co.)
NEWAYGO—Jacques, Wm. M. (Co. Surveyor)
NEWBERRY—Metcalf, C. W.
NORWAY—Hallberg, G. A.
ONTONAGON—Oley, Chas. (Co. Surveyor)
Parker, A. F.
OWOSSO—Byerly, Chas. A. (M. E.)
Main, H. C.
PAW PAW—Mutchler, George
PENTWATER—Grant, Hobart A.
PETOSKEY—Benham, Geo. W. (M. E.)
Heyden, O. S.
Palmer, Marion
PONTIAC—Fisher, Wm. J.
Serrell, S. J.
Slater, F. A.
PORT HURON—Danger, Chas.
Kaumeier, Jno. C., Jr. (Consulting M. E.)
Paldi, Justin L.
*Weber, Otto L. E. (Mgr., Michigan Sulphite
Fibre Works)
RICHMOND—Burgess, O. S.
ROMEO—Fessenden, C. P.
SAGINAW—Fischer, J. G. (M. E.), 216 N
Franklin
Holmes, Chas., 501 S Park, E. S.
Lamar, H. H. (City), 109 Laper av
Leavenworth, I. H., 126 N Harrison
Roberts, R. W., 11 N Wash'n av
Sears, Wm. B. (Consulting), 614 N 7th
ST. CHARLES—Tefft, J. G.
ST. CLAIR—Poole, Mandeville
ST. IGNACE—McElroy, Michael
ST. JOHNS—Clemons, J. F.
Eddy, Chas.
ST. JOSEPH—Cleary, Will J.
SAULT SAINT MARIE—Brown, Fred. H.
Thompson, H. C. (City)
STANDISH—Carscallen, G. T.
STANTON—Caukin, H. M.
THREE RIVERS—*Howard, Geo. E., P. O.
Box 286
TRAVERSE CITY—Allyn, E. H. (Co. Surveyor)
Blomshield, Jno. (City)
TRENTON—*Church, Austin (Sec'y, Sibley
Quarry Co.)
WEST BAY CITY—Blomshield, J. H. (City),
Mosher blk
Thompson, H. C., Fisher blk, Midland
WEST BRANCH—Galbraith, J. W.
WILLIAMSTON—Mullett, J. H.
YPSILANTI—Allen, Jerome
Woodward, C. S.

MINNESOTA.

ADA—McKenzie, Alex.
AITKEN—Armstead & Kelly
ALBERT LEA—Barneck, Wm.
Fisk, F. H.
ALEXANDRIA—Abercrombie, John
AUSTIN—Clausen, M. N.
Nason, V. A.
BARNESVILLE—Butler, Nathan
Malers, N. N.
BEMIDJI—Stoner, M. D.
BENSON—Lawson, L. H.
BLUE EARTH—Remington, F. E.
BRainerd—Bartlett, J. F.
BRECKENRIDGE—Flynn, J. T.
BROWNS VALLEY—Rutledge, Edw.
BUFFALO—Blom, A. A.
CALEDONIA—Briggs, E. S.
CHASKA—Neustel, Conrad
CROOKSTON—Arnold, W. F.
Carroll, J. E.
Hamery, O. J.
Ralph, G. A.
DETROIT CITY—Morton, Wm. R.
DULUTH—Coleman, Edw. P. (M. E.)
Duluth Engineering Co. (Consulting), Pal-
radio bldg
Hovland, H. B. (Mining), Lonsdale bldg
*Hugo, T. W. (Consulting M. E.), Board of
Trade bldg
Lammers, T. L. (Mining), Manhattan bldg
McGilvray, T. F. (City), City Hall
Nichols, Raymond W., Manhattan bldg
Northwestern Engineering Co. (Consulting C.
E., M. E. & Mining), Lyceum bldg
Paddack, L. E. (Mining), 18 W 3d
Reed, D. A., 308 Providence bldg
Wessinger, Henry J. (M. E.), Oliver Iron
Mining Co.
EVELETH—Bailey, C. E.
FAIRMONT—Sawyer, G. E.
FARIBAULT—Reed, C. A.
FERGUS FALLS—Aalberg, Martin
Blegen, Hans
GLENCOE—Dieter, E. A.
Hankenson, J. J.
GLENWOOD—Kinney, K. J.
GRAND RAPIDS—Munich, Jas.
GRANITE FALLS—Norgaard, John

HASTINGS—Forbes, C. A.
Lowell, C. B.
HENDERSON—Mullen, S. F.
HIBBING—Carlson Exploration Co. (Mining)
Longyear, E. J. (Mining)
Silliman, A. P. (Mining)
HUTCHINSON—Dean, John
JACKSON—Buckle, Chas.
LE SUEUR CENTER—Sofberg, Edwd.
LITCHFIELD—Taylor, N. Y.
LONG PRAIRIE—Sargent, S. S.
MADISON—Loftfield, Berner
Clark, H. E.
MANKATO—Brooks, W. F.
Haynes, M. B. (Consulting)
Thompson, J. R. (City)
MARSHALL—Hawkins, W. A.
MILACA—Milton, E. V.
MINNEAPOLIS—Briggs, O. P. (M. E.), 500 Corn Exch

Buehler, Walter (Kettle River Quarries Co.)
Burch, E. P., Guaranty bldg
Dahl, P. M., the Phoenix
Egan, James E. (& Surveyor), Oneida blk
Elftman & Cull (Mining), Globe bldg
Fannlog, J. T. (Consulting), 602 Kasota bldg
Fanning, R. B., 602 Kasota bldg
Jager & Straus (Mechanical), Security Bank
Jessen, James (M. E.), 618 Corn Exchange
Lagaard, Theo., 601 Globe bldg
Longyear, E. J. (Mining), N. Y. Life bldg
Lovell, Walter D. (Consulting), 415 S. 8th
Nelson, Anton, 3113 19th av
Nutter, F. H., Jr. (& Surveyor), 710 Sykes
Shepley, C. R., 900 N 48th blk
Small, J. S. (Consulting), Andrus bldg
Sublette, Geo. W. 3315 Irving av
Turner, C. A. P., Phoenix bldg
Woodbury, F. D., 1126 Plymouth av

MONTEVIDEO—Moyer, L. R.
Moyer, S. L.

MOOREHEAD—Butler, Nathan
MORRIS—Wheaton, D. T.
NASHWAUK—Longyear, E. J.
NEW ULM—Boock, Geo.

Thompson, J. R. (City)
OLIVIA—Johnson, C. G.
ORTONVILLE—Chapman, R. H.
OWATONNA—Brown, F. C.

Dartt, H. S.
PINE CITY—Hamlin, W. H.
PIPE STONE—Pierce, J. W.
PRESTON—Case, H. H.
PRINCETON—Milton, E. V.
REDWOOD FALLS—Bigham, D. L.
RENVILLE—Johnson, C.
ROCHESTER—Armstrong, Chas. G.
Fraser, Wm. C.

RUSH CITY—White, J. E.
Chate, S. S.

SAUK CENTER—Frankenfield, A. (M. E.)
Leovaas, J. G. (M. E.)

ST. CLOUD—Morgan & Morgan (Consulting,
ST. JAMES—Nichols, E. E. Drainage, etc.)
ST. PAUL—Armstrong, J. H., 16 Court House
Brayton Engineering Co., N. Y. Life bldg
Clark, H. E., Nat'l G. A. Bank bldg
Clausen, Oscar (Consulting), Nat'l G. A.
Forbes, C. A., 503 Court blk Bank bldg
Fowble & Fritz (& Surveyors), 34 Union blk
Hoenck, Edw. (& Surveyor), Court blk
Irvine, J. B. (& Surveyor), Globe bldg
Loweth & Wolff (Consulting), 1st Nat'l Rk
bldg

Morton, G. R. (Consulting), National G. A.
Bank bldg

Rundlet, Leonard W. (Com. of Public
Works), 78 City Hall

Sewall, J. S., 958 Enstls
Simpson, G. T. (Consulting), Pioneer Press
bldg

Swenson, H. A. (& Surveyor), Endicott bldg
Tanner, K. & R. (& Surveyor), Manhattan bldg

ST. PETER—Daniels, H. W.
SHAKOPEE—Hilgers, Jno.
SOUTH ST. PAUL—Johnson, G. A. (City)

STILLWATER—Clarke, L. W.
Shepard, Myron

TWO HARBORS—Kempfer, Frank
VIRGINIA—Lamont, J. D. (Mining)

WARASHA—Beatty, Geo.
Cook, L. O.

WADENA—Bean, P. O.
WARREN—Wood, J. K.

WASECA—Smith, O. L.
WILMAR—Day, J. S.

WINDOM—Gove, G. W.
WINNERAGO CITY—Weir, G. A.

WINONA—Burns, E. C.
Coleman, G. P.

WORTHINGTON—Smith, M. S.

MISSISSIPPI.

OLARKSDALE—Dabney, T. G.
Head, W. L.
HATTIESBURG—Pntnam, G. H.

JACKSON—Dudley, Chas. (M. E.)
Kirkpatrick, W. G. (City)
MAGNOLIA—Kramer, Xavier A.
NATCHEZ—Daigarn, L. M. (City)
SCRANTON—Sturtevant, C. W.
VICKSBURG—McFarland, C. R.
Searles, J. M.
WEST POINT—Hall, Thos. V. (Consulting)
YAZOO CITY—Smith, Ezia

MISSOURI.

BETHANY—Werminger, J. J.
BEVIER—McCullom, Frederick (M. E.)
BOONVILLE—Ollison, Clarke
Ravenal, S. W.
Trent, W. W.
BROOKFIELD—Gilchrist, E. M.
BUTLER—Haggard, D. L.
Johnson, R. E. (County)
CARTHAGE—Grieb, Victor
Jackson, C. S.
COLUMBIA—Quinn, P. S.
Watts Engineering Co.
FAYETTE—Wisely, John D.
FULTON—Cave, John C.
GALLATIN—Lockbridge, Geo.
GLASGOW—De Witt, W. R.
Fox, S. Waters
GRANT CITY—Tandy, Benjamin
GREENFIELD—Long, A. M.
HIGGINSVILLE—Turman, S. F.
HUNTSVILLE—Baltbis, Frank S.
INDEPENDENCE—Jones, R. H.
Pendleton, H. H. (City).
JACKSON—Bean, L. M.
Brooks, J. F.

JEFFERSON CITY—Dewey, Chas. E.
Harding, E. F. C. (City)
JOPLIN—Church, L. O. (Consulting)
Dorman, Andrew F.
McKee, S. J. (City)
Miles, Orson E.
Nicholson, Frank (Consulting)
Plumb & Sansom (& Mining), McKinley
bldg

KAHOKA—Ingold, S. F.
KANSAS CITY—Abercromble, H. B. (Co. Sur-
veyor), 3641 Bell
Co. bldg

Barnett, R. C., K. C. Life bldg
Beard, Edw. J., 3928 McGee
Blodgett, A. M., Thayer bldg
Bontecou, Dan'l (Consulting), Postal Tele-
Brown, Edw. A., 3229 Paseo graph bldg
Burns, Clinton S. (Consulting), Dwight bldg
Burns & McDonnell (Municipal Work, etc.),
Scarritt bldg

Cholar, Byron E., 2840 Troost
Cudworth, Axtell & Co. (Consulting), K. O.
Life bldg

Donnelly, Jno., 401 Whittier pl
Drinkard, B., Dwight bldg
Elkins, J. T. (Mining), 2531 Troost
Farnsworth, E. I., 1328 B'way
Filley, Hart H., 2816 Campbell
Fox & Smith (Consulting), K. O. Life bldg
Fratt, F. W., Shukert bldg
Freeborn Eng. & Const. Co. (Consulting), 708
*Gambol, C. W., 604e 38th Heist bldg
Great Western Mfg. Co. (M. E.), 1223 Union
av

Gregg, W. S. (Consulting), Postal Tel. bldg
Gunter, E. T., 510 Brooklyn
Harmon, W. L., 23 W 31st
Hervey Machine Works, 408 Grand av
Hofmann, Ottokar (Metallurgical), 2110
Troost av

Hoover, J. W., 514 N. Y. Life bldg
Kansas City Eng. Co. (M. E.), Postal Tel
bldg

Kiersted, Wynkoop, 58 Water Works bldg
Knight, Thos. (Consulting), Gibraltar bldg
Koehler Bros. (& Surveyors), Essex bldg
Koehler, Oscar R. (Surveyor), 6 Court House
Lee, J. R., 515 Main

McCarty, R. J., 3820 Warwick houl
McDonnell, Robert E. (Consulting), Dwight
bldg

Malcomson, Jas. W. (Consulting), 1 Bryant
Mitchell, S. A., Bryant bldg
Moreland, J. H. (Mining), 14 W Mo. av
Morgan Machine & Eng. Co. (M. E.), 1422
Walnut

O'Flaherty, F. P., Ricksecker bldg
Orr, Robert B. Engineering Co., Shukert
bldg

Palmer, W. K. (Consulting M. E.), Dwight
bldg

Pennell, Arthur (M. E.), Heist bldg
Priestly & Edson (M. E.), K. C. Life bldg
Todd, F. H., 518 Colorado

Tuttle & Pike (& Surveyors), 600 Baird bldg
United States Engineering Co., 109 W 13th
Voestil, Theo. (M. E.), 614 Century bldg
Waddell & Harrington (Consulting), New
Nelson bldg

Waddell & Hedrick (Consulting), New Nel-
son bldg

Weeks, Kendall & Co. (Consulting), New
Nelson bldg

Wheeler, W. A., 418 Lawton pl
Willis, Blxby, N. Y. Life bldg
Winkler, E. T., 628 Locust

Wise, Henry A., 1204 Virginia
Wynkoop, Kiersted (C. E.), Water Works
bldg

KIRKSVILLE—Hall, Stephen (City)
KIRKWOOD—Baker, H. W.
LAMAR—Goodwin, C. D.

LEBANON—Willard, Timotby
LEXINGTON—Mulligan, John
Nichols, H. L. (M. E.)

MARSHFIELD—Smith, Alexander
MEXICO—Rodgers, C. D.
MOBERLY—Estell, H. V. (City)

MOUND CITY—Morris, W. M.
NEVADA—Wood, W. H.
NEW MADRID—Hunter, L. H.

OSCEOLA—Bowles, R. O.
PALMYRA—Scheetz, H. C.
PARIS—Grigsby, J. N.

PLATTSBURG—Everly, A. J.
POPLAR BLUFF—Bacon, Ernest (City)
Puckett & Raudabaugh

PRINCETON—Sheets, W. P.
ST. LOUIS—Abadie, E. H. Co. (Consulting
M. E.), Times bldg

Alford, H. Carroll (Mining), 407 N 8th
Allan, David, 4345 Arco av
Allison, Jas. E. (M. E.), 408 Olive

*Ball, P. De C., 912 N Main
Bergendahl, Gustav, 915 Olive
Bleek, Oscar W. & Son, 816 1-2 Chestnut

Bosley, Elijah M. (M. E.), 119 N 7th
Bowen, A. L., 107 N B'way
Boyce, W. D. Engineering Co. (Consulting
M. E.), Electric Railways & Power &
Lighting Plants, Chemical bldg

Boyle, John, Jr. (Mining), 719 Chestnut
Branch, Jos. G. (M. E.), 211 N 7th
Branch, Jos. G. (M. E.), Holland bldg

Brenneke & Fay, 122 N 7th
Brown, Baxter L., 408 Olive
Brown, J. B. (Mining), 3d & Cedar

Brussel, Hughes, 318 N 8th
*Bryan, W. H. (Consulting M. E.), Lin-
coln Trust bldg

Burchard, Samuel W., 6523 Odell
Burnet, Geo., 6623 Michigan av
Cameron, D. F. (Mining), 408 Olive

Chauvenet, R. & Bro. (Mining), 620 Chest-
nut
Caudle, Geo. W. (M. E.), 2220 McCausland
av

Colby, B. H. (Consulting), 319 N 4th
Davis, Lewis B., 211 N 7th
Dodds, J. T. (& Surveyor), 717½ Chestnut

Dodge Mfg. Co., (M. E.), 507 N Main
Elliott & Barry Engineering Co. (M. E.),
705 Olive

Fay, Wm. (Consulting M. E.), 721 Olive
Finlay, Edwin O., Chemical bldg
Flad, Edward (Consulting C. E. & M. E.),
Fullerton bldg

Ford, Owen (& M. E.), 319 N 4th
Furrell, Edw. W. (Consulting M. E.), 721
Olive

Garrells, W. L. (M. E.), 1707 S 3d
Gayler, Carl (Consulting), 105 N 7th
Gurley Eng. Co. (M. E.), 810 Olive

Haas, Cyrus A. & Co. (M. E.), 122 N 7th
Hammond, Chester (M. E.), 4031 Botanical
av

Haydock, Chas. L., 5975 Cote Brillante av
Hinckley, J. F., 906 Olive
Hinze, Fred'k J., 4223 Tyler av

Holman & Laird (Consulting), 721 Olive
Humbrey, Henry H. (Consulting C. E. &
M. E.), Chemical bldg

Itawaba Engineering Co., Chemical bldg
Joyce, John G., Jr., 722 Chestnut
Joyce Surveying Co. (City Surveyors), 620
Chestnut

Kimball, Clinton, 1710 S 11th
Klinealy, John H. (M. E.), 406 Market
Kinsey, E. R. & Bros., 821 Chestnut

Ledlie, Chas. H., 220 N 4th
Lichter & Jens (Consulting C. E. & M. E.),
Chemical bldg

Lucas & Co. (M. E. & Patents), 620 Chest-
nut

McCarthy, J. L. D. Architectural & En-
gineering Co., 816 Olive

McCulloch & Co. (M. E.), Security bldg
McKeen, Benj. (Vandalia R'y), Century bldg
McKinlay, H. T. (M. E.), 319 N 4th

McMath, R. E. Surveying Co. (Surveyors),
706 Chestnut

Mahler, L. F. Co. (M. E.), 721 Olive
Markmann, Philip J., 407 N 8th
Martin, L. Wynne (M. E.), 5545 Gates av

Monell, Jos. T. (Mining), 3454 Halliday av
Moore, P. N. (Mining), 408 Olive
Moore, Robert (Mining), 408 Olive

Moreno, Chas. A. (M. E.), 313 N 9th

Morey Eng. & Const. Co., Chemical bldg
Morse, Wallace (M. E.), 7121 Marle
O'Reilly, Andrew J. (M. E.), 2207 S Grand
Osterhorn, Rob't Architectural & Engineer-
ing Co. (Consulting M. E.), 1023 N 6th
Percival & Jones (Consulting M. E.), Bnrl-
Phillips, Hiram, 906 Olive ington bldg
Phillips, Richard H. (Consulting), 319 N
Pitzman's Co. of Surveyors & Engineers (&
Surveyors), 615 Chestnut
*Potter, Wm. B. (Mining), 1225 Spruce
Pritchett & Janni, 721 Olive
Raupp, Carl, 4975 Reber pl
Reber, Maxime, 421 Olive
Regel, F. H. (Mining), 833 N 3d
Richardson, William A., 207 N 8th
Rivers, Julian II. (M. E.), 407 N B'way
Rohwer, Henry, 207 N 8th
Ruby, Chas. F. (M. E.), 3230 Teunyson sq
Ruebel & Wells (Consulting M. E.), 721
Russell, S. B. (Consulting Water Works,
Pewer Plants, etc.), 417 Pine
Sawitzki, Julian V. (M. E.), 4814 Fountain
Sessinghaus, G. (Mining), 4336 Olive
Shields, Walter, 313 N 9th
Sobolewski, Edw. F., 5751 Etzel av
Spencer, E. J. (Consulting), 408 Olive
Taussig, Hubert P., 321 N 14th
Thacher, A. (Mining), 510 Pine
Thurman, Jno. S. (Consulting M. E.), 4436
Tyrrell, W. A. (Consulting), 620 Chestnut
Van Sant, R. L., 421 Olive
Vitebro, Lionel R., 318 N 8th
Vonder Lippe, Ernest, 721 Olive
Watts Engineering Co., 705 Olive
Wheeler, H. A. (Mining), 510 Pine
SAVANNAH—Hine, W. G.
SEDALIA—White & James (M. E.)
Yeater, Merritt
Zoll, C. H. (City)
SPRINGFIELD—Culler, G. W. (& Surveyor),
Stone, R. C. (M. E. Flour, Corn & Feed
Mills)
Eddy, R. S. (Consulting C. E. & M. E.),
Hollenback, M. M., 714 S Jefferson
Phillips, C. E., 535 State
Reed & Heckenlively, Theatre bldg
WARRENSBURG—Zoll, C. H.
WEST PLAINS—Summers, W. P.

MONTANA.

ANACONDA—Lord, H. S.
Tohin, Pat'k
BOULDER—Cralle, R. M.
BOZEMAN—Frost, Frank (Mining)
Robertson, J. M.
Thorpe, C. M.
BUTTE—Baker, T. T., 60 Silver Bow hlk
Baker & Wilson (Mining)
Bard, Darsey C. (Mining)
Bergstrom, O. (Mining)
Clark, H. S. (Mining)
Corry, Arthur (Mining)
Davis, J. E.
Frank, Albert
Glass, Jas. (Mining)
Harper & Macdonald (Mining)
Heywood, William A. (Metallurgist)
Higgins, Edwin (Mining)
Kent, Edmund (M. E.), P O Box 1087
Knight, A. B. (Mining)
Leggatt, Alexander (Mining)
Leggatt, J. B. (Mining)
Mitchell, F. S. (Mining)
Munroe, A. F.
Pennington & Barker (Mining), 36 E Granite
Rueger, J. A. (M. E.), 1204 N Main, Walk-
Schlertz, F. A. (Mining) erville
Stephens, A. H. (Electrical & M. E.), 816 W
Wilson, E. H. (Mining), Hennessy hldg
Winchell, H. V. (Mining)
DEER LODGE—Davis, H.
DILLON—Metlen, G. R.
FORT BENTON—Merrifield, A. W.
GREAT FALLS—Bird, G. W.
Lowery Engineering Co. (V. M. E.)
Whitten, B. D. (M. E.), Phelps hlk
*Woodbury, L. S. (Pres., Great Falls Iron
Works)
GOULD—Schlertz, F. A. (Mining)
HAMILTON—Kippen, M. D.
HELENA—Atwater Richard M., Jr. (Mining)
Brown, G. L. (Mining)
Brown, Wilton G. (Consulting)
Dickerson, Winchester (Mining)
Farmer, J., Court House
Helmick, C. W. (City & Mining), 29 Pitts-
burg hlk

Hovey, A. S. (Mining) 26 Merchants' hlk
Ropes, L. S. (Consulting Mining)
Sanders, Wilbur E. (Mining)
Sizer, F. L. (Consulting Mining)
Wickes, G. T. (Mining)
Word, William F. (Mining)
KALISPELL—Gibson, J. B.
Jaqueth, A. L.
LEWISTOWN—Hogeland, F. A.
Stafford, G. M.
LIVINGSTON—Crookes, S. H.
MILES CITY—Flynn, W. P.
Scheetz, Geo.
MISSOULA—Brandshaw, Jeremiah
Dorman, E. S. (Mining)
Finkelnburg, O. C.
Hughes, Eimer
Orr, Newton
PHILIPSBURG—Cralle, Edw. A.
Donyes, C. F.
Wilson, G. W.
RED LODGE—Taylor & Kimhall (Mining)

NEBRASKA.

BEATRICE—Parrish, A. S. (M. E.), P. O.
Box 33
FAIRFIELD—Prickett, C. M.
FALLS CITY—Crook, J. A.
FREMONT—Andrews, J. W.
GRAND ISLAND—Baldwin, C. A. (City)
HASTINGS—Heartwell, C. A. Co. (Surveyor)
KEARNEY—Allen, A. G. (M. E.)
Gillet, A. F. (M. E.)
Wilson, Jas.
LINCOLN—Bates, G. W., 3090 R
Bing, E. R., 1543 S. 22d
*Brooks, Morgan (Prof. Elec'l Engr'g, Univ.
of Michigan)
Dobson, Adna (State Engineer), 945 D
Hurtz, Theo. E., 1127 O
Nicholson, Hudson H. (Consulting)
*Richards, Chas. R. (Prof. Mech'l Engr'g,
Univ. of Nebraska)
Sargent, C. H., 629 N 16th
Walton, James P., 1630 Washington
NEBRASKA CITY—Munn, A. M., 112 N. 6th
OMAHA—Blickensderfer, Lewis (Consulting),
Gardiner, L. H. (Consulting), 1st Nat'l Bank
House J. E. (& Surveyor), 1st Nat'l Bank
Koenig, A. C., Bee hldg
McEathron, W. J. (& Surveyor), Paxton hlk
Rosewater, Andrew (Sewerage)
Shaw, Thomas (& Surveyor), Paxton Bldg
PLATTSMOUTH—Hilton, E. E.
STANTON—Beard, J. G. (City)
YORK—Coddling, A. B.

NEVADA.

GOLDFIELD—Baxter, H. (Mining)
Harris, Frederick S. (Mining)
Todd, Robert B. (Mining)
PIOCHE—Abbott, Jas. W. & Chas. W. (Min-
ing)
RENO—Arnett, W. D. C. Co. (Mining)
Boyle, Emmet D. (Consulting Mining),
Clay Peters bldg
Collins, Edgar (Mining)
TONOPAH—Jackson, D. H. (Mining)
McClelland, J. F. (Mining)

NEW HAMPSHIRE.

ALTON—*Clough, Wm. R., Rockell, Clough Co.
BERLIN—Bryant, E. S. (City)
CHARLESTON—*Webber, Sam'l (Hydr. & Dyn.
Engr.)
CONCORD—Howe, W. B. (City)
DOVER—*Estes, William M., Box 222
Grover, William A. (City)
Hayes, Charles W.
Jaynes, S. Foster
Jenkins, S. S.
GOLDFIELD—Todd, Roerth B. (Mining)
KEENE—*Humphrey, Jno. (Treas. & Gen'l
Mgr., Humphrey Mach. Co.)
Wadsworth, Samuel
LACONIA—Berry, Forrest G. (City)
Perley, Lewis S.
Sleeper, Chas. H.
LANCASTER—Sleeper, S. W. (M. E.)
Williams & Davis
LEBANON—Downs, Charles A.
LITTLETON—Gile, Ray T.
MANCHESTER—Allen, George H., 924 Elm
Dow, Perry H., Amoskeag Mfg. Co.
Dudley, Arthur (Civil)
Lord, Samuel J. (City), 896 Elm
*Manning, Chas. H. (Gen'l Supt., Amoskeag
Mfg. Co.)
Stevens, A. G. (M. E.), Manchester Mills
Walker, Chas. K., Court House Bldg
Young, John P., 1028 Hanover
NASHUA—Dean, A. W., 135 Main
Hathaway, E. O., 135 Main
Johnson, E. J., City Hall
PETERBORO—Jones, E. W.
Smith, E. M.

ROCHESTER—Ames, W. M.
TONOPAH—Kerr, Mark B. (Consulting)
WHITEFIELD—Carleton, Sprague

NEW JERSEY.

ARLINGTON—Horstman, F. W. & Co., 410 John
Logan, W. S., 115 Midland av.
ATLANTIC CITY—Ashmead & Hackney (&
Surveyors), Bartlett bldg
Craig, Wm. A. (& Surveyor), Bartlett bldg
Hackney, John (City)
Harris, H. G. & Co. (Surveyors)
Middleton, Frank (& Surveyor), Bartlett
Nelson, A. H. (& Surveyor), Bartlett bldg
Rightmire, E. D. (& Surveyor), Bartlett
Riley, Arthur W. (Surveyor & Consulting),
Somers, Eugene (& Surveyor), Bartlett bldg
Thompson, Raymond D. (& Surveyor),
BAYONNE—Broome, Jos. (M. E.), 38 W 35th
*Serrell, Wm. C., 624 Av. B.
Smith, Emmett (City) av E & 30th.
BELLEVILLE—*Williams, Franklin (Asst. Gen'l
Mgr., Eastwood Wire Mfg. Co.)
BEVERLY—Stokes, Charles
BLOOMFIELD—Olmsted, A. H., 24 Broad
*Power, Wm. M. (Power Mfg. Co.)
BOONTON—Godeffroy, R.
Van Dugen, Lewis.
BORDENTOWN—Hutchinson, John H.
BOUNDBROOK—*Ball, Frank H. (Vice Pres.
& Gen'l Mgr., Amer. Eng. Co.)
Herbert, Harry
BRIDGETON—Sharp, Walter M. (City)
*Smith, Oberlin (Pres., Ferracute Mach.
Co.)
BURLINGTON—Milnor, Thos. W. (M. E.)
Probasco, Seldon R.
BUTLER—Roome, William
CAMDEN—Farnham, Levi E. (City), City
Graves, Erwin (M. E.) (Sup't, Camden Iron
Works)
Haines & Sherman, Temple bldg
Kain, Edwin Co. (Consulting), 8 N 8th
Kauffman, F. F. (M. E.), 909 Pine
King, Arthur C. (Surveyor), 305 Market
Knowles, Wm. H., 111 N Delaware av
Lennon, James F., 361 Market
May, Edmund (Surveyor), 301 Market
Runge, W. C. & Co., 1200 B'way
Thomson, Earl (& Surveyor), 301 Market
CRANFORD—Vreeland, C.
DOVER—Jenkins, Geo. E.
Riggs, Albert R.
EAST ORANGE—Doty, A. L., 27 Wash'n
*Lape, Wm. E., 7 Girard av
Olcott, Geo. B., 252 Main
Orange Machine & Mfg. Co. (M. E.)
ELIZABETH—*Bailey, T. S., 326 Union av
Bauer, J. L., 215 Broad
Luster, Wm. H., Jr. (City), City Hall
Meyer, Oswald L. P. (& Surveyor), 208
Broad
*Miller, Lebeus B. (Supt., Singer Mfg. Co.)
Quien, Louis, 251 Elizabeth av
Tucker, W. B. (M. E.), 46 W Scott pl
ENGLEWOOD—Bistwhistle, H.
Cass, Willard
Serviss & Van Blarcon
FLEMINGTON—Blaise, Jno., Lock Box 332
HACKENSACK—Lozier, Lemuel (& Surveyor)
Pettigrew & Campbell
Van Buskirk, P. E.
Williams, A. W. (& Surveyor)
HACKETTSTOWN—Dellicker, A. H.
HARRISON—Logan, William S., 160 Midland av
HOBOKEN—*Bristol, W. H. (Ass't Prof. of
Math., Stevens Inst. Tech.)
Brush, Chas. B. & Co., 1 Newark
*Denton, Jas. E. (Prof. Expl. Mech. Ste-
vens Inst. Tech.)
*Forbes, W. D., 1300 Hudson
*Jacobus, D. S. (Prof. Expl. Mechs. & En-
gineering Physics), Stevens' Inst. Tech.
McCann, Thos. H., Nat'l Bank bldg
*Morton, Henry (Pres., Stevens' Inst. Tech.)
*Pryor, Fred'k L. (Inst. in Expt. Mechan-
ics, Stevens' Inst. Tech.)
*Riesenberg, Adam (Pros. Mech'l Draw-
ing, Stevens' Inst. Tech.)
*Stevens, E. A. (Pres., Hoboken Ferry Co.).
Tivy & Smith, 84 Washington 1 Newark
Whittemore, W. F., 1 Newark
JERSEY CITY—*Anderson, Jas. C., 107 Kear-
ney av
Armstrong, Jno., 175 Duncan av
Blan, Gustav, Jr., 45 Belmont av
Boulton, J. B. D. (M. E.), A ft of Essex
Brush, Chas. B. & Co., 1 Newark

Daly, Robt. H. (& Surveyor), 76 Montgomery
 *Dinkel, Geo., Jr. (Chief Engineer, American Sugar Refining Co.)
 Earle, F. H. (& Consulting & Surveyors), 15 Ex. pl
 Earle, Ralph D. Jr., 1 Exchange pl
 Flynn, W. S. (M. E.), 76 Hudson
GRISCOM-SPENCER CO. (M. E., Consulting & Contracting), Grand & Sussex. (See adv. index, end of book)
 Gubi, Emil (& Surveyor), 19 Charles
 Hamill, Alex., Jr., 426 Montgomery
 Harrison, E. W., 91 Summit av
 *Hayward, H. S. (Supt. M. P., United Railroads of N. J. Div., P. R. R.)
 Higgins, Chas. H., 1 Montgomery
 Hopper, Chas., 15 Exchange pl
 Inley, Edward W. (& Surveyor), 402 Central av
 Leahy, Jas. W., 1 Montgomery
 Payne, Jno. O. (& Surveyor), 15 Exchange
 Ross, P. Sanford, 277 Washington pl
 *Tompkins, Samuel D. (Pres., Smoothon Mfg. Co.), 533 Communipaw av
 Van Keuren, Chas. A. (Chief Engineer), City Hall
 Wortendyke, Nicolis D. (City Surveyor), 108 Bentley av
KEYPORT—Sproul, C. F. & H. S., E. Front & Broad
LAKEWOOD—Delatash, J. C. (M. E.), Ocean
 Fielder, Benj. H., Jr., Main av
MADISON—Brown, Edmund K.
MAGNOLIA—Albertson, J. J. (County)
MONTCLAIR—Crane, Frank W., 467 Bloomfield
 Owen, James, 467 Bloomfield av
MOORESTOWN—Borton, Uriah
MORRISTOWN—Brinley, Jno. R.
 Howell, Edward
 Mellick, John E.
 Pierson, Arthur (City)
 Pitney, Frederic V.
 Smith, Fred'k S., Babbitt bldg
MOUNT HOLLY—Lippincott, Joseph
NEW BRUNSWICK—Atkinson, Asher (City)
 Chandler & Duane, 438 Grove
 Serviss, David, County Collector's Office
 Tice & Rightmire, 92 Albany
NEWARK—Anderson, Geo. & Co. (M. E.), 420
 Baechlin, Ernest, 45 Clinton
 Borrie, & Kremer (& Surveyors), 788 Broad
 Burroughs, Chas. Co. (M. E.), 141 Commerce
 *Campbell, Geo. W. (& M. E.), 171 Broad
 Conlon, F. P. (& Surveyor), 757 Broad
 Currier, Cyrus & Sons (M. E.), 365 Market
 Emory, R. J. & Co. (Consulting), 249 High
 *Farland, Dudley (Mgr.), 207 Market
 Field, W. P. (Consulting), 763 Broad
 *Foster, John M. (Pres.), 107 Monroe
 Fraentzel & Richards (M. E. & Patent Attorneys), 800 Broad
 Francisco, Jno. H. (& Surveyor), 751 Broad
 Gardner, Geo. H. (& Surveyor), 784 Broad
 Goeller Iron Works (Contracting), 394
 Frelinghuysen av
 Halsey, Edmund R. (& Surveyor), 164
 Market
 Hedden, Iron Construction Co., 22 Clinton
 Hewes & Phillips Iron Works (Consulting
 M. E.), Orange c Ogden
 Hickok, H. Addison (& M. E.), 11 Clinton
 Hooper & Co., (& Surveyors), 11 Clinton
 Isbell-Porter Co. (M. E.), 11 Clinton
 *Jacobi, Albert W., 286 S 6th
 Kempf, Edw'd G., 164 Market
 Leblach Bros. (& Surveyors), 196 Market
 Lockwood, Chas. S. (M. E.), 496 Clinton
 av
 McMurray & Pules (& Surveyors), 22 Clinton
 Mueller, Carl (& Surveyor), 213 Chadwick
 av
 Munday, Jos. S. (M. E.), 22 Prospect
 Ogden, F. H. Co. (Consulting), 11 Clinton
 Owen, James (Consulting), 196 Market
 Parsons, W. E. (M. E.), 134 3d av
 Public Service Corporation (M. E.), 763
 Broad
 Rankin, Edw. S. (City), City Hall
 Ruesch, Henry J. Machine Co. (M. E.), 22
 Green
 Runyon & Carey (M. E.), 122 Market
 Seymour, D. C. (Contracting), 49 Lawrence
 Seymour, J. M., Jr. (Consulting), 51
 Lawrence
 Seymour & Whitlock (Consulting), 185-201
 N. J. R. R. av
 Streiff, Abraham (& Surveyor), 45 Clinton
 Taylor Fountain Engineering Co., 10 Commercial
 Taylor, Percy B. (Consulting M. E.), 800
 Broad
 Van Dyne, Harrison & Son (& Surveyors).
NEW LISBON—*White, Jos. J. 800 Broad
NEWTON—Kunkle, Andrew H. (M. E.)

ORANGE—Bulkley, Henry W. (M. E.), 128
 Crane, Fred T., 252 Main
 *Edison, Thos. A.
 *Herter, Emil (Chief Draughtsman, Edison
 Mead & Taylor, 242 Main Laboratory)
 Olcott, Geo. P., 252 Main
 Reimer, W. H. V., 249 Main
PASSAIC—Kriedge, E. L. (Mill Eng.)
 Peterson, Anton (City)
 Strange & Doolittle (Consulting)
 Wise & Watson (Consulting)
PATERSON—Bogert-Carlough Co. (Consulting),
 Peach c Straight
 *Brock, Wm. M. (Sup't, Public Service Corporation)
 Christie, Wm. W. (Consulting M. E.),
 Paterson Saving Institution bldg
 *Ferguson, John W. Co., United Bank bldg
 Ferguson, Wm. & Son, United Bank bldg
 Fonda, C. V. W. (Surveyor), 111 Hamilton
 Godefroy, R., 140 Market
 Harder, Harold J. (City Engineer), City Hall
 Henry, David Building Co., Smith c Main
 Van Winkle, Franklin, Colt bldg
 Whitmore, W. L., Court House
PERTH AMBOY—Hommann, Chas. C. (& Surveyor)
 Mason, S. J.
 Smith, Forrest L.
PHILLIPSBURG—Rowell, Robt.
 Smith, Jas. E.
PLAINFIELD—Dunham, F. A. (Consulting), 109
 Park av
 Gavett, Andrew J. (City), 152 Park av
 Hubbard, F. J. (Consulting), Babcock bldg
 Meeker, Robt. A. (Consulting), 209 Park av
 Vail, Ephraim M., 109 Park av
 Van Emburgh, H. C. (Consulting), 152 Park
 av
PRINCETON—*Wilson, Woodrow (Pres.,
 Princeton Univ.)
RED BANK—Cooper, George
 Osborn, Frank
 Throckmorton, J. W.
RIDGEWOOD—Harder, H. J.
RIVERTON—Parry, Howard
 Thatcher, Walter A.
ROSELLE—Greer, R. C.
RUTHERFORD—*Sloat, Geo. V.
SOMERVILLE—Doughty, Joshua
 Lane, J. R. S.
SOUTH ORANGE—Taylor, Lewis P.
SUMMIT—Mead & Taylor
TOWN OF UNION (P. O. Address, Weebawken)
 Earl, R., Jr. (Consulting), 154 Bergenline
 av
 Gaw, Robt. (Consulting), 520 Van Vorst pl
TRENTON—Albert, Reuben, 45 Bayard
 D'Unger, Ellwood (M. E.), Ribsam bldg
 Eppele, F. J. (County Engineer), 430 Perry
 Franz, Milton Co., 30 W State
 Haven, C. C., City Hall
 Haven, R. C. (Surveyor) 229 W State
 Ivens, Wm. H. Sons Co. (M. E.), Beakes av
 & Johnson Trolley Power House
 Moses, Frank D.
 Nelson, Alfred B., 512 Perry
 Nevius, Jno. C. (Surveyor), 138 Mercer
 *Reeves, Clifton (Pres., Reeves Mach. Co.)
 *Spillsbury, Edmund G. (Consulting), 216 W
 State
 Swan, A. Jr., Broad St. Bank bldg
 Watson, John & Sons Co. (M. E.), 11 Fair
 *Webber, Samuel S. (Mgr.), 204 W State
 Yard, G. B., 306 E State
VAILSBURG—McMurray, Eugene A. (Boro.)
WEEHAWKEN—Duer, Edw., Hauxhurst pk
WESTFIELD—Marsh, Jno. M. C.
WEST HOBOKEN—Gaw, Robt., 584 Spring
 Maulbeck, S., 495 West
WEST NEW YORK (P. O. Address, Taurus)—
 Gaw, Robt., Bergenline av., opp. Town
 Hall
WEST ORANGE—Baldwin, Merrick R., Valley
 rd c Lakeside av
 Faulks & Baldwin, Valley rd c Main
WOODBURY—Carter, William M.
 Ladd, Samuel H.

NEW MEXICO.

LAS VEGAS—Holt & Hart
 Rice, R. B.
SOCCORRO—Brown, Cony F. (Mining)

NEW YORK.

ALBANY—Allen, Leslie (& Surveyor), De Graaf
 Andrews, Horace, 125 Lancaster bldg
 *Blessing, Jas. H. (Sec'y, Albany Steam
 Trap Co.), 317 N Pearl
 Bond, Edw. A. (State Engineer), Capitol
 Devendorf, La Motte K., 68 State
 Melius, Walter, 59 City Hall
 O'Hara, Jno. J., 119 State
 Parsons, Henry C., Tweddle bldg
 Pruyn, Augustus, 230 State
 Roberts, Herschel, 112 State
 Stowell & Cunningham, 51 State
 Wooley, W. Thos. (Consulting), 66 Eagle

AMSTERDAM—Bennett, Chas. J., 90 Division
 Cleveland, H. B., 18 Storrie
 Crane, Francis E. (City)
 De Graff, H. W., 298 Guy Park av
 Moak, Saml., 251 Guy Park av
 Smealie Bros. (M. E.)
AUBURN—Austin, Dewitt F. (City), City Hall
BALLSTON SPA—Geer, H. M.
BATAVIA—Alexander, Chas. A. (M. E.)
 Cone, Hobart B.
 Holmes, J. W.
BINGHAMTON—Ackerman, R. McK., 160 State
 Baird, S. M., McNamara blk
 *Harris, J. F., 21 Goethe
 Monroe, S. E. (City), Municipal bldg
BROOKLYN—(See N. Y. City, Borough of
 Brooklyn)
BUFFALO—Adsit, John O. (M. E.), 245 North
 Alberger Co. (M. E.), 695 Ellicott sq
 Bardol, F. V. E. & Co., D. S. Morgan bldg
 Barr, Wm. H. (M. E.) (Gen'l Mgr., Lumen
 Bearing Co.), 1155 Sycamore
 Bassett, Geo. B. (Consulting, Civil & Hy-
 draulic), 346 Elmwood av
 Baxter, A. E. Eng. & Appraisal Co. (& M.
 E.), 945 Ellicott sq
 Bierbanm, Christopher H., Prudential bldg
 Birdsall, E. M. (Consulting M. E.), 116
 Hodge av
 *Boyd, Hy. A., Erie County Bank bldg
 Budd, T. A. (M. E.), 380 Franklin
 Buffalo Engineering Co. (M. E.), Erie Co.
 Bank bldg
 Bunge, Julius H. O. (M. E.), 207 W Utica
 Busch & Percival (& M. E.), Brisbane bldg
 Buttolph, H. T. (Asst. City), 2574 Main
 Calhoun, W. A. (Consulting M. E.), White
 bldg
 Cloudsley, Jas. B. (Consulting M. E.), Bu-
 reau of Water Supply
 Conkling, C. C. & Co. (Consulting), 798
 Ellicott sq
 Conlon, Arthur (Consulting M. E.), 11 N
 Ashland av
 Dieter, Louis F. (M. E.), 30 Kenefick av
 *Dollar, Wm. M., Erie County Bank bldg
 Durolithic Co. (Contracting), 16 Builders
 Ellsworth Bros., 50 W Eagle Ex. bldg
 Fairchild, Dennison, 937 Ellicott sq
 Fell, Chas. F., 139 De Witt
 Gall, Harry M. (M. E.), 281 Jersey
 Guthrie & Diehl, 581 Ellicott sq
 *Guthrie, Edw. B. (Chf. Eng., Grade Cross-
 ing Commission), Ellicott sq
 Hanavan, Eugene C., 398 Louisiana
 Howard Iron Works (M. E.), 287 Chicago
 Hunt, Robert W. & Co., 575 Ellicott sq
 Jackson, Lucian, C. (M. E.), 234 14th
 Knapp, Louis H., 230 Liuwood av
 Krause, Albert & Son (& Surveyors), Build-
 ers' Exchange
 Learmouth, Robert (Consulting M. E.), 200
 Lafayette av
 Osgood, J. L. (M. E.), 540 Massachusetts
 av
 Perkins, Frank C. (Consulting M. E.),
 Erie Co. Bank bldg
 Radley, Richard (M. E.), 930 Ellicott sq
 Ricker, Geo. A. (& M. E.), 702 Ellicott sq
 Roberts, Geo. T., D. S. Morgan bldg
 Rogers, Thos. J., 17 Whitney pl
 Siegesmund, Ernest, 110 19th
 Sikes, Geo. R., 1095 Ellicott sq
 Smith, Harry J. (M. E.), 43 Dodge
 Tresise, Francis J. & Co. (M. E.), D. S.
 Morgan bldg
 Wannenwetsch & Co. (M. E.), 563 William
 White, Wm. J., Mutual Life bldg
 *Wilke, Wm. (M. E.), 86 Norwood av
 Wing, Fred'k K., White bldg
 Witmer, J. F., 64 Ashland av
 Wright, Josiab P., Fidelity bldg
CAMBRIDGE—Watkins, Thos. L.
CARTHAGE—Brownell, Jas. P., Strickland
CATSKILL—Van Orden, Chas. H. bldg
CHAZY—Waters, Cyrus
COHOES—Van Auken, C. H. (City)
 Van Auken, D. H.
CORNING—Hoyt, S. T. (City)
CORTLAND—Allen, Henry C. (City)
DUNKIRK—Hequembourg & Avery, 305 Central
 Morrissey, J. P. (City), 191 R. B. av
 Newton, Geo. M., 229 Central av
ELMIRA—Bovier, Asa P., 308 Spalding
 Leach, Fred'k, 206 Robinson bldg
 Rawlins, J. E. (City), City Hall
FLUSHING—(See New York City, Borough of
 Queens)
GENEVA—Brennan, James W. (Ass't Engineer,
 Church, C. T. Board of Public Works)
GLEN COVE—Brown, Wm. H.
GLENS FALLS—Philo, Hiram, 331 Glen
 Slade, Geo. P. (City & Surveyor)
 West, H. M.
GLOVERSVILLE—Comstock, F. L., Parkhurst
GOSHEN—Jonas, M. & Son blk
 Levison, B. W.

Mills, V. K.
 Samuels, P. (Est.)
 GREENWICH—Haskins, Jos.
 GROTON—Landon, E. A.
 HAVERSTRAW—Allison, Calvin T.
 Wilson, Lavalette
 HEMPSTEAD—Titus, Edw. S., 96 Columbia
 HERKIMER—Wood, D. C., 67 Main
 HORNELLVILLE—Bates, Henry
 ILION—Ringwood, Jas. D.
 ISLIP—Smith, E. R.
 Whitman, S. S.
 ITHACA—Barr, Jno. H. (Prof. Mach. & Design, Sibley College, Cornell University)
 *Carpenter, Rolla C. (Prof. of Expt. Engineering, Sibley College, Cornell Univ.)
 Crandall, C. L., Prof., 100 Hector
 Crandall, K. P., 90 Hector
 *Durand, Wm. F. (Prof. Marine Engineering, Cornell University)
 *Hibbard, H. Wade (Prin. of Graduate School of Ry. Mech'l Engineering, Sibley College, Cornell University)
 *Reid, Jno. S. (Instr. in Mech'l Drawing & Design, Sibley College, Cornell Univ.)
 *Rites, Francis M., 64 W Buffalo
 *Ryan, Harris J. (Prof. Elec'l Engineering, Sibley College, Cornell University)
 JAMAICA—(See New York City, Borough of)
 JAMESTOWN—Bentley, O. Eugene (Queens)
 Burns, Edw. C.
 Jones, Clyde G. (City)
 JOHNSTOWN—Miller, Jas. W. (City)
 Miller, Wm. R., 26 Hoosick
 KEESEVILLE—Harkness, J. Warren
 KINGSTON—Bell, Geo. N. (City), City Hall
 Codwise, Edward B., 43 John
 Ellison, Geo., 20 Van Buren
 Hallinan, John F., 112 Downs
 Klingberg, Wilgott, 290 Fair
 LANSINGBURG—(See Troy)
 LAUREL HILL—(See New York City, Borough of Queens)
 LIBERTY—Cantine, N. S.
 LINOLEUMVILLE—(See New York City, Borough of Richmond)
 LITTLE FALLS—Babcock, Stephen
 Lansing, E. T. E. (City)
 LITTLE VALLEY—Ferguson, G. W. (County)
 LOCKPORT—Cook, Wm. B., 160 Locust
 Cornes, Chas. H., 15 Orchard
 Dox, Isaac, 84 Ontario
 Frehsee, Julius F. (City), Central blk
 Frehsee & Olmsted, 3 Central blk
 Gooding, Stephen F., 179 Church
 LONG ISLAND CITY—(See New York City, Borough of Queens)
 MALONE—Young, Gilbert
 MASSENA—Flaherty, P. B.
 MIDDLETOWN—Everson, C. J.
 Smith, Chas. H. (City)
 MOUNT VERNON—*Coleman, Geo. F., 118
 Hufnagel, B., 140 E 1st Archer av
 NEWBURGH—Garrison, Everett (City & Surveyor)
 NEW HARTFORD—Scripture, Arthur M.
 NEW ROCHELLE—Crosby, Horace
 De Luze & Emmet
 Haskell, C. S.
 Van Etten, L. E.
 Wilkes, J. K. (City)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Allen, Anstin E., Municipal bldg
 *Almond, T. R., 83 Washington
 Ambrose Machine Co. (M. E.), Eagle &
 Arci, J. B., 99 B'way Provost
 Asserson, Henry R., 529 5th
 Atlantic Basin Iron Works (M. E.), Summit & Imlay
 Ball & Jewell (M. E.), 28 Franklin
 Barker, Herbert J., 678 Mansfield pl
 Bartlett, F. L. (& Surveyor), 204 Montague
 Bartlett, H. L. (& Surveyor), 189 Montague
 Beck, Fritz (M. E.), 1415 59th
 Berry, Geo., 78 Morton
 Bischof, Geo. J., 471 Ocean Parkway
 Boomer, Geo. B., 373 Fulton
 Boyes, Wm. H., 22 Boernm pl
 Braun, W. F. (M. E.), 1102 DeKalb av
 Briggs, J. & Co. (M. E.), ft 24th
 Bristow, Walter M. (Consulting), 44 Court
 Byrne, A. T., 350 Fulton
 Byrne, James J. (Surveyor), 26 Court
 Cadmus, Geo. W., Municipal bldg
 Carey, Jas. F. (& Surveyor), 190 Montague
 Carter, James, 200 Joralemon
 Cassidy, John A., Municipal bldg
 Cicancimino & Olmstead (Contracting), 215
 Clausner, Otto, Municipal bldg Montague
 Cole, Hy. W. (M. E.), 453 3d
 Columbia Engineering Works (M. E.), Pioneer & Imlay

Conlan, Frank J., 215 Montague
 Crocker, Calvin I., 84 B'way
 Currie, J. B. & Son (M. E.), 72 Adams
 Debevoise, Wm. G. (& Surveyor), 1153
 Myrtle av
 Dennington, F. C. (Surveyor), 200 Montague
 Diack, Geo. A., 215 Montague
 Drake, Fred'k A., Municipal bldg
 Faribault, P. A., Borough Hall
 Folger, E. P., 377 Jefferson av
 Forbes, Arthur C., 4 Court sq
 Ford, Wm. G. (& Surveyor), 204 Montague
 Fort, E. J., 215 Montague
 Fulton, John (M. E.), Municipal bldg
 Gahagan, Walter H. (Contracting), 189
 Goodman, Jos., Municipal bldg Montague
 Gove, W. T. (M. E.), 85 Clinton
 Gray, John C., Municipal bldg
 Griffin, Wm. J. (Surveyor), 189 Montague
 Griffiths, John D., Municipal bldg
 Guthrie, Keith P., 215 Montague
 Hammond, Geo. T., 215 Montague
 Harrop, Wm., (Surveyor), 189 Montague
 Head, Henry C., 4 Court sq
 Hill, Jno. E., 215 Montague
 Hill, Wm. R. (C. E.), 242 6th av
 Horwedel, George J., Municipal bldg
 Hunt, Richard V., 215 Montague
 Jacobsen, Eldred E., Municipal bldg
 Jourdan, Jas. H., 265 Nevins
 Kelly, Olaf, 84 B'way
 Knap, Edgar D., 84 B'way
 Knepper, Alex. D. (Consulting), 53 Lexington av
 Krottnauen, A. E. (M. E.), 1095a Flatbush
 Kurth, A., 418 Classon av
 Laase, Wm. F., Municipal bldg
 Langthorn, Jacob S., 407 Hamilton av
 Leffingwell, Frank D., 200 Joralemon
 Lewis, Geo. G., 84 B'way
 Lichenstein & Howley, 373 Fulton
 Litchfield, Percy, 200 Joralemon
 Lobo, Carlos, Municipal bldg
 *Logan, F. J., 285 De Kalb av
 Ludlam, Austin (Surveyor), 189 Montague
 McColl, Ernest M., Municipal bldg
 McElroy, Samuel A. (& Surveyor), 26 Court
 McNeill, D. (M. E.), Pioneer & Imlay
 Magrath, Jas. W., 465 Marion
 Maloney, Jas. E. (& Surveyor), 1091 Atlantic av
 Markey, Wm. A., 215 Montague
 Martin, G. W., 215 Montague
 Martin, Kingsley, 179 Washington
 Meserole, B. R. & J. V. (Surveyors), 215
 Havemeyer
 Meserole, Walter M. (& Surveyor), 44 Court
 Meserole & Middleton (& Surveyors), 2511
 Atlantic av
 Mosman, Alonzo T., 186 Remsen
 Moyer, H. I. & Co. (Contracting), 375
 Fulton
 Murphy, Alex. D. (& Surveyor), 44 Court
 Murphy, Francis P., 66 Court
 Nostrand, Peter E. (& Surveyor), 190 Montague
 Olmsted, Hy., Jr., 215 Montague
 Palmer, Noyes F. (Surveyor), 150 Snedlker
 Pioneer Iron Works (M. E.), 155 Pioneer
 Pollock, C. D., Municipal bldg
 Randal, Frank L. & Co. (Contracting), 212
 Rutledge
 Reeve, Henry E. (M. E.), 459 Carroll
 Rice Bros. (Contracting), 23 Fulton
 Riedel, Jno C., 215 Montague
 Riley Machine Works (M. E.), 192 24th
 Schermhorh, Richard, Jr., 183 Prospect pl
 Schmidt, Herman H., Municipal bldg
 Schmitt, Jacob, Municipal bldg
 Skilton, George S., Municipal bldg
 Snyder, Antone E., 200 Joralemon
 Strachan, Robt. C., 342 Halsey
 Sullivan, Chas. P., Municipal bldg
 Swezey, Edwin C. (Surveyor), 259 52d
 Tenney, Willis R., Municipal bldg
 Thomas, Fredk (& Surveyor), 391 Lewis av
 Thompson, R. R., & Co. (Street Railway & Interurban Construction), 356 Fulton
 Tilley, J. Alfred, 84 B'way
 Tillson, Geo. W., Municipal bldg
 Tuttle, Arthur S., 559 5th
 Van Buren, Robt., Municipal bldg
 Van Buskirk, Clarence E., 44 Court
 Wagner, Bernard M., 1380 Union
 Ward, Chas. D., Municipal bldg
 Ward & Upright Engineering Co. (M. E.), 43 York
 Weiss, Louis T. (M. E.), 290 Taaffe pl
 White, E. Sherman (& Surveyor), Municipal
 White, Lewis B. (M. E.), 44 Court bldg
 Whitley, F. N. (& M. E.), 215 Fulton
 Williams, R. L. (& Surveyor), 189 Montague
 Winslow, Geo. E., 215 Montague
 Wulrz, E., 197 Havemeyer
 Wynkoop, Hubert S. (M. E. & Electrical), Municipal bldg

Boroughs of Manhattan & Bronx.

NEW YORK—Abbott, E. L. (Consulting), 71
 B'way
 Abitibi Claims Co. (Mining), 5 Nassau
 Adams, Wm. H. (Mining), 18 B'way
 Aims, Walton L., 45 B'way
 Albert & Co. (M. E.), 1923 B'way
 Alexander, Harry (Consulting M. E.), 20
 W 34th
 Alibee, E. E. (M. E.), 2 Rector
 Allen, J. R. (M. E.), 49 Wall
 Allen, W. W. (Consulting & Mining), 24
 Broad
 Alsing, J. R. Co. (M. E.), 136 Liberty
 American General Engineering Co. (Contracting C. E. & M. E.), 253 B'way
 American Institute of Mining Engineers (Mining), 29 W 39th
 American Society of Civil Engineers, 22th
 W 57th
 American Society of Mechanical Engineers, 29 W 39th
 Anderton, Geo. P. (& Consulting), 29 B'way
 Andrews Engineering Co. (Contracting), 120
 Liberty
 Augie, Geo. W. (Consulting), 35 Nassau
 Arden, H. B. (M. E.), 206 B'way
 Armstrong, Chas. G. (Consulting), 149
 B'way
 Arnold & Andrews (Consulting), 52 B'way
 Arnott, R. Fleming (Mechanical Consulting, Specialties, Mechanical, Structure & Railroad), 97 Liberty
 Atkins, C. Wilson, 2148 7th av
 Atwater, Linton & Atwater (Mining), 52
 Atkinson, Asher, 1 Madison av B'way
 Asserson, H. R., 59 Pearl
 Asserson & Asserson (Consulting), 59 Pearl
 Aus, Gunwald (Consulting), 11 E 24th
 Avram Leet Engineering Co. (Contracting & M. E.), 225 5th av
 Ayerigg, Wm. A., 102 Chambers
 Babcock, Wm. S. (Consulting), 17 Battery
 Bacon, C. G. (M. E.), 95 Liberty pl
 *Bacon, Earle C. (Consulting M. E.), 26
 Cortlandt
 Baggs, Nils O. (Mining), 60 Wall
 *Baker, Chas. W. (Mgr. Editor, Engineering), 220 B'way
 Baker, Geo. O. (M. E.), 100 B'way
 Baker, Wm. E. & Co. (Consulting, Power, Lighting), 27 William
 Baich, S. W. (M. E.), 67 Wall
 Balcon & Darrow (Contracting), 314 Madison av
 Baldwin Engineering Co. (Contracting), 209
 W 33d
 *Baldwin, Wm. J. (Consulting & M. E.), 61 Park row
 Banks, Daniel B., 27 William
 Barnes, Oliver W. (Consulting), 55 B'way
 Barney, Jno. M. (Consulting), 150 Nassau
 Barney, Newcomb C. (Mining), 39 B'way
 Barrath, Edw. (Consulting), 1123 B'way
 Barstow, W. S. & Co. (Consulting M. E. & Constructing, Electric Railway & Lighting Plants), 50 Pine
 Bartlett, Hayward & Co. (M. E.), 100 B'way
 Barton & Carpenter (Consulting), 32 B'way
 Barwick, Thos. Engineering Co. (Consulting, M. E.), 15 Park row
 Bates, Chas. J. (Consulting), 126 Liberty
 Bates, Putnam A. (Consulting Elec.), 42
 Bauer, Jacob L., 17 Park row B'way
 Baur, Wilhelm (Consulting), 42 B'way
 Bayne & McCarthy (Contracting), 1123
 B'way
 Beach, Robert J. Engineering Co., 32 B'way
 Beadle & Maxwell (M. E.), 86 Beaver
 Beekman Engineering Co. (Contracting), 99
 Nassau
 Beilman & Sanford (Consulting Engineers & Contractors), 149 B'way
 Bellows, Philip (Consulting), 299 B'way
 Benedict, Wm. deL. (Consulting, Mining & M. E.), 43 Cedar
 Benjamin, Chas. W. (M. E.), 206 B'way
 Benjamin, Geo. H. (Consulting), 45 B'way
 Benschel, John A. (Chief Eng. Dock Dept.), Pier A, N. R.
 Berger, Bernt (Consulting), 45 B'way
 Billow, Aaron (M. E.), 192 Bowery
 Billow Bros. (M. E.), 226 E 67th
 Birdsall, Geo. W. (Consulting), 21 Park
 row
 Birkmire, Wm. H. (Consulting), 396 B'way
 Blackwell, F. O. (Consulting), 49 Wall
 Blackwell, Josiah L. (Contracting), 27 William
 Blagden, Philips (M. E.), 208 5th av
 Biscoe, J. H. (M. E.), 17 John
 Bliss-Griffiths Construction Co. (Contracting), 225 5th av
 Block, Louis (Consulting), 45 E 42d

Blow, A. A. (Mining), 15 Broad
Boardmance, Arthur E. (Consulting, Civil & Hydraulic), 42 Pine
Bodfish, F. W. (Mining), 42 B'way
Boettiger, Philip (M. E.), 154 Nassau
Beyer, Otto G., 29 B'way
*Bogart, John (Consulting C. E. & M. E.),
Bogue, Virgil G., 15 William 115 B'way
Boiler & Hodge (Consulting, C. E. & M. E.),
1 Nassau
*Bolton, Reg. P. (Consulting C. E. & M. E.), 527 5th av
Boufger, Benj. (M. E.), 39 Cortlandt
*Bourne, Frank, 26 Cortlandt
Bouton, Geo. I. (M. E.), 11 B'way
Bowers, Charles C. (Consulting), 1 B'way
Bowles, T. W. Co. (Contracting), 314 Madison av
Bowman, Austin L. (Consulting), 165 B'way
Bowman, Geo. P. (Mining), 74 B'way
Bowman, Walker (Consulting), 39 Cortlandt
Boyer, Edwin S. (Contracting), 90 West
Boylan, J. Frank Co. (Consulting), 1779 B'way
Bradford, Horace S. (Mining), 35 B'way
Bradley, Chas. S. & Sons (Consulting), 41 Park row
Brady, F. W. (Consulting), 95 Liberty
Brainard, Owen, 225 5th
Bramwell, Geo. W. (Consulting), 335 B'way
Braune, Jno. S. (Consulting), 95 Liberty
Brennan, Daniel (M. E.), 138 Liberty
Briggs, Josiah A., 3d av. & 177th
Brinckerhoff, H. Waller (Consulting C. E. & M. E.), 45 B'way
Brociner, Alex. (Consulting), 18 E 42d
Brodie, Walter M. (Mining), 45 B'way
Bronder, G. A. (Gas Plant Construction, M. E.), 229 B'way
Brooke, B. H. & Co. (Contracting, Reinforced Concrete, Electric Railways, etc.), 50 Church
Brooks, Jas. E. Co. (Consulting), 45 B'way
Broome, Jos. (Consulting C. E. & M. E.), 123 Liberty
Brown, Chas. O. (Consulting), 628 Madison av
Brown, Herbert S. (Consulting), 319 E 23d
Brown, Wendell P., 277 B'way
Brownlee, James L. (Consulting), 29 B'way
Bruhaker, Samuel H. & Co. (Consulting), 45 B'way
Brumbaugh, L. H. (Contracting), 220 B'way
Bryson, Thos. B. (Contracting), 165 B'way
Buchholz, Carl W. (Consulting), 50 Church
Buckingham & Miller, 346 B'way
Buckley Engineering & Construction Co. (Contracting), 624 Madison av
Buhlmann, A. W. (M. E.), 487 B'way
Building & Sanitary Inspection Co. (Consulting), 25 Liberty
*Bulkley, Henry W. (M. E.), 141 B'way
Bull, Charles H., 15 Park Row
Burchard, Anson W. (Consulting & Mining), 44 Broad
Burdett, F. A. (Consulting), 29 W. 34th
Burger, Clarence L., 17 State
Burhorn, Edwin (Consulting & Contracting M. E., Electric Transmission & Steam Generation), 71 Wall
Burnett & Woolson (M. E.), 26 Cortlandt
Burr, Wm. H., 30 Church
Burr, Wm. H., 1 Nassau
Rush, E. Renshaw (Mining), 69 Wall
Bushnell, D. S. (M. E.), 26 B'way
Butler Bros. & Hoff Co., 1170 B'way
Butterworth, Frank, 19 Liberty
Byrne, Garrett J. (Surveyor), 217 W 125th
Caccavajo, Prun & Calhoun (Consulting), 1286 B'way
Caldwell, H. W. & Son Co. (M. E.), 50 Church
Campbell, James (Mining), 231 B'way
Campbell & Co. (M. E.), 300 E 64th
Campion, McClellan Co. (Contracting), 90 West
Cardow, Chas. (Contracting), 589 Greenwich
Carlile, Wm. E. (& M. E.), 140 William
Carpenter, Ira H. (Consulting), 52 William
Carse, David B. & Co., 12 B'way
Carter, Ralph B. Co. (Contracting), 50 Church
*Cary, Albert A. (Consulting), 95 Liberty
Cement Engineering & Construction Co. (Contracting), 225 5th av
Cervello, Michael G., 1 Madison
Chambers & Howe (Consulting), 15 William
Chandler, Irving A. (Consulting), 120 Liberty
Channing, J. Parke (Mining & M. E.), 11 B'way
Chapman, Paul (Consulting), 17 Park row

Charlton, Vanderhorst & Legare (Consulting), 45 B'way
Christie, Lindsay R. (M. E.), 39 Cortlandt
Church, John A. (Mining), 15 William
Church, Townsend V. (Consulting), 2 Rector
City Wastes Disposal Co. (Consulting), 156 5th av
Cladin, F. M. Engineering Co. (& Contracting), 39 Cortlandt
Clark, George H., 154 Nassau
Clark, Watson G. (Consulting), 1123 B'way
Clark & McMullen (Consulting), 20 Broad
Clarke, Henry J. Bowle (M. E.), 1 Madison av
Clase, Howard B. (Consulting), 1542 B'way
Clements, J. M. (Mining), 15 William
Cleverdon & Brice, 154 Nassau
Coade, Wm. H. (Contracting), 71 B'way
Cochrane, G. V. (Consulting), 2 W 125th
Coffin, T. A. (Consulting), 45 B'way
Colby, Albert Ladd (Consulting & Inspecting, Iron & Steel Metallurgist), 217 W. 110th
Cole, John A. & Edward S. (Consulting & M. E.), 29 B'way
Cole, H. J., 29 B'way
Collins, D. C. N. (Consulting), 29 B'way
Columbian Co. (Contracting), 39 Cortlandt
Composite Pile Construction Co. (Contracting), 17 Park av
Comstock, L. K. & Co. (& Contracting), 50 Church
Concrete-Steel Co. (Contracting), 29 B'way
Concrete-Steel Engineering Co. (Consulting), 17 Park row
Cone, John J. (Consulting), 90 West
Conkling, Jno. P., 229 B'way
Conley, Owen J. (Mining), 18 B'way
Connell, Lykes & Connell (Consulting), 90 West
Connon, Geo. W. (Consulting), 11 B'way
Consolidated Engineering Co. (Contracting), 156 5th av
Consolidated Engineering Co. of America, 43 Exchange pl
Consolidated Engineering & Construction Co. (Contracting), Madison av
Constant, Chas. L. (Mining), 61 Beekman
Constructing Engineers Co. (Contracting), 90 West
Converse, M. D. (M. E.), 141 B'way
Cook & Shine (M. E.), 72 E 114th
Cooke, C. H., 55 Broad
Cooper, Hugh L. (Consulting), 60 Wall
Cooper, Theodore (Consulting), 45 B'way
Cooper & Evans Co. (Contracting), 220 B'way
Cooperstock, Jno., 1477 Washington av
Cornell, J. N. H. & Co. (Contracting), 29 B'way
Corning, C. R. (Mining), 36 Wall
Corning, Fredk. G. (Consulting & Mining), 35 Wall
Cornwall, Plock & Saltzman (Consulting), 41 Union sq
Corthell, Elmer L. (Consulting), 1 Nassau
Corthell, Jas. C., 2311 Loring pl
Cortright, Harry (M. E.), 1431 B'way
Coverdale, W. H. & Co. (Consulting), 66 B'way
Crabb, Chas. L. Co. (M. E.), 115 Nassau
Crane, C. Austin, 505 E Tremont av
Crane, W. F. & Co. (Contracting), 100 William
Craven, MacDonough (Consulting), 220 B'way
Crawford, Robert (Contracting), 332 E 23d
Crehore, William W. (Consulting), 116 Nassau
Crowell, Foster (& Mining), 18 B'way
Culver, Alston G., 280 B'way
Culver & Steinacher (& Surveyors), 150 Nassau
Culyer, John Y., 116 Nassau
Cunningham, John (Surveyor), 243 B'way
Cunningham, Stanley, 11 E 24th
Cuntz, Herman F. (Consulting), 7 E 42d
Curtin-Ruggles Co. (Contracting), 39 Cortlandt
Curtis, Greeley S. (Consulting), 17 Battery pl
Custodis, Alphons Chlmney Cons. Co., 90 Nassau
Dana, R. T. (Consulting), 15 William
Dare, Ecu. J. A. (M. E.), 29 B'way
Darling, Oscar (Consulting & Contracting), 17 Park row
Darlington, Jno. H. (Consulting M. E.), 41 Pine
Daube, Oscar (Mining), 25 Broad
Davidson, T. W. G., 135 B'way
Davies, J. Vipond (Consulting), 30 Church
Davis, Lewis K. (Consulting), 437 5th av
Davis, Thos. C., 90 West
Dean, C. W. Co. (Contracting), 136 Liberty
De Bevoise, Chas. H., 149 B'way
Degnon Contracting Co. (Contracting), 60 Wall

Delaney-Roberts Co. (Contracting), 103 Park av
De L'Espee, L. H. (Mining), 1133 B'way
Delmar, Alex. (Mining), 54 W 23d
D'Oller Engineering Co. (M. E.), 116 Liberty
Devereux, James H. (Mining), 35 Wall
Devereux's, Walter B. Sons (Mining), 15 William
Dewey Engineering Co. (Contracting), 89 Centre
Diamond, Thos. L. (Consulting), 236 W 13th
Dickey, Wm. D. (M. E.), 1 Produce Exchange
Dickman R. N. (Mining), 43 Cedar
Dietz Engineering Co. (Contracting), 116 Nassau
Disbrow, Wm. H. B., 156 5th
Dixon, J. Alfred (M. E.), 2 Rector
*Dixon, Robt. M. (M. E.), 2 Rector
Dodge, G. M., 1 B'way
Doe & Ferguson (Inc.) (& Contracting), 32 Park pl
Donnelly, J. A. (Consulting), 132 Nassau
Donnelly, Wm. T. (Consulting M. E.), 135 B'way
Dooley, John, 60 Wall
Doty, A. Duane (Consulting), 35 Warren
Doty, Arthur L. G., 17 State
Douglas, J. W., 42 B'way
Dow, Alex. (Consulting), 104 W 42d
Dow & Smith (Consulting), 24 E 21st
Downs, Wm. (M. E.), 90 West
Drewsen Co. (M. E.), 5 Beekman
Dudley, Philemon H., 136 Water
Duenkel, C. L. (Consult C. E. & M. E.), 120 Liberty
Dugan, James, 32 Liberty
Duncan, Arthur M. (Surveyor), 35 W 32d
Duncan-Louis (Consulting), 56 Pine
Dunham, Herbert F. (Consulting), 220 B'way
Du Vivier, Ernest H. (Consulting), 14 Church
Dwight, Arthur S. (Mining), 25 Broad
Dwight, Jonathan, 134 W 71st
Dwyer, Jos. A. (Contracting), 70 5th av
*Earl, Chas. I. (Patents), 11 B'way
Eastwick Engineering Co. (Ltd.), Consulting C. E. & Designers of Cane & Beet Sugar Refineries, 42 B'way
Eaton, S. Edward Co. (M. E.), 662 Hudson
Eccles, John L. Co. (Contracting), 117 Mercer
Edwards, H. W., 74 B'way
Edwards, Jos. & Co. (M. E.), 416 Water
Ehrbar, Louis H., 26 Cortlandt
Eidlitz, Leopold, Jr., 123 B'way
Eidlitz & Ross, 1123 B'way
Eidred, Byron E. (M. E.), 208 5th av
Ellendt, J. G. Co. (Consulting & Contracting), 1 Madison av
Elliott, John L. (Mining), 71 B'way
Ellis, Evans & Co. (Contracting), 50 B'way
Ely, Jno., Jr., 23 Union sq.
Emerson Co. (Consulting), 30 Church
Emerson, H. D., 7 Pine
Empire Engineering Corp. (M. E.), 60 Wall
Empire State Engineering Co. (M. E.), 149 B'way
Engineering Supervision Co. (Consulting), 320 5th av
Engineering & Development Co. (Contracting), 71 B'way
Ennisson, W. Jay (M. E.), 138 Liberty
Enscoe, Geo. R. (Contracting), 21 Park row
Equitable Engineering Co. (Contracting), 2 Rector
Ernst, Arthur A. (Consulting), 437 5th av
Eurich, E. F. (Consulting & Mining), 15 William
Evans, Almiral & Co. (M. E.), 281 Water
Everett, Chas. J. (M. E.), 523 W 43d
Eynon-Evans Mfg. Co. (M. E.), 42 B'way
*Faber-Du-Faur & Donnelly (Consulting), 132 Nassau
Fahn & McKunkin (Consulting), 201 E 16th
Faiding, Frederic J. (Consulting), 55 B'way
Falk, Myron T., 60 Wall
Farish, John B. (Consulting), 40 Wall
Farish, W. H. & Co. (Mining), 10 Wall
Farley, John M. (Consulting), 1 Madison av
Farmer & Farmer, 123 Liberty
Farrar, Wm. M., 154 Nassau
Farrington, Harvey (Consulting), 45 B'way
Farrow, Edward S. (Consulting), 30 Church
Farwell, Elmer S. (Consulting), 309 B'way
Fearn, Percy L. (Mining), 36 Wall
Feldman, A. M. (Consulting C. E. & M. E.), 120 Liberty
Ficklen-Baker Construction Co. (Contracting), 1 Madison av
Field, Wilfred B. (Mining & M. E.), 15 Broad
Field, Wm. P. (C. E.), 36 E 23d
Fillingham, M. P. (Consulting), 114 Liberty
Finlay, J. R. (Mining), 2 Rector
Fisher, Francis D., 60 Wall
Fisher & Pagan (Contracting), 23 Platt
Fitz, Harold G., 59 W 44th
Fleming, Hy. S. (Consulting), 1 B'way

Floy, Hy. Co. (Consulting C. E. & M. E.), 220 B'way
 Fohr, Franz (Mining), 132 Nassau
 Forbes, P. R. (Mining), 15 Nassau
 *Ford, Bacon & Davis (Consulting, Electric Railway, Power & Lighting, etc.), 115 B'way
 Ford, Peter D. (Consulting), 17 Park row
 Ford, Wm. G., 32 B'way
 Ford's, Francis W. Sons (Surveyors), 8
 Forney, M. W., 1 Madison av James
 *Forstall, A. E. (Consulting), 58 William
 Fougner, Herman, 1 Madison av
 Foundation Co. (Contracting), 115 B'way
 *Fowler, Geo. L. (Consulting), 53 B'way
 Fowler, Geo. W. & Co. (Consulting), 30 Broad
 Fox, D. Alvin (Consulting), 11 B'way
 Foye, Andrew E. Co. (Contracting), 67 Exchange pl
 Frances Bros. & Jellet (Inc.) (Consulting), 156 5th av
 Franklin Engineering Co. (Consulting), 346 B'way
 Frick, Horace E. Co. (Contracting), 286 Greenwich
 Friedmann, Edw. N. (Consulting M. E.), 17 Battery pl
 Frith, A. J. (M. E.), 39 Cortlandt
 Frost, Geo. H. (Pres. Eng. News Pub. Co.), 220 B'way
 Fry, Alfred B. (M. E.) (Chief Engineer, U. S. Treasury Service), P. O. bldg
 Fuertes, Jas. H. (Consulting, Water Supply, Sewerage, Sewage Disposal, etc.), 140 Nassau
 Fuller Engineering Co. (Contracting), 111 B'way
 Fuller, Geo. W. (Consulting), 170 B'way
 Gardam, Wm. & Son (Inc.), 221 Fulton
GAS POWER CO. (Chemical, Gas & Combustion), 2 Rector. (See adv. index, end of book)
 Gates Engineering Co. (Contracting), 90 William
 Gendolph, Jos. H. (M. E.), 100 B'way
 General Cont. & Eng. Co. (Consulting), 50 Church
 General Engineering Co. (Consulting), 90 West
 Gerhardt, Wm. P. (Consulting), 33 Union sq. W.
 Gest, Guy M. (Contracting), 277 B'way
 *Gibbs, Geo. (Consulting), 8 Bridge
 Gildersleeve, Alger G., 217 W 125th
 Gillespie, G. Curtis (M. E.), 9 Warren
 Gillsple, T. A. Co. (Contracting), 90 West
 Glasser, Fred'k E. (& Surveyor), 70 Manhattan
 Goble, Frank N. (Contracting), 1 E 42d
 Goldmark, Chas. J. (Consulting M. E.), 103 Park av
 Goldschmidt, Otto E. (Consulting), 149 B'way
 Goldstone, Lawrence P. (Mining), 25 Broad
 Goss & Bryce (M. E.), 76 William
 Gotshall, Wm. C. (Consulting), 76 William
 Granger, A. D. Co. (Consulting), 90 West
 Gray, J. H. Co. (Consulting), 949 B'way
 Greenbaum, Leo. S. (M. E.), 151 E 71st
 Greenberg & Bartlett (Contracting), 1 Madison av
 Greene, Stanley K. (M. E.), 26 Cortlandt
 Greene & Greene (Consulting Docks, Foundation, Paving Plants, Concrete Machinery, etc.), 11 B'way
 Grey, Henry & Son (Consulting), 68 William
 Griffith, Chas. G. (Mining), 15 William
 Griggs, J. S., Jr. (Consulting M. E.), 3 S William
 Griggs & Holbrook (Contracting), 3 S William
 Grinn, Paul H. (Consulting), 7 Wall
GRISCOM-SPENCER CO. (M. E., Consulting & Contracting), 90 West. (See adv. index, end of book)
 Grossmann, Edmund (Consulting), 1 Madison av
 Grunsky, C. E. (Consulting), 45 B'way
 Guarantee Construction Co. (Contracting), 90 West
 Gueber, F. S. & Co., 45 B'way
 Guion, Barnard R. (& Surveyor), 1383 Washington av
 Gunn, Richards & Co. (Consulting), 43 Wall
 Gurtt-Manning Co. (Contracting), 90 West
 Gustin, R. Prosper, 60 Wall
 Hackett, Geo. E. (Consulting M. E.), 90 West
 *Hague, Charles A. (Consulting), 52 B'way
 Hague, J. D. (Mining), 18 Wall
 Halght, Horace D., 22 Platt
 Hall, F. P. & Co. (M. E.), 50 Church
 *Hall, Robert E. (Sec'y, New York Steam Fitting Co.), 147 Lafayette

Hall, Willis E. (Consulting), 30 Pine
 Hallam, F. W. (Contracting), 361 Avenue A
 Hallsted, Jas. C. (Consulting), 90 West
 Ham, Wm. Deane (Consulting), 45 W 34th
 Hamilton & Hansell (Mining), 29 B'way
 Hammond, George T. (Consulting), 60 Wall
 Hammond, Jno. F., 60 Wall
 Hammond, Jno. H. (Mining), 71 B'way
 Hammond & Sloane (Contracting), 60 Wall
 Hamshaw, Clarence M., 220 B'way
 Hamshaw, Fletcher T. (& M. E.), 220 B'way
 Hanchett, Geo. T. (Consulting), 237 Fulton
 Hanan, Rudolph (Consulting), 198 B'way
 Hancock, Jno. C., 977 Summit av
 Hansel, Chas. & Co. (Consulting), 43 Exchange
 Haney, Lewis T., 220 B'way change
 Hardinge, H. W. (Mining), 43 Exchange pl
 Hardy, Geo. F. (Consulting Paper Mill, etc.), 309 B'way
 Haring, Alex., 29 B'way
 Harrington, Samuel H. (M. E.), 120 Liberty
 Harrison, Burt S. (Consulting), 11 E 24th
 Harrison, Chas. L., 345 E 33d
 Harrison, Louis B. (Contracting), 21 Park row
 Hart, B. Franklin, Jr. & Co. (Contracting), 143 Liberty
 Hartlett, Geo. D. (Consulting), 78 Wall
 Hartmann, Andrew P. (& Surveyor), 61 William
 Havens, Wm. W., 150 B'way
 Hawthorne, Wymen G. (M. E.), 50 B'way
 Hayes, Chas. M. (Contracting), 220 B'way
 Hayes, Geo. S. (Consulting), 1123 B'way
 Hazen, Whipple (Consulting, Water Filtration & Sewage Disposal), 103 Park av
 Hazen, Wm. N., 225 5th
 Heineken, Hayne & McCarthy, 1123 B'way
 Henderson, George R. (M. E.), 20 W 34th
 Henderson, Henry (Consulting), 114 E 23d
 Hennbique Construction Co. (Inc.) (Contracting), 1170 B'way
 *Henning, Gustav C. (Consulting C. E. & M. E.), 150 Nassau
 Henrich, Carl (Consulting), 42 New
 Henry, P. W., 90 West
 Henshaw, F. V. (Consulting), 96 Wall
 Hering & Fuller (Consulting, Water Supply & Purification, Sewerage, Sewage Disposal, etc.), 170 B'way
 Herisse E. (Consulting), 243 B'way
 Herrick, Albert B. (Consulting), 120 Liberty
 Herschel, Clemens, 2 Wall
 Herz & Co., 203 Lafayette
 Hesse, G. E. (M. E.), 39 Cortlandt
 Hicks, Chas. E. (Consulting), 132 Nassau
 Hicks, James M. (M. E.), 19 Park pl
 Higgins, J. Wallace, 345 5th av
 Hildreth & Co. (Consulting C. E. & M. E.), 135 B'way
 *Hill, George (Consulting), 12 W 40th
 Hill, Geo. F. (Contracting), 201 E 33d
 Hill, G. E. (Consulting & Contracting), 156 5th av
 Hill, H. P. (Consulting), 30 Church
 Hill, Malcolm W. Co. (Contracting), 317 W 42d
 Hill, Nicholas L., Jr. (Consulting), 100 William
 Hill, Robt. T. (Mining), 25 Broad
 Hill & Irvine (M. E. Consulting), 25 Broad
 Hirsch, Patrick (Contracting), 25 Broad
 Hirt, Louis J. (Consulting M. E.), 25 Broad
 Hodge, Henry W., 1 Nassau
 Hoermann, Alfred E. (M. E.), 41 Park row
 Holbrook, J. B. (Consulting M. E.), 3 S William
 Hollerith, Geo. O. (Surveyor), 176 B'way
 Holmes, Fred. S. (M. E.), 2 Rector
 Holtzman, Stevens F., 11 E 24th
 Honolulu Iron Works Co. (Consulting), 11
 Hood, R. H. Co., 299 B'way
 Hooper, Geo. K. (Consulting), 11 B'way
 Hopkins, Edward L. (M. E.), 74 Cortlandt
 Hopper, John J., 215 W 125th
 Hornburger, Herman, 422 E 159th
 Horne, L. W. & Co. (Consulting), 150 Nassau
 Horsfall, Henry A. (Mining), 69 Wall
 Horsfall, Samuel B., 20 E 42d
 *Hough, David L. (Consulting), 32 E 33d
 Howard, J. W., 1 B'way
 Howes, Benj. A. (Contracting), 1193 B'way
 Howland-Kirk Co. (Consulting), 50 Church
 Hoxie, Geo. L., 50 Church
 Hudson, Clarence W. (Consulting), 45 B'way
 Hudson Companies, 43 W 27th
 Hudson Engineering Co. (Contracting), 90 West
 Hughes, C. H. & Co. (Consulting), 120 B'way
 *Humphreys & Glasgow (Consulting, Gas & Electric Light), 165 B'way
 *Hunt, Chas. W., 45 B'way
 Hunt, H. V. (Consulting), 39 Cortlandt

Hunt, Robt. W. & Co. (Consulting & Testing), 90 West
 Hurd & Haggin (M. E.), 316 Hudson
 Hnssa, Theo. F. (Consulting), 136 Liberty
 Hutchins, J. P. (Mining), 52 B'way
 Hutchinson, Cary T. (Consulting), 60 Wall
 Idell, Frank E. (Consulting), 50 Church
 Ihlseng, A. O. (Mining), 45 B'way
 Independent Engineering Co. (Consulting), 50 Church
 Industrial Engineering Co. (Contracting), Irvine, Fred. B., 25 Broad 95 Liberty
 Jack, Chas. P. M. (Consulting), 67 Cotton
 Jacobs, Chas. M., 30 Church Exchange
 Jacobs & Davies (Consulting), 85 Cedar
 Jarrett, Edwin S. (Consulting), 115 B'way
 Jenks, Asserson Construction Co. (Consulting), 50 Pearl
 Jenks, L. Howard (M. E.), 39 Cortlandt
 Johnson, David C. (M. E.), 22 William
 Johnson, F. Amos (Consulting), 143 Liberty
 Johnson, Sinclair J., 10 Wall
 Johnson, Wallace C. (M. E. & C. E.), 43 Exchange pl
 Johnston, Albert T., Jr., 42 B'way
 Judd, Edw. K. (Mining), 25 Pearl
 Junge, F. E. & Co. (Consulting), 150 Nassau
 Kaufman, A. G. (Consulting), 133 Reade
 Keith, Herbert C. (Consulting), 116 Nassau
 Keller, Herman A. (M. E.), 45 B'way
 Kellers, John F. (M. E.), 143 Maiden la
 Kellogg, M. W. & Co. (Contracting), 50 Church
 Kelly & Kelley (Contracting), 45 E 42d
 Kempton & McCoy (Mining & M. E.), 29 B'way
 Kennedy, Jos. E. (Mining), 10 Liberty
 Kennedy, J. J., 52 B'way
 Kennedy, Wm. P. (Consulting), 1765 B'way
 Kenny, Jno. Jr., 39 Cortlandt
 Kent, Ellis C. (M. E.), 120 Liberty
 *Kerr, W. C. 8 Bridge
 Kilde, Walter (Contracting), 90 West
 Kildney, A. H. (Mining), 10 Wall
 Kilpatrick, Jno. D., 90 West
 Kimball, Richard D. (Consulting), 437 5th
 Kimball & Colvin (Consulting), 45 W 34th
 King, Chas. D. (M. E.), 95 Liberty
 King, John W. (Consulting), 21 Park av
 Kinsman, Frank E. (Consulting), 37 Wall
 Kirkegaard, Geo. (M. E.), 514 Pearl
 Klein, Ed. A., 32 Liberty
 Klein, Otto H. (Consulting), 127 Franklin
 Klein, Wm. W., 3d av c E 177th
 Klepetko, Frank (Consulting & Mining), 90
 Klingberg, Willgott, 116 W 39th
 Knapp, Jno. A. (Consulting C. E. & Mining), 15 William
 Knowles, Edw. R. (Consulting C. E. & M. E.), 61 Park row
 Knox, Charles E. (Consulting), 76 William
 Knox, Douglass (& Surveyor), 686 Kingsbridge rd
 Knox & Allen (Mining), 82 Beaver
 Koenig, Adolph L. G. (M. E.), 1123 B'way
 Koyle C. Henschel (Consulting), 18 B'way
 Kraus, Otto (Consulting C. E. & M. E.), 143 Liberty
 Kuenzel, Chas. A. (M. E.), 299 B'way
 Kuhne, Eugene (Consulting), 147 4th av
 Kuichling, Emil, 52 B'way
 Kunhardt, W. B. (Mining), 100 B'way
 Ladd, E. W. (M. E.), 61 Park row
 Lamb, Richard, 136 Liberty
 Lancaster, James H. Engineering Co. (Consulting, Contracting, Mining & M. E.), 111 B'way
 Landan & Golden (M. E.), 1779 B'way
 Landing, Jaug. (Consulting), 21 Park row
 Langton, Jno. (Consulting), 99 John
 Lant, Frank P., 135 B'way
 Lapham, Jno. G. (Consulting), 136 Liberty
 Lasso, Valdemar F. (Consulting), 8 Bridge
 Latey & Slater (Consulting), 100 B'way
 Lawlor, Thos. F. (Consulting), 69 Wall
 Lawrence, Benj. B. (Mining), 60 Wall
 Lawyers' Engineering & Surveying Co., 135 B'way
 Layng, Hy. G. (Consulting), 18 B'way
 Leavitt, Chas. W., Jr., 220 B'way
 Ledoux & Co. (Consulting & Mining), 99 John
 Lee & Hewitt, 1123 B'way
 Lenher, Engineering Co. (Contracting), 149 B'way
 Leserman, Philip (M. E.), 1123 B'way
 Letson, T. H., 39 Cortlandt
 Levering & Garrigues Co. (Steel Work & Consulting), 552 W 23d
 Lewinson & Co. (Contracting), 128 W 42d
 Lewis, Nelson P., 277 B'way
 Lewkowicz, Anthony J. (M. E.), 229 B'way
 Linder, P. Gustav (Mining), 130 Lex. av
 Lindenthal, Gustav (Consulting), 45 Cedar
 Livermore, William White, 35 W 32d

Livingston, Johnston, Jr., & Co. (M. E.), 113 E 22d
 Livingston, Robt. R. (Consulting), 2 Rector
 Llera, Manuel (Consulting), 2 Rector
 Lloyd, Percival M. (M. E.), 107 Lexington av
 Loder, Cornelius & Associates, 154 Nassau
 Loewenstein, Max (M. E.), 169 E 129th
 Long, E. McL., 220 B'way
 Loomis, Horace, 21 Park row
 Loomis-Pettibone Co. (M. E.), 2 Rector
 Loretz & Son (Consulting C. E. & M. E.), 150 Nassau
 Low, Geo. E. (Consulting), 45 B'way
 Lowe, Wm. Bell. (Mining), 42 B'way
 Lozler, Robt. T. (Consulting), 115 B'way
 Lucius Engineering & Contracting Co. (Consulting), 38 Park row
 Lundle, John (Consulting M. E., Electric Railway, Power & Lighting, etc.), 52 B'way
 Luquer, T. T. P. (Consulting), 103 Park av
 Lynch, C. J. L. (Surveyor), 202 E 39th
 Lydon, Lamar (Consulting), 56 Pine
 Lyne, Lewis F. (M. E.), 39 Cortlandt
 McAdam, John V. (M. E.), 523 W 45th
 McClave, Rimmer Co. (Contracting), 90 West
 McClintock-Marshall Construction Co. (Contracting), 17 Park pl
 McCord, James B., 29 B'way
 McCoy, Percy B. (Mining & M. E.), 29 B'way
 McCulloch, Robt. A., 51 Chambers
 McDowell, E. K. (Consulting), 132 Nassau
 McElwce, Alex. (Consulting), 50 B'way
 McGonagle, Arthur Co. (Contracting), 136 Liberty
 McGuire, Jas. C. & Co. (Contracting & Consulting C. E.), 50 Church
 McKay, John E., 21 Park row
 McKenna, Chas. F. (Consulting), 50 Church
 McKim, Alex. Rice (Consulting Structural), 116 E 28th
 McLean, Embury (Consulting C. E. & M. E.), 50 Church
 McNutrie-Guiler Co. (Consulting), 82 Beaver
 McNulty, Geo. W., 299 B'way
 McTighe, Leo. A. (M. E.), 11 B'way
 MacDonald, Bernard (Mining), 35 Wall
 MacDonald, Chas., 5 Nassau
 MacDonald, W. S. (Consulting), 5 Nassau
 MacGregor, R. A., 505 E Tremont av
 MacSorley Co. (M. E.), 44 Manhattan
 Mack, Franklin D. (Consulting), 346 B'way
 Mackay, Alfred (Consulting), 95 Liberty
 Mackenzie, Quarrier & Ferguson (Inc.) (M. E.), 114 Liberty
 MacNelle, Perry R. (Consulting), 2 E 33d
 Madden, Hugh F. (M. E.), 200 W 57th
 Madison Erection Co., 281 4th av
 Magovern, Edw. E. (Consulting), 299 B'way
 Mailloux, C. O. (Consulting), 76 William
 Malu, Wm., 100 B'way
 Maloney, James H. (& Surveyor), 527 E 187th
 Malsin, Albert (M. E.), 99 Nassau
 Manhattan Engineering Co. (M. E.), 97 Water
 Mann & McNelle (Consulting), 2 E 33d
 Mapes, Chas. A. (Surveyor), 2804 3d av
 Marcus, Samuel W. (Mining), 15 Broad
 Marks, Wm. D. (Consulting), 21 Park row
 Martin, Frank S., 52 Beaver
 Marvin & Casler Co. (M. E.), 703, Times bldg
 *Mason, D. A. (M. E.), 502 Produce Ex
 Mason, Volney W., Jr. (Consulting C. E. & M. E.), 189 Franklin
 Masters, Henry H. (Consulting), 15 Whitehall
 Mathewson, Ernest T. (Consulting), 90 West
 Matthews, Fred'k E. (Consulting), 150 Nassau
 Maxwell & Howe (M. E.), 90 West
 May, Alfred W. (M. E.), 141 B'way
 Mayer, Jos. (Consulting), 1 B'way
 Mayers, J. Alex. (Contracting), 56 Pine
 Maynard, Geo. W. (Consulting & Mining), 20 Nassau
 Mazuel, Edmund G. F. R. du (Consulting), 43 Exchange pl
 Meads, Chas. & Co., 299 B'way
 *Meier, E. D., 11 B'way
 Meier, F. R. (Consulting), 1 B'way
 Meier, Konrad (Consulting), 27 E 22d
 Melkelman & Dinsmore (Consulting), 25 Broad
 Merriman, Mansfield (Consulting), 45 B'way
 Merritt, Lucius R. (M. E.), 26 Cortlandt
 Mershon, Ralph (Consulting), 60 Wall
 Mesa, Antonio E., 33 W 118th
 Mesa, Henry (Surveyor), 505 W 149th

Meyer, Chas. A. & Son (& Surveyors), 194 Bower
 Meyer, Henry C., Jr. (Consulting), 1 Madison av
 Meyers, Chas. B. (Consulting), 1 Union sq W
 Mickley & Smith (M. E.), 19 Thames
 Miller, Arthur B. (M. E.), 90 West
 Miller, Frank, 143 Liberty
 Miller, H. C. & Co., 1 Madison av
 Miller, Rudolph P. (Consulting), 527 5th av
 Miller, Spencer, 96 Liberty
 Miller-Collins Co. (Consulting), 29 B'way
 Milliken Bros. (Inc.), 11 B'way
 Milliken, Geo. F. (Consulting), 50 Church
 Minard, Fred'k H. (Mining), 111 B'way
 Mitchell, Chas. C. (Contracting), 1 Madison av
 Mitchell, N. J. Co. (Consulting), 7 Pine
 Mitchell, Wm. E. (Mining), 25 Broad
 Moffat, Alex., 27 William
 Monad Engineering Co. (M. E.), 147 Cedar
 Monks, Jno. & Sons (Contracting), 82 Beaver
 Monolithic Engineering Co. (Contracting), 1 Madison av
 Montauk Engineering Co. (Contracting), 50 South
 *Moore, Chas. A. (Manning, Maxwell & Moore), 85 Liberty
 Moore, Chas. C. & Co. (Consulting), 50 Church
 Moore, Chas. H., 50 Church
 Moore, Ernest C., 154 Nassau
 Moore, John D. (M. E.), 45 Liberty
 Moore, J. R. (Consulting), 156 5th av
 Moore, Thos. L., 505 E Tremont av
 Moorees, Herman P. (Consulting), 120 Liberty
 Morey, Wm., Jr., 788 B'way
 Moritz, Albert (Consulting), 35 B'way
 Morrison, Hy. P. (& Surveyor), 17 Park row
 Morrison, Marsden, 18 B'way
 Morrow, John T. (Consulting), 27 Pine
 Mortensen, Waldemar H., 401 W 24th
 Moscovitz & McKirdy (Consulting), 18 B'way
 Moses, P. R. (Consulting), 45 W 34th
 Moss, Robt. E. (Consulting), 12 Elm
 Motley, W. G. & Co. (Mining), 32 B'way
 Moulton Mace (Consulting Bridges & Steel Structures, etc.), 150 Nassau
 Mueser, Wm. (Consulting), 17 Park row
 Municipal Engineering & Contracting Co. (Consulting), 90 West
 Muralt & Co., 114 Liberty
 Murgatroyd, Hy. E. (Surveyor), 1901 Bathgate av
 *Murray, Thos. E. (Gen'l Mgr., New York Electric Light, Heat & Power Co.), 55 Duane
 Muschel, Wm. (Surveyor), 78 E 4th
 Mutual Engineering Co. (C. E. & M. E.), 101 Beekman
 Myers, Chas. H. (Consulting), 45 B'way
 Myers, David M. (Consulting), 17 Park row
 Namur, August (Consulting), 262 W 129th
 Nasmyth, Chas. J. (Consulting), 111 B'way
 Nassau Engineering Co. (Contracting), 44 Pine
 Nau, Jno. B. (Consulting), 1 B'way
 Newell, Frank L. (Consulting), 1 Madison av
 Newton, Chas. A. (Mining), 54 Warren
 Newton, Earl R. (M. E.), 2 Rector
 New Britain Machine Co. (M. E.), 135 B'way
 New York Engineering Agency, 35 Warren
 New York Engineering Co. (Contracting), 2 Rector
 New York Sewage Disposal Co. (C. E.), 1 Madison av
 New York State Construction Co. (Contract), 78 Broad
 Nichols, Chas. H. (Consulting), 527 5th av
 Nichols, H. P., 277 B'way
 Nilson, Lars G. (Consulting), 15 Wall
 Noble, Alfred, 315 5th av
 Norris, R. V. (Consulting), 99 John
 Nostrand, P. E. (& Surveyor), 149 B'way
 Nugent, Jno. W. (M. E.), 70 W 96th
 O'Connor, McIntire Co. (Contracting), 314 Madison av
 Olcott & Corning (Consulting & Mining), 36 Wall
 Olmstead, G. S., 97 Nassau
 Olney, Geo. R., 312 W 99th
 Olsen, Charles K. (M. E.), 550 W 29th
 Olson, John E. (M. E.), 39 W 25th
 Opdycke, Hy. G., 30 Church
 Opdyke, Stacy B., Jr. (Contracting), 1931 B'way
 Ordman, Max D. (Consulting C. E. & M. E.), 280 B'way
 O'Rourke Engineering Construction Co. (Contracting), 345 5th av
 O'Rourke, John F., 345 5th av
 Ortiz, Jose M. (Mining), 60 Wall

Osborn Engineering Co., 45 B'way
 Osborne Engineering Mfg. Co. (M. E.), 141 B'way
 Palmedo, L. P. (M. E.), 280 B'way
 Parker, Asa W., 45 B'way
 Parker Bros. (Consulting), 143 Liberty
 Parmelee, Chas. L. (Consulting), 90 West
 Parmley, Walter C. (Consulting), 78 5th
 Parson Mfg. Co. (M. E.), 299 B'way av
 Parsons, Bert H. (Consulting), 60 Wall
 *Parsons, H. de B. (Consulting), 22 William
 Parsons, Wm. B. (Consulting), 60 Wall
 Pasquini, Attilio, 1123 B'way
 Patent Development & Mechanical Draughting Co. (M. E.), 99 Nassau
 Pattison Bros. (Consulting), 949 B'way
 Bayne, Clarence Q. (Mining), 99 John
 Pearce, R. T. (M. E.), 95 Liberty
 Pearce, Arthur L. (Mining), 15 Broad
 Pearce, Kingston & Browne (Mining & M. E.), Mills bldg
 *Pearson, F. S. (Consulting), 25 Broad
 Pearson, James J. (Consulting), 40 Wall
 Pelton Water Wheel Co. (M. E.), 90 West
 Perin, Chas. P. (Consulting & Mining), 2 Rector
 Perrine, Fred. A. C. (Consulting), 60 Wall
 Perrine, Geo., 22 William
 Perry, O. C. (Mining), 71 B'way
 Phillips, Ellis L. & Co. (Consulting), 45 B'way
 Phillips & Worthington (Contracting), 136 Liberty
 Philpps, Edward H. (Consulting), 220 B'way
 Platt, Paul J. (Consulting & Contracting), 156 5th av
 Pierson & Goodrich (Consulting), 281 4th av
 Pigott, Stephen J. (M. E.), 2 Rector
 Pilkington, Herbert M. (M. E.), 5 Cedar
 Pittman, Reinhard W. (M. E.), 147 Lafayette
 Pittsburg Testing Laboratory (Mining), 15 William
 Place, Jas. F. (Consulting), 257 B'way
 *Platt, John (Consulting), 97 Cedar
 Plume, Frank C., 42 B'way
 Plymouth Realty Co. (Contracting), 1368 B'way
 *Pollock, Alex., 203 West
 Porter, Holbrook F. J. (Consulting), 1 Madison av
 Post, Henry W. (Consulting), 281 4th av
 Potter, Alex. (Consulting), 143 Liberty
 Power Engineering & Construction Co. (Contracting), 1123 B'way
 Power Specialty Co. (Consulting), 111 B'way
 Pratt, Chas. R. (Consulting), 1123 B'way
 Pratt, Wm. A. (Consulting), 50 Church
 Prince, Benjamin (Consulting), 71 B'way
 Providence Cons. Gold Mining Co. (Mining), 5 Nassau
 Providence Engineering Works (M. E.), 42 B'way
 Provost, Francis A. (Contracting), 50 B'way
 Pryce, E. Hugh (Consulting), 136 Liberty
 Pultz, J. L. (Mining), 71 B'way
 Pultz, John T. (Consulting), 2 Rector
 Purdy & Henderson, 78 5th av
 Purification & Engineering (Consulting), 50 Church
 Quay Engineering Co. (Consulting), 1123 B'way
 Randall, Geo. W., 1123 B'way
 Randall, Wesley (M. E.), 71 B'way
 Randolph, Jno. C. F. (Consulting & Mining), 15 Broad
 Ransome & Smith Co. (Consulting), 11 B'way
 Raque, Philip E. (Consulting & Contracting), 150 B'way
 Raymond, Rossiter W. (Consulting & Mining), 29 W 39th
 Rector Engineering Co. (Consulting), 1 Madison av
 Reed, S. A. (Consulting), 17 Battery pl
 Reed, Wm. B., Jr., 162 W 121st
 Rees & Co. (M. E.), 220 E 86th
 Reid, Thoburn (Consulting), 93 Wall
 Rehnert, Fred'k (& Surveyor), 280 B'way
 Reis & O'Donovan (Consulting M. E.), 1123 B'way
 Rendall, Geo. F. (Mining), 120 Liberty
 Reno, Jesse W. (Mining), 553 W 33d
 Renwick, Edward S. (M. E.), 19 Park pl
 Reynolds, John P., Jr. (M. E.), 21 Park row
 Rhodes, Fred. Dana (& Consulting), 90 West
 Richards, Chas. R. (Dir. Dept. Manual Training, Teachers' Col., Columbia University)
 *Richards, Francis H. (Expert in Patent Cases), 11 Murray
 Richards & Gaston (Contracting), 143 Liberty
 Ricketts & Banks (Mining), 104 John
 Ries, Elias E. (Consulting), 116 Nassau
 Riordan, D. M. (Mining), 42 B'way
 Risse, Louis A. (& Surveyor), 17 Park row

Robbins, Percy (Consulting), 165 B'way
 Roberts, Evelyn (Consulting), 18 B'way
 Roberts, H. B. (M. E.), 45 B'way
 Roberts V. 225 5th
 Robinson, Cyrus (Consulting), 71 B'way
 Robinson, James K. (Consulting), 45 Plne
 *Robinson, John M. (M. M. & Supt.), 15 Broad
 Roblison & Wagner, 1 Madison av
 Rockwell Engineering Co. (M. E.), 26 Cortlandt
 *Roelker, Hugo B. (Consulting), 41 Maldeu
 Rogers, A. H. (Mining), 82 Beaver la
 Rogers, A. P. (Mining), 52 B'way
 Rogers, E. M. (Mining), 32 B'way
 Rogers, Geo. H. (& Surveyor), 7 E 42d
 Rolderer, Rudolph M., 141 B'way
 Rolf, Bernard, 39 Cortlandt
 Rothschild, F. (Contracting), 71 B'way
 Ross, Lucien D., 1 Union sq. W.
 Ross, Auguste J. (& Mining), 35 B'way
 Rublen, Fred'k W. (Surveyor), 51 Chambers
 Rudolph, Jacob (Surveyor), 703 Lexington
 Ruggles, Horace F. (M.E.), 106 Wall av
 Ruggles, Wm. B., 39 Cortlandt
RUGGLES-COLES ENGINEERING
 Co. (M. E.), 39 Cortlandt. (See adv. index, end of book)
 Rusling Co. (Contracting M. E.), 39 Cortlandt
 Rutherford, Robt. A. (Contracting), 59 Pearl
 Sandbach, B. W. & Co. (Contracting), 101 Prince
 Sanderson & Porter (Engineers & Contractors, Gas, Electric Light & Power), 52 William
 Sanford, Henry (M. E.), 149 B'way
 Sanford, Harry C., 60 Wall
 *Sayward, John F. (H. & V. Engr.), 525 W 23d
 Schaefer, J. H., 3d av c E Tremont av
 Schaeffer, Amos L., 2309 Loring pl
 Schermerhorn, Richard J., 29 B'way
 Schoenijahn, Robert P. (M. E.), 150 Nassau
 Schmidt, Max E., 45 B'way
 Scholl, Julian & Co. (Contracting), 126 Liberty
 Schroeder, John A. (M. E.), 149 B'way
 Schroter, Geo. A. (Mining), 111 B'way
 Schuchart, Paul A. (Consulting), 17 Park row
 Schwartz, Alfred (Mining), 15 Broad
 Schweirs & Sutton Co. (Contracting), 90 West
 Schwerin, Martin (Mining), 49 Wall
 Scott, James B. (M. E.), 27 William
 Scribner, Chas. W. (M. E.), 39 Cortlandt
 *Seaman, Henry B. Consulting, 40 Wall
 *See, Horace (& Naval Architect), 1 B'way
 Sergeant-Maxwell Co. (Contracting), 32 B'way
 Serrell, Lemnel W. (Est. of) (Consulting M. E., Electric, Railway, Power & Lighting Plants, etc.), 29 B'way
 Serrell & Schenck (M. E.), 17 State
 Sever, Geo. F. (Consulting), 17 Park row
 Seward, J. Loyal, 215 W 23d
 Sharpless, Fred'k S. (Consulting Mining), 52 B'way
 Shaw, Chas. H. (M. E.), 141 B'way
 Shedlock, Alfred (M. E.), 45 B'way
 Sheffield, A. W., 122 E 25th
 Shepard, Gilbert R. (M. E.), 444 Water
 Shockley, Jos. H. (Consulting), 66 B'way
 Simonds & Burns (Mining), 60 Wall
 Simpson, Geo. (Consulting), 51 Wall
 Sirocco Engineering Co. (M. E.), 140 Cedar
 Skerrett, Robt. G. (M. E.), 15 William
 Slade, Arthur J. (M. E.), Times bldg
 Slawson-Graham Co. (Contracting), 24 New Chambers
 Smidth, F. L. & Co. (Consulting, Contracting, Cement Plants & M. E.), 39 Cortlandt
 Smith, A. Delos (M. E.), 156 5th av
 Smith, Augustus (Contracting), 149 B'way
 Smith, Chas. F. (Consulting), 18 B'way
 Smith, Fred'k L. (M. E.), 5 Beekman
 *Smith, Jesse M. (Consulting & Electrical & Expert in Patent Cases), 220 B'way
 Smith, Mortimer A., 90 W B'way
 Smith, Robert W. (Civil), 136 Liberty
 Smyth, David W. (Mining), 41 Liberty
 Snare & Trilest Co. (Steel Structural), 143
 Snow, Chas. H., University Hts. Liberty
 SooySmith, Chas. (Consulting), 71 B'way
 Soper, Geo. A. (Sanitary), 20 B'way
 Sonne, Otto, 132 Nassau
 Sorensen & Farrington (Contracting), 150 5th av
 Sorzano, Julio F. (Consulting), 52 B'way
 Sovereign, R. J. Co. (Contracting), 63 5th
 Spence, Peter C., 156 5th av
 Spencer, Wm. (Mining), 27 William

Spillsbury, E. G. Engineering Co. (Consulting), 45 B'way
 Splindler, H. H. (Surveyor), 2808 3d av
 Splinner, Francis E., 35 Warren
 Sprague, F. J. (Consulting), 20 Broad
 Spurr, J. Edw. (Mining), 71 B'way
 Staats, R. P. & J. H. (Inc.) (Contracting), 29 B'way
 Stadelman, Fred'k (M. E.), 50 Church
 Standard Temperature Regulator Co. (M. E.), 90 West
 Stanton, Robert B. (Consulting), 66 B'way
 Starr Engineering Co. (Consulting), 258 B'way
 Starrett, Theo. (Consulting), 2 Rector
 Starr-King Development Co. (Mining), 5 Nassau
 Steele, Wesley (Consulting), 56 Pine
 Steeneken, Frank L., 205 E 17th
 Steers, Henry (Inc.) (Consulting & Contracting), 17 Battery pl
 Stehlin-Miller Co. (M. E. Consulting), 103 Park av
 Stetson, Thos. D. (Mech'l Expert & Patents), 108 Fulton
 Stevens-Hewitt Engineering Co. (Contracting), 15 William
 Stevenson, Raldiris & Co., 261 B'way
 Stevenson, James (Mining), 44 Broad
 Stevenson, Robert (Consulting), 52 B'way
 Stewart, John M., Pier A, N. R.
 Stillman, Oscar B. (M. E.), 76 William
 Stillwell, Lewis B. (Consulting), 100 B'way
 Stoddard, Geo. C. (& Surveyor), 217 W 125th
 Stokes, George W. (Consulting), 66 3d av
 Stoue, Wilbur M. (Consulting & M. E.), 21 Park row
 Stonestreet, Geo. D. (Mining), 45 B'way
 Stratton, E. Platt (Consulting Mechanical), 66-70 Beaver
 Street, Edgar L. (Consulting), 43 Cedar
 Strong, Mason R., 7 Wall
 Suren, Ferdinand (M. E.), 416 E 162d
 Suter, Geo. A. & Co. (M. E.), 112 Wooster
 Sutherland, Alexander M. (M. E.), 49 Wall
 Sutherland, F. T. (Mining), 15 Broad
 Sutton, Frank (Consulting), 91 Wall
 Swezey, E. C., 44 Pine
 Swinburne & Co. (Consulting), 156 5th av
 Sykes, Geo. (Contracting), 1123 B'way
 Taggart, Ralph C. (M. E.), 61 Park row
 Tainter, F. S., 90 West
 Taylor, Frank (Consulting), Produce Exchange
 Taylor, Wyant W. (Consulting), 2 Rector
 Ten Broeck, Floyd G. (Consulting), 309 B'way
 Terry, Steinacher Co. (Contracting), 150 Nassau
 Thacher, Edwin, 17 Park row
 Thayer, B. B. (Mining), 42 B'way
 Thompson, Ellis (Consulting), 56 Pine
 Thompson, Geo. H. (Consulting), 21 Park row
 Thompson, Peter (Contracting), 1908 Park
 Thomson, H. Serrell, 220 B'way
 Thomson, T. Kennard (Consulting), 50 Church
 Thomson, William (M. E.), Havemeyer, c
 Thornley, Julian, 220 B'way Ellis av
 Timmis, W. T. (Consulting), 150 Nassau
 Tingley, R. H. Co. (Consulting), 27 William
 Todd, Joseph C. (M. E.), 203 B'way
 Tompkins, C. H., 90 West
 Tonking, Jas. B. (Consulting), 90 West
 Torrance, Henry, Jr. (M. E.), 50 Church
 Tew, W. H. (Consulting), 90 West
 Towl, Forrest M., 26 B'way
 Towle, F. E., Jr. (Surveyor), 243 B'way
 Towle, Herbert L. (Consulting), 150 Nassau
 Towle, Stevenson (Consulting), 7 E 42d
 Towle & Towle (& Surveyors), 5 E 42d
 Townsend, Arthur R. (Mining), 52 B'way
 Tractor Engineering Co. (Contracting), 5 Nassau
 Tracy, Jos. (Consulting), 116 W 39th
 Tracy Engineering Co. (Consulting), 66 Beaver
 Trainor, Jno. J. (M. E.), 101 Warren
 Traylor Engineering Co. (Civil Mining), 2 Rector
 Treadwell, M. H. & Co. (Contracting), 90 West
 Tribus & Massa, 84 Warren
 Trotter, Alfred W., 141 B'way
 Truesdall, W. E. (C. E.), 7 W 38th
 Tubbs, Albert W. (M. E.), 11 B'way
 Tucker, Benj. W. (Consulting M. E.), 143 Liberty
 Tucker, William C. (Sanitary), 156 5th av
 Tucker & Vinton Corp. (Contracting), 103 Park av
 Turbo Electric Construction Co. (Consulting), 39 Cortlandt

*Tuska, Gustav R. (Consulting C. E. & M. E.), 68 William
 Underhill, Chas. R. (Consulting), 55 Liberty
 United Engineering & Contracting Co. (Consulting & Contracting), 17 W 42d
 Urban Contracting & Heating Co. (M. E.), 114 5th av
 United States Engineering Co. (Contracting), 27 William
 United States Drying Engineering Co. (Consulting), 99 Pearl
 Upham, Richard D. (& M. E.), 11 B'way
 Vall, Carl M. (M. E.), 8 Bridge
 Vanderhorst, Elias (Consulting), 45 B'way
 Van Horue, John G. (Consulting), 29 B'way
 Van Vleck, John (M. E.), 100 B'way
 Van Winkle, Edw. (Consulting), Flat Iron bldg
 *Veit, Richard C. (Mgr. Marine Dept., Standard Oil Co.), 26 B'way
 Vermeule, Cornelius C., 203 B'way
 Vesterdahl, Karl & Co. (Contracting), 90 West
 Vickess, Samuel (Consulting & M. E.), 107 Front
 Viele, Blackwell & Buck (& Consulting), Vogel, Henry W. (Surveyor), 51 Chambers
 Von Goeben C. & Engel (Consulting), 90
 Von Hoffmann, Ferd., 1133 B'way West
 Von Rosenberg, Leo (Mining), 42 B'way
 Vredenburg, Watson (& M. E.), 135 B'way
 Wainwright, J. Howard (Mining), 60 Wall
 *Waitt, A. M. (Consulting M. E.), 165 B'way
 Walsh, Sidney J. (M. E.), 194 Bowery
 Walters, Malcolm H. (M. E.), 2177 8th av
 Warfield, Lewis (Mining), 15 William
 Waring, Chapman & Farquhar, 874 B'way
 Warner, Chas. D., 43 Exchange pl
 Warner, Chas. S. (Consulting), 165 B'way
 Waldo, Leonard (Consulting), 49 Wall
 Waldo, William B. (Contracting), 21 Park row
 Waldron, Fred'k A. (M. E.), 37 Wall
 Walker, Robert L. (M. E.), 21 Park row
 Wallace, Jos. H. & Co. (Consulting & Superintending M. E.), 5 Beekman
 Ward, Geo. A. (M. E.), 25 W 42d
 Warner, Geo. M. (M. E.), 29 W 5th
 Warren Co. (Contracting), 345 5th av
 Washington Co. (Contracting), 39 Cortlandt
 Washington, Wm. D. H. (M. E.), 29 B'way
 Waterman, F. N. (Consulting & M. E.), 100 B'way
 Waters, Rob't L. (Surveyor), 90 W B'way
 Watson & Watson (Consulting Mining), 25 Broad
 Weaver, Jno. L. (Mining), 120 Liberty
 Webster, Albert L. (Consulting), 82 Wall
 Webster, J. O. B., 17 Park Row
 Webster, Warren & Co. (M. E.), 17 State
 Weems, David G. (Mining), 58 William
 Weinheim, E. (Mining), 29 B'way
 Weir, M. Wakeman, 45 B'way
 Weireter, Chas. A. (M. E.), 136 Liberty
 Weiskopf & Stern (Consulting), 68 William
 Weld, Christopher M. (Consulting), 2 Rector
 Wellman-Scaver-Morgan Co. (Consulting C. E. & M. E.), 50 Church
 Wells, J. Hollis (Consulting), 32 Nassau
 *Wells, J. Leland (Pres., Wells & Newton Co.), 292 Av B
 Wells, Justin P. (Consulting), 26 Cortlandt
 Wendland, Chas. F. (Consulting), 176 Centre
 Wendtland, William (M. E.), 216 Centre
 Westerberg & Williams (Contracting), 120 Liberty
 Westervelt, Wm. Y. (Consulting & Mining), 100 William
 Westinghouse, Church, Kerr & Co. (Contracting), 8 Bridge
 Weston Engineering Co. (M. E.), 39 Wall
 Wetmore & Lauding (Consulting & M. E.), 21 Park row
 Wheeler Condenser & Engineering Co. (M. E.), 90 West
 Wheeler, Geo. O. & A. E. (Surveyors), 1154 St. Nicholas av
 *Wheeler, Schnyler S. (Pres., Crocker-Wheeler Co.), 30 Church
 Whinery, Sam'l (& Consulting), 95 Liberty
 Whipple, Geo. O. (Consulting), 103 Park av
 White, J. G. & Co. (Consulting & Contracting), 43 Exchange pl
 Whitney, A. R., Jr., & Co. (Contracting), 135 B'way
 Whitney, Chas. S. (M. E.), 90 William
 Whitney, O. R. (M. E.), 39 Cortlandt
 Whitney-Steen Co. (Contracting), 135 B'way
 Whyte, Nicholas, 7 Wall
 Wlgand, Albert A., 101 Warren
 Wilkinson & Stewart (M. E.), 5 Beekman

Wiley, Henry Ide (Consulting), 170 B'way
 Williams Engineering & Contracting Co.
 (Contracting), 17 Park row
Williams, Proctor & Potts (Inc.) (Consult-
 ing, Sewers, Waterworks & General Con-
 struction), 17 Battery pl
 Williamson, F. S. (Consulting), 84 William
 Wills & Marvin (Contracting), 1170 B'way
 Wilmoth, W. F. (Consulting), 409 W 15th
 Wilson, Fremont (Consulting), 34 Plne
 Wilson, Henry C. (Consulting), 1 Madison
 Wilson, Jno. (Consulting), 17 B'way av
 Wilson, Wm. (Consulting), 100 William
 Wiltsee, Ernest A. (Mining), 111 B'way
 Winters, James E., 1123 B'way
 Wohlauser, A. A. (Consulting), 500 5th av
 Wolf, John G. (M. E.), 185 Greenwich
 Wolfe, Christian J. (Contracting), 24 Stone
 Wolff, Alfred R. (Consulting), 130 Fulton
 Wood, Benj. B., 21 Park row
 Wood, Edgar J. Co. (Consulting), 243 B'way
 Wood, Hy. S., 17 Park row
 Wood, Wm. A. (Consulting), 2 Rector
 Woolen, Arthur (Consulting), 42 Pine
 Woolson & Deck Co. (M. E.), 26 Cortlandt
 Wortley, Samuel S. (Contracting), 39 Cort-
 landt
 Wotherspoon, Harry H. (Mining), 217 W
 125th
 Wright, J. K. (M. E.), 136 Liberty
 Wylie, Jas. A. (Surveyor), 5 Beekman
 Wynn, Hy. G., 312 Madison av
 Yeatman, Pope (Mining), 71 B'way
 Young, Wm. R. (M. E.), 26 Cortlandt
 Zabriskie, A. J., 23 5th av
 Zafinski, E. L. (Consulting), 201 E. 16th
 Zirkel, William J. (Mining), 545 W 22d
 Zoak, M. A., 74 B'way

Borough of Queens.

ELMHURST—Browne, Walter I., 31 B'way
 FAR ROCKAWAY—Conklin, E. W. & Sons (&
 Surveyors)
 FLUSHING—Bogert, Jno. L. (M. E.), Myrtle av
 Tnnis, O. Lyman (M. E.)
 Grotz, Peter E. (M. E.), Myrtle av nr Law-
 rence
 Hanimann, Charles (M. E.), 127 Leavitt
 Haviland, Geo. W., Jr. (& Surveyor)
 Kimball, A. Howard, 45 Main
 Kouhn, Jno. J., 102 Amity
 Roullier, Gustave R., 45 Main
 Wilson, Robert, 11 Main
 Ver Kouteren, Adrian J. (Consulting), 97
 Burling av
 GLENDALE STATION—Browne, Walter G. (&
 Surveyor)
 HOLLIS—Clifford, C. H.
 JAMAICA—Conklin, Ezra W. & Son, 354 Ful-
 Evans Bros.
 Evans, D. J. & Co., 357 Fulton av
 Kurz, Robert (Surveyor), 26 Ackroyd av
 McLanghlin, Sylvester H. (& Surveyor), 324
 Morris, Geo. A., Fulton
 LAUREL HILL—Boenig, Robert W. (Consul-
 ing, Nicholl's Chemical Co.)
 LONG ISLAND CITY—Beebe, Alexander S.
 (Surveyor), 24 Jackson av
 Burke Engineering & Contracting Co., 152
 Elwood, Frank E., 123 11th West av
 Farley, Philip P., 246 Jackson av
 Fisher, Howell T., 142 3d
 Hinchman, M. L. (Mining), 246 Jackson
 av
 Gould & Murphy Engineering & Contract-
 ing Co., 182 B'way
 Hood, J. Nelson, 142 3d
 Meyers, Willard F. (M. E.), Vernon av c
 Rapelje, Peter, 142 3d
 Smith, Leonard C. L., 24 Jackson av
 Tait, Harold, Jackson av, c 5th
 Vanalst, Peter G., 702 Vernon av
 MASPETH—Meinekheim, Bernard G.
 *Richardson, Clifford (Dir. Testing Labora-
 tory), 6th & West av
 Skeen, Fred'k, 411 Lockwood
 Smith, Leonard C. L. (& Surveyor), 24 Jack-
 Tait, Harold, 5th & Jackson av son av
 Vanalst, Peter G., 702 Vernon av
 NEWTOWN—Bartlett, Homer L.
 RICHMOND HILL—Deehan, James F., 279
 Johnson av
 Howe, R. W., Myrtle av, c Park
 Wallis, Philip (Supt. M. P., L. I. R. R.
 Co.)
 WOODHAVEN—Deehan, Jas. F. (& Surveyor),
 1503 University pl

Borough of Richmond.

LINOLEUMVILLE—*Melvin, Davin N. (Supt.,
 American Linoleum Mfg. Co.)
 NEW BRIGHTON—Bragdon, Edmund V.
 Creedon, Jno. F., Rich bldg
 Fetherston, John T., Rich bldg

Freeman, Llewellyn W., Rich bldg
 Frey, Michael F., R. R. Station
 Morrison, Hy. P.
 Oxholm, Theo. S., Rich bldg
 Pratt, Wm. A., R. R. Station, St. George
 Riches, Jas. H., Rich bldg
 Rotheroe, Fred'k J. (& Consulting), 407
 Snedeker, Wm., Rich bldg Rich ter
 Stout, Ellarson, Rich bldg
 Tribus, Louis L., Rich bldg
 Tuttle, Geo. W., Rich bldg
 PORT RICHMOND—Gonigal, John F., Granite-
 Kelly, Thomas M., 5 Anderson av ville
 Nye, James
 ROSEBANK—Shortt, Jno. H., Sea av n Rich av
 ST. GEORGE—Bouton, Arthur G., Borough
 Casey, James J., Borough Hall Hall
 Frey, Michael F., Crabtree bldg
 Greunthal, A. F., Borough Hall
 Hillyer, Wm. R., Borough Hall
 Kelly, Thos. M., Borough Hall
 Law, Edward M., Borough Hall
 Lurye, Hy. I., Borough Hall
 Mouronval, Henri, Borough Hall
 Nichols, Munson, Borough Hall
 Redgrave, Wm. B., Crabtree bldg
 Riches, James H., Borough Hall
 Samuelson, Abraham B., Borough Hall
 Selmer, William, Borough Hall
 Snedeker, William, Borough Hall
 Stout, Ellarson, Borough Hall
 Tribus, Louis L., Borough Hall
 Wood, Robt. W., Borough Hall
 Yetman, Hubbard R., Borough Hall
 TOTTEVILLE—Yetman, Hubbard R.
 WEST NEW BRIGHTON—Morrison, Hy. P.
 (& Surveyor), 177 Rich ter
 Pettigrew, Walter E. (& Surveyor), 177
 Rich ter

(End of New York City)

NIAGARA FALLS—Brackenridge, W. A. (Con-
 Burns, E. Z., 824 Ashland av sulting)
 Douglass, A. C. (Mining)
 Johnson, W. C. (Consulting)
 Jones, Walter (City)
 McCullough, Walter.
 Palmer, Powles D. (M. E.), 9 Maple av
 NORTH TONAWANDA—Cushing, B. L.
 Smith, A. P. (& Surveyor)
 NYACK—Demarest, J. E.
 OGDENSBURG—Tate, Geo. A.
 Tate, Thomas B.
 ONEIDA—Tibbitts, Geo. S.
 ONEONTA—Seybolt, A.
 Miller, Orson A. (City)
 OSSINING—Horton, Wilbur E. (& M. E.), 165
 Palmer, Powles D., 9 Maple av Main
 OSWEGO—Harris, Nelson J., City Hall.
 PAINTED POST—*Parsons, Fred'k W. (Treas.,
 Imperial Engine Co.)
 PATCHOGUE—Applegarth, A. P.
 Smith, Emmett
 PEEKSKILL—Reynolds, I. W.
 Wright, Geo.
 PLATTSBURG—Averill, H. K.
 PORTCHESTER—*Burdall, Elwood
 Kirley, Richard S.
 McIntire, Geo. A. (M. E.)
 Sands, Purdy G.
 POTSDAM—*Aldrich, Wm. S. (Consulting)
 Crnkshank, Barton (M. E.) (Pres. Clarkson
 School Tech.)
 Doble, Robert McF. (Consulting M. E.)
 Robinson, Edward (Prof. Mech'l Eng'r'r,
 Clarkson School Tech.)
 POUGHKEEPSIE—Brevoort, B. H. (Consulting,
 & Surveyor) 54 Market
 Hart, Fred'k (M. E.), Builds & Develops all
 Kinds of Inventions, Lansing ave
 Lloyd, Percival M. (M. E.), 39 Market
 RICHMOND HILL—(See New York City, Bor-
 ough of Queens)
 RIVERHEAD—*Edwards, J. Irving
 ROCHESTER—Ashley Machine Works (M. E.),
 714 University av
 Brown, Legrand (Consulting), 16 State
 Cochrane, R. B. (M. E.), 15 St. James
 *Dnerner, Hy. L., 925 St. Paul
 Fisher, E. A.
 Fitch, Henry L., Livingston bldg
 Gaskin, R. E. & E. W., Elwood bldg
 Grant, A. J., Elwood bldg
 Gray, Wm. C., Livingston bldg
 Jones, H., 53 Madison
 La Casse, A. H. (M. E.), E. & B. bldg
 Lysle, W. S. (Consulting Mining & M. E.),
 29 Elizabeth
 Morse, Wm. F. (M. E.), 191 State
 Peck, Cassius C. (Consulting M. E.), E. &
 B. bldg
 Rafter, Geo. W. (Consulting, Water Works,
 Sewerage & Sewage Disposal), 195 Ken-
 Ryan, John C., 120 Arcade wood av
 Storey, W. R., E. & B. bldg
 Taylor, H. W. (City)

Titus, A. B. (Surveyor), 16 State
 Trebert, H. L. F. (M. E.), 407 St. Paul
 ROME—Knight & Hopkins (Consulting)
 Schillner, Geo. C. (City), 106 Canal
 Stanwix Eng. Co., The
 SAG HARBOR—Hunt, E. Z.
 SANDY HILL—McCarty, Jas.
 Monty, J. P.
 SARATOGA SPRINGS—Mott, J. S. & Son
 (City)
 SCHENECTADY—FitzGerald, J. L., 175 Jay
 Gifford, Wm., 785 State
 Hook, Gullian S., 705 Union
 Jackson, J. M., 32 Wash'n av
 Landreth, Olin E. (Prof. of Eng'r'g, Union
 McDonald, A. J., 437 State Col.)
 Mills, N. C., 227 Liberty
 *Riddell, Jno. (Mech'l Supt., Gen. Elec. Co.)
 Sebring, Lewis B., 116 1-2 Wall
 Smith, Dewitt C., 118 1/2 Wall
 Trumbull, Chas. W., 703 State
 STAPLETON—(See New York City, Borough of
 Richmond)
 SYRACUSE—*Bates, Ed. P. (Mfr. Htg. Appts.),
 228 W. Water
 Bauder, B. F., 311 Noxon
 Beach, H. T. (Consulting), City Hall
 *Blauvelt, W. H. (Gen'l Mgr., Semet Solvay
 Co.)
 *Bnmp, Burton Nelson (Eng'r of Tests, Sol-
 vay Process Co.)
 Clarke, T. W., City Hall
 Griffin, Rhesa, 307 E. Genesee
 Hawkinson, F. W., 108 Harrison
 Higgins, Geo. E., 84 Wleting blk
 Hodgkins, H. C. (C. E.), Kirk bldg
 Mather, Thos. H. (Consulting), O. C. S.
 Bank bldg
 Morrison & Farrington (& Surveyors), Dil-
 laye Mem. bldg
 Newkirk, W. H., 807 Montgomery
 Schnauber, Frank J. (Consulting)
 Strong, D. C., 211 E Jeffn
 Strong, E. S., City Hall
 *Trump, Edward N. (Gen'l Mgr. & Chief
 Engineer, Solvay Process Co.)
 Woodward, Wm. J., 307 E. Genesee
 TARRYTOWN—Carpenter, Ward
 Parsons, F. W. (M. E.) (Supt., Rand Drill
 Merritt, D. S. Co.)
 Wolf, C. E.
 TROY—Baltimore, Garnett D., 162 8th
 *Burden, Jas. A. (Pres., Burden Iron Co.),
 Colby, John D., 2240 5th av 6th Ward
 Edwards, F., 369 Congress
 Flynn, Jno. Jr., 87 3d
 *Goldthwaite, Abel G. (Supt. Construction,
 W. H. Tolhurst & Son), Fulton c 6th av
 Halligan, Henry H., 201 Ferry
 *Hammett, Hiram G. (Mgr., M. C. Ham-
 mettt), 476 8th
 Mason, Wm. P. (Water Analysis) Polytech-
 nic Institute
 Rensselaer Polytechnic Institute.
 *Ricketts, Palmer C. (Dir. & Prof. Mech.,
 Rens. Poly. Inst.)
 TUPPER LAKE—Langlotz, Robert (M. E.)
 UTICA—*Babcock, Stephen E. (Consulting C.
 E., M. E. & Hydraulic), Mann bldg
 Bartow, Pierrepont (& M. E.), 207 Oneida
 Baxter, Francis K. (& Hydraulic), 46 Ar-
 cade
 Baxter, John R. (Surveyor), Utica City
 National Bank bldg
 Capron, Jay, 99 Park av
 Frisbie, Byron, 38 Dudley av
 Johnson, C. L., 238 Mary
 Lewis, Clifford, Jr., Second National Bank
 Mott & Kemper, 20 Arcade bldg
 Robertaccio, Lenardo, 750 Bleecker
 Schultze, Paul (City Engineer), City Hall
 Seymour, Horatio, Utica City National Bank
 bldg
 Sherman, R. W., Utica City Nat'l Bank
 bldg
 Stone, Wm. G. & Son (& M. E.), Mann
 bldg
 Sweet, H. B. (Consulting Engineer), 17
 Clarendon
 Taylor, Charles S. (& Surveyor) 62 Arcade
 WALTON—Randall, Theo. D.
 WARSAW—McClure, Jas. O.
 WATERTOWN—Carter, D. F., 10 Massey
 Cleveland, Milo L., 11 Mill
 Cooper-Madison Co. (Consulting & Design-
 ing Refrigerating, Engineers)
 Eaton & Brownell (Civil & Mechanical)
 Hinds, Frank A., 26 Flower bldg
 McComb, C. O. (City Engineer)
 Semper, C. H., Flower bldg
 Semper, Wm. J., Flower bldg
 WATERVLIET—Sturgess Governor Engineer-
 ing Co. (M. E.)
 Thomas, Jeffrey P., 615 6th
 WAVERLY—Walker, Fredk I.

WELLSVILLE—Sage, Chas. E. (Consulting M. E.)
WEST NEW BRIGHTON—(See New York City, Borough of Richmond)
WEST WINFIELD—Gibson, A. T. (M. E.)
WHITE PLAINS—Byrne & Darling
 Carpenter, J. Henry & Co.
 Farley, J. M. (Town Engineer)
WILLIAMS BRIDGE—Parsons, Fred H.
YONKERS—Baldwin, Wm. Henry, 45 Warburton av
 Cowles, Geo. S., 8 Getty sq ton av
 Jordan, Edward L. 456 Van Cortlandt Park
 O'Connor, Jno. F. K., 618 N B'way av
 *Odell, Wm. H., 5 Van Cortlandt Park av
 Rayner George & Sons, 15 Warburton av
 Skinner & Connelly (M. E.), 3 Nepperham
 Van Suetendaal, A. J., 15 N B'way
 Von Lelliva, Chas. E., 45 Warburton av

NORTH CAROLINA.

ASHEVILLE—Brown, R.
 Lee, B. M.
 Jenks, C. N. (Mining)
 Roebeling, John A.
CHAPEL HILL—Pratt, Jos. Hyde (Mining)
CHARLOTTE—Glichrist, Peter S. (Chemical)
 Hubbell, O. G.
 Morgan, C. C., Engineering Co. (Mining, etc.)
 Tompkins, D. A. Co.
GREENSBORO—Bandy, J. M. (City)
NEWBERN—Brown, Henry A.
 Cheney, Alfred, Jr.
RALEIGH—Barrett & Thomson (Consulting)
 Blake, W. Z. (City)
 Shaffer, A. W.
SALISBURY—Ramsay, Jno. E.
WILMINGTON—Humphrey, C. R. (City)
 Jones, Jas. P.
WILSON—Miller & Tyson (M. E.)
WINSTON SALEM—Ludlow, J. L. (Consulting Civil)

NORTH DAKOTA.

BISMARCK—Harrold, Jno.
CANDO—Judd, E. T.
CARRINGTON—Wiley, Geo.
COOPERSTOWN—Ueland, M. A.
DICKINSON—Brookings, R. S.
 Russell, W. S.
FARGO—Crabbe, S. F.
GRATTON—Mott, H. H.
GRAND FORKS—*Crouch, Calvin H.
 Lavson, T. L.
 Russell, W. S. (City), St. John's blk
 Smith, J. J.
HILLSBORO—Svalestuen, Knute
JAMESTOWN—Conn, Geo.
LANGDON—Darling, A. B.
MANDAN—Harmon, H. E.
MAYVILLE—Bramble, G. E.
MINOT—Jensen, L. P.
VALLEY CITY—Smith, T. M.
WAHPETON—Burbank, J. I.

OHIO.

AKRON—Adamson, C. F. (M. E.), Hamilton blk
 Connor, J. H. (M. E.), Hamilton bldg
 Gehres, J. A. (& County Surveyor), Court House sq
 Herndon, Z. T. (& Mining), Everett bldg
 Klrn, Grant (M. E.), 194 Beck av
 Paul Bros. (& Surveyors), 128 S Main
 Payne, John W. (City)
ALLIANCE—Gyger, Geo. R.
 Pfouts, O. W. (City)
 Urgl, Edw. F.
ASHLAND—Berry, Eivin L. (County Surveyor)
ASHTABULA—Amsden, Lewis
 Mann, Harvey E. (City)
 Shi, J. S.
ATHENS—Hibbard, S. H. (County Surveyor)
BATAVIA—Rapp, John T. (County Surveyor)
BEDFORD—Bedford Engineering Co. (Consulting & Contracting, Bldgs., Bridges, Cranes, etc.) Bedford, O.
BELLAIRE—A. F. Norton (C. E., Mining & Surveying)
BELLFONTAINE—Buchanan, S. A. (M. E.)
 Cushing, C. C. (C. E., M. E. & Mining)
 Grim & Flesher
 Ritchey, Chas. M. (County Surveyor)
 Van Anken, Jas. M. (City)
 Wonders, Jas. C. (County Surveyor)
BOWLING GREEN—Gallier, John
BUYRUS—Bryant, C. P. (County Surveyor)
 Guard, Geo. (M. E.)
 Gulss, Chas. (City)
 Hall-Rittenhouse Co. (M. E.)
 *Holmes, W. C. (Gen'l Supt., New York Blower Co.)
OLDWELL—Brown, S. G. (County Surveyor)
 Danford, E. S. (County Surveyor)
CADIZ—Green, Benj. J. (County Surveyor)

CAMBRIDGE—Hogue, O. M. (City)
 Webster, W. V. (County)
 Woodburn, Albert (County Surveyor)
CANTON—Chapin & Knowles, Central Savings Bank bldg
 Crossley & Waterhouse, 116 Market
 Holl, O. W., 2234 Tuscarawas
 Holl, Jno. H., 130 E Inscarawas
 Myers, F. E., 200 N Market
 Sarver, W. E., 808 Shorb
 Sickafosse, G. L., 804 Linden av
 Weber, Phil. H., 1220 Worley av
CARROLLTON—Shaw, Ell D. (County Surveyor)
CELINA—Lutz, Martin (County Surveyor)
CHARDON—Merkel, E. A. (County Surveyor)
CHILLICOTHE—Fullerton, Union blk
 Redd, Henry M. (City)
 Walker, B. F. (County Surveyor)
 Weber, P. H.
CINCINNATI—Baker, Geo. D. (City), B. of P. S., 359 Resor av
 *Baldwin, Bert L. & Co. (Consulting), Commercial Tribune bldg
 Baldwin, Ward (Civil, Consulting), Commercial Tribune bldg
 Bauer-Shepard Eng. Co. (Consulting), 5th & Main
 Bechtel, Jno. A. (M. E.), 830 Dayton
 Benzenberg, Geo. H., City Hall
 Betts, F. B., 131 E University av
 Boeh, Wm. H. (Chief Engr., City Water Works), City Hall
 Bone, Evan P. (M. E.), 2126 St. James av
 Bone, Frank A., 2126 St. James av
 Bouscaren, J. P., 322 W 4th
 Bradford, Homer (M. E.), 514 Main
 Bradford Machine Tool Co. (M. E.), 657 Evans
 Bryan, Daniel B. (M. E.), Ohio Mechanic's Institute
 Burke, M. D., 4th Nat'l Bank bldg
 Cloud, L. G. (Mining), First Nat'l Bank bldg
 Conway, H. L. (Asst. Engr.), B. of P. S.
 Conway, M. R. (M. E.), 2507 Western av
 Cowen, Clinton (County Surveyor), Court House
 Dannenbower, C. N., 805 Richmond
 Darrow Engineering Co. (Consulting), 1st Nat'l Bank bldg
 Diekmeler, Geo. W., Dayton & Freeman avs
 Dodge Mfg. Co. (Consulting & M. E.), 128 W 3d
 Duhme, Jno. H. (M. E.), 1030 W 6th
 Duwelius, A. L. (M. E.) (Sec'y & Eng'r, Electric Safety Brake Co.), 206 E 5th
 Eberle, Chas. A., 2843 Observatory av
 Engle, Robt. L., 1530 Lincoln av
 Fahnestock, C. M. (M. E.), 608 Commercial-Tribune bldg
 Franz, Walter G. (Consulting), Union Trust bldg
 Gast, E. A., 524 Considine av
 Glaser, Emil Fred., 1202 Vine
 Harrison, Benj. W., 914 Main
 Harper, J. M., Court House
 Hauss, D. J. (Consulting), Mitchell bldg
 Heckle, E. J., Title Guarantee bldg
 Henke, Harry, 1631 Sidney av, ex
 Heyl Bros., c Linn & Hopkins
 Hill, Jno. W., First Nat'l Bank bldg
 Hobart, J. C. (M. E.), 610 Baymiller
 Holzhaib, Edw. J. (Asst. Engr., B. of P. S.), Bell blk
 Hornung, Geo. & Son (& M. E.), Johnston bldg
 Hosbrook, D. S. & Son, Pickering bldg
 Hosbrook & Ferris, Carlisle bldg
 Hoge, E. W., 423 E Liberty
 Illmer & Co. (Consulting M. E., Gas Engine Experts), 4th Nat'l Bank bldg
 Innes, H. C., 728 Burns av, Hartwell
 Jonte, Peter N., 943 Betts
 Kaiser, O. B. (M. E. & Patent Attorney), Carlisle bldg
 Kearney, John & Co. (& M. E.), 328 New
 Knorr, H. E. (Asst County Engineer), Court House
 Krug, Frank S. (County Engineer), Court House
 Layman, E. F. (& M. E.), Blymyer bldg
 Lemon, J. C. (Consulting M. E.), Perin bldg
 Lynn, E. B. Engineering Co., 611 Prospect
 Miles, C. W. (M. E.), Wiggins blk
 Mill, Anton, 96 W McMillan
 Morris, Frank E. (City), 2416 Harrison av
 Morrison, Wm. & James (Constructing), 4th Nat'l Bank bldg
 Paquette, C. A. (C. C. C. & St. L.)
 Punshon, Thos. B., 5th & Race
 Randolph, T. F. Co., 232 E 5th
 Reliance Engineering Co. (M. E.), 4th Nat'l Bank bldg
 Ridgway, Thos. A., Sr., 424 Dayton

Ridgway & Ridgway, Grand Opera House bldg
 Rogers, Chas. L. (Mining), 917 Rogers pl
 Runck, Edw. G. (City), B. of P. S., 316 Vine
 Rugg, J. K. (Consulting & Contracting M. E.), Commercial-Tribune bldg
 Schreiber, The L. & Sons Co. (M. E.), 413
 Sherrod, Jno., United Bank bldg E 8th
 Shipley, H. F., Street & Sewer Repair Dept. B. of P. S.
 Smead, Isaac D. & Co. (Constructing), Commercial Tribune bldg
 Spengel, C. (Draughtsman & Patent Attorney), Atlas Bank bldg
 Sullivan & Stiehnath, Commercial Tribune bldg
 Sundmaker, J. H. (Chief Eng. B. of Public Service), City Hall
 Thalheimer, W. C. (Consulting), 25 E 3d
 Thompson, Jos. P., 1614 State av
 Tozzer, Henry, 4211 Turrill
 Walker, Frank C. (City), B. of P. S., 3640 Russell av
 Wulfkoetter, E. W., Jr., B. of P. S., Huibert blk
CIRCLEVILLE—Sweetman, J. Howard (County Surveyor & City Engineer)
CLEVELAND—Ahim, C. E. F. (Consulting & M. E.), Caxton bldg
 Allen, Albert M. (Consulting & M. E.), Schofield bldg
 American Bridge Co. (Contracting), Rockefeller bldg
 Atwater, Albert A., 154 Blenheim av, Collinwood
 Babcock & Penton (M. E.), Perry-Payne bldg
 *Bartol, Geo. (Gen'l Mgr., Otis Steel Co.), Lake & Lawrence
 Bates, E. P. Engineering Co. (Contracting, Consulting & M. E.), Beckman bldg
 Beardsley, Joseph C., Caxton bldg
 Bill, Herbert W., 21 Public sq
 Boalt, Eugene E., Caxton bldg
 Brown, J. F., Cuyahoga bldg
 Burgess, Clarence H., Lennox bldg
 Butler, N. C. (M. E.), O'Brien bldg
 Carter, Wm. J. (M. E.), Rockefeller bldg
 Claflin, F. N. Engineering Co., 6901 Clinton av
 Cleve-Mor Engineering & Construction Co. Cleveland Eng. Co. (& M. E.), New England bldg
 Corlett Engineering Co. (M. E.), Cuyahoga bldg
 Cowling Engineering Co. (Contracting & M. E.), Citizens bldg
 Cowing, Jno. P. (Contracting), Hippodrome bldg
 Crowell & Murray (Mining), Perry-Payne bldg
 Culley, Geo. Park bldg
 Davis, John B. & Son, 242 The Arcade
 Donnelly, Wm. E. (M. E. & Expert in Patent Cases), Cuyahoga bldg
 Dornbier, Jas. G. (M. E.), 3148 Superior
 Dravo, Doyle & Co. (M. E.), Citizens bldg
 Dushnerre, Geo. B. (Consulting), Electric bldg
 Eibler, B. F. (M. E. & Expert in Patent Cases), Society for Savings bldg
 Eisele & Juengling (M. E.), Century bldg
 Emmerton, F. A. (Metallurgist, Chemist, Assayer), 1501 Columbus rd, N. W.
 Evers, Wm. H. Eng. Co. (City & County Surveyors), The Arcade
 Faragher, Burton P., Rose bldg
 Fltzsimmons, William C., Rose bldg
 Forest City Engineering Co., Superior bldg
 Frazier & Fox (Consulting, Bridges, Power & Industrial Plants, etc.), Rockefeller bldg
 Fuel Engineering Co. (M. E.), Williamson bldg
 Gaehr, David (M. E.), Schofield bldg
 *Garrett-Cromwell Engineering Co. (Consulting, Steel Works, Metallurgical, Rolling Mill Experts & Furnaces), New England bldg
 Garrett, Geo. M., Citizens bldg
 General Engineering Co. (Mechanical, Electric bldg
 Glessen, Chas. H. (& Surveyor), Blackstone bldg
 *Gobellie, Jos. Leon (Cleveland Casting Pattern Co.), Leonard & Winter
 Greene, F. C., Republic bldg
 Hale, H. C. (M. E. & Mining), Schofield bldg
 Hale & Duncan (M. E., for Complete Steam & Electric Power & Mining Plants, etc.), Schofield bldg
 Haulon, W. B. (C. E. & Mining), Electric bldg

Hawkins, David S. (Consulting Mechanical, Electrical), Rose bldg
 Hecker, Ralph (& Surveyor), Electric bldg
 Heisel, Chas. T. (Mining), 429 Prospect av
 Henry & Fording Engineering Co. (M. E.), Blast Furnace & Rolling Mill Machinery & Complete Power Plants, Rose bldg
 Hezlep, A. C., Citizens bldg
 Holbeck Co. (M. E.), Rockefeller bldg
 Hosford, D. Masou (M. E.), Caxton bldg
 Howatt Bros., Schofield bldg
 Industrial Engineering Co. (M. E.), The Arcade
 Interstate Eng. Co. (Contracting & M. E.), Builders Exchange
 Jones, H. Whitford (M. E.), Citizens bldg
 Jopling, Reginald F., Cuyahoga bldg
 Joyce, James A. (M. E.), Chief Eng. Cowling Engineering Co., 6906 Crosby av Col-linwood
 *Kaltenbach & Griess (Consulting), Cham. of Com. bldg
 King Bridge Co. (& M. E.), St. Clair, head of E 69th N. E.
 Klingsley, M. W. (Consulting), Rose bldg
 Knapp, Geo. F. (M. E.), Citizens bldg
 Krause, F. B. (& Surveyor), Society for Saving bldg
 Lauder, Frank B., American Trust bldg
 Lea, Andrew B. (County Surveyor), New Court House
 Le Baron, J. Francis, Park bldg
 Leber, Geo. (M. E.), Caxton bldg
 Lewis, Chas. F., Osborn bldg
 Lindmueller, Edward (M. E.), Williamson bldg
 McArthur & Pae (M. E.), Electric bldg
 McDonald Bros. (M. E.), Hickox bldg
 McGeorge Engineering Co. (M. E.), The Century bldg
 *McKeehnle, Robert R. (Eng'r, Variety Iron Works), Hamilton & E 40th
 McKee, Arthur G. (M. E.), Rockefeller bldg
 McNicholas, James H. (Mining), New Eng-land bldg
 Macbeth Iron Co. (Contracting), W Center & Winslow
 Marani, Virgil G., American Trust bldg
 Merchant, Chas. C., 1691 E 86th, N E
 Millard, Robt. P., Schofield bldg
 *Miller, Walter (Consulting), Rockefeller bldg
 Moore Engineering Co. (M. E.), William-Mullen, Claude F., Rose bldg
 Osborn Engineering Co. (Consulting C. E. & M. E. & Specialists in Designing of Bridges, Machinery, Power, Transmis-sion & Mfg. Plants of All Kinds), Os-born bldg
 Palmer, Chas. G. (Mining), Schofield bldg
 Paul, Hosea, Rose bldg
 Pease, F. A. Eng. Co., Williamson bldg
 Peck, Francis J. & Co. (Mining), William-son bldg
 Phelps, Geo. D. (M. E.), 10801 Churchill av, N.E.
 Prather, H. B. (M. E.), Rockefeller bldg
 Pratt, C. W., Lenox bldg
 Rattle, Wm. J. & Son (Mining), Commer-cial Bank bldg
 Reid, Marcellus (M. E.) (Machinery Equip-ment), Caxton bldg
 Rice, Walter P. Engineering Co., Society for Savings bldg
 *Rider, Geo. S. & Co. (Consulting), Cen-tury bldg
 Rifenberlek, Robert B. (Consulting, Electric Rys.), Williamson bldg
 Ritchie & Ruple (& Consulting), Electric bldg
 Roberts, Thos. W. (M. E.), Society for Savings bldg
 Roberts & Abbott Co. (Inc.) (Consulting C. E. & M. E., Electric Railways, Buildings, etc.), Schofield bldg
 Rogers, William S., Schofield bldg
 Ross, Jas. T., Electric bldg
 Root, Chas. W., Society for Savings bldg
 Ruggles, Ashbel P., 614 Cuyahoga bldg
 Seaver, John W. (M. E.), Caxton bldg
 Sprackling Engineering Co., O'Brien bldg
 Standard Engineering Co. (Consulting M. E. & Electric Railway, Power & Lighting Plants, etc.), Garfield bldg
 Stanton, Le Roy (Consulting), Electric bldg
 Stapf, O. K. & Co. (Surveyors), Rose bldg
 Stephan, Walter G. (M. E.), Citizens bldg
 Strong, Chas. H. & Son (Contracting), Cuya-hoga bldg
 Stroud, Edwin G. (M. E.), Rose bldg
 Tuttle, Jno. V. (& Surveyor), 54 Penrose av, E. C.
 Union Engineering Co. (M. E.), 1616 Co-lumbus rd, N. W.

Varney, Joshua D., 64 Public sq
 Vorce Engineering Co. (& M. E.), Perry-Payne bldg
 Warner, Monroe, 1752 E 89th, N. E.
 Watson, Wilbur J. & Co. (Concrete a Specialty), Citizens bldg
 Welch, Walter E., 2074 E 90th, S. E.
 Wellman-Seaver-Morgan Co. (Consulting & Contracting M. E.), 7004 Central av, S. E.
 Wight, Elmer B., Rose bldg
 COLLINWOOD—*Smith, Harry E.
 COLUMBUS—Bailey, Fred W. C. (Consulting), Wyandotte bldg
 Blinn, Ray S. (Ass't Engineer, Board of Public Service)
 Bradbury, E. G. (Waterworks Sewage & Sewage Disposal), 85 N High
 Bowen, Benj. F. (Surveyor), 226 E State
 Brann, W. (County Surveyor), 418 S High
 Case Mfg. Co. (M. E.), Curtis av c St.
 Courtwright, John, 347 S High
 Franklin Eng. Co. (Consulting), Sav. & Trust bldg
 *Hitchcock, Embury A. (Asso. Prof. Expi. Engineering, Ohio State Uni.), 380 W 8th av
 Hopkins, M. S. (Mechanical), Wyandotte bldg
 Jennings, F. W., 49 N Hig bldg
 Kemmler, E. A. (Ass't City), 85 Deshler av
 Maetzel, Henry (City), 165 Deshler av
 *Magruder, Wm. T. (Prof. Mech'l Eng'r g. Ohio State Univ.), 191 King av
 National Engineering Co., Brunson bldg
 Ray, F. A., 137 King av
 *Robinson, S. W. (Pres., Robinson & Tilton Mfg. Co.), 515 W 1st av
 Scheibell, Wm. O. (Civil), 80½ High
 Shaw, H. J., Outlook bldg
 Wyer, Samuel S. (Mechanical Consulting), Harrison bldg
 COSHOCTON—Bock, George (County Surveyor)
 Fisher, A. M. (City)
 CONNEAUT—Linniger, T. F. (City)
 CUYAHOGA FALLS—Edgecombe Co. (M. E.)
 DAYTON—Baird, Edwin C., Court House (County Surveyor)
 Cellarius, Fred J., Arcade, 3d st. entrance
 Duplaiste, W. E. (Mining), 339 W Grand
 Green, Carl R., 101 E 3d av
 Kemlein, F. Otto (Deputy County Surveyor)
 Keppele-Hall Co., U. B. bldg
 Klepinger, Howard R. (County Surveyor)
 Kline, Robt. E. (City), Callahan Bk. bldg
 McDargh, Harry J. (Consulting), Conover bldg
 Riddell, W. D., U. B. bldg
 Riley, G. W., Callahan blk
 *Schneble, R. G. (M. E.), 521 E Hickory
 Sebald, R. P., c 3d & Jefferson
 Sharts, Stanley R. (Deputy County Sur-veyor)
 Stattelmann, Gustav R., 37 W. Wash'n
 Talbott, H. E. & Co., Reibold bldg
 Turner, Frank M. (City), Reibold bldg
 Waltz, Jos. E., 524 E Hickory
 DEFIANCE—Blue, Frank G. (County Surveyor)
 Steinberger, M. W. (City)
 Toberen, Henry (City)
 DELAWARE—Dike, J. S. (City)
 Mendenhall, E. S. (County Surveyor)
 EAST LIVERPOOL—George, J. A. (City)
 Kelly, Chas. (City)
 Scott, A. W.
 EATON—Roberts, F. C. (County Surveyor)
 ELYRIA—Fauver, Lester A. (County Surveyor)
 Jackson, E. S.
 Theobald, C. M. (City)
 FINDLAY—Boulton, Elmer C. (County Surveyor)
 Glatthart, Harry A. (County Surveyor)
 Rlegle, Jno. W. S. (City)
 FREMONT—Dickenson, I. A.
 Hochenedel, Chas. A. (County Surveyor)
 Hughs, Henry
 Leshner, Geo. (City)
 Rawson, J. L.
 GALION—Atkinson, J. W. (City)
 GALLIPOLIS—Leonard, M. F. (County Survey-or)
 White, W. R. (City)
 GENEVA—Hewitt, B. F. (City)
 GEORGETOWN—Wolfe, L. H. (County Sur-veyor)
 GREENFIELD—Scharranberger, J. H. (M. E.)
 GREENVILLE—Beers, John
 Lucas, C. O.
 Marker, James R. (County Surveyor)
 Slade, Charles (City)
 HAMILTON—Dillon, L. A. (County & City Sur-see, James W. (Consulting M. E.)
 Weaver, John C., Court House
 HARTWELL—Innes, Harry C.
 MacGregor, J. Grant
 Maxwell, Lewis C.
 Wiltsee, Wm. P.
 HILLSBORO—Fenton, B. W.
 Hunter, H. W. (County Surveyor)
 Vance, Hugh S. (County Surveyor)
 IRONTON—Brown, J. R. C. (City)
 Edgerton, James T. (County Surveyor)
 Hatcher, W. B. G.
 Leet, Fred G.

JACKSON—Turner, John W. (County Surveyor)
 JEFFERSON—Matson, J. S. (County Surveyor)
 KENTON—Gillmore, Joseph W. (County Survey-or)
 Myers, Willis E. (City)
 Strong, Paul (City)
 Wilson, O. P.
 LANCASTER—Spangler, Thomas M. (County Surveyor)
 LEBANON—Kemper, W. R. (City)
 LIMA—Brice, John K. (City)
 Craig, Chas. E. (County Surveyor)
 Cronley, John C. (County Surveyor), Court House
 Gamble, Robt. H., 724 N. High
 Taylor, Geo. (Surveyor), 742 W North
 Valeur, H. (M. E. & E. E.)
 LISBON—French, D. M. (County Surveyor)
 Kelley, J. C. (County Surveyor)
 LOGAN—Bebout, James (County Surveyor)
 Davis, James (County Surveyor)
 LONDON—McCafferty, H. V. (County Surveyor)
 LORAIN—*Bunnell, S. H. (Mgr. Coch-Lorain Steel Co.)
 Fauver, L. A.
 Nichols, J. B. (City)
 *Suppes, Max M. (Vice Pres. & Gen'l Mgr., Coch-Lorain Steel Co.)
 McARTHUR—Walker, Simon R. (County Sur-McCONNELLSVILLE—Smith, Frank B. veyor)
 MANSFIELD—Keith, Lorin A. (City)
 Laird, Jacob
 Potts, James C. (County Surveyor)
 MARIETTA—Cole, Arthur (City)
 Gates, E. F.
 Mason, W. P.
 MARION—Ault, Edward S. (County Surveyor)
 Dwyer, Geo. (City)
 Sloan & Ault, Busby blk
 MARTINS FERRY—Lash, Carl P. (City)
 Rowland, Geo. (City)
 MARYSVILLE—Graham, Alvi (County Surveyor)
 Harvey, L. Z.
 Kennedy, J. C. (City)
 MASSILLON—Howard, Harold (City)
 MEDINA—Sheldon, A. D. (County Surveyor)
 MIDDLETOWN—Doty, Frank (City)
 Monjeau, C. (Consulting, Water Supply, Mining Oil, Gas Wells, etc.)
 MILLERSBURG—Robinson, H. H. (County Sur-veyor)
 MOUNT GILEAD—Buck, Thad. E. (County Surveyor)
 Underwood, David (County Surveyor)
 MOUNT VERNON—Ashcroft, O. L. (County Surveyor)
 Cassil, Alex. (City)
 Cureton, Thomas (City)
 Pratt, W. H. (County)
 NAPOLEON—Dielman, Frank E. (County Sur-veyor)
 Kolbe, Henry
 NEWARK—Brown, N. H. (City)
 Gilpatrick, J. L. (County Surveyor)
 NEW LEXINGTON—Baillie, J. (Co. Surveyor)
 NEW PHILADELPHIA—Booth, J. H. (City)
 Murray, Paul R. (County Surveyor)
 NILES—Mackey, O. L., Benedict blk
 Wilson, Wm. (City)
 NORWALK—Laylin, John (County & City Sur-veyor)
 NORWOOD—Jacob, Hy.
 Stewart, Jas. A. (City)
 OTTAWA—Cartwright, J. S. (City)
 Mallow, J. T. (County Surveyor)
 Talbot, O. C. (County Surveyor)
 PAINESVILLE—Cumings, H. P. (City)
 Ward, John C. (County Surveyor)
 PAULDING—Geyer Bros.
 Straw, C. L. (County Surveyor)
 PIQUA—Whitlock, Harry E. (City Engr.)
 PLEASANT RIDGE—Lilly, Jas. A.
 POMEROY—Johnson, S. A. (County Surveyor)
 Watkins, M. H.
 PORT CLINTON—Suhrbler, F. H. (County Sur-veyor)
 PORTSMOUTH—Bratt, B. C. (City)
 Bryan, R. A. (City)
 Harper, Samuel G. (County Surveyor)
 *York, L. D.
 RAVENNA—Cole, Jedidah
 Slaughter, S. E.
 ST. CLAIRSVILLE—Bond, John A. (County Surveyor)
 SALEM—French, Morris (City)
 Strawn, J. B.
 *Weeks, Chas. H., P. O. Box 175
 SANDUSKY—Chase, Rollo D. (County Sur-Judson, Albert W., Court House veyor)
 Miller, J. W., City bldg
 Newberry, S. B.
 Schultz, Augustus Charles (City)
 SHELBY—Weddell, J. E.
 SIDNEY—Blake, W. R. (City)
 Counts, Charles (County Surveyor)
 Pampel, D. W.
 SPRINGFIELD—Bailey, W. D. (M. E.), 221 S Fountain av
 Bird, S. Van (County Surveyor), Court House
 Honpes, Jno. J. (City)
 Olds, E. W., 33 S Fountain av
 Seever, I. N., 25½ E Main
 Sharon, Wm., 278 N Limestone
 Sieverling, Wm. H. (City)
 STEUBENVILLE—Cox, James L. (County Sur-Curfsman, S. B. (City) veyor)
 Flanagan, Chas. E. (City)
 Huston, Samuel, Court House
 White, A. G., McConville bldg

TIFFIN—Peters, Chas. J. (County & City Surveyor)

TOLEDO—Barber, M. T., Gardner bldg
Bissell, F. Co. (Consulting), 228 Huron
Buell, C. W., Board of Public Service
Champe, Geo., The Nasby
Clark, Wm. G., Spitzer bldg
Consaul, F. L. (City), The Valentine
Davis, Chas. S. (Consulting), Ohio bldg
Dixon Engineering & Construction Co. (M. E.), 323½ Huron
Donovan Wire & Iron Co. (Specialists in Designing of Buildings), Chicago & W. & Eakright, O. E., 420 B'way L. E. Ry.
Eddy, Chas. M. (Consulting & M. E.), 819 Madison av
Froehlich, F. H. (Consulting M. E.), Ohio bldg
Gould & Wright (Contracting), The Valentine
Harris, Roswell, 1012 Superior
Hartman, Noble W. (M. E.), 843 Willow av
Hogle, Wm. M., The Nasby
Kaney, J. G., 225 19th
Marston & Gould, The Valentine
Ollphant, Jno. C. (Ass't Engineer), B. of P. S., 404 Batavia
Riggs & Sherman Co. (Consulting), The Nasby
Smith, A. H. (& M. E.), The Nasby
Stratton, J. L., Chambers of Commerce bldg
Touson, Geo. W. (City Engineer), 2056 Warren
Uhl, J. B., 2139 Lawrence av
Van Tuyl & Co. (Consulting) Valentine bldg
Walter, D. C., The Nasby
Wanbecq, Joseph J., 1080 Dorr
Wilhelm, H. W., 716 Jefferson av

TROY—Dowler, J. W. (County)
Walker, H. J. (City & County Surveyor)

URBANA—Pratt, Carey S. (County & City Surveyor)

VAN WERT—Beatty, L. R. (City)
Giffin, Isaac N. (County Surveyor)
Mallick, I. H.

WAPAKONETA—Fisher, Chas. E.
Runkle, Frank (County Surveyor)

WARREN—Dickey, Edw. P.
Milligan, E. M. (City)
White, Homer C.

WASHINGTON C. H.—Kennedy, Frank M.
Perdue, T. K. (City) (County Surveyor)

WAUSEON—Hettinger, John F. (County Surveyor)

WAVERLY—Overman, Henry W. (County Surveyor)
Reno, Howell

WELLSTON—Williams, Eris (City)

WELLSVILLE—George, John A. (City)

WEST UNION—Smart, F. M. (County Surveyor)

WILMINGTON—Brown, J. A. (County Surveyor)

WOODSFIELD—Dougherty, T. A. (County Surveyor)

WOOSTER—Eberhart, Julius (City) (County Surveyor)

XENIA—Garfield, Lyman M. (M. E.) (Supt.)
Miami Power Co.
McKay, G. A. (County & City Surveyor)
Riddle, Levl
Riddle, Warren

YOUNGSTOWN—Haseltine & Montgomery (Mining, etc.), 1818 Wilson av
Lillie, Francis M. (City)
Mackey, C. L., 122 Wick av
Mackey, James, n s McGuffey
Montgomery, Geo. M. (County Surveyor)
Smith, E. S., 49 Central sq
Tod, Geo., Jr., 49 Central sq
Wilson, Wm., 132 Wick av
Wise, D. M., 223 W Wood

ZANESVILLE—Collins, R. G., Jr., 78 N 4th
Dunn, Wm. (County), Court House
Martin, C. V., Opera blk
Scarvell, L., Opera bldg
Smith, E. H. (City)
Walker, Jas. M., B. & O. R. R.
West, Leander (County Surveyor)

OKLAHOMA.

GUTHRIE—White, T. A. (City)
Benham & Adams (C. E.)

OKLAHOMA—Benham & Adams (Consulting, Special Reinforced Concrete Structure, Bradley, Clifton etc.)
Cortney, J. A., 412 Grand av
Dabney, A. L.

OREGON.

ASHLAND—Corbett, J. L.
Evans, C. W. (Mining)

ASTORIA—Ashbury, R. C. F.
Tee, A. S.
Raymond, N. D., 3d c Genevieve

BAKER CITY—Arthur & McEwen (Consulting)
Esselstyn, J. N. (Consulting & Mining)
Nelson, C. DeWitt
Pearson, H. G.
Thompson, Charles H.
Watters, D. M. (Mining & Metallurgist)
Withey, Harry J.

CORVALLIS—Waggoner, G. A.

DALLAS—Ground, Luther

EUGENE—Coller, Charles M.

GRANTS PASS—Mangum, C. L.
Perkins, H. C.
Wright, W. P. & Son

HEPPNER—McGee, Jas. J. (Surveyor)

HILLSBORO—Wilkes Bros.

HOOD RIVER—Henderson, Jno. Leland (Surveyor)

LA GRANDE—Curtis, Arthur

McMINNVILLE—Branson, O. E.
Maloney, H. S. (City)

MARSHFIELD—Cathcart, S. B.

MEDFORD—Howard, J. S.
Jones, G. T.

NEWBERG—Britt, N. E.

OREGON CITY—Johnson, H. H. (Surveyor)
Meldrum, Jno. W. (Surveyor)
Rands, Ernest (City)

PENDLETON—Kimball, J. W.

PORTLAND—Anthony, A. W. (Mining), 743
Bailey, H. W., 142½ 2d Northrup
Ballin, F. A. (Consulting & Contracting M. E.), 43 2d
Barr, W. B., 511 Mississippi av
Barstow, W. S. & Co. (Consulting), Failing bldg

Bell & Wildman (M. E.), 48 2d, N
Bonser, R. C., 724 Gantenbein av
Chandler, H. L., 267 E. 35th
Contracting Engineering Co., Fenton bldg
Cunningham, J. H., 415 Yamhill
Eggleson, J. M. (M. E.), 70 E 9th
Elliott & Scoggin, McKay bldg
Fallows, Benj. (Mining), Chamber of Com.
Glover, T. J. (M. E.), McKay bldg
Goodrich & Goodrich (Consulting), Fenton bldg
Greenleaf, R. S., McKay bldg
Greenley, Louis A. (Mining), 715 Thompson
Grogan, J. M., 323 4th
Grondahl, W. A. (& M. E.), Worcester blk
Hampton, W. H. (Mining), 475 W Park
Hurlburt, J. A., 1143 E Yamhill
Jamieson, J. Q., 475 Hassalo
Kelley, J. G., 29 E 17th, N
Lewis, L. R., Commercial bldg
Lindsey, Jas. (Mining), Cham. of Com.
Lockwood, J. B. C., 414 Holladay
Loring, David, 812 Marshall
McQuinn, J. A., 250½ 3d
Machen, Chas. E. (M. E.), 306 Wheeler
Mulk, T. K. (Mining), Abington bldg
Neville, H. L. (Mining), 349 Ross
Ohlhoff, August, 325 Sheridan
Philbrick, S. M. (M. E.), 420 E 22d, N
Robinson, C. M., 1184 Holgate
Rowland, Theodore, Columbia bldg
Ryan, J. H. (Mining), 396 Eugene
Sears, A. F., 193 Union av, N
Thomas, C. M., 1179 Garfield av
Van Winkle, F. J., Marquam bldg

ROSEBURG—Briggs, W. F.
Kimball, G. W.

SALEM—Gesner, A.
Gobalet, Alfred

SILVERTON—Davenport, Timothy W.

SUMPTER—Elmer, W. W. (Consulting, Mining)
Fenner, C. H.
Juessen, Edmund (Mining)

THE DALLES—Crandall, C. J.
Golt, J. B.
Sharp, E. F.

PENNSYLVANIA.

ALLEGHENY—*Albree, C. B., 1201 Market
Ehlers, Chas. M., 1836 Lowrie
McGrew, John & Edw., Empire bldg
McKinney, W. S. (M. E.) (Pres. McKinney Mfg. Co.), Market & Locust

ALLENTOWN—*Douglass, Wm. M. (Supt. American Steel & Wire Co.)
Fuller Engineering Co. (Analytical Chemists, Cement Plants a Specialty)
Grossart, Chas. W., Ruhe bldg
Grossart, Lewis J. H., Com bldg
Jacoby & Welshampel, Commonwealth bldg
Lehigh Engineering Co. (Bridges, Sewers, Pavements, Water Works, etc.)
Lehr & Bascom, A. N. B. bldg
Martz, J. Howard, B. & B. bldg
Rathburn, R. S., 446 Chew

ALTOONA—*Atterbury, Wm. W. (Supt. M. P., Penn. R. R. Div.)
Carson, S. C., 11th & Greene av
*Dudley, Chas. B. (Chemist, Penn. R. R. Co.)
*Elmer, Wm. Jr., 1222 12th av
Fraser, W. M., Mateer bldg
Gwin & Forsythe, 1100 20th av
Linton, Harvey (City), 612 12th
Sillyman, J. S., Schenck blk

APOLLO—McMullen, P. S.
Moffatt, Ray

ASHLAND—Garner, Joseph R.

ASHLEY—Coulter, William S.
Post, Edw. H.

ASPENWALL—Herr, S. F.

ATHENS—Union Bridge Co.

AVALON—McBride, John

BEAVER—Harper, Jas. (Surveyor)

BEAVER FALLS—Barker, Harry T. (& Surveyor)
Donaldson, Carl L. (City)

BEDFORD—Hackerman, Edw.

BELLEFRONTE—Thomas, F. H.
Wetzel, J. H.

BELLEVUE—Edeburn & Cooper (City)

BERLIN—Tiffany, J. E. B. (C. E. & Mining)

BETHLEHEM—Grossart, L. J. H.
Klein, Jos. F. (M. E.) (Prof., Lehigh Univ.)
*McKee, Jos. J.
Neumeyer, Robert E. (City)
Whitney, Emery S.

BIRDSBORO—Rea, Samuel (Borough)

BITUMEN—Miler, Geo. L. (Mining)

BLAIRSVILLE—Cornell, S. M., Jr.
Kilgore, J. V.

BLOOMSBURG—Eyer, Warren
Neyhard, Samuel

BRADDOCK—Clair, Richard
Howat, William

BRADFORD—McComb, Anthony G.
Seymour, John A.
Webster, Frank M.
Winfree, Peyton B. (City)

BRIDGEPORT—*Wilkinson, Alfred

BRISTOL—Morris, L. V.
Morris, Richard

BROOKVILLE—Caldwell, James
*Jenks, Wm. H.

BRYN MAWR—Dunne, Jno. S. G.
Garrigues, Samuel M.

BURNHAM—*Stevenson, Archie A.

BUTLER—Heydrick, J. A. Sons
McQuiston Bros. (Mining)
Pillow, G. C.

CARBONDALE—Frick, Walter (City)

CARLISLE—Hepburn, Harry
Stayman, G. S.

CARNEGIE—Trimble & Miller

CARRICK—Wolf, O. F.

CATAWISSA—Kittie, J. R.

CHAMBERSBURG—Ives, Chauncey

CHESTER—Chester Engineering & Machine Co. (M. E.)
Howell, E. A. (Consulting)
Johnson, W. Shaler
Ladomus, Charles (City)
Palmer, Charles
Roberts, E. H.

CLAIRTON—Thorpe, Geo. G. (M. E.) (Gen'l Supt., Clairton Steel Works)

CLEARFIELD—Hinterleitner, H. J.
Kurtz, William

CLEARVILLE—Robinson, J. W.

COATESVILLE—Book, H. J. (Borough)
Lufkin, George W. (Surveyor)

COLUMBIA—Goerke, E. W.
Goerke, James F.

CONNELLSVILLE—Allen, W. K.
Foust, Samuel M.
James, S. M.

CORRY—Dixon, N. R.
Ellsworth, Byron

COUDERSPORT—Groves, J. R.

CURWENSVILLE—Moore, T. W.

DANVILLE—Ostrander, O. H.
West, G. W.

DARBY—Harris & Schalcher

DOWNTOWN—Fisher, George H.
Johnson, J. H.

DOYLESTOWN—Meyers, Charles F.
Wintyen, William

DUBOIS—Campbell, George R.
McMinn, H. S.
Moore, William

EASTON—Brady, Chas. M., 79 N 2d
Brady, Peter, Drake bldg
Chidsey, C. F.
Cooper, A. J., 200 Burke
Dawes, Geo., 45 McCartney
Dever, Frank, 723 Jackson
Esch, F. W., 33 S 3d
Fehr, Harry, Drake bldg
Folwell, A. Preston (Consulting), Glover bldg
Francisco, Lewis A. (City)
Gould, F. C., 155 Bushkill
McNeal, Jno., Wayne st.
Osterstock, J. F., 216 Ferry
Porter, J. Madison, 53 N 3d
Sawin, W. H., 165 Spring Garden
Shimer, Arthur, 208 Church
Young, Marshall, Pomfret bldg

ELIZABETH—Vankerk, J. S.

ELIZABETHTOWN—Will, I. N. S.

EMAUS—Weaver, Phaon Co.
Wenner, W. C.

EMPORIUM—Shafer, A. H.

ERIE—Briggs, B. F. (City)
*Germann, J. G., 1603 State
*Helsler, Chas. L. (Consulting), 909 W 8th
Moody, G. L., 259 W 18th
Morton, Edgar J., 320 E 7th
Slater, Edw. C., City Hall

FRANKLIN—Kenneidell, Thos. L., Park c Elk
Reed, E. C., 22 16th

FREDERICKSBURG—Richer, Saml.

FREEPORT—Findlay, G. B.

GERMANTOWN—Tuttle, Edgar F. (Mining)
 GETTYSBURG—Picklug, Harry
 GREENSBURG—Jamison & Fogg
 Jaueway, J. J.
 Loug, C. T.
 Neel, J. J.
 Turney, W. R.
 GREENVILLE—Brodhead, C. E.
 GWYNEDD—Keut, Ellis C.
 HAMBURG—Dreibelbis, S. K.
 HARRISBURG—Bastress, J. N. & Co.
 Cowden, M. B., 222 Market
 Demming, Henry C. (Mining)
 Hershey, C. M., 9 S 2d
 Roberts, G., 15 S River av
 HAVERTFORD—Collier, Austin McD. (M. E.)
 HAZLETON—Altmeier, J. E.
 Ayers, W. S. (Mining)
 Brooks, Cellax W.
 Jones, E. J.
 Kiley, George A. (M. E.)
 Luzerne Engineering Co. (Civil & Mining)
 McNair, J. S.
 HOLLIDAYSBURG—Irvine, O. M.
 HOMESTEAD—Gettys, R. H.
 HOUTZDALE—Good, G. M. H.
 HUMMELSTOWN—Reamsburg, J. T.
 HUNTINGDON—Africa, J. Murray
 INDIANA—Caldwell, J. R.
 Moorehead, D. L.
 JENKINTOWN—Hutter, J. W.
 JOHNSTOWN—Fetterman, S. G., Woolf blk
 Fulton, John (Mining)
 *Morgan, Jos. (Chief Engineer, Cambria
 Fulton, John, 136 Park pl Steel Co.)
 KINGSTON—Rosser, David M.
 KINZUA—Strong, Le Roy
 KITTANNING—Maxwell, W. H.
 Neubert, John
 LANCASTER—Best, Jas. B. (M. E.), 333 E
 Fulton
 Carpenter, Israel (City), City Hall
 Herr, Allen A. (& M. E.)
 Stamm, Fred'k (M. E.), 331 E Fulton
 LANSDOWNE—Janvier, Thomas C.
 LEBANON—Crowell, Thomas R. (City)
 Hain, Daniel W.
 Hayes, G. W.
 LEWISBURG—Reahl, E. B.
 LITITZ—Erh, I. G.
 Miller, Johnson
 LOCK HAVEN—Ball, Charles E.
 Ball, Edw. E. (Surveyor)
 Welch, E. H.
 LUZERNE—Alger, W. B.
 Wright, Thomas
 MCKEESPORT—Hallam & Co.
 *Saunders, Augustus M. (Supt., National
 Taylor, Romine & Scott Tube Works)
 MAHANOEY CITY—Bowman, Mark D.
 Dillman, Daniel
 MANHEIM—White, F. R.
 MAUCH CHUNK—Mackl, Franz (County)
 Yarrington, William
 MEADVILLE—Doane, W. A. (City)
 MEDIA—Bechdolt, C. J.
 Broomall, Carroll
 *Wood, Wm. H. (Contractor)
 MIDDLETOWN—Hoffer, C. H.
 MILLERSBURG—Cooper, S. W.
 MONONGAHELA CITY—Jenkins, George D.
 MONTROSE—Chapman, J. W.
 MOUNT CARMEL—Beveridge, D. E.
 Kemble, Isaac (Borough)
 MOUNT JOY—Brubaker, M. N.
 MUNCY—Lloyd, Thomas
 NEW BETHLEHEM—Shaffer, S. Taylor
 NEW BRIGHTON—Cuthbertson, H. C., 1027 3d
 NEW CASTLE—Gano, S. G. av
 McConahy, Robert H. (City)
 Wood, F. R.
 Zahniser, G. B.
 NEW KENSINGTON—Hall, J. D., 838 5th av
 NEWTOWN—Hutchinson, J. P.
 Merrick, J. S.
 NORRISTOWN—Calhoun, A. K.
 Corson, A. W.
 Corson, S. Cameron (Borough)
 Cresson, Jas.
 Patterson, Malcolm D.
 Rittenhouse, F. (M. E.), opp. P. R. R. Sta.
 NORTH WALES—Freed, I. G.
 OAKMONT—Douglass & McKnight (City)
 OIL CITY—Greenfield, Carl J.
 Hyde, A. T.
 Robinson, H. B.
 Roess, George F. (City)
 PATTON—Ayers, Geo. H. (Borough)
 PERKASIE—Moyer, H. G.
 PHILADELPHIA—Affeck, Wm. B. (Consult-
 ing), 719 Nohle
 Albright & Mebus, Land Title bldg
 American Engineering & Construction Co.
 (Contracting), Drexel bldg
 Armitage, B. & P. (Consulting), Land Title
 bldg
 Armitage, Geo. T. (M. E.), Girard bldg
 Armstrong Latta Co., Land Title bldg
 Atkinson, J. C. (Surveyor), Health Office

Bache, Franklin (Consulting Engineer &
 Mining Expert), Land Title bldg
 Baist, G. Wm., 906 Walnut
 Baker, David (Consulting M. E., Blast Fur-
 naces, Coal Washing, Coke, Metallurgical
 Fuel, etc.), Real Estate Trust bldg
 Barnes, Amos W., 134 S 9th
 Barr, James H. C. (Mining), Land Title
 bldg
 Barrett & Lawrence (Contracting), Bullitt
 bldg
 Barringer, D. M. (Mining), Bullitt bldg
 Bates, F. (Mining), Land Title bldg
 Beadle & Maxwell, Hale bldg
 Beaumont, R. H. Co. (Contracting), Drexel
 Biddle, W. F., 209 S 3d bldg
 Bilgram, Hugo. (M. E.), 1235 Spring Garden
 *Birkinbine, John B. (Consulting), Odd Fel-
 lows Temple
 Birkinbine, Jno. L., Odd Fellows Temple
 Bitler, Frank L., Odd Fellows Temple
 Blanton, E. A., Jr. (Consulting), Phila-
 delphia Bourse
 *Blatchley, Chas. A. (M. E.), Drexel bldg
 Block, Fritz (Surveyor), 724 Spring Garden
 Boardman, Wm. H., 426 Walnut
 Boas, F. J., 14 S Broad
 Bonsack, Jas. A., Hale bldg
 Bonzano, Adolphus (Consulting), 331 S 18th
 Booth, Garrett & Blair (Cement Plants a
 Specialty), 404 Locust
 Borden, Joseph E. (Surveyor), Phila Bourse
 Bourean, H. U. & Co. (Contracting), 3302
 Ludlow
 Boyt, Jno. T. (Consulting), Phila. Bourse
 Brann & Stuart Co. (Contracting), Arcade
 bldg
 Breed, Geo. (Consulting & M. E.), Withers-
 spoon bldg
 Breuil, F. W. (Mining), Drexel bldg
 Briner, Emil A. (Contracting), Phila.
 Bourse
 Brinton, Walter (Surveyor), 521 Venango
 Brubaker, G. S. W. (Consulting), Withers-
 spoon bldg
 Budd, James H., Witherspoon bldg
 Burnap, A. M. (Consulting), Drexel bldg
 Butler, Matthew W. (M. E.), Stephen Gir-
 ard bldg
 Call, Jarvis (Surveyor), 204 Walnut
 Campion, McClellan Co. (Contracting),
 Bailey bldg
 Cantrell & Co. (& Constructing), 112 S 4th
 Carlile, Wm. K. (Surveyor), 1500 Mont-
 gomery av
 Caspar, Chas. H. (Consulting & Contract-
 ing), West End Trust bldg
 Chance, Henry M. (Mining), Drexel bldg
 Chapman Engineering Co. (Contracting),
 Land Title bldg
 Cheyney, W. Irwin, 1035 Race
 Christie, James, 100 Rochelle av, Wiss.
 Clarke, Herbert A. (Consulting), Perry bldg
 Collins, Chas E., Drexel bldg
 Collins, Chas. W., Witherspoon bldg
 Combustion Engineering Co. (Contracting),
 Perry bldg
 Commercial Engineering Co., Witherspoon
 bldg
 Concrete Construction Co. (Contracting),
 Bailey bldg
 Cook, Chas. R. (M. E.), 150 N 6th
 Cornell, Elijah B. (M. E.), 922 N 19th
 Courtenay Construction Co. (Contracting),
 1305 Arch, Phila., Pa.
 *Cramp, Edwin S. (Superintending Engi-
 neer, Wm. Cramp & Sons)
 Cranmer, Wm. C. (Surv.), Heed bldg
 Crawford, Jos. U. (Consulting), Harrison
 bldg
 Croskey, Knowles (Mining), Drexel bldg
 Cruse, Arthur R. (M. E.), (Pres.), Land
 Title bldg
 Dallett, W. P. (M. E.), 49 N 7th
 Darlington, F. Wayne (Consulting, Mining
 & M. E.), Real Estate bldg
 *Dawes, Robert E., 514 Penn, Frankford
 De Kinder, J. J. (M. E.), Girard bldg
 Dickerman & Yeakley (M. E.), 26th &
 Dauphin
 Dietz Machine Works (M. E.), 128 Fountain
 Dillon, K. H. (M. E.), Witherspoon bldg
 Dodge & Day (Modernizing), Drexel bldg
 D'Oller Engineering Co. (M. E.), 119 S 11th
 Dravo, Doyle & Co. (M. E.), Arcade bldg
 *Drysdale, W. A. (Consulting), 415 Hale
 bldg
 Duke, Hy. T. (M. E.), Girard Trust bldg
 Dunn, Houston (Consulting), Drexel bldg
 Dyer, W. E. (Consulting M. E.), Common-
 wealth Trust bldg
 Easby, M. Ward (Consulting), 909 Crozer
 bldg
 Edgerton, Chas. (Consulting M. E.), Fidel-
 ity bldg

Edwards, L. T. Co. (M. E.), Perry bldg
 Elha Iron Mfg. Co. (Contracting), Perry
 bldg
 Elfreth, Harold D. (M. E.), 2022 N 22d
 Ellis, David M. (Mining), Provident bldg
 Ellis, Jos. D., Provident bldg
 Engineer Co. (Consulting), Fidelity Mutual
 Life bldg
 Eynon-Evans Mfg. Co. (M. E.), 15th c
 Clearfield
 Fahrleg, Ernest & Sons (Mining), Betz bldg
 Fairchild & Gilchrist (& Mining), Franklin
 bldg
 Faster Engineering Co. (Contracting), Har-
 rison bldg
 Field, Barker & Underwood (Inc.) (Con-
 tracting), Arcade bldg
 Fine & Harris, Contracting, Land Title
 bldg
 Finlay & Beled (Consulting), 130 N 12th
 Finn, O. B. (Mining), Drexel bldg
 Fisher, Jno. F. (Surveyor), 127 Walnut
 Ford, W. H. (Consulting), Arcade bldg
 Forte, H. L. (Consulting), Drexel bldg
 Frackmann, H. W. (M. E.), 1929 N 5th
 Francis Bros. & Jellett (Inc.) (Consulting),
 245 N Broad
 Francis, Isaac H., Jr. (Consulting), Com-
 monwealth Trust bldg
 Franklin & Clarke, Crozer bldg
 Frazer, Robt., 209 S 37th
 Fuller, Herbert M. (Surv.), 1525 Indiana
 Furber, Wm. Copeland (Consulting), 418
 Walnut
 Gallagher, W. L. & Co. (Contracting),
 1332a Walnut
 Garrett, Harry H., 114 N 16th
 Garrison, F. Lynwood (M. E.), Drexel bldg
 Gatzmer, Wm. C., River Front, hel Prince-
 ton av, Tacony
 Gay, Henry N (Surveyor), 204 Walnut
 Geshwind, Herbert W. (Contracting), Lip-
 pincott bldg
 Gherky, Wm. D. (Contracting), Heed bldg
 Gillette, Cassius E. (Consulting), Land
 Title bldg
 Gilman, Walter (Mining), 506 Walnut
 Gilpin, Richard (Consulting), 421 Chestnut
 Glaser Mfg. Co. (M. E.), 2733 N 6th
 Grauger, A. D. Co. (M. E.), Commonwealth
 Trust bldg
 Grantham, H. T. (M. E.), Real Estate
 Trust bldg
 Gray, Wm. S., Witherspoon bldg
 Gray's Ferry Machine Co. (Ltd.) (M. E.),
 3105 Gray's Ferry rd
 Green, Robert P. (Consulting), Stephen
 Girard bldg
 Greene, Jno. Mac D. (Contracting), Drexel
 bldg
GRISCOM-SPENCER CO. (M. E.)
 Consulting & Contracting), ft. Washing-
 ton av. (See adv. index. end of book)
 Gwilliam, Geo. T., 19th & Hamilton
 Haig, Robert (Surveyor), Phila. Bourse
 Haines, Caspar W., Arcade bldg
 Hallowell, Clifton C. (M. E.), 714 Walnut
 Halstead, David (Consulting), 3227 Frank-
 ford av
 Harrison & Schreiber, Harrison bldg
 *Hartman, John M., 227 Gowen av
 Hedden, E. J., 14 S Broad
 Herthoth, Mitchell Co. (M. E.), Girard Trust
 bldg
 Herr, Homer A. (Consulting M. E.), Com-
 monwealth Trust bldg
 Herring, Luther W. (Mining), 518 Walnut
 Hess & Barker (M. E.), 605 Sansom
 Hexamer, E. & Son, 419 Walnut
 Hibbert, Walter W. (M. E.), Hale bldg
 Hickman, Chas. D. (Consulting), 328 Chest-
 nut
 Hill, Malcolm W. Co. (Contracting), 1503
 Sansom
 Hoffmann Engineering & Constructing Co.
 (Contracting), Penna. bldg
 Hollar Co. (Contracting), 421 Chestnut
 Hollingsworth, L. (M. E.), Girard bldg
 Holt & Schober (Consulting & Contracting,
 Specialty Cold Storage, Mill & Power
 Plants), Provident bldg
 Houston, Edwin J. (Consulting), Crozer bldg
 *Howell, Edw. I. H. (Consulting), 260 Bullitt
 Hughes, Hy. B., Land Title bldg
 Humphrey, Richard L. (Consulting), 1001
 Harrison bldg
 Hunt, Robert W. & Co., 3754 Main
 Hunter, Jos. W. (Surveyor), Mutual Life
 bldg
 Janney & Darlington (Contracting), Real
 Estate Trust bldg
 Johnson, Jos. (Surveyor), 4039 Lancaster av
 Johnson, O. D. (Consulting), Land Title
 bldg
 Jones, Jere C. (Contracting), Heed bldg

Keller-Pike Co. (M. E.), 1213 Race
Kennedy, James A.
Kerrick, E. J., 328 W Horttner, Gtn.
Kitchel, Robert R. (M. E.), Laud Title bldg
Klemm, J. Geo., Jr. (Consulting), Arcade
Kley, Percy A. (Consulting), 1535 Chestnut
Kolischer, Theo. Engineering Bureau (M. E.), Bailey bldg
Kurrle, Geo. R. (Consulting), 637 Watts
*Ladd, Jas. B. (Consulting), Real Estate Trust bldg
Lance, Chas. D. (Mining), Stephen Girard bldg
Lance, Jos. P. (Mining), Stephen Girard bldg
Land, Wharton Co. (Power Plants), Penn bldg
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Merritt & Co. (M. E.), 1024 to 1028 Ridge av
Mickle-Milnor Engineering Co. (M. E.), Drexel bldg
*Mirkl, Thos. H., Jr. (Supt.), S 5th c Washington av
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Mitchell, W. K. & Co. (Contracting), Schuylkill av & Ellsworth
Molloy, James F. (Contracting), 15 E Mermaid la, c Hill
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NEWPORT—*Bryant, George H. (Principal, Townsend Industrial School)
Buffum, Wm. P., 301 Thames
Cotton, Joseph P., 201 Thames
Lawton, William H., Jr., 24 Bellevue av.
PAWTUCKET—Drowne, F. E., 82 Elm
Judson, Jno. E., 155 Main
Learned, Chas. H.
Metcalf, Arthur H. (M. E.)
Seabury, Dwight (M. E.)
Smart, H. R.
PROVIDENCE—*Almy, Darwin, 178 Allen av
Arnold & Barlow (Consulting M. E. & Patents), 425 Butler Ex
*Babblitt, George R., 182 S. Water
Ballou, H. W., Banigan bldg
*Beaman, E. A., Gordon av c Reynolds
Boardman, Chas. W. (Consulting M. E.), 86 Weybosset
Burlingame, Edwin A., 359 Brook
Burt, A. H. (M. E.), 16 Calender
Chase, Charles F., 75 Westminster
Clapp Otis F. (City), City Hall
Cruikshank, D. B. (Consulting), 33 Eddy
Evans, Tbos. (Consulting), 75 Westminster
Gray, Saml. M. (Consulting, Municipal & Sanitary), Banigan hldg
Hannigan, Chas. T. (M. E., Drawings & Patents), Banigan bldg
Hurley, D. & Co. (Consulting), 17 Custom House
Jenks, Richard P. (Consulting M. E.), Banigan bldg
*Johnson, Henry J. (Consulting), 28 Maple
Latham, Fred. J., 146 Westminster
Latbam, Jos. A. (& Surveyor), 87 Weybosset
Lewis, W. B. (Consulting), Banigan bldg
Makepeace, C. R. & Co. (M. E.), 429 Butler Ex.
Manton, Joseph P. (M. E.), 105 Wash'n
Paine, Wm. H. (Consulting M. E.), Industrial Trust bldg
Pleczentkowski, A. G. (M. E.), 17 Custom House
Remington, Geo. H. & Co. (M. E. & Patent Solicitor), 86 Weybosset
Sarle, O. Perry (Consulting, Water Supply, Drainage, etc.), 146 Westminster
Schofield, Mark W., 29 Exchange
Shedd, Edw. W., 146 Westminster
Shedd, J. Herbert (Consulting), 146 Westminster
*Sheldon, F. P. & Co. (Mechanical, Mill, Hydraulic & Electrical Engineers), 49 Westminster
Snow, Sylvester M. (Consulting M. E.), 257 Temple, Wm. H. G., 75 Westminster
Tingley, Richard H. Co. (Consulting), 75 Westminster
Turner, S. Charles (M. E.), 114 W Exchange
Waterman, Frank E. (& Surveyor), 86 Weybosset
Weston, Edmund B. (Consulting, Water Supply, Filtration, etc.), 86 Weybosset
Whipple, Eugene B. (Consulting M. E.), 75 Westminster
WARRREN—Corbett & Borden
WARWICK—Barton, H. B.
WESTERY—Whale, Earl C.
WOONSOCKET—Ellis, J. W. & Son, 160 Main
Kent, Willard (& Surveyor), Longley bldg
Metcalf, John (M. E.)
Mills, Frank H. (City)
Parker, Chas. F.
Spaulding, George W. (M. E.)

SOUTH CAROLINA.

ABBEVILLE—Minshall, Frederic (Consulting & Contracting for Water Supply, Water Power, Sewerage, Electric Lighting, Concrete Work, etc.)
ANDERSON—Sarre, C. G
Stribling, J. V.
BLACKVILLE—Mixon & Co.

CHARLESTON—Dingle, J. H. (City Surveyor).
Simons-Mayrant Co., 16 Broad City Hall
Sloan, Erie (M. E.)
Todd, A. W., 39 Broad
COLUMBIA—Gibbs, W. H. & Co. (M. E.), 804 Gervais
La Motte, A. Gamewell, 1521 Main
McMasters, T. (M. E.), 1429 Laurel
Miller, D. B. (City)
Niernsee, Frank, 1429 Main
Shaud Engineering Co. (Consulting M. E.)
Stoney, S. Reed
*Whaley & Co. (& M. E.), 1328 Main
GREENVILLE—Slirrine, J. E. (Consulting C. E. & M. E.)
ORANGEBURG—Johannen, Henry H.
ROCKHILL—Roddey & Whitner
SPARTANBURG—Bryant, Fred. L. (Consulting, Ing & M. E.)
Howe, W. B. W.
Ladshaw & Ladsbaw (Consulting, Civil, etc.)
Peltce, F. A.

SOUTH DAKOTA.

ABERDEEN—Washburn, D. C.
DEADWOOD—Ames, G. P.
Black Hills Eng. Co.
Harterling, Jas.
Hickox, J. R.
Peck, Frank
Phillips, Alvin & Co.
Vincent, H. S.
ELK POINT—Vinson, W. M.
FLANDREAU—Harza, Le Roy
HOT SPRINGS—Utter, A. H.
HURON—Fessenden, G. A.
LEAD—Crick, J. P.
Gldley, A. B.
Mitchell, E. W.
Schnitzel & Moody
Walsh, W. M.
MADISON—Gregor, John
MILBANK—Crowl, W. S.
MITCHELL—Greene, Israel
RAPID CITY—Willis, Myron
SIOUX FALLS—Howe, S. B.
STURGIS—Ladd, G. W.
TYNDALL—Young, J. C.
VERMILION—Gundersen, Carl
WATER TOWN—Carpenter, G. W.
WEBSTER—Alley, Josephus
YANKTON—Bates, C. H.
Palmer, E. D. (Consulting, Bridges, Foundations, etc.)
Van Antwerp, E. H.

TENNESSEE.

BRISTOL—Aldrich, Arthur C.
Fay, Albert H. (Mining), Y. M. C. A.
Lockhart, J. W. bldg
Mitchell, W. L.
CHATTANOOGA—Cushman & Farleigh, Love-Dietz, O. A., 817 Georgia av man bldg
Gnild & Co. (Consulting & M. E.), Key
Gustafson Mfg. Co. (M. E.) stone bldg
Hooke, Robt. (City)
Klonne, J. C., 619 Walnut
Moe, S. B., Times bldg
Thompson, Benjamin, Sou. Ry. office
CLARKSVILLE—Marble, J. H. (City)
GREENVILLE—Rhea, J. P.
JACKSON—Campbell, F. W.
Farrar, H. P.
Lancaster, S. C. (City), 225 Baltimore
Mercer, J. W.
Merriwether, David
JOHNSON CITY—Molesworth, A. N.
KNOXVILLE—Crozer, W. C., 1129 N 4th
Metcalf, G. W., 610 S Gay
Park, W. A. (City), City Hall
Phillips, F. G., 1002 N B'way
Ruof, Wendell (M. E.)
Waring, Charles, 308 W Clinch av
Wilson, Elwood J. (Mining), 712 N 4th
McMINNVILLE—Hill, I. C.
Rowan, Stokey D. (City)
MEMPHIS—Ayers, W. E., Randolph bldg
Baker, Jos. M.
Brock, D. M., U. S. Eng. Office
Cibighzola, A. A., Scimitar bldg
Cook, Jas. B., Randolph bldg
Erion, R. N. (M. E.), 253 McLean av
Ferguson, J. T., 14 S Main
Ferree, H. G., 127 Madison av
Gardner, Howe (& Consulting & Contracting), 51 Dr. D. T. Porter bldg
Humphreys, J. H., 127 Madison
Le Vasseur & De Beughem (Mining), Ran-Moore, A. H., Randolph hldg dolph bldg
Omberg, J. A., Jr., Goodwyn Inst. bldg
Pharr, H. N., Randolph bldg
Prontt, F. G. (Consulting), Randolph bldg
Reinhold, J. W. (Consulting), Randolph bldg
Smith, Vernon H., 106 McKellar av
Taylor, Wm. N., Memphis Machine Works
Walker, S. G., Court House

Watkins, Wm. S., 34 N Dunlap
Weatherford, J. H. (City)
MURFREESBORO—Maney, Newton C.
NASHVILLE—Blackie, G. F., 1000 B'way
*Brown, Chas. S. (Prof. of Mechanical Engineering, Vanderbilt Univ.), Vanderbilt Campus
Engineering Ass'n of the South, 2 Berry
Foster & Creighton, 3 Berry blk
Howard-Motz & Co. (M. E.), The Arcade
Leftwich, W. M. Co. (Contracting), Cole bldg
McDonald, Hunter, N. C. & St. L. Ry.
Smith, F. R. R., 411½ Union
Southgate, W. W. & Son, 407½ Union
Wilson, Chas. B. (Engr. Cumberland River bridges)
NEW MARKET—Bartlett, John H. (Zinc)
OLIVER SPRINGS—Butler, M. D. F.
RIPLEY—Gudger, M. W.
ROCKWOOD—Sylvester, Geo. E. (Mining & C. E.)
SOUTH PITTSBURG—Clute, F. P.

TEXAS.

ATHENS—Meredith, J. T.
AUSTIN—Andrewartha, John
Corwin, Dennis, Temporary Capitol bldg
Gildart, Frank, 701 Congress av
McFall, J. K., 95 East av
Matthews, S. P., City Hall
Pinckney, T. F., Temporary Capitol bldg
Wallace, John E., Court House
Wyard, J. R., 714 Congress av
BAIRD—Haley, M. R.
BALLINGER—Blanchard, C. C. F.
Dickinson, H. E.
BASTROP—Moncure, Cassius L.
BEEVILLE—Fenner, R. W.
BELLVILLE—Cumings, George S.
BELTON—Bigham, R. P.
BIG SPRINGS—Boydston, Benjamin
Cowan, S. H.
BRENNHAM—Von Biberstein, H. B.
BROWNSVILLE—Cocke, J. I.
BROWNWOOD—McIntosh, W. A.
BRYAN—Mitchell, J. P.
BURNET—Chamberlain, T. A.
Moses, E. J.
CALDWELL—Dalrymple, J. G.
COLEMAN—McElrath, J. A.
COLLEGE STATION—*Whitlock, R. H. (Prof. Mechanical Engineering, Texas State Agr'l Col.)
COLORADO—Earnest, C. H.
Holt, C. W.
Looney, R. H.
Shepherd, J. L.
COLUMBUS—Jackson, D. W.
COMANCHE—Armstrong, R. G.
Holman, J. A.
COOPER—Stratton, T. L.
CORPUS CHRISTI—Blucher, C. F. H.
CROCKETT—Broxson, Enoch L.
CUERO—Schleicher, Gustav
DALLAS—Briggs Machinery & Supply Co. (M. E.), 191 Elm
Brown, C. E., 204 Main
Hopkins, Louis H., 237 Main
Jones, Fred A., Scollard bldg
Lane, C. R. (M. E.), 350 Elm
Thatcher, J. S., 301 Main
Young & Heintz (M. E.), 181 Elm
DEL RIO—Pierce, J. K.
DENISON—McWillie, Richard L. (City)
DENTON—Pierce, W. H.
EL PASO—Brodie, Walter M. (Mining)
Canby, R. C. (Consulting)
Cook, Wm. H. (Consulting, Mining)
De Vore, E. H. (Mining)
Fishback, Martin (Consulting Mining)
Parker, A. H.
Parker & Parker (Mining & Consulting)
Rice, John A. (Mining), Mills bldg
Tomlinson & Norton (Consulting & Mining) Trust bldg
Wimberly, George C. (City)
FORNEY—Lewis, P. M.
FORT DAVIS—Patterson, H. M.
FORT WORTH—Baker, Brookes (Depy. County Surveyor)
Darter, Jno. H., 711 Main
Dickson, H. M. (Asst. City Engineer), City Hall
Goodfellow, Jno. J. (County Surveyor), Court House
Hall, J. M. (City), 1300 1-2 N Main, N. Ft.
Hawley, J. R. (City), City Hall
Zane-Cattl, 1005 Calhoun
FREDERICKSBURG—Schuchardt, J.
GAINESVILLE—Brozelton, S. J.
Hulen, Harvey
GALVESTON—Anderson, Thos. J. (Consulting), 2118 Strand
Felt, C. F. W. (Santa Fe R. R.), Santa Fe
Hartrick, E. M., Trust bldg
Hoxle, A. (Co. Surveyor), Court House

Luttrell, R. W., 709 Tremont
 Riche, C. S., Trust bldg
 Slas, C. A. (& City Engineer), 2205 Strand
 Temple, B. M. (City), Court House
 Wilson, Henry T., 1419 B'way
 Young & Cohen (M. E.), 2409 P. O.
GATESVILLE—Graves, C. L.
GEORGETOWN—Battalie, I. F.
GOLDTHWAITE—Pesley, George
GREENVILLE—Morgan, J. H.
HALLETTSVILLE—Ballard, James
HEMPSTEAD—Elliott, B. F.
HENDERSON—Stone, W. D.
 Wooley, J. M.
HENRIETTA—Watkins, R. W.
HOUSTON—Anderson, W. E., 914½ Franklin
 Berry, James H., Converse bldg
 Bradburn, Wm. (County), Court House
 Davis, James O., 1016½ Congress av.
 Delery, W. S. & Co., Cotton Exchange
 Dormant, Frank L. (City), City Hall
 Gillespie, J. J., Court House
 Jones, Fred. A. (Consulting M. E.), Binz
 Lehaus, R. A., 1301 Congress av bldg
 Matthews, Saml. P., 305 1-2 Main
 McGregor, Flint, Mason bldg
 Maxcy, John W. (C. E.)
 Miller, I. Austin, 1015 1-2 Preston av
 Packard, Saml. E., 706 Rusk av
 Pennington, Harry, Lumberman's Nat.
 Bank bldg.
 Stimson, Arthur E., 2107 Gano
 Waldo, Wilmer, Binz bldg
 Whitty, Patrick, 317 1-2 Main
 Wise, A. J., 915 1-2 Congress av
KAUFMAN—Barnes, W. H.
 Kyser, H. W.
KERRVILLE—Doris, J. H.
LA GRANGE—Vogt, A.
LAMPASAS—Brown, Ephraim
LAREDO—De la Garzo, Cayetano
 Foster, Arthur
LONGVIEW—Terry, E. S.
LUFKIN—McCarthy, P. A. & Sons (Consult-
 ing Civil & Electric Power Plants)
 McCarthy, Starnes & Co (Consulting)
MARSHALL—Bradbury, William (M. E.)
McKINNEY—Byrne & Wilson.
 Noyes, C. W.
MARLIN—Hunnentt, R. S.
MASON—Bierschwale, Charles
MERIDIAN—Weeks, J. N.
MEXIA—Roberts, H. M.
MINEOLA—Cowan, G. W.
 Giles, W. M.
 Newson, J. H.
MINERAL WELLS—Berry, H. M.
MOUNT PLEASANT—Dillabanty, C. L.
 Riddle, I. R.
 Riddle, J. G.
 Turner, J. C.
NACOGDOCHES—Nelson, A. A.
ORANGE—Pinkston, J. A. (City)
PALESTINE—Hanks, J. S.
PARIS—Davis, E. E.
 Wright, J. H.
PEARSALL—Curtiss, A. L.
PITTSBURG—Fredric, W. W.
RIOGRANDE—Lopes, Pedro
ROCKPORT—Reeves, T. B.
ROCKWALL—Simpson, W. H. H.
SAN ANTONIO—Locke, W. M., 115 Fannin
 Smith, Charles P. & Co., 417 Navarro
 Thomson, Edw. (Consulting Mining), Mac-
 Welsh, Norval J. (Mining) kay bldg
 Wyschetzki, A., 307 Matagorda
SAN DIEGO—Dix, J. J.
SAN MARCOS—Groos, Otto
SEGUIN—Ersikine, A. M.
SHERMAN—Hopson, Joseph P.
 Thiessen, H. J. J. (Specialty Cotton Seed
STEPHENVILLE—Jackson, M. L. Oil Mills)
SULPHUR SPRINGS—Banks, J. B.
 Brashear, W. S.
 Gilbert, J. L.
 Tomlinson, S. G.
TERRELL—Terrell, J. L.
TEXARKANA—Hodler, P. M.
 Stewart, Sidney, City Hall
TYLER—Ellis, Ira
VERNON—Nahers, J. A.
VICTORIA—Ward, J. W.
WACO—Goddard, Andrew
 Gurley, G. B.
WEATHERFORD—Bassett, J. M.
 Carroll, Nicholas
 Weltzell, R. S.
 Winston, J. M.
WILLS POINT—Gibson, W. W.
 Greer, W. J.
 McKain, T. J.
 Meredith, A. W.

UTAH.

BINGHAM CANYON—Gates, Louis S. (Min-
 ing)
OGDEN—Bostaph, W. H., 1331 25th
 Jenkins, Washington, Utah Loan & Trnst
 Maguire, Don M. E. (Mining) Co. bldg
 Spencer, L. B. (Consulting), Eccles bldg.
PROVO CITY—Stewart & Sons (Mining)
 Bates, Mowry (Mining)
SALT LAKE CITY—Breckon & Davis, 117 Com-
 Brown & Brooks, 49 S Main mercial blk
 Bryant, Walter C.
 Butters, Chas. (Mining), Dooly bldg
 Culmer, Chas. H. L. (M. E.), McCormick
 Culmer, W. F. (Mining), Culmet blk blk
 Daggett, Ellsworth (Mining), 49 S Main
 Dunn, Geo. E. (Mining), Dooly blk.
 Fitzbng, Henry, 47 East 1st South
 Forrester, Robert (Mining), Dooly bldg
 Gemmell, R. C., Dooly bldg
 Gibbs, G. A., 137 N West Temple
 Gorlihski, Robt. (Mining), 38 Central blk
 Hanson, A. P., 26 Eagle blk
 Horne, H. W., Whittington bldg
 Jennings, E. P. (Mining), P. O. Box 841
 Jones & Jacobs, 49 S Main
 Joseph, H. S., Progress bldg
 Kelsey, Louis C. (City)
 Le Probon, E. M., Atlas blk
 Madge, Wm. C. (Consulting), Dooly glk
 McCartney, H. M., 161 S Main
 Mathis, T. S. (Mining), 49 S Main
 Molson, C. A. (Mining), Dooly blk.
 Neill, Jas. W. (Mining), P. O. Box 1164
 Nissen, Peter (County Surveyor), 121 S State
 Ogleshy, M. L. (Mining), David Keith bldg
 Overstrom, Gustave A. (Consulting) (Uni-
 versity of Utah)
 Palmer, Burton & Anderson (Mining), 47
 Board of Trade bldg
 Paul, S. J., Progress bldg
 Rainsford, Ralph H. (Mining), American
 S. & Ref. Co.
 Robinson, G. H. (Mining), Walker Bros. B'k
 Rollfing, D. P. (Consulting), Atlas bldg bldg
 Smith, J. F., Jr., 49 S Main
 Snow, G. W. (Mining), Atlas blk
 Sterling, Rob't, Whittington blk
 Strange, V. P., Whittington blk
 Sussman, Otto (Mining), Atlas Block
 Trent, L. C. & S. V., S. West Temple
 Wilder, E. B. (Mining), 159 S Main
 Wilkes, C. S., City & County bldg
 Wilkes, Edmund, Atlas blk
 Wilson, J. W. (Mining), 237 6th, E
 Yonng, O. R., McCormick bldg
 Zabinski, Edw. R. (Mining), University
 Club

VERMONT.

BARRE—Currier, Chas. S. (City)
 Smith & Walker
BENNINGTON—Beach, Chas. S., 745 Main
 Rice, Edward
 Sanborn, I. H.
 *Scott, Olin (Prop., Bennington Machine
 Works)
BRADFORD—McDuffee, Henry
BRATTLEBORO—Crowell, Christie B.
 Johnson, Alanson O. (M. E.)
BURLINGTON—Barbour, V. G., 96 N Prospect
 Crandall, Frank H. (City), City Hall
 Dow, A. R., 234 Pearl
 McIntosh, H. M., City Market bldg
 Sinclair, Frank O., 174 Main
 Woodbury, Charles L., 37 N Prospect
MONTPELIER—Smith & Walker
NORTHFIELD—Andrews, G. R.
PITTSFORD—Hasseltine, H. A.
RUTLAND—Chappell, Thos. F., 14 Clement bldg
 Eggleston, W. W., 23 N Main
 Grimes, E. L., 9 Clement bldg
 Grover, Arthur C. (City)
 Lincoln Iron Works (M. E.)
 Ross, Geo., 1 Merchant Row
 Roy, L. E., office in depot
 Wooster, Orlando, 18 Church
ST. ALBANS—Dewart, F. H.
 Mason, Marshall
 Warren, H. A.
ST. JOHNSBURY—Perdham, J. M.
WHITE RIVER JUNCTION—Nott, H. L.
WINOOSKI—Nash, V. K. (City) (M. E.)

VIRGINIA.

ALEXANDRIA—Dunn, E. C.
 Howell, D. J.
REDFORD CITY—Moseby, S. B. & Co.
BERKLEY—Phelps, Richard M.
BLACKSBURG—*Randolph, Lingam Strother
 (Prof. Mechanical Engineering, Va. Agr'l
 & Mech'l College)
BUENA VISTA—McDowell, W. G.
CHARLOTTSVILLE—*Thornton, Wm. M. (Prof.
 of Applied Mathematics, Univ. of Va.)

DANVILLE—Ballou, C. A. (City)
FRONT ROYAL—Roy, G. E.
HAMPTON—Armstrong, Richard
 Chambers, Girard
 Semple, Edw. A.
IVY DEPOT—*Wood, Joseph L.
LEXINGTON—Hutton Engineering Co.
 McDowell, W. G.
LYNCHBURG—*Gleaves, R. Taylor (Consult-
 ing)
 Lewis, J. M. B., 211 9th
 Lewis & Burnham (Consulting)
 Shaner, H. (City)
NEWPORT NEWS—Edmonds, A. B. (County
 Surveyor)
 *Gray, John W., P O Box 703
 Pierce, R. T., Jr.
 Wagner, Adolph
 Warwick Machine Co. (M. E.)
NORFOLK—Atlantic Engineering & Const.
 Corp'n (Civil Consulting), Nat'l Bank
 of Commerce bldg
 Benson & Drummond, Paul-Gale-Greenwood
 Blech, E. S., Atlantic Trust bldg bldg
 Brooke, Wm. T. (City), City Market bldg.
 Columbia Construction Co. (Contracting),
 Day, Samuel F., Law bldg Law bldg
 Foreman, E. C., 272 Main
 Freeman, Arthur C., Jr. (Consulting), Bank
 of Commerce bldg
 Gwatbney Engineering Co. (Contracting).
 Atlantic Trust bldg
 Haenselman, Ferdinand, Lowenburg bldg
 Land, John T., 272 Main
 Murray, W. D. & Co. (Contracting), Citi-
 zens Bank bldg
 Neff & Thompson (M. E.), Atlantic Trust
 bldg
 Petrie, Chas. F. (& Consulting), 234 Main
 Phelps, Richard M., 26 Clinton
 Riddle, James, Board of Trade bldg
 Smith, Edw. G., 346 Bute
 Taylor Engine Works (M. E.), 31 Division
PETERSBURG—Dunn, Thomas O., 140 High
 Rives, Thos. F.
 Hayes, John W. (C. E.)
POCAHONTAS—Graham & Keller (C. E. &
 Mining)
PORTSMOUTH—Cassell, H. C., 701 Rose.
 Scottville
RICHMOND—Anderson, Dorsey C. (Consult-
 ing), 8-12 N 9th
 *Archer, Edw. R. (Chief Eng'r, Tredegar
 Co. Iron Works)
 Beck, Henry P., City Hall
 Blenner, Benj. A. (M. E.), 18 N 7th
 Burgwyn, C. P. E., 917 Bank
 *Delaney, Alex. (Supt. Pumping Machinery,
 Richmond Water Works)
 Frazier, Harry (Consulting), American
 Nat'l Bank bldg
 Froehling & Robertson (Mining), Ebel bldg
 Heaton, Edw. J., 12 N 9th
 Johnston, J. Ambler (Consulting), Bank of
 Richmond bldg
 Mankin Construction Co., 812 Main
 Mitchell & Mayo (Consulting), 619 E Main
 Morrison, Hngb S. (M. E.), Dock, nr. 18th
 Myers, E. T. D., Jr. (Consulting), Mutual
 Assurance Society bldg
 Noland & Baskervill, Chamber of Com. bldg
 Richmond Engineering Co. (Consulting), 8-
 12 S 9th
 Roelker, Carl J. (Consulting M. E.), State
 Bank bldg
 Scarborough, F. W. (Consulting), 816 Mu-
 tual bldg
 Trafford, Edw'd W. (Consulting), Chamber
 of Commerce bldg
 Tyler, John, Jr., 204 4th av
ROANOKE—Flickwir, D. W.
 Hancke, J. E. M. (Consulting)
 *Hunter, Jos. L. (Consulting M. E.), 913
 Melwaine, Archibald G. Franklin rd
 Mosby, S. B.
 Wentworth, Charles C. (M. E.), 18 Day av.
 Wingate, J. H. (City) S W
SALEM—Corbett, Edw. Co. (M. E.)
SALTVILLE—*Mount, Wm. Dye (Gen'l Supt.,
 Mathieson Alkali Works)
STAUNTON—Collins & Hackett (M. E.)
 Harrison, Carter H. (City)

WASHINGTON.

ABERDEEN—Jackson, R. S.
CHEHALIS—Meloy, F. E.
DAVENPORT—Estby, Carl
 Rockhold, Jeremiah
DAYTON—Patrick, John
ELLENSBURG—Anderson, E. O.
EVERETT—Rirney, J. F.
 Majors, B. O.
 Powell, O. L.
 Springer, L. A.
 Springer, S. D.
HOQUIAM—Bnrrows, O. P.
MONTESANO—Robertson, Geo.

MOUNT VERNON—Meehan, J. W.
NORTH YAKIMA—Arnold, Syd. W.
OLYMPIA—Brown, F. J.
Henry, D. S. B.
Lemon, Millard
PORT ANGELIS—Blackwood, Alfred
Fitz, H. E.
Gehrke, E. R.
Ware, W. J.
PORT TOWNSEND—Phillips, J. C.
REPUBLIC—Portman, N. J. H.
Hammond, T. M., Jr.
Warner, E. H.
RITZVILLE—Koch, J. J.
SEATTLE—Adams & Brooks (M. E.), Coleman bldg

Anderson, Chas. M. Engineering Co., 707 Belmont pl
Barnes & Co. (Consulting C. E. & M. E.), Starr-Boyd bldg
Bellamy, H. R. (Consulting), 455 13th av
Bowerman, J. W. (M. E.), New York bldg
Bryan, A. E. (Mining), 813 Bellevue
Buel, O. M. (Mining), 2446 E Valley
Chapman, G. W., 723 19th av
Coe & Noster, Burke blk
Colby, C. W. (Consulting M. E.) (Hallidie Machinery Co.), 315 S 2d av
Collins, C. B. (Consulting), Globe blk
Collins, Glenville A. (& Mining), Mehlnhorn blk

Cotterill & Whitworth, N. Y. blk
Cummings, Edw. W. (Consulting), Maynard Des Grange, J. C., 724 21st av hldg
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Hall & Kimball (Rubber & Paper Mills, etc.),
101 Tremont, Boston, Mass.
Hardy, Geo. F. (Paper Mills, etc.), 309 B'way,
New York
Henry, William Thomas, 30 Borden blk, Fall
Herrick, H. A., Pawtucket, R. I. River, Mass
Hill, Nathaniel, 228 Worthen, Lowell, Mass.
Hinds, Fred S., Essex bldg, Boston, Mass.
Holt & Schober, Provident bldg, Phila., Pa.
Hyde, Karl H., Attleboro, Mass.
Insley Iron Works (The), Indianapolis, Ind.
Jones, E. D. & Sons Co., Pittsfield, Mass.
Kelser-Van Leer Co., Bloomington, Ill.
Kent, Willard, Longley bldg, Woonsocket, R. I.
Kitfield, Edw. H., 53 State, Boston, Mass.
Kops, J. de Bruyn, Savannah, Ga.
Ladshaw & Ladshaw, Spartansburg, S. C.
Lambert & Brooks, 27 Artizan, New Haven
Conn
Leach, Geo., 333 Butler Ex., Providence, R. I.
Lockwood, Greene & Co., 93 Federal, Boston
Main, C. T., 45 Milk, Boston, Mass.
Makepeace, C. R. & Co., 429 Butler Exch.,
Providence, R. I.
Marvel, E. I., 81 Bedford, Fall River, Mass.
Moulton, H. L., 1215 Filbert, Phila., Pa.

Newhall, Geo. M. Engineering Co. (Ltd.) (Paper
& Pulp Mills, Sugar Refineries, Cement
Plants, etc.), 136 S 4th, Phila., Pa., & 43
Cedar, New York

Osborn Engineering Co., Osborn bldg, Cleve-
land, O., & Land Title bldg, Phila., Pa.
Praray, Chas. A. M. & Co., Banigan bldg,
Providence, R. I.

Pride, Chas. B., Appleton, Wis.
Robbins, O. H., Charlotte, N. C.
Sawyer, Edw., 60 Congress, Boston, Mass.
Seabury, Dwight, 12 East av, Pawtucket, R. I.
Shand & Lafaye, Columbia, S. C.
Sheldon, Frank P. & Co., 49 Westminster, Prov-
idence, R. I.

Slirrine, J. E., Greenville, S. C.
Smith, Horace H., Ford bldg, Boston, Mass.,
& Lawrence, Mass.

Snow & Humphreys, 85 Water, Boston, Mass.
Spackman, Henry S., Engineering Co., 42 N.
16th, Philadelphia, Pa.

Spaulding, Geo. W., Woonsocket, R. I.
Sperry & Sellers Co., 82 Church, New Haven,
Conn.

Stebbing, W. L. (Hydraulic Mill Work,
Modernizing, Inspecting, Supervising, Heat-
ing & Ventilating, etc.), Monadnock blk,
Chicago, Ill.

Tingley, Blch. H., 27 William, New York

Tower, D. H. & Son, Dalton, Mass.
Tracy Engineering Co., 1647 Page, San Fran-
cisco, Cal.

Twiggs Engineering & Construction Co., Leonard
bldg, Augusta, Ga.

Walker, A. F., Austell bldg, Atlanta, Ga.
Wallace, Jos. H. & Co., 5 Beekman, New York

Washburn, A. H., Charlotte, N. C.
Whaley & Co., Tremont bldg, Boston, Mass.

Wilder & Davis, Manhattan bldg, Chicago, Ill.

Wolf, Otto C. (& Brewery), 1025 Arch., Phila-
delphia, Pa.

Engineers (Mining)

(See names in Engineers, Civil, Mechanical &
Mining, marked Mining between their
names and addresses)

Engineers (Modernizing)

Dodge & Day (Of Power & Manufacturing
Plants), Drexel bldg, Phila., Pa.
Emerson Co., 30 Church, New York
Farr & Van Winkle, 160 5th av, New York
Raeder & Wood (Plant Design, Construction &
Equipment), Great Northern bldg, Chicago,
Ill.

Engineers (Reinforced Concrete)

(See Concrete Steel Construction, Reinforced)

Engineers (Sanitary)

Adams, Henry (Consulting), Calvert bldg,
Baltimore, Md.
Albright & Mebus, 908 Land Title bldg, Phila.,
Pa.
Allen & Farrington, Syracuse, N. Y.
Alvord, John W., Hartford bldg, Chicago, Ill.
Ashley, Burton J., 6315 Normal av, Chicago,
Ill.

Bacterial Sewer Purification Co., 149 B'way,
New York

Barbour, Benj. F. P. & Elec. Co., Birmingham,
Ala.

Baumelster, A., 2 Palmer, Cambridge, Mass.
Beach, Henry T., City Hall, Syracuse, N. Y.

Beil & Mellish, Eagle blk, Bloomington, Ill.
Blake & Symonds, 8 Beacon, Boston, Mass.

Bowditch, Ernest W., 60 Devonshire, Boston,
Mass.

Bradbury, E. G. (Consulting), 85 N High, Co-
lumbus, O.

Brown, Chas. Carroll, Commercial Club bldg,
Indianapolis, Ind.

Building & Sanitary Inspection Co., 56 Maiden
la, New York

Burns & McDonnell, Scarrlitt bldg, Kansas City,
Mo.

Cameron, Septic Tank Co., 812 Monadnock blk
Chicago, Ill.

Cappelen, F. W., Oneida blk, Minneapolis, Minn.

Cary & Roemer, Times bldg, New York

Chapin, L. E., Canton, O.

Chase, Chas. F., 75 Westminster, Providence,
R. I.

Christian G. L., Yonkers, N. Y.

City-Wastes Disposal Co., 156 5th av, New
York

Coffin, Freeman Co., 53 State, Boston, Mass.

Colby & Baker, Lincoln Trust bldg, St. Louis,
Mo.

COLE, JOHN A., 1585 Old Colony
bldg, Chicago, Ill.

Cook, J. D., Toledo, O.

Darling, Oscar, 21 Park row, New York

Darrach, Chas. G., Land Title bldg, Phila-
delphia, Pa.

Dickinson, Henri D. (Consulting), 123 E 23d, New York

Dudley, Arthur, Manchester, N. H.
Edsworth & Kirkpatrick, Holyoke, Mass.
Ewing, Wm. B., 1706 Marquette bldg, Chicago, Ill.

Flad, Edw., Fullerton bldg, St. Louis, Mo.
Fuentes, Jas. H., 140 Nassau, New York
Fuller, Frank L., 12 Pearl, Boston, Mass.
Fuller, Geo. W., 170 B'way, New York

Gannett, C. H., 53 State, Boston, Mass.
Gerhard, Wm. P., 33 Union sq W, New York
Goss, C. G. H., Martindale, Ind.
Gray, Saml. M., Bunigan bldg, Providence, R. I.
Guthrie & Diehl, Ellcott sq, Buffalo, N. Y.
Hawes, Louis E., Tremont bldg, Boston, Mass.
Hazen, Allen, St. Paul bldg, New York
Hering & Fuller (Sewerage & Sewage Disposal), 170 B'way, New York

Hill, Geo., 12 W 40th, New York
Hill, Quick & Allen, Equitable bldg, Baltimore, Md.
Iowa Engineering Co., Clinton, Ia.
Jeup & Moore, Indiana Trust bldg, Indianapolis, Ind.

Kiersted, Wynkoop, Water Works bldg, Kansas
Layman, E. F., 32 E 3d, Cinn., O. City, Mo.
Lloyd, Percival M., 39 Market, Poughkeepsie, N. Y., & 109 Lexington av, New York

Longyear, Orson C. (Consulting), Kingston, N. Y.
Loweth, Chas. F., 1st Nat'l Bank bldg, St. Paul, Minn.

Ludlow, J. D., Winston Salem, N. C.
McClellan, Dodge, Madison, Wis.
McClintock, John N., 89 State, Boston, Mass.
McClintock & Woodfall, 15 Court sq, Boston, Mass.

McMurray, Eugene A., 22 Clinton, Newark, N.J.
Mann, T. W., Holyoke, Mass.
Merrill, Geo. N. & Co., 292 Main, Springfield, Mass.

Metcalf & Prescott, 14 Beacon, Boston, Mass.
Meyers, Chas. B., 1 Union sq, W, New York
Morgan, Geo. C., 169 Jackson houl, Chicago, Ill.

Morgan, W. & Co., 330 Market, San Francisco, Cal.

Municipal Engineering & Contracting Co. (Consulting), 90 West, New York

O'Flaherty, Danl. & Son, 708 Wall, Kansas City, Mo.

Optenberg & Sonneman, Sheboygan, Wis.

Phillips, Hiram, 301 City Hall, St. Louis, Mo.
Pierce, Richardson & Neller (Consulting), Manhattan bldg, Chicago, Ill.

Plerson, Geo. S., Kalamazoo, Mich.

Potter, Alex., 143 Liberty, New York
Rafter, Geo. W., Rochester, N. Y.

Rice, Jno. A., 79 Milk, Boston, Mass.
Riggs & Sherman Co. (Consulting), The Nasby, Toledo, O.

Sarle, O. Perry, 142 Westminster, Providence, R. I.

Shields, W. S., 140 Dearborn, Chicago, Ill.

Stanley, H. J., City Hall, Cinn., O.
Stewart, Jas. A., Traction bldg, Cincinnati, O.

Stickney, G. F., Paducah, Ky.
Stoddard, G. F., 199 Chestnut, Lynn, Mass.

Strong, Wilson B., Atlanta bldg, Washington, D. C.

Sutton, Frank (Consulting), 91 Wall, New York

Todd, Hugh, 146 Spring, Los Angeles, Cal.

Tucker, Wm. C., 156 5th av, New York
Van Emburgh, H. C., Plainfield, N. J.

Vermeule, Cornelius C., 203 B'way, N. Y.
Wade, Frank D., Sheldon, Ia.

Wardle & Yeager, Cedar Rapids, Iowa
Waring, Chapman & Farquhar, 874 B'way, New York

Warriner, Thos. R., Cedar Rapids, Ind.

Webster, Albert L. (Consulting), 82 Wall, New York

Weston, Edmund B., 86 Weybosset, Providence, R. I.

Wheeler, Wm., 14 Beacon, Boston, Mass.
Whittier, Bartlett & Co., 59 Main, Buffalo, N. Y.

Williams, Proctor & Potts (Inc.), 17 Battery pl, New York

Wilkins, W. G. Co., 200 9th, Pittsburg, Pa.
Wilson, Harris, & Richards, Drexel bldg, Phila., Pa.

Winters, Edw. E. (Sewage Disposal), Bensen bldg, Albany, N. Y.

Wise & Watson, Passaic, N. J.
Witmer, J. F., 64 Ashland, Buffalo, N. Y.

Wood, Frank W., Monadnock blk, Chicago, Ill.
Woodbridge, S. Homer, 420 Boylston, Boston, Mass.

Engineers' Bulletin

Handlan-Buck Mfg. Co. (Kemp's), 212 N 3d, St. Louis, Mo.

Engineers' Supplies, Etc.

(See the Specific Article Wanted)

(For Dealers in Engineers' Specialties see Mill & Factory Supplies; also Steam Fitters' Supplies)

*Engine & Motor Parts

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. Index, end of book)

Engines

NOTE—In order to avoid duplications when addressing Engine Mfrs., address "Engines (Automobile)," "Engines (Steam)" and "Engines (Gas & Gasoline)" only, as all other Engine Lists are duplications of the above.

Engines (Air)

(See Engines, Compressed Air)

Engines (Alcohol)

Badger, Gas. & Gasoline Engine Co., Kansas City, Kan.

Callahan, W. P. & Co., 901 E. 3d, Dayton, O.
Challenge Co., Batavia, Ill.

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl, Chicago, Ill. (See adv. index, end of book)

MARINE ENGINE & MACHINE CO., 230 W 13th, New York; Works: Harrison N. J. (See adv. index & branch offices, end of book)

New-Way Motor Co. ("New-Way" Air Cooled, Lansing, Mich)

Temple Pump Co. ("Master Workman," One-Cylinder, Portable & Stationary), 15th & Meagher, Chicago, Ill.

Engines (Artesian Well)

(See Pumps, Artesian Well)

Engines (Automatic)

(See Engines (Steam) with the word "Automatic," Etc., following Name)

Engines (Automobile)

Albrecht Mfg. Co. (Gasoline), Columbus, Ga.
American Die & Tool Co. (Gasoline), Reading, Pa.

American Gasoline Motor Co., Baldwinville, N. Y.

American Oil Engine Co. (Oil), 57th & B'way, New York

American & British Mfg. Co., Providence, R. I. & Bridgeport, Conn

Augustine Automatic Rotary Engine Co. (Steam), 132 Northampton, Buffalo, N. Y.

Aurora Automatic Machine Co. (Gasoline), Aurora, Ill.

Auto Engine Works (Gasoline), 427 Rice, St Paul, Minn

Bellfuss Motor Co. (Gasoline), Lansing, Mich

Beverly Mfg. Co. (Gasoline), Beverly, Mass.

Boss Knitting Machine Works (Steam), Reading, Pa

Brennan Motor Mfg. Co. (Gasoline), Syracuse, N. Y.

Brownell, F. A. Motor Co. (Gasoline), 34 H. P., Rochester, N. Y.

Brown-Talbot Machinery Co. (Gasoline), Old South bldg, Boston, Mass

Chester Engineering & Machine Co. (Gasoline), Chester, Pa.

Clark, Edw. S. (Steam), 272 Freeport, Boston, Mass

Clinton, Walter R., 34 Elm, West Haven, Conn

Columbus Screw & Machine Co. (Gasoline), 211 Kaiser, Columbus, O.

Continental Motor Mfg. Co. (Gas), Muskegon, Mich

Crouch, Chas. P. & Co. (Gasoline), 472 Carroll av, Chicago, Ill

Davis Mfg. Co. ("Davis") 935 30th, Milwaukee, Wis.

Fast Machine & Tool Works (Gasoline), 1061 29th av, Milwaukee, Wis.

Filer & Stowell Mfg. Co. ("Beaver"), Milwaukee, Wis.

Forsyth, W. & Son (Gasoline), Lynn, Mass.

Funke, A. H. ("Kelecom" Gasoline), 83 Chambers, New York

Hartford Marine & Auto Co. (Gasoline), 27 Elliott, Boston, Mass.

Hatcher Auto Parts Co. (Gasoline), The Vindicator, Cleveland, O.

Hershell-Spillman (Gasoline), West Tonawanda, N. Y.

Hewlett Motor Co. (Gasoline), 6 E 31st, New York

Hill, R. S. (Gasoline), Detroit, Mich.

Hoffman, W. Motor Works (Gasoline), 1253 N Halsted, Chicago, Ill.

Houle Motor Works (Gasoline), Holyoke, Mass

Ideal Machine Works, 255 39th, Brooklyn, N. Y.

Illinois Automobile Parts Co. ("Holtz"), Peoria, Ill.

KEIM, JNO. R. MILLS (Inc.), (Steam), Buffalo, N. Y. (See adv. index, end of book)

Kilby Mfg. Co., 4326 Lakeside av, N E, Cleveland, O.

Kirkham Motor Cycle Mfg. Co. ("Kirkham" Gasoline), Bath, N. Y.

Lamson, E. F. (Gasoline), Abington, Mass.

Lear, Oscar Auto Co. (Gasoline), Columbus, O.

Mason Regulator Co. (Steam & Gasoline), 153 Summer, Boston, Mass.

MERCHANT & EVANS CO. (Inc.), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)

Merkel Motor Co. (4-Cylinder, Air Cooled & Water Cooled Gas & Gasoline), Milwaukee, Wis.

Milwaukee Motor Co. (4-Cylinder Gasoline), 615 Clybourn, Milwaukee, Wis.

Mitchell Motor Co. ("Mitchell" Gasoline), Racine, Wis.

Model Gas Engine Works (Double Opposed, Air Cooled & Water Cooled, Gasoline), Peru, Ind.

Motor & Mfg. Works Co. (Gasoline), Ithaca, N. Y.

Muncie Auto Parts Co. (Gasoline), Muncie, Ind.

Myers, A. J. ("Aster," Imported), 1610 B'way, New York

Neer Auto. Engine Co. (Gasoline), 25 W. Russell, Columbus, O.

Neustadt Auto & Supply Co. (Gasoline & Steam), 826 S 18th St, Louis, Mo.

Northway Motor & Mfg. Co. (Gasoline), Maybury & Hancock avs., Detroit, Mich.

Ofeldt, F. W. & Sons (Steam), Nyack, N. Y.

Reeves Pulley Co. (Gasoline), Columbus, Ind.

Rochester Machine Tool Works, 3 Frank, Rochester, N. Y.

Ross & Kramer (Gasoline), 5607 S Halsted, Chicago, Ill.

St. Louis Gas & Gasoline Engine Co., 2615 De Kalb, St. Louis, Mo.

Sandusky Foundry & Machine Co. (Gas & Gasoline), Sandusky, O.

Schilling, C. R., 810 N Main, St. Louis, Mo.

Seitz, F. A. Co. (Gasoline), 149 Freylinghuysen av, Newark, N. J.

Shipman Mfg. Co. (Gasoline), Sunbury, Pa.

Smith, A. O. Co. (Gasoline, 4-Cycle), Milwaukee, Wis.

Speed Changing Pulley Co. ("Carrioco," 18-20 h. p., 4-Cylinder, 4-Cycle, Air Cooled Gasoline), Anderson, Ind.

Streit, A. Machine Co. (Gasoline), 1108 Harrison av., Cincinnati, O.

Sturtevant, B. F. Co., Hyde Park, Mass.

Torbenson Motor Co. (Gasoline), Bloomfield, N. J.

Watertown Motor Co. (S. F. Bagg, Prop.), Watertown, N. Y.

Westerfield Motor Co. (Gasoline), Anderson, Ind.

Western Motor Co. (Gasoline), Logansport, Ind.

Engines (Beating)

Clark, H. C. & Son Machine Co., Lee, Mass.

Carrier, Cyrus & Sons (Also Washing), Newark, N. J.

Dayton Glohe Iron Works Co. (for Paper Mills), Dayton, O.

Dilts Machine Works, Fulton, N. Y.

Downington Mfg. Co., East Downington, Pa.

Emerson Mfg. Co. ("Holland"), Lawrence, Mass.

Holyoke Mach. Co., Holyoke & Worcester, Mass.

Jones, E. D. & Sons Co., Pittsfield, Mass.

Poole, J. Morton Co., Wilmington, Del.

Pusey & Jones Co., Wilmington, Del.

Engines (Blowing)

ALLIS-CHALMERS CO. (Horizontal or Vertical), Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Ship Building Co., Cleveland, O.

BLAKE, GEO. F. MFG. CO., 115 B'way, New York. (See adv. index & branch offices, end of book)

Bruce-Macheth Engine Co., Cleveland, O.

BUCKEYE ENGINE CO., Salem, O. (See adv. index & branch offices, end of book)

Builders' Iron Foundry, Providence, R. I.

Filer & Stowell Co., Milwaukee, Wis.

Forbes, W. D., Co., New London, Conn.
Canton-Hughes Pump Co., Canton, & Cleveland, O.

Helsler, C. L. Mfg. Co., St. Marys, O.
KNOWLES STEAM PUMP WORKS,
115 B'way, New York. (See adv. index & branch offices, end of book)

Lake Erie Engineering Works, Buffalo, N. Y.

Mesta Machine Co., Pittsburg, Pa.

Morris, I. P. Co., Beach & Ball, Phila., Pa.

National Foundry & Mach. Co., Louisville, Ky.

Nordberg Mfg. Co., Milwaukee, Wis.

Perrin, Wm. R. & Co., Chicago, Ill.

PLATT IRON WORKS CO., Dayton, O.
(See adv. index & branch offices, end of book)

Power & Mining Machinery Co., Cudahy, Wls.

Roots, P. H. & F. M. Co., Connorsville, Ind.

Southwark Foundry & Machine Co., Phila.

Tod, Wm. Co., Youngstown, O.

Welmer Machine Works Co. (Positive Blast
(30 to 200 h p.), Lebanon, Pa.

Wellman-Seaver-Morgan Co., Cleveland, O., & Akron, O.

Wells, F. C. (Est. of), 116 S. Clinton, Chicago, Ill.

WESTINGHOUSE MACHINE CO.,
The, Westinghouse bldg, Pittsburg, Pa.
(See adv. index, end of book)

Wisconsin Engine Co., Corliss, Wls.

Engines (Bridge Erecting)

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch offices, end of book)

Bacon, Earle C., 26 Cortlandt, New York

Byers, Jno. F. Machine Co., Ravenna, O.

FLORY, S. MFG. CO., Bangor, Pa.
(See adv. index, end of book)

LAMBERT HOISTING ENGINE CO.,
115 Poliner, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty,
New York, & Old Colony bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

MONIGHAN MACHINE CO., 813 Carroll av, Chicago, Ill. (See adv. index, end of book)

MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO.,
Harrison, N. J. (See adv. index & branch offices, end of book)

SHAW, WILLIS CO., 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Engines (Chemical)

(See Fire Engine, Chemical; also Fire Extinguishers)

Engines (Compound)

ALLIS-CHALMERS CO. (Horizontal or Vertical Tandem & Cross), Milwaukee, Wls. (See adv. index & branch offices, end of book)

Arias Engine Works, Indianapolis, Ind.

Brownell Co., Dayton, O.

ELLCOTT MACHINE CO. (& Triple Expansion), Bush & Severn, Baltimore, Md. (See adv. index, end of book)

Erie City Iron Works (4-Valve Tandem & Cross), Erie, Pa.

Harrisburg Foundry & Machine Works (Single Cylinder, as well as Tandem & Cross Compound), Harrisburg, Pa.

Hoover, Owens, Reuschler Co., Hamilton, O.

MINNEAPOLIS STEEL & MACHINERY CO. (Vertical & Horizontal Cross Compound & Tandem Compound Condensing Corliss), Minneapolis, Minn. (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS (S to 350 H. P.), Baldwinsville, N. Y. (See adv. index & branch offices, end of book)
Nordberg Mfg. Co., Milwaukee, Wls.
U. S. Rapid-Fire Gun & Power Co. ("Francke" Four Ported Steam), Derby, Conn.
Wisconsin Engine Co. (Tandem up to 10,000 H. P.), Corliss, Wls.

Engines (Compressed Air)

(See also Compressors, Air)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Dake Engine Co., Grand Haven, Mich.

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

Empire Engine & Motor Co. ("Empire" Holsting, etc.), Orangeburg, N. Y.

INGERSOLL-RAND CO. (For Cranes), 11 B'way, New York. (See adv. index & branch offices, end of book)

Leyner, J. Geo. Engineering Works Co., Littleton, Col.

Engines (Corliss)

ALABAMA.

BIRMINGHAM—Birmingham Machine & Foundry Co.
Hardie, Tynes Mfg. Co.

CALIFORNIA.

SAN FRANCISCO—Golden State & Miners' Iron Works
Hendy, Joshua Iron Works Co.
Union Iron Works Co. (100 to 3000 h. p.)

CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co.
NEW BRITAIN—New Britain Machine Co.
NEW HAVEN—Twiss, N. W.

ILLINOIS.

CHICAGO—Featherstone Foundry & Machine Co., 303 Railway Ex
GALESBURG—Frost Mfg. Co. (30 to 900 h. p.)
JOLIET—Bates Machine Co. (50 to 500 H. P.)

INDIANA.

EVANSVILLE—Heilman Machine Works
INDIANAPOLIS—Atlas Engine Works

IOWA.

BURLINGTON—Murray Iron Works Co.

MASSACHUSETTS.

FITCHBURG—Brown, C. H. Engine Co.
Fitchburg Steam Engine Co.

MICHIGAN.

BATTLE CREEK—Nichols & Shepard Co.
SAGINAW—Bartlett, A. F. & Co. (50 to 1,000 h. p.)

MINNESOTA.

MINNEAPOLIS—MINNEAPOLIS STEEL & Machinery Co. ("Twin City"). (See adv. index, end of book)

MISSOURI.

KANSAS CITY—Stralt, H. N. Mfg. Co. ("Monarch" Simple Compound, Horizontal & Vertical High Duty)
ST. LOUIS—Fulton Iron Wks (30 to 5000 h.p.)
Rammling, John Mach. Co., 300 S Main
St. Louis Iron & Machine Works (Single Tandem & Cross Compound, Heavy Duty & Girder Frame, 50 to 3,000 h. p.), 126 Chouteau av
South St. Louis Foundry Co., 7514 S B'way

NEW JERSEY.

HOBOKEN—Consolidated Iron Works
NEWARK—Hewes & Phillips Iron Works (50 to 2,000 h. p.)
Watts-Campbell Co. (40 to 1,000 h. p.), 298 Ogden

NEW YORK.

BELMONT—Clark Bros. Co. (High Speed)
FISHKILL ON THE HUDSON—Fishkill Land- ing Machine Co. (25 to 1,000 h. p.)
NEWBURGH—Newburgh Ice Machine & Engine Co.
NEW YORK—New York Engine Co. (Simple, Compound & Triple Expansion 300 to 1500 h p), 165 B'way. Works: Watertown, N. Y.
TROY—Knowlson & Kelly (40 to 2,000 h. p.)
WATERTOWN—New York Engine Co. (See N. Y. City)

NORTH CAROLINA.

GREENSBORO—Greensboro Boiler & Machine Co. (Slide Valve & Automatic)

OHIO.

CINCINNATI—Lane & Bodley Co. (50 to 1000 h. p.)
CLEVELAND—Wellman-Seaver-Morgan Co. ("Akron," 30 to 2000 h. p.)
HAMILTON—Hooven, Owens Rentschler Co. ("Hamilton," 30 to 10,000 h. p.)
IRONTON—Ironton Engine Co.
MASSILLON—Russell Engine Co.
MOUNT VERNON—Cooper, C. & G. Co. (20 to 1200 h. p. Heavy Duty)
ZANESVILLE—Griffith & Wedge Co. ("Ohio")

PENNSYLVANIA.

CHESTER—Wetherill, Robt. & Co. (25 to 2000 h. p.)
ERIE—Ball Engine Co. (Horizontal & Vertical, 300 to 1200 h. p.)
Nagle Engine & Boiler Works ("Nagle")
HARRISBURG—Harrisburg Foundry & Machine Works ("Fleming," 4-Valve Automatic)
OIL CITY—Oil City Boiler Works
PHILADELPHIA—Southwark Foundry & Machine Co. ("Southwark")
PITTSBURG—Mesta Machine Co.
WESTINGHOUSE MACHINE CO., The, Westinghouse bldg. (See adv. index, end of book)
READING—Reading Iron Co. (end of book)
SCOTSDALE—Scottdale Foundry & Machine Co.
WAYNESBORO—Frick Co. ("Eclipse")
YORK—York Mfg. Co. (Ltd.)

RHODE ISLAND.

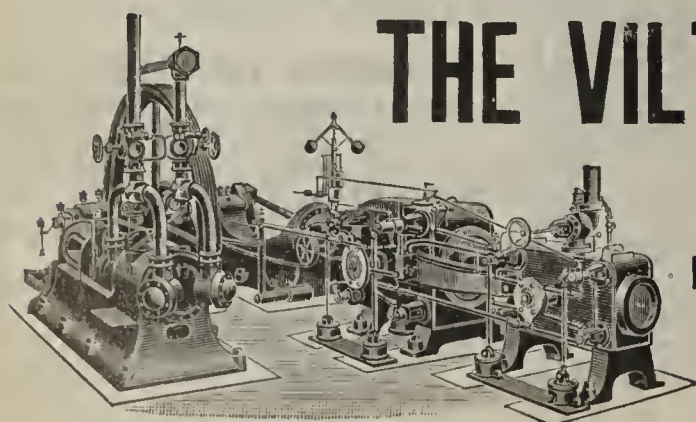
PROVIDENCE—American & British Mfg. Co.
Harris Wm. A. Steam Engine Co. (Cross & Compound Condensing & Triple Expansion, etc.)
Providence Engineering Works ("Rice & Sargent")

TENNESSEE.

JACKSON—Southern Eng. & Boiler W'ks (Inc.)

WISCONSIN.

CORLISS—Wisconsin Engine Co. (Heavy Duty, up to 800 H. P.)
MILWAUKEE—ALLIS-CHALMERS CO. ("Reynolds-Corliss") (See adv. index, end of book)
Fuller & Stowell Co. ("1900 Heavy Duty")
Nordberg Mfg. Co.
VILTER MFG. CO. (30 to 1000 h. p.) (See adv. index, end of book)



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Gillie Engine & Machine Co., Tonawanda, N. Y.

Engines (Deep Well Pumping)

American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Cook-Well Co., St. Louis, Mo. (book)
Nordberg Mfg. Co., Milwaukee, Wis.
Union Steam Pump Co., Battle Creek, Mich.
Weinman Machine Works, Columbus, O.

Engines (Direct Connected & Belted)

(See also Generators, Electric Light; also Generators, Power)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Engine Co., Boundbrook, N. J.
Ames Iron Works, Oswego, N. Y.
Ball & Wood Co., Elizabeth, N. J.
Brownell Co., Dayton, O.

BUCKEYE ENGINE CO., Salem, O. (See adv. index & branch offices, end of book)

Erie Mfg. & Supply Co., Erie, Pa.
Harrisburg Fdry. & Mach. Wks., Harrisburg, Pa.
Hooven, Owens, Rentschler Co., Hamilton, O.
Ide, A. L. & Sons, Springfield, Ill.
Knowlson & Kelly, Troy, N. Y.
Lane & Bodley Co., Cincinnati, O.

Lawrence Machine Co., Lawrence, Mass.
McIntosh, Seymour & Co., Auburn, N. Y.

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Murray Iron Works Co., Burlington, Ia.
New York Safety Steam Power Co., 114 Liberty, New York

Nordberg Mfg. Co., Milwaukee, Wis.
Noye Mfg. Co., Buffalo, N. Y.

Ridgway Dynamo & Engine Co., Ridgway, Pa.
Shepherd Engineering Co., Williamsport, Pa.

Skinner Engine Co., Erie, Pa.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Stickney, Chas. A. Co. (Gas & Gasoline), St. Paul, Minn.

Sturtevant, B. F. Co., Hyde Park, Mass.
Union Iron Works Co., San Francisco, Cal.

U. S. Rapid-Fire Gun & Power Co. ("Frankie" Four Ported Steam), Derby, Conn.

WESTINGHOUSE MACHINE CO., THE, Westinghouse bldg, Pittsburgh, Pa. (See adv. index, end of book)

Engines (Distillate)

Alamo Mfg. Co., Hillsdale, Mich.
Badger Gas & Gasoline Engine Co., Kansas City, Kan.

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Reeves Engineering Co., Mount Vernon, O.
Root & Van Dervoort Engineering Co., East Moline, Ill.

*Engines (Drawbridge)

LIDGERWOOD MFG. CO., 96 Liberty, New York & Old Colony bldg, Chicago (See adv. index & branch offices, end of book)

MEAD-MORRISON MFG. CO., Cam-bridge (Boston), Mass. (See adv. index & branch offices, end of book)

*Engines (Dredging)

ELLCOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)

FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)

LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

MEAD-MORRISON MFG. CO., Cam-bridge (Boston), Mass. (See adv. index & branch offices, end of book)

MONIGHAN MACHINE CO., 813 Car-roll av, Chicago, Ill. (See adv. index, end of book)

MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)

SHAW, WILLIS CO., 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Toledo Foundry & Machine Co., Toledo, O.

WETHERILL BROS. MACHINE CO., Ches-ter, Pa. (See adv. index, end of book)

Engines for Fan Driving, Etc.

Brownell Co., Dayton, O.
Green Fuel Economizer Co., Matteawan, N. Y., & 1218 West Street bldg, New York

New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O

Engines (Gas & Gasoline)

(See also Engines, Gasoline, Marine)

ALABAMA.

BIRMINGHAM—White-Blakeslee Mfg. Co. (Gas & Gasoline)

CALIFORNIA.

ALAMEDA—Gorham Engineering Co. (Marine Gas)

Hercules Gas Engine Works (Gas & Gasoline)

FRESNO—Central California Machine Works (Inc.) (Gas)

LOS ANGELES—FAIRBANKS, MORSE & Co. (Gas & Gasoline for All Purposes), 136 Los Angeles. (See adv. index, end of book)

Norton Engine & Power Co. ("Alamo," Gas)
Stearns Gas Engine Works (Gas)

Western Gas Engine Co. (7 to 500 h. p.)

OAKLAND—Union Gas Engine Co. (Gas & Oil), East Oakland

POMONA—Pomona Mfg. Co. (Gasoline)

SAN FRANCISCO—Bailey-Raymond Machine Works (Gas & Oils), 17 Fremont

Corliss Gas Engine Co. (Stationary & Marine), 227 Folsom

Doak Gas Engine Co. (Gas), 8th & Irvin

Dundon's San Francisco Iron Works, 225 Folsom

Economist Gas Engine Co. (also Crude Oil), 519 Howard

FAIRBANKS, MORSE & CO. (Gas & Gasoline. (For All Purposes), 310 Market. (See adv. index, end of book)

Garratt, W. T. & Co. (Inc.), 142 Fremont

Golden State & Miners' Iron Works (Gas & Gasoline), 231 1st

Hawkins Mfg. Co., 300 Post

Henshaw, Bulkley & Co., 219 Spear

Hicks, Jas. L. (Gas, etc.), 667 Mission

Imperial Gas Engine Co. (Gas), 60 Clementine

Jackson, Byron Machine Works (Gas & Gasoline), 411 Market

Ohmen Engine Works, 17th & Capp

Schilling, Adam & Sons (Gas & Gasoline), Standard Gas Engine Co. (Gas), 211 Main

Swain, Hadwen Mfg. Co. (Gas & Gasoline), 92 7th

Union Gas Engine Co. ("Union"), 244 1st

Union Iron Works Co., 20th & Mich.

Webber & Richer Iron Works (Gas), 103 Beale

Weidenthal-Gosliner Electric Works

Woodin & Little (Gas & Gasoline), 70 Fremont

SAN LEANDRO—Best Mfg. Co. (Gas, Gasoline & Oil)

STOCKTON—Samson Iron Works (Gas)

COLORADO.

DENVER—FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 1600 17th. (See adv. index, end of book)

Finch Gas Engine & Machine Works, 1360 11th

FLORENCE—Florence Iron Works Co. ("Florence" Gas)

CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co. (Gas or Gasoline in Quantities Only)

Automatic Machine Co. (Marine)

Bridgeport Motor Co. (Gasoline Motors)

Hitchcock Gas Engine Co. (Marine Gasoline)

Royal Equipment Co. ("Royal" Gasoline, 4 Cycle)

Van Auken Motor & Machine Works (Twin Screw Marine)

Wheeler Engine Co. (Gas & Gasoline)

Wolverine Motor Works (Marine)

CENTERBROOK—Connecticut Valley Mfg Co. (Gasoline Marine)

COS COB—Palmer Bros. (Gasoline)

DERBY—Housatonic Motor & Machine Co. (Marine Gasoline)

HARTFORD—Gray & Prior Machine Co.

MIANUS—Mianus Motor Works. ("Hartford")

MIDDLETOWN—Hubbard Motor Co. (2 & 4 cycle)

MYSTIC—Lathrop, J. W. (Stationary & Marine, 1½ to 25 h. p.; Gas & Gasoline)

NEW BRITAIN—Kinne, Wm. A.

NEW HAVEN—Miler & Peck Mfg. Co. (Gas & Gasoline)

NEW LONDON—Hasbrouck Motor Works (Inc.) (4 Cycle Marine, etc., Gasoline)

New London Gas & Electric Co. (Marine)

New London Motor Co. (Gasoline)

NORWALK—Barker, C. L. (Gas)

SEYMOUR—Church, S. B. (Gas & Gasoline)

STAMFORD—Fox, Charles (Gas & Gasoline)

Mueuch, George (Gasoline)

Stamford Motor Co. (Inc.), ("Snecker" Gasoline)

STONY CREEK—Beach, O. B. (Gas & Gasoline)

TORRINGTON—Progressive Mfg. Co. (Marine)

WEST MYSTIC—Holmes Motor Co.

DELAWARE.

WILMINGTON—Delaware Machine Works (Gasoline)

Stowe Mfg. Co. (Marine Gasoline)

ILLINOIS.

AURORA—AMERICAN WELL WORKS (Gasoline) (See adv. index, end of book)

BATAVIA—Challenge Co. (Gasoline)

CHICAGO—Aermotor Co., Campbell av, n 12th ("Aermotor")

Caldwell, H. W. & Son, Western av, bet 17th & 18th

Cavanaugh & Darley (Gas), 84 Van Buren

Chicago Water Motor & Fan Co. ("Backus"), 40 Dearborn

Colborne Mfg. Co. (Gas), 35 Indiana

Continental Engine Co., 8 S Canal

FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), Wabash av & Eldredge pl. (See adv. index, end of book)

Holliday Mfg. & Engineering Co. (Gas), 160 Bunker

International Harvester Co. of America (Gasoline, Horizontal, Vertical, Pumping, Portable, etc.), Mich. av & Harrison st

Kling Bros. (Gas & Gasoline, 2 to 40 h. p.), 287 Hawthorne av.

Lammert & Mann (Gas & Gasoline), 153 S Jefferson

Latham Machinery Co., 199 S Canal

McDonald, A. H. (Gas), 60 W Monroe

Murray, W. B. (Gas & Gasoline), 353 Wabansla av

National Meter Co. ("Nash" Gas & Gasoline), 318 Dearborn

Plunket, James E. (Gas), 47 S Jefferson

Skiffin & Richards Mfg. Co., 127 Fulton

Smith Mfg. Co. (Gasoline), 158 E Harrison

Strang Engine Co. (Double Acting), 140 Dearborn

Swain Engine Co. (Gas), 4107 Cottage Grove av

Temple Pump Co. ("Master Workman," Gasoline, 2 to 10 h. p.), 17 W 15th pl

United Pump & Power Co., 84 Van Buren

WEBSTER MFG. CO. (Vertical 3½ & Horizontal 4 to 10 h. p.), 1075 W. 15th. (See adv. index, end of book)

DIXON—Clipper Lawn Mower Co. (Gasoline Marine)

EAST MOLINE—Root & Van Dervoort Engineering Co. (Gas & Gasoline)

FREEPORT—Freeport Gas Machine Co. (Gas)

Freeport Windmill & Gas Engine Co. (Gas-Stover Engine Works (Gasoline))

HAVANA—Havana Mfg. Co. ("Havana," "Red & Ready")

JOLIET—Buckeye Engine & Foundry Co.

KEWANEE—KEWANEE WATER SUP-ply Co. (See adv. index, end of book)

MOLINE—Moline Pump Co. (Gas, 2 to 7 h. p.)

NORTH CHICAGO—Nagel Gas Engine Co.

North Chicago Machine Co. (Gas)

PEORIA—Illinois Automobile & Parts Co.

PERU—Brunner, Chas. ("Holtz")

PLANO—Independent Harvester Co. (Air Cooled, 3 h. p. Gasoline)

ROCKFORD—Rockford Engine Works (Gasoline)

Savage & Love Co. (Gas & Gasoline)

SHELBYVILLE—Anderson Engine Co.

STERLING—Charter Gas Engine Co. (Gas & Gasoline)

WARNER—Warner Elevator Mfg. Co. ("Warner" Gasoline)

INDIANA.

ANDERSON—Anderson Tool Co. (Gas)
 Buckeye Mfg. Co. (Gas & Gasoline)
 Lambert Gas & Gasoline Engine Co. (Gas & Gasoline)
 ANGOLA—Angola Engine & Foundry Co.
 EAST CHICAGO—Famous Mfg. Co.
 FORT WAYNE—Ft. Wayne Foundry & Machine Co. (Gas & Gasoline)
 Western Gas Construction Co. (Gas & Gasoline)
 GOSHEN—Goshen Motor Works
 HAGERSTOWN—Light Inspection Car Co.
 INDIANAPOLIS—Atlas Engine Works (2 to 30 h. p.), 19th & Martindale av
 Capital Gas Engine Co.
 Crescent Mach. & Tool Co. (Gas & Gasoline)
FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 140 S Meridian. (See adv. index, end of book)
 Howe Engine Co. (Gasoline), Hillside & Bloyd avs.
 KENDALVILLE—Flint & Walling Mfg. Co. (Gasoline)
 LOGANSPOUT—Western Motor Co. ("Rutember")
 MARION—Gillespie, L. W. & Co. (Gas & Gasoline, 1 h. p. & up)
 NISHAWAKA—Perkins Windmill Co.
 MUNCIE—Muncie Gas Engine & Supply Co. ("Auglaize" Gas)
 NEW ALBANY—Goetz-Coleman Mfg. Co. (Gas & Gasoline)
 PERU—Model Gas Engine Works
 PLYMOUTH—Clizbe Bros. Mfg. Co.

IOWA.

CEDAR RAPIDS—Cedar Rapids Foundry & Machine Co.
 CHARLES CITY—Hart-Parr Co. (Oil Cooled Gasoline)
 CLINTON—Lamb Boat & Engine Co. (Gas)
 DAVENPORT—Buck Auto Carriage & Implement Co.
 White Lily Mfg. Co. ("White Lily" Gasoline)
 DES MOINES—Globe Machinery & Supply Co., Monarch Machine Co., 414 W. Court av.
 IOWA CITY—Kelly, O. S., Western Mfg. Co.
 IOWA FALLS—Gade Bros. Mfg. Co. (Air Cooling, Gasoline)
 LYONS—Pelton, T. G. & Son (Gasoline)
 MARSHALLTOWN—Lennox Machine Co. (Stationary & Mounted)
 Shortliff, A. E. Co.
 WATERLOO—Armstrong-Quam Mfg. Co.
 Chamberlain Machine Works (Gasoline)
 Iowa Gasoline Engine Co. (Gasoline)
 Waterloo Gasoline Engine Co. (Gasoline)

KANSAS.

CLAY CENTER—Clay Center Windmill & Foundry Co.
 KANSAS CITY—Badger Gas & Gasoline Engine Co. (Gas & Gasoline)

KENTUCKY.

LOUISVILLE—**FAIRBANKS, MORSE & Co. (Gas & Gasoline for All Purposes), 519 Main. (See adv. index, end of book)**
 Longest Bros Co. (Gasoline), 561 3d
 NEWPORT—Deam Gas Engine & Foundry Co. (Gas)
 WINCHESTER—Hagans Gas Engine & Mfg. Co. (Gas)

MAINE.

AUGUSTA—Fifield Bros.
 BATH—Bath Automobile & Gas Engine Co. (Gas)
 Torrey Roller Bushing Works
 CAMDEN—Camden Anchor-Rockland Machine Co. (Gasoline)
 PORTLAND—American Gas & Gasoline Engine Co.

MARYLAND.

BALTIMORE—Eisenbrandt, F. B. (Marine Gasoline), ft of Marshall
 Hollingsworth, Wm., 227 N. Holliday
 Keidel, Henry & Co. (Gasoline), 405 W. German
 Page Engineering Co. (Gas & Gasoline), 119 E. York
 Schwelzer Motor Co. ("Schweizer" Gas)
 Equitable bldg
 White & Middleton Gas Engine Co. (Gas & Gasoline, 5 to 400-H P.), Charles & Winder

MASSACHUSETTS.

ABINGTON—Lamson Machine Co.
 BOSTON—Boston Gasoline Engine Co. ("Reliable"), 19 High
 Church, Stephen B. (Gas & Gasoline), 66 Holt, Shattuck & Co., 45 Wash. High
 Jager, Chas J. Co. ("Jager" 4 Cycle type, 3 to 60 h. p.), 281 Franklin

Lunt, Moss & Co. (Gas & Gasoline), 43 S Market
 Murray & Tregurtha Co., 338 W 1st, S. B.
 National Motor Co., 150 Franklin
 Sturtevant Mill Co., Clayton cor Park Dor
 Whitney, F. E. (Gas & Gasoline), 65 Sudbury

FITCHBURG—Wachusett Machine Co.
 GLOUCESTER—Richardson, N. & Sons Mfg. Co.
 LAWRENCE—Lawrence Machine Co. (2 & 4 Stanley Co.
 Turner & Schwartzberg (Gas)
 LYNN—Young, W. J., Machine Co. (Essex Gasoline Engines)
 QUINCY—Lizotte, Jos. & Co. (Gasoline)
 TAUNTON—Easternhouse Engine Co. ("Pearl"), 35 Vernon
 WOLLASTON—Emery, Victor J. (Marine Gas)
 WORCESTER—Adams, John J. (Gas & Gasoline), 81 Mechanic
 Greendale Gas Engine Co. (Gas & Gasoline), Boylston, cor. Fales
 Knight, Ethel O., 86 Foster

MICHIGAN.

ALBION—Cook Mfg. Co. (Gas & Gasoline)
 ALMA—Alma Mfg. Co. ("McVicker" Automatic Gasoline)
 BATTLE CREEK—Kneeland Mfg. Co.
 BELDING—Ballou Mfg. Co.
 COLDWATER—Regal Gasoline Engine Co. (Gasoline)
 DETROIT—Blomstrom, C. H., Motor Co., 1270 W Jefferson av
 Calle Perfection Motor Co. (Marine & Stationary Gasoline)
 Cross, M. O. Engine Co. (Marine & Stationary), 800 Bellevue av
 Detroit Engineering Works, cor Chene & Guoin
 Detroit River Iron Works, 665 E. Atwater
 Dingfelder, Max (Gasoline), ft. of Crane
 Du Brie Motor Co., 436 Gnoin
FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 89 Jefferson. (See adv. index, end of book)
 Ford Motor Co. (2 & 4 Cylinder), Piquette av. & Beaubien
 Free Piston Gas Engine Co., 1867 River
 Gray Motor Co., Leib & Wight
 Lamont & Steers Engine Co., 1470 Jefferson
 Limbacher, Joseph (Gasoline, Marine), 60 Woodbridge
 Michigan Auto Parts Co. (Gasoline, 4 to 10 h. p.)
 Michigan Steel Boat Co., 1250 Jefferson av
 Pungs-Finch Auto & Gas Engine Co.
 ("King," "Sintz," 2 & 4 Cycle, 4 to 75 h. p.), 1524 Jefferson av
 Sommer Motor Co., 298 E Columbia
 Strelinger, Chas. A. Co. (Gas), 96 Bates
 Strelinger Marine Engine Co., 46 E Congress

Tessmer Machine & Tool Co. (Marine & Stationary Gasoline Engines), 285 Rivard
 United Mfg. Co., 171 W. Woodbridge
 Watt-Gagnon Co. (Auto & Marine Motors), 454 St. Paul av
 GRAND RAPIDS—Austin Automobile Co. (Gasoline Automatic & Launch), 88 Division
 Grand Rapids Gas Engine & Yacht Co.
 Sintz, Wallin, Co. ("Monarch")
 GREENVILLE—Moore Plow & Implement Co. ("Moore" Gasoline)
 HILLSDALE—Alamo Mfg. Co. (Gas & Gasoline)
 IONIA—Arnold, G. W. Son (Gasoline)
 JACKSON—Field-Brundage Co. ("Field" Gasoline)
 KALAMAZOO—Burt Mfg. Co.
 Kalamazoo Railway Supply Co. (Gasoline)
 Smith & Pomeroy Wind Mill Co. Pumping
 LANSING—Bates & Edmonds Motor Co. (Gas & Gasoline)
 Bates & Edmonds Motor Co. (Gas & Gasoline)
 Belifuss Motor Co. (Gas)
 Hildreth Mfg. Co.
 Lansing Motor & Pump Co. (Gasoline)
 New-Way Motor Co. (Gasoline, 3½ to 7 h. p.)
 Olds Gas Power Co. (Stationary & Portable)
 Peerless Motor Co.
 FANCIONA—Felline Motor Co.

MARCELLUS—Chapman Forge & Engine Works ("Economizer")
 MARQUETTE—Lake Shore Engine Works ("New Superior 2 & 4-Cycle")
 MORENCI—Michigan Brick & Tile Machine Co.
 MUSKOGON—Continental Motor Mfg. Co.
 Racine Boat Mfg. Co.
 PETOSKEY—Burnett Foundry & Machine Works (Marine)
 SAGINAW—Heginbottom & Sons
 National Engineering Co. ("New Model" & "Michigan")
 ST. JOHNS—Richmond & Halmes (Gas & Gasoline)
 ST. JOSEPH—Spaulding Engine Co. (2-Cycle Gasoline, Marine)

Truscott Boat Mfg. Co. (Gasoline, Marine)
 SAULT SAINT MARIE—Chippewa Engine Works (Gasoline)
 THREE RIVERS—Sheffield Car Co.

MINNESOTA.

DULUTH—Duluth Gas Engine Works ("Little Kelley Hardware Co. (Gasoline) Giant")
 FAIRMONT—Fairmont Machine Co. ("Fairmont" Gasoline)
 HASTINGS—Stroud-Humphrey Mfg. Co.
 MINNEAPOLIS—Enterprise Machine Co. (Gasoline), 1118 S 3d
FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 220 Nicollet av. (See adv. index, end of book)
 Kinnard-Halmes Co., 44th & Bryant av
 Minneapolis Brass & Iron Mfg. Co. (Gasoline), 116 1st av n
MINNEAPOLIS STEEL & MACHINERY Co. ("Muenzel" Gas; 30 to 500 H. P.), Minneapolis, Minn. (See adv. index, end of book)
 North Star Mfg. Co., 21 High
 Parten-Blomstrom Mfg. Co., 249 S 6th av
 Shadegg, J. C., Engine Co., 315 S 3d
 Valentine Bros. Mfg. Co. (Gasoline), 230 S
 NORTHFIELD—Spear, L. E., 5th av
 RED WING—Red Wing Boat Mfg. Co. (Gasoline)

ST. PAUL—Auto Engine Works (Marine Gasoline), 427 Race
 Stickney, Chas. A. Co. (Gas & Gasoline)
 Watrous Engine Works Co. (Gasoline)
 WILLMAR—Halvorsen, Lars
 WINONA—Tarras, L. C. (Gasoline)
 Winona Machine & Boat Works (Motor Boat), Winona, Minn.

MISSOURI.

KANSAS CITY—Bauer Machine Works Co., 111 W 18th
 Jones Bros. Mercantile Co. ("Samson")
 Kansas City Hay Press Co. (Stationary & Portable)
 Mathews, Hugh, 5th & Washington
 Witte Iron Works Co. (Gas & Gasoline), 5th & Penn
 ST. LOUIS—**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 8th & Clark av. (See adv. index, end of book)**
 Macgowan & Flinnigan Foundry & Mach. Co., 204 N 3d
 St. Louis Gas & Gasoline Engine Co., 2615 De Kalb
 Sinning, Chas., Machine Works (Gas & Gasoline), 244 Dickson

NEBRASKA.

BEATRICE—Dempster Mill Mfg. Co.
 LINCOLN—Cushman Motor Co. (2-Cycle Gasoline)
 NORFOLK—Norfolk Foundry & Mfg. Co. (Gasoline)
 OMAHA—**FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 1102 Farnam. (See adv. index, end of book)**

NEW JERSEY.

BLOOMFIELD—Empire Cream Separator Co.
 BORDENTOWN—Rice, John V., Jr., & Co. ("Rice" Marine Gas.)
 JERSEY CITY—Standard Motor Const. Co. (75 h. p. up), 182 Whiton
 NEWARK—Backus Water Motor Co. (Gas & Gasoline), 174 Penn av
 Hartig Standard Gas Engine Co. (Gas & Gasoline), 14 Commercial
 Newark Gas Engine Co., 676 N 6th
 Seltz, F. A. Co. (For Autos & Motor Boats)
 145 Frelinghuysen
WALSH'S SONS & CO. (See adv. index, end of book)

PATERSON—Sipp Electric & Machine Co.
 PERTH AMBOY—Dutton Engineering Co. (Gasoline)
 TRENTON—Trenton Malleable Iron Co. ("Rice" 2 & 4-Cycle)

NEW YORK.

BELMONT—Clark Bros. Co. ("Bogart" Heavy Duty Double Cylinder Gas, 100 to 500 h. p.)
 BINGHAMTON—Canfield, P. B. (Gas)
 Deyo, R. H. & Co. (Gas)
 BUFFALO—Alberger, A. H., Co. (4-Cycle, 2-Cylinder, Tandem, Gas & Gasoline, 25 to 250 h. p.), Ellicott sq
 Buffalo Engine Co. (Salisbury), 272 Michigan
 Buffalo Gasoline Motor Co., 1280 Niagara
 Eisenhans Machine Works (Gas & Gasoline), 500 Wash'n
 Empire Machine & Stamping Co., 59 Ter-Farrar & Trefts (Gas), 63 Perry race
 Frontier Engine Works, ft. of Illinois
 Kling Iron Works (Gas), Buffalo, N. Y.

Lake Erie Engineering Works (100 to 10,000 h. p.)
 Noye Mfg. Co. (Gas) 50 Lakeview av.
 Olin Gas Engine Co. (Gas & Gasoline), 10 Lock
 Robertson Mfg. Co. (Gas), 1453 Niagara
 Ruger, J. W., Mfg. Co. (Gas & Gasoline, 4-Cycle Compression Type, 5 to 100 h. p.), Chicago & Perry
 Sterling Engine Co. (Gas), 119 Grant
 ELMIRA—Field Force Pump Co.
 FRANKFORT—Acme Road Machinery Co. (Gasoline) book
 FULTON—Parker, J. J. Co. (Gasoline) book
 GASPORT—Friend Mfg. Co.
 GENEVA—Fay & Bowen Engine Co. (Gas & Gasoline, 2-Cycle Stationary & Marine)
 HAMMONDSPORT—Curtiss, G. H. Mfg. Co.
 MALONE—Hinds, Thomas, Estate (Gasoline)
 NEWBURGH—Lackawanna Mfg. Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Brooklyn Gas & Gasoline Engine Co., 1377 De Kalb av
 National Meter Co., 42d c 1st av
 Saladin, Louis & Co., 1143 De Kalb av

Boroughs of Manhattan & Bronx.

NEW YORK—ALLIS-CHALMERS CO. (Gas Only, Four-Cycle Double-Acting, 500 to 5,000 H. P.), 71 B'way. (See adv. index, end of book)
 Allman Gas Engine & Mach. Co., 29 Sullivan
 AMERICAN WELL WORKS (Gasoline), 2 Stone. (See adv. index, end of book)
 Baylis Co., 140 Wash u book
 BEGGS, JAMES & CO., 109 Liberty. (See adv. index, end of book)
 Calleson Motor Co. (Gas), 120 Centre
 CLAYTON AIR COMPRESSOR Works (Gas Only), 115 B'way. (See adv. index, end of book)
 De La Vergne Machine Co. ("Koertling" Gas), ft E 138th
 DONEGAN & SWIFT (Gasoline, Self-Contained), 6 Murray. (See adv. index, end of book)
 FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 133 Liberty. (See adv. index, end of book)
 Gas Engine & Power Co. & Chas. L. Seabury & Co. ("Speedway" Gasoline), Morris Heights
 GAS POWER CO., 2 Rector. (See adv. index, end of book)
 Homan, J. & E. (Gas & Gasoline), 378 W B'way
 Hurd & Haggin (Inc), 316 Hudson, New York.
 International Oil Engine Co., 1779 B'way
 Kumberger & Vreeland (Gas & Gasoline), 35 Sullivan
 LAIDLAW-DUNN-GORDON CO. (Gas Only), 115 B'way. (See adv. index, end of book)
 Loomis, F. W., 403 Canal of book
 National Meter Co. ("Nash" Gas & Gasoline), 84 Chambers
 New York Safety Steam Power Co., 114 Liberty
 New York Yacht, Launch & Engine Co. ("20th Century"), Morris Heights
 Oil City Boiler Works (Inc.) (of Oil City, Pa.) (Gas), 39 Cortlandi
 Powell Engine Corporation, 49 Warren, New York
 Thompson, Andw. (Gas & Gasoline), 114 Centre
 WEBSTER MFG. CO. (Vertical 3½ & Horizontal 4 to 10 h. p.) 88 Reade. (See adv. index, end of book)
 White Mfg. Co. ("The Craig," Gas & Gasoline), 556 W 34th

Borough of Queens.

LONG ISLAND CITY—Daimler Mfg. Co., 939 Steinway av
 (End of New York City)
 NORTH TONAWANDA—Herschell-Spillman Co.
 NUNDA—Foote Mfg. Co.
 OLEAN—Myrick Machine Co. (Gas)
 ROCHESTER—Beers Bros. Engine Co. (Gasoline), Culver rd
 Brownell, F. A. Motor Co. (Gas)
 Horton Boats (Inc.)
 Luitwieler Pumping Engine Co. (Gas & Gasoline)
 Rochester Gas Engine Co., Lexington av Bridge
 Trebert Gas Engine Co. ("Monarch"), 163
 ROME—Marwell & Fitch Co. Main, W.

SCHENECTADY—Westinghouse Co.
 SYRACUSE—Barber Bros.
 Leighton, H. J., 901 W Fayette
 Sanderson, Wm., 307 W Willow
 VERNON—Pohl, Geo. D. Mfg. Co. (Gasoline "Advance")
 WATERTOWN—Smith Electrical Engineering Co. ("Boynton")

NORTH DAKOTA.

FARGO—Fargo Foundry Co. (Gasoline Only)

OHIO.

BUCYRUS—Hall Gas Engine Co.
 CINCINNATI—Berghausen Machine Co., 601 Lock
 FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 307 Walnut. (See adv. index, end of book)
 Lane & Bodley Co. (Gas), Paddock rd & Ross av
 Parks Ball Bearing Machine Co. (Gas & Gasoline), Knowlton & Fergus
 Superior Tool & Supply Co., 500 E Front
 Van Duzen, E. W. Co. (Gas & Gasoline), 428 E 2d
 Vandewalle, Chas. & Co. (Marine Gasoline), Mt Echo & W 6th
 Watkins Motor Co. (Gas & Gasoline), 6th & Baymiller
 CLEVELAND—Bruce-Macbeth Engine Co. (8 to 100 h. p.)
 De Mooy Bros. (Marine Gasoline), 1831 E 55th
 FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 99 Water. (See adv. index, end of book)
 Standard Pump & Engine Co. (Gas), 522 Prospect av, N. W.
 STRONG, CARLISLE & HAMMOND Co., 336 Frankfort av, N. W. (See adv. index, end of book)
 Wellman-Seaver-Morgan Co. ("Cockerill" Gas, "Sargent" Gas), 7004 Central av
 COLUMBUS—Columbus Machine Co. (Gas & Gasoline), 223 W Broad
 Lowe Bros. (Gas & Gasoline, 2 to 20 h. p.), 38 W Town
 Robinson-Tilton Machine Co. ("Noxol"), 515 W 1st av
 DAYTON—Callahan, W. P. & Co. (up to 200 h. p.), 901 E 3d
 New Era Gas Engine Co. ("Little Giant" & "New Era"), 2d & Dale av
 Steiner, M. & Co. (Gas), 242 S Torrance
 Stoddard Mfg. Co., Bainbridge & Bacon
 ELYRIA—Elyria Gas Engine Co. (Gas & Gasoline)
 GREENVILLE—Ross Supply Co. (Gasoline)
 Wogoman Mfg. Co. (Gas & Gasoline)
 HAMILTON—Advance Mfg. Co. (3 to 35 b. p.)
 KENTON—Kenton Gas Engine Co.
 LEIPSIC—American Foundry Co. ("Gas")
 LIMA—Bessemer Gas Engine Co.
 East Iron & Machine Co.
 LORAIN—Brown-Cochran Co. ("Brown," "Lacy")
 MANSFIELD—Ferryak Machine Co. (Gasoline)
 MARIETTA—Pattin Bros. Co. (Gas)
 MARION—Marion Mfg. Co. of Ohio (Gas & Gasoline)
 MIDDLETOWN—Middletown Machine Co. (Gas)
 MOUNT VERNON—Reeves Engineering Co. (Gas & Gasoline)
 NORWALK—Kavanaugh, Wm. Co. ("Davis")
 ORRVILLE—Cyclone Drill Co.
 ST. MARYS—St. Marys Machine Co. (Gas & Gasoline)
 SALEM—BUCKEYE ENGINE CO. (Gas, 50 to 8000 h. p.) (See adv. index, end of book)
 SANDUSKY—Ohio Motor Co. (Gas & Gasoline, Stationary & Portable)
 SPRINGFIELD—Bauroth, W. F., & Bro. (Gas & Gasoline, 2 to 15 h. p.)
 Foos Gas Engine Co., Springfield, Ohio
 Foos Mfg. Co. (Gasoline, 1 to 15 h. p.)
 Miller Improved Gas Engine Co. (heavy Duty Gas, 35 to 250 h. p.), East & Eastern av
 Springfield Gas Engine Co. (Gas & Gasoline), Park n Main
 Superior Gas Engine Co. (Gas & Gasoline)
 TOLEDO—Jones, S. M. Co.
 Rathburn-Jones Engineering Co.
 Reeves Gas Engine & Motor Works
 Universal Machine Co. (Gasoline Marine)
 TROY—Hobart Electric Mfg. Co.
 UPPER SANDUSKY—Ohio Mfg. Co.
 YOUNGSTOWN—Tod, Wm. Co. (Gas in Units, from 300 to 5000 h. p.)

OKLAHOMA.

BARTLESVILLE—Frick - Reid Supply Co. ("Reid" Gas)

OREGON.

PORTLAND—Columbia Gas Engine & Safe Works, 242 2d
 FAIRBANKS, MORSE & CO. (Gas & Gasoline for All Purposes), 1st & Stark. (See adv. index, end of book)

PENNSYLVANIA.

ALLEGHENY—National Gear Wheel & Foundry Co. (Gas, "The Mertes" Duplex Gas), South & Walker
 ALLENTOWN—Allentown Foundry & Machine Works (Up to 10 h. p.)
 Nadig, Chas. H. Mfg. Co. (Gasoline)
 BEAVER FALLS—Keystone Driller Co.
 BRADFORD—Blaisdell Machinery Co. (Gas)
 Bovard & Co. (Gas & Gasoline)
 Bovard & Seyfang Mfg. Co. (Gas)
 McElwaine Co. (Gas)
 BUTLER—Braden Gas Engine Co. (Gas & Gasoline)
 Evans Mfg. Co. (Gas) line
 Palm Gas Engine Co. (Gas)
 CHESTER—Chester Engineering & Machine Co. (Gasoline, 4 to 60 h. p.)
 Jacobson Engine Co. (Gas, 20 to 400 h. p.)
 CORRY—Ajax Iron Works (Gas & Gasoline, 4 to 125 h. p.)
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 ERLE—Bay State Iron Works
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 GROVE CITY—Bessemer Gas Engine Co. (Gas)
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 LANSDALE—Heebner & Sons (Gasoline, Stationary & on Wheels)
 NEW BRIGHTON—Pittsburg Machine Co.
 NEW HOLLAND—New Holland Machine Co. (Gasoline)
 OIL CITY—Oil City Boiler Works (Inc) (Gas)
 Riverside Engine Co. (High Duty, Double Acting Tandem Gas Engines, etc.)
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 Hall Gas Engine Co., 4821 Garden bldg
 Otto Gas Engine Works (Gas & Gasoline), 33d & Walnut
 Phila. Gas Power Machinery Co., N. Front & Indiana
 Steffey Mfg. Co. (Gas), 2941 Girard av
 Vulcan Engine Works ("Vulcan"), 1727 Ludlow, Phila., Pa.
 Williamson Motor Co., 8 S 39th
 PITTSBURGH—Davison, N. C. Co. (Gas), Keenan bldg
 Mesta Machine Co. (Double Acting Gas)
 OIL WELL SUPPLY CO. (Gas), 215 Water. (See adv. index, end of book)
 TATE, JONES & CO. (Inc.) (Gas), Empire bldg. (See adv. index, end of book)
 WESTINGHOUSE MACHINE CO., The (10 to 10,000 b. p.), Westinghouse bldg. (See adv. index, end of book)
 SHIPPINSBURG—Domestic Engine & Pump Co.
 TITUSVILLE—Titusville Iron Co.
 WARREN—JACOBSON MACHINE MFG. Co. (See adv. index, end of book)
 Struthers-Wells Co. (Gas)
 WAYNESBORO—Geiser Mfg. Co. (Gasoline)
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 Williamsport Gas Engine Co. (Gas & Gasoline for all Purposes)
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 Henry, Millard & Henry Co. ("Advance" 2 to 15 h. p.)

RHODE ISLAND.

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 Rhode Island Motor Car Co.

TENNESSEE.

MEMPHIS—Union Iron Works (Gas & Gasoline), N Main c Keel

TEXAS.

DALLAS—AMERICAN WELL WORKS (Gasoline). (See adv. index, end of book)

VERMONT.

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 POULTNEY—Ruggles Machine Co.

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WESTMINSTER STATION—Abenague Machine Works (Gas & Gasoline)

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Hass, H. E., Gas & Gasoline Works (Gas & Gasoline)
Quentln, Peter N. (Gas)
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MILWAUKEE—ALLIS-CHALMERS CO. (Gas Only, Four-Cycle Double-Acting, 500 to 5,000 h. p.) (See adv. index, end of book)
Davis Mfg. Co., 207 6th
Filer & Stowell Mfg. Co. ("Beaver")
Lauson, C. P. & J. Co. (Gasoline), 841 30th
Milwaukee Auto Engine & Supply Co., 706 Winnebago
Milwaukee Machinery Co. (Gasoline), 31st & Walnut
Milwaukee Motor Co., Burleigh N E, cor 32d
Toepfer's, Frank Sons, 460 National av
Western Malleable & Grey Iron Mfg. Co. ("Simplicity")
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Wabers, H. H. Mfg. Co. (Gas & Gasoline)
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SUPERIOR—Duplex Mfg. Co. (Gasoline)

Engines (Greenhouse & Garden)

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Engines (Haulage)

Aetna Foundry & Machine Co., Springfield, Ill.
AMERICAN HOIST & DERRICK CO. (Double & Single Friction Drum), St. Paul, Minn. (See adv. index & branch offices, end of book)
Chase Machine Co. (Docking & Hauling Cars, etc.), Cleveland, O.
Crawford & McCrimmon Co., Brazil, Ind.
Danville Foundry & Machine Co., Danville, Ill.
DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

HOISTING ENGINES DRUM HOISTS

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Exeter Machine Works, West Pittston, Pa.
Finch Mfg. Co., Scranton, Pa.
FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
Griffith & Wedge Co., Zanesville, O.
Herron-Webb Engineering Co., Monongahela, Pa.

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McMyler Mfg. Co., 1799 Columbus rd, Cleveland, O. Works: Warren, O.

MARYLAND EQUIPMENT & SUPPLY Co. (New and Second Hand), Calvert & Lafayette Baltimore, Md. (See adv. index, end of book)

MEAD-MORRISON MFG. CO. (Twin Drum Tail Rope), Cambridge, Mass. (See adv. index & branch offices, end of book)

Miltholland, J. & J. B. Co. (Endless rope), 718 5th av, Pittsburgh, Pa.

MONIGHAN MACHINE CO., 813 Carroll av, Chicago, Ill. (See adv. index, end of book)

Mullen, Jno. & Son, Shamokin, Pa. of book

MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)

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Puget Sound Iron & Steel Works, Tacoma, Wash.

Scottdale Foundry & Machine Co., Scottdale, Pa.

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Stine, S. B., Osceola Mills, Pa.

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Wellman-Seaver-Morgan Co., Cleveland, O.

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Bullders' Iron Foundry ("d'Auria"), Providence, R. I.

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HOLLY MFG. CO., 115 B'way, New York. (See adv. index & branch offices, end of book)

International Steam Pump Co., 115 B'way, New York

Lake Erie Engineering Works, Buffalo, N. Y.

MARINE ENGINE & MACHINE CO. ("Groshon"), 230 W 13th, New York. Works, Harrison, N. J. (See adv. index & branch offices, end of book)

MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Morris, I. P. Co., Beach & Ball, Philadelphia, Pa.

Nordberg Mfg. Co., Milwaukee, Wis.

Prescott, Fred. M., Steam Pump Co., West Allis, Wis.

SNOW STEAM PUMP WORKS, 115 B'way, New York. (See adv. index & branch offices, end of book)

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WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)

Weinman Machine Works, Columbus, Ohio.

Wilson-Snyder Mfg. Co., Ross & Water, Pittsburgh, Pa.

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Wood, R. D. & Co., 400 Chestnut, Philadelphia, Pa.

Engines (Hoisting)

(See also Engines, Hoisting, Gas & Gasoline)

ALABAMA.

BIRMINGHAM—Hardle-Tynes Mfg. Co.

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LAMBERT HOISTING ENGINE CO. (See adv. index, end of book)

MUNDY, J. S. (for all Purposes), 10 Beale (See adv. index, end of book)

COLORADO.

DENVER—Davis, F. M. Iron Works Co., Larimer c 8th

Denver Engineering Works Co. (All Kinds), Blake, c 30th

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MASSACHUSETTS.

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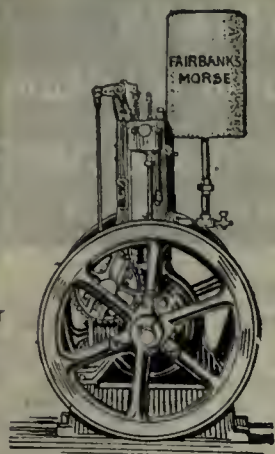
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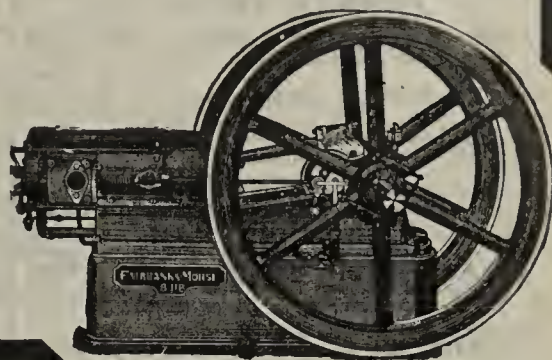
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South St. Louis Foundry Co., 7514 S. B'way
SPRINGFIELD—United Iron Works Co. (For Coal Mines, etc.)

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CLAREMONT—Sullivan Machinery Co. (Corliss Valve Gear, Single & Double Drum)

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Wellman-Seaver-Morgan Co., 7004 Central

COLUMBUS—Columbus Machine Co. av

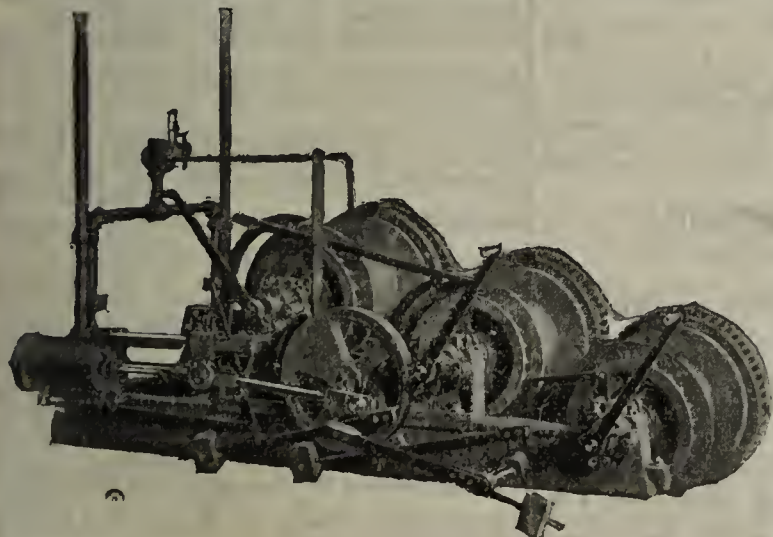
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PENNSYLVANIA.

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MUNDY, J. S. (For All Purposes), 1744 Market. (See adv. index, end of book)
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PITTSBURG—BROWN HOISTING Machinery Co., Frick bldg. (See adv. index & branch offices, end of book)
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Sullivan Machinery Co. (Corliss Valve Gear, Single & Double Drum), Farmers' B'k
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(See also Engines, Hoisting)

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Bates & Edmonds Motor Co., Lansing, Mich.
Byers, John F. Machine Co., Ravenna, O.
Contractors Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
DETROIT HOIST & MACHINE CO. Detroit, Mich. (See adv. index, end of book)
DOBBIE FOUNDRY & MACHINE CO. Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
ELLCOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)
FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)
Hendy, Joshua Works, Bay & Kearney, San Francisco, Cal.
Jefferson Iron Works Co., 7 Jefferson av, Detroit, Mich.
LAMBERT HOISTING ENGINE CO. Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty.

N. Y., & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
McKeown, H. J., 248 Butler, Cincinnati, O.
MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
MONIGHAN MACHINE CO., 813 Carroll av, Chicago, Ill. (See adv. index, end of book)
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)
N. Y. Cableway & Engineering Co., 1 Rector, New York
Patten Mfg. Co., Chattanooga, Tenn.
Pelham Operating Co., 410 W 26th, New York
SHAW, WILLIS CO., 171 LaSalle, Chicago, Ill. (See adv. index, end of book)
Vulcan Iron Works Co., Toledo, Ohio.

Engines (Hoisting, Gas or Gasoline)

Chester Engineering & Machine Co., Chester, Pa.
Columbus Machine Co., Columbus, Ohio.
FAIRBANKS, MORSE & CO. (Gas, Gasoline & Oil), Wabash av & Eldredge pl., Chicago, Ill. (See adv. index, end of book)
Fort Waynes Foundry & Machine Co., Fort Wayne, Ind.
Lake Shore Engine Works Co. (Gasoline, Hoisting & Pumping), Marquette, Mich.
Union Gas Engine Co. ("Union"), San Francisco, Cal.

***Engines (Hoisting, Pneumatic)**

DETROIT HOIST & MACHINE CO. Detroit, Mich. (See adv. index, end of book)

Engines (Hot Air Pumping)

American Machine Co. (Denney Improved Rider-Ericsson), Wilmington, Del.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Demarest, Jno., J., 143 Centre, New York.
Essex & Smith Co. ("Essex"), Buffalo, N. Y.
Lemmey, T. W. B., 410 W 54th, New York
Middlefield Mfg. Co. ("Geauga"), Middlefield, Ohio
Rider-Ericsson Engine Co., 35 Warren, N. Y.
Slocumb, F. F. & Co. (Oscillating), Wilmington, Del.
THOMAS & SMITH ("Economy"), 17 S Carpenter, Chicago, Ill. (See adv. index, end of book)

Engines (Hydraulic, for Blowing Church Organs)

American Steam Pump Co., Battle Creek, Mich.

Engines (Hydraulic Pumping)

(See also Hydraulic Rams)

Niagara Hydraulic Engine Co., 140 Nassau, New York

***Engines (Incline Cableway)**

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

Engines (Kerosene)

(See Engines, Oil)

Engines (Locomotive Traction)

(See Locomotive, Dirt Road)

***Engines (Log Skidding & Loading)**

DETROIT HOIST & MACHINE CO. Detroit, Mich. (See adv. index, end of book)
LAMBERT HOISTING ENGINE CO. 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

ENGINES LOG SKIDDING & LOADING DETROIT HOIST & MACHINE CO DETROIT, MICH.

Engines (Logging)

AMERICAN HOIST & DERRICK CO. St. Paul, Minn. (See adv. index & branch offices, end of book)
Best Mfg. Co. (Traction), San Leandro, Cal.
DETROIT HOIST & MACHINE CO. Detroit, Mich. (See adv. index, end of book)
FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)
Hendy, J. Machine Works, San Francisco, Cal.
LAMBERT HOISTING ENGINE CO. Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)
LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Lima Locomotive & Machine Co., Lima, Ohio.
McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)
McKeown, H. J., 248 Butler, Cincinnati, O.
MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)
MONIGHAN MACHINE CO., 813 Carroll av, Chicago, Ill. (See adv. index, end of book)
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)
Phoenix Iron Works, Portland, Ore.
Portland Iron Works Co., Portland, Ore.
RUSSEL WHEEL & FOUNDRY CO. Detroit, Mich. (See adv. index, end of book)
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Vulcan Iron Works, Wilkes-Barre, Pa.
Vulcan Iron Works Co., Seattle, Wash.
Washington Iron Works Co., Seattle, Wash.
Willamette Iron & Steel Wks., Portland, Ore.

Engines (Marine, Gasoline)
 (See also Engines, Automobile; also Engines, Gas or Gasoline; also Motor Boat, Launch & Yacht Builders)
Alpha Motor & Machine Co., Fall River, Mass.
American Gasoline Motor Co., Baldwinville, Mass.
American Motor Co., Eau Claire, Wis.
Austin Auto Co., Grand Rapids, Mich.
Automatic Machine Co. ("Automatic"), Bridgeport, Conn.
Barber Bros., 101 Grape, Syracuse, N. Y.
Barker, C. L., Norwalk, Conn.
Bauer Bros., 1916 Light, Baltimore, Md.
Belcher Motor Co. ("Belcher" 2 cycle), Fall River, Mass.
Benton, Thomas P. & Son, LaCrosse, Wis.
Boston Gasoline Engine Co. ("Reliance"), Boston, Mass.
Bowen & Quick ("Polly-Allen"), Auburn, N. Y.
Brennan Motor Mfg. Co. (4-cylinder), Syracuse, N. Y.
Bridgeport Motor Co. (Inc.), Bridgeport, Conn.
Brown-Cochran Co. ("Lacy"), Loraine, O.
Brown-Talbot Machinery Co., Old South bldg, Boston, Mass.
Brownell, F. A. Motor Co. ("Monarch"), Rochester, N. Y.
Bruce-Macheth Engine Co., Cleveland, O.
Buffalo Gasoline Motor Co. (2 to 100 h. p., 4 Cycle), 1280 Niagara, Buffalo, N. Y.
Burt Mfg. Co., Kalamazoo, Mich.
Caillie Perfection Co. ("Perfection"), Detroit, Mich.
Camden Anchor-Rockland Machine Co. ("Knox"), Camden, Me.
Chase Yacht & Engine Co., Providence, R. I.
Chester Engineering & Machine Co., Chester, Pa.
Clark Mfg. Co., Fond du Lac, Wis.
Clinton, Walter R. (2 to 60 h. p.), West Haven, Conn.
Clipper Lawn Mower Co. (2 to 8 h. p.), Dixon, Ill.

Columbus Screw & Machine Co., 244 Kaiser, Columbus, O.
Continental Motor Co., Muskegon, Mich.
Cooley Mfg. Co., Waterbury, Vt.
Corliss Gas Engine Co., 227 Folsom, San Francisco, Cal.
Craig, James, 556 W. 34th, New York
Crescent Machine & Tool Co., Indianapolis, Ind.
Cross, M. O., Engine Co., Detroit, Mich.
Crouch, Chas. P. Co. (Inc.) ("Junior"), 152 Lake, Chicago, Ill.
Cushman Motor Co., Lincoln, Neb.
Cyclone Drill Co., Orrville, O.
Daimler Mfg. Co. (Marine & Vehicle), Long Island City & 1777 B'way, New York
De Buren, Henrl, 174 E 75th, New York
Delaware Machine Works, Wilmington, Del.
De Mooy Bros., 1831 E 55th, Cleveland, O.
Detroit Engine Works, Detroit, Mich.
Detroit Gas Engine & Machine Works, 46 E Congress, Detroit, Mich.
Dingfelder Motor Co., Detroit, Mich.
Doman, H. C. Co., Oshkosh, Wis.
DONEGAN & SWIFT ("Economy"), 6 Murray, New York. (See adv. index, end of book)
Du Brie Motor Co., 436 Guolin, Detroit, Mich.
Duluth Gas Engine Works ("Little Giant"), Duluth, Minn.
Dundon's San Francisco Iron Works, San Francisco, Cal.
Dutton Engineering Co., Perth Amboy, N. J.
Easternhouse Engine Co. ("Pearl"), 35 Vernon, Taunton, Mass.
Eclipse Motor Co., Mancelona, Mich.
Enterprise Machine Co., Minneapolis, Minn.
Erd Motor Co. (Gas), Saginaw, Mich.
Evarts Machine Co. (1½ h. p.), 14 Hicks, Hartford, Conn.
FAIRBANKS, MORSE & CO. (Gasoline & Oil), Wabash av & Eldredge pl. Chicago, Ill. (See adv. index & branch offices, end of book)
Fairfield Motor Co. ("Bull Pup"), Fairfield, Conn.
Fay & Bowen Engine Co., Geneva, N. Y.
Ferro Machine & Foundry Co. (Small Sizes), Elfield Bros. ("Capitol"), Cleveland, O.
Filer & Stowell Mfg. Co. ("Beaver"), Milwaukee, Wis.
Fitzhenry, E. L. & Co., 49 Washington, N. Boston, Mass.
Frontier Engine Works, ft of Illinois, Buffalo, N. Y.
Gas Engine & Power Co., & Charles L. Seabury & Co. ("Speedway" also Naphtha), Morris Heights, N. Y.
Globe Iron Works Co. ("White"), Menomonee, Wis.
Goodell, Zlma ("Naumkeag"), Salem, Mass.
Gordon, C. C. & Co., Dubuque, Ia.
Gorham Engineering Co., Alameda, Cal.
Grand Rapids Gas Engine & Yacht Co. ("Monarch"), Grand Rapids, Mich.
Grant-Ferris Co., Troy, N. Y.
Gray Motor Co., 2 Leih, Detroit, Mich.
Gray & Prior Machine Co. ("Hartford"), Hartford, Conn.
Great Lakes Engineering Works, Detroit, Mich.
Greenville Implement Co., Greenville, Mich.
Hall Bros. Gas. Engine Works, 1120 Sgl., Philadelphia, Pa.
Hall Gas Engine & Mfg. Co., Waukegan, Wis.
Harrington-Wiard Co., Batavia, N. Y.
Harvard Marine & Auto Co. ("Harvard"), Elliot st., Cambridge, Mass.
Hasbronck Motor Works (4-cycle Marine, etc.), New London, Conn.
Heinel, H. A., Co. ("Diamond" 4 cycle), Wilmington, Del.
Hercules Gas Engine Wks., San Francisco, Cal.
Herschell-Spillman Co., North Tonawanda, N. Y.
Hildreth Motor & Pump Co., Lansing, Mich.
Holliday Mfg. & Engineering Co., 160 Bunker, Chicago, Ill.
Holmes Motor Co. (4 Cycle), West Mystic.
Horton Boats (Inc.), Rochester, N. Y.
Honie Motor Works, Holyoke, Mass.
Howard Motor Works ("Thoroughbred"), Yonkers, N. Y.
Hnbard Motor Co. (2 & 4 cycle), Middletown, Conn.
Hurd & Haggin ("H. & H."), 316 Hndson, N. Y.
Jager, Chas. J. ("Jager" 4-cycle type), 281 Franklin, Boston, Mass.
Kahlenberg Bros., Two Rivers, Wis.
Kneeland Mfg. Co., Battle Creek, Mich.
Kumherger & Vreeland, 33 Sullivan, New York
Lackawanna Mfg. Co. (Valveless Reversible), Newburgh, N. Y.
Lake Shore Engine Works ("New Superior" 2 & 4 cycle), Marquette, Mich.
Lamb Boat & Engine Co., Clinton, Ia.
Landis, E. M. Gas Engine Works, Toledo, O.
Lathrop, Jas. W. & Co., Mystic, Conn.
Lawrence Machine Co. (2 & 4 cycle), Lawrence, Mass.

Leighton, H. J., Syracuse, N. Y.
Lelaud & Faulconer Mfg. Co., 480 Trombly av., Detroit, Mich.
Light Inspection Car Co., Hagerstown, Ind.
Lozler Motor Co. ("Lozler" 2 & 4-cycle), 55th & B'way, New York
McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)
Marine Power Co., Milwaukee, Wis.
Maxwell & Fitch Co., Rome, N. Y.
Mead Gas Engine Co., Providence, R. I.
Milan Motor Works, Milan, Conn.
Michigan Auto Parts Co., Detroit, Mich.
Michigan Motor Co. (4 cycle), Grand Rapids, Mich.
Michigan Steel Boat Co. (Marine), Detroit, Mich.
Milwaukee Auto Engine & Supply Co., Milwaukee, Wis.
Modern Motor & Machine Co., Detroit, Mich.
Montague Iron Works Co. (Gasoline), Montague, Mich.
Murray & Tregurtha Co., 340 W 1st, S. Boston, Mass.
New London Motor Co., New London, Conn.
N. Y. Yacht, Launch & Engine Co. ("20th Century"), Morris Heights, N. Y.
Noman, H. C., Co., Oshkosh, Wis.
Owen, E. F. ("Swampscott"), Lynn, Mass.
Page Engineering Co. (Oriole Gas), 1109 E. York, Baltimore, Md.
Palmer Bros., Cos Cob, Conn.
Palmer-Moore Marine Co., Syracuse, N. Y.
Parker, J. J., Co., 507 Erie, Fulton, N. Y.
Peerless Marine Engine Co. ("Peerless"), Cham. of Commerce, Detroit, Mich.
Perkins Launch & Motor Co. ("Ronomor"), Gloucester, Mass.
Powell Engine Corporation, 49 Warren, New York
Progressive Mfg. Co. ("Eagle" Explosive Type, 2 & 4 Cycle, 1 to 20 H. P.), Torrington Conn.
Pungs-Finch Auto & Gas Engine Co. ("King" & "Sintz"), Detroit, Mich.
Rathburn-Lacy Co. ("Ralaco," 4 to 100 h. p.), 920 Water, Toledo, O.
Racine Boat Mfg. Co., Muskegon, Mich.
Regal Gasoline Engine Co., Coldwater, Mich.
R. I. Motor Co., Providence, R. I.
Rice, John V. & Co., Bordentown, N. J.
Roberts Motor Co., Clyde, O.
Rochester Gas Engine Co., Rochester, N. Y.
Royal Equipment Co. ("Royal," 2 & 4 Cycle), Bridgeport, Conn.
St. Clair Motor Co., Detroit, Mich.
St. Joseph Iron Works, St. Joseph, Mich.
Sanderson, Wm., Syracuse, N. Y.
Schaeffer, W. E., Ripon, Wis.
Scheppele Machine Works, Dubuque, Ia.
Scripps Motor Co., Trumbull av., Detroit, Mich.
Seitz, F. A., Co., 149 Freylinghuyseu av., Newark, N. J.
Schaefer Mfg. Co., Berlin, Wis.
Sheffield Car Co., Three Rivers, Mich.
Smalley Motor Co. (Ltd.), Bay City, Mich.
Smith Electrical Engineering Co. ("Boynton"), Watertown, N. Y.
Smlth & Mabley (Inc.), ("Simpler"), 7th av & 1765 B'way, New York
Spaulding Engine Co. (2 cycle), St. Joseph, Mich.
Stamford Motor Co. (Inc.) ("Snecker"), Stamford, Conn.
Standard Motor Const. Co. (75 H. P. up), 182 Whiton, Jersey City, N. J.
Sterling Engine Co. (8 to 100 h. p. & 4 Cycle), Buffalo, N. Y.
Stowe Mfg. Co., Wilmington, Del.
Strellinger, Chas. A. Co. (Launch), 96 Bates, Detroit, Mich.
Strellinger Marine Co., 48 E. Fort, Detroit, Mich.
Stuart, John, Co., Wollaston, Mass.
Temple Pump Co., 27 W. 15th Place, Chicago, Ill.
Termaat & Monahan Co. (Reversing), Oshkosh, Wis.
Thomas, E. R., Motor Co., Buffalo, N. Y.
Trenton Malleable Iron Co. ("Rice," 2 & 4 cycle), Trenton, N. J.
Truscott Boat Mfg. Co., St. Joseph, Mich.
Union Gas Engine Co. ("Union"), San Francisco, Cal.
Union Iron Works, Oshkosh, Wis.
United Mfg. Co. ("Little Giant"), Detroit, Mich.
United States Engine Works, Oshkosh, Wis.
Van Anken-Cleavanc Co., Yonkers, N. Y.
Westerfield Motor Co., Anderson, Ind.
Ward-Watson Machine Co. ("Warcoat"), Syracuse, N. Y.
Waterman Out-Board Motor Co., 23 Griswold, Detroit, Mich.
Watkins, Frank M., Mfg. Co., 857 W. 6th, Cincinnati, Ohio
Western Motor Co. ("Rutenber"), Logansport, Ind.
White-Blakeslee Mfg. Co., Birmingham, Ala.
Woodhaven Motor Works ("Louvett" 2 cycle), Woodhaven, N. Y.

Yocum, A. H., & Co. ("Speedwell"), 216 Court, Reading, Pa.
Young, W. J., Machinery Co. ("Essex"), 418 Union, Lynn, Mass.

*Engines (Marine Railway)

MEAD-MORRISON MFG. CO. (Reversible Compound Geared, etc.), Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

Engines (Marine, Steam)

(This Trade is a Duplication of Engines, Steam)

American Ship Building Co., Cleveland, O.
Astoria Iron Works (Inc.), Astoria, Ore.
Atlantic Works, 70 Border, E. B., Boston, Mass.
Bartlett, A. F. & Co., Saginaw, Mich.
Bath Iron Works, Bath, Me.
Brown & Miller, Jersey City, N. J.
Burton & Johnson, 2301 Centre, N. W., Cleveland, Ohio.
Chicago Ship Building Co., 101st & Calumet River, Chicago, Ill.
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Cramp, Wm. & Sons, Ship & Engine Bldg. Co., Phila., Pa.
Detroit Shipbuilding Co., Detroit, Mich.
Dialogue, Jno. H. & Son, Camden, N. J.
Dodge Bros., Detroit, Mich.
Eastern Ship Building Co., Groton Point, Conn.
ELMES, CHAS. F. ENGINEERING Works (Automatic Electric Light), Fulton c Sangamon, Chicago, Ill. (See adv. index, end of book)
Erie Pump & Engine Co. (Reversing), Erie, Pa.
Evans, C. H. & Co., 183 Fremont, San Francisco, Cal.
Fletcher, W. & A. Co., Hudson & 14th, Hoboken, N. J.
Flynn, W. S., 74 Hudson, Jersey City, N. J.
Forbes, W. D. Co., New London, Conn.
Fore River Ship Building Co., Quincy, Mass.
Golden State & Miners' Iron Works, San Francisco, Cal.
Gunnell Machine Co., Manitowoc, Wis.
Hefferman Engine Works, Seattle, Wash.
Herreshoff Mfg. Co., Bristol, R. I.
Honeyman, J. & Co., Portland, Ore.
Kehoe, Wm. & Sons, Savannah, Ga.
King Iron Works (Trout, Henry G., Prop.), 226 Ohio, Buffalo, N. Y.
Lake City Engineering Co., Erie, Pa.
Lake Erie Engineering Works (Hgh Class), Buffalo, N. Y.
Lea, Thos., New Brunswick, N. J.
Lockwood Mfg. Co., E. B., Boston, Mass.
Manistee Iron Works Co., Manistee, Mich.
Manitowoc Dry Dock Co., Manitowoc, Wis.
Maryland Steel Co., Sparrows Point, Baltimore, Md.
Marvel, T. S. Shipbuilding Co., Newburgh, N. Y.
Merrill-Stevens Co., Jacksonville, Fla.
Midvale Steel Co., Main Office & Works, Nicetown Philadelphia, Pa.
Montague Iron Works Co., Montague, Mich.
Moran Co., Seattle, Wash.
MORRIS MACHINE WORKS (1½ to 300 H. P.), Baldwinville, N. Y. (See adv. index & branch offices, end of book)
Nash Bros. & Co., Ogdensburg, N. Y.
New London Marine Iron Works, New London, Conn.
Newport News Ship Building & Dry Dock Co., Newport News, Va.
New York Safety Steam Power Co. (Vertical), 114 Liberty, N. Y.
Northwestern Iron Works, Seattle, Wash.
Orr & Sembower, Reading, Pa.
Palne, Jas. H. & Son., Noank, Conn.
Phoenix Iron Works, Portland, Ore.
Pioneer Machine Works (Jas. Hartley, Prop.), 75 Delevan, Brooklyn, N. Y.
Portland Co. (Compound & Triple Expansion), Portland, Me.
Puget Sound Dry Dock Machine Co., Tacoma, Wash.
Pusey & Jones Co., Wilmington, Del.
Rae, Robert, 55 Liberty, New York
Risdon Iron & Locomotive Works, San Francisco, Cal.
Rogers, Jno. M. Works, Gloucester City, N. J.
Royal Machine Co., 61 N. J. R. R. av., Newark, N. J.
Schantz & Eckert, Perth Amboy, N. J.
Sheriffs Mfg. Co., Milwaukee, Wis.
Smith, Theodore & Sons Co., foot of Essex, Jersey City, N. J.
Sterling Engine Co., 119 Grant, Buffalo, N. Y.
Strond, Humphrey Mfg. Co., Hastings, Minn.
Sullivan, Jno. W. (Compound & Triple Expansion), 827 E 9th, New York
Superior Ship Building Co., Superior, Wis.
Terro Machine & Fdry. Co. (Small Size), Cleveland, O.

Thropp, Jno. E., Sons Co., Trenton, N. J.
Toledo Foundry & Machine Co., Toledo, O.
Toledo Ship Building Co., Toledo, O.
Trout, H. G., 226 Ohio, Buffalo, N. Y.
Union Iron Works Co., San Francisco, Cal.
Vulcan Iron Works Co., Seattle, Wash.
WETHERILL BROS. MACHINE CO., Chester, Pa. (See adv. index, end of book)
White, Robt., Engineering Wks., ft of Columbia Brooklyn, N. Y.
Williamette Iron & Steel Works, Portland, Oregon

Engines (Mining)

(See also Engines, Hoisting; also Engines, Hoisting, Gas & Gasoline; also Hoists; also Locomotives)

Byers, Jno. F. Machine Co., Ravenna, O.
Deuver Engineering Works Co. (Direct Acting), Blake & 30th, Deuver, Colo.
FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)

LAMBERT HOISTING ENGINE CO., Main Office and Works, 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg. Chicago. (See adv. index & branch offices, end of book)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass. (See adv. index & branch offices, end of book)

MONIGHAN MACHINE CO., 813 Carroll av, Chicago, Ill. (See adv. index, end of book)

Morris, I. P. Co. (Hoisting), Beach & Ball, Phila., Pa.

MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)

Nordberg Mfg. Co. ("Nordberg" Hoisting Engines; up to any capacity), Milwaukee, Wis.

SHAW, WILLIS CO. (Hoisting), 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Traylor Engineering Co. (Hoisting), Allentown, Pa.

Engines Mounted on Wheels

(See Engines, Portable on Wheels)

Engines (Naphtha)

Gas Engine & Power Co. & Chas. L. Seabury & Co., Morris Heights, N. Y.

Engines (Oil)

(See also Engines, Alcohol)

Acme Oil Engine Co., Bridgeport, Conn.
American Diesel Engine Co. (Crude & Fuel Oil), 75 to 225 H.-P., 11 B'way, New York

American Foundry Co., Leipsic, O.
American Oil Engine Co. (Kerosene), 57th & B'way, New York.

Ams Max Machine Co. (Kerosene), Mt. Vernon, N. Y.

Atlas Engine Works (Kerosene & Coal Oil), 4 to 30 H. P., 19th & Martindale av, Indianapolis, Ind.

Charter Gas Engine Co., Sterling, Ill.
Detroit Engine Works, Detroit, Mich.
Corliss Gas Engine Co., 227 Folsom, San Francisco, Cal.

De La Vergne Machine Co. ("Hornshy-Akroyd"), ft E 138th, New York

Economist Gas Engine Co. (Crude Oil), San Francisco, Cal.

Empire State Engineering Co., 149 B'way, New York

FAIRBANKS, MORSE & CO. (Kerosene or Crude Oil), Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Fay & Bowen Engine Co. (Kerosene), Geneva, N. Y.

Grand Rapids Gas Engine & Yacht Co. (Kerosene), Grand Rapids, Mich.

Greendale Gas Engine Co., Worcester, Mass.

Imperial Gas Engine Co. (Crude Oil, up to 120 h. p.), 60 Clementina, San Francisco, Cal.

MARINE ENGINE & MACHINE CO. ("Secor" Kerosene, All Sizes), Main Office: 230 W 13th, New York; Works: Harrison, N. J. (See adv. index & branch offices, end of book)

Meltz & Weiss (Gas or Kerosene), 134 Mott New York
New York Kerosene Oil Engine Co., 31 Burlington, New York
Oil Fuel Engine Co., 225 South, New York
Reading Oil & Gas Engine Co., Reading, Pa.
Remington Oil Engine Co. (6 to 40 h. p.), Stamford, Conn.

Rochester Machine Tool Works ("Acme"), Rochester, N. Y.

St. Marys Machine Co., St. Marys, O.
Strang Engine Co. (Kerosene, 3, 5 & 7 h. p., 4 Cycle, Vertical Water Cooled), 140 Dearborn, Chicago, Ill.

Temple Pump Co. ("Master Workman"), 27 W 15th pl, Chicago, Ill.

Union Gas Engine Co., Oakland, Cal.

Weber Gas Engine Co., 700 Delaware, Kansas City, Mo.

Weidenthal-Gosliner Electric Works (Crude Oil), San Francisco, Cal.

*Engines (Oil Well Drilling)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Engines (Pile Driving)

(See also Engines, Hoisting)

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

LAMBERT HOISTING ENGINE CO., 115 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York. (See adv. index & branch offices, end of book)

McKeown, H. J., 248 Butler, Cincinnati, O.

MARYLAND EQUIPMENT & SUPPLY CO., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

MEAD-MORRISON MFG. CO., Cambridge, Boston, Mass. (See adv. index & branch offices, end of book)

MONIGHAN MACHINE CO., 813 Carroll av, Chicago, Ill. (See adv. index, end of book)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)

Engines (Pneumatic)

(See Engines, Compressed Air; also Pneumatic Motors)

Engines (Portable)

This List is duplicated under the head of Engines, Steam.

CALIFORNIA.

SAN FRANCISCO—LAMBERT HOISTING Engine Co., Stewart & Folsom. (See adv. index, end of book)

Risdon Iron Works, Stewart & Folsom
Union Iron Works, 20th & Mich.

GEORGIA.

AUGUSTA—Lombard Iron Works & Supply Co.

ILLINOIS.

AURORA—AMERICAN WELL WORKS. (See adv. index, end of book)

BELLEVILLE—Harrison Machine Works ("Jumbo")

CHICAGO—AMERICAN WELL W'KS., 1st Nat'l Bank bldg. (See adv. index, end of book)

Anderson, Carl Co. (Portable, Gasoline, on Wheels), Huron, n w cor Kingsbury

Bilson, C. H. Co., 359 Lawrence av
LIDGERWOOD MFG. CO. (Hoisting), Old Colony bldg. (See adv. index, end of book)

LOLIET—Bates Machine Co. (See adv. index, end of book)

PEORIA—Avery Co. ("Avery")
Coleman Mfg. Co.

INDIANA.

EVANSVILLE—Heilman Machine Works

INDIANAPOLIS—Atlas Engine Works (10 to 40 h. p.)

Chandler & Taylor Co. (12 to 25 h. p.)
LA PORTE—Rumely, M. Co. (6 to 30 h. p.)

RICHMOND—Gaar, Scott & Co.
Robinson & Co.

IOWA.

RURLINGTON—Murray Iron Works Co. (Semi-Portable)

CHARLES CITY—Hart-Parr Co. (Gasoline)

MASSACHUSETTS.

CAMBRIDGE—MEAD-MORRISON MFG. Co. (See adv. index, end of book)

MICHIGAN.

KALAMAZOO—Clark Engine & Boiler Co. (6 to 25 h. p.)

PORT HURON—Port Huron Engine & Thresher Co. (Simplex & Compound)

MISSOURI.

ST. LOUIS — St. Louis Well Machine & Tool Co., S Newstead av & Wabash R. R.

NEW JERSEY.

HARRISON—NATIONAL HOISTING Engine Co. (See adv. index & branch offices, end of book)

JERSEY CITY—Maslin, Jno. & Son, 165 1st

NEW YORK.

ALBANY—Dedericks, P. K. Sons.

AUBURN—McIntosh, Seymour & Co.

BINGHAMTON—Shapley & Wells (3 to 15 h. p.)

NEW YORK—AMERICAN WELL W'KS., 2 Stone. (See adv. index, end of book)

LIDGERWOOD MFG. CO. (Hoisting), 96 Liberty. (See adv. index, end of book)

New York Engine Co. (6 to 40 H. P.), 165 B'way, Works, Watertown, N. Y.

OSWEGO—Ames Iron Works ("Vim," 6 to 50 h. p.)

SCHENECTADY—Westinghouse Co. (See New York Engine Co. (See New York City)

WATERTOWN—New York Engine Co. (See New York City)

OHIO.

CINCINNATI—Smith, Myers & Schnier (16 to 50 h. p.), 621 W Front

COLUMBIANA—Enterprise Mfg. Co.

DAYTON—Brownell Co. (2 to 40 h. p.)

MANSFIELD—Aultman & Taylor Machinery Co.

MARION—Huber Mfg. Co.

MASSILLON—Russell & Co.

NEWARK—McNamar Machine Works (8 to 40 h. p.)

Scheidler Machine Works Co. (8 to 40 h. p.)

SPRINGFIELD—Kelly, O. S. Co.

PENNSYLVANIA.

ERIE—Bay State Iron Works

Erie City Iron Works (Throttling, 15 to 55 h. p.; also on Skids)

Erie Engine Works (6 to 50 h. p.)

Nagle Engine & Boiler W'ks (6 to 50 h. p.)

Skinner Engine Co. (8 to 40 h. p.)

KENNETT SQUARE—American Road Machine Co.

OIL CITY—Oil City Boiler Works (Inc. (4 to 40 h. p.)

PITTSBURG — WESTINGHOUSE Machine Co., The (5 to 25 h. p.), Westinghouse bldg. (See adv. index, end of book)

SCRANTON—Allis-Chalmers Co.

TATAMY—Messinger Mfg. Co.

WAYNESBORO—Frick Co.

Geiser Mfg. Co. (On Wheels or Sills)

WILLIAMSPORT—WilliamSPORT Gas Engine Co. (Gas & Gasoline)

YORK—Farquhar, A. B. Co. (4 to 50 h. p.)

Hench & Dromgold Co.

TENNESSEE.

CHATTANOOGA—Walsh & Weldner Boiler Co.

JACKSON—Southern Engine & Boiler Works (Inc.) (Portable, on Wheels)

TEXAS.

DALLAS—AMERICAN WELL WORKS. (See adv. index, end of book)

WISCONSIN.

MARINETTE—Stevens, A. W. Co.

RACINE—Case, J. I. Threshing Machine Co.

Engines (Portable Hoisting)

Bacon, Earle C., 26 Cortlandt, New York

Contractors Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

DOBBIE FOUNDRY & MACHINE CO., Main Office & Works, Niagara Falls, N. Y. (See adv. index, end of book)

FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)

Lake Shore Engine Works (Geared), Marquette, Mich.

LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

McKeown, H. J., 248 Butler, Cincinnati, O.
MONIGHAN MACHINE CO., 813 Carroll
 av., Chicago, Ill. (See adv. index, end of
 book)
NATIONAL HOISTING ENGINE CO.,
 Harrison, N. J. (See adv. index & branch
 offices, end of book)

Engines (Portable, on Wheels)

Abernaque Machine Works (Gasoline), West-
 minster Station
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)
 Ames Iron Works ("Vim," Agricultural), Os-
 wego, N. Y.
 Aultman & Taylor Machinery Co., Mansfield, O.
 Buffalo Pitts. Co., Buffalo, N. Y.
 Case, J. I. Threshing Machine Co., Racine, Wis.
 Climax Road Machine Co., Marathon, N. Y.
 Enterprise Mfg. Co., Columbiana, O.
FAIRBANKS, MORSE & CO. (Gasoline),
 Wabash av & Eldredge pl, Chicago,
 Ill. (See adv. index & branch offices, end
 of book)
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Foos Gas Engine Co., Springfield, O.
 Gaar, Scott & Co., Richmond, Ind.
 Huber Mfg. Co., Marion, O.
 Messinger Mfg. Co., Tatamy, Pa.
 Salem Iron Works, Winston Salem, N. C.
 Southern Engine & Boiler Works (Inc.), Jack-
 son, Tenn.
 Union Gas Engine Co. (Gas), San Francisco, Cal.
 Williams Bros., Ithaca, N. Y.
 Williamsport Gas Engine Co. (Gas and Gasoline),
 Williamsport, Pa.

Engines (Pumping)

(See Pumping Machinery)

Engines (Pumping, Gas & Gasoline)

(See also Engines, Gas & Gasoline)

Advance Mfg. Co., Hamilton, O.
 Allman Gas Engine & Machine Co., 29 Sullivan,
 New York
AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)
 Badger Gas & Gasoline Engine Co., Kansas City,
 Kan.
 Brown-Cochran Co., Lorain, O.
 Buckeye Engine & Foundry Co., Joliet, Ill.
 Capital City Gas Engine Co.
 Challenge Co., Batavia, Ill.
 Charter Gas Engine Co., Sterling, Ill.
 Columbus Machine Co., Columbus, O.
FAIRBANKS, MORSE & CO., Wabash av
 & Eldredge pl, Chicago, Ill. (See adv. index
 & branch offices, end of book)
 Famous Mfg. Co., East Chicago, Ind.
 Foos Gas Engine Co., Springfield, O.
 Flinchbaugh Mfg. Co., York, Pa.
 Globe Iron Works Co., Menomonie, Wis.
 Holliday Mfg. & Engineering Co., 160 Bunker,
 Chicago, Ill.
 International Harvester Co. of America (Gasoline),
 Chicago, Ill.
KEWANEE WATER SUPPLY CO., Kewanee,
 Ill. (See adv. index, end of book)
 Lambert Gas & Gasoline Engine Co., Anderson,
 Ind.
McCOY, HENRY J. CO., 65 & 67 Dev,
 New York. (See adv. index, end of book)
 Model Gas Engine Works, Peru, Ind.
 Montague Iron Works Co. (Gasoline), Montague,
 Mich.
 New Era Gas Engine Co., Dayton, O.
 New Way Motor Co., Lansing, Mich.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
 Olds Gas Power Co., Lansing, Mich.
 Otto Gas Engine Works (Gas), 33d & Walnut,
 Philadelphia, Pa.
 Peerless Motor Co., Lansing, Mich.
 Regal Gasoline Engine Co., Coldwater, Mich.
 Root & Vandervoort Engineering Co., East
 Moline, Ill.
 Springfield Gas Engine Co., Springfield, O.
 Standard Pump & Engine Co., Cleveland, O.
 Stickney, Chas. A. Co. (for Railroad Service,
 etc.), St. Paul, Minn.
 Stover Engine Works, Freeport, Ill.
 Warner Elev. Mfg. Co. ("Warner"), Warner, Ill.
 Watrous Engine Works Co., St. Paul, Minn.
 Weber Gas Engine Co., Kansas City, Mo.
 Weinman Machine Works, Columbus, Ohio.
 White-Blakeslee Mfg. Co., Birmingham, Ala.
 Witte Iron Works Co., Kansas City, Mo.
 Williamsport Gas Engine Co., Williamsport, Pa.

Engines (Reversing)

(See also Engines, Rolling Mill)

ALLIS-CHALMERS CO. (Horizontal &
 Vertical), Milwaukee, Wis. (See adv. index
 & branch offices, end of book)
BUCKEYE ENGINE CO., Salem, O.
 (See adv. index & branch offices, end of book)
 Mackintosh, Hemphill & Co., ft. of 12th, Pitts-
 burg, Pa.
 Nordberg Mfg. Co., Milwaukee, Wis.
 Southwark Foundry & Machine Co., Passyunk
 Station, Philadelphia, Pa.
 Tod, Wm. Co. (Twin Cylinder and Twin Tan-
 dem Compound), Youngstown, O.
 Wellman-Seaver-Morgan Co., Cleveland, O.

*Engines (Rocking Valve)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)

Engines (Rolling Mill)

(See also Rolling Mill Machinery)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
 Cooper, C. & G. Co., Mt. Vernon, O.
 Frick Co., Waynesboro, Pa.
 Hooven, Owens & Rentschler Co., Hamilton, O.
 Lane & Bodley Co., Cincinnati, O.
 Mackintosh, Hemphill & Co. (also Blast Fur-
 nace), Pittsburg, Pa.
 Mesta Machine Co., Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHIN-
 ery Co., Minneapolis, Minn. (See adv. in-
 dex & branch offices, end of book)
 Newhold, R. S. & Son Co., Norristown, Pa.
 Nordberg Mfg. Co., Milwaukee, Wis.
 Portland Co., Portland, Me.
 Reading Iron Co., Reading, Pa.
 St. Louis Iron & Machine Works, St. Louis, Mo.
 Southwark Foundry & Machine Co., Phila., Pa.
 Tod, Wm. Co., Youngstown, O.
 Wellman-Seaver-Morgan Co., Cleveland, O.
 Wisconsin Engine Co., Corliss, Wis.

Engines (Self-Oiling)

Erie Mfg. & Supply Co. ("Erie"), Erie, Pa.
 Russell Engine Co., Marsillon, O.

Engines (Steam)

All other Lists of Engine Builders in this
 book are duplicates of this List, excepting
 Engines, Gas & Gasoline of various kinds, and
 Engines, Traction; Engines, Oil; Engines, Hot
 Air; Engines, Hoisting, & Locomotive Build-
 ers.

ALABAMA.

BIRMINGHAM—Birmingham Machine & Foundry
 Co., E B'ham
 Continental Gin Co. (Inc.)
 Hardie-Tynes Mfg. Co.
 Williamson Iron Co.
MONTGOMERY—Janney & Co.
SELMA—Peacock's Iron Works
 Union Iron Works Co.

ARKANSAS.

FORT SMITH—Ketcham Iron Co.
LITTLE ROCK—Wehrfritz, E. C. Machinery &
 Wing & Stephens Co.

CALIFORNIA.

GRASS VALLEY—Taylor Foundry & Engi-
 neering Co.
LOS ANGELES—Fulton Engine Works, Quierola
 & Chavez
 Union Iron Works, Moline c Palmetto
SAN FRANCISCO—California Hydraulic Engi-
 neering & Supply Co., 305 Market
 Cyclops Iron Works, 223 Main
 Evans, C. H. & Co. (Marine), 181 Fremont
 Garratt, W. T. & Co., 138 Fremont
 Golden State & Miners' Iron Works, 231 1st
 Hendy, Joshua Iron Works (Automatic &
 Corliss)
 Jackson, Byron, Iron Works, (Cross Com-
 pound), 411 Market
 Krogh Mfg. Co., 15 Beale
 Murray Bros. Machine Works, 231 Folsom
 Ohmen Engine Works, 17th & Oapp
 Risdon Iron Works, Steuart c Folsom
 Union Iron Works Co. (Automatic), Po-
 vulcan Iron Works, 604 Mission
STOCKTON—Globe Iron Works (Inc.)
 Stockton Iron Works

COLORADO.

DENVER—Card, C. S. Iron Works Co., 1437
 Blake
 Davis, F. M. Iron Works Co., 723 Larimer
 Denver Engineering W'ks Co., Blake c 30th
 McFarlane Mfg. Co.
 Stearns-Roger Mfg. Co., 1718 California

CONNECTICUT.

BRIDGEPORT—American & British Mfg. Co.
 ("Corliss" or "Green Wheelock")
 Coulter & McKenzie Machine Co. (Marine)
 Pacific Iron Works (Inc.) (Automatic)
DERBY—United States Rapid-Fire Gun & Power
 Co. ("Franko")
NEW BRITAIN—New Britain Machine Co.
 ("The Case" Automatic)
NEW HAVEN—Rowland Machine Co.
 Twiss, N. W. (Automatic), 28 Whitney av
NEW LONDON—New London Marine Iron
 Works
 New London Gas & Electric Co.

DELAWARE.

WILMINGTON—Harlan & Hollingsworth Cor-
 poration (Marine or Stationary), ft of
 Pusey & Jones Co. (Stationary) West

FLORIDA.

JACKSONVILLE—Merrill-Stevens Co. (Marine)

GEORGIA.

ATLANTA—Fulton Foundry & Machine Wks
MACON—Schofield, J. S. Sons Co.
NEWNAN—Cole, R. D. Mfg. Co.
SAVANNAH—Kehoe, Wm. & Sons

ILLINOIS.

AURORA—**AMERICAN WELL WORKS.**
 (See adv. index, end of book)
BELLEVIEW—Harrison Machine W'ks ("Jum-
 bo")
CHICAGO—**BUCKEYE ENGINE CO. (of**
 Salem, O.), 204 Dearborn. (See adv. in-
 dex, end of book)
 Chicago Ship Building Co. (Marine), 101st
 & Calumet River
FAIRBANKS, MORSE & CO., c.
 Franklin & Monroe. (See adv. index,
 end of book)
 Haherkamp, Wm., 67 Wells
 New York Blower Co. (Side & Center
 Crank), 25th pl & Stewart av; Works:
 Bucyrus, O.
SHAW, WILLIS CO. (New & Sec-
 ond-Hand), 171 La Salle. (See adv. index,
 end of book)
 Sullivan Machinery Co., R'y Exch bldg
 Vulcan Iron Works (Yacht & Tow Boat)
 28 N Irving av
 Wachs, E. H., Co. (Vertical), 160 Indiana
WESTINGHOUSE MACHINE CO. (of
 Pittsburg, Pa.), 171 La Salle
DECATUR—Oakes, Wm. L.
GALENA—Westwick, John & Son (2 to 20 h. p.)
GALESBURG—Frost Mfg. Co. (Automatic &
 Throttling, up to 200 h. p.)
JOLIET—Bates Machine Co. (Automatic &
 Throttling, up to 200 h. p.)
LITCHFIELD—Litchfield Foundry & Machine Co.
MATTOON—Chuse Engine & Mfg. Co.
PEORIA—Armstrong, Jas. C., Machine &
 Avery Co. Foundry Co.
 Colean Mfg. Co.
SPRINGFIELD—Ide, A. L. & Sons ("Ideal")
 Automatic Self-Oiling, Simple & Com-
 pound)
STREATOR—Graves, L. L.

INDIANA.

ANDERSON—Anderson Foundry & Machine
 Works
ANGOLA—Angola Engine & Foundry Co.
BLUFFTON—Grimes, G. W. Co.
BRAZIL—Crawford & Mc Crimon Co.
EVANSVILLE—Grote Mfg. Co.
 Heilman Machine Works
 Holtz, Ferdinand Co.
FORT WAYNE—Fort Wayne Foundry & Ma-
 chine Co. (Automatic)
INDIANAPOLIS—Atlas Engine Works (Auto-
 matic, 10 to 2,500 h. p.)
 Chandler & Taylor Co. (Automatic Cut-Off,
 Plain Slide Valve, Tandem Compounds,
 Single Valve, Throttling, Simple, Self-
 Contained, Heavy Duty, Splash Oiling,
 High Speed, etc.)
 Howe Engine Co., c Hillside & Bloyd avs
 Sinker-Davis Co., 270 S Missouri
LAFAYETTE—Wallace Machine & Foundry
RICHMOND—Gaar, Scott & Co. (Ltd.) Co.
 Quaker City Machine Co.
 Robinson & Co.
TERRE HAUTE—O'Neil & Son

IOWA.

BURLINGTON—Murray Iron Works Co. (Center Crank, etc.)
CEDAR RAPIDS—Carmody, J. T.
COUNCIL BLUFFS—Sprague Foundry & Mfg. Co. ("Ogden" Automatic)
DES MOINES—Des Moines Mfg. & Supply Co.
MARSHALLTOWN—Shorthill, A. E. Co.
OTTUMWA—Ottumwa Iron Works (also Air)

KANSAS.

ABILENE—Parker, C. W.
ENTERPRISE—Ehrman, J. B. & Sons Mfg. Co.
KANSAS CITY—Riverside Iron Works Co.

KENTUCKY.

COVINGTON—Houston, Stanwood & Gamble Co. (Throttling, Standard, Duty, etc.)
LEXINGTON—Lexington Engine & Saw Mill Works
LOUISVILLE—Grainger & Co., 120 10th Vogt, Henry Machine Co.

LOUISIANA.

NEW ORLEANS—Connell, J. D. Iron Works Co.
Johnson Iron Works (Ltd.), Julia & Delta Murphy, Jno. H., 633 Magazine
SHREVEPORT—Henderson W. K. Iron Works & Supply Co.

MAINE.

BATH—Bath Iron Works
HALLOWELL—Davenport, S. F. (Yacht) Fuller's, G. Sons
MECHANIC FALLS—Penney, J. W. & Sons Co. (Automatic, 8 to 35 h. p.)
PORTLAND—Adde & Co., 59 Kennebec Orr & Jennings, 311 Fore
Portland Co. (10 to 300 h. p.), 58 Fore

MARYLAND.

BALTIMORE—Basshor, Thomas C., Co., 28 Light Codd, E. J. & Co., 700-708 S Caroline, Baltimore, Md.
MARYLAND EQUIPMENT & SUPPLY CO., Calvert & Fayette. (See adv. index, end of book)
Murray, James & Son, 102 E York
Zies, Chas. & Sons, 318 S Fremont av
CUMBERLAND—McKaig, Merwin (10 to 100 h. p.)
SPARROWS POINT—Maryland Steel Co. (Marine, etc.)

MASSACHUSETTS.

BOSTON—Atlantic Works (Marine), 70 Border E. B. Belferson & Peterson Engineering Co., 140 Border, E. B. Fitzhenry, E. L. & Co., 49 Wash'n, N. Lockwood Mfg. Co. (Marine), E. Boston McLaughlin, Geo. G. Mfg. Co. (Automatic), 812 E. 6th
BRIDGEWATER—Continental Gln Co. (Inc.)
CAMBRIDGE—MEAD-MORRISON MFG. Co. (See adv. index, end of book)
FITCHBURG—Brown, C. H. Engine Co. (Automatic)
Fitchburg Steam Engine Co. ("Fitchburg," Automatic, Simple & Compound Vertical, Horizontal & High Speed)
Pntnam Machine Co. (Automatic, 20 to 650 h. p.)
HOLYOKE—Perkins, B. F. & Sons
HYDE PARK—Sturtevant, B. F. Co.
LAWRENCE—Lawrence Machine Co. Lawrence Pump & Engine Co.
QUINCY—Fore River Ship Building Co. (Marine)
SPRINGFIELD—Ford, H. Hannan-Pinton Co.
TAUNTON—Mason Machine Works
WORCESTER—Burlingame, A. Co. (High Speed Automatic & Semi-Portable)
Union Machine Co. (3 to 30 h. p.), 161 Union

MICHIGAN.

ALMA—Montigel, J. M.
ALPENA—Kline, Lewis T.
BAY CITY—Marine Iron Co.
COMSTOCK—Comstock Mfg. Co. ("Climax" Automatic High Speed, Self Contained Center Crank)

DETROIT—American Blower Co., Atwater & Detroit Shipbuilding Co. Orleans
Detroit Steam Engine Co. ("McLachlan")
Dodge Bros., 240 Monroe av
Fuller Co. ("Cornish Cycle" High Speed Automatic or Throttling)
Great Lakes Engineering Works, 308 Atwater e

Murphy Iron Works, ft Walker
GRAND RAPIDS—Leltelt, Adolph Iron Works
HANCOCK—Portage Lake Foundry & Machinery Co. (Stationary & Marine)
KALAMAZOO—Clark Engine & Boiler Co. (Horizontal & Vertical, up to 125 h. p.)
LAPEER—McDonald's, Wm. Sons
MANISTEE—Manistee Iron Works Co. (Twin Feed)
MARQUETTE—Lakeshore Engine Works (Inc.)
MONTAGUE—Moutague Iron Works Co.
MUSKEGON—Rodgers Iron Mfg. Co.
PETOSKEY—Middleditch, Philip
SAGINAW—Bartlett, A. F. & Co. (Corliss, Slide Valve & Hoisting, etc.)
Jackson & Church Co. (Automatic)
Wickes Bros.
ST. JOHNS—Richmond & Holmes

MINNESOTA.

DULUTH—Northwestern Steam Boiler & Mfg. Co.
MANKATO—Mankato Mfg. Co.
MINNEAPOLIS—MINNEAPOLIS STEEL & Machinery Co. (Corliss). (See adv. index, end of book)
Wallof, E. G. Machine Works, 1700 N Washington av

MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
Corinth Engine & Boiler Works

MISSOURI.

JOPLIN—United Iron Works Co.
KANSAS CITY—Stralt, H. N. Mfg. Co. (Corliss, etc.)
ST. LOUIS—Fritz, Geo. J. Foundry & Machine Co., 2008 S 3d
Fulton Iron Works (Corliss, 30 to 5,000 h. p.), 2d & Carr
Johnson-Robinson Mach'y Co. (Corliss), 717 Kingsland Mfg. Co., 1521 N 11th N 2d
Ramming, Jno., Machine Co. (Corliss Automatic & Slide Valve), 300 S Main
St. Louis Iron & Machine Works (Corliss), 126 Chouteau av
St. Louis Steam Engine Co., 16 S Commercial

NEBRASKA.

FREMONT—Fremont Foundry & Machine Co.
LINCOLN—Smith, R. L. Machine Works
OMAHA—Drake-Williams-Mount Co.

NEW HAMPSHIRE.

LANCASTER—Thompson Mfg. Co.
NASHUA—Rollins Engine Co. (Automatic Cut-Off, 20 to 600 h. p.)

NEW JERSEY.

BOUND BROOK—American Engine Co. (American Ball Duplex Compound & Automatic)
BRIDGETON—Cox & Sons Co. (of Phila., Pa.)
CAMDEN—Dialogue, Jno. H. & Son (Marine) New York Ship Building Co.
ELIZABETH—Ball & Wood Co. (Automatic)
GLOUCESTER CITY—Rogers, John M. Works (Marine)
HOBOKEN—Fletcher, W. & A. Co., 3d c Hudson
Forbes, W. D. Co., 1300 Hudson
JERSEY CITY—GRISCOM-SPENCER CO. ("Russell" Automatic & 4 Valve Engines), Grand & Sussex. (See adv. index, end of book)
Miller, Alex. & Bro., ft Morris
Smith, Theo. & Sons Co., ft Essex
NEWARK—Currier, Cyrus & Sons, 365 Market
Hewes & Phillips Iron Works, Orange c Ogden
LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Polmier. (See adv. index, end of book)
MUNDY, J. S., 22 Prospect. (See adv. index, end of book)

Skinner & Leary, 5 Railroad pl
WALSH'S SONS & CO. (See adv. index, end of book)
Watts-Campbell Co. (Improved Corliss), 298 Ogden
PERTH AMBOY—Schantz & Eckert (Marine, etc.)
TRENTON—MacKenzie's Duncan Sons Co.
Reeves Foundry Co. (Vertical, Cross, Compound & Horizontal Single Cylinder)
Thropp, John E. Sons Co. (Marine), ft of Lewis

NEW YORK.

ALBANY—Breslin Bros. 68 Church
Skinner & Arnold Co. (Marine & Stationary), 199 B'way
AUBURN—McIntosh, Scymour & Co. (Automatic, Compound, Triple Expansion, Tandem, etc.)
BALDWINVILLE—MORRIS MACHINE Works (1½ to 350 h. p.). (See adv. index, end of book)
BELMONT—Clark Bros. Co.
BINGHAMPTON—Shapley & Wells (8 to 20 h. p.)
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Buffalo Engine Co., 272 Michigan
Buffalo Forge Co. (High Speed Automatic), 480 B'way
Buffalo Foundry & Machine Co.
Buffalo Pitts Co.
Buffalo Tool & Machine Co., 176 Terrace
Farrar & Trefts (4 to 30 h. p.), 65 Perry
Frontier Engine Works, ft of Illinois
KEIM, JNO. R. MILLS (Inc.), (Twin Cylinder, up to 10 h. p.) (See adv. index, end of book)
Lake Erie Engineering Works (100 to 10,000 h. p.)
Queen City Engineering Co., 49 Illinois
Ruger, J. W. Mfg. Co., 228 Chicago
Whitman Mfg. Co., 180 Ohio
CLYDE—Wood, S. W. & Son
FISHKILL ON THE HUDSON—Fishkill Landing Machine Co. (Corliss)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Pioneer Iron Works, 149 Pioneer
Pioneer Machine Works, 75 Delevan
White, Roht. Engineering Works, ft of Columbia

Boroughs of Manhattan & Bronx.

NEW YORK—AMERICAN WELL WORKS, 2 Stone. (See adv. index, end of book)
American & British Mfg. Co. (of Providence, R. I.), 165 Broadway
Ames Iron Works (16 to 100 h. p.), 85 Liberty, Works, Oswego, N. Y.
Bass Foundry & Machine Co., 100 B'way
Works, Fort Wayne, Ind.
Bates Machine Co., 90 West, Joliet, Ill.
BEGGS, JAMES & CO. (Vertical & Horizontal), 109 Liberty. (See adv. index, end of book)
BUCKEYE ENGINE CO., 39 Cortlandt, Works: Salem, O. (See adv. index, end of book)
Christie Iron Works, 518 E 18th
De La Vergne Machine Co., 138th & E. R.
DONEGAN & SWIFT ("Swifts' Metropolitan" Horizontal), 6 Murray. (See adv. index, end of book)
Erie Engine Works (of Erie, Pa.), 50 Church
Fitchburg Steam Engine Co., 165 B'way.
Works: Fitchburg, Mass.
Frick Co., 30 Cortlandt. Works: Waynesboro, Pa.
Gas Engine & Power Co. & Chas. L. Seabury & Co., Morris Heights
GRISCOM-SPENCER CO. ("Russell" Automatic & 4 Valve Engines), 90 West. (See adv. index, end of book)
G. & W. MFG. CO., 26 Cortlandt. (See adv. index, end of book)
Hamilton-Low Co. (to Order Only), 145 E 42d
Harrisburg Foundry & Machine Works, 114 Liberty, Works: Harrisburg, Pa.
Hooven, Owens, Rentschler Co. (100 to 500 h. p.), 39 Cortlandt. Main Office: Hamilton, O.

ENGINES

—ALL—

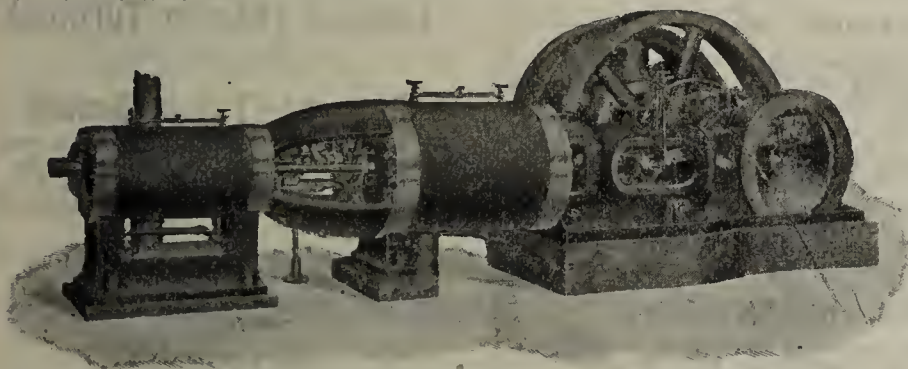
STYLES

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SIDE CRANK ENGINES. VERTICAL & HORIZONTAL CENTRE CRANK
AND AUTOMATIC HIGH SPEED ENGINES. Write for Catalog.

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Four-Stroke Cycle, Double Acting Tandem
GAS ENGINE.



Tandem Compound Direct Connected
STEAM ENGINE.

FOR sixty-two years the name BUCKEYE has represented the highest in quality in engine design and construction.

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BUCKEYE ENGINE CO., SALEM, OHIO, U. S. A.

New York	Birmingham	Chicago
Philadelphia	Pittsburg	New Orleans
Boston	Cleveland	St. Paul
Baltimore	Cincinnati	Denver
	Wichita, Kans.	

Houston, Stanwood & Gamble Co., 42 B'way Works: Covington, Ky.
HOWARD & MORSE ("Solano"
High Speed), 45 Fulton. (See adv. fac-
ing first page of Index of Contents)
Ide, A. L. & Sons (of Springfield, Ill.), 11
B'way
LAMBERT HOISTING ENGINE CO.
(of Newark, N. J.), 30 Church. (See adv.
index, end of book)
McIntosh, Seymour & Co., 50 Church.
Works: Auburn, N. Y.
MacKenzie, Quarrier & Ferguson, 114 Lib-
erty
New York Engine Co. (High Speed, Cor-
liss, Throttling & Slow Speed Single,
Double & Four Valve & Automatic), 165
Broadway. Works: Watertown, N. Y.
N. Y. Safety Steam Power Co. ("Auto-
matic," 15 to 200 h. p.), 114 Liberty
Oil City Boiler Works (Inc.) (of Oil City,
Pa.) (20 to 150 h. p.), 39 Cortlandt
Phoenix Iron Works Co. (Automatic, 20
to 600 h. p.), 135 B'way, Works: Mead-
ville, Pa.
Providence Engineering Works (of Provi-
dence, R. I.), 50 Church
Rothchild Engine Co., 102 Centre
St. Louis Iron & Machine Works (of St.
Louis, Mo.), 135 B'way
Skinner Engine Co. (of Erie, Pa.), 90
West
Star Drilling Machine Co. (Upright) (of Ak-
ron, O.), 104 Fulton
Straight Line Engine Co. (of Syracuse,
N. Y.), 90 West
Struthers-Wells Co., 50 Church. Works,
Warren, Pa.
Sturtevant, B. F. Co., 131 Liberty, Works,
Hyde Park, Mass.
Sullivan, Jno W. (Marine), 827 E 9th
WESTINGHOUSE MACHINE CO.,
The, 8 Bridge; Works: East Pittsburg,
Pa.
Wisconsin Engine Co. (of Corliss, Wis.),
95 Liberty

Borough of Queens.

LONG ISLAND CITY—L. I. Machine & Marine
Construction Co., ft of East av
(End of New York City)

OGDENSBURG—Nash Bros. & Co.
OSWEGO—Ames Iron Works ("Vim & Regal"
Automatic, Regel Throttling, Automatic
High Speed, 10 to 500 h. p.)
Kingsford Foundry & Mach. Works
ROCHESTER—Rochester Machine Tool Works
SYRACUSE—Barber Bros., 500 E Water
Sanderson, Wm., 307 W Willow
Straight Line Engine Co. (25 to 125 h. p.),
218 S Geddes
Syracuse Supply Co., Syracuse, N. Y.
TONAWANDA—Glille Machine Co.
Mahar, Jno.
TROY—Knowlson & Kelly
UTICA—Utica Steam Engine & Boiler Works
VERNON—Pohl, Geo. D. Mfg Co.
WATERTOWN—New York Engine Co. (See
New York City)
WELLSVILLE—Clark & Norton Mfg. Co.
McEwen Bros. (5 to 50 h. p.)

NORTH CAROLINA.

CHARLOTTE—Liddell Co. (Inc.) (Automatic)
Mecklenburg Iron Works
GREENSBORO—Sergeant Mfg. Co.
HIGH POINT—High Point Machine Works
WINSTON SALEM—Salem Iron Works (Centre
Crank)

OHIO.

AKRON—Star Drilling Machine Co. (Upright)
Star Drilling Machine Co. (Upright)
Taplin, Rice, Clerkin Co.
Wellman-Seaver-Morgan Co. (Automatic,
Corliss, Holsting, etc.)
BUCYRUS—New York Blower Co. (Slide & Cen-
ter Crank). See Chicago, Ill.
CANTON—Knight Mfg. Co.
CINCINNATI—BUCKEYE ENGINE CO.
(of Salem, O.), 111 Ingalls bldg. (See
adv. index, end of book)
Frisbie Engine & Machine Co., 35 E Water
Fritsch, Francis Mfg. Co., 223 W McMicken
av
Greenwald, I. & E. Co. (Automatic & Throt-
tling, Simple & Compound), 720 E Pearl
Lane & Bodley Co. (Slide Valve, etc.)
Randle Machinery Co., Power & O. H. & D.
R'y

Smith, Myers & Schnier Co., 621 W Front
Steigert, Leopold, cor Elder & Logan
CLEVELAND—American Ship Building Co. 2017
Bruce-Macbeth Engine Co. Superior av
BUCKEYE ENGINE CO. (of
Salem, O.), New England bldg. (See adv.
index, end of book)
Kilby Mfg. Co. (Automatic), 49th & Lake-
side av
Lord, Bowler Co., 1004 Center av
McMyler Mfg. Co., 1799 Columbus rd, N. W.
Ohio Blower Co., 324 Prospect av
Wellman-Seaver-Morgan Co. (Automatic,
Corliss, Holsting, etc.)
COLUMBIANA—Enterprise Mfg. Co. (Auto-
matic, 25 to 200 h. p.); Center Crank, 25
to 45 h. p.)
DAYTON—Brownell & Co. (Automatic &
Dayton Engine Works Slide Valve)
HAMILTON—Hooven, Owens, Rentschler
Company
IRONTON—Ironton Engine Co. ("Allfree,"
High Speed)
LIMA—Golley & Finley Iron Works
MANSFIELD—Aultman & Taylor Machinery Co.
MARIETTA—Pattin Bros. Co.
MARION—Huber Mfg. Co. (Single & Double, 5
to 30 h. p.)
MASSILLON—Russell Engine Co. (Automatic,
Self-Oiling, Four Valve & Single Valve)
MOUNT VERNON—Cooper, C. & G. Co. ("Cor-
liss", "Rolling Mill")
NELSONVILLE—Nelsonville Foundry & Machine
NEWARK—McNamar Machine Works Co.
Scheidler Machine Works Co.
POMEROY—Pomeroy Machine Co.
SALEM—BUCKEYE ENGINE CO. (Au-
tomatic, etc., 15 to 10,000 h. p.). (See
adv. index, end of book)
SPRINGFIELD—Kelly, O. S. Co.
Lefel, James & Co. (Automatic, 10 to 50
h. p., also Throttling)
TOLEDO—Toledo Foundry & Machine Co., 202-
Toledo Ship Building Co. 218 Cherry
WARREN—McMyler Mfg. Co.
WELLSVILLE—Stevenson Co.
YOUNGSTOWN—United Engineering & Foun-
dry Co.
ZANESVILLE—Griffith & Wedge Co.

OREGON.

ALBANY—Albany Iron Works
ASTORIA—Astoria Iron Works
PORTLAND—Honeyman Hardware Co., 304 Front
Phoenix Iron Works (Marine), Hawthorne
av & E 3d
Portland Iron Works, 493 Northrup
Willamette Iron & Steel Works

PENNSYLVANIA.

BANGOR—FLORY, S. MFG. CO. (Slide Valve, etc.). (See adv. Index, end of book)
BRADFORD—Bovalrd & Co. (book)
Bovalrd & Seffang Mfg. Co.
Caldwell, E. R. & Co.
BUTLER—Evans Mfg. Co.
CHAMBERSBURG—Chambersburg Engineering Co.
CHESTER—WETHERILL BROS. Machine Co. (See adv. index, end of book)
Wetherill, Robt. & Co. (Stationary)
CONNELLSVILLE—Connellsville Machine & Car Co.
CORY—Ajax Iron Works
Climax Mfg. Co. (Double Cylinder Automatic High Speed)
DANVILLE—Danville Foundry & Machine Co.
DUBOIS—DuBois, John E.
EAST STROUDSBURG—Stauffer, Geo. E.
ERIE—Bail Engine Co. (Single Valve, Automatic, 25 to 600 h. p.)

Bay State Iron Works
Erie City Iron Works (Four Valve Automatic Cut-off, High & Medium Speed, Single Valve, Automatic Cut-off & Throttling Governor Engines)
Erie Engine Works (Automatic Cut-off, etc.)
Erie Mfg. & Supply Co. ("Erie" Self Oil-ing, Automatic)

Erie Pump & Engine Co.
Link, E. M. Machinery Co.
Nagle Engine & Boiler Works (6 to 50 h. p.)
Skinner Engine Co. ("Automatic," 8 to 60 h. p.)
HAMBURG—Snell & Meharg (h. p.)
HARRISBURG—Harrisburg Fdy. & Machine Works ("Fleming" Slide & Center Crank, Automatic)

KENNETT SQUARE—American Road Machine Co.

LANCASTER—Central Machine Works (Horizontal Slide Valve)

LEBANON—Weimer Machine Works Co.
MAHANOY CITY—Grant Iron Works

MEADVILLE—Phoenix Iron Works Co. (Automatic, 20 to 600 h. p.)

MOUNT CARMEL—Mount Carmel Iron Wks. (Slide Valve)

NORRISTOWN—Newbold, R. S. & Son Co. (Slide Valve)

OIL CITY—Oil City Boiler Works (Inc.) (20 Oil Well Supply Co. to 150 h. p.)

PHILADELPHIA—Balzley, Jno. Iron Works, 514 S Del av

Corliss Engine Works, 4041 N 5th
Cramp, Wm. & Sons Ship & Engine Bldg. Co. (Marine)

GRISCOM-SPENCER CO. ("Russell" Automatic & 4 Valve Engines), ft Washington av. (See adv. index, end of book)

Naylor, Jno. S., Front & Girard av
Rich, J. & G., 120 N 6th

Southwark Foundry & Machine Co. ("Porter"—"Allen," Automatic, 4 Valve) Washington av.

PITTSBURG—BUCKEYE ENGINE CO. (of Salem, O.), Arrott bldg. (See adv. index, end of book)

CARLIN'S, THOS. SONS, CO., 1610 River av (North Side). (See adv. index, end of book)

Combination Engine Co., 3148 Penn av.
Mackintosh, Hemphill & Co. (Heavy Rolling Mills, etc.), ft of 12th

Mesta Machine Co.
Milholland, J. & J. B. Co. (Holsting, hauling, etc.) 718 5th av

Mnroe, R. & Sons Mfg. Corporation, 23d & Smallman

OIL WELL SUPPLY CO., 215 Water. (See adv. index, end of book)

Phillips & McLaren, 24th & Smallman
Rees, Jas. & Sons Co., 4th & Duquesne way

WESTINGHOUSE MACHINE CO., The, Westinghouse bldg. (See adv. index, end of book)

POTTSVILLE—Sparks & Parker

READING—Greth Machine Works (Inc.), (8 to Orr & Sembower (Inc.) 15 h. p.)
Reading Iron Co.

Reading Scale & Machine Co.

RIDGWAY—Ridgway Dynamo & Engine Co. (McEwen)

SCOTSDALE—Scottdale Foundry & Machine Co. (Corliss)

SCRANTON—ALLIS-CHALMERS CO.

(See adv. index, end of book)

Finch Mfg. Co.

SHAMOKIN—Mullen, John & Son

STROUDSBURG—Stroudsburg Engine Works

TATAMY—Messinger Mfg. Co. (Automatic, 3 to 25 h. p.)

TITUSVILLE—Titusville Iron Co.

Young, E. R. & Sons

TROY—Troy Engine & Machine Co. (Jno. A. Parsons, Prop.)

TYRONE—Stine, J. C. Co. (Haulage, etc.)

WARREN—Struthers-Wells Co. (30 to 70 h. p.)

WAYNESBORO—Frick Co. (Automatic)

Gelsler Mfg. Co. ("Old Honesty," 8 to 30 h. p.)

WILKES-BARRE—Shepherd Engineering Co. (Heavy Duty-Single & Multiple Expansion, 10 to 1,000 H. P.)

WILLIAMSPORT—Rotafuss-Howard Iron Works

Valley Iron Works (Inc.) (Automatic, High Speed, Electric, Enclosed, Self-Oiling)

YORK—Farquhar, A. B. Co. (Ltd.) (Centre Crank)

Hench & Dromgold Co.
Motter, Geo. F. & Sons
York Mfg. Co.

RHODE ISLAND.

BRISTOL—Herreshoff Mfg. Co. (Marine)

HOPE VALLEY—Nichols & Langworthy Machine Co.

PAWTUCKET—Cole Bros

PROVIDENCE—American & British Mfg. Co.

("Corliss" or "Green Wheelock")

Cruikshank Engine Co., 286 Dyer

Excelsior Steam Eng. & Machine Co., 32

Fuller Iron Works

Friendship

Harris, Wm. A. Steam Engine Co. (Corliss)

Providence Engineering Works ("Rice" & "Sargent" & Improved "Greene")

SOUTH CAROLINA.

ANDERSON—Anderson Machine & Foundry Co.

CHARLESTON—Charleston Iron Works

Valk & Murdoch Iron Works

COLUMBIA—Willis, John A.

SPARTANBURG—Morgan Wood & Iron Works

TENNESSEE.

CHATTANOOGA—Casey-Hedges Co.

Lookout Boiler & Mfg. Co.

Walsh & Weidner Boiler Co.

Wheland Machine Works (Centre & Slide Valve)

JACKSON—Southern Engine & Boiler Works

(Corliss Slide Valve & Center & Slide Crank)

MEMPHIS—Chickasaw Iron Works

Ellis, Wm. C. & Sons, Iron Works, 439 Shelby

NASHVILLE—Nashville Machine Co.

Stewart & Bruckner Co.

TEXAS.

DALLAS—AMERICAN WELL WORKS.

(See adv. index, end of book)

EL PASO—MINNEAPOLIS STEEL & Machinery Co., 505 Guaranty Trust Bldg.

(See adv. index, end of book)

FORT WORTH—Van Zandt-Moore Iron Works

GALVESTON—Astell Iron Works Co.

McDonough Iron Works

Walsh & Cleary

SIHERMAN—Washington Iron Works

UTAH.

SALT LAKE CITY—Silver Bros. Iron Works

Trent Engineering & Machinery Co. Co.

VIRGINIA.

ALEXANDRIA—Altheson, J. & H.

NEWPORT NEWS—Newport News Ship Build-ing & Dry Dock Co. (Marine)

PORTFOLK—Duvall, Geo. W. & Co.

Godwin, Thos. W. & Co.

Smith & McCoy

WASHINGTON.

SEATTLE—Heffernan Engine Works

Moran Co.

Northwestern Iron Works

Vulcan Iron Works

Washington Iron Works Co. (Slide Valve)

SPOKANE—National Iron Works (Inc.)

Union Iron Works (Inc.)

TACOMA—Puget Sound Iron & Steel Works.

A c 21st

WEST VIRGINIA.

CLARKSBURG—Osborne, J. F. & Sons

PARKERSBURG—U. S. Engine Co.

WISCONSIN.

CORLISS—Wisconsin Engine Co.

EAU CLAIRE—Phoenix Mfg. Co. (Heavy Duty, Rocking Valve Slide)

FOND DU LAC—Giddings & Lewis Mfg. Co.

MANITOWOC—Richards Iron Works

MILWAUKEE—ALLIS-CHALMERS CO.

(Corliss, Simple Compound, Tandem & Triple Expansion, etc.) (See adv. index, end of book)

Bayley Mfg. Co., 732 Greenbush

Filer & Stowell Co. (Slide Valve, Rocking Valve, etc.)

National Blower Works (Horizontal), 17th & St. Paul av.

Nordberg Mfg. Co. (Corliss, Blowing, Hoisting, Reversing, etc.)

Schneck Machine Co., 809 St. Paul av

VILTER MFG. CO., 1046 Clinton.

(See adv. index, end of book)

OSHKOSH—United States Engine Works

RACINE—Pierce Engine Co.

RHINELANDER—Rhineland Iron Co.

SHEBOYGAN—Optenberg Iron Works Co.

SUPERIOR—Superior Ship Building Co. (Marine)

Engines (Steam Turbine)

(See Turbines, Steam)

Engines (Toy or Small)

H. K. Electric Toy Co. ("H. K." Electric Toy

Engines & Novelties), Indianapolis, Ind.

Slipp Electric & Machine Co. (1/4 to 2 h. p.), Paterson, N. J.

Engines (Traction)

(See also Agricultural Implement Manufacturers)

CALIFORNIA.

POMONA—Pomona Mfg. Co. (Gasoline)

SAN LEANDRO—Best Mfg. Co. (For Freight-

STOCKTON—Holt Mfg. Co.

ILLINOIS.

AURORA—AMERICAN WELL WORKS.

(See adv. index, end of book)

BELLEVILLE—Harrison Machine Works

("Jumbo")

PEORIA—Avery Co. ("Avery")

Coleman Mfg. Co.

Wright Machine Co.

INDIANA.

COLUMBUS—Reeves & Co.

EVANSVILLE—Hellman Machine Works

LA PORTE—Rumely, M. Co. (8 to 12 h. p.)

MOUNT VERNON—Keck-Gonnerman Co.

RICHMOND—Gaar, Scott & Co.

Robinson & Co. (Inc.) ("Conqueror")

IOWA.

CHARLES CITY—Hart-Parr Co. (Oil Cooled Gasoline)

DES MOINES—Wood Bros. Steel Self-Feeder Co.

WATERLOO—Cascaden Mfg. Co. ("Win-neshlek")

MICHIGAN.

BATTLE CREEK—Advance Thresher Co.

Nichols & Shepard Co.

LANSING—Olds Gas Power Co. (Gasoline)

PORT HURON—Port Huron Engine & Thresher Co. (Simple & Compound)

MINNESOTA.

MINNEAPOLIS—Minneapolis Threshing Machine Co.

STILLWATER—Northwest Thresher Co. ("New Giant," "Northwest" Double Cylinder Cross Compound)

NEW YORK.

ALBANY—Dederick's, P. K. Sons

BATAVIA—Bidwell, C. H. Thresher Co.

BUFFALO—Buffalo Pitts Co.

GROTON—Monarch Road Roller Co. ("Mon-

NEW YORK CITY.

Boroughs of Manhattan & Bronx.

McCOY, HENRY J. CO., 65 & 67 Dey,

(See adv. index, end of book)

SCHENECTADY—Westinghouse Co.

OHIO.

COLUMBUS—Columbus Machine Co. (Gasoline)
HAMILTON—Empire Machine Co.
MANSFIELD—Aultman & Taylor Machinery Co. ("Atlas," "Eureka," "Eureka, Jr., "Hercules," "Jupiter," 8 to 25 h. p. Spur Gear)
MARION—Fairbanks Steam Shovel Co. ("Loba")
Huber Mfg. Co. ("New Huber." Single & Double, 5 to 30 h. p.)
Marion Mfg. Co. ("Leader")
MASSILLON—Russell & Co.
NEWARK—McNamar Machine Works
Scheidler Machine Works Co. (10 to 16 h.p.)
SPRINGFIELD—Kelly, O. S. Co.
SWANTON—Baker, A. D. Co. ("Baker" Special Contractors' Engines)

PENNSYLVANIA.

ELK LICK—Improved Traction Engine Co.
TATAMY—Messinger Mfg. Co.
WAYNESBORO—Frick Co. ("Eclipse," "Eclipse, Junior," Wood & Coal)
Geiser Mfg. Co. ("Peerless," Wood & Coal)
WRIGHTSVILLE—Dissinger, C. H. A. & Bro.
YORK—Farquhar, A. B. Co. (Ltd.) ("Pennsylvania")

WEST VIRGINIA.

PARKERSBURG—United States Engine Co.

WISCONSIN.

MARINETTE—Stevens, A. W. Co.
MILWAUKEE—VILTER MFG. CO., 1046 Clinton. (See adv. index, end of book)
RACINE—Case, J. I. Threshing Machine Co.

Engines (Traction, Gasoline)

Abenaque Machine Works ("Abenague") Westminster Sta., Vt.
Advance Mfg. Co. ("Hamilton Advance"), Ham- ilton, O.
AMERICAN WELL WORKS ("Aurora"), Aurora, Ill. (See adv. index & branch offices, end of book)
Angola Engine & Foundry Co., Angola, Ind.
Badger Gas & Gasoline Engine Co., Kansas City.
Bawroth Bros., Springfield, O.
Bissinger, C. H. A. & Bro. ("Capital"), Wrightsville, Pa.
Eagle Mfg. Co., Appleton, Wis.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
Famous Mfg. Co. ("Champion"), East Chicago, Ind.
Flinchbaugh Mfg. Co. ("York"), York, Pa.
Foos Gas Engine Co., Springfield, O.
Hart-Parr Co., Charles City, Ia.
Kinnard-Haines Co. ("Flour City"), Minneapolis, Minn.
Lambert Gas & Gasol'e Eng. Co., Anderson, Ind.
Lauson, C. P. & J. Co. ("Badger"), Milwaukee Wis.
Ohio Mfg. Co., Upper Sandusky, Ohio.
Otto Gas Engine Works, Phila., Pa.
Pomona Mfg. Co., Pomona, Cal.
Rockford Engine Works, Rockford, Ill.
Springfield Gas Engine Co., Springfield, O.
Stover Engine Works, Freeport, Ill.
Waterous Engine Works Co., St. Paul, Minn.

*Engines (Triple Expansion Pumping)

DEANE STEAM PUMP CO., 115 B'way, New York. (See adv. index & branch offices, end of book)
SNOW STEAM PUMP WORKS, 115 B'way, New York. (See adv. index & branch offices, end of book)

Engines (Vertical)

This list is duplicated under the head of Engines, Steam.

CALIFORNIA.

SAN FRANCISCO—FAIRBANKS, MORSE & Co., 158-1st. (See adv. index, end of book)
Union Gas Engine Co. (Gas)
Union Iron Works (25 to 100 h. p.)

CONNECTICUT.

NEW HAVEN—Twiss, Nelson W., 28 Whitney av. (2 to 25 h. p.)

ILLINOIS.

AURORA—AMERICAN WELL WORKS. (See adv. index, end of book)
CHICAGO—FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl. (See adv. index, end of book)
New York Blower Co., 25th pl & Stewart av. Works, Bucyrus, O.
JOLIET—Bates Machine Co., (Automatic High Speed)

MASSACHUSETTS.

FITCHBURG—Fitchburg Steam Engine Co. (20 to 180 h. p.)
FLORENCE—Norwood Engineering Co. (2 to 50 h. p.)
HYDE PARK—Sturtevant, B. F. Co. (Open or Closed Type)
LAWRENCE—Lawrence Machine Co. (High Lawrence Pump & Engine Co. Speed)
NEWBURYPORT—Davis, F. E. (2 to 20 h. p.)

MICHIGAN.

ALMA—Montigel, J. M.
COMSTOCK—Comstock Mfg. Co. ("Climax" Automatic)
DETROIT—Great Lakes Engineering Works (Slide Crank, Marine, etc.)
KALAMAZOO—Clark Engine & Boiler Co. (horizontal and vertical, up to 125 h. p.)
Dutton, C. H. Co. (2 to 10 h. p.)
Hill, Wm. E. & Co. (Automatic)
SAGINAW—Wickes Bros.

MISSOURI.

ST. LOUIS—Fulton Iron Works, 2d & Carr St. Louis Steam Engine Co. (Single & Double Self-Contained), 16 S Commercial

NEW JERSEY.

EAST NEWARK—(See Newark)
ELIZABETH—Ball & Wood Co.
JERSEY CITY—Maslin, John & Son, 165 1st
NEWARK—Seymour & Whitlock, N. J. R. R. av

NEW YORK.

AUBURN—McIntosh, Seymour & Co.
BALDWINVILLE—MORRIS MACHINE Works (1½ to 275 h. p.)
FISHKILL ON THE HUDSON—Fishkill Land- ing Machine Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Pioneer Iron Works, 153 William

Boroughs of Manhattan & Bronx.

NEW YORK—AMERICAN WELL W'KS. 2 Stone. (See adv. index, end of book)
BLAKE, GEO. F. MFG. CO., 115 B'way. (See adv. index, end of book)
DONEGAN & SWIFT ("Swift's Acme"), 6 Murray. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., 133 Liberty. (See adv. index, end of book)
KNOWLES STEAM PUMP W'KS. 115 B'way. (See adv. index, end of book)
McCOY, HENRY J. CO., 65 & 67 Dey, (See adv. index, end of book)
N. Y. Safety Steam Power Co. (2 to 100 h. p.), 114 Liberty

OHIO.

BUCYRUS—New York Blower Co. (See Chicago, Ill)
ORRVILLE—Cyclone Drill Co.
HAMILTON—Hooven, Owens, Rentschler Co.
RAVENNA—Byers, John F. Machine Co.
SANDUSKY—Klotz Machine Co. (10 to 50 h. p.)
SPRINGFIELD—Leffel, James & Co. (3 to 6½ h. p.)

PENNSYLVANIA.

CORRY—Climax Mfg. Co. (6 to 100 h. p.)
ERIE—Erie Mfg. & Supply Co.
Erie Pump & Engine Co.
Nagle Engine & Boiler Works (4 to 20 h.p.) Stearns Co.
PHILADELPHIA—Rich, J. & G., 120 N 6th
Southwark Foundry & Machine Co., Wash- ington av c 5th

READING—Orr & Sembower (Inc.)
TATAMY—Messinger Mfg. Co.
YORK—Farquhar, A. B. Co. (Ltd.) York Mfg. Co.

RHODE ISLAND.

PROVIDENCE—Cruickshank Engine Co. (2 to 35 h. p.)

WISCONSIN.

MILWAUKEE—ALLIS-CHALMERS CO. (All Sizes). (See adv. index, end of book)
National Blower Works, 17th & St. Paul, av
RACINE—Racine Engle & Machine Co. (Small)
SHEBOYGAN—Optenberg Iron Works Co.

Engines (Winding)

Hendy, Joshua Iron Works (Air, Electric, Hydraulic & Steam Driven), San Francisco, Cal.
Sullivan Machinery Co. (For Hoisting & Haul- ing), Railway Exch bldg, Chicago, Ill.
Wellman-Seaver-Morgan Co. (Direct Acting), Cleveland, O.

Engines (Yacht or Launch)

(See Engines, Marine, Gasoline; also Engines, Oil)

*Entrances (Copper & Bronze Covered)

THORP FIRE PROOF DOOR CO. ("Thorp- Richardson"), 1600-1610 Central av, Min- neapolis, Minn. (See adv. index & branch offices, end of book)

Envelope Mfrs. (Catalogue, Mer- chandise & Tag)

American Envelope Co., West Carrollton, O.
American Mfg. Co. (Tag), Battle Creek, Mich.
American Paper Goods Co. (Package), Ken- sington, Conn.
American Tag Co. (Tag), 6133 State, Chicago, Ill.
Berkowitz Envelope Co., Kansas City, Mo.
Berlin & Jones Envelope Co., 136 William, New York
Birnie Paper Co., Springfield, Mass.
Carpenter, W. B. & Co., 422 Main, Cincinnati, Ohio
Chicago Envelope Co. (Merchandise), 63 Mar- ket, Chicago, Ill.
Clasp Envelope Co. (Package), 109 Leonard, New York
Cohen, Chas. J. & Son, 312 Chestnut, Phila- delphia, Pa.
Cupples, Sam'l, Envelope Co., 7 Laight, New York
Gair, Robert Co., Washington c Plymouth, Brooklyn, N. Y.
Goodbody, Wm. (Mailing), 505 W B'way, New York
Hartford Mfg. Co., Hartford, Conn.
Hinde & Dauch Paper Co. (Corrugated Paper), Sandusky, O.
Hults, E. H., Jr., 25 N 6th, Philadelphia, Pa.
Hurd, George B. & Co., 425 Broome, New York
Illinois Envelope Co., Kalamazoo, Mich.
Improved Mailing Case Co. (Letter & Pack- age), 158 W B'way, New York
Jeffrey, Louis (Metallic Clasp Merchandise), 78th & Brunswick av, Phila, Pa.
Landa, A. & Co. (Leather & Cloth Docu- ment), 3640 N Clark, Chicago, Ill.
Lavette, H. C. (Patent Photo Mailing), 214 S Clinton, Chicago, Ill.
Modern Mfg. Co. (Metal Clasp), 543 N Law- rence, Phila., Pa.
Nagara Envelope Mfg. Co., Buffalo, N. Y.
Neostyle Envelope Co. (Merchandise), 88 Reade, New York
Powers Paper Co., Holyoke, Mass.
Raynor & Perkins Envelope Co. (Letter), 220 William, New York
Russell, R. Y. & Son Co. (Mailing), Chelsea, Mass.
Security Envelope Co. (Hand Fold), Minne- apolis, Minn.
Sewell-Clapp Mfg. Co. (Merchandise), 52 S Desplaines, Chicago, Ill.
Spangler, E. J. & Co., 507 Ludlow, Philadel- phia, Pa.
Taylor-Atkins Paper Co., Burnside, Conn.
Tension Envelope Co. (Package), 22 Reade, New York
Union Envelope Co., Richmond, Va.
United States Envelope Co., Springfield, Mass.
United States Paper Goods Co., 229 W Pearl, Rochester, N. Y.
Whiting Paper Co., Holyoke, Mass.

Envelopes (Pliable Metal)

Modern Mfg. Co., 543 N Lawrence, Phila., Pa.

Equalizers or Eveners

Rock Island Plow Co., Rock Island, Ill.

*Eradicators for Tracing Cloth

SOLTMANN, E. G.

("Inkoff")—Washes Black Waterproof Ink Off Like Washing Off a Slate, 125 E 42d, New York. (See adv. index, end of book)

Eradicators (Ink)

HARDMUTH, L. & C. ("Ideal"), 34 E 23d, New York. (See adv. index, end of book)

Sonneborn, L. Sons (Inc.), "Amalla" for Desks, Office Furniture, etc., 262 Pearl, New York

*Erasers (Draughtsmen's)

COATES CLIPPER MFG. CO. (Electric), Worcester, Mass. (See adv. index, end of book)

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Erasers (Ink)

Canton Cutlery Co., Canton, O.
Landers, Frary & Clark (Inc.), New Britain, Conn.

Millier Bros. Cutlery Co. (Steel), Meriden, Conn.
Napanoch Knife Co., Napanoch, N. Y.
Ross, Jos., Jr., & Co., Newark, N. J.
Schnefel Bros., 51 4th, Newark, N. J.

Erasers (Rubber)

American Lead Pencil Co., 43 W 4th, New York

DIXON, JOS. CRUCIBLE CO. (for Pencil or Ink), Jersey City, N. J. (See adv. index & branch offices, end of book)

Eagle Pencil Co., 377 B'way, New York
Faber, A. W., Newark, N. J.
Faber, Eberhard, 299 B'way, New York
Goodrich, B. F. Co., Akron, O.

Escalators

(See Stairways, Moving)

Escutcheon Pins

American Pin Co. (Brass), Waterbury, Conn.
AMERICAN STEEL & WIRE CO. (Brass & Steel), Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Blake & Johnson Co., Waterbury, Conn.
Corbin Screw Corporation (Steel or Brass), New Britain, Conn.

Globe Mfg. Co., Taunton, Mass.

Grammes, L. F. & Sons (Brass or Iron), Allen town, Pa.

Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.

Hassall, John (Brass, Iron, Steel, German Silver, Tinned, etc.), 171 Lafayette, New York

Havell Mfg. Co. (Brass & Steel), Newark, N. J.

HUNGERFORD, U. T. BRASS & COPPER CO. (Brass & Iron), 497 Pearl, New York

MERCHANT & EVANS CO. (Inc.) (Brass), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Milwaukee Tack Co., Milwaukee, Wis.

Perkins, Henry Co., Bridgewater, Mass.

Piume & Atwood Mfg. Co., Waterbury, Conn.

Plymouth Mills (Brass & Iron), Plymouth, Mass.

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Taunton Wire Nail Co., Taunton, Mass.

Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.

TURNER & SEYMOUR MFG. CO. (and Rivets), Torrington, Conn. (See adv. index, end of book)

Waterbury Brass Co., Waterbury, Conn., & 89 John, New York

Waterbury Mfg. Co. (Brass), Waterbury, Conn.

Wire Goods Co. (Iron & Brass), Worcester, Mass.

Escutcheons

Russell & Erwin Mfg. Co. (Cabinet Furniture, Sliding Door & Wood), New Britain, Conn., & 96 Lafayette, New York

Yaie & Towne Mfg. Co. (Cabinet, Door, etc.), 9 Murray, New York

Escutcheons (Wood, Key Hole)

Piqua Handle & Mfg. Co., Piqua, O.

Evaporators

(See also Evaporators, Multiple Effects, under the head of Sugar Machinery; also Furnaces, Evaporator)

Babcock Mfg. Co. ("Granger," "Otsego" Fruit), Leonardsville, N. Y.

Beil, C. S. Co. ("Beil," "Cook's" & "Rocky," Maple Sugar & Sorghum), Hillisboro, O.

Black & Clawson Co., Hamilton, O.

Blymer Iron Works Co. ("Zimmerman" Fruit, "Cook's" & "Santa Clara" Sugar), Spring Grove av & Terrace pl, Cincinnati, O.

Boomer & Boschert Press Co. ("Boomer & Boschert" Cider), Syracuse, N. Y.

Buffalo Foundry & Machine Co., Buffalo, N. Y.

Caedonia Bean Harvester Works ("Caedonia"), Caedonia, N. Y.

Casey-Hedges Co. (Multiple Effects), Chattanooga, Tenn.

Champion Evaporator Co. ("Champion" Cider, Maple Sugar & Sorghum), Hudson, O.

Chattanooga Plow Co. ("Zimmerman" Fruit, "Cook's" Sugar), Chattanooga, Tenn.

Connell, J. D. Iron Works Co. (Sugar), New Orleans, La.

Cook Cane Mill & Evaporator Co. ("Cook's" Sugar, Maple Sugar & Sorghum), St. Louis, Mo.

Densmore Bros. (Fruit, etc.), Red Wing, Minn.

Fahrney, Edw. B. ("U-S Cook-Stove," Fruit, etc.), Waynesboro, Pa.

Fiora Fruit Evaporator Co. (Fruit), For, Ill.

Gardner, Jno. T. (Fruit), Oxford, Mich.

Gowando Agricultural Works Co. ("Gowanda," Maple Sugar & Sorghum), Gowanda, N. Y.

Grimm, G. H. ("Champion" Maple Sugar & Sorghum), Rutland, Vt.

GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av, Phila., Pa. (See adv. index & branch offices, end of book)

Reilly Multicoil Evaporators

Multiple effect, using live or Exhausted Steam.

SPECIAL DESIGN FOR ICE PLANTS

Heating surface of Tinned Copper Coils, fastened to headers by screwed ground union joints.

THE GRISCOM-SPENCER CO.
90 West Street, NEW YORK, N. Y.

Hydraulic Press Mfg. Co. ("South Allen" Cider), Mt. Gilead, O.

Munnsville Plow Co. ("Duplex," "20th Century," for Fruit, Hops, etc.), Munnsville, N. Y.

Murkland, J. W. ("Murkland" Maple Sugar & Sorghum), Barton, Vt.

Palmer & Co. (Fruit), Noble, Ill.

Schmidt, Joslin & Co. (Vacuum & Special for Liquors, etc.), Cincinnati, O.

Sebastian Bros. (Fruit), Odin, Ill.

Southern Plow Co. (Sugar), Columbus, Ga.

Squier, Geo. L. Mfg. Co. (Sugar), Buffalo, N. Y.

Stahl, Wm. Evaporator Co. ("Excelsior" Fruit), Quincy, Ill.

Stutzman, D. ("Stutzman," "Orma's" Fruit), Ligonier, Ind.

Vermont Farm Machine Co. ("Williams" Maple Sugar & Sorghum), Belows Falls, Vt.

Warren Evaporator Works ("I-X-L" Maple Sugar & Sorghum; Milton Mathews, Prop.), Warren, O.

White, S. R. & Bro. ("Cook's" Sugar), Norfolk, Va.

Evaporators & Fresh Water Distilling Apparatus

Davidson, W. T. ("Baird" Patents for Steam Vessels, Chemical Works, etc.), 43 Keap, Brooklyn, N. Y.

GRISCOM-SPENCER CO. ("Reilly" Multicoil), 90 West, New York, & ft. Washington av, Philadelphia, Pa. (See adv. index & branch offices, end of book)

*Excavators (Placer Mining)

HAYWARD CO., THE, 50 Church, New York. (See adv. index, end of book)

*Excavators (Railroad)

HAYWARD CO., THE, 50 Church, New York. (See adv. index, end of book)



STAR BRAND ESCUTCHEON PINS

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***Excavators (Skid)**

HAYWARD CO., THE, 50 Church,
New York. (See adv. index, end of book)

***Excavators (Steam)**

(See also Shovels, Steam)

HAYWARD CO., THE, 50 Church,
New York. (See adv. index, end of book)

JEFFREY MFG. CO., Columbus, O. (See
adv. index & branch offices, end of book)

KILGORE-PETELER CO., Minneapolis,
Minn. (See adv. index, end of book)

**Excavators (Steel, Revolving
Boom)**

Heyworth, James O. ("Heyworth-Newman")
Drag Line Bracket Excavator, Harvester
bldg, Chicago, Ill.
Page, John W., Security bldg, Chicago, Ill.

Excelsior Mfrs.

Acme Mfg. Co., Harvey, Ia.
Alpena Excelsior Co. (Also Wood Wool), Alpena,
Mich.

American Fibre Co. (Palm Leaf Mattress), Jack-
sonville, Fla.

Bartlett Bros., Melvin Falls, N. H.
Bearman, John M., Fort Scott, Kan.

Berry, O. P. Co., Wolfboro Falls, N. H.
Boston Excelsior Co., 26 Canal, Boston, Mass.

Burnside Excelsior Co., Burnside, Ky.
Charleston Excelsior M. & B. Factory, Charles-
ton, S. C.

Coffeyville Excelsior Mfg. Co., Coffeyville, Kan.
Demarest & Burlison, Butler, N. J.

Detroit Excelsior Works, Detroit, Mich.
Du Pere Mfg. Co., Atlanta, Ga.

Farnham, J. F., Union, N. H.
Flexo Mfg. Co., Kausas City, Mo.

Fox, J. W. Excelsior Co., Grand Rapids, Mich.
Gulf Red Cedar Co. (Red Cedar), Mobile, Ala.

Guttenberg Excelsior Mfg. Co., Guttenberg, Ia.
Hahn, J. F., Lancaster, Pa.

Hoadley Excelsior Co., Honesdale, Pa.
Hoffman-Corr Mfg. Co. (also Moss), 55 White,
Holbert, J. G., Westcolang, Pa.

Hoornbeek, Jno. C., Wawarsing, New York
Huffman, Theo. P. & Co., 648 W 34th, New
York

Hutchins, Frank, Wolfboro Falls, N. H.
Johnson-Smith Excelsior Co., Indianapolis, Ind.

Keogh Exc. Mfg. Co., Chicago, Ill.
Klein, Phillip, Evansville, Ind.

Lord, W. M. Co., Union, N. H.
Meridian Mattress Factory, Meridian, Miss.

Nesmith, C. S., Reeds Ferry, N. H.
Park Falls Mfg. Co., Park Falls, Wis.

Payne & Co., Dayton, O.
Peters & Roberts Furniture Co., Portland, Ore.

Rice Lake Excelsior Co., Rice Lake, Wis.
Shreveport Mfg. Co., Shreveport, La.

Standard Excelsior Works (Pine), Atlanta, Ga.
Tompkinson, C. V., Lebanon, Vt.

Virginia Excelsior Co., Fredericksburg, Va.

Exhaust Heads

ABENDROTH & ROOT MFG. CO.
("Root" & "Hudson"), Newburgh, N. Y.
(See adv. index & branch offices, end of book)

Abendroth & Stein (Inc.) ("Stein's" 1 in. to
42 in.), 39 Cortlandt, New York

Ambrose Machine Co. ("Peerless"), Provost,
Brooklyn, N. Y.

AMERICAN SPIRAL PIPE WORKS.
W 14th & 48th av, Chicago, Ill., & 50
Church, New York. (See adv. index, end of book)

Atwood & Morrill ("XX Century"), Salem
Bolton, R. P., 527 5th av, New York Mass.

Burt Mfg. Co. ("Burt" & "Standard"), Akron,
Ohio

Chicago Eng. Supply Co. ("Champion"), 112
Lake, Chicago, Ill.

Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end
of book)

Direct Separator Co. ("Sweet"), Syracuse,
N. Y.

Dixie Mfg. Co. ("Dixie"), Baltimore, Md.
Empire Blower & Pipe Co., 8 Furnace, Roches-
ter, N. Y.

GARDNER GOVERNOR CO. ("Gardner"),
Quincy, Ill. (See adv. index, end of book)

Gillis & Geoghegan ("Hoey"), 537 W B'way,
New York

Hoppes Mfg. Co. (Cast Iron), Springfield, O.
Hussey, McCann & Co., 87 Warren, New York

Huxley, C. E., & Co. ("Huxley" Cast Iron),
91 W Randolph, Chicago, Ill.

INDUSTRIAL INSTRUMENT CO.
("Eclipse"), Foxboro, Mass. (See adv.
index & branch offices, end of book)

Johnston, W. T. & Co., Cincinnati, O.
Kelley Benj. F. & Son, 120 Liberty, N. Y.

Kruger & Blind Co. (Centrifugal), 511 Master,
Philadelphia, Pa.

Lee, Thomas, 130 W 2d, Cincinnati, O.
Liberty Mfg. Co., Pittsburg, Pa.

Littleford Bros., 453 E Pearl, Cincinnati, O.
Leow Mfg. Co., Cleveland, O.

Lyman, W. C., 49 Michigan, Chicago, Ill.
Miller, J. K. Co. ("Western"), Seattle, Wash.

Ohio Blower Co. ("Swartout"), Cleveland, O.
Patterson, Frank L. & Co., 26 Cortlandt, N. Y.

PITTSBURGH GAGE & SUPPLY CO.
("Pittsburgh," Vacuum), 30th & Liberty
av, Pittsburgh, Pa. (See adv. index, end of
book)

Prentice, L. H. Co., 34 Sherman, Chicago, Ill.
Robertson, Jas. L. & Son, (Inc.), 48 Warren,
New York

Rutzler, E. Co., 127 White, New York
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

SHAW, BENJ. F. CO., Wilmington, Del.
(See adv. index, end of book)

SIMMONS, JOHN CO., 110 Centre, New
York. (See adv. index, end of book)

Simonds Heating & Specialty Co. ("Simonds"),
Sims Co., Erie, Pa. Detroit, Mich.

Sorge, A., Jr. Co., Monadnock bldg., Chicago,
Standard Steam Specialty Co. (Utility), 542 W
B'way, New York

Steam Appliance Co. (Atmospheric Condensing),
Milwaukee, Wis.

Sterling Blower & Pipe Mfg. Co., Hartford,
Conn.

Strandwitz & Scott ("Common Sense"), Cam-
den, N. J.

Sturtevant, B. F. Co., Hyde Park, Mass.
THOMAS & SMITH (Inc.), 17 S Car-
penter, Chicago, Ill., & 288 Hudson, New
York. (See adv. index, end of book)

Thompson, Richard & Co., 126 Liberty, N. Y.
Unique Engineering Co. ("Unique" Turbine),
100 Hinsdale, Brooklyn, N. Y.

Watson & McDaniel Co. ("McDaniel," "Key-
stone"), 146 N 7th, Phila., Pa.

Whitlock Coil Pipe Co., Hartford, Conn.
Wright Mfg. Co. (Cyclone), 55-59 Woodbridge,
W. Detroit, Mich.

Young Bros. Co. ("The Cyclone"), 263 Franklin,
Detroit, Mich.

Exhaust & Blow Piping

Abendroth & Stein (Inc.) (Straight Riveted
Flanged), 39 Cortlandt, New York

Allington & Curtis Mfg. Co., Saginaw, Mich.
AMERICAN SPIRAL PIPE WORKS.
W 14th & 48th av, Chicago, Ill., & 50
Church, New York. (See adv. index,
end of book)

Astle, H. J. & Co., Providence, R. I.
Banister, A. W., 35 Wareham, Boston, Mass.

Buffalo Forge Co., Buffalo, N. Y.
Cincinnati Exhaust & Blow Pipe Co., 324 W
3d, Cincinnati, O.

Clark & Miller Co., Seattle, Wash.
CLASON ARCHITECTURAL METAL
Works, 428 Kinsley av, Providence, R. I.
(See adv. index, end of book)

Cyclone Blow Pipe Co., 70 W Jackson boul.
Chicago, Ill.

Dixie Mfg. Co., Baltimore, Md.
Empire Blower & Pipe Co., Rochester, N. Y.

Garden City Fan Co., Fisher bldg, Chicago, Ill.
Haines & Co., 747 W. Lake, Chicago, Ill.

Hartford Blower Co., Hartford, Conn.
Lee, Thos., 130 W 2d, Cincinnati, O.

Littleford Bros., Cincinnati, Ohio.
Lyman, W. C., 49 Michigan, Chicago, Ill.

Mannen & Esterly Co., 2247 St. Clair, Cleve-
land, O.

Meadon's, T. J. Son, 51 Greenpoint av, Brook-
lyn, N. Y.

National Blower Works, 17th & St. Paul av,
Milwaukee, Wis.

New Orleans Roofing & Metal Works, 926 La-
fayette, New Orleans, La.

Ohio Blower Co., Cleveland, O.
Porbeck, Otto, 2017 B'way, St. Louis, Mo.

Savannah Blow Pipe & Exhaust Co., Savannah,
Ga.

SHAW, BENJ. F. CO., Wilmington, Del.
(See adv. index, end of book)

Skinner Bros., 1013 N B'way, St. Louis, Mo.
Skinner, D. B. & Bro., 1948 N 9th, St. Louis,
Mo.

Spiral Riveted Tube Co., 74 Cortlandt, New
York, & Jersey City, N. J.

Sterling Blower & Pipe Mfg. Co., Hartford,
Conn., & 85 Liberty, New York

Sturtevant, B. F. Co., Hyde Park, Mass.
United States Blowpipe & Hydraulic Works,
Pacific blk, Seattle, Wash.

Venderbush & Looman, Detroit, Mich.
Wulff, W. C. & Co., Louisville, Ky.

Exhausters (Electric)

GENERAL ELECTRIC CO., Schenectady,
N. Y., & 30 Church, New York. (See adv.
index & branch offices, end of book)

Green Fuel Economizer Co., General Office &
Works: Matteawan, N. Y., & 1218 West
Street bldg, New York

MECHANICAL APPLIANCE CO., Mil-
waukee, Wis. (See adv. index & branch
offices, end of book)

Sprague Electric Co., 527 W 34th, New York
WESTINGHOUSE ELECTRIC & MFG.
Co., Union Bank bldg., Pittsburg Pa. (See
adv. index & branch offices, end of book)

Exhausters (Gas)

American Blower Co., Detroit, Mich.
Buffalo Forge Co., Buffalo, N. Y.

Couersville Blower Co., Couersville, Ind.
Cornell, J. B. & J. M., 26th & 11th av, New York

Garden City Fan Co., Fisher bldg, Chicago,
Gas Machinery Co., Cleveland, O. Ill.

GAS POWER CO., 2 Rector, New
York. (See adv. index, end of book)

Green Fuel Economizer Co., General Office &
Works: Matteawan, N. Y., & 1218 West
Street bldg, New York

Isbell-Porter Co. ("Mackenzie"), Newark, N J
Kerr-Murray Mfg. Co., Fort Wayne, Ind.

National Blower Works, Milwaukee, Wis.
New York Blower Co., 25th pl & Stewart av,
Chicago, Ill.; Works: Bucyrus, O.

Parson Mfg. Co. ("Parson"), 299 B'way, N. Y.
Piqua Blower Co., Piqua, O.

Roots, P. H. & F. M. Co. (& Fittings), Con-
nersville, Ind.

Schutte & Koertling Co., 1251 N 12th, Phila.,
Pa.

Sturtevant, B. F. Co., Hyde Park, Mass.
Wilbraham-Green Blower Co., 2518 Frankford,
Phila., Pa.

Exhausters (Planing Mill, Etc.)

Allington & Curtis Mfg. Co., Saginaw, Mich.
American Blower Co., Detroit, Mich.

Banister, A. W., 35 Wareham, Boston, Mass.
Bayley Mfg. Co., Milwaukee, Wis.

Buffalo Forge Co., Buffalo, N. Y.
Champion Blower & Forge Co., Lancaster, Pa.

Cornell, J. B. & J. M. Co., 26th & 11th av,
New York

Garden City Fan Co., Fisher bldg, Chicago, Ill.
Green Fuel Economizer Co., General Office &
Works: Matteawan, N. Y., & 1218 West
Street bldg, New York

Hartford Blower Co., Hartford, Conn.
Indiana Fan Co., Indianapolis, Ind.

Miller, J. K. Co. ("Western"), Seattle, Wash.
waukee, Wis. (See adv. index, end of book)

National Blower Works, Milwaukee, Wis.
New York Blower Co., 25th pl & Stewart av,
Chicago, Ill.; Works: Bucyrus, O.

Sterling Blower & Pipe Mfg. Co., Hartford,
Conn.

Sturtevant, B. F. Co., Hyde Park, Mass.

**Exhausters (Pump & Engine
Starting)**

Schutte & Koertling Co., 1251 N 12th, Phila.,
Pa.

Exhausters (Steam Jet)

(See also Gas Works Apparatus & Construction)

Continental Iron Works, West & Cayler, Brook-
lyn, N. Y.

Isbell-Porter Co., Newark, N. J.
Kerr-Murray Mfg. Co. (also Rotary), Fort
Wayne, Ind.

Lloyd Construction Co., Detroit, Mich.

Expanders (Hose)

Glazier Nozzle & Mfg. Co., 501-502 Commer-
cial Club bldg, Indianapolis, Ind.

Hayward, S. F. & Co., 39 Park pl., New
York

***Expanders (Locomotive Tire)**

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of
book)

Expanders (Tube)

Ajax Mfg. Co. ("The Collus" Self-Feed & Roller), Pittsburg, Pa.
 Bullock, Chas. K. (Roller), 1361 Ridge av., Canton Tool Co., Paris, Ill. Phila., Pa.
 Dangel, W. H. & Co. ("Lucas"), 140 Dearborn, Chicago, Ill.
DONEGAN & SWIFT, 6 Murray, New York, (See adv. index, end of book)
DUDGEON, RICHARD (Boiler), 24 Columbia, New York. (See adv. index, end of book)
 Faessler, J., Mfg. Co. ("Boss Roller," "Universal" Roller Flue, etc.), Moberly, Mo.
 Hayes Tool Co., 41 Cross, Portland, Me.
HELWIG MFG. CO. ("Helwig" Hand & Power Self-Feeding Flue), St. Paul, Minn. (See adv. index, end of book)
 Henderer's, A. L. Sons ("Ferguson," Self-Feed Roller), Wilmington, Del.
IRVING MFG. & TOOL CO. (J. F. McCoy, Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)
 Lovejoy Tool Works (All Steel Ball Bearing Self-Feeding Roller, for Hand or Power, also Sectional Spring), Chicago, Ill.
 Lovekin Pipe Expanding & Flanging Machine Co. ("Lovekin," Flue Expanding Tool), 421 Chestnut, Phila., Pa.
 Nicholson, W. H. & Co. ("Nicholson" Self-Feeding & Self Releasing Roller), Wilkes-Barre, Pa.
 Oswego Tool Co. ("The World's Champion" Spring, "Boss," "Giles" & "Tonkin"), Oswego, N. Y.
 Place Mfg. Co. ("McGraw"), Oswego, N. Y.
 Prosser, Thos. & Son, 15 Gold, New York
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)
 Wiedeke, Gustav & Co. ("Ideal," Self-Feed Roller, "Montgomery," "Dayton" & Standard" Rollers, & Sectional Spring), Dayton, O.

Exploders

(See Blasting Fuses, Caps, etc.)

Exploders (Cartridge)

Susquehanna Casting Co., Wrightsville, Pa.

*Express Company Call

ELEVATOR SUPPLY & REPAIR CO., 76 W. Monroe, Chicago, Ill.; 114 Liberty, New York, & 593 Market, San Francisco, Cal. (See adv. index & branch offices, end of book)

EXPRESS CALL
SIGNALLING EXPRESS WAGONS
FROM OFFICES
ELEVATOR SUPPLY & REPAIR CO.
 114 LIBERTY ST. 76 W. MONROE ST.
 NEW YORK CHICAGO
 593 MARKET ST., SAN FRANCISCO, CAL.

Extractors (Broken Tap)

Atlas Machine Co. ("Atlas"), Providence, R. I.
 Walton Co. ("Walton"), Hartford, Conn.

Extractors (Cyanide Vat)

Blaisdel Co., Los Angeles, Cal.

Extractors (Mandrel)

Union Foundry & Machine Co., Pittsburg, Pa.
 United Engineering & Foundry Co. (Hydraulic & Belt Driven), Farmer Bk. bldg. Pittsburg, Pa.

Extractors (Meat Juice)

Wrightsville Hardware Co. ("Brighton"), Wrightsville, Pa.

Extractors (Oil)

(See Oil & Grease Extractors; also Separators, Steam & Oil)

Extractors (Tar)

Isbell-Porter Co. ("Aeso," "P. & A." for Water Gas), Newark, N. J.

Extractors (Weed)

(See Hooks, Weeding.)

Extracts (Bark)

Marden, Orth & Hastings (Hemlock, Palmetto, Oak, etc.), Boston, Mass.
 Miller Tanning Extract Works, Millerton, New Brunswick, Canada

Extracts (Dyewood)

Innis, Spelden & Co., 46 Cliff, New York
 Klipstein, A. & Co., 122 Pearl, New York
 Lewis, Jno. D., Providence, R. I.
 Marden, Orth & Hastings, Boston, Mass.
 Metz, H. A. & Co., 122 Hudson, New York
 National Aniline & Chemical Co., 100 William, New York
 Stamford Mfg. Co. (Logwood, etc.), 82 Wall, New York; Factory: Stamford, Conn.

Extracts (Indigo)

Cochrane Chemical Co., Boston, Mass.

Extracts (Tanning)

Marden, Orth & Hastings (Quebracho, etc.), Boston, Mass.
 New York Tanning Extract Co. (Quebracho, etc.), 17 Battery pl, New York
 Stamford Mfg. Co. (Quebracho, etc.), 82 Wall, New York & Stamford, Conn.

Eyelet Mfrs.

American Ring Co., Waterbury, Conn.
 Caseley & Nimes, Taunton, Mass.
 Halkyard Mfg. Co., Providence, R. I.
 Hughes Eyelet Co., Taunton, Mass.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Rhodes, J. C. & Co. (Inc.), New Bedford, Mass.
 Rimmon Mfg. Co., Seymour, Conn.
 Sibley, E. L., Bennington, Vt.
 Stimpson's, Edwin B. Sons (All Kinds), 31 Spruce, New York
 Tubular Rivet & Steel Co., Boston, Mass.
 United Shoe Machinery Co., 205 Lincoln, Boston, Mass.
 Waterbury Brass Co., Waterbury, Conn., & 99 John, New York
 Waterbury Button Co., Waterbury, Conn.

Eyelet Sets

Johnson, W. S. (Heidenberg Works), Newark, N. J.

Eye Shades

(See Goggles & Eye Protectors)

Fabricators (Steel Building)

(See Steel Structural Work)

Facing Arms

Underwood, H. B. & Co. (Portable), 1027 Hamilton, Phila., Pa.

Fan Blowers

(See Blower Manufacturers)

Fan Controllers (Electric)

(See Controllers, Fan)

Fans (Battery Motor)

Electric Motor & Equipment Co. ("Beaver"), Newark, N. J.
 Jones & Gross Electric Co., 62 Vesey, New York
 Kendrick & Davis ("Ajax," "Standard," "Kent"), Lebanon, N. H.
 Knapp Electric & Novelty Co. ("Kenco"), 511 W. 51st, New York
 Manhattan Electric Supply Co., 17 Park Pl., New York
 Ohio Electric Works, Cleveland, O.

Fans (Ceiling)

(See Fans, Ceiling Belted; also Fans, Ceiling, Electric; also Fans, Water Motor)

Fans (Ceiling, Belted)

Bates, D. L. & Bro. Co., Dayton, O.
 Dayton Fan & Motor Co., Dayton, O.
 Hunter Fan & Motor Co. ("Tuerk's"), Fulton, N. Y.
 McLeod, Ward & Co. ("Vau Houten"), 27 Thames, New York
 Ochsner, A. & Son, New Haven, Conn.
 Seymour, J. M., Jr., Newark, N. J.

Fans (Ceiling, Electric)

Adams Electric Co. (Direct Current), Trenton, N. J.
 Bates, D. L. & Bro. Co. (Direct Current), Dayton, Ohio
 Century Electric Co. ("Century," Alternating Current), St. Louis, Mo.



Starting rheostats and speed controllers for motor driven fans and blowers. **THE CUTLER-HAMMER MFG. CO. Milwaukee**

Dayton Fan & Motor Co. (Direct Current), Dayton, O.
 Diehl Mfg. Co. (Direct Current), Elizabeth, N. J.
 Emerson Electric Mfg. Co. ("Trojan," "Emerson," Alternating & Direct Current, Stationary & Portable), 2030 Washington av., St. Louis, Mo.
 Fidelity Electric Co. (Direct Current), Lancaster, Pa.
 Fort Wayne Electric Works (Direct Current, Portable), Fort Wayne, Ind.
GENERAL ELECTRIC CO. (Direct Current), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Hunter Fan & Motor Co. ("Tuerk," Direct & Alternating Current), Fulton, N. Y.
 Jandus Electric Co. ("Gyro," Alternating & Direct Current), Cleveland, Ohio
 National Electric Supply Co. ("Crescent," Direct Current), Washington, D. C.
 Peerless Electric Co. ("Peerless," Direct Current), Warren, Ohio
 Robbins & Myers Co. ("Standard," Direct & Alternating Current), Springfield, Ohio
 Sprague Electric Co. ("Lundell," Direct Current), 527 W 34th, New York
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Fans (Centrifugal)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 New York Blower Co., 25th pl & Stewart av., Chicago, Ill.; Works: Bucyrus, O.
 Stine, S. B., Osceola Mills, Pa.

Fans (Desk & Office)

(See Fans, Electric, Portable, Alternating Current; also Fans, Electric Portable, Direct Current)

Fans (Electric Disc, Direct Connected)

American Blower Co. ("A B C," "Cyclone"), Detroit, Mich.
 Colonial Fan & Motor Co., Warren, O.
 Crocker-Wheeler Co., Amper, N. J.
 Diehl Mfg. Co., Elizabeth, N. J.
 Eek Dynamo & Motor Co., Belleville, N. J.
 Emerson Electrical Mfg. Co., St. Louis, Mo.
 Fuller Co., Detroit, Mich.
 Garden City Fan Co., Fisher bldg, Chicago, Garwood Electric Co., Garwood, N. J. Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Green Fuel Economizer Co., Mattawan, N. Y., & 90 West, New York
 Holtzer-Cabot Electric Co., Brookline, Mass.
HOWARD & MORSE ("Blackman," & Duplex, Cone), 45 Fulton, New York. (See adv. index, end of book)
 Massachusetts Fan Co., Watertown, Mass.
MECHANICAL APPLIANCE CO. ("Watson"), Milwaukee, Wis. (See adv. index, end of book)
NATIONAL BLOWER WORKS, Milwaukee, Wis. (See adv. index, end of book)
 New York Blower Co., 25th & Stewart av., Chicago, Ill.
 Rochester Electric Motor Co., Rochester, N. Y.
 Sprague Electric Co., 257 W 34th, New York
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Wagner Electric Co., St. Louis, Mo.
 Western Electric Co., Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Fans (Electric Portable, Alternating Current)

Emerson Electric Mfg. Co. ("Trojan," "Emerson"), St. Louis, Mo.
 Fidelity Electric Co., Lancaster, Pa.
 Fort Wayne Electric Works, Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Shedd Electric Co. ("Comfort"), Roselle, N. J.
 Western Electric Co., Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. CO.
 Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Fans (Electric Portable, Direct Current)

Bates, D. L. & Bro. Co., Dayton, O.
 Coloual Fan & Motor Co., Warren, O.
 Commercial Electric Supply Co., St. Louis.
 Crocker-Wheeler Co., Ampere, N. J.
 Dayton Fan & Motor Co., Dayton, O.
 Diehl Mfg Co. ("Universal"), Elizabeth, N. J.
 Eck Dynamo & Motor Co. ("Hurricane"), Belleville, N. J.
 Emerson Electric Mfg. Co., St. Louis, Mo.
 Fidelity Elec. Co. ("Eclipse"), Lancaster, Pa.
 Fort Wayne Electric Works, Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., and 30 Church, New York. (See adv. index & branch offices, end of book)
 Jandus Electric Co., Cleveland, O.
 Manhattan Supply Co., 17 Park Pl., New York
 National Electric Supply Co. ("Crescent"), Washington, D. C.
 Peerless Electric Co., Warren, O.
 Robbins & Myers Co. ("Standard"), Springfield, O.

Roth Bros. & Co., 27 S Clinton, Chicago, Ill.
 Shedd Electric Co. ("Comfort"), Roselle, N. J.
 Snyder Electric Mfg. Co., Canal Dover, O.
 Sprague Electric Co. ("Lundell"), 527 W 34th, New York

Western Electric Co., Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. CO.
 Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Fans (Exhaust or Ventilating)

(See also Blowers, Various Kinds; also Fans—Mine Ventilating; also Fans, Electric, Various Kinds)

CONNECTICUT.

HARTFORD—Hartford Blower Co.
 WINDSOR LOCKS—Clark, George P. Co.

ILLINOIS.

CHICAGO—Cyclone Blow Pipe Co., 70 W Jackson boul
 Garden City Fan Co., Fisher bldg.
 New York Blower Co., 25th pl & Stewart av; Works: Bucyrus, O
 Raymond Bros. Impact Pulverizer Co., 629 W Harrison
 Sturtevant, B. F. Co., 281 S Clinton

INDIANA.

CONNELLSVILLE—Roots, P. H. & E. M. Co.

MARYLAND.

BALTIMORE—Dixie Mfg. Co.

MASSACHUSETTS.

BOSTON—Banister, A. W., 35 Wareham
 Barney Ventilating Fan Works (Compound) (A. B. Franklin, Prop.), 24 Binford
 Exeter Machine Works, 32 Oliver
 HOLYOKE—Perkins, B. F. & Sons
 HYDE PARK—Sturtevant, B. F. Co.
 WATERTOWN—Massachusetts Fan Co.

MICHIGAN.

DETROIT—American Blower Co., 1400 Russell
 Fuller Co., 1565 Russell
 SAGINAW—Allington & Curtis Mfg. Co.

NEW HAMPSHIRE.

EXETER—Exeter Machine Works

NEW JERSEY.

JERSEY CITY—GRISCOM-SPENCER CO., Grand & Sussex. (See adv. index, end of book)
 NEWARK—Seymour, J. M., Jr., 43 Lawrence
 WALSH'S SONS CO. (See adv. index, end of book)

NEW YORK.

BUFFALO—Buffalo Forge Co.
 FULTON—Hunter Fan & Motor Co. ("Tuerk," Electric & Belt)
 MATTEAWAN—Green Fuel Economizer Co.

NEW YORK CITY.

NEW YORK—Banks, F. S. & Co. ("Whiteman"), 73 Warren
 Cornell, J. B. & J. M., Co., 601 W 26th
 DONEGAN & SWIFT, 6 Murray. (See adv. index, end of book)
 Green Fuel Economizer Co., 90 West
GRISCOM-SPENCER CO., 90 West. (See adv. index, end of book)
HOWARD & MORSE ("Blackman" & "Duplex" Cone), 45 Fulton. (See adv. facing first page of Index of Contents)
MECHANICAL APPLIANCE CO. (Motor Driven), 50 Church. (See adv. index, end of book)
 Power Specialty Co., 111 B'way
 Sturtevant, B. F. Co., 131 Liberty
 Wing, L. J. Mfg. Co., Albany & West
 TROY—Tolhurst Machine Works (Ventilating). Fulton & 6th av

OHIO.

BUCYRUS—New York Blower Co. (See Chicago, Ill)
 CANAL DOVER—Snyder Electric Mfg. Co. (Electric)
 CLEVELAND—Bartlett Bros. Co., 178 Huron

PENNSYLVANIA.

ERIE—Link, E. M. Machinery Co.
 LANCASTER—Champion Blower & Forge Co.
 PHILADELPHIA—GRISCOM-SPENCER Co., ft. Washington av. (See adv. index, end of book)

RHODE ISLAND.

PROVIDENCE—New England Ventilating & Heating Co.

WISCONSIN.

MILWAUKEE—Bayley Mfg. Co.
MECHANICAL APPLIANCE CO. (Motor Driven). (See adv. index, end of book)
 National Blower Works, 17th & St. Paul av.

Fans (Mine Ventilating)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Capell Fan & Engineering Co. ("Capell"), Monongahela, Pa.
 Clifford Cappell Fan Co. ("Cappells"), Jeanette, Pa.
 Cole, W. E. (Steam), Washington, Ind.
 Connelville Mfg. & Mine Supply Co., Connelville, Pa.
 Crawford & McCrimmon Co., Brazil, Ind.
 Danville Foundry & Machine Co., Danville, Ill.
 Denver Engineering Works Co., Blake & 30th, Denver, Colo.
 Dixie Mfg. Co., Baltimore, Md.
 Eagle Iron Works (Direct Connected), Des Moines, Ia.
 Exeter Machine Works, Pittston, Pa.
 Finch Mfg. Co., Scranton, Pa.
 Garden City Fan Co., Fisher bldg., Chicago, Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
GRISCOM-SPENCER CO., 90 West, New York, & ft Washington av, Phila., Pa. (See adv. index & branch offices, end of book)
 Hendy, Joshua Iron Works, San Francisco, Cal.
 Herron-Webb Engineering Co. ("Capell"), Monongahela, Pa.
 Herzler & Henninger, Belleville, Ill.
JEFFREY MFG. CO. ("Jeffrey," Centrifugal), Columbus, O. (See adv. index & branch offices, end of book)
 Litchfield Foundry & Machine Co., Litchfield, Ill.
 Marlee Iron Works, Bay City, Mich.
 Mullen, Jno. & Son, Shamokin, Pa.
 Nelsonville Fdy. & Machine Co., Nelsonville, O.
 Ottumwa Iron Works, Ottumwa, Ia.
 Power Specialty Co., 111 B'way, New York
 Scottdale Foundry & Machine Co. ("Robinson"), Scottdale, Pa.
 South Side Foundry & Machine Works ("Kanawha"), Charleston, W. Va.
 Southern Illinois Machine & Foundry Co., Murphysboro, Ill.
 Stine, J. C., Co. (6 to 30 ft in diameter), Tyrone, Pa.
 Stine, S. B., Osceola Mills, Pa.
 Sullivan Machinery Co., Chicago, Ill.
 United Iron Works Co., Springfield, Mo.
 Vulcan Iron Works, Wilkes-Barre, Pa.
WESTINGHOUSE ELECTRIC & MFG. CO., Union bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Wing, L. J. Mfg. Co., Albany & West, N. Y.

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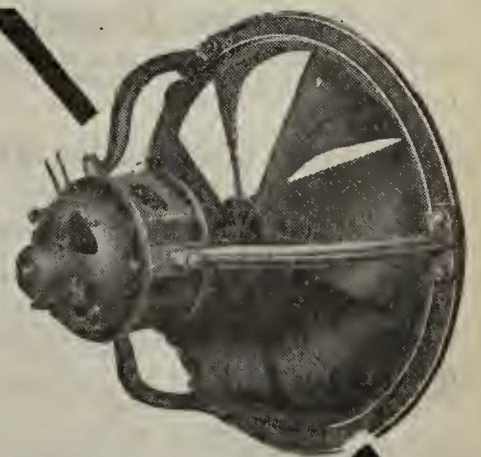
For Direct Current 18 In. to 42 In. FANS
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NEW YORK OFFICE,
 30 Church Street.



Fans (Ventilating)

(See Fans, Exhaust or Ventilating)

Fans (Ventilating, Engine Connected)

(See Blower Manufacturers)

Fans (Water Motor)

Backus Water Motor Co., Newark, N. J.
 Bates, D. L. & Bro. Co., Dayton, O.
 Chicago Water Motor & Fan Co., 40 Dearborn, Chicago, Ill.
 Hunter Fan & Motor Co., Fulton, N. Y.
 Indiana Fan Co. (Desk & Column), Indianapolis, Ind.
 Rosenberg, A., Motor & Mfg. Co., Baltimore, Md.

***Fasteners (Bale Tie)**

ACME STEEL GOODS CO., 2834-2840 Archer av., Chicago, Ill.; 147 Lafayette, New York, & Empire bldg., Atlanta, Ga. (See adv. index, end of book)
 CARY MFG. CO., 19 Roosevelt, New York. (See adv. index, end of book)

Fasteners (Blind)

Eagan, Thos. F. Hardware Co. (Storm Window), Worcester, Mass.
 Folsom Snow Guard Co., 7 Water, Boston, Mass.
 Parker, Chas., Co., Meriden, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Center, New York
STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)
 Wrightsville Hardware Co., Wrightsville, Pa.

Fasteners (Box)

ACME STEEL GOODS CO. (Box, Board & Shook), 2834-2840 Archer av., Chicago, Ill. (See adv. index, end of book)
 American Novelty & Mfg. Co. ("Defiance", "Climax" & "Excelsior"), 1826 N B'way, St. Louis, Mo.
 CARY MFG. CO. (Box Board & Shook), 19 Roosevelt, New York. (See adv. index, end of book)
 Crescent Metal Strap Co., 380 Canal, New York
 De Haven Mfg. Co., 50-54 Columbia Heights, Brooklyn, N. Y.
 Independent Steel & Wire Co., Pittsburg, Pa.
STANLEY WORKS, New Britain, Conn. (See adv. index, end of book)

Fasteners (Button)

Trojan Button Fasteners Co., Troy, N. Y.

Fasteners (Chain Door)

Yale & Towne Mfg. Co., 9 Murray, New York

Fasteners (Conduit)

Hart & Hegeman Mfg. Co. (For Holding Flexible Conduits in Wall Cases), Hartford, Conn.

Fasteners (Corrugated Steel)

ACME STEEL GOODS CO. ("Acme"), 2834-2840 Archer av., Chicago, Ill.; 147 Lafayette, New York, & Empire bldg., Atlanta, Ga. (See adv. index, end of book)
 CARY MFG. CO., 19 Roosevelt, New York. (See adv. index, end of book)
 Corrugated Steel Nail Co., Springfield, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Independent Steel & Wire Co., Pittsburg, Pa.
MILWAUKEE CORRUGATING CO. (Jobbers), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Rex Corrugated Fastener Co. ("Rex"), Williamsport, Pa.
 Smallwood, W. R. Mfg. Co., Gowanda, N. Y.
STANLEY WORKS, New Britain, Conn., & 79 Chambers, New York. (See adv. index, end of book)
 Wrightsville Hardware Co., Wrightsville, Pa.

Fasteners (Curtain)

Carr, F. S., 74 Pearl, Boston, Mass.
 Cowles, C. & Co., Water & Chestnut, New Haven, Conn.
 Nelder, F. A. Co., Augusta, Ky.
 Roehm & Davison (Ltd.), 91 Woodbridge, W. Detroit, Mich.
 Smith, Jos. N. Co., 4th & Porter, Detroit, Mich.
 Weiss, Chas. & Son, 4725 Cottage Grove av., Chicago, Ill.

Fasteners (Freight Car Door)

Dayton Malleable Iron Co., Dayton, O.

Fasteners (Guard Rail)

American Guard Rail Fastener Co. (Pressed Steel & Malleable Iron), Real Estate Trust bldg., Phila., Pa.
 Quincy-Manchester-Sargent Co. ("American"), Old Colony bldg., Chicago, Ill., & 90 West New York

Fasteners (Horse Blanket)

American Snap Co. ("Hubbard"), Ashtabula, Ohio

Fasteners (Nut & Bolt)

American Nut & Bolt Fastener Co. ("Barclay" for Splice Joints, Car Trucks, etc.), North Side, Pittsburg, Pa.

Fasteners (Paper)

Hotchkiss, E. H., Co. (Fastener & Tacker), Norwalk, Conn.
 O. K. Mfg. Co. (Inc.), ("Washburne's-O-K" Adjustable), Syracuse, N. Y.
 Superior Mfg. Co. ("Superior"), Sidney, O.
 Thomas Stationery Mfg. Co. (For the Counting House), Springfield, O.

Fasteners (Sash)

Champion Safety Lock Co. ("Champion", "Enclid" & "Monitor" Never Break), Geneva, O.
 Corbin, P. & F., New Britain, Conn.
 Hardware & Woodenware Mfg. Co., 693 B'way, New York
 Ives, Hobart B. Co. ("Crescent"), New Haven, Conn.
 Judd, Rollin D., New Britain, Conn.
 Miller Sash Lock Co., 408 Olive, St. Louis, Mo.
 Norwalk Lock Co., S Norwalk, Conn.
 Onward Mfg. Co. ("Awbrite"), Menasha, Wis.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penna. Hardware Co., Reading, Pa.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Pullman Mfg. Co., Rochester, N. Y.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Center, New York
 Schroeder, Anton, 888 Dayton ave., St. Paul, Minn.
 Shaw, Irvin A., Hutchinson, Kan.
 Yale & Towne Mfg. Co., 9 Murray, New York; Works: Stamford, Conn.

Fasteners (Seat)

Sovereign, C. E. Co., Rockford, Ill.

Fasteners (Slate)

Hamblin & Russell Mfg. Co., Worcester, Mass.

Fasteners (Storm Window)

Eagan, Thos. F., Worcester, Mass.
 Kieffer Bros., Syracuse, N. Y.
 Phenix Mfg. Co. ("Phenix" Hanger & Fastener), Humbolt av & Center, Milwaukee, Wis.
STANLEY WORKS, New Britain, Conn. (See adv. index & branch offices, end of book)
 Whitney Mfg. Co., Waltham, Mass.
 Woodruff, W. W. & Sons Co. ("Doblers"), Mt. Carmel, Conn.

Fasteners (Typewriter)

Merrow, Fred. S. ("Merrow" Screwless), Woodfords, Portland, Me.

Fasteners (Window)

Edwards, O. M., Co., Syracuse, N. Y.
 Kees, F. D. Mfg. Co. ("Gossett," Window & Screen), Beatrice, Neb.
 Little, O. C. Pulley Coating Co., Menasha, Wis.
STANLEY WORKS, New Britain, Conn. (See adv. index & branch offices, end of book)
 Russell & Erwin Mfg. Co. (Casement Window & Cellar Window), New Britain, Conn., & 96 Lafayette New York
 Woodruff, Walter W. & Sons Co. ("Doblers"), Mount Carmel, Conn.

Faucets

(See also Plumbers' Brass Goods; also Cocks; also Cocks & Bibbs of Various Kinds)
 Asbell, S. J. Co. (Brass), Paterson, N. J.
 Bashlin Co., Warren, Pa.
 Bishop & Babcock Co. (Bar), Cleveland, O.
 Chambers & Co. (Beer, etc.), Newark, N. J.
 Economy Faucets Co. ("Economy"), Providence, R. I.
 Edwardsville Brass Co. (Brass), Edwardsville, Ill.
 Haines, Jones & Cadbury Co., 1138 Ridge av., Philadelphia, Pa.
 Haydenville Co., (Compression, Fuller Pattern Lever Handle & Self Closing), Haydenville, Mass.
 King, W. D. Co., Reading, Pa.
 Hermance Mfg. Co., Syracuse, N. Y.
 Landers, Frary & Clark (Milk Can, Cream Separator, Petroleum Oil, etc.), New Britain, Conn.
 McKenna Bros. Brass Co., 1st av & Ross, Pittsburg, Pa.
 McNab & Harlin Mfg. Co., 56 John, New York
McRAE & ROBERTS CO. (Water Cooler, Oil Can, Milk Can, Coffee Urn), 227 Campbell av., Detroit, Mich. (See adv. index, end of book)
 Meyer-Sniffen Co., 11 W 36th, New York
 Mott, J. L. Iron Works, 118 5th av., New York
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
 Sanitary Co. (The Paragon), Cleveland, O.
 Simplex Faucet Co. (Hot or Cold), Bridgeport, Conn.
 Standard Brass & Iron Works ("Standard" Bar Drop Handle, etc.), Milwaukee, Wis.
 Syracuse Faucet & Valve Co. (Without Packing), Syracuse, N. Y.

Faucets (Molasses)

North Bros. Mfg. Co. ("Improved Weed"), Lehigh av & American, Philadelphia, Pa.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Faucets (Self Measuring)

Lane Bros. Co., Poughkeepsie, N. Y.

Faucets (Stoneware)

Graham, Chas. Chemical Pottery Wks., 986 Metropolitan av., Brooklyn, N. Y.

Faucets (Tea & Coffee Urn)

Peck Bros. & Co., New Haven, Conn.

Faucets (Wood)

Burnside Mfg. Co. (Cedar), Burnside, Ky.
 Redlich Mfg. Co. (Wood, Cork-Lined, Cedar, Lock-Key, Metal Plug, etc.), 2 Oak, Chicago, Ill.
 Sommer's, Jno. Son (Over 100 Different Kinds, Plain, Corked & Leather Lined, etc.), Newark, N. J.

Feed Water Heaters

(See Heaters, Feed Water)

Feeders (Aluminum Railway)

Aluminum Co. of America, Pittsburg, Pa.

Feeders (Boiler)

American Injector Co. ("U. S." Automatic Injector), Detroit, Mich.
 Catchpole Boiler, Fdry. & Mach. Co., Geneva, N. Y.
 Chaplin-Fulton Mfg. Co., 28 Penn av., Pittsburg, Pa.
 Davis, G. M. Regulator Co. (& Heater), 144 Milwaukee av., Chicago, Ill.
 Foskett & Bishop Co., New Haven, Conn.
 Foster, F. W. Mfg. Co. ("Neirlek," Automatic), 99 Haverhill, Boston, Mass.

Gillis & Geoghegan, 537 W B'way, New York
 Kelley & Jones Co., 135 Water, Pittsburg, Pa.
 Keyes, F. E. & Son ("Advance"), 20 Broad, New York
 Kieley & Mueller, 34 W 13th, New York
 Kitts Mfg. Co. (High & Low), Oswego, N. Y.
 Lawler Regulator Co. ("Lawler's" Automatic, for Low Pressure), 473 W B'way, New York

LUNKENHEIMER CO., Cincinnati, O.

(See adv. index & branch offices, end of book)
 McRae & Roberts Co., Detroit, Mich.
 Nason Mfg. Co., 71 Beekman, New York
 Parker Boiler Feed Co., Rochester, N. Y.
 Randle Machinery Co. ("Leader"), 1724 Powers, Cincinnati, O.

Roots, P. H. & F. M. Co., Connorsville, Ind.
 Rutzler, E. Co. ("Low Pressure, Automatic"), 127 White, New York
 Schutte & Koerting Co. ("Koerting"), 1251 N 12th, Phila., Pa.

SIMMONS, JOHN CO., 106 Centre, New York.

(See adv. index, end of book)
 Standard Steam Specialty Co. ("Utility," High & Low Pressure), 542 W B'way, N. Y.
 Warren Steam Pump Co., Warren, Mass.
 Watson, N. A., Erie, Pa.
 Wright, Geo. W., Lapel, Ind.

Feeders (Boiler Oil)

Baker-Churchill-Lee Co. ("Lee"), 907 Michigan av, Detroit, Mich.
 Detroit Lubricator Co. ("Detroit"), Detroit, Mich.

LUNKENHEIMER CO. ("Standard" & "Emerald").

General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

MCRAE & ROBERTS CO. ("Neverfail").

227 Campbell av, Detroit, Mich. (See adv. index, end of book)
 Michigan Lubricator Co., Detroit, Mich.
 Powell, Wm., Co. (Boiler Oil), 2529 Spring Grove av, Cincinnati, O.
 Sims Co. (Boiler Oil), Erie, Pa.
 Talmage Mfg. Co., Cleveland, O.
 Watts Regulator Co. ("Shoo Fly"), Lawrence, Mass.

Feeders (Coal Dust)

(See Burners, Coal Dust)

Feeders (Fuel)

Dixie Mfg. Co. (Automatic Furnace), Baltimore, Md.
 Garland, M. Co., Bay City, Mich.
 Phoenix Mfg. Co. (Automatic, Sawdust), Eau Claire, Wis.
 Porbeck, Otto (Furnace), 2017 N B'way, St. Louis, Mo.

Feeders (Furnace)

Cyclone Blow Pipe Co. (Automatic), 70 W Jackson boul, Chicago, Ill.
 Dixie Mfg. Co. (Automatic), Baltimore, Md.
 Hartford Blower Co., Hartford, Conn.
 Ohio Blower Co., Cleveland, O.
 Venderhush & Looman (Automatic), Detroit, Mich.

Feeders (Ore)

ALLIS-CHALMERS CO., Milwaukee, Wis.

(See adv. index & branch offices, end of book)

American Concentrator Co. ("Plunger"), Basic City, Va.

Chalmers & Williams ("Challenge" Plunger), Commercial Bank bldg, Chicago, Ill.

Davis, F. M. Iron Works Co., 8th & Larimer, Denver, Col.

Frenier, J. H. & Son, Rutland, Vt.
 Hammond Mfg Co., 100 1st, Portland, Oregon

Harron, Richard & McCone ("James"), San Francisco, Cal.

Hendy, Joshua Machine Works, San Francisco, Cal.

Krom Machine Works, 170 B'way, New York; Works, Jersey City, N. J.

McFarlane Mfg. Co., Denver, Colo.
 Mecklenburg Iron Works, Charlotte, N. C.

Mine & Smelter Supply Co., Denver, Colo.
 Newkirk, H. A. & Co. ("The Wood"), Monadnock blk, Chicago, Ill.

Power & Mining Machine Co. ("Challenge"), Cudahy, Wis.

Union Iron Works Co., San Francisco, Cal.
 Wellman-Seaver-Morgan Co., Cleveland, O.

Feeders (Stone Sawing)

Kelly & Jones Co., 135 Water, Pittsburg, Pa.

Feeds (Roll & Dial)

Hilbard, Wm. H. Mfg. Co., Washington av, Brooklyn, N. Y.

Feldspar Miners

Eureka Flint & Spar Co., Trenton, N. J.
 Golding & Sons Co., Wilmington, Del.

GUILFORD & WALTERSVILLE

Granite Co. (Rough & Ground), 3 E Lexington, Baltimore, Md. (See adv. index & branch offices, end of book)

International Mineral Co., Ticonderoga, N. Y.
 Penna. Feldspar Co., Phila., Pa.

PETERSBURG GRANITE CO. (Rough or Ground), 3 E Lexington, Baltimore, Md.

(See adv. index & branch offices, end of book)
 Sparvelta Mining Co., Baltimore, Md.
 Twin Oaks Feld Spar Co., Stancliff & Williams, Sales Agents, 315 Land Title bldg, Phila., Pa. Quarries: Twin Oaks, Pa.

Felt Hardeners

Farrel Foundry & Machine Co., Ansonia, Conn.

Felt Mills

(See also Felts, Hair)

American Felt Co., 110 E 13th, New York
 Bacon, C. N. Felt Works, Winchester, Mass.

Bardeen Paper Co., Otsego, Mich.
 Carey, Philip, Mfg. Co. (Asbestos & Wool Felts), Lockland, O.

Dolge, Alfred Mfg. Co., Dolgeville, Cal.
 Faatz-Reynolds Felting Co. (Wool), Lestershire, N. Y., & 648 B'way, New York

Field & White, 116 Nassau, New York
 Foot Mfg. Co., Jersey City, N. J.

Garrett, C. S. & Son Co., 22 S Marshall, Philadelphia, Pa.

General Roofing Mfg. Co., East St. Louis, Ill., & Chicago, Ill.

Stroock Felt Co., Newburgh, N. Y.
 Union Roofing & Mfg. Co., St. Paul, Minn.

Williams & Paige, 68 Essex, Boston, Mass.

Felt Wicks, Plugs, Washers, Strips, Etc.

Bowen Manufacturing Co., Auburn, N. Y.

Felts (Deadening)

Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 Bird, F. W. & Son (Non-Inflammable, Sanitary), East Walpole, Mass.

Carey, Philip Mfg. Co., Lockland, O.
 Chatfield Mfg. Co., Cincinnati, Ohio

Ehret Magnesia Mfg. Co., Land Title bldg, Phila., Pa.

Garrett, C. S. & Co., 21 Decatur, Phila., Pa.

General Roofing Mfg. Co., East St. Louis, Ill., & Chicago, Ill.

Johns, H. W.-Manville Co., 100 William, New York

Kingston's, Wm. Son, Little Falls, N. Y.
 Mac-Sim-Bar Paper Co. (Building), Otsego, Mich.

New York Asbestos Mfg. Co., 80 John, New York

Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.

Union Fibre Co. ("Lith," "Linofelt" & Quilted Flax Fibre & Mineral Wool Sound Deadener), Winona, Minn.

Union Roofing & Mfg. Co., St. Paul, Minn.

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Felts for Electrical Purposes

(See also Felt Mills; also Felts, Hair)

American Felt Co., 110 E 13th, New York
 Bacon Felt Co., Winchester, Mass.

Booth, N. E., 745 39th, Brooklyn, N. Y.
 Faatz-Reynolds Felting Co. (Wool), Lestershire, N. Y., & 719 B'way, New York

Stroock Felt Co., Newburgh, N. Y.

Taylor, W. J., 733 B'way, New York

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Wild, Jos. & Co., 11 Thomas, New York
 Williams & Paige, 68 Essex, Boston, Mass.

Felts (Hair)

American Hair Felt Co., 67 Beekman, New York
 Baeder, Adamson & Co., 210 Chestnut, Philadelphia, Pa.

Carey, Philip Mfg. Co., Lockland, O.

Faatz-Reynolds Felting Co. (Wool), Lestershire, N. Y., & 648 B'way, New York

Johns, H. W.-Manville Co. (For Refrigeration & Hot & Cold Water Pipes), 100 William, New York

Pittsburg Hair Felt Co., Sharpshurg, Pa.

Sindle, S., & Sons. (also Felt Wool), Little Falls, N. Y.

Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Felts (Polishing)

Bacon, C. N. Felt Works, Winchester, Mass.

Eastern Felt Co. (Sheets), Winchester, Mass.

Foot Mfg. Co., Jersey City, N. J.

Stroock Felt Co., Newburgh, N. Y.

Williams & Paige, 68 Essex, Boston, Mass.

Felts (Roofing)

(See also Papers, Roofing & Sheathing)

Acme Asphalt Roofing Mfg. Co. ("Eagle" Brand Asphalt), 65 Mallory av, Jersey City, N. J.

Barrett Mfg. Co. (Also Tarred & Saturated Wool, Felts, etc.), Land Title bldg., Phila., Pa.

Burke, Augustus, 100 W Superior, Chicago, Ill.

Carey, Philip Mfg. Co., Lockland, O.

Chatfield Mfg. Co., Cincinnati, O.

Diem & Wing Paper Co. ("Flintoid"), Sth & Eggleston av, Cincinnati, O.

Ehret Magnesia Mfg. Co., Land Title bldg, Phila., Pa.

Garrett, C. S. & Son Co., 22 S Marshall, Philadelphia, Pa.

General Roofing Mfg. Co., East St. Louis, Ill., & Chicago, Ill.

Gilmour, R. M. Mfg. Co., 105 John, New York

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)

Hydrex Felt & Eng'g Co., 120 Liberty, N. Y.

Johns, H. W.-Manville Co., 100 William, New York

Kingston's, Wm. Son (Dry Felt), Little Falls, N. Y.

Lincoln Waterproof Cloth Co., Boundbrook, N. J.

McClintock & Irvine Co., Neville & P. R. R., Pittsburgh, Pa.

Nashville Chemical Co., Nashville, Tenn.

New England Felt Roofing Works, 18 Post office sq, Boston, Mass.

North Chicago Roofing Co., 128 E North av, Chicago, Ill.

Patent Vulcanite Roofing Co., 625 S Campbell av, Chicago, Ill.

Powell, M. W. Co., 204 Dearborn, Chicago, Ill.

Powell & Jones, Monadnock blk, Chicago, Ill.

Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.

Scott & Co. (Asteroid), 234 E Front, Cincinnati, O.

Southern Roofing Co. (Tarred), Atlanta, Ga.

Stewart, W. H. Mfg. Co., St Fulton, N. Y.

Stowell Mfg. Co., Jersey City, N. J.

Sword, Roland P., Mount Holly, N. J.

Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.

Union Roofing & Mfg. Co. ("Pyramid" Tarred), St. Paul, Minn.

Warren Bros Co. (Single, 2 & 3 ply), 93 Federal, Boston, Mass.

WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Felts (Tarred, Saturated)

Barrett Mfg. Co., Land Title bldg, Phila., Pa.

Union Roofing & Mfg. Co. ("Pyramid" Brand & Asphalt), St. Paul, Minn.

Fence (Electrically Welded Wire)

Pittsburg Steel Co., Pittsburg, Pa.

*Fences (Expanded Metal)

ANCHOR POST IRON WORKS, 19 Cortlandt, New York. (See adv. index, end of book)

MERRITT & CO., Front & Arch, Camden, N. J. (See adv. index, end of book)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Fences (Iron & Steel Picket)

Albree, Chester B. Iron Works, Allegheny, Pa.
ANCHOR POST IRON WORKS, 19
 Cortlandt, New York. (See adv. index, end of book)

Architectural Iron & Wire Works, Wheeling,
 W. Va.

Atlanta Wire & Iron Works Co., Atlanta, Ga.
Barnum, E. T., Wire & Iron Works, 82
 Washington av., Detroit, Mich.

Belmont Iron Works, 2215 Washington av., Phila., Pa.

BOLLES, J. E. IRON & WIRE WORKS,
 Detroit, Mich. (See adv. index, end of book)

Buffalo Wire Works Co., Buffalo, N. Y.
CARPENTER, F. E. CO., 253 B'way, New
 York. (See adv. index, end of book)

CHAMPION IRON CO., Kenton, O.
 (See adv. index, end of book)

Cincinnati Iron Fence Co., Cincinnati, O.
 City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.

Davis & Siehl (Steel), 4032 Hamilton av., Cin-
 cinnati, O.

DeKalb Fence Co. (Steel Web), DeKalb, Ill.
 Glen Mfg. Co. ("Hartman" Wrought Steel),
 Ellwood City, Pa., & 181 B'way, New York

HANKE IRON & WIRE WKS., 1234 Fill-
 more, Chicago, Ill. (See adv. index, end of book)

Indiana Steel Wire Co., Muncie, Ind.
Mack Iron Works Co., Sandusky, O.

MEYERS, FRED. J. MFG. CO., Ham-
 ilton, O. (See adv. index, end of book)

MERRITT & CO., Front & Arch,
 Camden, N. J. (See adv. index, end of book)

Nimmo Fence & Wire Works Co., 305 E 4th
 Cincinnati, O.

Page Woven Wire Fence Co. (Also Orna-
 mental), Monessen, Pa.

SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)

Smith Fence & Iron Co. (Steel), Waynesboro,
 Pa.

Stewart Iron Works Co., Covington, Ky.
WISCONSIN IRON & WIRE WORKS,
 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Fences (Ornamental Iron)

(See Gates, Ornamental Iron)

Fences (Woven Wire)

Acme Fancy Wire Works, Canfield & Moran,
 Detroit, Mich.

Adams Steel & Wire Works, Joliet, Ill.
Adrian Wire Fence Co. ("Adrian"), Adrian,
 Mich.

American Cable Fence Co. ("Champion" Farm
 Lawn & Poultry), Pekin, Ill.

AMERICAN STEEL & WIRE CO.
 ("American," "Elwood" & "Royal"
 Fences), Commercial Nat'l B'k bldg., Chi-
 cago, Ill. (See adv. index & branch of
 fences, end of book)

American Wire Fence Co. ("Model" Steel
 Coiled Spring), 189 La Salle, Chicago, Ill.

Anthony Fence Co. ("Anthony"), Tecumseh,
 Mich.

Clinton Wire Cloth Co., Clinton, Mass.

Crawfordsville Wire & Nail Co., Crawfords-
 ville, Ind.

Cyclone Fence Co., Waukegan, Ill.

Cyclone Woven Wire Fence Co. ("Cyclone"
 Spring Steel), Cleveland, O.

De Kalb Fence Co. ("De Knibb" Cabled Field,
 Hog, Poultry, Garden, Rabbit & "M. M.
 S." Poultry), De Kalb, Ill.

Denning Wire & Fence Co. ("Jumbo," "Peer-
 less"), Cedar Rapids, Ia.

Dwiggins Wire Fence Co. ("Victor"), Ander-
 son, Ind.

Elliot & Reid Co. ("Royal," Richmond,
 "Ideal"), Richmond, Ind.

Enterprise Foundry & Fence Co., Indianapolis,
 Ind.

Eureka Fence Mfg. Co. ("Eureka"), Richmond,
 Ind.

Frost Wire Fence Co., Cleveland, O.

Grand Crossing Tack Co. (Endless Coiled
 Spring Fence), S Chicago av & 79th, Chi-
 cago, Ill.

Griswold Co. ("Griswold"), Sterling, Ill.

Hobbs Bros. ("Diamond"), Goodfield, Ill.

Indiana Anchor Fence Co. ("Indiana"), South
 Bend, Ind.

Indiana Steel & Wire Co., Muncie, Ind.

Interlocking Fence Co. ("Crown"), Morton, Ill.

International Steel Post Co., St. Louis, Mo.
 Iona Fence & Wire Works Co., Carroll, Iowa
 Jackson Fence Co. ("Jackson"), Jackson, Mich.
 Louisville Barb Wire Co., Janesville, Wis.

Keystone Steel & Wire Co. ("Keystone,"
 "Monarch" & "Square Deal" Poultry)

Kitselman Bros., Muncie, Ind. Peoria, Ill.
 Kokomo Steel & Wire Co., Kokomo, Ind.

Lafayette Fence & Machine Co., Lafayette,
 Ind.

Lamb Wire Fence Co. ("Standard," "Peer-
 less," "Lamb"), Adrian, Mich.

Leader Fence Machine Mfg. Co. ("Leader"),
 St. Charles, Ill.

Missouri Anchor Fence Co., St. Joseph, Mo.

Myers, Chas. H. & Co. ("De-Mand-a"), Le Roy,
 Ill.

New Jersey Wire Cloth Co., Trenton, N. J.

Page Woven Wire Fence Co. ("Page"),
 Monessen, Pa.

Pittsburg Steel Co. ("Pittsburg" Perfect),
 Pittsburg, Pa.

Shimer & Co., Anderson, Ind.

Spring Steel Fence & Wire Co., Anderson, Ind.

Standard Wire Fence Co., Canandaigua, N. Y.

Warner Fence Co., Ottawa, Kan.

Fenders (Brass & Iron)

(See also Fire Place Furnishings, Manufactur-
 ers)

BIGELOW, CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index, end of book)

Bradley & Hubbard Mfg. Co., Meriden, Conn.

JACKSON, WM. H. COMPANY, 29 E
 17th (Union sq), New York. (See adv. index, end of book)

Fenders & Guards (Automobile)

American Auto Brass Co., Columbus, Ohio.

American Veneer Co., New Orange, N. J.

A-Z Co., 527 W 56th, New York

BADGER, E. B. & SONS CO., 75 Pitts,
 Boston, Mass. (See adv. index, end of book)

Briscoe Mfg. Co., Detroit, Mich.

Broc Carriage & Wagon Co., 417 Case av.,
 Cleveland, Ohio

Cole & Woop, 48 W 67th, New York

Dann Bros. & Co., 80 Franklin, New Haven,
 Conn.

Detroit Automobile Top Co., 265 Jefferson av.,
 Detroit, Mich.

Detroit Motor Car Supply Co., 1050 Jefferson
 av., Detroit, Mich.

Everitt, B. F., 63 Fort E, Detroit, Mich.

Fedders Mfg. Co., 1592 Genesee, Buffalo, N. Y.

Globe Machine & Stamping Co., 3808 Hamil-
 ton av., Cleveland, O.

Gray, Peter & Sons, 88 Union, Boston, Mass.

Hayes Mfg. Co., Detroit, Mich.

Indianapolis Dash Co., 2116 S Meridian, In-
 dianapolis, Ind.

Kells, W. J. Mfg. Co., Jersey City, N. J.

Kinsey Mfg. Co., 1126 E 3d, Dayton, O.

Long Mfg. Co., 1430 Michigan av., Chicago, Ill.

McKinnon Dash Co., 250 Amherst, Buffalo, N.Y.

Moore-Munger Co., 602 W 52d, New York

Peters & Herron Dash Co., Gift e Culbertson,
 Columbus, O.

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 " SILICON,
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 " TUNGSTEN,
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FERRO-SILICON-ALUMINUM,
SILICON-CALCIUM-ALUMINUM,
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Pursell, P. M. Mfg. Co., 802 Bleecker, New
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Quinby, J. M. & Co., 27 Division, Newark, N. J.

Reading Metal Body Co., 8th & Chestnut, Read-
 ing, Pa.

Springfield Metal Body Co., Birnie av., Spring-
 field, Mass.

U. S. Das Fender Co., 147 E 42d, New York

Wright Cooler & Hood Co., 335 Wabash av.,
 Chicago, Ill.

Walker, James & Son, 43 Jefferson av., Detroit,
 Mich.

Ferro-Alloys

Brighton Alloy Co., Station B, Cincinnati, O.

DOGGETT, STANLEY, 101 Beekman,
 New York. (See adv. index, end of book)

Electro-Metallurgical Co., 79 Wall, New
 York, & 157 Michigan av., Chicago, Ill.

Crocker Bros. (Imported English), 99 John,
 New York

LEAVITT, C. W. & CO., 30 Church, New
 York. (See adv. index, end of book)

Noble Electric Steel Co., San Francisco, Cal.

Primos Chemical Co., Primos, Delaware Co.,
 Pa.

Tennant's, C. Sons & Co. (Importers), 76 Wil-
 ham, New York

Tungsten & Rare Metals Co., Beaver Falls,
 Pa.

Ferro-Aluminum

Aluminum Co. of America, Pittsburg, Pa.

Electric Smelting & Aluminum Co.,
 ("Cowles"), Lockport, N. Y.

Hayman, Michael, & Co., Buffalo, N. Y.

Kemp, W. H., & Co., 165 Spring, New York

New Era Mfg. Co., Kalamazoo, Mich.

LEAVITT, C. W. & CO., 30 Church, New
 York. (See adv. index, end of book)

Vanadium Alloys Co., 25 Broad, New York

Ferro-Chrome

Aluminum Co. of America, Pittsburg, Pa.

Dana & Co., 32 B'way, New York

DOGGETT, STANLEY, 101 Beekman,
 New York. (See adv. index, end of book)

Electro-Metallurgical Co. (Low Carbon), 79
 Wall, New York, & 157 Michigan av.,
 Chicago, Ill.

LEAVITT, C. W. & CO., 30 Church, New
 York. (See adv. index, end of book)

Metal Mfg. Co., Land Title Bldg., Phila., Pa.

Potts & Whittman, North American Bldg.,
 Philadelphia, Pa.

Primos Chemical Co., Primos, Delaware Co.,
 Pa.

Roessler & Hasslacher Chemical Co. ("Pohm-
 metos" Brand), 100 William, New York

Tennant's, C. Sons & Co. (Importers), 76 Wil-
 ham, New York

Vanadium Alloys Co., 25 Broad, New York

Virginia Electrolytic Co., 99 Cedar, New York

Ferro-Manganese & Ferro-Silicon

Addy, Matthew & Co., Philadelphia, Pa.
 American Steel Co., Pittsburg, Pa.
 Ashland Iron & Mining Co. (Ferro-Silicon Only), Ashland, Ky.
 Bessie Ferro-Silicon Co. (Ferro-Silicon Only, Brands "Bessie," "Pencost"), Columbus, O.
 Blair, Reed F. & Co., Frick bldg, Pittsburg, Pa.
 Bond, Vivian & Co., 68 Beaver, New York
 Cambria Steel Co. (Ferro-Manganese Only), Arcade bldg, Phila., Pa.
 Carborundum Co. (Ferro-Silicon), Niagara Falls, N. Y.
 Carnegie Steel Co., Carnegie bldg, Pittsburg, Pa.
 Colorado Fuel & Iron Co. (Ferro-Manganese Only), Denver, Col.
 Crescent Phosphorized Metal Co. (Copper, etc.), 2314 Wood, Phila., Pa.
 Crocker Bros. (Imported English), 99 John, Dana & Co., 32 B'way, New York
 Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
 Electric Smelting & Aluminum Co. ("Cowles"), Lockport, N. Y.
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Goldschmidt Thermit Co., 90 West, New York
 Hamilton & Co. (English), 16 S William, New York
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Metal Mfg. Co., Land Title bldg, Phila., Pa.
 Metallic Alloys Co., 32 Cortlandt, New York
 Midvale Mining & Mfg. Co. ("Carbanese"), St. Louis, Mo.
 Noble Electric Steel Co., San Francisco, Cal.
 Potts & Whitman, North American bldg, Philadelphia, Pa.
 Primos Chemical Co., Primos, Delaware Co., Pa.
 Roessler & Hasslacher Chemical Co. ("Poluek-metos" Brand), 100 William, New York
 Samuel Frank (Firm of), 1502 Market, Phila., Pa.
 Shepard, Chas. G., Buffalo, N. Y.
 Tennant's, C. Sons & Co. (Importers), 76 William, New York
 Vanadium Alloys Co., 25 Broad, New York
 Virginia Electrolytic Co. (Specialty Ferro Silicon), 99 Cedar, New York. Furnaces: Holcomb, Va.
 Western Foundry Supply Co., 30 Church, New York
 Wilson Aluminum Co., 99 Cedar, New York. Works: Kanawha Falls, W. Va.

Ferro-Molybdenum

Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av., Chicago, Ill.
 De Golla & Atkins, Crocker bldg., San Francisco, Cal.
 Foote Mineral Co., 107 N 19th, Phila., Pa.
 Goldschmidt Thermit Co., 90 West, New York
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Primos Chemical Co., Primos, Delaware Co., Pa.
 Roessler & Hasslacher Chemical Co., 100 William, New York
 Vanadium Alloys Co., 25 Broad, New York

Ferro-Nickel

Primos Chemical Co., Primos, Delaware Co., Pa.
 Roessler & Hasslacher Chemical Co., 100 William, New York
 Vanadium Alloys Co., 25 Broad, New York

Ferro-Phosphorus

LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Potts & Whitman, North American bldg, Philadelphia, Pa.
 Roessler & Hasslacher Chemical Co., 100 William, New York
 Vanadium Alloys Co., 25 Broad, New York

Ferro-Silicon (Electrolytic)

Roessler & Hasslacher Chemical Co., 100 William, New York
 Virginia Electrolytic Co., 99 Cedar, New York

Ferro-Sodium

Vanadium Alloys Co., 25 Broad, New York

Ferro-Titanium

Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

Ferro-Tungsten

Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
 De Golla & Atkins, San Francisco, Cal.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Primos Chemical Co., Primos, Delaware Co., Pa.
 Roessler & Hasslacher Chemical Co., 100 William, New York
 Tennant's, C. Sons & Co. (Importers), 76 William, New York
 Tungsten & Rare Metals Co. ("Beaver" Brand), Beaver Falls, Pa.
 Vanadium Alloys Co., 25 Broad, New York
 Virgilula Electrolytic Co., 99 Cedar, New York

Ferro-Vanadium

American Vanadium Co., Pittsburg, Pa.
 Electro-Metallurgical Co., 79 Wall, New York, & 157 Michigan av, Chicago, Ill.
 Primos Chemical Co., Primos, Delaware Co., Pa.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Roessler & Hasslacher Chemical Co., 100 William, New York
 Vanadium Alloys Co., 25 Broad, New York
 Virgilula Electrolytic Co., 99 Cedar, New York

Ferrules (Brass)

American Distributing Co., Syracuse, N. Y.
 American Pin Co., Waterbury, Conn.
 American Ring Co., Waterbury, Conn.
 American Tube & Stamp Plug Co., Bridgeport, Conn.
 Athol Pump Co. (for Plumbers), Athol, Mass.
BAY STATE STAMPING CO., 380 Chandler, Worcester, Mass. (See adv. index, end of book)
 Boston Ferrule Co., 34 Osborn, Cambridgeport, Mass.
 Bridgeport Brass Co., Bridgeport, Conn.
 Brunswick Mfg. Co. (Plain & Nickel Plated), Brunswick, Me.
 Cahli, M. F., Boston, Mass.
 Campbell, J. B. Brass Works (End Reducing & Trap Screw), Erie, Pa.
 Edwardsville Brass Co. (For Plumbing), Edwardsville, Ind.
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Green, C. E. & Son, 95 Passaic, Newark, N. J.
 Hays Mfg. Co., Erie, Pa.
 Hoffman & Billings Mfg. Co., Milwaukee, Wis.
 Humphrey, H. W. (Solid), Unionville, Conn.
HUNGERFORD, U. T. BRASS & COPPER CO. (Also Copper), 497 Pearl, New York
 McNab & Harlin Mfg. Co. (For Plumbing), 56 John, New York
 Matthews Mfg. Co., Worcester, Mass.
MERCHANT & EVANS CO. (Inc.) (Seamless), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Mueller, H. Mfg. Co. (For Plumbing), Decatur, Ill.
 National Mfg. & Supply Co. ("Standard" & Extra Heavy), Minneapolis, Minn.
NIAGARA HANDLE & FERRULE CO., 321 No. Holliday, Baltimore, Md. (See adv. index, end of book)
 Novelty Mfg. Co. (Small), Waterbury, Conn.
 Ohio Brass & Iron Mfg. Co. (For Plumbing), Cleveland, O.
 Parker, Jno. L. Co., Worcester, Mass.
 Peck Bros. & Co., 125 Chestnut, New Haven, Conn.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Rome Brass & Copper Co., Rome, N. Y.
 Russell, J. M. Mfg. Co., Naugatuck, Conn.
 Sanitary Co. (For Plumbing), Cleveland, O.
 Sparks, Withington Co., Jackson, Mich.
 Starhuck, R. M. & Son (Plumbers), Hartford, Conn.
 Steele & Johnson Mfg. Co., Waterbury, Conn.
 Union Hardware Co., Torrington, Conn.
 Waterbury Mfg. Co., Waterbury, Conn.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Ferrules (Condenser, Hard Fibre)

AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)
DELAWARE HARD FIBRE CO., Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY CO., Wilmington, Del. (See adv. index, end of book)

Ferrules (Copper)

Brunswick Mfg. Co. (Plain & Nickel Plated), Brunswick, Me.
HUNGERFORD, U. T., BRASS & COPPER CO. (Boiler Flue), 497 Pearl, New York
MERCHANT & EVANS CO. (Inc.) (Seamless), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Rome Brass & Copper Co., Rome, N. Y.

Ferrules (Fibre)

(See Fibre, Hard; also Ferrules, Condenser, Hard Fibre)

*Ferrules (Iron Body, Brass Screw)

CENTRAL FOUNDRY CO., 37 Wall, New York. (See adv. index, end of book)

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 American Tube & Stamping Co. (Steel), Bridgeport, Conn.
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 Brunswick Mfg. Co. (Plain & Nickel Plated), Brunswick, Me.
 Cahli, M. F. (Steel), Boston, Mass.
 Humphrey, H. W. (Steel), Unionville, Conn.
 Lathrop, F. B. (Steel), South Acton, Mass.
 Matthews Mfg. Co. (Steel), Worcester, Mass.
NIAGARA HANDLE & FERRULE CO., 321 No. Holliday, Baltimore, Md. (See adv. index, end of book)
 Parker, Jno. L. Co., Worcester, Mass.
 Pratt Chuck Co. (Drawn), Frankfort, N. Y.
 Sparks, Withington Co. (Steel Hoe, Fork, Rake, etc.), Jackson, Mich.
 Union Hdw. Co., Torrington, Conn.
 Wilcox, Crittenden & Co., Middletown, Conn.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Ferrules (Lead)

(See Lead Traps, Bends & Ferrules)

Ferrules (Screw Driver)

NIAGARA HANDLE & FERRULE CO., 321 No. Holliday, Baltimore, Md. (See adv. index, end of book)
 Sparks, Withington Co., Jackson, Mich.

Ferrules (Tin & Sheet Metal)

Consolidated Fruit Jar Co. (Sheet Metal), New Brunswick, N. J., & 200 B'way New York
 Humphrey, H. W., Unionville, Conn.

Ferrules (Wire)

Green, C. E. & Son, 95 Passaic, Newark, N. J.
 Lathrop, F. B., South Acton, Mass.
 Wire Goods Co., Worcester, Mass.

Fibre Boards

(See Fibre, Hard)

Fibre (Brush)

American Fibre Co. (Palmetto), Jacksonville, Fla.
 Whiting, E. B. & A. C. ("Tampico"), Burlington, Vt.
 Wilkens Bros., 204 Spring, New York

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DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)

(In Sheets, Rods, Tubing, Etc.)

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(Vulcanized, also Flexible), Wilmington,
Del. (See adv. index, end of book)
Available Hard Fibre Co., Merrimac, Mass.
Continental Fibre Co., Newark, Del.
Crescent Fibre Co. (Sheets Only, Norristown,
Pa.

DELAWARE HARD FIBRE CO., Wil-
mington, Del; Works: Marshalltown, Del.
(See adv. index, end of book)

DIAMOND STATE FIBRE CO. (Also Flexible), Elsmere, Del. (See adv. index, end of book)
Elastoid Fibre Co., Boston, Mass. (of book)
Empire Fibre Co. (Also Soft), 25 W 42d, New York
Empire Mfg. Co., Wilmington, Del.
Keystone Fibre Co., Chester, Pa.

Leatheroid Mfg. Co. (For Trunks, Dress Suits,
Cases, etc.), Kennebunk, Me.
Morris Electric Co., Wilmington, Del.
National Fibre Board Co. (Electrical), Bos-
ton, Mass. Mills: Kennebunk, Me.
National Fibre & Insulation Co., Yorklyn, Del.
Spaulding, J. & Sons Co., North Rochester,

WILMINGTON FIBRE SPECIALTY CO.,
Wilmington, Del. (See adv. index, end of book)

Keyes Fibre Co., Shawmut, Me.

(See also Fibre, Hard)

AMERICAN VULCANIZED FIBRE CO.
(Vulcanized, also Flexible), Wilmington,
Del. (See adv. Index, end of book)

DELAWARE HARD FIBRE CO. (All Kinds), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)

DIAMOND STATE FIBRE CO., Elsmere,
Del. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY CO.,
Wilmington, Del. (See adv. index, end of book)

*Fibre (Trunk & Suit Case)

AMERICAN VULCANIZED FIBRE CO.,
Wilmington, Del. (See adv. index, end of book)

DELAWARE HARD FIBRE CO., Wilmington, Del. Works: Marshalltown, Del.
(See adv. index, end of book)

DIAMOND STATE FIBRE CO., Elsmere,
Del. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY CO.,
Wilmington, Del. (See adv. index, end of book)

Fibre (Vulcanized)

(For Electrical & Mechanical Purposes)

AMERICAN VULCANIZED FIBRE CO.
(also Flexible), Wilmington, Del. (See
adv. index, end of book)

DELAWARE HARD FIBRE CO., Wil-
mington, Del.; Works: Marshalltown, Del.
(See adv. above)

DIAMOND STATE FIBRE CO., Elsmere,
Del. (See adv. index, end of book)
Marshall Bros., Yorklyn, Del.

Marshall & Mitchell, Wooddale, Del.
MORRIS ELECTRIC CO., Wilming-
ton, Del.

WILMINGTON FIBRE SPECIALTY CO.
(All Kinds), Wilmington, Del. (See adv.
index, end of book)

Figures (Lead)

Willcox, Crittenden & Co., Middletown, Conn.

Filaments (Incandescent Lamp)

Electrical Accessories Co. (Importers), 1133
Broadway, New York

Fahn & McJunkin ("Planchon"), 201 E 16th.
New York

Filament Supply Co., 625 E 1st, S. B., Boston,
Jackson. Francis, E Orange, N. J. Mass.

File Renewing

AMERICAN FILE RENEWING CO.,
Providence, R. I. (See adv. following page)
Ohio File Renewing Co., Niles, O.

File & Rasp Mfrs.

Akron File Co., Akron O.
American Swiss File & Tool Co., 24 John, New
York: Factory: Elizabeth, N. J.

Barnett, G. & H. Co., 21 Richmond, Phila., Pa.
Brohm & Molltor. 257 S. Pearl, Albany, N. Y.
Buckeye Saw Mfg. Co. (Hand Cut), Columbus,
Ohio

Carver File Co. ("Delta"), 3235 Frankford av.,
Philadelphia, Pa.

Chatterton File Works (Hand Cut). Providence.
Chelsea File Works. Norwiche, Conn. R. I.

Co-operative File Co., Lawrence, Mass.
Disston, H. & Sons (Inc.), Tacony, Phila., Pa.

Dixon, Wm. (Inc.) (Also Importers "Glardon"
Swiss Files) 39 John New York

Flanagan, M., 181 Brewery, New Haven, Conn.
 Forquignon Mfg. Co., 142 W. 18th, New York

Gem City File Works, Quincy, Ill.

Graves File Co. (Hand Cut), Newark, N. J.

Grover, Jno. B. File Co., Nashua, N. H.
Hayes File Co. (For Solder, Babbitt Metal,
etc.), Detroit, Mich.

etc.), Detroit, Mich.

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Industry File Works, 1736 Columbus rd., N. W.
Cleveland, O.Jetter Mfg. Co., 861 Jefferson, Buffalo, N. Y.
Johnson & Bro. File Co., 156 Avon av., Newark,
N. J.
Littlerst Co., Menlo Park, N. J. N. J.
Liveright Bros., 20th c Allegheny av., Phila., Pa.
McCaffrey File Co., 5th & Berks, Phila., Pa.
Madden File Co., Middletown, N. Y.
Morris, E. K. & Co., 317 W 2d, Cincinnati, O.
Mound File Co., 712 Howard, St. Louis, Mo.
Murcott & Campbell, Union av., Brooklyn, N. Y.
Kansas City File & Rasp Co., Kansas City, Mo.
McClellan, Wm. & Son, 3430 Hamilton av.,
N E, Cleveland, O.National File & Tool Co. ("Vixen" Patent
Milling File), 2110 W Allegheny av., Phila.,
Pa.**NIAGARA HANDLE & FERRULE CO.**,
321 No. Holliday, Baltimore, Md. (See adv.
index, end of book)Nicholson File Co., Providence, R. I.
Peninsular File Works, 130 Beaubien, Detroit,
Mich.**PITTSBURGH GAGE & SUPPLY CO.**
("Best-Of-All" Files), 30th & Liberty av.,
Pittsburg, Pa. (See adv. index, end of
book)Relchhelm, E. P. & Co. ("American Swiss"),
24 John, New YorkRex File & Saw Co., Newcomerstown, O.
Reynolds Bros. (Hand Cut), 102 W Spring, Co-
lumbus, O.Shedinger, Wm. (Needle, Broach, etc.), Ta-
cony, Philadelphia, Pa.

Simonds File Co., Fitchburg, Mass.

Stanley, Calrow L. (Roll Files a Specialty),
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Stubbs Steel Co., 17 N 5th, Phila., Pa.
Thornhill, Robert, 59 Preble, Portland, Me.
Troy File Works, Troy, N. Y.
Westphal, F. & Co., 31st & Cherry, Milwaukee,
Wis.**WHITMAN & BARNES MFG. CO.** ("W. &
B."), West Pullman, Chicago, Ill. (See
adv. index & branch offices, end of book)***Files (Bill)****TURNER & SEYMOUR MFG. CO.**, Torrington,
Conn. (See adv. index, end of book)**Files (Horse Tooth)**Arcade Mfg. Co., Freeport, Ill.
Horn, Wm. H. & Bro., 451 N 3d, Phila., Pa.**Files (Milling)**National File & Tool Co. ("Vixen"), 2110
W Allegheny av., Phila., Pa.**Files ("Weed's" Slim Taper)**

Nicholson File Co., Providence, R. I.

Filing Cabinets & DevicesAmerican Bolt & Screw Case Co. (Plumbers'
Revolving), Dayton, O.
Amberg File & Index Co., 438 Fulton, Chicago,
Ill., & 79 Duane, N. Y.American Sectional Furniture Co. (Sectional
Stack, Top Book Case, Card Indexes, Docu-
ment Files, etc.), Minneapolis, Minn.
Art Metal Construction Co. (Sheet Steel),
Jamestown, N. Y.Automatic File & Index Co. (Automatic Ver-
tical & Sectional Filing Cabinets, etc.),
Green Bay, Wis.**BERGER MFG. CO., THE (Steel)**,
Main Office & Works: Canton, O. (See adv.
index & branch offices, end of book)Browne-Morse Co., Muskegon, Mich.
Caldwell, Jos. S. ("Well's" Adjustable, Wood
Only), Syracuse, N. Y.Canton Art Metal Co. ("Steel"), Canton, O.
Casler, W. P., Mfg. Co., Little Falls, N. Y.
Clarke & Baker Co., Illon, N. Y.
Dick, A. B. Co., 161 W Jackson boul, Chi-
cago, Ill.Dust Proof Furniture Co. (Dust Proof Ball
Bearing), Rochelle, Ill.Economy Drawing Table Co. (For Blue Prints,
etc.), Toledo, O.Ehman, C., & Co. (Index Cabinets & Sec-
tional Filing), Decatur, Ill.Eller Mfg. Co. (Steel & Sectional Metallic),
Canton, O.Federal Steel Fixture Co. (Steel), 497 W Kinzie,
Chicago, Ill.**GENERAL FIREPROOFING CO.** ("All-
steel," Metallic), Youngstown, O., & 10
E 33d, New York. (See adv. index &
branch offices, end of book)

Globe-Wernicke Co., Cincinnati, O.

Gunn Furniture Co., Grand Rapids, Mich.

Household Cabinet Works, Providence, R. I.

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Koller & Smith (Inc.), 298 B'way, New York
Krag Imperial Cabinet Co. ("Allsteel"), 816 Fulton, Chicago, Ill.
Library Bureau (Metallic), 530 Atlantic av., Boston, Mass.
Macey Co. (Ltd.), Grand Rapids, Mich., & 343 B'way, New York
Metal Sectional Furniture Co. (Steel), Benton Harbor, Mich.
Moon Deak Co., Muskegon, Mich.
Office, Bank & Library Co. (Metallic & Wood), 157 Summer, Boston, Mass.
Ohmer's, M. Sons Co., Dayton, O.
Rockwell-Wabash Co., 170 Wabash av., Chicago, Ill.

Shaw-Walker Co., Muskegon, Mich.
Steel Fixture Mfg. Co. (Metallic), Topeka, Kan.
VAN DORN IRON WORKS CO. (Steel), 2685 N 79th, Cleveland, O. (See adv. index, end of book)

Wabash Cabinet Co., Wabash, Ind.
Wagonmaker Co., Grand Rapids, Mich.
Walker, David D. Co. ("Walker's") Vertical Cabinets, to the Trade Only, 79 Lake, Chicago, Ill.
Wells Mfg. Co., Monroe, Mich.
Yawman & Erbe Mfg. Co., Rochester, N. Y., & 360 B'way, New York

Filing Case Flexible Fronts

Flexifold Door & Shutter Co. ("Flexifold"), 10 E Worcester, Worcester, Mass.

Fillers (Asphalt)

Ellis Bros. ("Bitose"), E Brooklyn, Baltimore, Md.
Standard Asphalt & Rubber Co. ("Sarco," for Dendening & Waterproofing Brick & Block Pavements), 205 La Salle, Chicago, Ill.
Texaco Co. ("Texaco") for Brick, Wood-Block & Granite Pavements, Houston, Tex., & 17 Battery, New York

Fillers (Barrel)

Cleveland Steam Gauge Co., Cleveland, O.
Moran Flexible Steam Joint Co. (Automatic), Louisville, Ky.

Fillers (Dry Battery)

International Acheson Graphite Co. ("Acheson" Graphite), Niagara Falls, N. Y.

*Fillers (Dry Earth)

WILBUR, JOB, CO. Office, Providence, R. I. Factory, Phila., Pa. (See adv. index, end of book)

Fillers (Engineers' Oil)

Wall, P., Mfg. Supply Co., Allegheny, Pa.

Fillers (Iron Casting)

Canton Paint & Varnish Co., Canton, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd., N W, Cleveland, O. (See adv. index, end of book)

Fillers (Iron Paste)

(See Iron Paste Filiera)

Fillers (Iron & Steel)

Acme White Lead & Color W'ks, Detroit, Mich.
BINSWANGER, B. & CO., 115 N 4th, Phila., Pa.
Felton, Sibley & Co., 136 N 4th, Phila., Pa.
Forest City Paint & Varnish Co., Cleveland, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
Grogan, H. F. & Co., 2113 E Sergeant, Phila., Pa.
Keystone Paint & Filler Co., Muncy, Pa.
King Paint Mfg. Co. (Iron), 27 Dunham pl., Brooklyn, N. Y.
Lawrence-McFadden Co., 1400 Franklin, Phila., Pa.
Lucas, John & Co., 322 Race, Phila., Pa.
McLennan Paint Co. (Ltd.), Detroit, Mich.
National Fire-Proof Paint Corporation, Joliet, Ill.

NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)

Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co., 141 B'way, New York
Smith Paint & Varnish Co., 329 Chestnut, Milwaukee, Wis.
Suydam, M. B. Co., 61st & Butler, Pittsburgh, Pa.

U. S. GUTTA PERCHA PAINT CO. ("Rice's") Corliss Vulcan, 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

United States Paint Co., Williamsport, Pa.
Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.

WILBUR, JOB, CO. (Iron) Office, Providence, R. I. Factory, Phila., Pa. (See adv. index, end of book)
Wilhelm, A. Co. (Liquid & Paste), Reading, Pa.
Wisconsin Graphite Co. (Graphite), Stevens Point, Wis.

Fillers (Paint)

St. Louis Surfacers & Paint Co. ("Metalsteel"), 26 S Commercial, St. Louis, Mo.
Wainwright, John C. A., Spring City, Pa.

Fillers (Paper & Linoleum)

Macneal's Varnish & Color Works, Baltimore, Md.

Fillers (Wood)

Acme White Lead & Color Works, Detroit, Mich.
Adams & Elting Co., 155 W Wash'n, Chicago, Ill.
Allentown Mfg. Co. (Paste), Allentown, Pa.
Armitage, Jno. L. & Co., Thomas & Dawson, Newark, N. J.
Atlantic Drier & Varnish Co., S Swanson & McKean, Phila., Pa.
Raidwin Filler & Varnish Co., Wyoming, Pa.
Barrett, Chas. A. P., Co., Dayton, O.
Blood, T. L. & Co., St. Paul, Minn.
Bradford, Jaa. Co., 6 E 3d, Wilmington, Del.
Bridgeport Wood Finishing Co. ("Wheeler's"), New Milford, Conn.
Buckeye Paint & Varnish Co., Toledo, O.
Burdsal, A. Co., 102 S Meridian, Indianapolis, Ind.
Butterworth, C. H. Drug & Paint Co. ("American"), 62 N Front, Philadelphia, Pa.
Canton Paint & Varnish Co., Canton, O.
Chase, Roberts & Co., Long Island City, N. Y.
Chicago Wood Finishing Co., 259 Elston, Chicago, Ill.
Devoe, F. W. & T. C. Reynolds, 101 Fulton, New York

Eagle Paint & Varnish Co., Allegheny, Pa.
Felton, Sibley & Co., 136 N 4th, Phila., Pa.
Forest City Paint & Varnish Co., Cleveland, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Graves, N. Z. & Co. (Ltd.), 3d c Arch, Phila., Pa.
Grippin Mfg. Co., Newark, N. Y.
Grogan, H. F. & Co., 2113 E Sergeant, Phila., Pa.

Howell, Chas. H. & Co., 212 Race, Phila., Pa.
Indianapolis Paint & Color Co., 244 Mass av., Indianapolis, Ind.

Kroeger Bros., 880 McKim, Baltimore, Md.
Lawrence-McFadden Co., 1400 Franklin, Phila., Pa.

McCloskey, L. J. & Co., 30th & Locust, Phila., Pa.

McLennan Paint Co. (Ltd.), Detroit, Mich.
Marietta Paint & Color Co., Marietta, O.
Masury, John W. & Son, 50 Jay, Brooklyn, N. Y.

Mephram, G. S. & Co., E St. Louis, Ill.
Moller & Schumann Co., Marcy & Flushing avs., Brooklyn, N. Y.

Nice, Eugene E. ("Nice"), 272 S 2d, Phila., Pa.

Phoenix Paint & Varnish Co., 124 Market, Phila., Pa.

Pomeroy & Fischer, 28 Frankfort, N. Y.
Ruth, B. F. & Co., Reading, Pa.

Sherwin-Williams Co., Cleveland, O.
Shoemaker, R. & Co., 4th & Race, Phila., Pa.
Smith, Edw. & Co., 141 B'way, New York

Smith Paint & Varnish Co. (Paste & Liquid), 329 Chestnut, Milwaukee, Wis.
St. Louis Surfacers & Paint Co. ("Metalsteel"), 26 S Commercial, St. Louis, Mo.

Stoekel, R. E. (Importer), 2440 3d av., New York

Suidam, M. B. Co., 61st & Butler, Pittsburgh, Pa.

THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)

Uilmann-Philpott Co., 1592 Merwin av., N W, Cleveland, O.

United States Paint Co., Williamsport, Pa.
Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.

Wadsworth-Howland & Co., 82 Wash'n, Boston, Mass.

Waterproof Paint Co., Watertown, Mass.
Waterfall, Wm. & Co., 200 N 4th, Phila., Pa.
Woodhouse, Sam'l F. (Liquid & Paste), Unity & Franklin, Phila., Pa.

Fillet (Leather)

Benskin Mfg. Co., Canton, O.
Butler, A. G., 284 Pearl, New York
Cleveland Fillet Co. ("Crescent," Wood & Leather), Cleveland, O.
Everett, A. & Son, Auburn, N. Y.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Page Belting Co., Concord, N. H.
Paxson, J. W. Co., (Also Metallic), 1021 N Delaware av., Phila., Pa.
Shanafelt Mfg. Co. ("Belding"), Canton, O.
Timmins & Chissfold, Boundbrook, N. J.

Fillets (Pattern)

Benskin Mfg. Co. (Leather & Wood), Canton, Ohio
Brimm, A. W., Seneca Falls, N. Y.
Cleveland Fillet Co., Cleveland, O.
Cleveland Galvanizing Works (Steel), Cleveland, O.
Hawker, W. S., Mfg. Co., Dayton, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Knight, H. W. & Son, Seneca Falls, N. Y.
Oliver Machinery Co., Grand Rapids, Mich.
Paxson, J. W. Co., 1021 N Delaware av., Phila., Pa.
Shanafelt Mfg. Co. (Obtuse Angle Wood), Canton, O.

Filter Cloth Mfrs.

Gulf Bag Co., 330 Notre Dame, New Orleans, La.
Lane, J. H. & Co., 110 Worth, New York
Milwaukee Bag Co., Milwaukee, Wis.
Shriver, T. & Co., Harrison, N. J.

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HYGEIA FILTER CO., Detroit, Mich. (See adv. index, end of book)
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Dodge Mfg. Co. ("Eureka"), Mishawaka, Ind.
HYGEIA FILTER CO., Detroit, Mich. (See adv. index, end of book)
Jackson Filter Mfg. Co., Chemical bldg., St. Louis, Mo.

LOOMIS-MANNING FILTER CO., 828 Land Title bldg., Phila., Pa. (See adv. index & branch offices, end of book)

NEW YORK CONTINENTAL JEWELL Filtration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)

Pittsburg Filter Mfg. Co., Farmers Bank bldg., Pittsburg, Pa.

Reisert, Hans Co. (Ltd.) (American Branch), 50 Church, New York

Roberts Filter Mfg. Co., 3011 Chestnut, Phila., Pa.

SCAIFE, WM. B. & SONS CO. ("Scalfe" & "We-Fu-G-B" Systems), 221 1st av., Pittsburg, Pa. (See adv. index, end of book)
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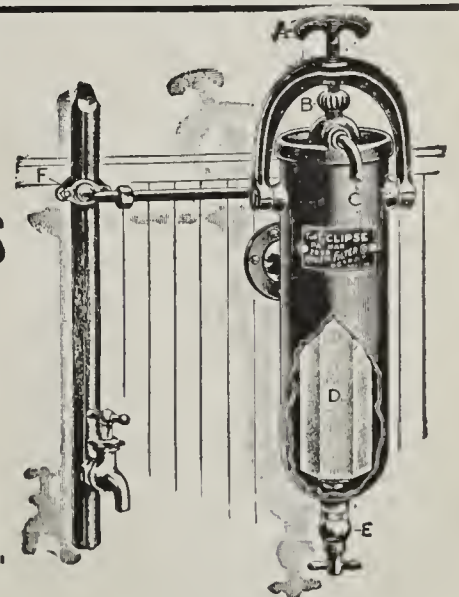
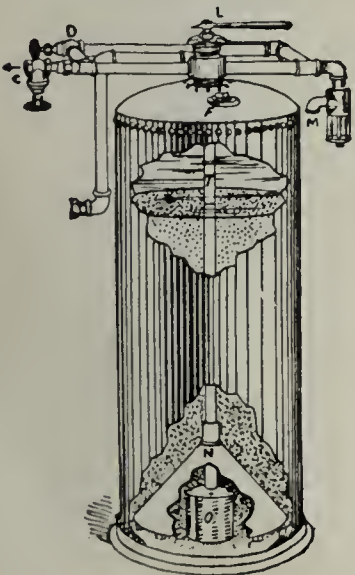
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Loew Mfg. Co. ("Loew"), Cleveland, O.
Rheinstrom Bros. ("Karl Klefer"), 919 Mar-
tin, Cincinnati, O.

Filters (Bag)

(Is Classified in its order, under Sugar Machin-
ery, in the Letter S)

Filters (Charcoal)

American Water Softener Co., 1009 Chest-
nut, Phila., Pa.
HYGEIA FILTER CO., Detroit, Mich. (See
adv. index, end of book)
LOOMIS-MANNING FILTER CO., 828 Land
Title bldg, Phila., Pa. (See adv. index &
branch offices, end of book)
NEW YORK CONTINENTAL JEW-
ell Filtration Co., 15 Broad, New York &
167 Dearborn, Chicago, Ill. (See adv. in-
dex, end of book)
Pittsburg Filter Mfg. Co., Farmers Bank bldg,
Pittsburg, Pa.
Roberts Filter Mfg. Co., 3011 Chestnut,
Phila., Pa.
SCAIFE, WM. B. & SONS CO. (Combina-
tion Charcoal & Sand), 221 1st av, Pitts-
burg, Pa. (See adv. index, end of book)

Filters (Cyanide)

Chalmers & Williams ("Rapid," also Pres-
sure Solution Filters), Commercial Nat'l
Bank bldg, Chicago, Ill.

Filters (Faucet)

Boston Brass Co., Boston, Mass.
Haydenville Co., Haydenville, Mass.
HYGEIA FILTER CO., Detroit, Mich. (See
adv. index, end of book)
Jones Mfg. Co., Boston, Mass.
Landers, Frary & Clark ("Crown"), New Brit-
ain, Conn.
Roberts Filter Mfg. Co., 3011 Chestnut,
Phila., Pa.
Seed Filter & Mfg. Co., 164 Duane, New York

Filters (Feed Water)

Acton, John ("Nelson"), 118 John, Brooklyn,
N. Y.
American Water Softener Co. ("Brunn-Low-
ener"), 1009 Chestnut, Phila., Pa.
Baragwanath, Wm. & Son, 52 W Division, Chi-
cago, Ill.
Bates Machine Co. ("Cookston") Combina-
tion, Joliet, Ill.
BEGGS, JAS. & CO. ("Blackburn-Smith")
Feed Water Filter & Grease Extractor,
109 Liberty, New York. (See adv. index,
end of book)
Boston Steam Specialty Co., 168 Congress,
Boston, Mass.
Dodge Mfg. Co. ("Eureka"), Mishawaka, Ind.
General Engineering Co. (Inc.), 10 N. 13th,
Phila., Pa.
Harrison Safety Boiler Works ("Sorge"), 17th
below Allegheny av, Phila., Pa.
HYGEIA FILTER CO., Detroit, Mich. (See
adv. index, end of book)
International Filter Co., 17th & Wabash av,
Chicago, Ill.
Jackson Filter Mfg. Co., Chemical bldg, St.
Louis, Mo.
Kennicott Water Softener Co., Railway Ex-
change, Chicago, Ill.
Liberty Mfg. Co., 6907 Susquehanna av, Pitts-
burg, Pa.
LOOMIS-MANNING FILTER CO., 828 Land
Title bldg, Phila., Pa. (See adv. index &
branch offices, end of book)
McGowan, Jno. H. Co., Cincinnati, O.
Marion Inclue Heater & Filter Co., Marion,
Ohio
NEW YORK CONTINENTAL JEW-
ell Filtration Co., 15 Broad, New York &
167 Dearborn, Chicago, Ill. (See adv. index,
end of book)
Norwood Engineering Co., Florence, Mass.
Pittsburg Filter Mfg. Co., Farmers Bank bldg,
Pittsburg, Pa.
PLATT IRON WORKS CO., Dayton, O.
(See adv. index & branch offices, end of book)
Roberts Filter Mfg. Co., 3011 Chestnut
Phila., Pa.
Ross Valve Mfg. Co. ("Railton," "Campbell"),
Troy, N. Y.
SCAIFE, WM. B. & SONS CO. ("Sel-
entific"), 221 1st av, Pittsburg, Pa. (See
adv. index, end of book)

U. S. Wind Engine & Pump Co. ("Twiced-
dale"), Batavia, Ill.
Ward & Upright Engineering Co. (Ward's Com-
bination), 41 York, Brooklyn, N. Y.

*Filters (Gasoline)

BOWSER, S. F. & CO. (Inc.), Fort Wayne.
Ind. (See adv. index & branch offices, end
of book)

Filters (Gravity & Pressure)

Blaisdell Co. (Pressure, for Filtering & Wash-
ing Slime), Los Angeles, Cal.
Cummings Filter Co. (Pressure Only), 27th &
Liberty, Pittsburg, Pa.
Field Force Pump Co. ("Carter's"), Elmira,
N. Y.
Glessel, Henry & Co. (for Cars & Stations),
Chicago, Ill.
Greer Filter Co., Perry bldg, Phila., Pa.
Hungerford Filter Corporation, Harrison bldg,
Phila., Pa.
HYGEIA FILTER CO. (Gravity Only), De-
troit, Mich. (See adv. index, end of book)
Jackson Filter Mfg. Co., Chemical bldg, St.
Louis, Mo.
Keystone Chemical Mfg. Co. ("Keystone"
Pressure Filter System), Penna. bldg,
Phila., Pa.
LOOMIS-MANNING FILTER CO., 828 Land
Title bldg, Phila., Pa. (See adv. index &
branch offices, end of book)
Lynn Filter Mfg. Co. (Stone Filters), 3250
Spring Grove av, Cincinnati, O.
NEW YORK CONTINENTAL JEW-
ell Filtration Co., 15 Broad, New York &
167 Dearborn, Chicago, Ill. (See adv. in-
dex, end of book)
Pittsburg Filter Mfg. Co., Farmers Bank bldg,
Pittsburg, Pa.
Relsert, Hans Co. (Ltd.) (American Branch),
50 Church, New York
Roberts Filter Mfg. Co., 3011 Chestnut,
Phila., Pa.
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

Filters (Mechanical)

(See Filters, Gravity & Pressure; also Filters,
Mechanical, Sugar)

Filters (Oil)

Akron Belting Co. (Krotz), Akron, O.
Bailey, R. E. & Co. ("Itlval"), Atlanta, Ga.
Burt Mfg. Co. ("Cross," "Warden," "Ameri-
can," "Burt"), Akron, O.
Capilar Oil Co. (For Export), 136 S 4th, Phila.,
Pa.
Chesterton, A. W. & Co., 64 India, Boston,
Mass.
Collins Mfg. Co. ("Dixie" Automatic Oiling
System), 612 Chestnut, Phila., Pa.
DONEGAN & SWIFT ("Acme"), 6
Murray, New York. (See adv. index, end
of book)
Durable Steam Trap Co., Youngstown, O.
Flower, W. L. Steam Specialty Co. ("Acme,"
"Rex"), 311 S 8th, St. Louis, Mo.
Franklin Filter Co. ("Famous," "Franklin"),
388 N Commercial, St. Louis, Mo.
Galloway, G. W. ("Economy"), 322 Pearl, New
York
Hall Mfg. Co. ("Hall," "Bartow Duplex," for
Waste Oil), John & Cliff, New York
Houghton, E. F. & Co. ("The Houghton"),
240 W Somerset, Phila., Pa.
Hudson Rolling Mill Co. ("Hudson"), Bloom-
field, N. J.
INDUSTRIAL INSTRUMENT
CO. ("Eclipse"), Foxboro, Mass. (See adv. in-
dex & branch offices, end of book)
Iarecki Mfg. Co. (Automatic Pressure), Erie,
Pa.
Lippincott Steam Specialty & Supply Co., New-
ark, N. J.
Metz, R. P. Mfg. Co. ("Standard"), 608 N
Hancock, Phila., Pa.
Newman-Willson Co. ("New Wonder"), Lam-
bertville, N. J.
Northrup Lubricator Co. ("Famous"), St. Louis,
Mo.
Nusbanm, F. A., 950 W Washington, Dayton,
Ohio
Oil & Waste Saving Machine Co. (Turbine
Centrifugal), Real Estate Trust bldg, Phila.,
Pa.
PITTSBURGH GAGE & SUPPLY CO.
("White Star"), 30th & Liberty av, Pitts-
burgh, Pa. (See adv. index, end of book)
Purity Oil Filter Mfg. Co. ("Ideal" &
"Purity"), Pittsburg, Pa.
Robertson, Jas. L. & Sons (Inc.), 48 Warren,
New York

Scranton Oil Filter Co., Scranton, Pa.
SHAW, BENJ. F. CO ("Shawco"), Wil-
mington, Del. (See adv. index, end of
book)
Sims Co., Erie, Pa.
Syracuse Gauge Mfg. Co., Syracuse, N. Y.
Turner Oil Filter Co. ("Turner"), Niles, Mich.
WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of
book)
Wright Mfg. Co., Detroit, Mich.

Filters (Oil from Metal Chips)

(See Separators, Centrifugal)

Filters (Oil Refiners')

Hammond Iron Works, Warren, Pa.
Struthers-Wells Co., Warren, Pa.

Filters (Sand)

American Water Softener Co., 1009 Chestnut,
Phila., Pa.
HYGEIA FILTER CO., Detroit, Mich. (See
adv. index, end of book)
LOOMIS-MANNING FILTER CO., 828 Land
Title bldg, Phila., Pa. (See adv. index &
branch offices, end of book)
NEW YORK CONTINENTAL JEWELL
Filtration Co., 15 Broad, New York & 167
Dearborn, Chicago, Ill. (See adv. index, end
of book)
Pittsburg Filter Mfg. Co., Farmers Bank bldg,
Pittsburg, Pa.
Remmers, B. & Sons (Automatic, for Sugar,
Glucose & Chemical Liquors, etc.), Bourse
bldg, Phila., Pa.
Roberts Filter Mfg. Co., 3011 Chestnut,
Phila., Pa.
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

Filters (Tripoli)

American Water Softener Co., 1009 Chestnut,
Phila., Pa.
HYGEIA FILTER CO., Detroit, Mich. (See
adv. index, end of book)
Roberts Filter Mfg. Co., 3011 Chestnut,
Phila., Pa.
SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

Filters (Vacuum)

Taylor Foundry & Engineering Co., Grass
Valley, Cal.

Filters (Waste Oil)

(See Filters, Oil)

Filters (Water)

American Water Softener Co., 1009 Chestnut,
Phila., Pa.
Anderson Filter & Machine Co., 814 Jefferson,
Detroit, Mich.
Atlantic Filter Co. ("Paddock"), White
bldg, Buffalo, N. Y.
Berkefeld Filter Co. (A. Glesse), 4 Cedar, New
York
Bishop & Babcock Co. ("Eureka"), 49th &
Hamilton av, Cleveland, O.
Buffalo Mfg. Co., Buffalo, N. Y.
Buhring Water Purifying Co., 68 Murray, New
York
Champion Safety Lock Co. ("Champion"
Germ Proof), Geneva, Ohio
Crescent Filter & Specialty Co. ("Crescent"),
New Orleans, La.
Cummings Filter Co. (Bone Black only), 27th
& Liberty, Pittsburg, Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Ellis Water Purifier Co. ("Ellis"), 28 School,
Boston, Mass.
Field, David W., Builders' Exchange, Phila.,
Pa.
Fulper Pottery Co. (Portable Natural Stone,
Germ Proof), Flemington, N. J.
General Engineering Co. (Inc.), 10 N. 13th,
Phila., Pa. & 419 W. 42d, N. Y.
Globe Filter Co., 1015 Sausom, Phila., Pa.

**When writing to firms listed
in this book please mention
HENDRICKS'
COMMERCIAL REGISTER**

GRISCOM-SPENCER CO. ("Reilly")
90 West, New York, & ft. Washington av,
Philadelphia, Pa. (See adv. Index & branch
offices, end of book)

REILLY FILTER

FOR FILTERING

GREASE AND OIL FROM WATER

Designed for High Pressure.

Absolute Necessity in
Boiler Plants.

THE GRISOM-SPENCER CO.
90 West Street, NEW YORK, N. Y.

Hungerford Filter Corporation, Harrison bldg,
Phila., Pa.
HYGEIA FILTER CO., Detroit, Mich. (See
adv. index, end of book)
International Filter Co., 17th & Wabash av,
Chicago, Ill.
Jackson Filter Mfg. Co., Chemical hldg, St.
Louis, Mo.
Jewell Engineering Co. ("Quartz"), 206 W
Lake, Chicago, Ill.
Jones Mfg. Co. ("Gem," "Hub," "Modern,"
"Mystic"), 243 Franklin, Boston, Mass.
KOVEN, L. O. & BRO., 50 Cliff, New
York (See adv. index, end of book)
LOOMIS-MANNING FILTER CO., 828 Land
Title bldg, Phila., Pa. (See adv. Index &
branch offices, end of book)
Lynn Filter Mfg. Co. (Quartz Filters), 3250
Spring Grove av, Cincinnati, O.
McDowell Mfg. Co. (Electric Ozone), 541
Wood, Pittsburg, Pa.
National Separator & Machine Co., Concord,
N. H.
NEW YORK CONTINENTAL JEWELL
Filtration Co., 15 Broad, N. Y., & 167
Dearborn, Chicago, Ill. (See adv. index, end
of book)
Norwood Engineering Co. (Filters for Mills),
Florence, Mass.
Penn Engineering Co. (Inc.) (Of all descrip-
tions), 1421 Filbert, Phila., Pa.
Philadelphia Water Purification Co. ("El-
freth"), 1700 N 12th, Phila., Pa.
Pittsburg Filter Mfg. Co., Farmers Bank bldg,
Pittsburg, Pa.
Rapld Safety Filter Co., 135 Front, New York
Reed Filter Co., San Francisco, Cal.
Reisert, Hans Co. (Ltd.) (American Branch),
50 Church, New York
Roberts Filter Mfg. Co. (For Every Purpose),
3011 Chestnut, Phila., Pa.

SCAIFE, WM. B. & SONS CO. (for
Dwellings, Hotels, Hospitals, etc.), 221 1st
av, Pittsburg, Pa. (See adv. Index, end of
book)
Wetherill, R. & Co. (For Water Works),
Chester, Pa.

Filters (Water, Portable)

American Filter Co. ("Noxall"), Milwaukee
Wis.
Aquapura Filter Mfg. Co., 302 Market, St.
Buffalo Mfg. Co., Buffalo, N. Y. Louis, Mo.
Champion Safety Lock Co. (Germ Proof),
Geneva, O.
HYGEIA FILTER CO., Detroit, Mich. (See
adv. index, end of book)
Linke Acorn & Advance Filter Co. (Stone Tub)
1559 B'way, New York
Pasteur-Chamberland Filter Co. (Pasteur Germ
Proof), Dayton, O.
Royal Machine Co., 61 N. J. R. av, New-
ark, N. J.

Finish (Hard Oil)

(See Hard Oil Finish)

Finish (Wall)

(See Wall Finish)

Fire Brick (Ground)

Gautier, J. H., & Co. (In Barrels or Bulk),
Jersey City, N. J.

Fire Clay

Argillo Works (Milled), Rock Island, Ill.
Atlanta Terra Cotta Co., Atlanta, Ga.
Baltimore Terra Cotta Works (Ground & in
Bulk), Baltimore, Md.
Berr, James E., Woodbridge, N. J.
Bickford Fire Brick Co. (In Bulk or Sacks),
Pittsburg, Pa.
Bloomfield Clay Co., Metuchen, N. J.
Borner, Cyrus Co., 23d av, Race, Phila., Pa.
Brooklyn Fire Brick Works (Inc.), 88 Van Dyke,
Brooklyn, N. Y.
Cuckeye Fire Clay Co. (Ground, etc.), Uhrichs-
ville, O.
Carnegie Brick & Pottery Co., San Francisco,
Cal.
Clark, N., & Sons, 17 Spear, San Francisco,
Cal.
Cooper, John, 111 Clay, Brooklyn, N. Y.
Denny-Renton Clay & Coal Co., Seattle, Wash.
Didier-March Co., 50 Church, New York;
Works: Keashy, N. J.
Dover Fire Brick Co., Cuyahoga Bldg., Cleve-
land, O. Works, Strassburg, O.
Duffy, J. P. Co., 440 E 138th, New York.
Excelsior Fire Clay Co., Lisbon, O.
Federal Clay Product Co., Mineral City, O.
FISKE & COMPANY (Inc.), 25 Arch, Bos-
ton, Mass., & Flat Iron bldg., New York.
(See adv. index, end of book)
Fultonham Brick Co. (Ground), Axline, O.
Garfield Fire Clay Co., Robinson, Pa.
Gautier, J. H., & Co. (Also Ground), Jersey
City, N. J.
Harrison-Walker Refractories Co., Farmers'
Bank Bldg., Pittsburg, Pa., & 1133 B'way,
New York

Hatfield & Phillips, Alexandria, Pa.
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. Index, end of book)
Hocking Valley Fire Clay Co. (Ground), Nel-
sonville, O.
Interstate Condit & Brick Co., Scranton, Pa.
Iowa Pipe & Tile Co., Des Moines, Ia.
KREISCHER BRICK MFG. CO., 119
E 23d, New York. Works, Kreischerville,
S. I. N. Y. (See adv. index, end of book)
La Clede-Christy Clay Products Co., St. Louis,
Mo.
Lincoln Fire Brick & Shape Co., Farmers' Bank
bldg, Pittsburg, Pa. Works, Bolivar, Pa.
Little Falls Fire Clay Co., Little Falls, Wash.
McLeod & Henry Co. (Back Combustion Cham-
ber Arch), Troy, N. Y.
Mack Mfg. Co., Land Title bldg, Philadelphia,
Pa.; Works: New Cumberland, W. Va.
Manown Mfg. Co. (Ground), 232 5th av, Pitts-
burg, Pa.
Massillon Stone & Fire Brick Co., Massillon,
Ohio
MAURER, HENRY & SON (Ground
& in Bulk), 420 E 23d, New York; Penna.
bldg, Philadelphia, Pa.; Works: Maurer,
N. J. (See adv. front inside cover)
MISSISSIPPI GLASS CO. (Cupola Linings
or Blocks), 115 B'way, New York. (See
adv. Index & branch offices, end of book)
Monmouth Mining & Mfg. Co., Monmouth, Ill.
Mutton Hollow Fire Brick Co. (Ground), Wood-
bridge, N. J.
Negley Clay Co., Negley, O.
Nelsonville Brick Co. (Ground), Nelsonville, O.
Ohio Fire Brick Co., Oak Hill, O.
Ohio Fire Clay Mfg. Co., Steubenville, O.
Osceola Silica & Fire Brick Co., Osceola
Mills, Pa.
Peekskill Fire Brick Works, Peekskill, N. Y.
Penna Fire Brick Co., Beech Creek, Pa.
Philadelphia Fire Brick Works, 2306 Vine,
Phila., Pa.
Preshrey Stove Lining Co., Taunton, Mass.
Robinson Clay Product Co. (Ground), Akron, O.
RUTLAND FIRE CLAY CO., Rutland,
Vt. (See adv. index & branch offices, end of
book)
St. Louis Vitrlified & Fire Brick Co., 107 N 7th,
St. Louis, Mo.
Smith, A. F. Co., New Brighton, Pa.
Southern Fire Brick & Clay Co., 138 Wash'n,
Chicago, Ill. Works, Mt. Silica, Ind.
SPRINGFIELD FACING CO., Spring-
field, Mass. (See adv. index, end of book)
Standard Fire Brick Co., Empire hldg, Pitts-
burg, Pa.
Steiger Terra Cotta & Pottery Works, San
Francisco, Cal.
Stevens, H. Sons Co. (Milled), Macon, Ga.
Stratton Fire Clay Co., Empire, O.
Streator Clay Mfg. Co., Streator, Ill.
Sweeney, Geo. & Co., 1334 Ridge av., Phila.,
Tygart Fire Brick Co., Fullerton, Ky.
Union Mining Co., Mount Savage, Md.
Washington Brick, Lime & Mfg. Co. (Milled &
Screened), Spokane, Wash.
Wassal Fire Clay Co., 40 E. Spring, Columbus, O.
Waterbury Crucible Co., Waterbury, Conn.
West Virginia Fire Clay Mfg. Co. (Ground,
Flaked or Dust, etc.), Pittsburg, Pa.
West Virginia Fire Clay Mfg. Co., Pittsburg,
Wynn, W. H., & Co., Blue Bell, Pa.

LOOMIS FILTERS.

ESTABLISHED 1880.

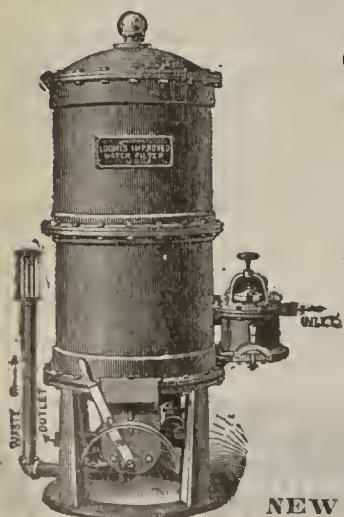
Our Patents cover the only safe principles, and the
latest mechanical apparatus for the filtration of water.

Private Residences, Hotels, Office Buildings, Apartment Houses, Clubs,
Public and Private Institutions, Mills, Factories, Boiler Plants, Laundries, Dye
and Bleach Works, Bottling Establishments, Etc. Villages, Towns and City
Water Supplies.

LOOMIS-MANNING FILTER CO.,

Main Office, 828 LAND TITLE BUILDING,
Broad and Chestnut Streets,
PHILADELPHIA, PA.

NEW YORK. CHICAGO. BOSTON. BUFFALO. BALTIMORE. WASHINGTON.



Fire Department Supplies

(Consult Index of Contents for the Particular Article Required; See also Mill & Factory Supplies)

Fire Door Fittings (Automatic)

Allith Mfg. Co. ("Allith"), Chicago, Ill.
Automatic Door & Gate Co., 123 Liberty, New York
Brewer Bros. (Rails, Brackets, etc.), 614 Filbert, Philadelphia, Pa.
California Fire Proof Door Co. ("Wilcox"), Los Angeles, Cal.
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Keystone Fire Door Co. (Inc.) ("Standard"), Park bldg., Pittsburg, Pa.
Dentier Bagger Co., Vicksburg, Mich.
Lane Bros. Co., Poughkeepsie, N. Y.
McCABE HANGER MFG. CO., 425 W. 25th, New York. (See adv. index, end of book)
NEWHALL, HENRY B., 90 West, New York
Peters, James & Son (Sliding & Swinging Automatic Fire Door & Shutter Hardware), 1934 N. Front, Philadelphia, Pa.
Prouty, T. C. Co. (Ltd.), Albion, Mich.
Richards Mfg. Co., Aurora, Ill.
Richmond Safety Gate Co., Richmond, Ind.
Victor Mfg. Co. (Heat Releasing Devices), Newburyport, Mass.
Wilcox Mfg. Co., Aurora, Ill.

Fire Doors (Automatic)

BOLLES, J. E. IRON & WIRE WORKS. Detroit, Mich. (See adv. index, end of book)
Coburn Trolley Track Mfg. Co., Holyoke, Mass.
Keystone Fire Door Co. (Inc.), Pittsburg, Pa.
RAPP, JOHN W. CO. (Underwriters' Standard Tin Covered). Gen'l Offices & Works College Point, N. Y., & Sales Offices, 4 Madison av, New York. (See adv. index, end of book)
Richmond Safety Gate Co., Richmond, Ind.
Underwriters' Hatch Door Co. (Electric), 58 N. Jefferson, Chicago, Ill.

Fire Engines (Chemical)

American Fire Apparatus Co., 1 Madison av, New York
America-La France Fire Engine Co., Elmira, N. Y.
BADGER FIRE EXTINGUISHER CO., 32 Portland, Boston, Mass. (See adv. index, end of book)
Boyd, James & Bro. ("Boyd," "Champion"), 14 North 4th, Phila., Pa.
Chemical Fire Engine Co., Des Moines, Ia.
Hayward, S. F. & Co., 39 Park pl, New York
Kanawha Chemical Engine Mfg. Co., Charleston, W. Va.
Nott Fire Engine Co., Minneapolis, Minn.
Reading Fire Apparatus Works, Reading, Pa.
Rex Fire Extinguisher Co., 74 Cortland, New York
Seagrave Co., Columbus, O.
Stempel Fire Extinguisher Mfg. Co., 4250 N. 20th, St. Louis, Mo.
Stewart, A. F. & S. C. (Combination Chemical Engines & Hose Wagons), Rochester, N. Y.
Tea Tray Co. ("Accurate"), Mulberry & Murray, Newark, N. J.
Webb Motor Fire Apparatus Co. (Automobile), Vincennes, Ind.)
Woodhouse Mfg. Co., 50 W. B'way, New York

Fire Engines (Gasoline)

Waterous Engine Works Co., St. Paul, Minn.
Westinghouse Co., Schenectady, N. Y.

Fire Engines (Hand)

American-La France Fire Engine Co., Elmira, N. Y.
BADGER FIRE EXTINGUISHER CO. ("Chemical"), 32 Portland, Boston, Mass. (See adv. index, end of book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Fire Engines (Steam)

Ahrens Fire Engine Co. ("Continental"), Alfred & Cook, Cincinnati, O.
American-LaFrance Fire Engine Co. (Also Hand), Elmira, N. Y.
International Power Co. ("Amoskeag"), Old South bldg., Boston, Mass.
Nott Fire Engine Co., Minneapolis, Minn.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Fire Escapes

CALIFORNIA.

(See Iron, Architectural & Ornamental)

COLORADO.

(See Iron, Architectural & Ornamental)

CONNECTICUT.

(See Iron, Architectural & Ornamental)

DISTRICT OF COLUMBIA.

(See Iron, Architectural & Ornamental)

GEORGIA.

(See Iron, Architectural & Ornamental)

ILLINOIS.

(See also Iron, Architectural & Ornamental)

CHAMPAIGN—Burr, E. M. & Co. (Spiral)
CHICAGO—AMERICAN COUNTERBALANCE Stair Co., 1245 Fillmore
American Iron & Wire Works, 577 Carroll av

Barbee Wire & Iron Works, 44 Dearborn
Central Iron Works of Chicago, 256 W Lake
Cowles, J. T., Co., 136 West Lake

Enos Fire Escape Co., 179 N Sangamon
HALSTED, JOSEPH CO., 388 W Randolph. (See adv. index, end of book)

HANKE IRON & WIRE WKS., 1234 Fillmore. (See adv. index, end of book)

JACKSON, WM. H. COMPANY, 163 Michigan av. (See adv. index, end of book)

Johnson, Chas. & Son, 95 E. Indiana
Johnston Iron Works, 259 E Division

LONDON, E. R., IRON & WIRE WKS., 18 N May. (See adv. index, end of book)

Ruedel, John M., 514 Ogden av
SMITH, F. P., WIRE & IRON WKS., 100 Lake. (See adv. index, end of book)

UNION FOUNDRY WORKS, First National Bank bldg. (See adv. index, end of book)

INDIANA.

(See Iron, Architectural & Ornamental)

IOWA.

(See Iron, Architectural & Ornamental)

KENTUCKY.

(See Iron, Architectural & Ornamental)

MAINE.

(See Iron, Architectural & Ornamental)

MARYLAND.

(See Iron, Architectural & Ornamental)

MASSACHUSETTS.

(See Iron, Architectural & Ornamental)

MICHIGAN.

(See also Iron, Architectural & Ornamental)

DETROIT—Acme Fancy Wire Works, Canfield & Moran
BOLLES, J. E. IRON & WIRE WORKS, (See adv. index, end of book)

Barnum, E. T. Wire & Iron Works, 82 Washington
VULCAN CO. (See adv. index, end of book)

SAGINAW—Koehler Bros., Saginaw, Mich.

MINNESOTA.

(See Iron, Architectural & Ornamental)

MISSOURI.

(See Iron, Architectural & Ornamental)

NEBRASKA.

(See Iron, Architectural & Ornamental)

NEW JERSEY.

(See Iron, Architectural & Ornamental)

NEW YORK.

BUFFALO—(See Iron, Architectural & Ornamental)

NEW YORK CITY.

Borough of Brooklyn.

(See also Iron, Architectural & Ornamental)

BROOKLYN—Ajax Iron & Wire Co., 75 York
Child, W. C. W., 353 Kingsland av
Clarke & Stowe, 221 G'point av
Eagle Iron Works (Inc.), 850 De Kalb av
Fluegel, Anton, 221 Cook
Green, Bryan G., 207 Pacific
Hecla Iron Works, N. 11th & Berry
Kennington, Geo. W., ft 24th
Reliance Architectural Iron Works, 249 Monitor
Webb & Bloss, 251 Monitor

Boroughs of Manhattan & Bronx.

(See also Iron, Architectural & Ornamental)

NEW YORK—Abr. Anton, 701 Elton av
Allgoever, Chas. W., 455 E 169th
American Fire Apparatus Co. (Chain Ladder), 1 Madison av

Bayer, Chas. Co., 407 E 125th
Bowes, John J., 227 W. 29th

Central Iron Works, 420 E 48th
Cornell, J. B. & J. M. Co., 26th & 11th av

Dimond, Thomas, 45 W 34th
Happel, Adam, 1803 1st av

Hauptman, Wm., 406 E 104th
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), & 163 Michigan av., Baltimore, Md. (See adv. index, end of book)

Lyon, W. E. Iron Works, 202 E 46th
Palmer, B., 231 W 50th

Palmer, Harris, 517 W 130th
SCHREIBER, L. & SONS CO., 1133 B'way. (See adv. index, end of book)

Schultz, H., 310 W 133d
Vreeland, G. A., 229 W. 36th

Borough of Queens.

(See also Iron, Architectural & Ornamental)

(End of New York City)

ROCHESTER—Brazil Fire Escape Co. ("Brazil's Panic Proof"), Powers bldg
Kohlmetz, Chas. E. & H. L., 180 N Water

SYRACUSE—Smith & Caffrey Co. (Props.)
(Phoenix-Porter, Foundry), Syracuse, N. Y.

UTICA—United States Fire Protection Co. ("Davy" Automatic)

OHIO.

(See also Iron, Architectural & Ornamental)

AKRON—Ornamental Iron Works Co.
CANTON—CANTON FOUNDRY & MACHINE Co. (See adv. index, end of book)

COLUMBIA IRON & WIRE WORKS CO. (See adv. index, end of book)

CINCINNATI—Nimmo Fence & Wire Works Co., 305 E 4th

SCHREIBER, L. & SONS CO., 8th & Eggleston av. (See adv. index, end of book)

Union Iron Works Co., Colerain av & Sassafras

CLEVELAND—McArthur Portable Fire Escape Co. (Portable), 1999 Clark av. S W

COLUMBUS—COLUMBUS WIRE & IRON Works Co. (See adv. index, end of book)

DAYTON—American Fence & Forge Co.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.

The BEST SAFEST AND MOST SUBSTANTIAL FIRE ESCAPE, made by P. RIESECK, Allegheny, Pa.
SEND FOR ESTIMATES.

HAMILTON—MEYERS, FRED. J. MFG.
Co. (See adv. index, end of book)
KENTON—CHAMPION IRON CO. (See
adv. index, end of book)
SANDUSKY—Mack Iron Works Co.
TOLEDO—Donovan Wire & Iron Co.
Toledo Wire & Iron Works
YOUNGSTOWN—Harris Safety Co. ("Harris"
Safety)

OREGON.

(See Iron, Architectural & Ornamental)

PENNSYLVANIA.

(See also Iron, Architectural & Ornamental)

ELLWOOD CITY—Glen Mfg. Co.
PHILADELPHIA—DARBY, EDW. & SONS
Co., 231 Arch. (See adv. index, end of
book)

REMPPIS, WILLIAM F. CO., 1500
Sansom. (See adv. index, end of book)

PITTSBURG—SOMMERVILLE IRON &
Bronze Co., 5637-5649 Butler. (See adv.
index, end of book)

RIESECK, P., Allegheny av. & Rebecca.
(See adv. index, end of book)

TAYLOR & DEAN, Penn. av. & 25th.
(See adv. index, end of book)

READING—REMPPIS, WILLIAM F. CO.
(See adv. index, end of book)

RHODE ISLAND.

(See Iron, Architectural & Ornamental)

TENNESSEE.

(See Iron, Architectural & Ornamental)

VIRGINIA.

(See Iron, Architectural & Ornamental)

WISCONSIN.

(See Iron, Architectural & Ornamental)

Fire Escapes (Automatic)

Harris Safety Co., Youngstown, O.
Hayward, S. F. & Co., 39 Park pl, New York
McArthur Portable Fire Escape Co., 1999
Clark av, S W, Cleveland, O.
Parker-Bruen Mfg. Co. (Inc.) ("Model,"
"Champion" Folding), 1170 B'way, New
York
United States Fire Protection Co. ("Davy's"),
Utica, N. Y.

Fire Escapes (Covert Patent)

Covert Fire Escape Co., Green Island, Troy,
N. Y.

Fire Escapes ("Kirker-Bender")

Dow Wire & Iron Works, Louisville, Ky.

Fire Escapes (Portable)

Hamblin & Russell Mfg. Co. ("Lodewick's"
Steel Non-Combustible), Worcester, Mass.

Hayward, S. F. & Co. ("Wilson"), 39 Park
pl, New York
Lee Portable Fire Escape Co., 853 B'way,
New York
McArthur Portable Fire Escape Co. ("Mc-
Arthur"), Cleveland, O.

Fire Escapes (Rope)

Hayward, S. F. & Co., 39 Park pl, New York
Small, D. D., Waltham, Mass.
Travers, J. P. & Son, 46 Beekman, New York

Fire Escapes (Spiral)

American Fire Escape Co. (All Steel), St.
Louis, Mo.

Fire Extinguishers

(See also Sprinklers, Automatic Fire)

CALIFORNIA.

SAN FRANCISCO—Goodyear Rubber Co., 573
McNally, M. J., 260 1st Market
Moore, Geo. P. & Co., 721 G. G. av

CONNECTICUT.

HARTFORD—Pope Mfg. Co. ("Kilfyre" Dry
Powder)

ILLINOIS.

CHICAGO—Chicago Fire Apparatus Co.
("Chicago" Hand Pump), 89 Lake
General Fire Extinguisher Co. (Automatic),
Royal Ins. bldg.
Johns, H. W.-Manville Co. ("Manville" Dry
Powder), 171 Randolph
McMorran, Edw. E. & Co., 15 N Clinton
Miller Chemical Engine Co., 149 Huron
Niagara Fire Extinguisher Co., 226 La Salle
Phoenix Fire Extinguisher Co., First Na-
tional Bank bldg
JOLIET—Wilcox, C. C. (Dry Tube)

If You Are In Doubt

as to the original manufac-
turer of any machine or
tool on which the patents
have expired, that is now
being exploited by many
makers, ask HENDRICKS'—

They Can Tell You**INDIANA.**

LOGANSPOUT—Obenchain & Boyer

MAINE.

**PORTLAND—Chemical Hand Fire Extn-
guisher Co.**

MARYLAND.

BALTIMORE—Maryland Chemical Co., 227 W
Mulberry

MASSACHUSETTS.

**BOSTON—BADGER FIRE EXTING-
guisher Co., 32 Portland. (See adv. in-
dex, end of book)**

Barnes, Henry K. ("Fire King" Chemical),
104 Franklin

Callahan, Cornelius Co., 127 Purchase
General Fire Extinguisher Co. (Automatic)
Knight & Thomas (Inc.) ("Underwriters'"),
99 State

Standard Extinguisher Co., 78 Portland
Walworth Mfg. Co., 128 to 136 Federal

HUBBARDSTON—McWilliams, J. E. & Son
LAWRENCE—Perkins, C. N. Co.

MICHIGAN.

DETROIT—Ireland & Matthews Mfg. Co. ("I.
& M.")

Johns, H. W.-Manville Co. ("Manville"
Dry Powder, "Success" Chemical), 12
Jefferson av

GRAND RAPIDS—Hamilton, E. A. & Co.
("Waggoner" Magneto)

MISSOURI.

KANSAS CITY—Johns, H. W.-Manville Co.
("Manville" Dry Powder), 1416 Main

ST. LOUIS—General Fire Extinguisher Co.
(Automatic)

Missouri Lamp & Mfg. Co. ("Acme," "Roy-
al," "Phoenix," "Advance," "Missouri,"
"U. S.," "Rex" & "Able"), 114 Elm

Stempel Fire Extinguisher Mfg. Co., 4250
N 20th

NEW HAMPSHIRE.

LACONIA—Esty Sprinkler Co.

NEW JERSEY.

NEWARK—Landau, Henry W. ("Flite Fire,"
Dry Powder Chemical), 117 Green

Tea Tray Co. ("Accurate," also "Marten"
for Automobiles & Motor Boats, etc.),
Mulberry c Murray

TRENTON—Hunt, Jas. B. Mfg. Co.

NEW YORK.

BUFFALO—General Fire Extinguisher Co.
Western Inspection Co. (Automatic)

NEW YORK—American Fire Apparatus Co.,
1 Madison av

BADGER FIRE EXTINGUISHER
Co., 599 B'way. (See adv. index, end of
book)

Columbia Fire Extinguisher Co., 174 Cen-
Fyricide Mfg. Co., 44 Murray

General Fire Extinguisher Co., 111 B'way



BADGER'S FIRE EXTINGUISHER AND BADGER'S 40 Gal. CHEMICAL ENGINE

are inspected and tested at factory by the Underwriters'
Laboratories Inc., under supervision of the National
Board of Fire Underwriters and APPROVED FOR USE.

Badger's is the only 40 gallon engine that has passed the
inspection and test, and received the approval.

Badger Fire Extinguisher Company 32 Portland Street
Boston, Mass., U.S.A.

Hayward, S. F. & Co. ("Babcock," "Patrol," "Champion," "Liquid Seal" & "Rescue" Chemical; also Hand Grenades), 39 Park pl
International Sprinkler Co., 43 Exch. pl
Johns. H. W.-Manville Co. ("Manville" Dry Powder, "Success" Chemical), 100 William
Johnston, Walter R. Mfg. Co. ("New Departure"), 68 Wall
Manufacturers' Automatic Sprinkler Co., Liberty
Metropolitan Fire Extinguisher Co., 1133 B'way
Minimax Co. (Chemical), 1165 B'way
Pyrene Co. ("Pyrene"), 34 W 33d
Rapid Safety Fire Exting. Co., 135 Front
Rex Fire Extinguisher Co., 74 Cortlandt
Rodriguez, August, 91 Chambers
Rowe, A. C. & Son ("Knight," "Underwriters'" Hand), 280 B'way
Safety Fire Extinguisher Co., 29 W 42d
Salmon, H. H. & Co., 82 Wall
U. S. Fire Ext'r Mfg. Co., 433 W. 24th
Vogel, Henry G. Co., 12 Walker
Woodhouse Mfg. Co., 50 W B'way
ROCHESTER—Home Chemical Co., 107 Adams
SYRACUSE—Syracuse Chemical Fire Extinguisher Co. ("Syracuse" Chemical for Street Cars)
UTICA—Childs, O. J. Co. ("Child's," "Utica"),

OHIO.

AKRON—Niagara Fire Extinguisher Co.
CINCINNATI—Cincinnati Tin & Japan Co., Sycamore & Canal
Eagle Mfg. Co., Blue Rock & Turrill
General Fire Extinguisher Co. (Automatic)
Thompson, Walter M. & Co., 835 W 5th
CLEVELAND—General Fire Extinguisher Co.
COLUMBUS—Seagrave Co. (Automatic)
YOUNGSTOWN—Harris Safety Co.

PENNSYLVANIA.

LANCASTER—Royal Mfg. Co. ("Quick Out")
PHILADELPHIA — Boyd, Jas. & Bro. ("Keystone"), 14 N 4th
Clay, Jno. H., 1320 Ridge av
General Fire Extinguisher Co. (Automatic)
International Sprinkler Co., 517 Arch
National Inspection Co. ("Bradford"), 420 Sansom
Underwriters' Fire Ext'rs, Phila. Bourse
PITTSBURG — Johns, H. W.-Manville Co. ("Manville" Dry Powder), 951 Liberty
McKenna Bros. Brass Co.
YORK—Spangler Mfg. Co. ("Spangler")

RHODE ISLAND.

PROVIDENCE—General Fire Extinguisher Co. (Automatic)

WISCONSIN.

MILWAUKEE — Badger Chemical Mfg. Co. ("Mitchell")
Johns, H. W.-Manville Co. ("Manville" Dry Powder), 225 Clybourn
WISCONSIN IRON & WIRE Works, 190 E Water. (See adv. index, end of book)

*Fire Extinguishers ("Badger's")

BADGER FIRE EXTINGUISHER CO., 32 Portland, Boston, Mass. (See adv. index, end of book)

*Fire Extinguishers (Chemical)

BADGER FIRE EXTINGUISHER CO., 32 Portland, Boston, Mass. (See adv. index, end of book)

Fire Extinguishers (Steam)

Edna Smelting & Refining Co. ("Porteous" for Locomotives & Engines), 525 Reading rd. Cincinnati, O., & Monadnock blk, Chicago, Ill.

Fire Extinguishers & Disinfecting Apparatus

Clayton Fire Extinguisher & Disinfecting Co. ("Clayton" Gas for Ships, etc.), 17 Battery pl, New York

*Fire Floors & Partitions

FLEMING & CO., 123 Liberty, New York. (See adv. index, end of book)

*Fire Gilt & Fire Enameling

GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

Fire Hose Mfrs.

(See Hose Manufacturers, Fire)

Fire Hose Reels (Swinging)

(See Reels & Racks, Fire Hose)

Fire Hose Shut-off

Rowell, G. D. & Son ("Samson" Automatic), Appleton, Wis.

*Fire Mortar & Kaolin

MAURER, HENRY & SON, 420 E. 23d, New York; Penna. bldg, Phila., Pa. Works, Maurer, N. J. (See adv. Front Inside Cover)

Fire-Place Furnishings Mfrs.

Blacklock Foundry (Andirons, etc.), South Pittsburgh, Tenn.
Boston Brass Andiron Co. (Andirons, Fire Sets & Fenders), 104 Utica, Boston, Mass.
Bradley & Hnbard Mfg. Co. (Andirons, Fenders, Fire Sets, etc.), Meriden, Conn.
Bridgeford & Co. (Fancy Grates & Furnishings), Louisville, Ky.
Cahill Iron Works (Plated Grates, etc.), Chattanooga, Tenn.
Carr, Jas. W. (Grates & Fenders), Richmond, Va.
Chattanooga Implement & Mfg. Co. (Grates, all kinds), East Chattanooga, Tenn.
Colonial Fire Place Co., 12th & 46th av, Chicago, Ill.
CURRIER, E. BRADLEY CO., 119 W 23d, & 114 W 24th, New York. (See adv. index, end of book)
Dighton Furnace Co., (Grates, & Irons, etc.), Taunton, Mass.
Elm City Brass & Rivet Co. (Brass), Plainville, Conn.
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)
Eureka Foundry Co. (Brass.), 1110 Richmond, Cincinnati, O.
Fischer Leaf Co., 1438 High, Louisville, Ky.
Gauger, John L. Co. (Wrought Iron), 22d & Wood, Phila., Pa.
Graf, Frank H. (Brass, Bronze & Black Iron), 322 7th av, New York
Hardware & Woodenware Mfg. Co. (Coal Claws, Fire Irons, Fire Sets, Pokers, Fire Iron Stands), 693 B'way, New York
Howes, S. M. Co. (Fire Sets, Basket Grates, Fireplace Screens, etc.), 44 Union, Boston, Mass.

JACKSON, EDWIN A. & BROS. (Andirons, Fenders, etc.), 50 Beekman, New York

JACKSON, WM. H. COMPANY (Fire Screens, Fenders, Fire Sets, etc., Brass & Iron), 29 E 17th (Union sq), New York, & 163 Michigan av, Baltimore, Md. (See adv. index, end of book)

Jackson's Mantel & Grate Works, 246 Front, New York

Janusch Mfg. Co. (Brass, Bronze, etc.), 496 E 134th, New York

Judd, H. L. Co. (Fenders, Andirons, etc.), 87 Chambers, New York

Knott & Harker Co., Beaver Falls, Pa.

Lloyd Mfg. Co. (Fire Screens & Spark Guards), Minneapolis, Minn.

McKenney & Waterbury, 181 Franklin, Boston, Mass.

Manhattan Brass Co. (Brass), 334 E 28th, N. Y.

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

Murdock-Shaw Co. (Brass), Boston, Mass.

Peck, Stow & Wilcox Co. (Brass, etc.) Southington, Conn.

Pittsburg Stove & Range Co. (Columbia & Peerless Grates, etc.), Pittsburg, Pa.

Rathbone & Panlot. (Open Fire Places Direct-Draft & Gas Grates), Grand Rapids, Mich.

Rostand Mfg. Co. (Full Line), New Haven, Conn.

Sharpless & Watts, 15th & Walnut, Phila., Pa.

Spinner, Wm. Heater Co. (Steel Mantels for Gas & Brass Fenders, etc.), Warren, Pa.

Tiffany Studios, 347 Madison av, New York

Troy Nickel Works (Jno. E. Galtley, prop'r) ("Alaska," Nickel, Antique Bronze, etc.), Albany, N. Y.

Waterbury Brass Goods Corporation (Brass), Waterbury, Conn.

WRIGHT WIRE CO. (Ornamental Wire Fenders & Spark Guards), Worcester, Mass. (See adv. index & branch offices, end of book)

*Fire Places (Brick)

FISKE & CO. (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg., New York. (See adv. index, end of book)

Hendricks' Commercial Register

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

AMERICAN CONCRETE COMPANY

GENERAL OFFICES
80 WILLIAM ST., NEW YORK

Fireproof Roofs of "Amconco" Tile on Light Steel Frames.

Fireproof Partitions of "Amconco" Hollow Tile, Ready for White Plaster Coat.

Fireproof Floors of "Amconco" Floor Units.

Fireproof Chimneys of "Amconco" Air Spaced Blocks.

Fire-Proof Constructors

(See Also Concrete Steel Construction, Reinforced)

A. B. Fireproofing Co., Schiller bldg, Chicago, Ill.
 Akron Fireproofing Construction Co., Akron, O.
AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)
 Bruner, P. M. Granitoid Co., 904 Olive, St. Louis, Mo.
 Cargill Mfg. Co., Buttles av, Columbus, O.
 Clinton Wire Cloth Co., Clinton, Mass.
 Columbian Concrete Steel Bar Co. ("Columbian" System) Pittsburg, Pa.
 Drehman Paving Co. (Concrete Floors, etc.), 2629 Parrish, Philadelphia, Pa.
 Eid, L. Concrete Steel Co., Central av, bet Findlay & Liberty, Cincinnati, O.
GENERAL FIREPROOFING CO., Youngstown, O., & 10 E 33d, New York. (See adv. index & branch offices, end of book)
 Gollick & Smith, 162 E 23d, New York
 Guastavino, R. Co., 949 B'way, New York
 Healy-Tibbits Construction Co., Hansford bldg, San Francisco, Cal.
 Kellogg Iron Works, Mutual Life bldg, Buffalo, N. Y.
 Keystone Fireproofing Co., Engineering Dept., 16 S Broad, Phila., Pa. Works: Chester, Penn.
 McCartney, R. G., 622 St. Nicholas av, New York
 Metropolitan Fire Proofing Co., 50 Church, New York
 National Concrete Construction Co., 140 W Main, Louisville, Ky.
 National Concrete Fire Proofing Co., William-son bldg, Cleveland, O.
 Newton Engineering Co. ("Kahn" System), Hathaway bldg, Milwaukee, Wis.
 Norman Fireproof Construction Co., 412 E 125th, New York
 Paige, Tom, Cuyahoga bldg, Cleveland, O.
ROEBLING CONSTRUCTION CO., Fuller bldg, B'way & 23d, New York. (See adv. index & branch offices, end of book)
 Sanitary Fire Proofing & Contracting Co., 105th & East River, New York
 Schratwieser Fire-Proof Construction Co., 426 3d av, Brooklyn, N. Y.
 Standard Concrete Steel Co., 415 E 31st, New York
TRUSSED CONCRETE STEEL CO., Trussed Concrete Bldg., Detroit, Mich. (See adv. index & branch offices, end of book)
 Vulcanite Paving Co. ("Vulcanite" System), Land Title bldg, Phila., Pa.
 Wight, W. N. & Co., 7 W 38th, New York

*Fire-Proof Elevator Casings

AMERICAN METAL DOOR CO., Jamestown, N. Y. (See adv. index, end of book)

Fire-Proof Floors & Partitions

A. B. Fireproofing Co., Schiller bldg, Chicago, Ill.
AMERICAN CONCRETE CO. (Concrete Floors & Partitions), 80 William, New York. (See adv. index, end of book)

American Concrete Steel Co. (Concrete Steel), Union bldg, Newark, N. J.

AMERICAN MASON SAFETY TREAD CO. ("Karbolith"), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

Bailey, Thos., 1086 St. Nicholas av, New York

BROWN HOISTING MACHINERY CO.

("Ferrolinclave"), 1345 St. Clair, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)

Buffalo Expanded Metal Co., D. S. Morgan bldg, Buffalo, N. Y.

Cargill Mfg. Co. ("International" System), Buttles av, Columbus, O.

Clinton Wire Cloth Co., Clinton, Mass.

Consolidated Expanded Metal Co.'s, Keenan bldg, Pittsburg, Pa.

Corrugated Bar Co., Nat'l Bank of Commerce bldg, St. Louis, Mo.

Detroit Fireproofing Tile Co. ("Gypsite"), Pittsburg, Pa.

Doehring Fire-Proof Construction Co., 1123 B'way, New York

Eastern Concrete Const. Co., Boston, Mass.

Expanded Metal Engineering Co., 225 5th av, New York

Expanded Metal Fireproofing Co. of Pittsburg, 541 Wood, Pittsburg, Pa.

FLEMING & CO., 253 B'way, New York. (See adv. index, end of book)

Gollick & Smith, 162 E 23d, New York

GENERAL FIREPROOFING CO., Youngstown, O. (See adv. index & branch offices, end of book)

Hayes, Geo. Co., 71 8th av, New York

Keystone Fireproofing Co., Engineering Dept., 16 S Broad, Phila., Pa. Works: Chester, Pa.

Laser Letzig Mfg. Co., 1313 N 16th, St. Louis, Mo.

MAURER, HENRY & SON (The "Phoenix"), 420 E 23d, New York; Penna bldg, Philadelphia, Pa. Works: Maurer, N. J. (See adv. inside front cover)

MERRITT & CO. (Floors & Partitions), Front & Arch, Camden, N. J. (See adv. index, end of book)

Metropolitan Fire-Proofing Co., 50 Church, New York

MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

National Concrete Fire-Proofing Co., New England bldg, Cleveland, O.

ROEBLING CONSTRUCTION CO., Fuller bldg, B'way & 23d, New York. (See adv. index & branch offices, end of book)

Sanitary Fire Proofing & Contracting Co. ("Ger-aords" Patent Fire Proof Blocks), 105th & East River, New York

Schratwieser Fire-Proof Construction Co., 426 3d av, Brooklyn, N. Y.

SMITH, F. P. WIRE & IRON WORKS., 100 Lake, Chicago, Ill. (See adv. index, end of book)

Southern Expanded Metal Co., Colorado bldg, Washington, D. C.

Standard Concrete Steel Co., 413 E 31st, New York

TRUSSED CONCRETE STEEL CO., Trussed Concrete Bldg., Detroit, Mich. (See adv. index & branch offices, end of book)

Voss, Fredk. (Wire Lath), 621 Austin av, Chicago, Ill.

Vulcanite Paving Co., Land Title bldg, Phila., Western Expanded Metal & Fireproofing Co., San Francisco, Cal.

White Fire Proof Construction Co., 162 W. 27th, New York

Fire-Proof Hollow Tile

A. B. Fireproofing Co., Schiller bldg, Chicago, Ill.

Akron Vitrified Clay Mfg. Co., Akron, O.
 American Clay Products Co., 138 Washington Chicago, Ill.

AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)

Carnegie Brick & Pottery Co., San Francisco, California

Chattanooga Sewer Pipe & Fire Brick Co., Chattanooga, Tenn.

Clark, N. & Sons, 17 Spear, San Francisco, Cal.

Denny-Renton Clay & Coal Co., Seattle, Wash.

Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.

Federal Clay Mfg. Co., 23d & B'way, New York

Gladding, McBean & Co., Crocker bldg, San Francisco, Cal. Works: Lincoln, Cal.

Illinois Terra Cotta Lumber Co., The Rookery, Chicago, Ill.

Laclede-Christy Clay Products Co., St. Louis, Mo.

Little Falls Fire Clay Co., Little Falls, Wash.

Los Angeles Pressed Brick Co., Los Angeles, California

MAURER, HENRY & SON, 420 E 23d, New York; Penna bldg, Philadelphia, Pa. Works: Maurer, N. J. (See adv. front inside cover)

NATIONAL FIRE PROOFING CO., Pittsburg, Pa., & Chicago, Ill. (See adv. index & branch offices, end of book)

New Jersey Co., 11 B'way, New York

New York Press Brick Co., Rochester, N. Y.

Orchard Knob Clay Works Co., Ironton, O.

Parker-Russell Mining & Mfg. Co., 417 Pine, St. Louis, Mo.

Penna. Fireproofing Co., St. Mary's, Pa.

Rochester Brick & Tile Mfg. Co., Powers blk, Rochester, N. Y.

Steiger Terra Cotta & Pottery Works, San Francisco, Cal.

Stevens' H. Sons Co., Macon, Ga.

Troy Fireproofing Co., Troy, N. Y.

Whiteacre Fireproofing Co., Waynesburg, O.

*Fire-Proof Porches

TAYLOR & DEAN, Penn av. & 25th, Pittsburg, Pa. (See adv. index, end of book)

Fire-Proof Porous Brick & Tile Mfrs.

(See Fire-Proofing, Porous Terra Cotta)

Fire-Proof Windows

(See Window Frame & Sash, Metallic)

Fire-Proof Wood Work

(See Fire-Proofing of Wood)

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NATIONAL FIRE PROOFING COMPANY

MANUFACTURERS OF

Terra Cotta Hollow Tile Fire=
proofing and all Kinds of
Hollow Building Tile

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Also Manufacturers Sewer Pipe

FACTORIES LOCATED NEAR ALL THE LARGE CITIES

We have fireproofed a large portion of America's
largest modern buildings. . . . Our experience
and ideas are on call to any Architect or Builder.

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NEW YORK, N. Y.—Fuller Building.
BOSTON, MASS.—840 Old South Building.
PHILADELPHIA, PA.—Land Title Bldg.
PITTSBURGH, PA.—Fulton Building.
CLEVELAND, O.—Cuyahoga Building.
CINCINNATI, O.—Union Trust Building.

CHICAGO, ILL.—Commercial Nat. Bank Bldg.
WASHINGTON, D. C.—Colorado Building.
MINNEAPOLIS, MINN.—Lumber Exchange.
CANTON, O.—City National Bank Building.
SAN FRANCISCO—Monadnock Building.
TORONTO, CAN.—Traders' Bank Bldg.

LONDON—27 Chancery Lane.

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A SPECIAL MATERIAL FOR EACH REQUIREMENT



HERRINGBONE TRUSSED BAR



SQUARE LUG BAR

EXPANDED METAL.

TRUSSIT FOR ROOFS.

WIRE FABRIC REINFORCEMENT

Metal Lath, Steel Studding, Corner Bead, See Adv. opposite Page 577. Allsteel Bank, Library and Public Building Equipment, See Adv. opposite Page 49. Office Furniture, Filing Devices Made of Steel, See Adv. Page 804. SEND FOR CATALOGUES.

THE GENERAL FIREPROOFING COMPANY

For Branch Office Addresses See Advertisers' Index, End of Book

YOUNGSTOWN, OHIO

Hendricks' Commercial Register

IS USED FOR

Purchasing Purposes

BY A GREATER VARIETY OF INDUSTRIES
THAN ANY OTHER PUBLICATION ISSUED

Fire-Proofing ("Bostwick" System)*BOSTWICK STEEL LATH CO., Niles, O.** (See adv. index, end of book)**Fire-Proofing Elevator Shafts**

(See Fire-Proof Floors & Partitions)

Fire-Proofing (Ferrolinclave Steel Concrete)*BROWN HOISTING MACHINERY CO.,** 1345 St. Clair, Cleveland, O., & 50 Church, New York. (See adv. index & branch offices, end of book)***Fire-Proofing ("Kahn") System****TRUSSED CONCRETE STEEL CO., Trussed Concrete Bldg.,** Detroit, Mich. (See adv. index & branch offices, end of book)***Fire-Proofing ("Kuhne's" System)****TRUSS METAL LATH CO., 147 4th av.,** New York. (See adv. index, end of book)***Fire-Proofing (Multiplex Steel Flooring)****BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)**Fire-Proofing of Wood****American Wood Fire-Proofing Co., 114 Liberty,** New York**ELECTRIC FIREPROOFING CO.,** 19th & East River, New York. (See adv. index, end of book)**Fireproofing Mfg. Co., 128 B'way,** New York**Price Fireproofing Co., Poughkeepsie,** N. Y.**Fire-Proofing of Wood (Electric System)****Electric Fireproofing Co., 19th & East River,** New York**Fire-Proofing (Porous Terra Cotta)****Chattanooga Sewer Pipe & Fire Brick Co.,** Chattanooga, Tenn.**Denny-Renton Clay & Coal Co., Seattle,** Wash.**Gladding, McBean & Co., Crocker bldg., San Francisco,** Cal.**Illinois Terra Cotta Lumber Co., The Rookery,** Chicago, Ill.**Los Angeles Pressed Brick Co., Los Angeles,** Cal.**MAURER, HENRY & SON, 420 E 23d** New York, & Penna bldg, Philadelphia, Pa.**Works, Maurer, N. J.** (See adv. Front Inside Cover)**NATIONAL FIRE PROOFING CO., Fulton** bldg, Pittsburgh, Pa., & Chicago, Ill. (See adv. index, end of book)**Parker & Russell Mining & Mfg. Co., St. Louis,** Mo.**Penna. Fireproofing Co., St. Mary, Pa.** Mo.**Whitmore Fireproofing Co., Waynesburg,** Pa.***Fire-Proofing ("Roebling" System)****ROEBLING CONSTRUCTION CO., Full-**ler bldg, B'way & 23d, New York. (See adv. index & branch offices, end of book)**Fire Sand****AMERICAN CONCRETE CO., 80 William,** New York. (See adv. index, end of book)**Berry, Jas. E., Woodbury, N. J.****Bloomfield Clay Co., Metuchen, N. J.****Garden City Sand Co. (Dealers), Chamber of Commerce bldg,** Chicago, Ill.**Gautier, J. H., & Co., Jersey City, N. J.****MAURER, HENRY & SON, 420 E 23d,** New York, & Penna bldg, Phila., Pa.**Works, Maurer, N. J.** (See adv. Front Inside Cover)**Northport Clay & Fire Sand Co., Northport,** L. I., N. Y.**Peekskill Fire Brick Works, Peekskill,** N. Y.**Presbrey Stove Lining Co., Taunton,** Mass.**Shepard, J. J., 1078 W 11th, N W,** Cleveland, Ohio**Tygart Fire Brick Co., Fullerton,** Ky.**Utica Fire Sand Co., Utica,** N. Y.**Valentine, M. D. & Bro. Co., Woodbridge,** N. J.***Fire Screens & Backs****JACKSON, WM. H. COMPANY, 29 E** 17th (Union sq), New York. (See adv. index, end of book)**Fire Sets (Brass & Iron)**

(See Fire Place Furnishings, Manufacturers)

Fire Sprinklers

(See Sprinklers, Automatic Fire)

Fish Line Mfrs.**Ashaway Line & Twine Mfg. Co. (Silk, Linen & Cotton),** Ashaway, R. I.**Mansfield, G. H. & Co., Canton,** Mass.**Martin's, E. J. Sons ("Kingfisher," Braided Silk),** Rockville, Conn.**Paton, Wm. (Ltd.), No. Grafton,** Mass.**Pawtucket Braided Line Co., Pawtucket,** R. I.**Fish Nets & Seines****American Net & Twine Co., Boston,** Mass.**Fowler Net & Twine Co., 107 S. 2d,** Phila., Pa.**Gloucester Net & Twine Co., Gloucester,** Mass.**Fish Plate Springs**

(See Lock Nuts)

Fittings (Acid Metal)**Eastwood Wire Mfg. Co., Belleville, N. J.****PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry.,** Pittsburgh, Pa. (See adv. index, end of book)**Fittings (Air Brake)****Crane Co. (Est. 1855), 519 S. Canal,** Chicago, Ill. (See adv. index & branch offices, end of book)**Dayton Malleable Iron Co. (Lever Guides, etc.),** Dayton, O.**Greager Mfg. Co. (For Water & Gas Works), 22d & Wash'n av.,** Phila., Pa.**Litchfield Foundry & Machine Co., Litchfield,** Ill.**New Jersey Car Spring & Rubber Co. (Washers, etc.),** Jersey City, N. J.**New York Air Brake Co. (Equipments), 165 B'way,** New York, & Fisher bldg, Chicago, Ill.**Pittsburg Malleable Iron Co., Pittsburg,** Pa.**WESTINGHOUSE AIR BRAKE CO., Pitts-**burg, Pa.**Fittings (Ammonia)****American Brake Shoe & Foundry Co., Mahwah,** N. J.**Arctic Ice Machine Co., Canton,** O.**Belfield, H. & Co., 435 N Broad,** Phila., Pa.**Braman, Dow & Co., 239 Causeway,** Boston, Mass.**Crane Co. (Est. 1855), 519 S. Canal,** Chicago, Ill. (See adv. index & branch offices, end of book)**Creamery Package Mfg. Co., 182 E. Kenzie,** Chicago, Ill.**Eastwood Wire Mfg. Co., Belleville,** N. J.**Flagg, Stanley G. & Co., 424 N 19th,** Phila., Pa.**Great Lakes Engineering Works (Semi-Steel),** Detroit, Mich.**Niebling, F. W. Co. (Ltd.), Norwood,** Cincinnati, O.**PITTSBURGH GAGE & SUPPLY CO.,** 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)**Riverside Iron Works Co., Kansas City,** Kan.**Tight Joint Co. ("Folly's" Patent), 306 E 47th,** New York**Triumph Ice Machine Co. (Steel), 610 Bay-**mill, Cincinnati, O.**VILTER MFG. CO., 1046 Clinton,** Milwaukee, Wis. (See adv. index, end of book)**York Mfg. Co. (Ltd.), York,** Pa.**Wolf, Fred W. Co., 141 Rees,** Chicago, Ill.**Fittings (Awning Frame)****Pancoast, Henry B. & Co., 243 S. 3d,** Phila., Pa.**Fittings (Bakers' Oven)****Robson, Chas. & Co., 8th & Washington av.,** Philadelphia, Pa.**Fittings (Brass Pipe)****Barrett Mfg. Co., Jas., Boston,** Mass.**Belfield, H. & Co., 435 N. Broad,** Phila., Pa.**Belknap Mfg. Co., Bridgeport,** Conn.**Best Mfg. Co., Pittsburg,** Pa.**Bridgman Bros. Co. (Special, etc.), 1422** Washington av, Phila., Pa.**Buckeye Iron & Brass Works, Dayton,** O.**Central Brass Works, Cincinnati,** O.**Chambers & Ainslee, Newark,** N. J.**CORNELL & UNDERHILL, 47 Beach,** New York. (See adv. index, end of book)**Crane Co. (Est. 1855), 519 S. Canal,** Chicago, Ill. (See adv. index & branch offices, end of book)**Crane Valve Co. (Elbows, Tees & Crosses, etc.),** Bridgeport, Conn.**Dalton-Ingersoll Mfg. Co., Boston,** Mass.**Darling Pump & Mfg. Co., Williamsport,** Pa.**Detroit Lubricator Co., Detroit,** Mich.**Detroit Sanitary Supply Co., Detroit,** Mich.**Eastwood Wire Mfg. Co., Belleville,** N. J.**Edwardsville Brass Co., Edwardsville,** Ill.**Fewless-Leen Brass & Iron Co., Cincinnati,** O.**Fleming, G. W., Co., Bradford,** Pa.**General Fire Extinguisher Co., Providence,** R. I.**Hamlin & Emery Brass Co., Boston,** Mass.**Harris, Arthur & Co., 44 N. Curtis,** Chicago, Ill.**Haydenville Co., Haydenville,** Mass.**Hoffman & Billings Mfg. Co., Milwaukee,** Wis.**Humphreys Mfg Co., Mansfield,** O.**Ideal Mfg. Co., Detroit,** Mich.**HUNGERFORD, W. T. BRASS & COPPER** Co., 497 Pearl, New York**Illinois Malleable Iron Co., 537 Deversee bldg,** Chicago, Ill.**Imperial Brass Mfg. Co., Chicago,** Ill.**Jarecki Mfg. Co., Erie,** Pa.**Kelly & Jones Co., Pittsburg,** Pa.

The Roebling System

FIRE-PROOFING AND METAL LATH**SEND FOR NEW ILLUSTRATED CATALOGUE****THE ROEBLING CONSTRUCTION CO.****—MAIN OFFICE:—****Fuller Bldg., B'way & 23d St. NEW YORK****BOSTON****PHILADELPHIA****BUFFALO****CHICAGO****SAN FRANCISCO**

Kinsey & Mahler Co., Peoria, Ill.
Leslie Co. (Inc.) (High Pressure Steam), Lynd.
Lunkenheuer Co., Cincinnati, O. Hurst, N. J.
McCambridge & Co., 315 N 20th, Phila., Pa.
McMANN & TAYLOR, 104 John, New
York. (See adv. index, end of book)
McDonald & Morrison Mfg. Co., Dubuque, Iowa.
McNab & Harlin Mfg. Co., 56 John, New York.
Mansfield Mfg. Co., Pittsburg, Pa.
Merris, Hugh, Cincinnati, O.
Milwaukee Brass Mfg. Co., Milwaukee, Wis.
Mott, J. L. Iron Works, 5th ave. & 17th st.
Mueller, H. Mfg. Co., Decatur, Ill. New York
Mullaney's, Jas. Sons, 141 E. 25th, New York.
New Britain Brass Co., New Britain, Conn.
Ohio Brass Co., Mansfield, O.

PITTSBURGH GAGE & SUPPLY CO.,
30th & Liberty av, Pittsburg, Pa. (See
adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burgh, Pa. (See adv. index, end of book)
Pittsburg Valve & Fittings Co., Pittsburg, Pa.
Pleuger & Henger Mfg. Co., St. Louis, Mo.
Powell, Wm., Co., Cincinnati, O.
Powhatan Brass & Iron Works, Charlestown, W.
Va.

Queen City Brass & Iron Works, Cincinnati, O.
Regester's Sons Co., Baltimore, Md.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
SHAW, BENJ. F. CO., Wilmington, Del.
(See adv. index, end of book)
Sherman, H. B. Mfg. Co., Battle Creek, Mich.
Speakman Supply & Pipe Co., Wilmington, Del.
Standard Sautitary Mfg. Co., Pittsburg, Pa.
Stebbins Mfg. Co., Springfield, Mass.
Thomas Brass & Iron Co., Waukegan, Ill.
Walworth Mfg. Co., 128 Federal, Boston, Mass.
Wolverine Brass Works, Grand Rapids, Mich.

Fittings (Brass Pipe Railing)

Belfield & Co., 435 N. Broad, Phila., Pa.
Crane Valve Co., Bridgeport, Conn.
Craue & Co., Chicago, Ill.
Devlin & Co., Philadelphia, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Jarecki Mfg. Co., Erie, Pa.
Jenkins Mfg. Co., Bloomfield, N. J.
Pittsburg Brass Mfg. Co., Pittsburg, Pa.

Fittings (Bronze)

Eastwood Wire Mfg. Co. (Also Brass), Belle-
ville, N. J.
Kaltenthaler, H. J., 230 Cherry, Phila., Pa.
Ohio Brass Co. ("Ohio"), Mansfield, O.
PITTSBURGH VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burgh, Pa. (See adv. index, end of book)
WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of
book)

Fittings (Car Heater)

CHICAGO CAR HEATING CO., Rail-
way Exchange Bldg., Chicago, Ill., & 170
B'way, New York. (See adv. index, end of
book)
Crane Co. (Est. 1855), 519 S. Canal, Chicago,
Ill. (See adv. index & branch offices, end of
book)
National Tube Co. (Cast, Malleable Brass),
Pittsburg, Pa.

Fittings (Cast Iron Pipe)

(Fittings, Pipe)

Fittings (Cast Iron, for Gas & Water Mains)

CENTRAL FOUNDRY CO., 37 Wall, New
York. (See adv. index, end of book)
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
McMANN & TAYLOR, 104 John, New
York. (See adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of
book)
YAGLE FOUNDRY & MACHINE CO.
(Ltd.), 400 32d, Pittsburg, Pa. (See adv.
index, end of book)

*Fittings (Cast Steel)

Crane Co. (Est. 1855), 519 S. Canal, Chicago,
Ill. (See adv. index & branch offices, end of
book)
Kaltenthaler, H. J., 230 Cherry, Phila., Pa.

Fittings (Conduit)

Fairmount Electric Mfg. Co. ("Bendicks,"
Weatherproof), 714 N 24th, Philadelphia,
Pa.

Fittings (Cross Over)

Fee & Mason, 81 Beekman, New York.
Flagg, Stauley G. & Co. (Malleable Iron), 19th
& Pa. av, Phila., Pa.
Grabler Mfg. Co., Cleveland, O.
Kaltenthaler, H. J., 230 Cherry, Phila., Pa.
National Tube Co. (Cast, Malleable & Brass),
Pittsburg, Pa.

Fittings (Drainage)

Central Brass Works ("Standard"), Kansas
City, Mo.
CENTRAL FOUNDRY CO. (Cast Iron), 37
Wall, New York. (See adv. index, end of
book)
Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Ill.
Crane Co. (Est. 1855), 519 S. Canal, Chicago,
Ill. (See adv. index & branch offices, end of
book)
Glenn Mfg. Co., St. Charles, Ill.
Kelly & Jones Co., Pittsburg, Pa.
McNab & Harlin Mfg. Co. (Brass & Iron, Black
& Galvanized), 56 John, New York, & Pat-
erson, N. J.
National Tube Co. (Cast & Malleable Iron),
Pittsburg, Pa.
Priest Brass Mfg. Co. ("Sieben" Combination),
Kansas City, Kan.
Wade Iron Sanitary Mfg. Co. ("Wade"), 42
E Harrison, Chicago, Ill.

Fittings (Electric Porcelain)

(See Porcelain Specialties, Electric & Mechan-
ical)

Fittings (Electrical)

Electro-Dynamic Co. (Water Tight), 5 Nassau,
New York
Martin El. Co. (Watertight Marine for Electrical
Work), 90 Verona, Brooklyn, N. Y.
Union Iron Works Co., San Francisco, Cal.
WORCESTER PRESSED STEEL CO.
(Stamped), Worcester, Mass. See adv. in-
dex, end of book)

Fittings (Ell)

Lavigne Mfg. Co., Detroit, Mich.
LUNKENHEIMER CO. (Brass), Gen-
eral Offices & Works, Beekman & Waverly,
Cincinnati, O. (See adv. index & branch of-
fices, end of book)

Fittings (Flanged)

American District Steam Co., Lockport, N. Y.
American Foundry & Mach. Co., Marietta, Ga.
AMERICAN SPIRAL PIPE WORKS
(Forged Steel Pipe Flanges), W. 14th & 48th
av, Chicago, Ill. (See adv. index & branch
offices, end of book)
Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
Bethlehem Foundry & Machine Co., Front,
South Bethlehem, Pa.
Caldwell, E. R. & Co. (For Steam), Bradford,
Pa.
Central Pipe Valve & Const. Co., Pittsburg,
Pa.
CORNELL & UNDERHILL, 47 Beach,
New York. (See adv. index, end of book)
Crane Co. (Est. 1855) (High, Medium or Low
Pressure), 519 S. Canal, Chicago, Ill. (See
adv. index & branch offices, end of book)
Dame & Townsend Co. (Standard Extra
Heavy), Cliff & Fulton, New York
Eastwood Wire Mfg. Co. (Bronze & Iron El-
bow, Tee, Cross, Nipple & Union, etc.),
Belleville, N. J.
General Fire Extinguisher Co. (Cast Iron),
Providence, R. I.
Kaltenthaler, H. J. (Cast Iron, High & Low
Pressure), 230 Cherry, Phila., Pa.
Kellogg, M. W. Co. 50 Church, New York
McMANN & TAYLOR, 104 John, New
York. (See adv. index, end of book)
McNab & Harlin Mfg. Co. (Standard & Extra
Heavy), 56 John, New York, & Paterson,
N. J.
Miller, Chas. & Son Co., Utica, N. Y.
National Tube Co. (Cast, Malleable Brass,
also Screwed), Pittsburg, Pa.
New Bedford Boiler & Machine Co., New Bed-
ford, Mass.
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
PITTSBURGH GAGE & SUPPLY CO.,
30th & Liberty av, Pittsburg, Pa. (See
adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burgh, Pa. (See adv. index, end of book)
SHAW, BENJ. F. CO., Wilmington, Del.
(See adv. index, end of book)
Walworth Mfg. Co., 132 Federal, Boston, Mass.
WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of
book)

YAGLE FOUNDRY & MACHINE CO.
(Ltd.) (Cast Iron for Gas & Water), 32d &
A. V. Ry., Pittsburg, Pa. (See adv. index,
end of book)

Fittings (Gas Fixture)

Barker, Jos. S., 168 Centre, New York
Cleveland Gas & Electric Fixture Co., 940
Prospect av, S E, Cleveland, O.
Flagg, Stanley G. & Co., 424 N 19th, Phila.,
Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Horn & Brannen Mfg. Co., 427 N Broad,
Philadelphia, Pa.
Kraushaar Brass Mfg. Co. (Chased Brass,
etc.), St. Louis, Mo.
Shapiro & Aronson, 67 Centre, New York
Utica Fixture Co., Utica, N. Y.
Vosburgh, W. C. Mfg. Co., 93 Underhill av,
Brooklyn, N. Y.
Williamson, R. Co., 88 W Washington, Chi-
cago, Ill.

*Fittings (Gas Line)

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burgh, Pa. (See adv. index, end of book)
WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of
book)

X Fittings (Green House)

CENTRAL FOUNDRY CO. (Cast Iron), 37
Wall, New York. (See adv. index, end of
book)
Coldwell-Wilcox Co. (Cast Iron), Newburgh,
N. Y.
Crane Co. (Est. 1855), 519 S. Canal, Chicago,
Ill. (See adv. index & branch offices, end of
book)
Glenn Mfg. Co., St. Charles, Ill.

*Fittings (High Pressure)

CORNELL & UNDERHILL, 47 Beach,
New York. (See adv. index, end of book)
McMANN & TAYLOR, 104 John, New
York. (See adv. index, end of book)
OIL WELL SUPPLY CO. (Cast Iron),
215 Water, Pittsburg, Pa. (See adv. index,
end of book)
SHAW, BENJ. F. CO., Wilmington, Del.
(See adv. index, end of book)
WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of
book)

Fittings (Hydraulic)

AMERICAN SPIRAL PIPE WORKS,
W 14th & 48th av, Chicago, Ill. (See adv.
index & branch offices, end of book)
Birdsboro Steel Foundry & Machine Co. (Cast
Steel), Birdsboro, Pa.
Eastwood Wire Mfg. Co. (Bronze & Iron, Elbow,
Tree, Cross, Nipple & Union, etc.), Belle-
ville, N. J.
ELMES, CHAS. F. ENGINEERING
Works, Fulton & Sangamon, Chicago, Ill.
(See adv. index, end of book)
French Oil Mill Machinery Co., Piqua, O.
McCambridge & Co. (Brass), 375 N 20th,
Phila., Pa.
McNab & Harlin Mfg. Co., 56 John, New York.
Mesta Machine Co., Lewis bldg, Pittsburg,
Pa.
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY &
Construction Co., 26th & A. V. Ry., Pitts-
burgh, Pa. (See adv. index, end of book)
Tight Joint Co. (Folly's Patent), 306 E 47th,
New York
WATSON-STILLMAN CO., 50 Church, New
York. (See adv. index, end of book)
WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of
book)

Fittings (Iron Railing)

Belfield, H. E. & Co., 435 N. Broad, Phila. Pa.
Crane Co. (Est. 1855), 519 S. Canal, Chicago,
Ill. (See adv. index, and branch offices, end
of book)

Devlin, Thos., Mfg. Co. (Adjustable, Malleable Iron), Lehigh ave. & 3d, Phila., Pa.
 Illinois Malleable Iron Co., 537 Deversey, Chicago, Ill.
 Jarocki Mfg. Co., Erie, Pa.
 Kelly & Jones Co., Pittsburg, Pa.
 McNab & Harlau Mfg. Co., 56 John, N. Y.
 National Tube Co. (Cast & Malleable Iron), Pittsburg, Pa.
 Pancoast, Henry B. & Co. (Iron Pipe, Malleable & Cast Iron & Brass), 243 S 2d, Phila., Pa.

Fittings (Lead Lined Pipe)

Lead Lined Iron Pipe Co. (Brass & Iron), Wakefield, Mass.
 Non-Corrosive Valve & Pipe Co., 25 W 1st, Boston, Mass.

Fittings (Mast)

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

Fittings (Pipe)

(See also Cast Iron Soil Pipe & Fittings; also Fittings, Various Kinds; also Unions)

ABENDROTH & ROOT MFG. CO. (Cast Iron Flanged), Newburgh, N. Y. (See adv. index & branch offices, end of book)

American District Steam Co., Lockport, N. Y.

American Foundry & Construction Co., Pittsburg, Pa.

American Radiator Co. ("O. S." Distributors for Steam & Water), General Office, 282 Michigan av., Chicago, Ill.

AMERICAN SPIRAL PIPE WORKS (Large Cast Iron), W 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)

Anti-Bursting Pipe Co., Pittsburg, Pa.

Belfield, H. & Co. (Malleable & Cast Iron), 435 N. Broad, Philadelphia, Pa.

Builders' Iron Foundry (Cast Iron), Providence, R. I.

Campbell Mfg. Co. (Cast Iron), Gadsden, Ala.

Carroll Iron Works (Malleable Iron), 779 Carroll av., Chicago, Ill.

CENTRAL FOUNDRY CO. (Cast Iron), 37 Wall, New York. (See adv. index, end of book)

Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.

Coldwell, Wilcox Co. ("Wilcox"), Newburgh, N. Y.

Columbus Brass Co. ("Abbott") Columbus, Ohio.

CORNELL & UNDERHILL, 47 Beach, New York. (See adv. index, end of book)

Crane Co. (Est. 1855). (Malleable & Cast Iron. Screwed or Flanged), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co. (Malleable & Cast Iron Pipe), Bridgeport, Conn.

Dame & Townsend Co. (Cast & Malleable Iron), Cliff & Fulton, New York

Darling Pump & Mfg. Co. (Cast Iron), Williamsport, Pa.

Devlin, Thos. & Co. (Malleable Iron), 3d & Lehigh av., Phila., Pa.

Eastwood Wire Mfg. Co. (Cast Iron), Belleville, N. J.

Flagg, Stanley G. & Co. ("Keystone") Malleable Iron), 424 N. 19th, Philadelphia, Pa.

Ford & Kendig Co. (Malleable & Cast Iron), 432 Callowhill, Philadelphia, Pa.

Fort Pitt Malleable & Gray Iron Co. (Malleable & Cast Iron), Pittsburg, Pa.

Gille Engine & Machine Co. (Cast Iron), Tonawanda, N. Y.

Glam Organ Pipe & Foundry Co. (Cast Iron), Lynchburg, Va.

Glen Mfg. Co. (Grey Iron), St. Charles, Ill.

Grabler Mfg. Co. (Malleable Iron), Cleveland, O.

Hancock Mfg. Co., Charlotte, Mich.

Hoffmann, B., Mfg. Co. (Cast Iron), 257 6th Milwaukee, Wls.

Howe Mfg. Co. ("Crescent") Louisville, Ky.

Illinois Malleable Iron Co. ("Eureka," "Inuco," Malleable & Cast Iron), 515 Diversey boul., Chicago, Ill.

Jarecki Mfg. Co. (Malleable & Cast Iron), Erie, Pa.

Kelly & Jones Co. (Malleable & Cast Iron), Pittsburg, Pa.; Works, Greensburg, Pa.

Kroeschell Bros. Co. (Cast Iron), 55 Erie, Chicago, Ill.

Kuhns Bros., Dayton, O.

Litchfield Foundry & Machine Co. (Cast Iron), Litchfield, Ill.

Lumsden O. Van Stone Co. ("Van Stone") Boston, Mass.

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McMANN & TAYLOR (Cast & Malleable Iron, 104 John, New York. (See adv. index, end of book)

McNab & Harlin Mfg. Co. (Cast Iron), 56 John, New York

Malleable Iron Fittings Co. (Malleable Iron), Branford, Conn.

Morse Iron Works (Cast & Malleable Iron), Erie, Pa.

Mott, J. L. Iron Works, 118 5th av., New York

National Tube Co. (Cast, Malleable, Brass), Pittsburg, Pa.

Newbury, J. G., Coxsack, N. Y.

Newbury, Jay H. (Cast Iron), Goshen, N. Y.

Non-Corrosive Valve & Pipe Co., 25 W 1st, Boston, Mass.

OIL WELL SUPPLY CO. (Malleable & Cast Iron), 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Pancoast, Henry B., & Co. (Malleable Iron), 245 S 3d, Philadelphia, Pa.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburg, Pa. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Pittsburg Valve & Fittings Co., Pittsburg, Pa.

SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

SIMMONS, JOHN CO. (Cast Iron), 106 Centre, New York. (See adv. index, end of book)

South Park Foundry & Machine Co. (Cast Iron), St. Paul, Minn.

Stockham Pipe & Fittings Co. (Cast Iron), Birmingham, Ala.

Tamaqua Mfg. Co. (Malleable Iron), Tamaqua, Pa.

Tight Joint Co. ("Folly's" Never Leak Tight Joint), 306 E 47th, New York

Vanderman Plumbing & Heating Co., Willmantic, Conn.

Walworth Mfg. Co. (Malleable & Cast Iron), 132 Federal, Boston, Mass.

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Fittings (Railing)

(See Fittings, Brass Railing; also Fittings, Iron Railing)

Fittings (Railway)

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.

Flagg, Stanley G. & Co. (Malleable Iron), 19th & Penna av., Phila., Pa.

National Tube Co. (Cast, Malleable, Brass), Pittsburg, Pa.

*Fittings (Semi-Steel)

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Fittings (Soil Pipe)

(See Cast Iron Soil Pipe & Fittings Manufacturers)

Fittings (Steam Pipe)

(See Fittings, Pipe)

Fittings (Tight Joint)

Tight Joint Co. (Folly's, for Steam, Hydraulic, Ammonia, Compressed Air, etc.), 306 E 47th, New York

Fittings (Y)

LUNKENHEIMER CO., Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Ohio Brass Co. ("Ohio" Bronze) Mansfield, O.

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Fixtures (Bank, Office & Store)

(Cabinet Wood-Work)

Alexandria Mfg. Co., Alexandria, Minn.

ANDREWS, A. H. CO., Chicago, Ill. (See adv. index, end of book)

Bush, Jas. S., 239 B'way, New York

Carter, S. C. & S. Co., Keokuk, Ia.

Cleveland Store Fixture Co., Cleveland, O.

Cobb, Geo. W., Jr., 47 Liberty, New York

Cole Mfg. Co., Memphis, Tenn.

Columbia Lumber & Mfg. Co., Columbia, S. C.

Derby Desk Co., Boston, Mass.

De Wolf Furniture, Garnett, Kans.

Ooten-Dunton Desk Co., Boston, Mass.

Ehlrich, H. & Sons., St. Joseph, Mo.

Enterprise Mfg. Co., Tiffin, O.

Fielder & Allen Mfg. Co., Atlanta, Ga.

Fridman Seating Co., New Richmond, O.

Globe-Wernicke Co., Cincinnati, O.

Himmel, M. L. & Son, 107 N Frederick, Baltimore, Md.

Johauneson Mfg. Co., Erie, Pa.

Johuson, Albert & Co., Boston, Mass.

Kansas City Furniture & Bedding Manufactory, Kansas City, Mo.

McLean, W. B. Mfg. Co., Pittsburg, Pa.

Macey Co. (Desks, Chairs, etc.), 343 B'way, New York & Grand Rapids, Mich.

Mansfield, Robert & Son, Louisville, Ky.

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

Marysville Cabinet Co., Marysville, O.

Melchoir Bros. Furniture Co., 8 Dayton, Chicago, Ill.

Merle & Heaney Mfg. Co., 88 Washington, Chicago, Ill.

Moline Furniture Works, Moline, Ill.

Moore, Geo. & Sons, Nashville, Tenn.

Moore Mfg. Co., Springfield, Mo.

Morgan Lumber Co., Charleston, W. Va.

Muskegon Cabinet Co., Muskegon, Mich.

Northwestern Furniture Co., Milwaukee, Wis.

Ohmer's, M. Sous Co., Dayton, O.

Phoenix Furniture Co., Eau Claire, Wis.

Reliance Gauge Column Co. (Seamless & Solderless, etc.), Cleveland, O.

Rochester Show Case Works, Rochester, N. Y.

Segale Mfg. Co., 68 E Spring, Columbus, O.

Schwarzwaelder, L. A., Chichester, N. Y.

Shaw, A. B. & E. L., East Cambridge, Mass.

Shoemaker, Jos. L. & Co., 926 Arch, Phila., Pa.

Sierer, H., Chambersburg, Pa.

Sjostron, John E., Philadelphia, Pa.

Southern Seating & Cabinet Co., Jackson, Tenn.

SUN MFG. CO., Columbus, O. (See adv. index, end of book)

Toledo Desk & Fixture Co., Toledo, O.

Ward, M. W. & Son, Jamestown, N. Y.

Weary & Alford, 164 Dearborn, Chicago, Ill.

Western Paper & Mfg. Co., Dayton, O.

Williams & Hunting Co., Cedar Rapids, Ia.

Winter, M. Lumber Co., Sheboygan, Wis.

Wood, Dickerson & Putnam, Birmingham, Ala.

Yawman & Erbe Mfg. Co., Rochester, N. Y.

Hendricks' Commercial Register

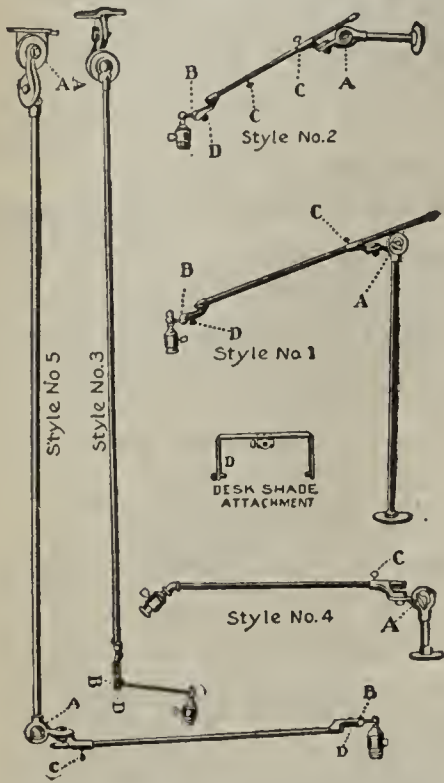
is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

*Fixtures (Electric Adjustable Wall & Ceiling)

MORSE, FRANK W. ("Morse"), 516
Atlantic av, Boston, Mass. (See adv. index, end of book)

MORSE Adjustable Electric Fixtures

FOR MILLS, FACTORIES, ETC.



Are the Strongest, Simplest, Most Adjustable and lowest in price of any made, and are approved by National Board of Underwriters.

SEND FOR PRICE LIST

FRANK W. MORSE

512 Atlantic Ave., BOSTON, MASS.

*Fixtures (Opal Cigar Store)

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

Flag Mfrs.

American Flag Mfg. Co., Easton, Pa.
Channon, H. Co., 32 Market, Chicago, Ill.
De Grauw, Aymar & Co., 34 South, New York
National Flag Co., Cincinnati, O.
United States Flag Co., Cincinnati, O.

Flag Poles (Iron)

Greenlie, Wyatt & Co., 499 Water, N. Y.
JONES, THOS. W. (Also Fittings), 22
Burling sl, New York. (See adv. index, end of book)
Nlmmo Fence & Wire Works Co., 305 E 14th, Cincinnati, O.

Flag Poles (Tubular)

National Tube Co., Pittsburg, Pa.

Flags (Railway Signal, Etc.)

American Flag Mfg. Co., Easton, Pa.
CARPENTER, GEO. B. & CO. (All Kinds & Descriptions), 202 S Water, Chicago, Ill. (See adv. index, end of book)
Handlan-Buck Mfg. Co. ("Prahm" & "Lan-lus" Metallic, Also Bunting), 212 N. 3d, St. Louis, Mo.
Patton, R. J. & Co., Cincinnati, O.

Flanged Flue Holes, Heads or Plates

(See Boiler Heads, Flanged & Dished)

*Flanges (Bibb)

McRAE & ROBERTS CO., 227 Campbell
av, Detroit, Mich. (See adv. index, end of book)

*Flanges (Brass)

VOELKNER & HARRY MFG. CO., 125
Woodbridge W, Detroit, Mich. (See adv. index, end of book)

Flanges (Cast & Malleable Iron)

American Foundry & Mch. Co., Marietta, Ga.
AMERICAN SPIRAL PIPE WORKS,
W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
General Fire Extinguisher Co. (Cast Iron only), Providence, R. I.
Kaltenthaler, H. J. (Gray & Gun Iron, Cast Steel & Bronze), 230 Cherry, Phila., Pa.
National Tube Co. (Also Extra Heavy Brass), Pittsburg, Pa.
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Flanges (Companion)

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Kaltenthaler, H. J., 230 Cherry, Phila., Pa.
National Tube Co., Pittsburg, Pa.

Flanges (Floor & Ceiling)

Glenn Mfg. Co. (Tapped), St. Charles, Ill.
Grabler Mfg. Co., Cleveland, O.
Pittsburg Brass Mfg. Co. (Brass Closet Floor), Penn av & 32d, Pittsburg, Pa.
VOELKNER & HARRY MFG. CO., Detroit, Mich. (See adv. index, end of book)
WORCESTER PRESSED STEEL CO.
(Solid & Split), Worcester, Mass. (See adv. index, end of book)

Flanges (Forged Steel Pipe)

Railway Steel Spring Co. (For Weldless Forged & Rolled Steel), 30 Church, New York
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

*Flanges (Hub)

AMERICAN SPIRAL PIPE WORKS
(Heavy Forged & Rolled Steel), W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of book)

Flanges (Pipe)

(See also Fittings, Flanged & Fittings, Pipe)
AMERICAN SPIRAL PIPE WORKS,
W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
CORNELL & UNDERHILL, 47 Beach,
New York. (See adv. index, end of book)
Dart, E. M. Mfg. Co., Providence, R. I.
McMANN & TAYLOR, 104 John, New
York. (See adv. index, end of book)
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

*Flanges (Pipe, Forged Steel)

AMERICAN SPIRAL PIPE WORKS,
W. 14th and 48th ave., Chicago, Ill. (See adv. index & branch offices, end of book)

Flanges (Pressed Steel Pipe)

Central Iron & Steel Co., Harrisburg, Pa.
Glasgow Iron Co., Pottstown, Pa.
Lukens Iron & Steel Co., Coatesville, Pa.
PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)
Worth Bros. Co., Coatesville, Pa.

*Flanges (Rolled Steel Pipe)

AMERICAN SPIRAL PIPE WORKS,
W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Flanges (Roof)

Acme Mfg. Co. ("Acme"), Somerville, Mass.
Davis Mfg. Co. ("Watson"), Nashua, N. H.
Hessler Co. ("McGuire," "Star" Adjustable), Syracuse, N. Y.
Success Mfg. Co., Gloucester, Mass.

Flanges (Snow)

Ohio Brass Co., Mansfield, O.
Quincy-Manchester-Sargent Co. ("Q. & C." Priest), Plainfield, N. J.

*Flanges (Soft Weldless Steel)

AMERICAN SPIRAL PIPE WORKS,
W. 14th and 48th ave., Chicago, Ill. (See adv. index & branch offices, end of book)

Flanges (Spun Brass)

General Fire Extinguisher Co., Providence, R. I.

Flanges (Welded)

Ball & Wood Co. ("Ballwood," up to 5000 lbs. Pressure), Elizabeth, N. J.
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Flashers (Electric Sign)

A. & W. Electric Sign Co., Cleveland, O.
Advertising Mirrorgraph Co. ("Thermo-Blink"), Brooklyn, N. Y.
American Electric Sign Co., Boston, Mass.
Bissell, F. Co., Toledo, O.
Campbell Electric Co., Lynn, Mass.
Electric Motor & Equipment Co., Newark, N. J.
Electro-Ad Co. ("Skedoodle"), Detroit, Mich.
Emerson Electric Mfg. Co., St. Louis, Mo.
Glaze-Morris Mfg. Co. ("Jem"), Columbus, O.
Haller Sign Works, 319 S Clinton Chicago, Ill.
Houillon, Edw., Cincinnati, O.
Palmer Electrical Co., Boston, Mass.
Reynolds-Dull Flasher Co. ("Dull's"), 152 5th av, Chicago, Ill.
Reynolds Electric Flasher Mfg. Co. ("New Reco"), 191 5th av, Chicago, Ill.
Ryan Construction Co., Indianapolis, Ind.
Universal Mfg. Co., 206 Illinois, Chicago, Ill.

Flashlights (Electric Lamp & Lantern)

American Electric Novelty & Mfg. Co. ("Ever Ready"), 308 Hudson, New York
American Endoscopic Co. ("Little Rhody"), Providence, R. I.
Eastern Carbon Works, West Side av & Central St. R., Jersey City, N. J.
Empire State Dry Battery Co., 55 Dey, New York
Franco-American Elec. Novelty Co., 111 Chambers, New York
Jaeger Miniature Lamp Mfg. Co. (Tantalum), 134 Bible House, New York
Manufacturers & Inventors Elec. Co. ("Cats Eye"), 84 Nassau, New York
Meyrowitz, E. B. ("Firefly"), 104 E 23d, New York
Mystic Elec. Gas Lighter Co., 119 Bible House, New York
Portable Elec. Safety Light Co. ("Hubbell"), Newark, N. J.
Roche, Wm. ("New Standard"), Jersey City, N. J.
Standard Sheet Metal Co. ("Rayflex" Flash Light), Passaic, N. J.
Strobel & Wilkens Co. ("Yankce"), 591 B'way, New York
Tardie, E. J., 240 6th av, New York
Universal Novelty Co. ("Eclipse," "Milwaukee"), 163 W 20th, New York
Vesta Accumulator Co., 1336 Michigan, Chicago, Ill.
Voltamp Electric Mfg. Co., Baltimore, Md.
Wilhelm, Henry Battery Co., 70 Frost, Brooklyn, N. Y.
Wolff, Albert & Co., 45 Vesey, New York

***Flash Pin Patterns**

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

***Flash Pins**

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

Flasks (Molders')

Adams Co. (Adams), Dubuque, Iowa
Arcade Mfg. Co. ("Arcade" Snap), Freeport, Ill.
Barnett, Oscar Foundry Co. ("Barnett" Brass
Molders & "New Diamond" Snap), Newark,
N. J.

Berkshire Mfg. Co. (Aluminum Snap), Cleve-
land, O.

Brass Founders' Supply Co. (For Brass Fdrs.,
Ribbed, etc.), Newark, N. J.

Diamond Clamp & Flask Co. ("Diamond"
Snap), Richmond, Ind.

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

Jurack, Chas. Pattern & Foundry Supply Mfg.
Co., Milwaukee, Wis.

Macphail Flask & Machine Co. ("Macphail"
Steel), 334 Dearborn, Chicago, Ill.

Middleditch, Benj., Detroit, Mich.

NORTHERN ENGINEERING WORKS,
Detroit, Mich. (See adv. index, end of book)

Obermayer, S. Co., 647 Evans, Cincinnati, O.

OSBORN MFG. CO., 5401 Hamilton
av, N. E., Cleveland, O. (See adv. index,
end of book)

Perkins, B. F. & Son, Boutall's, Holyoke, Mass.

Racine Engine & Machine Co. ("Racine" Snap),
Racine, Wis.

REEVES BROS. CO., Alliance, O.
(See adv. index & branch offices, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO.
(Snap), 1846 Scranton rd, N W, Cleveland,
O. (See adv. index, end of book)

Smith & Caffrey Co. ("New Eureka" Snap),
Syracuse, N. Y.

Stearns, E. C. & Co. ("Stearns" Snap),
Syracuse, N. Y.

Sterling Wheelbarrow Co. (Sheet Steel), Mil-
waukee, Wis.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

Flax Fibre Products

Union Fibre Co., Winona, Minn.

***Flax Swabs**

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

Flint

Eureka Flint & Spar Co., Trenton, N. J.

Hartford County Flint Co., Conowingo, Md.

Maryland Silicate Mills, Baltimore, Md.

York Chemical Works (Also Crushed), York,
Pa.

***Flint Miners**

GUILFORD & WALTERSVILLE
Granite Co. (Rough & Ground), 3 E Lex-
ington, Baltimore, Md. (See adv. index &
branch offices, end of book)

PETERSBURG GRANITE CO. (Rough
or Ground), 3 E Lexington, Baltimore, Md.
(See adv. index & branch offices, end of book)

Flint Pebbles & Flint Linings

Billings & Co., 86 Washington, Chicago, Ill.

Buebendorf Bros., Produce Ex., New York

Charles, J. M., 59 Pearl, New York

Delarue, Robert & Co., 132 Front, New York

McGlincey, John D. & Co. (Pebbles for Cement
Mfrs. a Specialty), 21 Fulton, New York

Smith, F. L. & Co., 50 Church, New York

Voigt, B. (French & Danish), 132 Front, New
York

Floats (Carbureter)

Goodwin & Kintz Co. (Brass or Copper), Win-
sted, Conn.

McCord & Co., Old Colony bldg, Chicago, Ill.

Turner Brass Works, Sycamore, Ill.

Floats (Car & Grain)

American Car & Foundry Co. (Steel or Wood-
en), 915 Olive, St. Louis, Mo., & 165
Broadway, New York

Floats (Copper)

Bay State Metal Works, Cambridge, Mass.

Blessing, C. A., 516 Montgomery av, Philadel-
phia, Pa.

Boekel, Wm. & Co., 518 Vine, Philadelphia, Pa.

Boston Brass Co., 36 Oliver, Boston, Mass.

Briggs, William ("Dirigo" Solderless), 100
Schmerhorn, Brooklyn, N. Y.

Carr, J. H. & Co., 7 Sherman, Chsn., Boston,
Mass.

Cleveland Faucet Co., 25 Frankfort, Cleve-
land, O.

Diamond Mfg. Co., Detroit, Mich.

Douglas, Jno. Co., 900 Poplar, Cincinnati, O.

Haydenville Co., Haydenville, Mass.

Hercules Float Works (Seamless), Springfield,
Mass.

Ireland & Matthews Mfg. Co. (For Tanks), De-
troit, Mich.

Miller, Hubbard Mfg. Co., Sturgis, Mich.

Naugatuck Mfg. Co. (Seamless), Naugatuck,
Nelson, N. O. Mfg. Co., St. Louis, Mo. Conn.

Page, Wm. E., E 166th & Walton av, New York

Pfau Mfg. Co., 936 Reading Rd, Cincinnati, O.

Ronalds & Johnson Co., 54 Cliff, New York

Reliance Gauge Column Co. (Solderless), 70 E
Prospect, Cleveland, O.

Solderless Copper Float Co. ("Dirigo" Solder-
less), 44 Withers, Brooklyn, N. Y.

Smith & Pomeroy, Kalamazoo, Mich.

Steeger, Henry, 143 E 31st, New York

Trageser, Jno., Steam Copper Works, 447 W
26th, New York

Union Brass & Metal Co., St. Paul, Minn.

Victor Mfg. Co., Concord, N. H.

Watson & McDaniel (For Steam Traps), 146 N
7th, Philadelphia, Pa.

WILSON, F. CORTEZ & CO. (also
Galvanized), 239 Lake, Chicago, Ill. (See
adv. index, end of book)

Floats (Crocery)

Bellmark Pottery Co., Trenton, N. J.

Great Western Pottery Co., Kokomo, Ind.

Maddock, Jno. & Son, Trenton, N. J.

Standard Sanitary Pottery Co., Elizabeth, N. J.

Trenton Potteries, Trenton, N. J.

Floats (Glass)

Burr, John M., 1939 Fulton, Brooklyn, N. Y.

Heap, Wm. & Sons, Grand Haven, Mich.

Jones, O. H. ("Capitol City," No Solder),
Hartford, Conn.

Floats (Life)

(See Life Rafts)

Floor Cleavers & Polishers

(See Floor Surfacing Machines)

Floor Coverings

Detroit Woodoleum Co., Detroit, Mich.

Floor Dressing

(See Floor Oils, Dust Absorbing)

Floor Finish

Acme White Lead & Color Works, Detroit,
Mich.

Atlantic Drier Co., Drexel bldg, Philadelphia,
Pa.

BINSWANGER, B. & CO. ("Zanzibolio"),
115 N 4th, Philadelphia, Pa.

Binswanger, B. & Co. ("Zanzibolio"), 115 N
4th, Phila., Pa.

Bowers, U. R. & Sons ("Afro-Lac"), Los An-
geles, Cal.

Bridgeport Wood Finishing Co., New Milford,
Conn.

Butcher Polish Co., 356 Atlantic av, Boston,
Mass.

Chicago Varnish Co., 41 Dearborn av, Chicago,
Ill.

Chicago Wood Finishing Co., 259 Elston av,
Chicago, Ill.

Cleveland Varnish Co. ("Permanere"), Cleve-
land, O.

Floor-Shine Co. ("Floor-Shine" Enamel Col-
ors), St. Louis, Mo.

Gilman, Chas. H. ("Drescote"), 103 Merri-
mac, Boston, Mass.

Glidden Varnish Co. ("Jap-A-Lac"), Rockefeller
bldg, Cleveland, O.

Hanna Paint Mfg. Co ("Lustro"), Columbus,
Ohio

Johnson, S. C. & Son ("Johnson's" Kleen
Floor), Racine, Wis.

Lilly Varnish Co. (Parquetry Floor Preserva-
tive), Indianapolis, Ind.

Nice, Eugene E. ("Agate"), 272 S 2d, Phila-
delphia, Pa.

Parker Mfg. Co., 18 Hoosick, Troy, N. Y.

Patterson-Sargent Co. ("China-Lac"), Cleve-
land, O.

Pratt & Lambert, Buffalo, N. Y., & 176 Ful-
ton, New York

Standard Varnish Works (Gutta Percha &
Flatline), 29 B'way, New York

TRUSSED CONCRETE STEEL CO., Trussed
Concrete Bldg., Detroit, Mich. (See adv.
index & branch offices, end of book)

Vilas Bros. (Floorum Varnish), 227 5th av,
Chicago, Ill.

Wadsworth-Howland Co., Chicago, Ill.

Wilson Co. ("Wilson" Liquid), 18 B'way, New
York; Works: Long Island City, N. Y.

WOOD-MOSAIC FLOORING & LUM-
ber Co.; Main Office & Factory: Rochester,
N. Y. (See adv. index & branch offices, end
of book)

***Floor Finish (Parquet-Lac)**

INTERIOR HARDWOOD CO., Indianap-
olis, Ind. (See adv. index, end of book)

Floor Lights

(See Vault & Sidewalk Lights, Plain & Pris-
matic)

Floor Oils (Dust Absorbing)

American Dust Absorbing Floor Oil Co., 181
Lafayette, New York

Bird, J. A. & W. & Co. ("The Globe"), 34 In-
dia, Boston, Mass.

Glidden Varnish Co. ("Glidden's" Waterproof
for Concrete & Cement Floors), Rockefel-
ler bldg, Cleveland, O.

INDIAN REFINING CO., Cincinnati, O.
(See adv. index, end of book)

Keyes, S. P., 149 Congress, Boston, Mass.

Lewis, Samuel ("Alpine Wax Oil"), 5 Front,
New York

Meyer, L. J., Oil & Mfg. Co. ("Gold Seal"),
135 Lake, Chicago, Ill.

New England Dustalayer Co., 620 Atlantic av,
Boston, Mass.

Sonneborn, L. Sons (Inc.), ("Amalia"), 262
Pearl, New York

Standard Oil Co. ("Standard"), 555 W 25th
Winn, Wm. R., 143 Maiden la, New York

Floor Plates (Wrought Steel)

(See Plates, Floor, Iron & Steel)

Floor Polish (Hard Wax)

Acme White Lead & Color Works (Colonial),
Detroit, Mich.

Bird, J. A. & W. & Co., 34 India, Boston, Mass.

Bridgeport Wood Finishing Co., New Milford,
Conn.

Butcher Polish Co., 356 Atlantic av, Boston,
Mass.

Chicago Varnish Co., 855 Elston av., Chicago,
Ill.

Great Western Oil Co., Cleveland, O.

THE INTERIOR HARDWOOD CO**MANUFACTURERS INDIANAPOLIS, IND.**

(See adv. index, end of book)

Herr, John Floor Co., 2110 Olive, St. Louis,
Mo.

Johnson, S. C. & Son Racine, Wis.

Lowell Polish Co., Lowell, Mass.

Onward Mfg. Co. ("Old Scotch"), Menasha,
Wis.

Sherwin-Williams Co., Cleveland, O.

Smith, John A. (The Nonpareil), 456 S. B'way,
Los Angeles, Cal.

Wadsworth, Howland & Co., 84 Wash'n, Bos-
ton, Mass.

WOOD-MOSAIC FLOORING & LUM-
ber Co.; Main Office & Works, Rochester,
N. Y. (See adv. index & branch offices, end
of book)

Floor Surfacing Machines

(See Machinery)

***Floor Stands for Valves**

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch offices,
end of book)

Floor Treads (Electric Bell)

Renim Specialty Co. ("Renim" for Use with Rigid or Flexible Metallic Conduit, etc.), Brighton Station, Boston, Mass.

Floor Wax

Boyle, A. S. & Co., 1908 W. 8th, Cincinnati, O.
Great Western Oil Co., Cleveland, O.
Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York

***Flooring (Car)**

AMERICAN MASON SAFETY TREAD Co. ("Karbolith"), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

***Flooring for Stables**

FLEMING & CO. (Adamantine Clinker Brick), 253 B'way, New York. (See adv. index, end of book)

Flooring (Hard Wood)

Carrier Lumber & Mfg. Co., Sardis, Miss.
Cincinnati Floor Co., Cincinnati, O.
Cobbs & Mitchell (Inc.), (Electric, Maple & Beech), Cadillac, Mich.
Cowper & Wilson Olean, N. Y.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Dennis Bros. (Birch & Maple), Grand Rapids, Mich.
Dunfee & Co., 59 N. Claremont av, Chicago, Ill.
Dwight Lumber Co., Detroit, Mich.
Farrin, M. B. Lumber Co. (Poplar Siding & "Century" Oak Flooring), Cincinnati, O.
Heaton & Wood, 1706 Chestnut, Phila., Pa.
Inlaid Floor Co., 422 Sutter, San Francisco, Cal.

THE INTERIOR HARDWOOD CO

MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book)
Johnson, S. O. & Son, Racine, Wis.
Kentucky Hardwood Flooring Co., Louisville, Ky.

Nashville Hardwood Flooring Co. ("Acorn Brand" & Oak Beech), Nashville, Tenn.
New Glasgow Planing Mill Co. (Beech, Oak, etc.), Glasgow, Ky.
North Vernon Lumber Co. ("Indiana" Brand), North Vernon, Ind.
Salmon, Hamilton H. & Co. (Wholesale Mfrs.), 88 Wall, New York

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Union Planing Mill Co., Olean, N. Y.
Waccamaw Lumber Co., Bolton, N. C.
Wilce, T. Co., 22d & Throop, Chicago, Ill.
WOOD-MOSAIC FLOORING & LUMBER CO., Main Office & Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

Flooring (Maple)

Benedict, C. D. & Co., Peoria, Ill.
Bruckman Lumber Co., Allegheny, Pa.
Buffalo Maple Flooring Co. ("Michigan Rock"), Buffalo, N. Y.
Cobbs & Mitchell (Inc.), ("Electric"), Maple & Beech, Cadillac, Mich.
Cream City Sash & Door Co., 7th av & Park, Milwaukee, Wis.
Cummer, Diggins & Co., Cadillac, Mich.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.

Dennis Bros. ("National"), Grand Rapids, Mich.
Dwight Lumber Co. (and Wholesale Dealers), Rouge River & M. C. R. R., Detroit, Mich.

Eastman, S. L., Flooring Co. ("Saginaw Brand"), Saginaw, Mich.

Excelsior Clay Works, Brazil, Ind.
Forman, Thos. Co. (Maple & Oak. Bored & End Matched), Detroit, Mich.

Fuller & Rice Lumber & Mfg. Co., Grand Rapids, Mich.

Gilchrist, F. W., Alpena, Mich.
Haak Lumber Co. ("Haakwood"), Haakwood, Mich.

Hettler, Herman H. Lumber Co. (Modern Brand), 1324 Elston av, Chicago, Ill.

Kelley Lumber & Shingle Co. (Kiln Dried. End Matched, Polished & Bored), Traverse City, Mich.

Kerry & Hanson Flooring Co. ("Chief" Brand), Grayling, Mich.

Krouskop, A. H., Richland Center, Wis.
Lennan, Isaac P. & Co., Lumber Exchange, Minneapolis, Minn.

Lobdell & Churchill Mfg. Co., Onaway, Mich.
Manistee Planing Mill Co., Manistee, Mich.
Mitchell Bros. Co. ("Rockhard"), Cadillac, Mich.
Morgan Co., Oshkosh, Wis.

Nichols & Cox Lumber Co., Grand Rapids, Mich.

North Branch Flooring Co., 1735 N. Western av, Chicago, Ill.

Read, F. W. & Co. (I. & L. Polished, etc.), Marquette, Mich.

Rittenhouse & Embree Co. (Gilt Edge), 3500 S. Centre av, Chicago, Ill.

Robbins Lumber Co. ("Robbins" Rock Maple), Rhinelander, Wis.

Schroeder, Jno. Lumber Co., Milwaukee, Wis.
Schultz Bros., 84 Van Buren, Chicago, Ill.

STEARNS, A. T. LUMBER CO. (Lumber), Neponset, Boston, Mass. (See adv. index, end of book)

Stephens, Henry, & Co., Detroit, Mich.
Stephenson, I., Co. ("Ideal" Rock Maple), Wells, Mich.

Ward Bros. ("Michigan"), Big Rapids, Mich.
White, W. H., Co. ("White Rock"), Detroit, Mich.

Wilce, T. Co., Throop & W 22d sts, Chicago, Ill.

Williams, W. E., Co., Traverse City, Mich.
Wisconsin Land & Lumber Co. (Maple, Birch & Cherry), Hermansville, Mich.

Young, W. D. & Co., West Bay City, Mich.

Flooring (Oak)

(See also Flooring, Maple)

Arpin Hardwood Lumber Co. ("A-H-L" Brand. Red Oak), Grand Rapids, Mich.

Arthur Hardwood Flooring Co. (Arthur Brand), Memphis, Tenn.

Bruckman Lumber Co., Allegheny, Pa.
Buffalo Maple Flooring Co. ("Michigan Rock"), Buffalo, N. Y.

Carrier Lumber & Mfg. Co. (Kiln Dried, Bored, Polished, End Matched, etc.), Sardis, Miss.

Dwight Lumber Co., Rouge River & M. C. R. R., Detroit, Mich.

Farrin-Korn Lumber Co., Station av, Winton pl, Cincinnati, O.

Farrin, M. B. Lumber Co. ("Century," also Poplar Siding), Cincinnati, O.

Fern Bros. Co., Memphis, Tenn.
Forman, Thos. Co., Detroit, Mich.

Fourche River Lumber Co., Fourche, Ark.

INTERIOR HARDWOOD CO., Indianapolis, Ind. (See adv. index, end of book)

Kentucky Hardwood Flooring Co., Louisville, Ky.

Krouskop, A. H., Richland Centre, Wis.
Linehan Lumber Co., Pittsburg, Pa.

Mitchell Bros. Co. ("Red Oak"), Cadillac, Mich.
Morgan Co., Factory & General Offices, Oshkosh, Wis.

Nashville Hardwood Flooring Co. ("Acorn"), Nashville, Tenn.

New Glasgow Planing Mill Co. (Kiln Dried Bored, End Matched, Hollow Back & Polished), Glasgow, Ky.

Rittenhouse & Embree Co. (Gilt Edge), 3500 S. Centre av, Chicago, Ill.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Wilce, F. Co., 22d & Throop, Chicago, Ill.

WOOD-MOSAIC FLOORING & LUMBER CO., Main Office & Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

Flooring (Sanitary)

American Hydrolith Co. ("Hydrolith"), 25 Dean, Brooklyn, N. Y.

AMERICAN MASON SAFETY TREAD Co. ("Karbolith"), 702 Old South bldg, Boston, Mass. (See adv. index & branch offices, end of book)

American Monolith Co. ("Monolith"), Milwaukee, Wis.

Asbestolith Mfg. Co., 156 5th av, New York

Eastern Concrete Machinery & Supply Co. ("Marble Crete"), Akron, N. Y.

California Peerless Stone Tile & Plaster Co., San Francisco, Cal.

Demolith Co. ("Demolith," "Xolith"), San Francisco, Cal.

De Pianque, R., & Son ("Sorelith" Fireproof Composition), 341 N 4th, Phila., Pa.

Imperial Floor Co., Rochester, N. Y.
Keasbey, Robt. A., Co. ("Crown"), 100 N Moore st, New York

Magnalith Flooring & Wainscoting Co., 116-118 California st, San Francisco, Cal.

Magno-Artolith Co. (Composition), 253 B'way, New York

Marbleoid Co. ("Sanitas," "Marbleoid"), 47 W 34th, New York

Petit Manufacturing Co. ("Magnalith" Plastic), Butler bldg, San Francisco, Cal.

Raocolith Co. ("Raocolith"), Portland, Ore.

Schillinger Bros. Co., Toledo, O.

Sedgwick-Flower Co. ("Ideal-Monolith"), 271 B'way, New York

Thompson & Kirkpatrick ("Imperial," Asbestos), 1021 Callowhill, Phila., Pa.

United States Dolomite Co. (Ltd.) ("Dolomite"), 949 B'way, New York

Warren Bros. Co. ("Puritan"), Boston, Mass.

Flooring (Wood Block)

INTERIOR HARDWOOD CO., Indianapolis, Ind. (See adv. index, end of book)

Nightingale Co. (Interlocking, Laid on Cement Only), 277 B'way, New York

WILSON, JAS. G. MFG. CO. (English System), Chief Office, 3 W 29th, New York

Mills & Factory: Norfolk, Va. (See adv. index, end of book)

WOOD-MOSAIC FLOORING & LUMBER CO., Main Office & Works, Rochester, N. Y. (See adv. index & branch offices, end of book)

Floors (Parquet)

(Star (*) Indicates Manufacturers)

Acme Floor Co., 271 Wabash av, Chicago, Ill.

Adams, R. T. (Wood Mosaic Flooring Co.), 24 Bloomfield, Boston, Mass.

American Parquetry Co., 3 E 42d, New York

*American Parquetry Floor Co., 1124 Walnut, Philadelphia, Pa.

Bateman, Wm., 835 Folsom, San Francisco, Cal.

*Bostwick-Godell Co., Norwalk, O.

*Boynton, John H., 186 5th av, New York

Buttle Parquet Floor Co., 36 W. 27th, New York

Carthage Lumber Co., Carthage, N. Y.

*Cincinnati Floor Co., Cincinnati, O.

Cleveland Grille & Mfg. Co., W 30th & Walworth av, Cleveland, O.

Cleveland Hardwood Floor Co., 1241 E 45th, 39 Taylor Arcade, Cleveland, O.

*Dunfee, J. & Co., 104 Franklin Union, Chicago, Ill.

Eaglesfield-Stewart Co., Indianapolis, Ind.

Halbert, Geo. & W., 455 Fulton, Brooklyn, N. Y.

Hamilton, H. E. & Co., Indianapolis, Ind.

Heaton & Wood, 1706 Chestnut, Phila., Pa.

Herr, Jno. Floor Co., 2110 Olive, St. Louis, Mo.

Inlaid Floor Co., 422 Sutter, San Francisco, Cal.

THE INTERIOR HARDWOOD CO

MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book)

Interlaced Parquetry Floor Co., 13 Lawrence, New York

*Johnson, S. O. & Son, Racine, Wis.

*Koch, G. W. & Son, 467 5th av, N. Y.

Lennan, Isaac P. & Co. (Wholesale), Lumber Exchange, Minneapolis, Minn.

Moore, E. B. & Co., 76 Wabash, Chicago, Ill.

Moore, J. C. & Co., 38 S 18th, Phila., Pa.

*National Wood Floor Co., 500 5th av, New York

*New York Flexible Wood Flooring Co., 37 W 42d, New York

Nightingale Co. (Interlocking, Laid on Cement Only), 277 B'way, New York

Northwestern Parquet Floor Co., 82 S 9th, Minneapolis, Minn.

Osgood, Blodgett Mfg. Co., St. Paul, Minn.

*Pope, Charles A., 726 Lexington av, New York

Reid, Wm. G. & Co., 2 W 33d, N. Y.

Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl, Chicago, Ill.

Roll's, W. H. Sons, Indianapolis, Ind.

Scott, Walker A. (Mfr.), Evansville, Ind.

Serage Hygienic Floor Co., Columbus, O.

Smith, Jno. A. Co. (Operative Floor Co.), Los Angeles, Cal.

Standard Parquet Floor Co., 80 Court, Brooklyn, N. Y.

Terwilliger Mfg. Co., 11 W 30th, New York, & 302 Fulton, Brooklyn, N. Y.

Terwilliger Mfg. Co., 3 W 23d, New York, & 302 Fulton, Brooklyn, N. Y.

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ROCHESTER, N. Y. ABNER ADAMS CO., 58 East Avenue
SAN FRANCISCO, CAL. HARDWOOD INTERIOR CO., 873 O'Farrell Street
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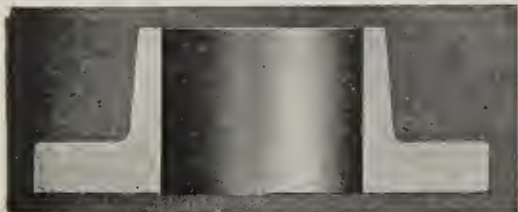
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 York, & 153 Lawrence, Brooklyn, N. Y.
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 ber Co., Main Office & Works, Rochester,
 N. Y. (See adv. index & branch offices,
 end of book)

Floors (Sanitary)

(See Flooring, Sanitary)

Flour (Foundry)

Federal Foundry Supply Co., Cleveland, O.
HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)
 Plqua Flour Co. (Core Flour), Plqua, O.
 Millers' Products Co., 39th & Wallace, Chi-
 cago, Ill.

Flour Mill Builders

Barnard Machinery Co., Enterprise, Kan.
 Barnard & Leas Mfg. Co., Moline, Ill.
 Dehner-Wuerpel Mill Bldg. Co., St. Louis, Mo.
 Gump, B. F., Co., S. Clinton, Chicago, Ill.
 Hutchinson, Jno. Mfg. Co., Jackson, Mich.
 Robinson Mfg. Co., Muncy, Pa.
 Salem Foundry & Machine Works, Salem, Va.
 Starr, B. F. Co., 455 North, Baltimore, Md.
 Stone, R. C., Springfield, Mo.

Flower Pot Mfrs.

Cambridge Tile Mfg. Co. (Inc.), Covington, Ky.
 Carnegie Brick & Pottery Co., San Fran-
 cisco, Cal.
 Detroit Flower Pot Mfg. Co., 490 Howard,
 Detroit, Mich.
 Findlay Clay Pot Co., Findlay, O.
 Ionia Pottery Co., Ionia, Mich.
 Johnson Pottery Co., Mt. Gilead, O.
 Standard Toy Marble Co., Akron, O.
 Syracuse Pottery Co., Syracuse, N. Y.
 Uhl Pottery Co., Evansville, Ind.
 Washington Brick, Lime & Mfg. Co., Spokane,
 Wash.
 Wassall Fire Clay Co., 40 E Spring, Columbus,
 Ohio

*Flower Pot Mfrs. (Metal, in Battery)

WILSON, F. CORTEZ & CO. ("Potaly"),
 239 Lake, Chicago, Ill. (See adv. index,
 end of book)

Flue Cleaners or Brushes

(See Cleaners, Boiler Flue & Tube)

Flue Linings

American Clay Products Co., 138 Washing-
 ton, Chicago, Ill.
AMERICAN CONCRETE CO. (Concrete),
 80 William, New York. (See adv. index,
 end of book)
 American Sewer Pipe Co., Bessemer bldg. Pitts-
 burg, Pa.
 Birmingham Fire Brick Works, Birmingham,
 Ala.
 Brockett O. A. Cement Co., Kansas City, Mo.

Brooklyn Fire Brick Works, 88 Van Dyke, Brook-
 lyn, N. Y.
 Buckeye Fire Clay Co., Uhrichsville, O.
 Carnegie Brick & Pottery Co., San Francisco,
 Cal.

Chattanooga Sewer Pipe & Brick Co., Chat-
 tanooga, Tenn.
 Clearfield Clay Working Co., Clearfield, Pa.
 Clark, N. & Sons, 17 Spear, San Francisco, Cal.
 Crown Fire Clay Co., Canal Dover, O.
 Denny-Renton Clay & Coal Co., Seattle, Wash.
 Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
 Duffy, J. P. Co., 440 E 138th, New York
 East Ohio Sewer Pipe Co., Irondale, O.
 Evens & Howard Fire Brick Co., 920 Market,
 St. Louis, Mo.

Federal Clay Mfg. Co., B'way & 23d, New
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 Iron bldg, New York. (See adv. index,
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 Gladding, McBean & Co., San Francisco, Cal.;
 Works, Lincoln, Cal.
 Golden Pressed & Fire Brick Co., 431 15th,
 Denver, Col.

Iowa Pipe & Tile Co., Des Moines, Ia.
 Klotz, A. E. Fireproofing Co., 137th & Mad-
 son av, New York
 Laclede-Christy Clay Products Co., St. Louis,
 Mo.
 Little Falls Fire Clay Co., Little Falls, Wash.
 Macomb Sewer Pipe Co., Macomb, Ill.
MAURER, HENRY & SON, 420 E 23d,
 New York; Penna. bldg, Philadelphia, Pa.;
 Works, Maurer, N. J. (See adv. Front In-
 side Cover)

Monmouth Mining & Mfg. Co., Monmouth, Ill.
 National Terra Cotta Works, 316 13th, N. W.,
 Washington, D. C.
 New York Pottery Co., 949 B'way, New York
 Parker & Russell Mining & Mfg. Co., 417 Pine,
 St. Louis, Mo.

Patton Clay Mfg. Co., Patton, Pa.
 Pea Shore Brick & Terra Cotta Works, 31 Mar-
 ket, Camden, N. J.
 Pittsburg Sewer Pipe & Conduit Co., Pitts-
 burg, Kans.
 Pomona Terra Cotta Co., Pomona, N. C.
 Robinson Clay Product Co., Akron, O.
 Rochester Sewer Pipe Co., 545 Oak, Rochester,
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St. Marys Sewer Pipe Co., St. Marys, Pa.
 Shawmut Clay Mfg. Co. ("Shawmut"),
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 Southern Sewer Pipe Co., Birmingham, Ala.
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 lanta, Ga.

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 Cotta), San Francisco, Cal.
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 Streater Clay Mfg. Co., Streater, Ill.
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 N. Y.

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KEELER, E. CO., Williamsport, Pa.
 (See adv. index & branch offices, end of book)
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 Co., Bay City, Mich. (See adv. index, end
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 Rlston Iron & Locomotive Works, San Fran-
 cisco, Cal.
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 av, Pittsburg, Pa. (See adv. index, end of
 Southern Bridge Co., Birmingham, Ala. book)

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 York
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 poses), Wheeling, W. Va., & Salem, Ky.
 Fairview Fluor Spar & Lead Co., 38 Park
 Row, New York. Mines: Golconda, Ill.
HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)
 Kentucky Fluor Spar Co., Marion, Ky.
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Penna. Salt Mfg. Co. (Pyrite), 115 Chestnut,
 Philadelphia, Pa.

Roessler & Hasslacher Chemical Co., 100 Wil-
 liam, New York
 Rosiclaire Lead & Fluorspar Mines, Washing-
 ton, D. C.
 Tennant's, C. Sons & Co. (Importers), 76 Wil-
 liam, New York
 Wiarda, Jno. C. & Co., Brooklyn, N. Y.

Flush Tanks

Koven, L. O., & Bro., 50 Cliff, New York
MERRITT & CO., Front & Arch,
 Camden, N. J. (See adv. index, end of book)
 Newport Foundry & Machine Corporation (Sew-
 age Disposal Siphon), Newport, R. I.
 Pacific Flush Tank Co. ("De La Hunt," also
 "Miller," Automatic Siphon for Flushing
 Sewers), 184 La Salle, Chicago, Ill.
SCAIFE, WM. B. & SONS CO., 221 1st
 av, Pittsburg, Pa. (See adv. index, end of
 book)

Flushers (Automatic Sewage)

Healey Sewer Machine & Construction Co., 15
 Beacon, Boston, Mass.
MERRITT & CO., Front & Arch,
 Camden, N. J. (See adv. index, end of book)

Flux (Brass Foundry)

Foundry Specialty Co., Cincinnati, O.

Flux (Soldering)

(See Soldering Paste, Salts & Stick)

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HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)

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(See adv. index, end of book)
WRIGHT WIRE CO., Worcester, Mass.
(See adv. index & branch offices, end of book)

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Given, R. & Son Co. (For Horses), Sidney, O.
Penna Net Co., Wellsville, Pa.
Wellsville Mfg. Co., Wellsville, Pa.
Wilson, R. F. & Co. (Leather), Milton, Pa.

Fly Screens

(See Screens, Window, Metal Frame; also Screens, Window & Door; also Screens, Wire, Rustless)

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Electric Heating & Mfg Co. (Also Room Heaters), Los Angeles, Cal.

Force Cups (Rubber)

Morgan & Wright (Inc.) (Plumbers), Detroit, Mich.

Forges (Blacksmiths')

(See Forges, Portable)

Forges (Blast)

Buffalo Forge Co. (Stationary & Portable), Buffalo, N. Y.
Miner & Peck Mfg. Co., New Haven, Conn.
New York Blower Co., 25th pl & Stewart av., Chicago, Ill.; Works: Bucyrus, O.
Sturtevant, B. F. Co., Hyde Park, Mass.

Forges for Brazing Irons

COVEL MFG. CO., Benton Harbor, Mich.
(See adv. index, end of book)
Hauck Mfg. Co., 140 Cedar, New York

Forges for Drop Forging Plants

AMERICAN GAS FURNACE CO. (Gas Blast), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
Billings & Spencer Co., Hartford, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
Miner & Peck Mfg. Co., New Haven, Conn.
Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

Forges (Gas Blast)

AMERICAN GAS FURNACE CO., 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
CHICAGO FLEXIBLE SHAFT CO. ("Stewart"), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)
Comstock, A. S. (Automatic Power), Evanston, Ill.
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
U. S. Gas Furnace Co., 159 Aborn, Providence, R. I.
Westmacott Gas Furnace Co., 159 Orange, Providence, R. I.

Forges (Heating)

Beaudry & Co., 141 Milk, Boston, Mass.
Bradley, C. C. & Son, Syracuse, N. Y.
Buffalo Forge Co., Buffalo, N. Y., & 39 Cortlandt, New York
Canedy-Otto Mfg. Co. (Portable & Stationary), Chicago Heights, Ill.

CHICAGO FLEXIBLE SHAFT CO.

("Stewart" Crude Oil or Gas), Chicago, Ill.
(See adv. index & branch offices, end of book)
Crane, W. W. Foundry & Machine Works, Auburn, N. Y.
Evans', Jno. Sons (& Welding), 13th & Bntonwood, Philadelphia, Pa.
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
New York Blower Co., 25th pl & Stewart av., Chicago, Ill.; Works: Bucyrus, O.

Forges (Oil, Portable)

Boston Crude Oil Burner Co. (For Heating Rivets, etc.), Board of Trade bldg, Boston.
Burke Machinery Co., Cleveland, O.
Hauck Mfg. Co., 140 Cedar, New York
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
National Supply Co. ("Billow" System), 315 Dearborn, Chicago, Ill.

Forges (Pneumatic)

Gunnell Machine Co., Manitowoc, Wis.
MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

Forges (Portable)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Billings & Spencer Co., Hartford, Conn.
Boynton & Plummer, Worcester, Mass.
Braun, F. W., 18 Spear, San Francisco, Cal
Brown & Patterson, 33 Marcy av, Brooklyn, N. Y.
Buffalo Forge Co., Buffalo, N. Y.
Canedy-Otto Mfg. Co. ("Western Chief" & "Royal"), Chicago Heights, Ill
CANTON FOUNDRY & MACHINE CO. ("Universal" Blacksmiths', etc.), Canton, O. (See adv. index, end of book)
Champion Blower & Forge Co., Lancaster, Pa.
Chicago Scale Co., 292 W Jackson boul, Chicago, Ill.
Cleveland Steam Gauge Co. ("Watson"), 1619 Merwin, N. W., Cleveland, O.
Cox & Sons Co., 215 Race, Phila, Pa.
Cumming, David, 787 W Kinzie, Chicago, Ill.
DONEGAN & SWIFT, 9 Murray, New York. (See adv. index, end of book)
Fargo Foundry Co. (Farm), Fargo, N. D.
Foos Mfg. Co. (Blacksmiths & Farmers), Springfield, O.
Garratt, W. T. & Co., Fremont & Natoma, San Francisco, Cal.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Potts, D. H., Lancaster, Pa.
Roots, P. H. & F. M. Co., Connersville, Ind.
Russ, A. E. Mfg. Co., 6813 Wade Park av, N E, Cleveland, O.
Silver Mfg. Co., Salem, O.
Slotkin, Mayer ("Kickdrive"), 210 Canal, New York
Star Forge Co. (Portable Bellows Forge), Buffalo, N. Y.
Sturtevant, B. F. Co., Hyde Park, Mass.
Union Forge & Mfg. Co. (Rivet), 142 Ryan, Buffalo, N. Y.
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Forges (Rivet Heating)

Boston Crude Oil Burner Co. ("Jackson" Oil Burner Self-Cleaning), Board of Trade bldg, Boston, Mass.
Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
Hauck Mfg. Co., 140 Cedar, New York
INGERSOLL-RAND CO. ("McDonald"), 11 B'way, New York. (See adv. index & branch offices, end of book)
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
Rockwell Furnace Co. (Portable Oil), 26 Cortlandt, New York
Star Forge Co. (Portable Bellows Forge), Buffalo, N. Y.
TATE, JONES & CO. (Inc.) (Portable Oil Rivet Forges), Empire bldg, Pittsburgh, Pa. (See adv. index, end of book)

Forges (Tire Iron)

(See Heaters, Teyere Iron)

Forging Machines

(See Machines, Forging)

Forgings (Aluminum)

Belden Machine Co., New Haven, Conn.
Union Drop Forge Co., 69 Indiana, Chicago, Ill.
United States Aluminum Co., Pittsburg, Pa.
Williams, J. H. & Co., 150 Hamilton, Brooklyn, N. Y.

Forgings (Automatic Coupler)

American Iron & Steel Co. (Back Link, Knuckle & Pivot Pins, Drawhead Bolts & Nuts, etc.), Lebanon, Pa.

Forgings (Automobile)

(See also Forgings, Drop)

AMERICAN SPIRAL PIPE WORKS, W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)
American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Atwater Mfg. Co., Plantsville, Conn.
Bates Forge Co., Indianapolis, Ind.
Belden Machine Co., New Haven, Conn.
Bethlehem Steel Co. (Of Special Grades of Steel), South Bethlehem, Pa.
Billings & Spencer Co., Hartford, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Bonney Vice & Tool Works (Inc.), Allentown, Pa.
Bullard Automatic Wrench Co., Providence, R. I.
Chester Forging & Engineer'g Co., Chester, Pa.
Chicago Drop Forge & Foundry Co., 115th pl & M. C. R. R., Chicago, Ill.
Consolidated Mfg. Co., Toledo, O.
Crescent Forgings Co., Oakmont, Pa.
Detroit Steel Products Co., E Grand blvd & Chene, Detroit, Mich.
Dunne, Geo. W. & Co., 687 Carroll av, Chicago, Ill.
Dyson, Jos. & Sons, 5125 St. Clair av, N E, Cleveland, O.
FRASSE, PETER A. & CO., 130 Worth, New York. (See adv. index & branch offices, end of book)
Funk Engineering Co., 39 14th, Hoboken, N. J.
General Drop Forge Co., 1738 Elmwood av, Buffalo, N. Y.
Gill, P. H. & Son, Lorraine & Otsego, Brooklyn, N. Y.
Hayes Mfg. Co. (Iron), Detroit, Mich.
Heppenstall Forge & Knife Co., Pittsburg, Pa.
Indianapolis Drop Forging Co., Indianapolis, Ind.
Jackson Drop Forging Co., Jackson, Mich.
Keystone Drop Forge Works, Chester, Pa.
Ohio Forge Co., Cleveland, O.
PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
Richmond Forgings Corporation, Belle Isle, Richmond, Va.
Seward, M. & Son Co., New Haven, Conn.
Sizer Forge Co., Buffalo, N. Y.
Standard Connecting Rod Co., Beaver Falls, Pa.
Strieby & Foote Co. (Drop), Newark, N. J.
Tindel-Morris Co. (Finished), Eddystone, Pa., & Ellwood City, Pa.
Transue & Williams Co., Alliance, O.
Union Drop Forge Co., 69 Indiana, Chicago, Ill.
Williams, J. H. & Co. (Drop Forgings of Every Description), 150 Hamilton av, Brooklyn, N. Y.
WORCESTER PRESSED STEEL CO. (Cold), Worcester, Mass. (See adv. index, end of book)
Wyman & Gordon, Worcester, Mass.

Forgings (Bronze)

Billings & Spencer Co., Hartford, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Detroit Steel Products Co., E Grand blvd & Chene, Detroit, Mich.
Eureka Tempered Copper Works, North East, Pa.
General Drop Forge Co., 1738 Elmwood av, Buffalo, N. Y.
Keystone Drop Forge Works, Chester, Pa.

PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
 Phosphor Bronze Smelting Co., Ltd., 2200 Washington av., Philadelphia, Pa.
 Transue & Williams Co., Alliance, O.
 Union Drop Forge Co., Chicago, Ill.
 Williams, J. H. & Co., 150 Hamilton av., Brooklyn, N. Y.
 Wyman & Gordon, Worcester, Mass.

*Forgings (Cold)

WORCESTER PRESSED STEEL CO., Worcester Mass. (See adv. index, end of book)

Forgings (Copper)

Belden Machine Co., New Haven, Conn.
 Billings & Spencer Co., Hartford, Conn.
 Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
 Eureka Tempered Copper Works, North East, Pa.
 Forest City Electric Co. (Roll Drop), Cleveland, Ohio
 General Drop Forge Co., 1738 Elmwood av., Buffalo, N. Y.
 Keystone Drop Forge W'ks, Chester, Pa.
 Kilborn & Bishop Co., New Haven, Conn.
PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
 Transue & Williams Co., Alliance, O. (book)
 Union Drop Forge Co., Chicago, Ill.
 Williams, J. H. & Co., 150 Hamilton av., Brooklyn, N. Y.
 Wyman & Gordon, Worcester, Mass.

Forgings (Drop)

Akron Machine Co., Akron, O.
AMERICAN SPIRAL PIPE WORKS. W 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)
 American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Barnes, Wallace Co. (Small), Bristol, Conn.
 Barnett Drop Forging Co., Easthampton, Mass.
 Bassett, D. M. Bolt Works (Inc.), Shelton, Conn.
 Bates Forge Co. (Flange Wheels), Indianapolis, Ind.
 Belden Machine Co., New Haven, Conn.
 Bethlehem Steel Co., South Bethlehem, Pa.
 Billings & Spencer Co., Hartford, Conn.
 Billings, C. E. Mfg. Co., Rocky Hill, Conn.
 Blakeslee Forging Co., Plantsville, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Bonney Vice & Tool Works (Inc.), Allentown, Pa.
 Booth Drop Forge Co., 114 Nassau, New York
 Brown, R. H. & Co., New Haven, Conn.
 Bullard Automatic Wrench Co., Providence, R. I.
 Cambria Forge Co. (Light & Heavy), Johnstown, Pa.
 Canton Drop Forge & Mfg. Co., Canton, O.
 Cape Ann Tool Co., Rockport, Mass.
 Chicago Drop Forge & Foundry Co., 115th st & M. C. R. R., Chicago, Ill.
 Clapp, E. D. Mfg. Co. (Carriage, Bicycle, etc.), Auburn, N. Y.

Cleveland Drop Forging Co., Cleveland, O.
 Columbia Machine Works & Malleable Iron Co. (Elec. Railway), 269 Chestnut, Brooklyn, N. Y.
 Columbus Bolt Works (Carriage, etc.), Columbus, O.
 Columbus Forge & Iron Co., Columbus, O.
 Consolidated Mfg. Co., Toledo, O.
 Crescent Forgings Co., Oakmont, Pa.
 Crescent Tool Co., Jamestown, N. Y.
 Detroit Forging Co. (Carriage, etc.), Detroit, Mich.
 Detroit Steel Products Co., E Grand blvd & Chene, Detroit, Mich.
 Doble, Abner Co. (All Kinds), 200 Fremont, San Francisco, Cal.
 Eccles, Richard Co. (Carriage & Special), Auburn, N. Y.
FRASSE, PETER A. & CO., 130 Worth, New York. (See adv. index & branch offices, end of book)
G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)
 General Drop Forge Co., 1738 Elmwood av., Buffalo, N. Y.
 Granger, David J., 25 S Canal, Chicago, Ill.
GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av., Philadelphia, Pa. (See adv. index & branch offices, end of book)
HELVIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
 Henry & Allen, Auburn, N. Y.
 Herbrand Co., Fremont, O.
 Indianapolis Drop Forging Co. (All Kinds), Indianapolis, Ind.
 Jackson Drop Forging Co., Jackson, Mich.
 Keystone Drop Forge Works (Special, all kinds), Chester, Pa.
 Keystone Forging Co. (Carriage & Special), Northumberland, Pa.
 Kilborn & Bishop Co. (Carriage, Bicycle, etc.), New Haven, Conn.
 Lorain Steel Co., Penna. bldg, Phila., Pa.
 McKay, Jas. & Co., Germania Bank bldg. Pittsburg, Pa.; Works: McKees Rocks, Pa.
 Marine Hardware & Equipment Co., South Portland, Me.
MERRILL BROS., William st., Maspeth (Borough of Queens), New York. (See adv. index, end of book)
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moore Drop Forging Co., Springfield, Mass.
 New Castle Forge & Bolt Co., New Castle, Pa.
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
 O. K. Tool Co., Shelton, Conn.
 Ohio Forge Co., Cleveland, O.
 Oliver Iron & Steel Co. (Car & General), Pittsburg, Pa.
PAGE-STORMS DROP FORGE CO. (Gun, Automobile, Bicycle, Golf & Special), Chicopee, Mass. (See adv. index, end of book)
 Park Drop Forge Co., Cleveland, O.
 Penna. Drop Forging Co., 937 Fayette, Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. (R. R. & Mining Tools), Chester Pa.
 Richmond Forgings Corporation, Belle Isle, Richmond, Pa.
 Rhode Island Tool Co., Providence, R. I.
 Scranton Forging Co. (Carriage, etc.), Scranton, Pa.
 Seward, M. & Son Co. (Carriage, Bicycle, etc.), New Haven, Conn.

Smith, H. D. & Co. (Vehicle & Special), Plantsville, Conn.
 Solid Steel Tool & Forge Co. (Track, Mining & Blacksmiths' Tools), Brackenridge, Pa.
 Springfield Drop Forging Co., Springfield, Mass.
 Strieby & Foote Co. (Automobile & Special), 301 Ogden, Newark, N. J.
 Thomson Drop Forging Co., Plantsville, Conn.
 Tindel-Morris Co., Eddystone, Pa.
 Transue & Williams Co., Alliance, O.
 Union Drop Forge Co., Chicago, Ill.
 United Drop Forging Co., Springfield, Mass.
 Utica Drop Forge & Tool Co., Utica, N. Y.
 Western Drop Forge Co., Marion, Ind.
WHEELER, CHARLES CHILD, 113 B'way, New York. (See adv. index, end of book)
 Whitaker Mfg. Co., 30 W Monroe, Chicago, Ill.
 Wilcox, D. Mfg. Co., Mechanicsburg, Pa.
 Wilcox, Crittenden & Co., Middletown, Conn.
 Williams Drop Forging Co. ("Williams" Cant-slip Horse Shoes & Calks), Scranton, Pa.
 Williams, J. H. & Co., 150 Hamilton av., Brooklyn, N. Y.
 Winkelman, Louis, & Co., 445 E Pearl, Cincinnati, O.
 Wyman & Gordon, Worcester, Mass.

Forgings (Electric)

(See Welding, Electric)

Forgings (Electric Railway)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Billings & Spencer Co., Hartford, Conn.
 Columbia Machine Works & Malleable Iron Co., Atlantic av & Chestnut, Brooklyn, New York
 Dunne, Geo. W. & Co., 687 Carroll av., Chicago, Ill.
 General Drop Forge Co., 1738 Elmwood av., Buffalo, N. Y.
 Keystone Drop Forge Works, Chester, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
 Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
 Williams, J. H. & Co., 150 Hamilton av., Brooklyn, N. Y.

Forgings (Gas Engine)

(See also Forgings, Drop; also Forging, Iron & Steel)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Heppenstall Forge & Knife Co., Pittsburg, Pa.
 Keystone Drop Forge Works, Chester, Pa.
 Tindel-Morris Co. (Specialty, Crankshafts Finished), Eddystone, Pa. & Ellwood City, Pa.
 Tioga Steel & Iron Co., 52d & Gray's av., Phila., Pa.
 Union Drop Forge Co., 66 E Ohio, Chicago, Ill.

Forgings (German Silver)

Riverside Metal Co., Riverside, N. J.

PAGE-STORMS DROP FORGE CO.

10 EXCHANGE ST., CHICOPEE, MASS.

.. MANUFACTURERS OF ..

DROP FORGINGS

—OF EVERY DESCRIPTION IN—

STEEL, IRON, BRONZE AND COPPER.

Drop Forged Wrenches

(Unfinished, Semi-Finished and Finished)

Engineers and Machinists
 Check Nut Set Screw
 Angle Construction
 General Purpose

Straight End
 Car "S"
 Structural
 Tool Post

Largest Stock of Wrenches Carried in CHICAGO and NEW YORK.

***Forgings (Golf)**

PAGE-STORMS DROP FORGE CO.,
Chicopee, Mass. (See adv. index, end of book)

Forgings (Hollow)

Bethlehem Steel Co., South Bethlehem, Pa.

Forgings (Hydraulic)

American Tube & Stamping Co., Bridgeport, Conn.
American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
Bethlehem Steel Co., South Bethlehem, Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Forgings (Iron & Steel)**ALABAMA.**

BIRMINGHAM—Birmingham Steel & Iron Co.
HUNTSVILLE—Huntsville Fdy. & Machine Works (Nolan & Jones, Props.), (Light & Heavy)
MOBILE—Alabama Iron Works (Light & Heavy)

CALIFORNIA.

MARYSVILLE—Yuba Construction Co.
SAN FRANCISCO—Doble, Abner, Co. Hammond, Jno., & Co., 7th & King
Noble Electric Steel Co.
Pennington, G. W. Sons (Inc.)
Union Iron Works (Ship & Mining), 20th & Mich.

CONNECTICUT.

BRIDGEPORT—American Tube & Stamping Co.
Bridgeport Forge Co.
Farist Steel Co. (Steel Railroad & Machinery)
Pacific Iron Works (Inc.)
HARTFORD—Billings & Spencer Co.
PLANTSVILLE—Atwater Mfg. Co. (Carriage & Specials)
Smith, H. D. & Co. (Carriage)

GEORGIA.

SAVANNAH—Kehoe, Wm. & Sons (Heavy)
Rourke, Jno. & Sons (Heavy)

ILLINOIS.

CHICAGO—Ajax Forge Co., 1104 Blue Island av
AMERICAN SPIRAL PIPE WKS., W 14th & 48th av. (See adv. index, end of book)
Chicago Drop Forge & Foundry Co., 35th & Ashland av
Chicago Crossing Co., Monadnock bldg, Chicago, Ill.
Continental Bolt & Iron Works (Structural, etc.), 22d & Union
Dunne, Geo. W. & Co., 689 Carroll av
Granger, David J., 31 W Washington
Hall Machine Co., 54 N Desplaines
Kropp, A. & Co. (Railroad, Ship, Bridge, Bldg, etc.), 52 Law av
O'Leary, Arthur J. & Son Co. (Bars, Rods, Bolts, Vises, Railway & Quarry Tools, etc.), 132 W Lake
Sundberg, J. A. Co., Kinzie & Carpenter
Sundberg, Kropp & Co. (General Forgings), 1121 W 21st
Union Drop Forge Co., 69 Indiana
Vulcan Iron Works, 28 N Irving av
Western Steel Car & Foundry Co. (Car & Railroad. Works: Anniston, Ala., & Chicago, Ill.
Willard Sons & Bell Co. (Axles, Railroad, etc.), 98th & Erie av
Wishart-Burge Machine Works (Light & Heavy), 64 N Jefferson
EAST ST. LOUIS—St. Louis Steam Forge & Iron Works (R. R. & Steamboat)
HARVEY—Buda Foundry & Mfg. Co.
MOUNT VERNON—Mount Vernon Car Mfg. Co. (Car)
PEORIA—Armstrong, J. C. Machine & F'dry Co.

INDIANA.

ANDERSON—Anderson Forging Co. (Iron & Steel)
Indiana Harbor Standard Forging Co.
EVANSVILLE—Mesker, Geo. L. & Co. (Structural Iron)

FORT WAYNE—Bass Foundry & Machine Co. (Hammered Iron & Steel, also Car Axles.
INDIANAPOLIS—Inter-State Car Co. etc.)
INDIANA HARBOR—Standard Forgings Co.

IOWA.

DES MOINES—Des Moines Mfg. & Supply Co. (Heavy)

KENTUCKY.

LOUISVILLE—Drummond Mfg. Co. (Vehicles, Axles, etc.), 1228 W Main

LOUISIANA.

NEW ORLEANS—Connell, J. D., Iron Works Co. (Marine, etc.)
Connell, J. D. Iron Works Co. (Marine, etc.)
Schwartz Foundry Co. (Ltd.), 451 Howard av
Swoop, Julian M. (Light & Heavy), 913 Girod

MAINE.

PORTLAND—Portland Co. (Locomotive, Car, Engine, etc.)

MARYLAND.

BALTIMORE—National Supply Co. (Rod), 7 W Lombard
South Baltimore Steel Car & Foundry Co. (Iron & Steel, Railroad, etc.)
CUMBERLAND—Cumberland Steel Co.

MASSACHUSETTS.

BOSTON—Boston Forge Co. (Railroad, Marine & Electric), 340 Maverick, E. B.
Knapp, Jas. M. (Steel), 12 Bowker
McLauthlin, Geo. T. Co., 120 Fulton
CAMBRIDGE—Barbour-Stockwell Co. (Light & Heavy)
EVERETT—New England Bolt & Steel Co. (All Kinds)
GLOUCESTER—Cape Ann Anchor Works
LOWELL—Turner, John D.
QUINCY—Fore River Ship Building Co. (Heavy)
SOUTH EGREMONT—Dalzell Axle Co. (Carriage & Special)
SPRINGFIELD—Wason Mfg. Co. (For Iron, H. Steam Electric Railroads)
WORCESTER—Wyman & Gordon (All Kinds)

MICHIGAN.

BAY CITY—MacKINNON BOILER & Machine Co. (See adv. index, end of book)
DETROIT—ANDERSON FORGE & Machine Co. (Machine), 271 Guolin. (See adv. index, end of book)
Detroit Forging Co. (Carriage)
Detroit Steel Products Co. (Steel), E Grand Blvd & Chene
Great Lakes Engineering Works (Marine, etc.), 308 Atwater E
Hayes Mfg. Co., 458 Maybury
Lauer, Jno. Mach. Co., 108 St. Antoine
Michigan Bolt & Nut Works, ft Meldrum av
Western Malleable Steel Co.
JACKSON—Lewis Spring & Axle Co. (Axles, etc.)
MANISTEE—Manistee Iron Works Co. (Railroad & Heavy)
SAGINAW—Koebler Bros.
SAULT SAINT MARIE—Hickler Bros.

MISSOURI.

ST. LOUIS—American Car & Foundry Co. (Car, Railroad & Merchant), 915 Olive
Helmbacher Forge & Rolling Mill Co. (All Kinds for Railroad, Steamboat & Machinery)
Reuter-Jones Mfg. Co. (Mill Machinery, etc.)
Roth, B. Tool Co. (Light), 2122 Chouteau av

MONTANA.

BUTTE—Western Iron Works

NEBRASKA.

OMAHA—Paxton & Vierling Iron Works

NEW HAMPSHIRE.

LAKEPORT—Cole Mfg. Co. (Light & Heavy)

NEW JERSEY.

CAMDEN—Camden Forge Co. (Railway Forgings)
CHROME—Chrome Steel Works
HIGH BRIDGE—Taylor Iron & Steel Co. (Car & Locomotive Axles, Shafts, etc.)
HOBOKEN—Consolidated Iron Works
New York Switch & Crossing Co. (Railroad)
Union Iron Works (Light & Heavy)

JERSEY CITY—GRISCOM-SPENCER CO., Grand & Sussex. (See adv. index, end of book)

Smith, Theo. & Sons Co. (Heavy), ft. of
NEWARK—Currier, Cyrus & Sons Essex
Hewes & Phillips Iron Works
Strleby & Foote Co. (Carriage, Bicycle & Auto, etc.), 301 Ogden
PATERSON—Douglass, Edward

NEW YORK.

ALBANY—Townsend Furnace & Machine Shop Co.
AUBURN—Clapp, E. D. Mfg. Co. (Carriage, etc.)
BATAVIA—Baker Gun & Forging Co. (Gun)
Chapin, R. E. Mfg. Works (Galvanized)
BUFFALO—Brennan, Richard, 35 River
Delaney Forge & Iron Co., 300 Perry
General Drop Forge Co., 1738 Elmwood av
Lake Erie Engineering Works (Heavy)
Niagara Forged Steel Co. (Railroad & General)
Sizer Forge Co. (Locomotive, Iron & Steel Drawing Axles & Marine Engine)
Wurtz & Son (Railroad & Boiler), 23 Lloyd
CORTLAND—Cortland Forging Co. (Carriage)
HILLBURN—Ramapo Iron Works (Railroad)
NEWBURGH—Turl's, Jno. Sons (Inc.), etc.)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—BLISS, E. W. CO., 19 Adams, (See adv. index, end of book)
Columbia Engineering Works (Marine), c Pioneer & Imlay
Columbia Machine Works & Malleable Iron Co. (Light & Heavy), 269 Chestnut
Fulton Foundry & Machine Works (Machinery, etc.), 23 Furman
Gill, Phil. H. & Sons (Forging & Piping), Lorraine & Otsego
Hay-Budden Mfg. Co. (Dies, Weldless Rings, Spinning Chucks), 254 N Henry
McGibbon-Roy Eng. & Iron Working Co., 14 Columbia
MERRILL BROS. (See Maspeth, Borough of Queens, New York.) (See adv. index, end of book)
Williams, J. H. & Co., 150 Hamilton av,

Boroughs of Manhattan & Bronx.

NEW YORK—American Forge & Iron Co., 140 W 42d
American Car & Foundry Co. (Car, Railroad & Merchant), 165 Broadway
AMERICAN SPIRAL PIPE WKS., 50 Church. (See adv. index, end of book)
Baldwin Steel Co. (Steel Only), 133 Rende
Bethlehem Steel Co. (Heavy of all Kinds), 111 B'way. Works: S Bethlehem, Pa.
Cambria Steel Co. (of Johnstown, Pa.) Railroad, 71 B'way
Carbon Steel Co. (of Pittsburg, Pa.) (Axles, Crank Pins, Piston Rods, etc.), 30 Church
Carnegie Steel Co. (of Pittsburg, Pa.) (Steel only), 30 Church
Crucible Steel Co. of America (Steel Only of all Kinds), 2 Rector
DOBBIE FOUNDRY & MACHINE Co. (Heavy Plate & Structural Work), 82 Warren. Works: Niagara Falls, N. Y. (See adv. index, end of book)
G. & W. MFG. CO. (Machine, Marine, etc.), 26 Cortlandt. (See adv. index, end of book)
Gould Coupler Co. (Car Couplers, etc.), 345 5th av
Greenlle, Wyatt & Co. (Heavy & Light), 499 Water
GRISCOM-SPENCER CO., 90 West. (See adv. index, end of book)
McDougall & Potter Co. (Inc.), 606 W 55th
Midvale Steel Co. (of Phila., Pa.) (Locomotive, Car, Gun, etc.), of Steel Only, 225 5th av
NEWHALL CHAIN, FORGE & IRON Co., 90 West
Phila. Forge Co., 50 Church
Phoenix Iron Works Co., 135 Broadway,
Treadwell, M. H. Co., 90 West
Turl's, Jno. Sons (Inc.), 26 Cortlandt. Works: Newburgh, N. Y.
Watson, Thos., 551 W 35th
WHEELER, CHARLES CHILD, 113 B'way. (See adv. index, end of book)

Borough of Queens.

MASPETH—MERRILL BROS. (See adv. index, end of book)
(End of New York City)

NIAGARA FALLS—DOBBIE FOUNDRY & Machine Co. (Heavy Plate & Structural Work). (See adv. index, end of book)
Ramapo Iron Works (Railroad, etc.)
OGDENSBURG—Nash Bros. & Co. (Steam Forging)
SYRACUSE—Halconb Steel Co.
UNION—Union Forging Co.
UTICA—Mott Wheel Works (Carriage & Bike Wagon)

OHIO.

ALLIANCE—Transue & Williams Co. (General)
CINCINNATI—Block-Pollak Iron Co. (Railroad, etc.), Carriage
Queen City Forging Co. (for Carriage Builders, etc.), Dumont & Tenyson
Talbott, C. R. Co., Wiggins blk
Winkelman, Louis, & Co., 445 E Pearl
CLEVELAND—American Ship Building Co. (Heavy, Marine, etc.)
Champion Machine & Forging Co. (Upsetting Special Machine & Hammer Forgings)
Cleveland City Forge & Iron Co. (Heavy, etc.), Lakeside av, opp E 45th, N E
Cleveland Hardware Co. (Steel Forgings for Vehicles)
Cleveland Mach. & Mfg. Co., 4944 Hamilton av
CLEVELAND PUNCH & SHEAR Works Co. (See adv. index, end of book)
Crucible Steel Forge Co. (Dies & Die Tempering, Shaft Cranks, etc.), 5814 Carnegie av, S E
Dyson, Jos. & Sons (for Machine Tools, including Spindles, Shafts, Gear Blanks, Thrust Collars, etc.)
Globe Machine & Stamping Co., 3900 Hamilton av, N E
Horsburgh Forging Co., 5114 Hamilton
Interstate Engineering Co. (Heavy Structural)
Lake Erie Forge Co.
Ohio Forge Co. (Automobile, Machine, etc.)
Ohio Machine & Boiler Co., 1201 W 11th, N W
Otis Steel Co. (Steel Only, Locomotive, Car, etc.)
Park Drop Forge Co. (Open Hearth, Crucible & Alloy Steel)
COLUMBUS—Columbus Bolt Works (Carriage, etc.)
Columbus Forge & Iron Co. (Heavy & Light Forgings in Multiples)
Hayden-Corbett Chain Co. (Light & Heavy)
DAYTON—American Fence & Forge Co.
Plocher, Andrew
FREMONT—Herbrand Co. (Carriage, etc.)
NORWALK—Norwalk Iron & Steel Co.
SANDISKY—Klotz Machine Co. (Heavy)
TOLEDO—HEARTLEY MACHINE, VARIETY Iron & Tool Works (Punch & Die). (See adv. index, end of book)
Toledo Foundry & Machine Co., 202 Cherry
Toledo Machine & Tool Co.
YOUNGSTOWN—Youngstown Forge Co.

PENNSYLVANIA.

ALBUQUERQUE—Vulcan Crucible Steel Co.
BRADDOCK—Pittsburg Steel Shafting Co. (Forged Steel Power Transmission Goods)
BRAEBURN—Braeburn Steel Co. (Steel Only)
BURNHAM—Standard Steel Works (Steel Locomotive)
BUTLER—Kesselman & Co. (Heavy)
CATAWAUGA—Lehigh Car Wheel & Axle Works (Railroad, etc.)
CATAWISSA—Catawissa Car & Casting Co. (Car, etc.)
CHESTER—Chester Forging & Engineering Co. (Steel)
CONNELLSVILLE—Connellsville Machine & Car Co. (Light & Heavy)
CORRY—McINNES STEEL CO. (Ltd.) (Machinery & Tool Steel Shapes Forged to Order). (See adv. index, end of book)
EDDYSTONE—Tindel-Morris Co. (Steel only, Crankshaft & Finished Forging)
ELLWOOD CITY—Steel Car Forge Co. (Car & Locomotive)
Tindel-Morris Co. (Steel Only, Crankshafts & Finished Forgings)
ERIE—Erie Car Works (Car, etc.)
Erie Forge Co. (Ltd.) (Engine, Crankshafts, Connecting Rods, etc.)
ETNA—Etna Forge & Bolt Co.
HARRISBURG—Harrisburg Foundry & Machine Works
JOHNSTOWN—Cambria Steel Co. (Railroad)
Lorain Steel Co. (Steel)
LANCASTER—Penn Iron Co. (Car, etc.)

LEBANON—American Iron & Steel Mfg. Co.
Treadwell, M. H. Co. (Car, etc.)
McKEESPORT—Firth-Sterling Steel Co. (Crucible Open Hearth)
MECHANICSBURG—Wilcox, D. Mfg. Co. (Carriages & Special of all Kinds)
MILTON—Milton Mfg. Co. (Shafting, Crankshafts, etc.)
MONONGAHELA—Liggett Spring & Axle Co. (Buggy & Wagon Axles, etc.)
NEW CASTLE—New Castle Forge & Bolt Co. (Car Mine, Agricultural, etc.)
PHILADELPHIA—Cambria Steel Co. (Steel Car & General Heavy), Arcade bldg
Cramp, Wm. & Sons Ship & Engine Bldg. Co. (Marine, etc.)
Cresson, Geo. V. Co., Allegheny av W of 17th
GRISCOM-SPENCER CO., ft. Washington av. (See adv. index, end of book)
Hoopes & Townsend Co. (Car, etc.), 1330 Buttonwood
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Iroquois Iron Works (Steam Engine, Crank Shafts, Rods, etc.), Land Title bldg
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Morris Engineering Co. (Iron & Steel), 37th & Reed
National Bolt Works (Structural, etc.), 1630 N 9th
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Philadelphia Forge Co. (Steel, all Kinds).
Phoenix Iron Co., 410 Walnut
Standard Steel Works (Steel Locomotive)
Stortz, Jno. & Son (Small), 210 Vine
Tioga Steel & Iron Co., 52d & Gray's av (of all descriptions)
PHOENIXVILLE—Phoenix Iron Co. (Heavy)
PITTSBURG—Albree, Chester B. Iron Works, North Side
Allegheny Forging Co., Frick bldg.
Carbon Steel Co. (Axles, Crank Pins, Piston Rods, etc.), 32d & Smallman
Carnegie Steel Co. (Steel Only), Carnegie bldg
Carter Iron Co. (Hooks & Forgings for Chains, etc.)
Colonial Steel Co. (Rough or Rough Turned Crucible & Open Hearth Steel)
Columbia Steel & Shafting Co. (Shafts & Power Transmitting Appliances)
Crucible Steel Co. of America (Steel Only of all Kinds), Frick bldg
Damascus Tool Steel Co. (Dies & Shape Work)
Fort Pitt Forge Co. (Rods, Bolts, Rivets, etc.)
Heppenstall Forge & Knife Co. (Automobile, Gas Engine & Miscellaneous)
Jones & Laughlin Steel Co., 3d av & Try
Lanz, M. & Sons, 2907 Carson
McKay, Jas. & Co. (Light Forgings; also Railroad Forgings), Keenan bldg. Works.
McKees Rocks, Pa.

OIL WELL SUPPLY CO., 215
Water. (See adv. index, end of book)
Penna. Steel Co. (Medium & Heavy Steel).
Girard bldg
Pittsburg Forge & Iron Co. (Car, Locomotive & Marine)
Pittsburg Mfg. Co., 28th & Railroad
PITTSBURGH RIVET CO. (Rivets, Bolts, etc.), 38th & Junction R. R.
(See adv. index, end of book)
Pittsburg Screw & Bolt Co., 25th & Liberty
Pittsburg Steel Mfg. Co. (Wrought)
Scalfe, W. B. & Sons Co. (Structural)
Standard Chain Co. (Light for Railroads, etc.)
Steel Car Forge Co. (For Cars of all Kinds)

RANKIN—(See Pittsburg)
READING—American Iron & Steel Mfg. Co. (Car, etc.)
Carpenter Steel Co. (Steel & Gun)
Reading Iron Co. (Heavy Marine Engines, etc.)

SHAMOKIN—Mullen, Jno. & Son (Mine, etc.)
SOUTH BETHLEHEM—Bethlehem Steel Co. (Heavy of all Kinds)
STEELTON—Penna. Steel Co. (Heavy Steel)
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TITUSVILLE—Titusville Forge Co. (Light & Heavy, Shapes of Every Description & Roll Forgings, etc.)
WAYNESBORO—Frick Co.
WILKES-BARRE—American Forge & Iron Co.
Sheldon Axle Co. (Axles)
Vulcan Iron Works

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PROVIDENCE—Rhode Island Tool Co. (For the Trade)

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CHARLESTON—Charleston Iron Works (Mach. & Marine)
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TENNESSEE.

CHATTANOOGA—Chattanooga Car & Foundry Co.
KNOXVILLE—Knoxville Foundry & Machine Co. (Heavy)

TEXAS.

DALLAS—Mosher Mfg. Co. (Heavy)

VIRGINIA.

NORFOLK—Godwin, Thos. W. & Co. (Marine, etc.)
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Old Dominion Iron & Nail Works Co. (Buildings & Small Specials)
Richmond Forging Corporation
Tredegar Co. (Car & Machinery)

WASHINGTON.

SEATTLE—Jones, C. C. & Co. (R. R. & Marine)
Moran Co. (Marine, etc.)

WISCONSIN.

MILWAUKEE—Wisconsin Bridge & Iron Co., Pabst bldg

Forgings (Liquid Compound)

Bethlehem Steel Co., Bethlehem, Pa.

Forgings (Manganese Bronze)

American Manganese Bronze Co., 99 John, New York
Cramp, Wm. & Sons Ship & Engine Bldg. Co., Philadelphia, Pa.
Detroit Steel Products Co., E Grand boul, & Chene, Detroit, Mich.
General Drop Forge Co., 1738 Elmwood av., Buffalo, N. Y.
Wyman & Gordon Worchester, Mass.

Forgings (Nickel Steel)

American & British Mfg. Co., Bridgeport, Conn.
Anderson Forge & Machine Co., Detroit, Mich.
Bethlehem Steel Co., South Bethlehem, Pa., & 111 B'way, New York
Billings & Spencer Co., Hartford, Conn.
Cambria Forge Co., Johnstown, Pa.
Cambria Steel Co., Arcade bldg, Phila., Pa.
Carbon Steel Co., Pittsburg, Pa.
Carnegie Steel Co., Carnegie bldg., Pittsburg,
Columbus Forge & Iron Co., Columbus, O. Pa.
Crescent Forgings Co., Oakmont, Pa.
Crucible Steel Co. of America, Frick bldg., Pittsburg, Pa.
Detroit Steel Products Co., E Grand boul & Chene, Detroit, Mich.
Funk Engineering Co. (German Nickel Chrom Steel), 39 14th, Hoboken, N. J.
General Drop Forge Co., 1738 Elmwood av., Buffalo, N. Y.
Keystone Drop Forge Works, Chester, Pa.
Midvale Steel Co., Nicetown, Philadelphia, Pa.
Moore Drop Forge Co., Springfield, Mass.
Nickel Steel & Forge Co., Westinghouse bldg, Pittsburg, Pa.
Works, Carnegie, Pa.
PAGE, STORMS DROP FORGE CO., Springfield, Mass. (See adv. index, end of book)

Prosser, Thos. & Son, 15 Gold, New York
Richmond Forgings Corporation, Belle Isle, Richmond, Va.
Seward, The M. & Sons Co., New Haven, Conn.
Sizer Forge Co., Buffalo, N. Y.
Tindel-Morris Co., Eddystone, Pa., & Ellwood, City, Pa.
Tioga Steel & Iron Co., 52d and Gray's av
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Western Malleable Steel Co., Detroit, Mich.
Yuba Construction Co., Marysville, Cal.

Forgings (Seamless Steel)

BLISS, E. W. CO. (Bowls, Bottles & Special Shapes), 19 Adams, Brooklyn, N. Y.
(See adv. index, end of book)
Carpenter Steel Co., Reading, Pa.
Jones, E. J. Co., Arlington Heights, Mass.

Forgings (Telegraph & Telephone Pole)

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New Castle Forge & Bolt Co., New Castle, Pa.

Forks (Ballast)

American Fork & Hoe Co., Cleveland, O.
 American Shovel & Stamping Co., Lorain, O.
 Beall Bros. (Inc.), Alton, Ill.
 Hubbard & Co., Pittsburg, Pa.
 Iowa Farming Tool Co., Fort Madison, Ia.
 Union Fork & Hoe Co., Columbus, O.

Forks (Brake)

Dayton Malleable Iron Co. (The Kelly), Dayton, Ohio

Forks (Coke)

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 Ames Shovel & Tool Co., Ames bldg, Boston, Mass.
 Beall Bros. (Inc.), Alton, Ill.
 Brown, Hinman & Huntington Co., Memphis, Tenn.

HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)
 Union Fork & Hoe Co., Columbus, O.

Forks (Hand)

American Fork & Hoe Co. (Coal, Coke, Beet, Barley, Corn, Potato, Straw, Stone, Stable, Tanner, Manure, Header, Hay, Sluice, Spading, Vegetable, Scoop, etc.), Cleveland, Ohio

Brown, Hinman & Huntington Co. (Hand, Hay, Spading, Manure, etc.), Memphis, Tenn.
 Harriman Hoe & Tool Co. (Hay, Manure, Spading, "Razor Edge"), Harriman, Tenn.

Iowa Farming Tool Co., Ft. Madison, Iowa
 Peck, Clark & Co., Brookfield, Vt.

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 Jackson, Byron Machine Works, San Francisco, Cal.

Millwaukee Hay Tool Co., Milwaukee, Wis.

Myers, F. E. & Bro., Ashland, O.

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Porter, J. E. Co., Ottawa, Ill.

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Forks (Hay, Grapple & Harpoon)

(Read Explanation Following Names)

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Farrell, Jno ("Farrell" Grapple), Newton, N. J.

Goshen Mfg. Co. (Harpoon), Goshen, Ind.

Hunt, Helm, Ferris & Co. (Grapple & Harpoon), Harvard, Ill.

Louden Machinery Co. (Grapple & Harpoon), Fairfield, Iowa.

Milwaukee Hay Tool Co. (Grapple & Harpoon), Layton Park, Milwaukee, Wis.

Myers, F. E. & Bro. (Grapple & Harpoon), Ashland, O.

Ney Mfg. Co. (Grapple & Harpoon), Canton, O.

Ney, V. L. Co. (Harpoon), Canton, O.

Porter, J. E. Co. ("Porter's Acme" Grapple & Harpoon), Ottawa, Ill.

Reed Mfg. Co., Kalamazoo, Mich.

Ricker Mfg. Co. ("Ricker" Grapple & Harpoon), Rochester, N. Y.

Strickler Hay Tool Co. ("Strickler" Grapple & Harpoon), Jancsville, Wis.

Swineford, G. A. Co. ("Nellis" "Walker"), Canton, O.

Syracuse Chilled Plow Co. ("Syracuse" Grapple & Harpoon), Syracuse, N. Y.

U. S. Wind Engine & Pump Co. ("Noyes" Grapple & Harpoon), Batavia, Ill.

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 ("W. & B." Grapple & Harpoon), West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Forks (Hay, Lock Lever)

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Myers, F. E. & Bro. Ashland, O.

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Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.

Beall Bros. (Inc.), Alton, Ill.

Evansville Tool Works, Evansville, Ind.

Hubbard & Co., Pittsburg, Pa.

Iron City Tool Works (Steel), 32d & Small, Pittsburg, Pa.

Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.

Oliver Iron & Steel Co., Pittsburg, Pa.

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Union Drop Forge Co., Chicago, Ill.

Verona Tool Works (Steel), Verona, Pa., & Pittsburg, Pa.

Warwood Tool Co., Wheeling, W. Va.

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Oshkosh Logging Tool Co., Oshkosh, Wis.

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Morgan Spring Co., Worcester, Mass., & Struthers, O.

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Star Brass Works ("Kalamazoo"), Kalamazoo, Mich.

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Browne & Dowd Mfg. Co., Meriden, Conn.

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Hamill & Gillespie, 240 Front, New York
Salomon, L. A. Bro., 216 Pearl, New York

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Founders (Iron)

(See Machinists & Founders marked with a †)

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DOGGETT, STANLEY, 101 Beekman,
New York. (See adv. index, end of book)
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National Supply Co., 2928 Girard av, Phila., Pa.

N. Y. Sand Facing Co. (Facings, Sand, etc.), 610 Kent av, Brooklyn, N. Y.

Obermayer, S. Co. (Facing, etc.), 647 Evans, Cincinnati, O.

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Aikin-Lambert Co. (Gold), 19 Maiden la, New York

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Blair's Fountain Pen Co., 6 John, N. Y. City

Caw's Pen & Ink Co. (Fountain, Gold, Stylographic, Mfrs. of Caw's "Safety" Fountain Pen), 46 Vesey, New York City

Century Pen Co., Whitewater, Wis.

Colonial Fountain Pen Co., 882 Park av, Baltimore, Md.

Conklin Pen Co., 514 Jeff. av., Toledo, O.

Cross, A. F. (Gold), 53 Warren, Providence, R. I.

Diamond Point Pen Co. (Fountain, Gold, Stylographic, Gold Plated), 86 Fulton, N. Y. City

Eagle Pencil Co. (Fountain, Gold, Steel, Stylographic), 377 Broadway, N. Y. City

Eckel & Co. (Made in England), 39 Cortlandt, New York City

Faber, Eberhard (Gold, Fountain), 299 B'way, New York City

Faber, Dr., Self-Filling Pen Co., Toledo, O.

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Foley, Jno, Pen Co. (Fountain, Stylographic), 6 Astor House, N. Y. City

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Holland, Jno. Gold Pen Co. (Gold), Cincinnati, O.

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Parker Pen Co., Janesville, Wis.

Philadelphia Novelty Mfg. Co., 13th & Noble, Phila., Pa.

Sanford & Bennett, 51 Maiden la., N. Y. City

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Ullrich, J. & Co. (Fountain, Stylographic), 27 Thames, New York City

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 Douglas, John, Co. (Vitreous China), Cincinnati, O.
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 Mott, J. L., Iron Works (Porcelain, Porcelain Enameled, Vitreous China, etc.), 118 5th av, New York
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 Santas Mfg. Co. (Porcelain, Porcelain Enameled, etc.), 48 Union, Boston, Mass.
 Standard Sanitary Mfg. Co. (Porcelain Enameled), Pittsburg, Pa.
 Trenton Pottery Co. (Porcelain & Vitreous China Pedestal), Trenton, N. J.
 Walker Mfg. & Supply Co. (Porcelain), Detroit, Mich.
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 Becker, L. A. Co. ("20th Century"), 913 Halsted, Chicago, Ill.
 Bishop & Babcock Co., 49th & Hamilton av, Cleveland, O.
 Cox Brass Mfg. Co., Albany, N. Y.
 Green, Rob't M. & Sons, Phila., Pa.
 Herron Soda Fountain Co., 2525 State, Chicago, Ill.
 Lippincott, A. H. & F. H., Phila., Pa.
 Liquid Carbonic Co., Michigan & Wells, Chicago, Ill.
MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)
 Puffer Mfg. Co., Boston, Mass.
 Symonds & Poor Carbonator Co. ("Paragon"), Boston, Mass.
 Walrus Mfg. Co., Decatur, Ill.

*Fountains (Soda Water, Opal Onyx)

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

Fountains, Vases, Etc.

Badger Wire & Pottery Co., Milwaukee, Wis.
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
 Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
 Bethlehem Foundry & Machine Co. (Drinking Fountains, Iron Settees, etc.), Front, South Bethlehem, Pa.
BOLLES, J. E. IRON & WIRE WORKS.
 Detroit, Mich. (See adv. index, end of book)

Cahill Iron Works, Chattanooga, Tenn.
 Carr, Jas. W. (Iron Benches & Vases), Richmond, Va.
 Casey-Hedges Co., Chattanooga, Tenn.
CHAMPION IRON CO., Kenton, O.
 (See adv. index, end of book)
 Cheney, S. & Son (Vases Only), Manlius, N. Y.
CINCINNATI MFG. CO. (Vases, etc.).
 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
 Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
 Concord Foundry & Machine Co., Concord, N. H.
 Creswell, S. J. Iron Works Co., 23d & Cherry, Phila., Pa.
DARBY, EDW. & SONS, 233 Arch,
 Phila., Pa. (See adv. index, end of book)
 Eagle Iron Works (Inc.), 850 De Kalb av, Brooklyn, N. Y.
 Fiske, J. W. Iron Works, 56 Park pl, New York
 Globe Wire & Iron Works, Atkinson av, Milwaukee, Wis.
 Hennecke, C., Co. (Iron & Terra Cotta Vases), 280 B'way, Milwaukee, Wis.
 Hinderer, C. A. F., 1112 Camp, New Orleans, La.
 Hitzeroth, Edward, 3124 Market, Phila., Pa.
 Humphrey Machine Co., Keene, N. H.
 Illinois Iron & Bolt Co. (Vases, Hitting Posts, etc.), Carpenterville, Ill.
 Illinois Malleable Iron Co. (Drinking Fountains), 515 Diversy boul, Chicago, Ill.
 Jones, M. D. & Co., 73 Portland, Boston, Mass.
 Kohler, J. M. Sons Co. (Street Fountains), Sheboygan, Wis.
 Le Baron Foundry Co., Middleboro, Mass.
 McCrum-Howell Co. (Enameled Drinking Fountains), 103 Park av, New York
 McDonald Bros. (Vases, Settees, etc.), Columbus, O.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
 Middleby Oven Mfg. Co., 172 W Adams, Chicago, Ill.
 Mott, J. L., Iron Works, 118 5th av, New York
 Novelty Iron Works (Automatic Fountains for Stock), Sterling, Ill.
 Northwestern Foundry, Minneapolis, Minn.
 Nute, T. C. Foundry Co., Akron, O.
 Ornamental Iron & Wire Co., Portsmouth, Va.
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Smyser, Roger Co., York Pa., & Baltimore, Md.
 Southard-Robertson Co. (Cast Iron Lawn Vases), 257 Water, New York
 Stewart Iron Works Co., Covington, Ky.
 Stewart & Stevens Iron Works, 10th & Montgomery av, Phila., Pa.
 Swett, A. L., Iron Works (Vases, Fountains, etc.), Medina, N. Y.
TAYLOR & DEAN, Penn. av. & 25th, Pittsburg, Pa. (See adv. index, end of book)
VAN DORN IRON WORKS CO. (Iron Vases), 2685 N 79th, Cleveland, O. (See adv. index, end of book)
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
 Walbridge & Co., 292 Main, Buffalo, N. Y.
 Washington Iron Works, 419 Pratt, Buffalo, N. Y.
 Westervelt, A. B. & W. T., 102 Chambers, New York
WISCONSIN IRON & WIRE WORKS, 100 E Water, Milwaukee, Wis. (See adv. index, end of book)

Frames (Automobile Pressed Steel)

American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Globe Machine & Stamping Co., 3818 Hamilton av, Cleveland, O.
MULLINS, W. H. CO., Salem, O. (See adv. index, end of book)
 Parish Mfg. Co., Reading, Pa.
 Parish & Bingham Co., Cleveland, O.
 Smith, A. O. Co., Milwaukee, Wis.
 Standard Pressed Steel Co., N 20th & Clearfield, Philadelphia, Pa.
WORCESTER PRESSED STEEL CO.
 Worcester, Mass. (See adv. index, end of book)

Frames (Card Drawer)

Yale & Towne Mfg. Co., 9 Murray, New York
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Frames (Soapmakers')

Dopp, W. H., Co., Buffalo, N. Y.
 Hersey Mfg. Co., 314 W 2d, Boston, Mass.
 Houchlin-Alken Co., 37 53d, Brooklyn, N. Y.
 Nunning, Frank, & Son, 215 W 2d, Cincinnati, O.

Frames (Suit Case)

Independent Steel & Wire Co., Pittsburg, Pa.

*Frames (Wood Saw)

FAIRBANKS, MORSE & CO. (With Arbors), Franklin & Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)

*Frames & Cylinders (Soldering Tin Can)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Freezers (Ice Cream, Etc.)

Abbott Mfg. Co., Omaha, Neb.
 Alaska Freezer Co. ("Alaska"), Winchendon, Mass.
 Canton Continuous Freezer & Mfg. Co., Canton, O.
 Commercial Can & Mfg. Co. ("Ideal"), 107 N Lincoln, Chicago, Ill.
 Confectioners' & Bakers' Supply Co., 218 E Washington, Chicago, Ill.
 Consolidated Mfg. Co. (Glass), Hartford, Conn.
 Creamery Package Mfg. Co. (Disc, Continuous), Chicago, Ill.
 Dana Mfg. Co. (Peerless "Iceland," "Dana"), Cincinnati, O.
 Hilbert Machine Co. (Power), Cincinnati, O.
 Ingery Mfg. Co. (Power & Hand), 108 E Pearl, Cincinnati, O.
 Lang, Henry G., 22 N May, Chicago, Ill.
 Maag-Wahman Co., Baltimore, Md.
 Miller Pasteurizing Machine Co. ("Miller"), Canton, O.
 Miller-Tyson Co. ("Tyson" Brine), Canton, O.
 Mills, Thomas & Bro. ("Monitor"), 3108 N 4th, Phila., Pa.
 New England Enameling Co. ("Ideal" Automatic), Middletown, Conn.
NIAGARA FALLS METAL STAMPING
 Works, Niagara Falls, N. Y. (See adv. index, end of book)
 North Bros. Mfg. Co. ("Lightning Gem," "Blizzard"), Lehigh av & American, Phila., Pa.
 Packer, Chas. W. (Est. of) ("Standard"), Philadelphia, Pa.
 Reid-Edelmuth Mfg. Co. ("Champion"), 1719 9th, Brooklyn, N. Y.
 Richmond Cedar Works ("Snow-Ball," "Steel Frame"), Richmond, Va.
 Smith, H. D., & Co. ("Double-Deight"), Plantsville, Conn.
 Snow Flake Mfg. Co. ("Snow Flake"), 223 5th av, New York
 Sturges & Burn Mfg. Co., 251 S Green, Chicago, Ill.
 Thomas-Peter Co. ("Little Dandy," one and two quarts), Canton, Ohio
 Walker Ice Cream Co. ("Walker's I-X-L"), Warren, Pa.
 Walker & Pratt Mfg. Co., 33 Union, Boston, Mass.
 Watkins, Jas. Y. & Son (Inc.), 16 Catherine, New York
 White Mountain Freezer Co., Nashua, N. H.
 Whitney, F. E., 65 Sudbury, Boston, Mass.

French Ranges, Etc.

(See Cooking Apparatus)

Frictions (Paper)

Dodge Mfg. Co., Mishawaka, Ind.
 Rockwood Mfg. Co., Indianapolis, Ind.
WHEELER MFG. CO., 124 E. North av.,
 Chicago, Ill. (See adv. index, end of book)

Frogs (Cast Iron)

Corneil, J. B. & J. M. Co., 26th & 11th av, New York
 Irwin Foundry & Mine Car Co. (& Turnouts for Mine Tracks), Irwin, Pa.

Frogs (Overhead Trolley)

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Frogs (Replacing)

(See Car Replacers)

Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg, Chicago, Ill.
Morris, Herbert, Betz bldg, Phila., Pa.
Tilden, B. E. Co., Manhattan bldg, Chicago, Ill.

Frogs (Spring Rail)

Cleveland Frog & Crossing Co. ("The Lucas"), Cleveland, O.
Elliott Frog & Switch Co., East St. Louis, Ill.
INDIANAPOLIS SWITCH & FROG Co., Springfield, O.
Wharton, Wm., Jr., & Co. (Inc.), 25th & Washington av, Phila., Pa.

Frogs, Switches & Crossings

Ajax Forge Co., 138 Jackson houl, Chicago, Ill.
Allentown Rolling Mills, Allentown, Pa.
American Frog & Switch Co., Hamilton, O.
ATLAS CAR & MFG. CO., THE, 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)
Barbour-Stockwell Co. (Street Ry.), Cambridge, Mass.
Barnum & Richardson Mfg. Co., Lime Rock, Conn.
Buda Foundry & Mfg. Co., Harvey, Ill.
CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)
CARLIN'S, THOS. SONS CO. (For Industrial Railways), 1610 River av (North Side), Pittsburgh, Pa. (See adv. index, end of book)
Chicago Crossing Co., Monadnock blk, Chicago, Ill.
Cincinnati Frog & Switch Co. (For Standard & Narrow Gauge Tracks), Cincinnati, O.
Cleveland Frog & Crossing Co. ("The Lucas"), Cleveland, O.
Conley Frog & Switch Co., Memphis, Tenn.
Elliott Frog & Switch Co. (Spring Frogs, Split Switches, & Switch Stands, etc.), East St. Louis, Ill.
FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
Falk Company, ft 30th, Milwaukee, Wis.
Frog, Switch & Mfg. Co., Carlisle, Pa.
Green's Car Wheel Mfg. Co., St. Louis, Mo.
Indianapolis Switch & Frog Co., Springfield, Ohio
Kilhy Frog & Switch Co., Birmingham, Ala.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Kronk, A. A. & Co., 52 Law av., Chicago, Ill.
Loraln Steel Co., Penna. bldg, Phila., Pa.
MARYLAND EQUIPMENT & SUPPLY Co. (New & Second Hand), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Morden Frog & Crossing Works ("Union"), Commercial Nat'l Bank bldg, Chicago, Ill.
New York Switch & Crossing Co., 15th & Madison, Hoboken, N. J.
Penna. Steel Co., Girard bldg, Philadelphia, Pa.
Pettibone, Muliken & Co. ("Strom" Clamp Frogs & "Spring Rail" Frogs, etc.), 204 Dearborn, Chicago, Ill.
Railroad Supply Co., Bedford bldg., Chicago, Ill.
Ramapo Iron Works ("MacPherson" Crossings, Split Switches, Spring & Rigid Frogs, etc.), Hillburn, N. Y.
Weir Frog Co., Cincinnati, O.
Wharton, Wm., Jr., & Co. (Inc.), 25th & Wash'n av, Phila., Pa.
White Mfg. Co. (Crossings & Signals), 556 W 34th, New York

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
Wonham, Magor & Sanger, 30 Church, New York

Frogs (Wrecking)

(See Replacers, Car)

***Frost Proof Pipe Boxing (Wooden Sectional for Exposed Water Pipes)**

BALTIMORE COOPERAGE CO., THE, cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

Fuel Economizers

Albany Industrial Co. ("Chapman"), Albany, N. Y.
American Stoker Co., Erie, Pa.
BARTLETT, C. O. & SNOW CO., Cleveland, O. (See adv. index, end of book)
Broomell, Schmltd & Steacy Co. (Inc.) ("American"), York, Pa.
Green Fuel Economizer Co., General Office & Works: Mattewan, N. Y., & 90 West, New York
GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av, Philadelphia, Pa. (See adv. index & branch offices, end of book)
Keyes, F. E. & Son, 20 Broad, New York
Parker Boiler Co., Pennsylvania bldg, Philadelphia, Pa.
Parsons Engineering Co. ("Parsons"), Arcade bldg, Phila., Pa.
Sturtevant, B. F. Co., Hyde Park, Mass.
Sullivan Fuel Economizer Co., 25 W 42d, New York
Thacher, Geo. H. & Co. ("Coe" Improved Combustion & Draft System), Albany, N. Y.
Union Standard Furnace Co., 309 B'way, New York

Fuel Oil & Gas Burning Appliances

(See also Burners, Fuel Oil)

Bennett's Petroleum Burner Co. ("Bennett's" New Process Pneumatic System), San Francisco, Cal.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Best, W. N. American Caloric Co., 11 B'way, New York
Harvey, Elbert A., 50 Church, New York
Hauck Mfg. Co. (Oil Only), 140 Cedar, New York
Johnson, S. T. Co. ("Johnson's Liquid Fuel, Oil Low Pressure Air System), San Francisco, Cal.
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
National Equipment Co., 211 N 7th, St. Louis, Mo.
National Supply Co. (Billow System for Fuel Oil), 315 Dearborn, Chicago, Ill.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Sharon, Pa., & Farmers' Bank bldg, Pa. (See adv. index, end of book)
Rockwell Furnace Co., 26 Cortlandt, N. Y.
Schutte & Koerting Co. ("Koerting"), 1251 N 12th, Phila., Pa.
TATE, JONES & CO. (Inc.) (& Gas), Empire bldg, Pittsburg, Pa. (See adv. index, end of book)
Witt, G. E., Co. (Inc.) (Specialty Fuel Oil), San Francisco, Cal.

Fuel Oil Pumping Systems

National Supply Co. (Billow Systems), 315 Dearborn, Chicago, Ill.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Fuller Board

(See Press Board)

Fuller's Earth

DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
Hammill & Gillespie, 240 Front, New York
Lester Clay Co., Jacksonville, Fla.
Olson, John, Benton, Ark.
Owl Commercial Co., 1181 B'way, New York
Salomon, L. A. & Bro., 216 Pearl, New York
Southern Filters Earth Co., Warren, Pa.
Whittaker, W. H., 245 Front, New York

Fullers (Top & Bottom)

ANDERSON FORGE & MACHINE CO., 271 Guolin, Detroit, Mich. (See adv. index, end of book)
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.) (Blacksmiths), Alton, Ill.
Champion Tool Co., Meadville, Pa.
Evansville Tool Works, Evansville, Ind.
Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Fumigators

Wotherspoon, Jas. R. ("Eureka," "Perfection"), 238 N Front, Philadelphia, Pa.

***Funnels for Injection & Oil Overflow**

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Funnels (Gasoline)

Auto-Improvement Co. ("Ever Ready"), 304 Hudson, New York
Cambria Forge Co. Johnstown, Pa.
Dover Stamping & Mfg. Co. ("Dover" Motor Boat & Auto), Cambridge, Mass.
Duplex Folding Pail Co., 114 E 14th, New York
Frost Mfg. Co., Kenosha, Wis.
Hussey Drop Forge & Mfg. Co., Axtell opp. Osage, Cleveland, O.
Stevens & Co. ("Breeze"), 99 Chambers, New York
Tallaferro, W. T., 258 B'way, New York
Vogel, Wm. & Bros. (Automobile), 37 S 9th, Brooklyn, N. Y.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Furnace Feeders (Automatic)

Empire Blower & Pipe Co., Rochester, N. Y.
Sterling Blower & Pipe Co., Hartford, Conn.

Furnace Pipe & Fittings

Bartlett, J. C., 632 Liberty av, Pittsburg, Pa., & West Newton, Pa.
Excelsior Steel Furnace Co., 38 W Monroe, Chicago, Ill.
Meyer, F., & Bro. Co. ("Improved Handy"), Peoria, Ill.
Perfection Furnace Pipe Co., Toledo, O.
PITTSBURGH GAGE & SUPPLY CO. (Blast Furnace, etc.), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO. (Blast Furnace, etc.), 26th & A. V. R'y, Pittsburgh, Pa. (See adv. index, end of book)
Safety Furnace Pipe Co., 13 E Atwater, Detroit, Mich.
Stockhoff Supply Co. (Perfection), 107 N Main, St. Louis, Mo.
Wright Mfg. Co., 780 State, New Haven, Conn.
XXth Century Heating & Ventilating Co., Akron, O.

Furnaces (Agricultural)

Donaldson Bros., Mt. Clemens, Mich.

Furnaces (Annealing & Case Hardening)

AMERICAN GAS FURNACE CO. (Gas), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
American Stoker Co., 11 B'way, New York
Bates Machine Co., Joliet, Ill.
Best, W. N. American Caloric Co., 11 B'way, New York
Braun, F. W. (Annealing, Hardening, Tempering & Case Hardening), Los Angeles, Bristol, Wm. H., 45 Vesey, New York Cal.
Brown & Sharpe Mfg. Co., Providence, R. I.
CHICAGO FLEXIBLE SHAFT CO. ("Stewart," Gas Blast), La Salle av, Chicago, Ill. (See adv. index & branch offices, end of book)
Crosby Co. (Case Hardening), 171-189 Pratt, Buffalo, N. Y.
Engelhard, Chas. ("Heraens," Steel Hardening), 30 Church, New York
Gilbert & Barker Mfg. Co., Springfield, Mass.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

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INC.

Pittsburgh, Pa.

Kenworthy Engineering Co., Waterbury, Conn.
McClure, G. W., Son & Co., Bessemer bldg.,
Pittsburg, Pa.
MacKenzie's, Duncan Sons Co., Trenton, N. J.
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of
book)

Manchester, C. B. Gas Furnace Co. (Gas), 60
Friendship, Providence, R. I.
Morgan Construction Co., Worcester, Mass.
Railway Materials Co. (For Boiler Shop, Oil as
Fuel), Old Colony bldg. Chicago, Ill.
Reed, Chas. J., 23d & Hamilton, Phila., Pa.
Rockwell Furnace Co., 26 Cortlandt, N. Y.
Reuleaux, Josef & Co., Second National Bank
bldg., Pittsburg, Pa.
STRONG, CARLISLE & HAMMOND CO.
("Frankfort" Aluminum), 336 Frankfort
av., N. W., Cleveland, O. (See adv. index,
end of book)

TATE, JONES & CO. (Inc.) ("Kirkwood")
Oil & Gas for Fuel, Empire bldg., Pitts-
burg, Pa. (See adv. index, end of book)
U. S. Gas Furnace Co. (Gas Blast), 159
Aborn, Providence, R. I.
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.
Westmacott Gas Furnace Co. (Gas Blast), 159
Orange, Providence, R. I.
Witteman, A. P., & Co. ("Gantt" Coke),
1223 Spring, Philadelphia, Pa.

Furnaces (Asphalt, Pitch & Tar)

(See Heaters, Asphalt, Pitch & Tar)

Furnaces (Assayers' & Bullion)

AMERICAN GAS FURNACE CO., 24
John, New York, & Elizabeth, N. J. (See
adv. index, end of book)
Braun, F. W., Los Angeles, Cal.
Calkins Co., Los Angeles, Cal.
Denver Fire Clay Co. (Case), Denver, Col.
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of
book)

Furnaces (Babbitt Melting)

AMERICAN GAS FURNACE CO. (Gas),
24 John, New York, & Elizabeth, N. J. (See
adv. index, end of book)
Best, W. N. American Calorific Co., 11 B'way,
New York
Davis, W. P., Machine Co. ("Vesuvius"), Roch-
ester, N. Y.
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of
book)
STRONG, CARLISLE & HAMMOND CO.
("Frankfort"), 336-344 Frankfort av., N.
W., Cleveland, O. (See adv. index, end of
book)
TATE, JONES & CO. (Inc.), Empire bldg.,
Pittsburg, Pa. (See adv. index, end of
book)
U. S. Gas Furnace Co., 159 Aborn, Provid-
ence, R. I.
Westmacott Gas Furnace Co., 159 Orange,
Providence, R. I.

Furnaces (Bagasse)

(Is Classified in its order under Sugar Machin-
ery in the Letter S)

Furnaces (Billet Heating)

Best, W. N. American Calorific Co., 11 B'way,
New York
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of
book)
Morgan Construction Co., Worcester, Mass.
Rockwell Furnace Co. (Oil, Coal or Gas), 26
Cortlandt, New York

Furnaces (Brass & Copper Melt- ing)

Barnett, Oscar Foundry Co., Newark, N. J.
Best, W. N. American Calorific Co., 11 B'way,
New York
Brass Founders' Supply Co. (Rotary), Newark,
N. J.
Byram & Co. (Inc.), 435 Guoin, Detroit, Mich.
Fisher, Alfred, 103 Monroe, Chicago, Ill.
Hawley Down Draft Furnace Co. ("Schwartz"),
Superior & Townsend, Chicago, Ill.
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Johnson Service Co. ("Johnsons"), Milwaukee,
Wis.

Littleford Bros., 453 E. Pearl, Cincinnati, O.
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of
book)

Manchester, C. B. Gas Furnace Co. (Gas), 60
Friendship, Providence, R. I.
Monarch Engineering & Mfg. Co. ("Steele-
Harvey" Oil), Baltimore, Md.
Obermayer, S. Co., 647 Evans, Cincinnati, O.
OSBORN MFG. CO., 5401 Hamilton
av., N. E., Cleveland, O. (See adv. index,
end of book)

Rockwell Furnace Co., 26 Cortlandt, New
York
Rockwell, W. S. Co. (Rockwell, Oil or Gas
Fuel), 50 Church, New York
Sheriff Mfg. Co., 124 Barclay, Milwaukee, Wis.
SMITH, J. D. FOUNDRY SUPPLY CO.,
1846 Scranton rd., N. W., Cleveland, O. (See
adv. index, end of book)

STRONG, CARLISLE & HAMMOND CO.
("Frankfort"), 336-344 Frankfort av., N.
W., Cleveland, O. (See adv. index, end of
book)

TATE, JONES & CO. (Inc.) ("Schwartz")
with "Kirkwood" Fuel Oil System, Em-
pire bldg., Pittsburg, Pa. (See adv. index,
end of book)

U. S. Gas Furnace Co. (Gas Blast), 159
Aborn, Providence, R. I.
Westmacott Gas Furnace Co. (Gas Blast), 159
Orange, Providence, R. I.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

Furnaces (Brazing)

Best, W. N. American Calorific Co., 11 B'way,
New York
CHICAGO FLEXIBLE SHAFT CO.
("Stewart" Crucible), La Salle av & Ontario,
Chicago, Ill. (See adv. index & branch
offices, end of book)

Globe Machine & Stamping Co., 3868 Hamil-
ton av., Cleveland, O.
Kenworthy Engineering Co., Waterbury, Conn.
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of
book)

STRONG, CARLISLE & HAMMOND CO.
("Frankfort"), 336-344 Frankfort av., N.
W., Cleveland, O. (See adv. index, end of
book)

Furnaces (Case Hardening)

(See Furnaces, Annealing & Case Hardening)

Furnaces (Core Baking)

(See Ovens, Core Baking)

Furnaces (Corrugated)

Continental Iron Works (For Land & Marine
Boilers), West & Calyer, Brooklyn, N. Y.

Furnaces (Crucible)

Best, W. N. American Calorific Co., 11 B'way,
New York
CHICAGO FLEXIBLE SHAFT CO.
("Stewart" Gas Blast), La Salle av & On-
tario, Chicago, Ill. (See adv. index & branch
offices, end of book)

Engelhard, Chas. ("Heraeus"), 39 Cortlandt,
New York
Fisher, Alfred, 103 W. Monroe, Chicago, Ill.

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Kroeschell Bros. Co. ("Kroeschell-Schwartz")
Gyrating Flame for Non-Ferrous Metals),
31 Erie, Chicago, Ill.

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of
book)

Monarch Engineering & Mfg. Co. ("Steele-
Harvey" Tilting Metal), Curtis Bay, Bal-
timore, Md.

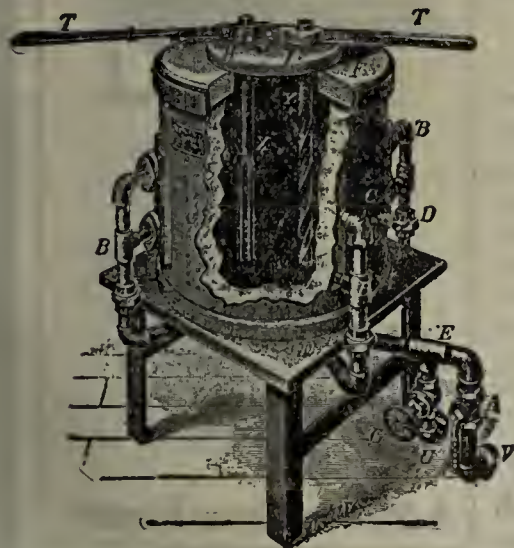
Rockwell Furnace Co. (Brass), 26 Cortlandt,
New York
Rockwell, W. S. Co. ("Rockwell" Oil or Fuel),
50 Church, New York

STRONG, CARLISLE & HAMMOND CO.
("Frankfort"), 336-344 Frankfort av., N.
W., Cleveland, O. (See adv. index, end of
book)

TATE, JONES & CO. (Inc.), Empire bldg.,
Pittsburg, Pa. (See adv. index, end of
book)

Turner Brass Works (Gasoline), Sycamore, Ill.
Union Drop Forge Co., Chicago, Ill.

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Engelhard, Chas. ("Heraeus" Muffle), 39 Cortlandt, New York
Stupakoff, S. H. (For Experimental Work), 545 Turret, Pittsburg, Pa.
Wolff, R. H. ("Heroult"), 445 B'way, New York

Furnaces (Electricians')

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AMERICAN GAS FURNACE CO. (Gas; Also Assaying), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
TATE, JONES & CO. (Inc.) Empire bldg., Pittsburg, Pa. (See adv. index, end of book)
STRONG, CARLISLE & HAMMOND CO. ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

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(See Evaporators)

(Also See Exaporators, Multiple Effects in Sugar Machinery)

Furnaces (Flue Welding)

(See also Flue, Welding Machines)

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Railway Materials Co. ("Ferguson," Oil as Fuel), Old Colony bldg, Chicago, Ill.
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U. S. Gas Furnace Co. (Gas Blast), 159 Aborn, Providence, R. I.
Westmacott Gas Furnace Co. (Gas Blast), 159 Orange, Providence, R. I.

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Gilbert & Barker Mfg. Co., Springfield, Mass.
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
Russell Economical Furnace Co., 40 Quincy, Chicago, Ill.

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GAS POWER CO., 2 Rector, New York. (See adv. index, end of book)
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Learn & Brindle ("Knoderer"), Columbus, O.
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Ohio Foundry Co., Dayton, O.
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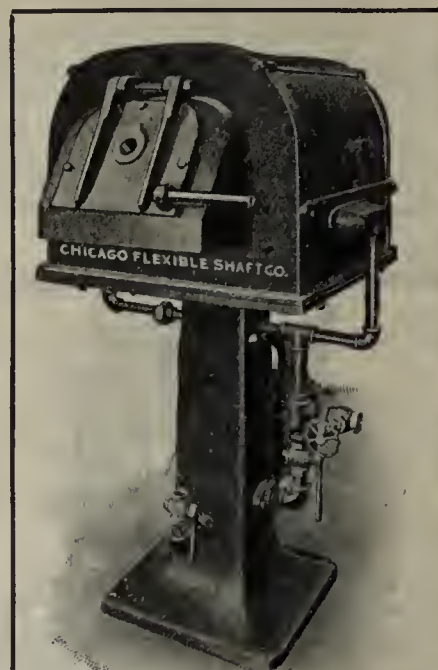
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 Haines, Jones & Cadbury Co., 1128 Ridge av, Phila., Pa.
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 Jacobson Machine Co. ("Superior"), Warren, Pa.
 Knapp Mfg. Co., 20 Warren, New York
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 Meyer Foundry & Machine Co. ("Lundy" Soldering), South Bend, Ind.
 Murray, John A. ("Haggerty"), 625 6th av, New York
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 Phillips & Harmon ("Warrior," "Powhattan," "Hiawatha"), Northville, Mich.
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 Turner Brass Works ("Bonanza," "Eureka," "Pioneer," "Silent Friend"), Sycamore, Ill.
 West Mfg. Co., Buffalo, N. Y.
 Wolff, L. Mfg. Co. ("Duro"), 117 W Lake, Chicago, Ill.

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 Murphy, M. L., 426 4th av, Pittsburg, Pa.
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 McClure, G. W. Son & Co., Beesemer bldg., Pittsburg, Pa.
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 Philadelphia Roll & Machine Co., S 23d & Washington av, Phila., Pa.
 Reuleaux, Josef & Co., Second National Bank bldg., Pittsburg, Pa.
 Russell Economical Furnace Co. (Oil), 40 Quincy, Chicago, Ill.
STRONG, CARLISLE & HAMMOND Co. ("Frankfort"), 336-344 Frankfort av, N W, Cleveland, O. (See adv. index, end of book)
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 Williams, White & Co., Moline, Ill.

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 Krieger Tool & Mfg. Co. ("Krieger" for Cold Blast Hardening), 479 N Park, Chicago, Ill.
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 NORWICH—McCrum-Howell Co. ("Richmond"), Main Office, New York
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 STAMFORD—Stamford Foundry Co.

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 Boynton Furnace Co., 147 Lake
 Cox, Abram Stove Co., 19 W Lake
 Excelsior Steel Furnace Co., 40 W Monroe
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 Hamilton, F. A. & Co., 241 E 43d
 Hart & Crouse Co., 79 Lake
 Hess Warming & Ventilating Co., 131 La Salle
 Illinois Heater & Mfg. Co., 3945 Wentworth av

International Heater Co., 48 Dearborn
 Magee Furnace Co., 86 Lake
 McKenzie Furnace Co., 84 Van Buren
 McMillan, Jas., & Co., 79 Market
 Mellish, F. & Co., 121 E Kinzie
 Olson, A. J. & Co., 205 E Lake
 Ralt, W. S. & Co., 213 Lake
 Reynolds, B. F. & Co. (Inc.), 46 Dearborn
 Richardson & Boynton Co., 20 Lake
 Robinson Furnace Co., 105 Lake
 Servoss Furnace Co., 135 Lake
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Thatcher Furnace Co., 154 E Lake
 Van Evera & Lewis Mfg. Co., 104 W Lake
 Water Arch Furnace Co., 164 Dearborn
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MOLINE—Tyrrell, B. E. & Co.
PEORIA—Meyer Furnace Co.
 Western Stove Works ("Pleasant House")
QUINCY—Gem City Stove Mfg. Co. ("German")

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 Gage & Rybolt, 632 Mass. av
 Johnson, W. H. & Son Co., 945 Fort Wayne av
 Kruse & Dewenter, 427 E Washington
 Mast, Geo. J. Heating Co., 643 Mass av
 Thiele, L. C., 105 S Meridian
 Troy Bros., 142 S Delaware

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 Green Foundry & Furnace Works
DUBUQUE—Smedley Steam Pump Co.
MARSHALLTOWN—Lennox Furnace Co., (Hard & Soft Coal & Wood)
WATERLOO—Bovee Grinder & Furnace Works ("Bovee," Compound Radiator Furnace)

KANSAS.

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MAINE.

BANGOR—Clement & Brown Mfg. Co., 101 Broad
 Wood & Bishop Co.
PORTLAND—Portland Stove Foundry Co.

MARYLAND.

BALTIMORE—Bartlett, Hayward & Co., Pratt, Scott & McHenry
 Bibb, B. C. Stove Co., 107 Light
 Heath, Chas. C. & Co., 14 N Howard
 Rapid Transit Stove & Furnace Co., 628 N Eutaw
 Sexton, S. B. Stove & Mfg. Co., 7 S Gay
 Sheppard, Isaac A. & Co., Eastern av & Chester

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BOSTON—Boston Furnace Co., 6 Portland
 Carpenter, Cyrus & Co., 44 Hanover
 Chilson Furnace Co., 88 Washington
 Chubbuck Furnace Co., 1892 Washington
 Clark, Henry N. Co., 56 Union
 Felton-Turner Heating Co., 32 Warren, Rox.
 Hertig Furnace Co., 1342 Columbus av
 Highland Foundry Co., 1341 Columbus av
 Howes, S. M. Co., 40 Union
 International Heater Co., 90 Sudbury
 Kohler Furnace & Steam Heating Co., 1342 Columbus av, Rox.
 Magee Furnace Co., 38 Union
 Ridgway Furnace Co., 6 Portland
 Rodday, Robt. J. & Co., 138 Harrison av
 Smith & Anthony Co., 48 Union
 Walker, Robt. L. Furnace Co., 45 Kilby
 Walker & Pratt Mfg. Co., 31 Union
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MANSFIELD—Chilson Furnace Co.
METHUEN—Sanborn Furnace Co.
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WINCHENDON—Hill & Bosley

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 Ideal Furnace Co., 66 State
 Michigan Stove Co., 1022 Jeff av
 Peninsular Stove Co., 10th & W Fort
 Standard Foundry Co., 24 Chene
DOWAGIAC—Beckwith, P. D. (Est. of), Round Oak)
GRAND RAPIDS—Grand Rapids Furnace Co.
MARSHALL—Marshall Furnace Co.
MONROE—Monroe Foundry & Furnace Co.
PETOSKEY—Burnett Foundry & Machine Co., Ltd.
TECUMSEH—Century Post Co.

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Wolterstorff & Haskell Range & Furnace
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MISSOURI.

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MOBERLY—Selby, W. H. ("Ideal")
ST. LOUIS—American Furnace Co., 1911
Brinkmann, J. H. & Sons Pine st
Dooley, Jno. E. Furnace, 1000 N Vandeventer av
Halpin, Jas. Mfg. Co. ("Fire King" &
"Peace Maker"), 1513 Chestnut
Haynes-Laugenberg Mfg. Co. ("Front
Ranks" Steel), 4057 Forest Park boul
Star Furnace Co., 3941 Forest Park boul
Tipton & Mackey Mfg. Co., 4952 Easton av
Wrought Iron Range Co., 1901 Wash'n av

NEW JERSEY.

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NEWARK—Thatcher Furnace Co., 42 St. Francis

NEW YORK.

CORNING—Corning Mfg. Co. ("The Victor")
FULTON—Emery, G. J. ("Intense")
GENEVA—Summit Foundry Co.
NEW YORK—Abendroth Bros., 109 Beekman
Barstow Stove Co., 210 Water
Boynton Furnace Co., 207 Water
Crane, W. M. Co., 16 W. 32d
Fuller & Warren Co., 256 Water
Graft Furnace Co., 208 Water
Harvey Furnace Co., 220 W 26th
James & Kirtland, 725 6th av
McCrum-Howell Co. ("Richmond"), 103 Park av
Mott, J. L. Iron Works, 118 5th av
Nugent, Thos., 223 E 80th
Richardson & Boynton Co., 234 Water
Richardson-Morgan, Co., 239 Water
Sheppard, Isaac A. & Co., 220 Water
Southard-Robertson Co. ("Magnetic"), 257 Water
Thatcher Furnace Co., 110 Beekman
Union Stove Works, 70 Beekman
Wear, John A. & Son, 206 E. 29th
PEEKSKILL—N. Y. Stove Works
Union Stove Works
ROCHESTER—Co-Operative Foundry Co.
Enterprise Foundry Co. ("Ariel"), 48 Olean
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Syracuse Heater Co.
Syracuse Stove Works ("Kernan-Welcome")
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Fuller & Warren Co.
Henderson, Frank
UTICA—Giblin & Co.
Hart & Crouse Co.
International Heater Co.
Utica Heater Co.

OHIO.

AKRON—May & Flebeger Co.
Taplin-Rice-Clerkin Co. ("Climax")
XXth Century Heating & Ventilating Co.
("XXth Century")
ASHTABULA—Barber Mfg. Co.
CANTON—Bonnot Co.
CANTON FOUNDRY & MACHINE
Co. ("Imperial" Hot Air Blast) (See adv.
Index, end of book)
CINCINNATI—Grossius, John Furnace Co.,
409 E 8th
Grossius, John Furnace Co., 409 E 8th
Lotze's, A. Sons & Co., 8th & B'way
Miller, Wm. Range & Furnace Co., 125 E 5th
Peck-Williamson Heating & Ventilating Co.,
339 W 5th
CLEVELAND—Bennett Furnace Co. ("Cleveland,"
"Euclid," "Ohio"), 5801 Euclid av
Forest City Foundry & Mfg. Co. ("Monarch,"
"Imperial," "Niagara" Hard Coal
& Coke)
Mannen & Esterly Co. (Manest Combination
Coal & Gas), 2247 St. Clair
Smith, W. A. & Co., 625 Champlain
COLUMBUS—Columbus Heating & Ventilating
Co. ("Columbia," "U. S.," "Imperial,"
"Ohio," "O. K.," Coal of Gas, for Schools,
Churches, etc.), 425 W Town
Schreyer, G. ("O. K.," Gas), 210 W Broad
CRESTLINE—Schill Bros. Co.
DAYTON—National Hot Air Furnace Co. ("National
Instler")
ELYRIA—Fox Furnace Co.
MANFIELD—Baxter Stove Co.
MARTINS FERRY—Stanton Heater Co. ("Stanton"
Seamless)

MASSILLON—Hess Snyder Co. ("Boomer")
NEWARK—Slumpson Heater Co.
SPRINGFIELD—Patric Furnace Co., 17 W
Progress Furnace Co. Wash'n
STUBENVILLE—Sharp, W. L. & Son
TOLEDO—Curran & Flith
YOUNGSTOWN—Youngstown Furnace & Supply
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Schafer Furnace Co.

OREGON.

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DANVILLE—Danville Stove & Mfg. Co.
"FIRE"—Patterson & Stirling
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Mount Penn Stove Works, 111 N 2d
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Reynolds, J. & Son, 1613 Filbert
Sheppard, Isaac A. & Co. ("Paragon"), 1801 N 4th
Spear, Jas. Stove & Heating Co., 1014 Market
Thomas-Roberts-Stevenson Co., 3d & McKean
Tubular Heating & Ventilating Co. (Jupiter), 228 Quarry
PITTSBURGH—Pittston Stove Co. ("Pittston" &
"Happy Thought")
POTTSTOWN—March-Brownback Stove Co.
("Crown")
QUAKERTOWN—Roberts, Winner & Co.
READING—Geissler, H. C. & Sons
Mount Penn Stove Works
Rending Stove Works ("Sunshine")
ROYERSFORD—Buckwater Stove Co.
Floyd-Wells Co. ("Bengal")
Grunder Stove Co.
SPRING CITY—Keystone Stove Foundry
Yeager-Hunter Spring City Stove Works
UNIONTOWN—McCrum-Howell Co. ("Richmond"), Main Office, New York
WARREN—Schellhammer & Sons (Gas for Fuel)

RHODE ISLAND.

PROVIDENCE—Barstow Stove Co.

WEST VIRGINIA.

WELLSBURG—Wellsburg Heating & Foundry
Co. ("X. L. O.")

WISCONSIN.

MILWAUKEE—Brand Stove Co., 295 6th
Fuller-Warren Co., 32d & Wright
Ludeman, A. J. & Hoverson Co., 348 Florida
Milwaukee Stove & Heater Co., 100 W
Water
Mueller, L. J., Furnace Co., 107 Reed
Schwab, R. J. Sons Co., 271 Clinton
NEENAH—Bergstrom Co.

Furnaces (Jewelers')

U. S. Gas Furnace Co. (Gas Blast), 159
Aborn, Providence, R. I.
Westmacott Gas Furnace Co. (Gas Blast), 159
Orange, Providence, R. I.

Furnaces (Kerosene)

Barnes Tool Co. ("Archambault"), New
Haven, Conn.
BERNZ, OTTO ("Always Reliable"),
S 13th & S Orange, Newark, N. J. (See
adv. index, end of book)
Mack, Thos. A. Mfg. Co. ("Khotal"), Jersey
City, N. J.
Turner Brass Works, 66 Michigan, Chicago, Ill.

Furnaces (Lead)

Focht, Geo. Sons (Pipe Line), Hoboken, N. J.
Illies, C. A. & Co. (Lead Melting, on Wheels
or Legs), 14th & Western av, Chicago, Ill.
Loetzer Valve & Mfg. Co. (Furnace & Lead Pot
Mounted on Wheels), Monroeton, Pa.

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)
Mueller, H. Mfg. Co., Decatur, Ill.
Pollard, Jos. G., 141 Raymond, Brooklyn,
N. Y.
Schalkenbach & Budke, Jersey City, N. J.
Smith, A. P. Mfg. Co. ("Economic,"
"O'Brien"), Newark, N. J.
STRONG, CARLISLE & HAMMOND CO.
("Frankfort"), 336-344 Frankfort av., N.
W., Cleveland, O. (See adv. index, end of
book)
Stuebner, G. L. Iron Works, 2th & Vernou av.
Long Island City, N. Y.
Union Iron Works, Hoboken, N. J.

Furnaces (Lead Tempering)

Best, W. N. American Calorific Co., 11 B'way,
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CHICAGO FLEXIBLE SHAFT CO.
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Chicago, Ill. (See adv. index & branch
offices, end of book)
Gilbert & Barker Mfg. Co., Springfield, Mass.
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)
Rockwell Furnace Co. (For Oil or Gas), 26
Courtlandt, New York
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("Frankfort"), 336-344 Frankfort av., N.
W., Cleveland, O. (See adv. index, end of
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TATE, JONES & CO. (Inc.), Empire bldg.,
Pittsburg, Pa. (See adv. index, end of
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Furnaces (Liquid Boiling)

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Cincinnati, O. (See adv. index, end of book)
Rockwell Furnace Co. (For Oil or Gas), 26
Courtlandt, New York

Furnaces (Liquid Fuel)

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Los Angeles, Cal.
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)

*Furnaces (Magnet Heating)

CHICAGO FLEXIBLE SHAFT CO.
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cago, Ill. (See adv. index & branch offices,
end of book)

*Furnaces (Malleable Annealing)

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Pittsburg, Pa. (See adv. index, end of
book)
WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

*Furnaces (Malleable Melting)

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

Furnaces (Melting)

(See also Furnaces, Brass & Copper Melting)
AMERICAN GAS FURNACE CO., 23
John, New York, & Elizabeth, N. J. (See
adv. index, end of book)
Best, W. N. American Calorific Co. ("Cal-
orex"), 11 B'way, New York
CHICAGO FLEXIBLE SHAFT CO.
("Stewart" for Soft Metal, etc.), La Salle
av & Ontario, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)
Fisher, Alfred, 103 W Monroe, Chicago, Ill.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Kenworthy Engineering Co., Waterbury, Conn.
MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)
Monarch Engineering & Mfg. Co. ("Steele-
Harvey" Crucible Tilting), Curtis Bay,
Baltimore, Md.
Reed, Chas. J., 23d & Hamilton, Phila., Pa.
STRONG, CARLISLE & HAMMOND CO.
("Frankfort"), 336-344 Frankfort av., N.
W., Cleveland, O. (See adv. index, end of
book)
Wellman-Seaver-Morgan Co. ("Wellman," Roll-
ing or Stationary), Cleveland, O.

***Furnaces (Muffle & Oven)**

CHICAGO FLEXIBLE SHAFT CO.
("Stewart" Gas Blast), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

Furnaces (Muffling & Charcoal Sinking)

MacKenzie's, Duncan Sons Co., Trenton, N. J.

***Furnaces (Oil Tempering)**

CHICAGO FLEXIBLE SHAFT CO.
("Stewart" Gas Blast), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

MACLEOD, WALTER & CO., 213 E. Pearl.
Cincinnati, O. (See adv. index, end of book)

STRONG, CARLISLE & HAMMOND CO.
("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Furnaces (Open Hearth)

Aetna Foundry & Machine Co., Warren, O.
Best, W. N. American Calorific Co., 11 B'way, New York

Laughlin, Alex. & Co. (Continuous Heating), Lewis blk, Pittsburg, Pa.

McClure, G. W. Son & Co., Bessemer bldg.,
Pittsburg, Pa.

Philadelphia Roll & Machine Co., S 23d
Washington av, Philadelphia, Pa.

Pollock, Wm. B. Co., Youngstown, O.

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Furnaces (Plate Heating)

Best, W. N. American Calorific Co., 11 B'way, New York

CHICAGO FLEXIBLE SHAFT CO.
("Stewart" Gas Blast), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

MACLEOD, WALTER & CO., 213 E. Pearl.
Cincinnati, O. (See adv. index, end of book)

Rockwell Furnace Co. (Oil or Gas for Fuel), 26 Cortlandt, New York

Furnaces (Producers' Gas)

(See Furnaces, Gasoline Blast; also Furnaces, Kerosene)

Furnaces (Producers' Gas)

Combustion Utilities Co., 60 Wall, New York
GAS POWER CO., 2 Rector, New
York. (See adv. index, end of book)
Morgan Construction Co., Worcester, Mass.

Furnaces (Pyrites)

Atlanta Machine Works, 1 King, Atlanta, Ga.
Larrabee, H. C. & Co., Baltimore, Md.

Furnaces (Regenerating Gas)

MACLEOD, WALTER & CO., 213 E. Pearl.
Cincinnati, O. (See adv. index, end of book)

Morgan Construction Co., Worcester, Mass.

Rockwell Furnace Co., 26 Cortlandt, New
York

Swindell, Wm. & Bro., German National Bank
bldg, Pittsburg, Pa.

Furnaces (Re-Heating)

Best, W. N. American Calorific Co., 11 B'way, New York

MACLEOD, WALTER & CO., 213 E. Pearl.
Cincinnati, O. (See adv. index, end of book)

Morgan Construction Co., Worcester, Mass.

Furnaces (Revolving Forge)

Best, W. N. American Calorific Co., 11 B'way, New York

MACLEOD, WALTER & CO., 213 E. Pearl.
Cincinnati, O. (See adv. index, end of book)

Pawtucket Mfg. Co., Pawtucket, R. I.

Rockwell Furnace Co. (Annealing, for Oil,
Coal or Gas), 26 Cortlandt, New York

Furnaces (Rivet Heating)

Best, W. N. American Calorific Co., 11 B'way, New York

CHICAGO FLEXIBLE SHAFT CO.
("Stewart" Gas Blast), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

Gilbert & Barker Mfg. Co., Springfield, Mass.

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

MACLEOD, WALTER & CO., 213 E. Pearl.
Cincinnati, O. (See adv. index, end of book)

Monarch Engineering & Mfg. Co. ("Steel-Illarvey" Oil), Baltimore, Md.

Rockwell Engineering Co. (For Oil, Coal or Gas), 26 Cortlandt, New York

STRONG, CARLISLE & HAMMOND
Co. ("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

TATE, JONES & CO. (Inc.), Empire bldg.,
Pittsburg, Pa. (See adv. index, end of book)

Furnaces (Roll Tapering)

Best, W. N. American Calorific Co., 11 B'way, New York

MACLEOD, WALTER & CO., 213 E. Pearl.
Cincinnati, O. (See adv. index, end of book)

Railway Materials Co. ("The Ferguson," Oil as Fuel), Old Colony bldg, Chicago, Ill.

Furnaces (Rolling & Melting)

Best, W. N. American Calorific Co., 11 B'way, New York

MACLEOD, WALTER & CO., 213 E. Pearl.
Cincinnati, O. (See adv. index, end of book)

Wellman - Seaver - Morgan Co. ("Wellman"),
Cleveland, O.

Furnaces (Salamander)

(See Salamanders)

Furnaces (Smelting, Roasting, Calsing, Etc.)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)

American Coke & Gas Cons. Co. ("O'Brien,"
Ore Roasting), Camden, N. J.

Arizona & Sonora Mfg. Co. (Wood Fuel), Mesquite, Ariz.

Braun, F. W., Los Angeles, Cal.

Chalmers & Williams ("White Howell" Roasting), Commercial Nat'l Bank bldg., Chicago, Ill.

Chisholm, Matthew, & Co. ("Edwards" Ore Roasting), Colorado Springs, Col.

Colorado Iron Works Co., Denver, Col.

Davis, F. M. Iron Works Co., Denver, Col.

Denver Engineering Works Co., Blake & 30th,
Denver, Colo.

Fulton Iron Works ("Wright-McDougall"), San Francisco, Cal.

Harron, Rickard & McCone (Inc.), San Francisco,
Cal.

Hendy, Joshua, Machine Works, 38 Fremont
San Francisco, Cal.

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)

WUERZ KILN & CHIMNEY CONS.
Co., 34 W 33d, New York. (See adv. index, end of book)

Mecklenberg Iron Works, Charlotte, N. C.

Mine & Smelter Supply Co., Denver, Colo.

Miners' Smelting Furnace Co. ("Medberg,"
Rotary Smelting), 29 B'way, New York

Mitchell, Geo. (Hot Blast Matting), 52 Wall
New York

Nichols Copper Co. ("Herreshoff" Roasting), 25
Broad, New York

Power & Mining Machinery Co. ("Bruecker,"
"McDowell," Roasting Furnaces, etc.),
Cudahy, Wis.

REEVES BROS. CO. (Roasting, Calsing, etc.),
Alliance, O. (See adv. index & branch offices, end of book)

Stearns-Rogers Mfg. Co., 1718 California,
Denver, Col. Works, Pueblo, Col.

Traylor Engineering Co., Allentown, Pa.

Union Iron Works Co., San Francisco, Cal.

Wellman-Seaver-Morgan Co. (Smelting),
Cleveland, O., & Akron, O.

Furnaces (Smokeless)

(See also Mechanical Stokers)

Automatic Smoke Preventer Co. ("Thomas"),
New York

Bissett, R. J. & Co. ("Eureka," "Model"),
805 Superior av., N. W., Cleveland, O.

Brightman Furnace Co., Cleveland, O.

Burke, James V., 185 Dearborn, Chicago, Ill.

Butman, T. R., Monadnock bldg, Chicago, Ill.

Climax Smoke Preventer Co., Boston, Mass.

Fulton Foundry Co. ("Eureka" Smoke Consumers), Cleveland, O.

Gas Hive Co., 136 Liberty, New York

Harris Smokeless Furnace Co. ("Harris" Smoke Consuming), Nashville, Tenn.

Harrisburg Foundry & Machine Works ("Weismeyer"), Harrisburg, Pa.

Hawley Down Draft Furnace Co., Superior &
Townsend, Chicago, Ill.

Herbert Boller Co., 240 Root, Chicago, Ill.

Love Bros. (Inc.) (Self Feeding), Aurora, Ill.

McKenzie Furnace Co., Chicago, Ill.

Model Stoker Co. ("Model" Automatic), Dayton, O.

Murphy Iron Works ("Murphy" Automatic), ft of Walker, Detroit, Mich.

Parsons Engineering Co. ("Parsons," Smoke Consumers), Arcade bldg, Phila, Pa.

Power Specialty Co. ("Kent"), 111 B'way,
New York

Sargent & Greenleaf Co., Rochester, N. Y.

Scharf, G. H. Co., Ypsilanti, Mich.

Union Standard Furnace Co., 309 B'way, New
York

Unique Equipment Co. ("Unique"), Astoria,
N. Y.

WESTINGHOUSE MACHINE CO.
("Roney"), Westinghouse bldg, Pittsburg, Pa. (See adv. index, end of book)

Wilkinson Mfg. Co., Bridgeport, Pa.

Wooley Smokeless Furnace Co., Pittsburg, Pa.

Furnaces (Soldering)

(See Furnaces, Gasoline Blast; also Furnaces, Kerosene)

***Furnaces (Steel Annealing)**

(See Furnaces, Annealing & Case Hardening)

Furnaces (Steel Melting)

Best, W. N. American Calorific Co., 11 B'way, New York

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch offices, end of book)

WUERZ KILN & CHIMNEY CONS.
Co., 34 W 33d, New York. (See adv. index, end of book)

Furnaces (Sulphur)

Bethlehem Foundry & Machine Co., Front,
South Bethlehem, Pa.

Schutte & Koerting Co. (Beet Sugar or Glue,
etc.), 1251 N 12th, Philadelphia, Pa.

Furnaces (Tempering)

(See Furnaces, Annealing & Case Hardening)

***Furnaces (Tinning)**

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)

Furnaces (Tire Heating)

Gilbert & Barker Mfg. Co., Springfield, Mass.

Kane & Roach (Gas), Syracuse, N. Y.

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)

STRONG, CARLISLE & HAMMOND CO.
("Frankfort"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

TATE, JONES & CO. (Inc.), Empire bldg.,
Pittsburg, Pa. (See adv. index, end of book)

Williams, White & Co., Moline, Ill.

Furnaces (Welding)

Kenworthy Engineering Co., Waterbury, Conn.

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)

U. S. Gas Furnace Co., 159 Aborn, Providence, R. I.

Furnaces (Welding, Regenerative)

MACLEOD, WALTER & CO., 213 E. Pearl,
Cincinnati, O. (See adv. index, end of book)

TATE, JONES & CO. (Inc.), Empire bldg.,
Pittsburg, Pa. (See adv. index, end of book)

Wile Power Gas Co., Cleveland, O.

Furnaces (Wire Baking & Annealing)

Best, W. N. American Calorific Co., 11 B'way, New York
MACLEOD, WALTER & CO., 213 E. Pearl, Cincinnati, O. (See adv. index, end of book)
 Morgan Construction Co., Worcester, Mass.
 Rockwell Engineering Co. (Oil, Coal or Gas), 26 Cortlandt, New York
TATE, JONES & CO. (Inc.), Empire bldg., Pittsburg, Pa. (See adv. index, end of book)
WRIGHT WIRE CO., Worcester, Mass.

Furnaces (Wood Burning)

(See also Furnaces, Hot Air, Manufacturers)
 Berghstrom Bros. & Co., Neenah, Wis.
 Claudia & Meyer, Adrian, Mich.
 Dean, Walter R., Oakam, Mass.
 Hart & Crouse Co., Utica, N. Y.
 International Heater Co., Utica, N. Y.
 Lennox Machine Co. (Also for Hard & Soft Coal), Marshalltown, Ia.
 Miller Furnace Co., Grand Rapids, Mich.
 Mouroe Foundry & Furnace Co., Monroe, Mich.
 Schill Bros. Co., Crestline, O.
 Wood & Bishop Co., Bangor, Me.

Furniture (Bamboo)

Boston Bamboo Co., 117 Portland, Boston, Mass.
 Klein Bros., 520 E 81st, New York
 Heinecke, Adolph & Son, ft of Mason, Milwaukee, Wis.
 Minneapolis Bedding Co., Minneapolis, Minn.
 National Carriage & Reed Co., Cincinnati, O.
 West Branch Novelty Co., Milton, Pa.

Furniture (Bank & Office)

ANDREWS, A. H. CO., 174 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
 Stafford, E. H. Mfg. Co., 248 Adams, Chicago, Ill.

Furniture (Church & Lodge)

Abramson & Eugesser Co., 1971 1st av, New York
 Ahmann, M. Church Goods Co., 324 Main, Cincinnati, O.
 Ahnapee Veneer & Seating Co. (Veneer Seating, etc.), Algoma, Wis.
 Alexander, R., 195 Osland av, E. Minneapolis, Minn.
 Allen Chair Co., Concord Junction, Mass.
 Allen-Totman Co., 90 Canal, Boston, Mass.
 American Seating Co. (Seating, etc.), 90 Wabash av, Chicago, Ill.
ANDREWS, A. H. CO. (Seating, etc.), 174 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
 Architectural Woodworking Co., 3019 Chestnut, Philadelphia, Pa.
 Bent, G. W. & Co. (Cushions & Kneeling Stools), 93 Causeway, Boston, Mass.
 Cincinnati Seating Co. (Altars, Pews, Reversible Settees, etc.), Cincinnati, O.
 De Wolf Furniture Co., Garnett, Kan.
 Fridman Seating Co., New Richmond, O.
 Frier, Geo. L., Tacoma, Wash.
 Geissler, R., 56 W 8th, New York
 Hackner, E. (Altars, Pulpits, Statuary, etc.), La Crosse, Wis.

Halstrick, Anthony (Sculptor & Carver), 636 South av, Rochester, N. Y.
 Hogeman, Chas. F., 105 E 17th, New York
 Hyde-Murphy Co. (Seats, Pulpits, Pew Ends, etc.), Ridgway, Pa.
 Lamb, J. & R. (Inc.), 25 6th av, New York
 Lausberg & Macke, Louisville, Ky.
 McClees, L. B. (Est. of), 21 S 12th, Philadelphia, Pa.
 Maxon & Co. (Pews), Westerly, R. I.
 Michigan Apparatus Co., Ann Arbor, Mich.
 Minneapolis Office & School Furniture Co., Minneapolis, Minn.
 Mitchell, Robert, Furniture Co., 624 Race, Cincinnati, O.
 Mitchell, T. H., Salisbury, Md.
 Moore Mfg. Co., Springfield, Mo.
 N. J. School & Church Furniture Co., Trenton, N. J.
 Olcott, J. M., 63 5th av, New York
 Osker & Ford Mfg. Co. (Seating, etc.), Grand Rapids, Mich.
 Pratt, Amasa & Co., Lowell, Mass.
 Readsboro Chair Mfg. Co., Readsboro, Vt.
 Retting Furniture Co. (Lodge Only), Grand Rapids, Mich.
 Richardson, H. H. & Co. (Mfrs.' Agts.), Jacksonville, Fla.
 Rowles, E. W. A., 177 Monroe, Chicago, Ill.
 St. Paul Furniture Co., 415 Rosabel, St. Paul, Minn.
 Sanford Sash & Blind Co. (Pews), Sanford, N. C.
 Schmid, Geo. A. (Altars, etc.), Streator, Ill.
 Schmit, Henry & Co., 1069 Hopkins, Cincinnati, O.
 Shaw, A. B. & E. L. Co. (Furniture), 81 Causeway, Boston, Mass.
 Small, S. C. Furniture Co. (Furniture), 90 Canal, Boston, Mass.
 Spencer Desk Co., San Francisco, Cal.
 Stafford, E. H. Mfg. Co., 248 Adams, Chicago, Ill.
 Standard School Furnishing Co., 2023 Clark, Chicago, Ill.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Stephens, Thos. & Sons (Inc.), Albany, N. Y.
 Stoltzenberg Co., 51 Barclay, N. Y.
 Thomas & Co., Worcester, Mass.
 Tiffin Mfg. Co., (Pews, Pulpits, Altars, Altar Railings, etc.), Tiffin, O.
 Tiffany Studios (Special Designs), 347 Madison av, New York
 Vauhan-Bonsall Co., Salem, O.
 Washington Mfg. Co., Tacoma, Wash.
 Weber, C. F., & Co., San Francisco, Cal.
 Whitaker & Ray Co., San Francisco, Cal.
 Woodman, Joel B. (Pews, etc.), Hoboken, N. J.

Furniture (Dental & Surgical)

American Cabinet Co., Two Rivers, Wis.
 Harvard Co., Canton, O.
 McRae & Roberts Co., Detroit, Mich.
 Michigan Lubricator Co., Detroit, Mich.
 Wolf, Fred. W. Co. (Expansion, Gauge, etc.), 141 Rees, Chicago, Ill.

Furniture (Folding Camp)

Gold Metal Camp Furniture Mfg. Co. (Beds, Tables, Stools, Tents, etc.), Racine, Wis.

Furniture for Public Buildings

ANDREWS, A. H. CO., 174 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)

Art Metal Construction Co. (Metallic), Jamestown, N. Y.
 Duker, Otto & Co., Canton av & Albemarle, Baltimore, Md.
 Fridman Seating Co. (Office & Court House), New Richmond, O.
 Hein Furniture Co., Toledo, O.
 Jamestown Metal Furniture Co., Jamestown, N. Y.
 Matthews Bros. Mfg. Co., 61 4th, Milwaukee, Wis.
 Mitchell, Robert Furniture Co., 624 Race, Cincinnati, O.
 Mowday, D. L., Norristown, Pa. (Leather Covered)
 Revell, A. H. & Co., Wabash av & Adams, Chicago, Ill.
 Richardson, H. H. & Co. (also Opera House) (Mfrs.' Agts.), Jacksonville, Fla.
 Stafford, E. H. Mfg. Co., 248 Adams, Chicago, Ill.
 Tiffany Studios (Special Designs), 347 Madison av, New York
 Woilaeger Mfg. Co., 636 N. Water, Milwaukee, Wis.

Furniture (Hardware)

(See Hardware Manufacturers, Cabinet)

Furniture (Hospital)

Bernstein Mfg. Co. (Also All Kinds of Apparatus & Supplies), 3d & Allegheny av, Philadelphia, Pa.
 Columbus Aseptic Furniture Co., Columbus, O.
 Sargeant Mfg. Co., Muskegon, Mich.

Furniture (Knocked Down)

Bockstege Furniture Co. (Tables, etc.), Evansville, Ind.
 Cron, L. C. & W. L. Co., Piqua, Ohio
 Gunn Furniture Co. (Bookcases), Grand Rapids, Mich.
 Humphrey Bookcase Co. (Bookcases), Detroit, Mich.
 Imperial Furniture Co. (Tables, etc.), Grand Rapids, Mich.
 Mohawk Mfg. Co., Mohawk, N. Y.
 New Way Furniture Co. (Unfurnished Furniture Parts), Detroit, Mich.

Furniture (Lawn & Porch)

Biscoe Bending & Chair Mfg. Co., Biscoe, N. C.
 Crocker Chair Co. (Porch Chairs & Settees), Sheboygan, Wis.
 Gendron Wheel Co. (Porch), Toledo, O.

Furniture (Metallic)

(See also Bank & Office Fixtures, Metallic)
ANDREWS, A. H. CO. (Chairs, Stools, Tables, etc.), 174 Wabash av, Chicago, Ill. (See adv. index & branch offices, end of book)
BERGER MFG. CO., THE, Canton, O. (See adv. index & branch offices, end of book)
 Buffalo Metal Furniture Mfg. Co., Buffalo, N. Y.
 Canton Art Metal Co., Canton, O.
 Chicago Wire Chair Co. (Wire or Metal Chairs, Tables, Stools, etc.), 129 La Salle, Chicago, Ill.
GENERAL FIREPROOFING CO., Youngstown, O., & 10 E 33d, New York. (See adv. index & branch offices, end of book)



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Jamestown Metal Furniture Co., Jamestown, N. Y.
Library Bureau, 530 Atlantic av., Boston, Mass.
Manufacturing Equipment & Engineering Co. (Stools, etc.), 209 Washington, Boston, Mass.
National Safe & Lock Co. (For Express Companies), Cleveland, O.
Royal Metal Mfg. Co. (Weatherproof Chairs, Tables, Stools, etc.), Chicago, Ill.
SMITH, F. P. WIRE & IRON WORKS.
100 Lake, Chicago, Ill. (See adv. index, end of book)
Toledo Metal Furniture Co. ("Uhl" Art Steel, for Office Equipment, etc.), Toledo, O.
Yesbera Mfg. Co. (Inc.) (Tables, Chairs, & Stools for Stores), Toledo, O.

*Furniture Panel Stock

STEARNS, A. T. LUMBER CO., Needhamset, Boston, Mass. (See adv. index, end of book)

Furniture (Post Office)

St. Paul Furniture Co., 415 Rosabel, St. Paul, Minn.
Wollaeger Mfg. Co., 636 N Water, Milwaukee, Wis.

Furniture (Printers' Wood)

(See Printers' Wood Furniture)

Furniture (Rattan & Reed)

Bay State Chair Co., New Bedford, Mass.
Beyer, J. F., Worcester, Mass.
Bishop & Dickinson, Baldwinville, Mass.
Capital Rattan Co., Indianapolis, Ind.
Colony, J. L. Co. (Rattan Chairs), Keene, N. H.
Conway Chair Co., Conway, N. H.
Dickerman, J. A., Gardner, Mass.
Dunn, John A. Co., Gardner, Mass.
Ehlers, Robert J. Co., 432 Lexington av., New York

Ford & Johnson, Chicago, Ill.
Gendron Wheel Co., Toledo, O.
Hardware & Woodenware Mfg. Co., 693 B'way, New York

Hartshorn, C. H., Gardner, Mass.
Hechinger Bros. & Co., Baltimore, Md.
Heywood Bros. & Wakefield Co., Gardner, Mass.
Jansen, Ed., 112 W 18th, New York
Jenkins-Phipps Co., Wakefield, Mass.
Kelly Bros., Gardner, Mass.
Klinley Mfg. Co., Chicago, Ill.
Kurtz, N. M. Co., San Francisco, Cal.
Lattimer, W. H. & Sons, Orwell, N. Y.
May's Rattan Works, 1802 N Clark, Chicago, Ill.
Minneapolis Baby Carriage Co., Minneapolis, Minn.

National Carriage & Go-Cart Co., Faribault, Minn.
Newburgh Reed Co., Newburgh, N. Y.
New England Reed Co., Boston, Mass.
Omaha Reed & Rattan Works, Omaha, Neb.
Plel Bros. Mfg. Co., Indianapolis, Ind.
Pioneer Mfg. Co., Detroit, Mich.
Rattan Mfg. Co., New Haven, Conn.
Ryan Rattan Chair Co., Grand Rapids, Mich.
St. Louis Rattan Co., St. Louis, Mo.
Sons-Cunningham Co., 26 Cherry, New York
Theise, Fred., Boston, Mass.
Virgin, J. M. & Son, Saco, Me.
Wakefield Mfg. Co., Wakefield, Mass.
White River Chair Co., Brattleboro, Vt.
Ypsilanti Reed Furniture Co., Ionia, Mich.

Furniture (School)

Allen Chair Co. (Settees, Folding Chairs, etc.), Concord Junction, Mass.
Allen-Totman Co. (Portable Wood Folding), 90 Canal, Boston, Mass.
American Seating Co. (Automatic Desks, Seats, etc.), 90 Wabash av., Chicago, Ill.
ANDREWS, A. H. CO. (Furniture), 174 Wabash av., Chicago, Ill. (See adv. index & branch offices, end of book)
Caxton Co., 378 Wabash av., Chicago, Ill.
Chandler Adjustable Chair & Desk Co., 165 Devonshire, Boston, Mass.
Cincinnati Seating Co. (Seats, Apparatus & plies), 6th & Vine, Cincinnati, O.
Columbus School Desk Co., Columbus, Ga.

De Wolf, Geo. N., Garnett, Kan.
Evans, R. & Co. (Also Charts), Green Bay, Wis.
Fritz & Goedel Mfg. Co. (Desks, etc.), Grand Rapids, Mich.
Gage, J. F. & Co. (Seating Desks, etc.), Minneapolis, Minn.
Haney School Furniture Co. (and Supplies), 63 5th av., N. Y.; Grand Rapids, Mich.
Household Cabinet Works, Providence, R. I.
Kansas City Furniture & Bedding Manufactory, Kansas City, Mo.
McClees, L. B. (Est. of) (Apparatus & Supplies), 21 S 12th, Philadelphia, Pa.
Michigan Apparatus Co., Ann Arbor, Mich.
Minneapolis Office & School Furniture Co., Minneapolis, Minn.
Moore Mfg. Co., Springfield, Mo.
N. J. School & Church Furniture Co., Trenton, N. J.

Oklahoma School Desk Mfg. Co., Cherokee, Okla.
Pacific Coast School Furniture Co., Forest Grove, Ore.
Richmond School Furniture Co., 26 Dean, Brooklyn, N. Y.
Rowles, E. W. A., 177 Monroe, Chicago, Ill.
Smith, S. A. Co. (Settees Made Same as Desk Seats), Brattleboro, Vt.
Spencer Desk Co., San Francisco, Cal.
Stafford, E. H. Mfg. Co., 248 Adams, Chicago, Ill.
Standard School Furnishing Co., 2023 Clark, Chicago, Ill.
Weber, C. F. & Co., San Francisco, Cal.
Whitaker & Ray Co., San Francisco, Cal.
Woodruff & Edwards Co. (Desks, etc.), Elgin, Ill.

*Furniture (Steel Rod)

ANDREWS, A. H. CO. (Standards of Chairs, Stools & Tables), 174 Wabash av., Chicago, Ill. (See adv. index & branch offices, end of book)

Furring & Lathing (Iron)

McCartney, R. G. (Steel), 622 St. Nicholas av., New York
MERRITT & CO., Front & Arch, Camden, N. J. (See adv. index, end of book)
Monahan, Martin J., 1123 B'way, New York
Schrattwieser, C., 426 3d av., Brooklyn, N. Y.
Voss, Fred'k, 617 Austin av., Chicago, Ill.

Fuse (Railway Signal)

(See Torpedoes & Fuses, Railway Signal)

Fuse (Links)

Underwriters' Hatch Door Co. (For Fire Doors), Chicago, Ill.

Fuse Wire

(See Fuses, Enclosed, Indicating; also Fuses, Miscellaneous, Electric)

Fuses (Enclosed, Indicating)

Bryant Electric Co. Electric, Bridgeport, Conn.
Chase-Shawmut Co. (National Electric Code Standard), Newburyport, Mass.
Chicago Fuse Wire & Mfg. Co. ("Union"), 170 S Clinton, Chicago, Ill.
D & W FUSE CO. ("D & W" Cart-ridge or Plug Type), Providence, R. I. (See adv. index, end of book)
Detroit Fuse & Mfg. Co. ("Arkless"), Detroit, Mich.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Johns, H. W.-Manville Co. ("Noark"), 100 William, New York
JOHNS-PRATT CO., THE ("Noark"), Hartford, Conn.
Sachs Co., Hartford, Conn.
WESTINGHOUSE ELEC. & MFG. CO., Union B'k bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Woolley Electric Co. ("B-P"), St. Louis, Mo.

Fuses (Miscellaneous, Electric)

American Electric Fuse Co. ("American" Fuse Wire, Links & Strips, also Mica Fuses), Muskegon, Mich.
Appleton Electric Co. ("Veribest"), 224 Washington, Chicago, Ill.
Central Telephone & Elec. Co. ("Gillgen"), St. Louis, Mo.
Chase-Shawmut Co., Newburyport, Mass.

Chicago Fuse Wire & Mfg. Co. ("Union"), 170 S Clinton, Chicago, Ill.
Cook, Frank B., 240 W Lake, Chicago, Ill.
Detroit Fuse & Mfg. Co. ("Arkless"), Detroit, Mich.
Freeman, E. H. Electric Co., Trenton, N. J.
GENERAL ELECTRIC CO. ("Ferguson"), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Hartwig, Wm. J. Co., Detroit, Mich.
Harvard Electric Co. ("Standard," "Greer"), 60 W Van Buren, Chicago, Ill.
Helios Mfg. Co., Phila., Pa.
JOHNS-PRATT CO., THE ("Noark"), Hartford, Conn.

McIntire, C. Co., 1 Franklin, Newark, N. J.
Mercer Electric Mfg. Co., Trenton, N. J.
Mountain State Elec. ("Hall" Mica), Wheeling, W. Va.
Nagel-Collins Mfg. Co., 249 Jefferson, Chicago, Ill.
Paiste, H. T. Co. ("H. & L."), Arch & 32d, Phila., Pa.
Sterling Electric Co. (Heat Coils), Lafayette, Ind.
Weber Electric Co., 131 State, Boston, Mass.
WESTINGHOUSE ELEC. & MFG. CO., Union B'k bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

*Gadders (Air)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Galleries (Riding)

(See also Carousels, Organs, Etc.)

Gillie Engine & Machine Co., Tonawanda, N.Y.
Herschell, Spillman & Co., N Tonawanda, N.Y.
Parker C. W., Abilene, Kans.

Galvanized Iron Pipe Mfrs.

(See Pipe, Galvanized Iron)

Galvanizing (Cold Process)

American Pulley Co., 29th & Bristol, Philadelphia, Pa.
Bossert Electric Construction Co., Utica, N. Y.
California Industrial Co., Los Angeles, Cal.
Hanson & Van Winkle Co., Newark, N. J.
Indiana Galvanizing & Mfg. Co., Anderson, Ind.
Kansas City Galvanizing & Mfg. Co., Dwight bldg, Kansas City, Mo.
Pittsburg Electro Galvanizing Co., Pittsburg, Pa.
United States Electro Galvanizing Co. (Plants Installed), 3 Park av., Brooklyn, N. Y.
Wilmington Electro Plating Co., Wilmington, Del.

*Galvanizing (Hot Process)

ABENDROTH & ROOT MFG. CO. (Two Baths, each 2 ft. 6 in. x 4 ft. 0 in. x 23 ft. 0 in.), Newburgh, N. Y. (See adv. index & branch offices, end of book)

*Galvanizing Plants (Complete)

WILFONG BROS., 52d & Grays av., Phila., Pa. (See adv. index, end of book)

Galvanizing Works

(See also Tinning & Japanning)

American Foundry & Mfg. Co., 11th & Herbert, St. Louis, Mo.
American Galvanizing Co., 816 E Pearl, Cincinnati, O.
American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
American Pulley Co., 29th & Bristol, Philadelphia, Pa.
American Tube & Stamping Co., Bridgeport, Conn.
Bossert Electric Construction Co., Utica, N. Y.
Boston Galvanizing Works, 121 W. 1st, Boston
Briscoe Mfg. Co., Detroit, Mich.
Buffalo Galvanizing & Tinning Works (Also Tinning), 79 Jackson, Buffalo, N. Y.
Buhl Stamping Co. (also Tinning), Detroit, Mich.
California Industrial Co., Los Angeles, Cal.
Central Stamping Co., 24 Cliff, New York.
Cleveland Galvanizing Works Co., 3900 Cooper, N E, Cleveland, O.
Devlin, Thos. Mfg. Co., 3d & Lehigh av., Phila., Pa.
Dover Stamping & Mfg. Co., Cambridge, Mass.
Eberhard Mfg. Co., Cleveland, O.
Flinn, Jno. Metal Works, 315 Howard, San Francisco, Cal.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Grabler Mfg. Co., Cleveland, O.
 Gregory, Thomas Galvanizing Works, 263 N. Henry, Brooklyn, N. Y.
 Hill, Jas. Mfg. Co., Providence, R. I.
 Hubbard & Co., Pittsburg, Pa.
HUNT METAL CORNER CO. (Hot Process), Westboro, Mass. (See adv. index, end of book)
 Illinois Malleable Iron Co., 515 Diversey bou., Chicago, Ill.
 Indiana Galvanizing & Mfg. Co., Anderson, Ill.
 Jersey City Galvanizing Co., 112 John, New York, & 80 Morgan, Jersey City, N. J.
 Kansas City Galvanizing & Mfg. Co., Dwight bldg., Kansas City, Mo.
 Keystone Nail Co., 1618 Wash'n av., Phila., Pa.
 Koven, L. O. & Bro., 50 Cliff, New York
 Lauz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.
 Laughlin, Thos. Co., Portland, Me.
 Lefferts, Jno. C., Smith, Bush & Hamilton avs., Brooklyn, N. Y.
 Lefferts' Galvanizing Works, 508 E 20th, New York
 McCance Bros. Co., Pittsburg, Pa.
 Malleable Iron Fitting Co. (Also Tinning & Japanning), Brantford, Conn.
 Marine Hardware & Equipment Co., South Portland, Me.
 Meaker Co., 44 Elizabeth, Chicago, Ill.
 Metal Finishing Co., Union City, Conn.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Murphy, P. H. Mfg. Co., East St. Louis, Mo.
 National Galvanizing Tinning & Supply Co. (Galvanizing & Tinning of Every Description), 891 N Front, Phila., Pa.
 New England Bolt & Steel Co., 3 Charlton, Everett, Mass.
 Ohio Foundry Co., Cleveland, O.
 Oliver, Wilbur C., Bath, Me.
 Palmer & De Mooy Foundry Co., Cleveland, Ohio
 Penna. Galvanizing Co. (Ltd.), 2130 Race, Phila., Pa.
 Pittsburg Electro Galvanizing Co., Pittsburg, Pa.
 Porter Metal Works, San Francisco, Cal.
 Republic Metalware Co., Buffalo, N. Y., & 21 Cliff, New York
 Rockford Galvanizing Works, Rockford, Ill.
SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)
 Simpson, W. T. & Co., 816 E. Pearl, Cincinnati, O.
 United Galvanizing Co. (Inc.) (All Kinds for All Purposes), 525 N Front, Phila., Pa.
 United States Electro-Galvanizing Co., 3 Park av., Brooklyn, N. Y.
 White Mountain Freezer Co. (Also Tinning), Nashua, N. H.
 Wilcox, Crittenden & Co. (& Tinning), Middletown, Conn.
 Wilmington Electro Plating Co., Wilmington, Del.
 Woodman, Geo. Co., 41 Pearl, Boston, Mass.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Galvanizing & Tinning Plants (Wire Mill)

Morgan Construction Co., Worcester, Mass.
WRIGHT WIRE CO., Worcester, Mass.

Galvano-Bronze Work

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
SCHREIBER, L. & SONS CO., 8th & Eggleston av., Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)

Galvanometers & Bridges

BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
 Century Electric Co., Syracuse, N. Y.
 Foote, Pierson & Co. ("Delta"), 160 Duane, New York
 Gurley, W. & L. E., Troy, N. Y.
 Leeds & Northrop Co. ("Kelvin" "D'Arsonval" Galvanometers & "Kohlrausch," "Carey-Foster," "Hoopes," Bridges), 4901 Stenton av., Gtn., Phila., Pa.
 Manufacturers & Inventors Electric Co. ("Troy"), 84 Nassau, New York
 Mineralac Co., Monadnock bldg., Chicago, Ill.
 Pearce, Frederick Co., 18 Rose, New York
QUEEN & CO. (Inc.), n. w. e 8th & Arch, Phila., Pa. (See adv. index, end of book)
 Reliance Instrument Co., 60 W Van Buren, Chicago, Ill.
 Roller-Smith Co., Bethlehem, Pa.
 Western Electric Co., 250 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.
 Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Gang Rippers

American Woodworking Machinery Co., Rochester, N. Y., West st. bldg. N. Y.
 Filler & Stowell Co., Home Office, Milwaukee, Wis.
 Garland, M. Co., Bay City, Mich.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Union Iron Works, Bangor, Me.

*Garbage Cans (Seamless Pressed Steel)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

Garbage Disposal Plants

(See also Sewage Disposal Plants)

American Extractor Co., Providence, R. I.
 American Reduction Co., 1942 Forbes, Pittsburg, Pa.
BARTLETT, C. O. & SNOW CO., Cleveland, O. (See adv. index, end of book)
 Bridgeport Boiler Works, Bridgeport, Conn.
 Clinton Foundry & Mach. Co., 95 Liberty, New York
 Cragin, Morgan J. (Combined Garbage, Crematory & Hot Water Heater), 285 E. 43d, Chicago, Ill.
 Davis Garbage Furnace Co., Lancaster, Pa.
 Decarie Mfg. Co., 23 S 2d, Minneapolis, Minn.
 Dixon Garbage Crematory Co., Toledo, O.
 Edison Reduction Machinery Co. (Garbage Reduction), Cleveland, O.
 Garrigues, W. E., 1123 B'way, N. Y.

GRISCOM-SPENCER CO., 90 West, New York & ft Washington av., Phila., Pa. (See adv. index & branch offices, end of book)
 Illinois Malleable Iron Co. ("Imico"), 515 Diversey bou., Chicago, Ill.
 International Incinerator Co. (Incinerators), Prudential bldg., Buffalo, N. Y.
KUTZTOWN FOUNDRY & MACHINE CO., 116 N Broad, Philadelphia, Pa. (See adv. index & branch offices, end of book)
 Lewis & Kitchen, 1200 Michigan av., Chicago, Ill.
 Morse-Boulger Destructor Co., 39 Cortlandt, New York
 Municipal Engineering Co., 237 B'way, New York
 Penna. Construction Co., Marletta, Pa.
 Power Specialty Co. ("Heenan," "Destructor"), 111 B'way, New York
 Redfield, Rob't S. & Co., 90 West, New York
 Sanitary Product Co., Fidelity bldg., Phila., Pa.
 Williams, Proctor & Potts (Inc.), Whitehall bldg., New York

Gas Bags (Rubber)

Cleveland Rubber Works, Cleveland, O.
 Davol Rubber Co., Providence, R. I.
 Goodrich, B. F. Co., Akron, O.
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
 National India Rubber Co., Bristol, R. I.
 Peerless Rubber Mfg. Co., 16 Warren, New York
 Tyer Rubber Co., Andover, Mass.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

Gas Composimeters

Uehling Instrument Co., Passaic, N. J.

Gas Engine Igniters

(See Igniters, Gas & Gasoline Engine)

Gas Fixtures

(See Gas & Electric Fixtures, Manufacturers)

Gas Fixtures (Acetylene)

Davis Acetylene Fixture & Supply Co., Elkhart, Ind.

Gas Fixtures (Wrought Iron)

Bradley & Hubbard Mfg. Co., Meriden, Conn.
FLOUR CITY ORNAMENTAL IRON Works, 27th st & 28th av., Minneapolis, Minn. (See adv. index, end of book)
 Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)
 Koehn, Alfred, 159 W 29th, New York
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
 Perelson, L., 204 Centre, New York
 Rose & Hustle, 754 Lexington av., Brooklyn, N. Y.
SCHREIBER, L. & SONS CO., 8th & Eggleston av., Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
STANDARD CO., Railway Exchange bldg., Chicago, Ill. (See adv. index, end of book)

Annealing Boxes Galvanizing Kettles Galvanizing Plants

MOST EXTENSIVE MANUFACTURERS

THIRTY YEARS' EXPERIENCE

KETTLES CARRIED IN STOCK

WILFONG BROTHERS, PHILADELPHIA, PA.

NO HYDROGEN

STRAIGHT CARBON MONOXIDE GAS PRODUCERS

NO CLINKERS

ABSOLUTE

RELIABILITY

NO PRE-IGNITIONS

NO BACK-FIRING



CONTINUOUS

OPERATION

NO PERIODICAL

PULLING OF FIRE

Builders and Contractors for COMPLETE FACTORY and WATERWORKS EQUIPMENT

TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)
Williams, Jno., 556 W. 27th, New York
WISCONSIN IRON & WIRE WORKS,
 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Gas Heating & Cooking Stoves

(See Stoves, Heaters & Ranges, Gas)

Gas Holders

Bartlett, Hayward & Co., Baltimore, Md.
CANTON BOILER & ENGINEERING CO.,
 Canton, O. (See adv. index, end of book)
CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)
Continental Iron Works, West & Calver, Brook-
Cruse-Kemper Co., Amber, Pa. N. Y.
Davis & Farnum Mfg. Co., Waltham, Mass.
Deily & Fowler, 39 Laurel, Phila., Pa.
Dillon, D. M., Fitchburg, Mass.
Hamier Boiler & Tank Co., 3906 S. Halsted,
 Chicago, Ill.
Hejman Boiler Works, Allentown, Pa.
Kerr-Murray Mfg. Co., Ft. Wayne, Ind.
Koven, L. O. & Bro., 50 Cliff, New York.
PETROLEUM IRON WORKS CO.,
 Sharou, Pa., & Farmers' Bank bldg, Pitts-
 burg, Pa. (See adv. index, end of book)
Ritter-Conley Mfg. Co., Pittsburgh, Pa., & 111
 B'way, New York
Stacey Mfg. Co., Elmwood pl., Cincinnati, O.
Western Gas Cons. Co., Fort Wayne, Ind.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Gas Lighters

(See Burners, Various Kinds)

Gas Lighters (Pneumatic)

Pneumatic Gas Lighting Co., 150 Nassau, New
 York

Gas Logs

Cassell, Jacob C., 915 Arch, Philadelphia, Pa.
Crane, Wm. N. Co., 16 W. 32d, New York
Galloway, Wm., 3817 Walnut, Philadelphia, Pa.
Gleason, E. P. Mfg. Co. ("Driftwood"), 37
 Murray, New York
Superior Mfg. Co. (Asbestos), Pittsburgh, Pa.

Gas Machines

(For All Kinds of Gas Machines See Page Number in Index of Contents)

Gas Plants Installed

(See Gas Works, Apparatus and Construction)

Gas Portables

(See Gas & Electric Portables)

Gas Producers

American Furnace & Machine Co., Fulton bldg,
 Pittsburgh, Pa.
Automatic Gas Producer Co., 25 Broad, New
 York
Backus Water Motor Co., Newark, N. J.
BEGGS, JAMES & CO. (Gas Producer En-
gines), 109 Liberty, New York. (See adv.
 index, end of book)
Broomell, Schmidt & Steacy Co. (Inc.), York,
 Pa.
CANTON BOILER & ENGINEERING CO.,
 Canton, O. (See adv. index, end of book)
De La Vergue Machine Co. ("Koertling"), ft
 E 138th, New York
Dixon, H. L. Co., Roslyn, Pa.
Dornfeld-Kunert Co. ("Atkinson" Suction &
 Pressure), Watertown, Wls.

Duff Patents Co., Frick bldg, Pittsburgh, Pa.
Eynon-Evans Mfg. Co., Clearfield & N 15th,
 Philadelphia, Pa.

FAIRBANKS, MORSE & CO. (Suction),
 Wabash av & Eldredge pl, Chicago, Ill.
 (See adv. index & branch offices, end of book)
Foos Gas Engine Co., Springfield, Ohio
Fort Wayne Foundry & Machine Co., Fort
 Wayne, Ind.

Forster-Miller Engineering Co. ("Forster" Water
 Seal), Pittsburgh, Pa.

GAS POWER CO., 2 Rector, New
 York. (See adv. index, end of book)
Gibbs Gas Engine Co. ("Akerlund"), Atlanta,
 Ga.

Harvey, Elbert A. ("Industrial"), 50 Church,
 New York

Industrial Gas Power Co. ("Atkinson" Auto-
 matic), Caswell bldg, Milwaukee, Wls.
International Harvester Co. of America, Chi-
 cago, Ill.

MACLEOD, WALTER & CO., 213 E. Pearl,
 Cincinnati, O. (See adv. index, end of
 book)

Marine Gas Producer Co., Exchange bldg, Bos-
 ton, Mass.

MINNEAPOLIS STEEL & MACHIN-
ery Co. ("Muenzel" Suction), Minneapolis.
 Minn. (See adv. index & branch offices,
 end of book)

Morgan Construction Co. (Furnaces & Kilns),
 Worcester, Mass.

Olds Gas Power Co. ("Pintsch" Suction), Lans-
 ing, Mich.

OIL WELL SUPPLY CO., 215 Water,
 Pittsburgh, Pa. (See adv. index, end of book)
Phila Roll & Machine Co., S 23d & Wash'n av,
 Phila., Pa.

Power & Mining Machinery Co. (Loomis-Petti-
 bone Gas Apparatus for Power Plants and
 Metallurgical), Cudahy, Wls.

Reuleaux, Josef & Co. (Artificial), Second Na-
 tional Bank bldg, Pittsburgh, Pa.

Rose Mfg. Co. ("Neverout" Invertible), 911
 Arch, Philadelphia, Pa.

Smith Gas Power Co. ("Smith" Automatic
 Suction), Lexington, O.

Smythe, S. R. Co. ("Standard"), Pittsburgh, Pa.
Swindell, Wm. & Bros. (for Steel & Iron Works),
 German Nat'l Bank bldg, Pittsburgh, Pa.

Wellman-Seaver-Morgan Co. ("Fraser-Talbot"
 Mechanical & "Linges" Mechanical or
 Hand Operated), Cleveland, O., & Akron,
 Ohio

WESTINGHOUSE MACHINE CO. (for
 Power Plants), Westinghouse bldg, Pitts-
 burg, Pa. (See adv. index, end of book)

Wood, R. D. & Co. ("Taylor" & "Mond," also
 Plants for Operating Gas Engines), 400
 Chestnut, Phila., Pa.

Gas Producers (Water Seal)

American Furnace & Machine Co. ("Swindell")
 Fulton bldg, Pittsburgh, Pa.
Automatic Gas Producer Co., 25 Broad, New
 York

Broomell, Schmidt & Steacy Co., York, Pa.
Duff Patents Co., Pittsburgh, Pa.
Forster-Miller Engineering Co. ("Forster"), Pitts-
 burg, Pa.

GAS POWER CO., 2 Rector, New
 York. (See adv. index, end of book)
Harvey, Elbert A. ("Industrial"), 50 Church,
 New York

Laughlin, Alex & Co., Pittsburgh, Pa.
Morgan Construction Co., Worcester, Mass.

Smythe, S. R. Co. (With Grates, also Grateless),
 Pittsburgh, Pa.

Swindell, Wm. & Bros., Pittsburgh, Pa.
Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Gas Ranges

(See Stoves, Heaters & Ranges, Gas)

Gas Retorts

(See Retorts, Gas)

Gas Shut-Off (Automatic)

Lord, L. L. Co., Meadville, Pa.

Gas Tips (Lava)

American Meter Co., 561 W 47th, New York
Calhutta Tale Co., Dalton, Ga.
North Carolina Tale & Mining Co. (Acetylene
 & Coal Gas Burners), Hewitts, N. C.
Novelty Burner Co. ("E. H." Coal Gas),
 Chattanooga, Tenn.
Steward, D. M., Mfg. Co. ("E. H."), Chatta-
 nooga, Tenn.

Gas Washer, Boiler & Burner (Combined)

Weimer Machine Works Co., Lebanon, Pa.
 Cleveland, Ohio

Gas Works Apparatus & Construction

American Coke & Gas Construction Co., Cam-
 den, N. J.
Artificial Stone Construction Co. (Builders),
 Gadsden, Ala.
Bartlett, Hayward & Co. (Coal & Water Gas),
 Baltimore, Md.
Beacon Contracting & Construction Co., 280
 B'way, New York
Connolly Iron Sponge & Governor Co., 395
 B'way, New York
Continental Iron Works, West & Calver, Brook-
 lyn, N. Y.
Deily & Flower, 39 Laurel, Phila., Pa.
Foos Gas Engine Co., Springfield, Ohio
GAS POWER CO., 2 Rector, New
 York. (See adv. index, end of book)
Isbell-Porter Co., Newark, N. J.
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Lloyd Construction Co., Detroit, Mich.
National Gas & Construction Co., Fidelity bldg,
 Phila., Pa.
Phoenix Gas & Improvement Co. ("Jane-
 way"), Harrison bldg, Phila., Pa.
Practical Gas Construction Co., North Chi-
 cago, Ill.
Quintard Iron Works Co., 12th & E R, New
 York
Ritter-Conley Mfg. Co., Pittsburgh, Pa., & 111
 B'way, New York
Stacey Mfg. Co., Elmwood pl. Cincinnati, O.
United Gas Improvement Co., Broad & Arch,
 Philadelphia, Pa.
Wayne Engineering & Construction Co., Fort
 Wayne, Ind.
Western Gas Cons. Co., Fort Wayne, Ind.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Gas & Electric Fixture Mfrs.

CALIFORNIA.

LOS ANGELES—Eastern Art Metal & Fix-
 Forve-Pettibone Co. ture Co.
Hutchison, W. G., Co.
Meyberg Co.
SAN FRANCISCO—Adams & Hollopeter, 745
Burtschaell, Jno. W., 123 Oak Mission
California Gas Fixture Co., 357 Ellis
Coeffield Co. (Inc.), 51 Shipley
Day, Thomas Co., 725 Mission
Hufschmidt, L. A., Mfg. Co., 558 McAl-
Roberts Mfg. Co., 857 Mission lister
Schermund & Krauss, 1433 Mission

COLORADO.

DENVER—Sechrist, Albert Mfg. Co.

CONNECTICUT.

MERIDEN—Bradley & Hubbard Mfg. Co.
Brenner Bros. Mfg. Co.
Miller, Edw. & Co. (Mfrs., etc.)
WATERBURY—Brenner, R. Mfg. Co.
Waterbury Mfg. Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Catlin, Elmer H., Co., 309
13th, N W

ILLINOIS.

CHICAGO—Acme Metal Mfg. Co., 68 W
Baggott, E., Co., 47 Lake Monroe
Beardslee Chandelier Mfg. Co., 176 S Clinton
Braun, David J. Mfg. Co., 135 W Wash'n
Central Chandelier Co., 509 Fulton
X Chicago Gas & Electric Fixture Mfg. Co.,
19 S Jefferson
X Chicago General Fixture Co., 169 Adams
Debs, Chas. H. & Co., 133 S Clinton
Edwards, W. S. Mfg. Co., 21 E Lake
Lau, W. H., Co., 93 Indiana
Metallic Mfg. Co., 159 39th
Moran & Hastings Mfg. Co., 61 Washington
Pattison, J. L. & Co., 164 S Clinton
Tietgen, Falk & Co., 79 W Van Buren
Wiese, August, 1786 Evanston av
Williamson, R. & Co., 88 W Washington
Wilmarth, T. W. Co., 261 Wabash av
Wingrave & McNaughton Co., 180 Wabash av
DECATUR—Farles Mfg. Co. (Adjustable)
ELGIN—Elgin Brass & Electrical Mfg. Co.

INDIANA.

INDIANAPOLIS—Meikel, C. W. Co.
MUNCIE—Retherford Bros.
RICHMOND—Chandelier & Art Brass Works
TERRE HAUTE—Terre Haute Gas Fixture Co.

MARYLAND.

BALTIMORE—Goode & Craft, 509 Jasper
Kries, Michael A., 305 W Lombard
Walther, Geo. W. & Co., 208 W Fayette

MASSACHUSETTS.

BOSTON—Berne, H. N. & Co., 76 Sudbury
Bigelow, Kennard & Co., 511 Washington
Finch, J. H., 96 High
McKenney & Waterbury Co., 181 Franklin
Shreve, Crump & Low Mfg. Co., 16 Randolph
NEW BEDFORD—Pairpoint Corporation
WORCESTER—White, O. C. Co.

MICHIGAN.

COLDWATER—Champion Brass Works
X DETROIT—Detroit Gas & Electric Fixture
KALAMAZOO—National Gas Light Co. Co.

MINNESOTA.

MINNEAPOLIS—Andresen, Jacob, 208 S 1st
avenue
Frederickson & Hutchinson, 3509 N Penn
avenue
Minneapolis Gas Fixture Co., 802 Nicollet
avenue
ST. PAUL—Minnesota Chandelier Co., 369
Jackson

MISSOURI.

ST. LOUIS—Bredsvold Mfg. Co., 305 Lucas
avenue
Kraushaar Brass Mfg. Co., 2507 N B'way
Lindell Chandelier Mfg. Co., 823 N 6th
X St. Louis Brass Mfg. Co., Wash'n & Jef-
ferson avs
X Sellner Gas & Electric Fixture Mfg. Co., 703
Locust

NEW JERSEY.

BRIDGETON—Acme Gas Fixture Co.
Crescent Art Metal Co.
CAMDEN—Camden Gas Fixture Works
HOBOKEN—Lutz, Alois M.
JERSEY CITY—Gothberg, H. & E., Mfg.
Co., 139 Cator av
N. Y. & N. J. Chandelier Co., 1131 Sum-
mit av
NEWARK—Jaehnig Gas Fixture Co., 221
13th av
Newark Gas & Electric Fixture Co., 157
Storsberg, Fritz, 20 Atlantic Bruce
PATERSON—Strutt, Wm., 349 Main

NEW YORK.

BINGHAMTON—Salo Art Metal Co., 19 Col-
lier
BUFFALO—Art Gas & Electric Fixture Co.
312 Pearl

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Baldinger & Kupferman, 435
B'way
Findlay, Robert Mfg. Co., 349 Adams
Gaites, Peace & Co., 661 Manhattan
Goldberg, Morris, 680 Broadway
Luckett, Frederick, 266 State
Luckett, James, 351 Adams
May, Sylvester, 98 Schermerhorn
Nichols Gas Fixture Mfg. Co., 1100 Myrtle
Rose & Hastie, 754 Lexington av
Rosen, Morris, 909 Gates av
Royle, Charles, 596 Kent av
Shapiro & Aronson, 26 Morton
Stalnes, Bunn & Taber Co., 147 Lawrence
Vosburg, W. C. Mfg. Co., 93 Underhill av
Walbroehl & Co., 352 Knickerbocker av
White, J. H. Mfg. Co., 111 N 3d

Boroughs of Manhattan & Bronx.

NEW YORK—Albert Gas Fixture Co., ft E
avenue
American Brass & Copper Co., 138 La-
fayette av
Barker, Jos. S., 168 Centre
Black & Boyd Mfg. Co., 23 E 22d
Blanchard & Kelly, 157 E 128th
Blatt, S., & Co., 135 Mangin
Bushmiller Co., 90 Lincoln av
Caldwell, Edw. F. & Co., 38 W 15th
Campbell, John Co., 9 Bond
Cassidy & Son Mfg. Co., 135 W 23d
Central Chandelier Co., 413 W B'way
Century Gas & Electric Fixture Co., 180
Grand
Colonial Chandelier Works, 210 Canal
Consolidated Chandelier Co., 231 Bowery
Dale Co., 352 W 13th
Drescher, M., & Co., 106 E 126th
Eisenberg, M., & Son, 165 Grand
Empire Brass Works, 106 E 28th
Empire Gas Fixture Co., 140 Sullivan
Enos Co., 7th av & 16th
Eureka Chandelier Co., 223 Grand
Ideal Gas & Electric Fixture Co., 144 Worth
Iden & Co., 46 University pl
Keystone Gas Fixture Co., 207 E 49th
Lahr & Co., 154 W 27th
McCoy, J. B. & Son, 118 W 30th
Miller, Edw. & Co., 80 Warren
Mitchell-Vance Co., 503 W 24th
New York Pioneer Mfg. Co., 161 Wash-
ington
Nolan, Dennis J., 480 Pearl
Ornamental Art Metal Works, 216 W
Pellegrini, A. & Co., 153 W 29th Houston
Plaut, L. & Co. (for the trade only), 432 E
23d
Reading Hardware Co. (Chandeliers), 96
Roeser & Sommer, 386 2d av Reade
Sterling Bronze Co., 107 W 25th
Tiffany Studios, 347 Madison av
Union Gas Fixture Co., 240 W 27th
Union Gas & Electric Fixture Co., ft E
Union Gas & Electric Fixture Co., ft E
U. S. Gas Fixture Co., 205 Centre 23d
Universal Gas & Electric Fixture Co., 182
W Houston
Wahle-Phillips Co., 549 W 52d
Walsh, Owen Mfg. Co., 80 Barclay
Williams, Jno., 556 W 27th
(End of New York City)

UTICA—Utica Brass Works
Utica Fixture Co.

OHIO.

CINCINNATI—Lavercombe Co., 307 E 5th
CLEVELAND—Central Gas & Electric Fix-
ture Mfg. Co., 805 Vincent av. N E
Gas Fixture & Brass Co., 318 High av. S E
Morreau Gas Fixture Mfg. Co., 2047 E
9th, S E
X Ohio Gas & Electric Fixture Mfg. Co.,
2183 E 2d, S E
COLUMBUS—Federal Mfg. Co. (Combination
CONNEAUT—Cleveland Gas & Electric Fix-
ture Co.
TOLEDO—Toledo Chandelier Mfg. Co. also)
Western Gas Fixture Co., 611 St. Clair
TROY—Metallic Novelty Co.

PENNSYLVANIA.

PHILADELPHIA—*Bauer Gas Fixture Wks
(Inc.), 450 N 12th
Columbia Gas Fixture Co., 148 N 4th
Frankford Gas Fixture Co., 4270 Frankford
Gibson Gas Fixture Works, 1426 Callow-
Giese Mfg. Co., 260 S 5th hill
Grell Gas Fixture Works, 330 Noble
Heller, C. B., 622 Arch
Horn & Brannen Mfg. Co. (Inc.), 427 N Broad

Lawrence Gas Fixture Mfg. Co., 12th &
Lloyd-Garrett Co., 141 S 15th Cherry
Modern Gas Fixture Co., 116 N 6th
Penn. Gas Fixture Co., 1824 Cadwallader
Rellance Mfg. Co., 104 N 6th
Sterling Bronze Co., 1513 Walnut
Warner Co., 229 N 6th
Sulzer & Co., 821 Cherry

PITTSBURG—Frederick-Elder Co., 422 1st
avenue
Pittsburg Gas & Electric Fixture Co., 428
Penn av
READING—Reading Hardware Co. (Chande-
liers)

RHODE ISLAND.

PROVIDENCE—Carpenter, H. T. & Co.
Shirley, Jno. R. & Sons

WISCONSIN.

MILWAUKEE—Polachek, Chas. & Bros. Co.

Gas & Electric Light Portables

Bradley & Hubbard Mfg. Co., Meriden, Conn.
Economy Electric & Gas Fixture Co., 51 Cliff
New York
Excelsior Brass Works, Reading, Pa.
Farles Mfg. Co. (Adjustable), Decatur, Ill.
Gaie-Webb Mfg. Co. (Adjustable), Buffalo, N. Y.
Goodwin & Kintz Co. (Gas), Winsted, Conn.
Kraushaar Brass Mfg. Co. (Adjustable, also
Newels or Portables), St. Louis, Mo.
Miller, Edw. & Co., Meriden, Conn. & 28 W.
B'way, New York
Moore, M. E. Bronze & Plate Co., Kingston,
N. Y.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Rose & Hastie, 754 Lexington av, B'klyn, N. Y.
TURNER & SEYMOUR MFG. CO., Torrington,
Conn. (See adv. index, end of book)

Gas & Gasoline Engines

(See Engines, Gas & Gasoline)

Gas & Water Works Supplies

(See also Cast Iron Pipe Manufacturers, Gas
& Water; also Valves, Gate for Water
Mains)
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Barnes Mfg. Co., Mansfield, O.
Behringer, Edward A. (General Supplies for
Gas Works), 82 Warren, New York
Clow, Jas. B. & Sons, 344 Franklin, Chicago,
Ill.
CORNELL & UNDERHILL, 47 Beach,
New York. (See adv. index, end of book)
Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end
of book)
Drummond, M. J. & Co., 182 B'way, New York
Fitts, Frank E. Mfg. Co. & Supply Co., 88
Purchase, Boston, Mass.
Fox, Jno. & Co. (Mfrs.' Agts.), 253 B'way,
New York
Gleichrist, Geo. E. Co., 106 High, Boston, Mass.
Hawkins, F. B. Co., Long Island City, N. Y.
Illinois Malleable Iron Co., 515 Diversey boul.,
Chicago, Ill.
Kelly & Jones Co., 133 Water, Pittsburg, Pa.
McMANN & TAYLOR CO., 104 John,
New York. (See adv. index, end of book)
Miller, Chas. & Son Co., 127 Genessee, Utica,
N. Y.
Moser Mfg. Co., Dallas, Tex.
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
SIMMONS, JOHN CO., 110 Centre,
New York. (See adv. index, end of book)
Roots, P. H. & P. M. Co., Connerville, Ind.
Smith, A. P. Mfg. Co., Newark, N. J.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Western Iron Works, San Francisco, Cal.

***Gaskets (Ammonia Fitting)**

AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze's"), 532 E 149th,
New York. (See adv. index, end of book)

Gaskets (Asbestos)

(For All Other Non-Metallic Gaskets, See
Gaskets, Gum, Fibrous, etc.; also Fibre
Manufacturers, Hard; also Packing Manu-
facturers; also Packing, Metallic)

AMERICAN-GOETZE GASKET &
Packing Co. ("Goetze's"), 532 E 149th,
New York. (See adv. index, end of book)
Federal Asbestos Mfg. Co., Alliance, O.
Goodwin & Kintz Co. (Asbestos & Copper),
Winsted, Conn.
Johns, H. W. Manville Co., 100 William, New
York
JOHNS-PRATT CO., THE ("Valenbe-
ton"), Hartford, Conn.

Keasbey & Mattison Co., Ambler, Pa.
New Jersey Asbestos Co. (Asbestos & Copper
Comblued), Camden, N. Y.
Oil City Asbestos Co., Oil City, Pa.
STRONG MACHINERY & SUPPLY CO.
("Strong's" Tisafine), 48 Franklin, New
York. (See adv. index, end of book)
**WATSON, H. F. CO. (Asbestos & Rub-
ber Cloth, Metallic),** Erie, Pa. (See adv.
index & branch offices, end of book)

Gaskets (Asbestos-Metallic)

(See Gaskets, Metallic, With the Words As-
bestos-Metallic Following Their Name)

*Gaskets (Automobile)

**AMERICAN-GOETZE GASKET &
Packing Co.** ("Goetze's"), 532 E 149th,
New York. (See adv. index, end of book)
**PHOENIX SPECIALTY MFG. CO., 48
Duane, New York.** (See adv. index, end of
book)
**SMOOTH-ON MFG. CO., 572 Com-
muni-paw av. Jersey City, N. J.** (See adv.
index & branch offices, end of book)

Gaskets (Copper)

(See Gaskets, Metallic)

Gaskets (Corrugated Copper)

(See Gaskets, Metallic)

Gaskets (Gum, Fibrous, Etc.)

(See also Gaskets, Asbestos; also Gaskets,
Metallic, Etc.)

Bay State Belting Co. (Rubber), Boston, Mass.
Bishop Gutta Percha Co., 422 E 25th, New
York
BOSTON BELTING CO. (Rubber),
Boston, Mass. (See adv. index & branch
offices, end of book)
Brandt, Randolph (Combination Rubber &
Heavy Duck, High Pressure), 70 Cortlandt,
New York
Burgmann, Feodor, 5 Beekman, New York
Canfield, H. O. Co. (Rubber), Bridgeport, Conn.
Continental Rubber Works (Rubber), Erie, Pa.
Crane Co. (Est. 1855), 519 Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)
DIAMOND RUBBER CO. (Rubber),
Akron, O. (See adv. index & branch offices,
end of book)
Empire Rubber Mfg. Co. (Rubber), Trenton, N. J.
Garlock Packing Co., Palmyra, N. Y.
Goodrich, B. F. Co. (Rubber), Akron, O.
Greenwood Mfg. & Supply Co. (Fireproof),
Boston, Mass.
Gutta Percha & Rubber Co. (Rubber), 126
Duane, New York
Hamilton Rubber Mfg. Co. (Rubber), Trenton,
N. J.

Hartford Rubber Works Co. (Rubber), Hartford,
Conn.
Hodgman Rubber Co. (Rubber), 806 B'way,
New York
Home Rubber Co. (Rubber), Trenton, N. J.
Jenkins Bros., 71 John, New York
Knowlton, Geo. W. Rubber Co. (Rubber), Bos-
ton, Mass.
Libby Valve & Packing Co., Niantic, Conn.
Manhattan Rubber Mfg. Co. (Rubber), 18 Vesey,
New York
Mechanical Rubber Co. (Rubber), 73 Reade,
New York
Milford Rubber Works (Rubber), Milford, Ill.
Mineralized Rubber Co. (Rubber), 18 Cliff New
York
Morgan & Wright ("White Seal," Tubular As-
bestos Covered, Tubular Rubber), Detroit,
Mich.
National India Rubber Co. (Rubber), Bristol,
R. I.
New Jersey Car Spring & Rubber Co. (Rubber),
Jersey City, N. J.
New York Belting & Packing Co. (Rubber), 91
Chambers, New York
New York Insulated Wire Co. (Lighting Non-
Tubular Brand), 114 Liberty, New York
New York Rubber Co. (Rubber), 84 Reade, New
York
Peerless Rubber Mfg. Co. (Rubber), 16 Warren,
New York
**PENNSYLVANIA RUBBER CO. ("Cen-
tury," Wire Insertion, Cloth Insertion,
Fibrous, Safe, Tubular, Screen Diaphragm,
etc.),** Jeannette, Pa. (See adv. index &
branch offices, end of book)
Pulver, Peter & Sons (Eclipse), 214 Franklin,
New York
Quaker City Rubber Co. (Rubber), 629 Market,
Phila., Pa.
Republic Rubber Co. (Rubber), Youngstown, O.
Revere Rubber Co. (Rubber), Boston, Mass.
**SAYEN, OSGOOD ("Torpedo"), Ar-
cade bldg., Phila. Pa.** (See adv. index, end
of book)
Sherman, H. B. Mfg. Co. (Rubber), Battle
Creek, Mich.
**SIMMONS, JOHN CO. (All Kinds), 106
Centre, New York.** (See adv. index, end of
book)
Stokes, Jos. Rubber Co. (Rubber), Trenton, N. J.
STRONG MACHINERY & SUPPLY CO.
("Strong's Tisafine"), 48 Franklin, New
York. (See adv. index, end of book)
Trenton Rubber Mfg. Co. (Rubber), Trenton,
N. J.
United & Globe Rubber Mfg. Co. (Rubber),
Trenton, N. J.
Voorhees Rubber Mfg. Co. ("Nubian" Tubular,
Rubber), Jersey City, N. J.
Walsh Packing Co. (Combination), 304 New,
Phila., Pa.
Waterbury Rubber Mfg. Co. (Rubber), 75 War-
ren, New York
Western Rubber Works, Goshen, Ind.
Whitehead Bros. Rubber Co. (Rubber),
Trenton, N. J.
Wilcox, E. H. Mfg. Co. (Self Sealing), 260 63d,
Chicago, Ill.

*Gaskets (Hard Fibre)

(See also Fibre, Hard)

AMERICAN VULCANIZED FIBRE CO.,
Wilmington, Del. (See adv. index, end
of book)
**DELAWARE HARD FIBRE CO., Wilming-
ton, Del.** Works: Marshalltown, Del. (See
adv. index, end of book)
**DIAMOND STATE FIBRE CO., Elsmere,
Del.** (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY CO.,
Wilmington, Del. (See adv. index, end of
book)

Gaskets (Lead)

Akron Metallic Gasket Co. (& Soft Metal),
Akron, O.
**AMERICAN-GOETZE GASKET &
Packing Co.** ("Goetze's" & Alloys), 532 E
149th, New York. (See adv. index, end of
book)
PHOENIX SPECIALTY MFG. CO.
(Lead Moulded), 48 Duane, New York. (See
adv. index, end of book)
U. S. Indestructible Gasket Co. (& Alloys), 50
Church, New York
Wilcox, E. A., Mfg. Co. (Manhole), 260 E 63d,
Chicago, Ill.
Windsor Mfg. Co., Milwaukee, Wis.

Gaskets (Leather)

Graton & Knight Mfg. Co., Worcester, Mass.
**PHOENIX SPECIALTY MFG. CO., 48
Duane, New York.** (See adv. index, end of
book)

*Gaskets (Manhole & Handhole for Boilers)

**AMERICAN-GOETZE GASKET &
Packing Co.** ("Goetze's"), 532 E 149th,
New York. (See adv. index, end of book)

*Gaskets ("Merwarth")

**PHOENIX SPECIALTY MFG. CO., 48
Duane, New York.** (See adv. index, end of
book)

Gaskets (Metallic)

(For Rubber Gaskets, see Gaskets, Gum, Fib-
rous, Etc.; also Gaskets, Asbestos, Etc.;
for Fibre Gaskets, see Fibre Manufactur-
ers, Hard)

Akron Metallic Gasket Co. ("Infallible,"
"Double Akron"), Akron, O.
Alberger Condenser Co., 95 Liberty, New York
**AMERICAN-GOETZE GASKET &
Packing Co.** (Plain & Corrugated Copper,
Brass, Steel, Aluminum & Pure Nickel),
532 E 149th, New York. (See adv. index,
end of book)
AMERICAN SPIRAL PIPE WORKS
(Annealed Steel), W 14th & 48th av., Chi-
cago, Ill. (See adv. index & branch offices,
end of book)

Phoenix Specialty Mfg. Co.

INCORPORATED

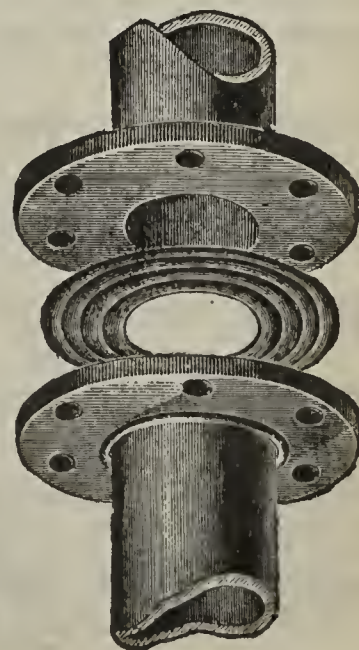
48-50 DUANE STREET, NEW YORK

GASKETS AND WASHERS

CORRUGATED COPPER
CORRUGATED STEEL
COPPER-ASBESTOS
ASBESTOS-METALLIC
MERWARTH-METALLIC
COPPER WIRE
LEAD, RUBBER, ETC.

COPPER
BRASS
ALUMINUM
LEAD
LIGHT STEEL
FIBRE
PAPER, ETC.

Battery Coppers, Discs, Diaphragms, Perforated Metal, Time
Checks, Copper Rivets and Burs, Copper Rivets, Metal
Stampings, Etc. WE HAVE AN UP-TO-DATE FACTORY.



YOU KNOW

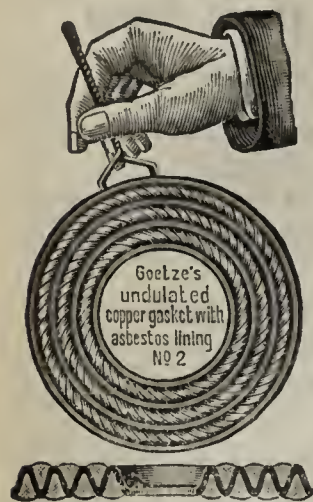
that you can't afford to have your plant shut down because a gasket blows out. You must know, therefore, that you can't afford to use any but the very best gaskets obtainable.

WE KNOW

that Goetze's Elastic Copper Gaskets supply a positive remedy for leaking joints, no matter how high the pressure or temperature. Send for a free sample for a practical test.

THE AMERICAN GOETZE-GASKET & PACKING CO.

532 East 149th St., New York, N. Y.



Charleston Metallic Packing Co. ("Semi-Bronze"), Charleston, S. C.
Crane Co. (Est. 1855) 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Globe Machine & Stamping Co. (Asbestos Metallic), Cleveland, O.
Goodwin & Kintz Co. (Copper & Asbestos), Winsted, Conn.
Guillott Metal Gasket Co., 97 S. Clinton, Chicago, Ill.
Guillott, Wm. Gasket Co., 40 Dearborn, Chicago, Ill.
HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York
Hussey, C. G. & Co. (Copper), Pittsburg, Pa.
McCord Mfg. Co. ("McKim") Copper-Asbestos, Detroit, Mich.
PHOENIX SPECIALTY MFG. CO. ("Merwarth," Corrugated, Asbestos, Metallic, etc.), 48 Duane, New York. (See adv. index, end of book)
Power Specialty Co. ("Bronze"), 111 B'way, New York
SIMMONS, JOHN CO. (All Kinds), 106 Centre, New York. (See adv. index, end of book)
SMOOTH-ON MFG. CO. (Corrugated Iron), 572 Communipaw av., Jersey City, N. J. (See adv. index & branch offices, end of book)
U. S. Indestructible Gasket Co. (Plain & Corrugated Copper, Brass, Steel & Lead), 50 Church, New York
U. S. MINERAL WOOL CO. (Corrugated), 140 Cedar, New York. (See adv. index, end of book)
Wilcox, E. A. Mfg. Co. ("Wilcox," Self-Sealing), 260 E 63d, Chicago, Ill.

*Gaskets (Nickel & Bronze)

AMERICAN-GOETZE GASKET & PACKING CO. ("Goetze's" Silver, etc.), 532 E 149th, New York. (See adv. index, end of book)
PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)

Gaskets (Paper, "Vellumoid")

Vellumoid Paper Co., Worcester, Mass.

Gaskets (Rubber)

(See Gaskets, Gum, Fibrous, Etc.)

*Gaskets ("Smooth-On" Corrugated Iron)

SMOOTH-ON MFG. CO., 572 Communipaw av., Jersey City, N. J. (See adv. index & branch offices, end of book)

Gaskets (Steel Corrugated)

AMERICAN-GOETZE GASKET & PACKING CO. ("Goetze's"), 532 E 149th, New York. (See adv. index, end of book)
AMERICAN SPIRAL PIPE WORKS (Annealed), W 14th & 48th av., Chicago, Ill., & 50 Church New York. (See adv. index, end of book)

PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)
SMOOTH-ON MFG. CO., 572 Communipaw av., Jersey City, N. J. (See adv. index & branch offices, end of book)
U. S. Indestructible Gasket Co., 50 Church, New York

*Gaskets (Valve)

AMERICAN-GOETZE GASKET & PACKING CO. ("Goetze's"), 532 E 149th, New York. (See adv. index, end of book)

*Gaskets ("Vulcabeston")

JOHNS-PRATT CO., THE, Hartford, Conn.

*Gaskets (Wire)

PHOENIX SPECIALTY MFG. CO. (Copper), 48 Duane, New York. (See adv. index, end of book)

Gasoline Refiners

American Oil Works (Ltd.), Titusville, Pa.
Bulls Head Oil Works, San Francisco, Cal.
Crew-Levick Co., Land Title bldg, Phila., Pa.
Emery Mfg. Co., Bradford, Pa.
Freedom Oil Works Co., Freedom, Pa.
Germania Refining Co., Oil City, Pa.
Great Western Oil Co., Cleveland, O.
Gulf Refining Co., Frick bldg Annex, Pittsburg, Pa.
Independent Refining Co., Toledo, O.
INDIAN REFINING CO. (Automobile, Stove, etc.), Cincinnati, O. (See adv. index, end of book)
Miller's, A. D. Sons Co., Allegheny, Pa.
Paragon Refining Co., Toledo, O.
Penn Refining Co., Oil City, Pa.
Red "C" Oil Mfg. Co., Baltimore, Md.
Standard Oil Co. of New York, 555 W 25th, New York
Sunlight Oil & Gasoline Co., 217 Arch, Pittsburg, Pa.
Union Petroleum Co., 135 S 2d, Phila., Pa.
Waverly Oil Works (Stove & Illuminating, Automobile, Gasoline Engines, etc.), 54th & A. V. R'y, Pittsburg, Pa.

*Gate Mfrs. (Folding)

PITT, WM. R. COMPOSITE IRON WORKS ("Pitt," "Bostwick," "Novelty" & "Composite" Patents), 136 W. 24th, New York. (See adv. index, end of book)

Gates (Automatic Drive)

Cargill Mfg. Co. ("Byerly"), Buttes av., Columbus, O.

Gates (Blast)

American Blower Co., Detroit, Mich.
Buffalo Forge Co. (Lever & Slide Type), Buffalo, N. Y.
Empire Blower & Pipe Co., Rochester, N. Y.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
New York Blower Co., 25th pl & Stewart av, Chicago, Ill.; Works: Bucyrus, O.
Star Forge Co., Buffalo, N. Y.
Sturtevant, B. F. Co., Hyde Park, Mass.

Gates (Bridge)

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill.
PITT, WM. R. COMPOSITE IRON WORKS ("Pitt," Patent Folding), 136 W. 24th, New York. (See adv. index, end of book)

Gates (Bronze)

Barnum, E. T., Wire & Iron Works, 82 Washington av., Detroit, Mich.
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Brown Bros. Mfg. Co., 22d & Campbell av, Chicago, Ill.
Buffalo Wire Works Co., Buffalo, N. Y.
Burkhardt, John, 614 W 55th, New York
CABARET, PAUL E. & CO., 342 W 14th, New York. (See adv. index, end of book)
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)
FLOUR CITY ORNAMENTAL IRON WORKS, 27th st & 23th av., Minneapolis, Minn. (See adv. index, end of book)
Gaumer, John L. & Co., 22d & Wood, Philadelphia, Pa.
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
HALSTED, JOS. CO., 388 W. Randolph, Chicago, Ill. (See adv. index, end of book)
Heath-Johnson Co. (Inc.), 123 Ontario, Chicago, Ill.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Henry-Bonnard Bronze Co., Mount Vernon, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq), New York. (See adv. index, end of book)
Manhattan Brass Co., 334 E 28th, New York
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Mott, J. L. Iron Works, 118 5th av., New York
PITT, WM. R. COMPOSITE IRON WORKS, 136 W. 24th, New York. (See adv. index, end of book)
Richey, Browne & Donald, Maspeth, Borough of Queens, New York City
SCHREIBER, L. & SONS CO., 8th & Eggleston av., Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
SNEAD & CO. IRON WORKS, Jersey City, N. J. (See adv. index, end of book)
SOMMERVILLE IRON & BRONZE CO., 5637-5649 Butler, Pittsburg, Pa. (See adv. index, end of book)
STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)
Tiffany Studios, 347 Madison av., New York
TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Union Equipment and Bronze Co., 1901 Park
av, cor 120th st, New York
VULCAN CO., Detroit, Mich. (See
adv. index, end of book)
Wells Architectural Iron Co., 219-221 E.
144th, New York

Williams, John, 556 W 27th, New York
WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W. Harrison, Chicago,
Ill. (See adv. index & branch offices, end
of book)

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)

*Gates (Bronze & Iron)

BOLLES, J. E. IRON & WIRE WORKS,
Detroit, Mich. (See adv. index, end of
book)

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. in-
dex, end of book)

STANDARD CO., Railway Exchange bldg.,
Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, Ohio. (See
adv. index & branch offices, end of book)

Gates (Car)

Brill, J. G. Co. ("Brill" Folding), 62d &
Woodland av, Phila., Pa.
Jewett Car Co. ("Jewett"), Newark, O.

Gates (Coal Pocket)

Stuebner, G. L. Iron Works, 12th & Vernon av,
Long Island City, N. Y.
Union Iron Works Hoboken, N. J.

Gates (Driveway & Entrance)

ANCHOR POST IRON WORKS, 19
Cortlandt, New York. (See adv. index, end
of book)

Barnum, E. T., Wire & Iron Works, 82 Wash-
ington av, Detroit, Mich.
Belmont Iron Works, 22d & Wash'n av, Phila.,
Pa.

BOLLES, J. E. IRON & WIRE WORKS,
Detroit, Mich. (See adv. index, end of
book)

CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)
City Forge & Iron Works (Andrew Plocher
Prop.), Dayton, O.

Dow Wire & Iron Works, Louisville, Ky.
FLOUR CITY ORNAMENTAL IRON
Works, 27th st & 28th av, Minneapolis,
Minn. (See adv. index, end of book)

HALSTED, JOS. CO., 388 W. Ran-
dolph, Chicago, Ill. (See adv. index, end of
book)

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York. (See adv. in-
dex, end of book)

MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)
Peters, David & Son, Gate & Fence Co. (Auto-
matic), Homer, Ill.

PHOENIX STEEL CO. (Inc.), Putnam
& P. R. R., Pittsburg, Pa. (See adv. in-
dex, end of book)

PITT, WM. R. COMPOSITE IRON
Works, 136-138 W. 24th, New York. (See
adv. index, end of book)

REMPPIS, WM. F. CO., Reading, Pa.,
& 1506 Sansom, Phila., Pa. (See adv. in-
dex, end of book)

SCHREIBER, L. & SONS CO., 8th & Eg-
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ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)

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index, end of book)

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Camden, N. J. (See adv. index, end of book)

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index, end of book)

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INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)
 National Fire Appliance Co., 161 Franklin, Boston, Mass.
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 Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Slocomb, J. T. Co., Providence, R. I.
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 Schaeffer & Budenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

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LUNKENHEIMER CO. ("Triplex"), Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index, end of book)
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Gauges (Gasoline)

(See Indicators, Fuel Level)

Gauges (Gas Recording Pressure)

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BRISTOL CO. ("Bristol's"), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)

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INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

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Phoenix Meter Co., Camden, N. J.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURGH METER CO. (Pressure & Volume), East Pittsburgh, Pa.

Schaeffer & Budenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

Uehling Instrument Co., Passaic, N. J.

Gauges (Gas Retort)

MORSE THERMO GAGE CO., Ithaca, N. Y. (See adv. index, end of book)

Taylor Instrument Co., Rochester, N. Y.

Gauges (Gear)

Boston Gear Works (Steel Gear Gauges for Testing Depth of Gear Teeth, etc.), Norfolk Downs, Mass.

*Gauges (Hydraulic Recording)

(See also Gauges, Water)

BRISTOL CO. ("Bristol's"), Waterbury, Conn. (See adv. index & branch offices, end of book)

INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

NATIONAL GAUGE CO. ("National"), 168 8th, B'klyn, N. Y. (See adv. index end of book)

Gauges (Inspectors')

Ashcroft Mfg Co., 85 Liberty, New York
INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

NATIONAL GAUGE CO., 168 8th, B'klyn, N. Y. (See adv. index, end of book)

Schaeffer & Budenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

STARRETT, L. S. CO. (For Steel Plates etc.), Athol, Mass. (See adv. index & branch offices, end of book)

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Gauges (Jointed)

Millers Falls Co. ("Perfection"), 28 Warren New York; Works: Millers Falls, Mass

Gauges (Keyseat or Splining)

Wyke, Jno. & Co., 898 Saratoga, E. B., Boston Mass

Gauges (Limit)

Brown & Sharpe Mfg. Co., Providence, R. I.
Pratt & Whitney Co., Hartford, Conn.
Rogers, Jno. M. Works, Gloucester City, N. J.
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Gauges (Locomotive)

(See Gauges, Steam)

Gauges (Loss of Head & Rate of Flow)

Simplex Valve & Meter Co., 112 N Broad, Phila., Pa.

Gauges (Lumber)

Filer & Stowell Co., Milwaukee, Wis.
Lufkin Rule Co., Saginaw, Mich.

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Stanley Rule & Level Co., New Britain, Conn.

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HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

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 R. I.
 Smith, E. G. Co. ("Columbia" Screw, etc.),
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BRISTOL CO. ("Bristol's" Record-
 ing), Waterbury, Conn. (See adv. index &
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 of Air in Mines) Scranton, Pa.

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BRISTOL CO. ("Bristol's" Record-
 ing), Waterbury, Conn. (See adv. index &
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 N. Y.

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 Pratt & Whitney Co., Hartford, Conn.
 WELLS BROS. CO., Greenfield, Mass.
 (See adv. index, end of book)

***Gauges (Plumbers')**

BERNZ, OTTO (Testing), S 13th & S
 Orange av, Newark, N. J. (See adv. index,
 end of book)

Gauges (Rain)

International Instrument Co. ("Ferguson"), 23
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 Tagliabue, Chas. J. Mfg. Co., 51 Fulton, New
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 Taylor Instrument Co., Rochester, N. Y.

Gauges (Recording Pressure)

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 Ashcroft Mfg. Co. ("Edson"), 85 Liberty, New
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 Ashton Valve Co., 271 Franklin, Boston, Mass.
 BRISTOL CO. ("Bristol's"), Water-
 bury, Conn., & 144 Liberty, New York. (See
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Cleveland Steam Gauge Co., 1619 Mervin, N.
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 CROSBY STEAM GAGE & VALVE
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 index & branch offices, end of book)
 INDUSTRIAL INSTRUMENT CO., Fox-
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 offices, end of book)
 LUNKENHEIMER CO., General Of-
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 cinnati, O. (See adv. index & branch of-
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 30th & Liberty av, Pittsburgh, Pa. (See
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 Mercury), 911 Ridge av, Phila, Pa.
 Schaeffer & Rudenberg Mfg. Co. ("Metropol-
 tan," "Columbia," "Perfect," "Contin-
 ous"), 963 Kent av, Brooklyn, N. Y.
 Sherwood Mfg. Co., Buffalo, N. Y.
 Uehling Instrument Co., Passaic, N. J.

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BRISTOL CO., Waterbury, Conn., &
 114 Liberty, N. Y. (See adv. index & branch
 offices, end of book)

Gauges (Recording Vacuum)

BRISTOL CO. ("Bristol's"), Water-
 bury, Conn., & 117 Liberty, New York. (See
 adv. index & branch offices, end of book)
 INDUSTRIAL INSTRUMENT CO., Fox-
 boro, Mass. (See adv. index & branch of-
 fices, end of book)
 PITTSBURGH GAGE & SUPPLY CO.,
 30th & Liberty av, Pittsburgh, Pa. (See
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 Uehling Instrument Co., Passaic, N. J.

Gauges (Revolution Recording)

Uehling Instrument Co., Passaic, N. J.

Gauges (Rolling Mill)

Brown & Sharpe Mfg. Co., Providence, R. I.

Gauges (Rule)

Miller, A. W., Mfg. Co. ("Howell" Nevada
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Gauges (Saw)

Atkins, E. C. & Co. (Inc.), Home Offices & Fac-
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 Disston, Henry & Sons (Inc.), Tacony, Phila.
 Hoe, R. & Co., 504 Grand, New York
 Kilborn & Bishop Co., ("The Champion
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 Prouty, C. & Co., Eldred, Pa.
 Robinson, J. J., Bloomsburg, Pa.
 Seymour & Whitlock, 43 Lawrence, Newark
 Simonds Mfg. Co., Fitchburg, Mass.
 Smith, H. B. Machine Co., Smithville, N. J.

Gauges (Scratch)

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 Goodell-Pratt Co., Greenfield, Mass.
 HAMMACHER, SCHLEMMER & CO.,
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 end of book)
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
 STARRETT, L. S. CO., Athol, Mass. (See
 adv. index & branch offices, end of book)
 Welch, T. F. & Co., 65 Sudbury, Boston

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Athol Machine Co. ("Boss," etc.), Athol, Mass.
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 end of book)
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 Pratt & Whitney Co., Hartford, Conn.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Smith, E. G. Co., Columbia, Pa.
 STARRETT, L. S. CO., Athol, Mass. (See
 adv. index & branch offices, end of book)
 WELLS BROS. CO., Greenfield, Mass.
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Gauges (Sheet Metal)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Pratt & Whitney Co. (Declmal), Hartford,
 Conn.

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Hoggson & Pettis Mfg. Co., New Haven,
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Billings & Spencer Co., Hartford, Conn.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 CLEVELAND TWIST DRILL CO., Lake-
 side av & 49th, Cleveland, O. (See adv.
 index, end of book)
 Pratt & Whitney Co., Hartford, Conn.
 WELLS BROS. CO., Greenfield, Mass.
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 Ashcroft Mfg. Co., 85 Liberty, New York
 Ashton Valve Co., 271 Franklin, Boston, Mass.
 Aztec Mfg. Co. ("Spencer & Fisher"), San
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 Bogardus, H. A., & Co. (Vacuum Pressure),
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Taylor Instrument Co. (for Vacuum Pressure),
Rochester, N. Y.

Uehling Instrument Co., Passaic, N. J.

U. S. Gauge Co., 67 Wall, New York

Utica Steam Gauge Co., 90 West, New York

Williams, D. T., Valve Co., 410 E 8th, Cin-
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Billings & Spencer Co., Hartford, Conn.

Brown & Sharpe Mfg. Co., Providence, R. I.

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STARRETT, L. S. CO., Athol, Mass. (See
adv. index & branch offices, end of book)

Wyke, John & Co. (Combination), 898 Saratoga,
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Thread), Providence, R. I.

Pratt & Whitney Co., Hartford, Conn.

Sawyer Tool Mfg. Co., Fitchburg, Mass.

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WELLS BROS. CO., Greenfield, Mass.
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Gauges (Tie Plate)

Buda Foundry & Mfg. Co. ("Ware"), Railway
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Buda Foundry & Mfg. Co. ("Huntington," "Caf-
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Church, New York

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end of book)

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Smith, Otis A. (Countersunk and Depth), Rock-
fall, Conn.

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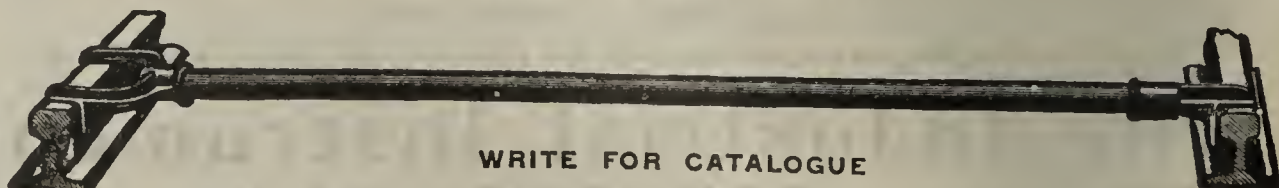
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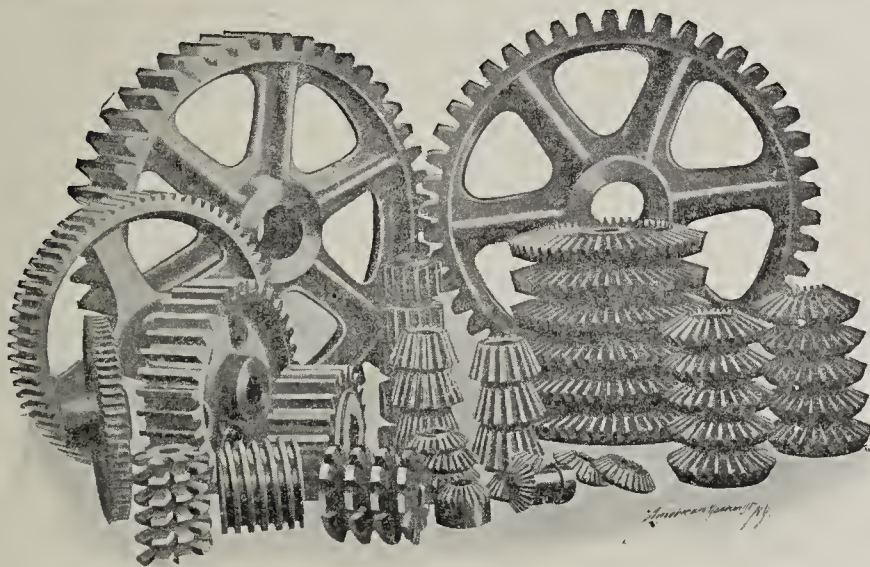
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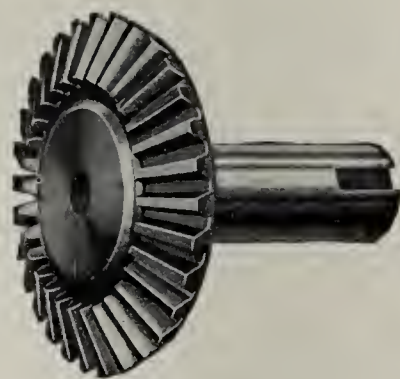


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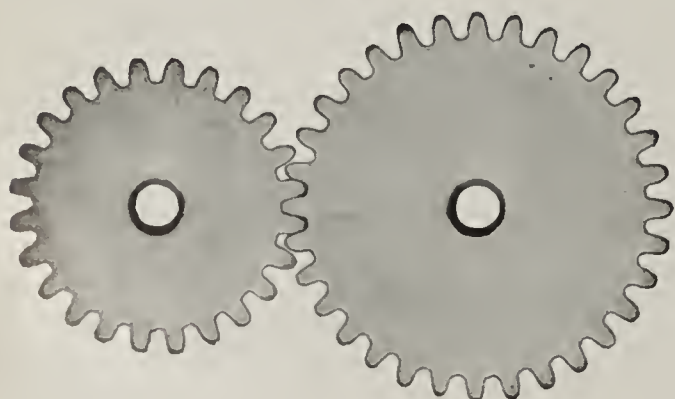
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BRISTOL CO. ("Bristol's" Water Level), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)

Buckeye Iron & Brass Works, Dayton, O.
Canton Brass Co., Canton, O.
Cleveland Steam Gauge Co., Cleveland, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Detroit Brass Works, Detroit, Mich.
Detroit Lubricator Co. (Expansion Tank), Detroit, Mich.

Farnan Brass Works (Safety), Cleveland, O.
Gregory, G. M., 214 Front, New York
Haydenville Co., Haydenville, Mass.
Huyette, Paul B. Co. (The "P. B. H." Quick Closing), Betz bldg. Philadelphia, Pa.

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McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Michigan Lubricator Co. ("Michigan," Self-Cleaning, Automatic, etc.), Detroit, Mich.

NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y. (See adv. index, end of book)

Nelson, Charles, 439 E 10th, New York
Nolte Brass Co., Springfield, O.
Northern Specialty Co. ("Northern" Self-Closing Safety), Utica, N. Y.

Ohio Brass Co. ("Ohio"), Mansfield, O.
Penberthy Injector Co. (Automatic), 346 Holden av, Detroit, Mich.

PITTSBURGH GAGE & SUPPLY CO. (Self-Closing), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

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Pratt & Cady Co., 556 Capitol av, Hartford, Conn.

Queen City Brass & Iron Works, Cincinnati, O.
Reliance Gauge Column Co. (Reliance Lever, Quick Closing), 5902 Carnegie, S E, Cleveland, O.

Roberts Brass Mfg. Co., 963 Kent av, B'klyn, N. Y.

Schaeffer & Budenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

Sherwood Mfg. Co., Buffalo, N. Y.
Star Brass Mfg. Co., 103 E. Dedham, Boston, Mass.

Swift Lubricator Co., Elmira, N. Y.
Thomas Brass & Iron Co., Waukegan, Ill.

Van Duzen E. W. Co., 428 E 2d, Cincinnati, O.
Western Valve Co., 43 W Randolph, Chicago, Ill.

Williams Gauge Co. ("Williams" Quick Closing), Pittsburg, Pa.

Wright Mfg. Co. ("The Wright" Water Pressure, Self-Closing), Detroit, Mich.

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Uebbing Instrument Co., Passaic, N. J.

Gauges (Water Pressure)

(See Gauges, Water)

***Gauges (Water, Self-Cleaning)**

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Gauges (Wheel)

Curran, F., Susquehanna, Pa.
Gage Tool Co. ("Gage" Marking), Vineland, N. J.

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Brown & Sharpe Mfg. Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

HAMMACHER, SCHLEMMER & CO., 133 4th av, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.
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Vulcan Hardware Co., Carlstadt, N. J.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Gauges (Wireman's Calculating)

Manhattan Electrical Supply Co., 17 Park pl, New York, & 188 5th av, Chicago, Ill.

Gauges (Worm Thread Tool)

Brown & Sharpe Mfg. Co., Providence, R. I.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Gear Blanks

AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)

Electric Weeding Products Co. (Steel), Cleveland, Ohio

GANSCHOW, WM. CO. (Castings & Forgings), 270 Washington boul, Chicago, Ill. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

***Gear Blanks (Rawhide)**

(See also Gears & Pinions, Rawhide)

GANSCHOW, WM. CO., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)

Gear Cases

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)

Columbia Machine Works & Mal. Iron Co. ("Columbia" All Steel), Atlantic av & Chestnut, Brooklyn, N. Y.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Lyon Metallic Mfg. Co. ("Lyon" Sheet Steel), Aurora, Ill.

Morris, Elmer P. Co. ("Corbett"), 90 West, New York

Woolley Electric Co., Clayton, Mo.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

***Gear Cases (Car Motor)**

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Gear Cutting Machines

(See Machines, Gear Cutting)

Gearing (Cane Mill)

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FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)

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JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)

NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.

VAN DORN & DUTTON CO., 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)

***Gearing (Flexible Chain)**

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Welss, H. & Co., 20 Cliff, New York

Gearing (Wharf Drop)

American Ship Windlass Co., Providence, R. I.

Gears (Automobile Equalizing)

Borbein Auto Co., 2109 N 9th, St. Louis, Mo.
Brown-Lipe Gear Co., 208 S Geddes, Syracuse, N. Y.

Brown & Sharpe Mfg. Co., Providence, R. I.
Bultman, F. H. & Co., 2108 Superior, Cleveland, Ohio

Cullman Wheel Co., 1030 Dunning, Chicago, Ill.
Dayton Electrical Mfg. Co. ("Gray"), 32 S St. Clair, Dayton, O.

FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)

Forg. Peter, 50 Park, Somerville, Mass.
GANSCHOW, WM. CO., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)

Garford Co., Elyria, O.
Gleason Works, Rochester, N. Y.

Globe Machine & Stamping Co., 970 Hamilton, Cleveland, O.

Long Arm System Co., Cleveland, Ohio.
Lowe Bros. Machine Works (Rear Axle & Equalizing Gear Combined), 38 W Town, Cleveland, O.

Muncie Auto Parts Co., Muncie, Ind.
NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

Providence Engineering Works, Providence, R. I.
Relay Motor Car Co. ("Wyoma"), Reading, Pa.

Ross Gear & Tool Co., Lafayette, Ind.
Smith, A. O. Co., Clinton bet Park & Virginia, Milwaukee, Wis.

Spacke, F. W. Mch. Co., Indianapolis, Ind.
Steel Ball Co., 832 Austin av, Chicago, Ill.

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Virtue & Pound Mfg. Co., Owatonna, Minn.
Warner Gear Co. ("Warner"), Muncie, Ind.

Webster Mfg. Co., 1075 W 15th, Chicago, Ill.

Gears (Automobile Running)

Auto Supply Co., 1662 B'way, New York.
Borbein Auto Co., 2108 N 9th, St. Louis, Mo.

Covert Motor Vehicle Co., Lockport, N. Y.
Dyke, A. L. Automobile Supply Co., Walton & Olive, St. Louis, Mo.

Elwell-Parker Electric Co., Hamilton, Cleveland, Ohio

Light Mfg. & Foundry Co., Union & Queen, Pottstown, Pa.

Locke Regulator Co., Salem, Mass.
Loomis Autocar Co., Westfield, Mass.

Muncie Wheel & Jobbing Co., Muncie, Ind.
Neustadt Automobile & Supply Co., 826 S 18th, St. Louis, Mo.

NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

Relay Motor Car Co. ("Wyoma"), Reading, Pa.
Smith, A. O. Co., Clinton bet Park & Virginia, Milwaukee, Wis.

Standard Roller Bearing Co., 49th & Girard av, Philadelphia, Pa.

Torhensen Motor Car Co., Bloomfield, N. J.
VAN DORN & DUTTON CO., 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)

Walker, E. C. Co., Louisville, Ky. (See adv. index, end of book)

Wall, R. C. Mfg. Co., 1334 Race, Phila., Pa.

***Gears (Automobile Speed)**

MERCHANT & EVANS CO. (Inc.), 517 Arch, Philadelphia, Pa. (See adv. index & branch offices, end of book)

VAN DORN & DUTTON CO., 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)

Gears (Automobile Steering, Irreversible)

Borbein Auto Co., 2108 N 9th, St. Louis, Mo.
 Boston Gear Works, Norfolk Downs, Mass.
 Browu-Lipe Gear Co., 208 S Geddes, Syracuse, N. Y.
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, Ohio
 Chester Engineering & Machine Co., Chester, Pa.
 Columbus Screw & Machine Co. ("Columbus"), Columbus, Ohio
 Elyria Machine Parts Co., Elyria, Ohio.
 Garford Co., Elyria, O.
GENERAL ELECTRIC CO. ("Lemp"), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Locke Regulator Co., Salem, Mass. (of book)
 Morse, Williams & Co. (Hindley), West End Trust bldg., Philadelphia, Pa.
 Noye Mfg. Co., 50 Lakeview av., Buffalo, N. Y.
 Smith, A. O. Co., Clinton bet Park & Virginia, Milwaukee, Wis.
 Steam Carriage Boiler Co., Oswego, N. Y.
VAN DORN & DUTTON CO., 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)
 Weher, C. F. Mfg. Works, Albany, N. Y.
WIDMER MACHINE WORKS, Detroit, Mich. (See adv. index, end of book)

Gears (Automobile Steering, Reversible)

Borbein, H. F. & Co., 2108 N 9th, St. Louis, Mo.
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, Ohio
 Dyke, A. L. Automobile Supply Co., Walton & Olive, St. Louis, Mo.
 Nenstadt, J. H. Co., 826 S 18th, St. Louis, Mo.
 Smith, A. O. Co., Clinton bet Park & Virginia, Milwaukee, Wis.
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WIDMER MACHINE WORKS, Detroit, Mich. (See adv. index, end of book)

*Gears (Brick Machinery)

FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)
GANSCHOW CO. WM., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
 Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.

*Gears (Car Motor)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
VAN DORN & DUTTON CO., 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)

Gears (Cement Machinery)

Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)
GANSCHOW, WM. CO., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)
 Horsburgh & Scott Co., 5114 Hamilton, Cleveland, O.
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
 Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
VAN DORN & DUTTON CO., 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)

Gears (Cut)

Allentown Foundry & Machine Works (Bevel, Mitre, Mortise, Spur, etc.), Allentown, Pa.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Arthur Co., 188 Front, N. Y. (of book)
 Bligrom, Hugo (Bevel, Mitre, Mortise, Spur, etc.), 1235 Spring Garden, Phila., Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Mount & Lovell (Gear Cutting), 100 High, Boston, Mass.
 Boston Gear Works (Bevel Mitre, Mortise Spur, etc., also Brass), Norfolk Downs, Mass.
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Buffalo Gear & Pattern Works, 18 Elk, Buffalo, N. Y.
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
 Caldwell, H. W., & Son Co. ("Caldwell-Walker" Spur, Spur Mortise, Bevel, Bevel Mortise, Miter), 17th & Western av., Chicago, Ill.
 Chickasaw Iron Works, Memphis, Tenn.
COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)
 Cresson, Geo. V. Co., Allegheny av. W of 17th, Phila., Pa., & West St Bldg, N. Y.
DAVIS, RODNEY (All Kinds), 629 Race, Phila., Pa. (See adv. index, end of book)
 Dodge Mfg. Co., Mishawaka, Ind. (of book)
 Eagle Tool & Machine Co. (Also Rack), 51 Ann, Allegheny, Pa.
 Earle Gear & Machine Co. (of all Descriptions), Stanton & Wyoming avs., Phila., Pa.
 Elmira Machine Co., Elmira, N. Y.
 Farrel Foundry & Machine Co. (Machine Cut) Ansonia, Conn.

FAWCUS MACHINE CO. (Steel, Iron, Bronze & Rawhide), 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
 Fellows Gear Shaper Co., Springfield, Vt.
 Fogarty, James H. (Electric Railway Sectional), 126 Liberty, New York
FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)
 Frost Gear & Machine Co. (Bevel, Spiral, Spur), Jackson, Mich.
GANSCHOW, WM. CO. (Bevel, Mitre, Mortise, Spur, etc.), 270 Washington boul, Chicago, Ill. (See adv. index, end of book)
 Gleason Tool Co., Rochester, N. Y.
 Gould & Eberhardt (Spiral, Spur, Mitre, Bevel, Worm, etc.), Newark, N. J.
 Grant Gear Works, 6 Portland, Boston, Mass.
 Greenwald, I. & E. Co., 720 E Pearl, Cincinnati, O.
 Hardinge Bros., 1036 Lincoln av., Chicago, Ill.
 Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.
 Holyoke Machine Co., Holyoke, Mass.
 Horsburgh & Scott Co., Cleveland, O.
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
 Jones, B. D. & Sons Co. (Bevel, Mitre, Mortise, Spur, etc.), Pittsfield, Mass.
 Kentucky Gear & Machine Co., Louisville, Ky.
 Lane Mfg. Co., Montpelier, Vt.
 Lauer, Jno. Machine Co., Detroit, Mich.
 Loeffel, Jas. & Co., Springfield, O.
 Luk Belt Co. (Bevel, Mitre, Spur, etc.), West 39th & Stewart ave., Chicago, Ill., & 299 B'way, New York
 Medart Patent Pulley Co. (Plain or Mortise), 3500 De Kalb a., St. Louis, Mo.
 Melsel Press & Mfg. Co., Boston, Mass.
 Mesta Machine Co., Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHINE CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Newark Gear Cutting Machine Co. (All Kinds), Newark, N. J.
 New Process Rawhide Co. (Cut Rawhide), Syracuse, N. Y.
 New York Gear Works, 56 Greenplut av., Brooklyn, N. Y.
 Nordyke & Marmon Co. (Mitre, Iron, Spur, Bevel, Mortise, etc.), Indianapolis, Ind.
NUTTALL, R. D. CO. (Spur, Bevel, Mitre, Spiral, Worm & Herringbone), Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
 Pacific Gear & Tool Works (Bevel, Mitre, Mortise, Spur, etc.), 523 Mission, San Francisco, Cal.
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 211 Center, New York
 Philadelphia Gear Works (Inc.), (Bevel Planed Teeth), 12th & Vine, Phila., Pa.
QURIDE CO. ("Quride"), Syracuse, N. Y. (See adv. index, end of book)
 Pioneer Machine Works (Jas. Hartley, Prop.), 75 Delavan, Brooklyn, N. Y.
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
 Platt Iron Works Co., Dayton, O., & 100 B'way, New York
 Poole Engineering & Mach. Co., Baltimore, Md.
 Redington, F. B. Co., 35 Monroe, Chicago, Ill.
 Sawyer Gear Works, 102 St. Clair, Cleveland, O.
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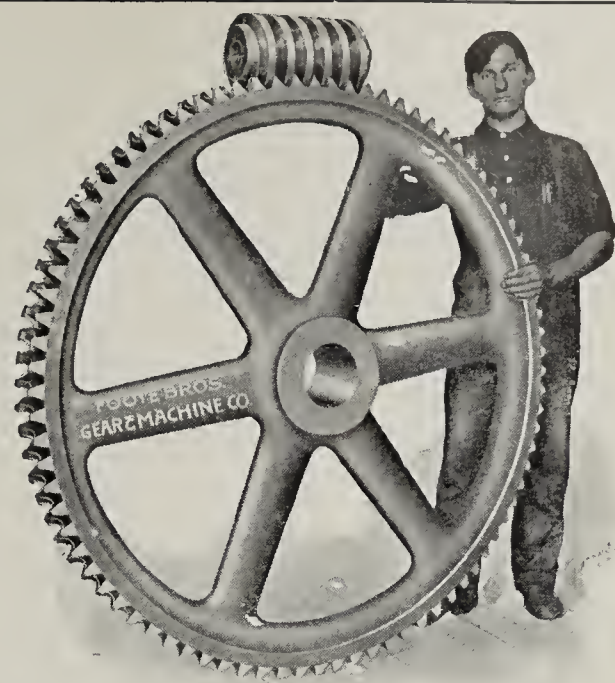
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 Townsend Furnace & Machine Shop Co. (Spur, etc.), Albany, N. Y.
 Trump Mfg. Co., Springfield, O.
 Turley, H. G., 214 Locust, St. Louis, Mo.
 Union Foundry & Machine Co., Pittsburg, Pa.
VAN DORN & DUTTON CO. (For all Purposes), 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Walcott, Geo. & Son, Jackson, Mich.
WEBSTER MFG. CO. (Bevel, Spiral, etc.), 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)
WIDMER MACHINE WORKS, Detroit, Mich. (See adv. index, end of book)
 Wolburn Gear Works, Wolburn, Mass.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Gears (Fibre)

AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)
 Boston Gear Works, Norfolk Downs, Mass.
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
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DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)
 Dodge Mfg. Co., Mishawaka, Ind.
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NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
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WILMINGTON FIBRE SPECIALTY CO., Wilmington, Del. (See adv. index, end of book)

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JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
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GANSCHOW, WM. CO., 270 Washington boul., Chicago, Ill. (See adv. index, end of book)
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
 Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)

Gears (Friction Clutch)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
 Chickasaw Iron Works, Memphis, Tenn.
 Dodge Mfg. Co., Mishawaka, Ind.
 Earle Gear & Machine Co., Stenton & Wyoming avs., Phila., Pa.
 Ehrsam, J. B. & Sons Mfg. Co., Euterprise, Kan.
 Hunt, Rodney Machine Co., Orange, Mass.
 Medart Patent Pulley Co., 3500 DeKalb av., St. Louis, Mo.
 National Gear Wheel & Fdy. Co., Allegheny, Pa.
 Noye Mfg. Co., 50 Lakeview av., Buffalo, N. Y.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
 Poole Engineering & Mach. Co., Baltimore, Md.
VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)

Gears (Internal)

Bilgram, Hugo, 1235 Spring Garden, Phila., Pa.
 Boston Gear Works, Norfolk Downs, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
 Caldwell, H. W., & Son Co. ("Caldwell-Walker"), 17th & Western av., Chicago, Ill.
DAVIS, RODNEY, 626 Race, Phila., Pa. (See adv. index, end of book)
 Dodge Mfg. Co., Mishawaka, Ind.
 Earle Gear & Machine Co., Stenton & Wyoming avs., Phila., Pa.
FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)
 Frost Gear & Machine Co., Jackson, Mich.
GANSCHOW, WM. CO., 270 Washington boul., Chicago, Ill. (See adv. index, end of book)
 Gleason Works, Rochester, N. Y.
 Gould & Eberhardt, Newark, N. J.
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
 Meisel Press & Mfg. Co., 944 Dorchester av., Boston, Mass.
 Newark Gear Cutting Machine Co., Newark, N. J.
 New Process Raw Hide Co., Syracuse, N. Y.
 Noye Mfg. Co., 50 Lakeview av., Buffalo, N. Y.
NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
 Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
QURIDE CO ("Quride"), Syracuse, N. Y. (See adv. index, end of book)
 Poole Engineering & Mach. Co., Baltimore, Md.
 Sommerfeld Machine & Mfg. Co. (Steel, Cast Iron or Brass), Pittsburg, Pa.
 Syracuse Rawhide Mfg. Co., Syracuse, N. Y.
 Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
 Union Foundry & Machine Co., Pittsburg, Pa.
VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)
 Welch, T. F. Co. (Brass), 55 Sudbury, Boston, Mass.
WIDMER MACHINE WORKS, Detroit, Mich. (See adv. index, end of book)

Gears (Machine Moulded)

American Brake Shoe & Foundry Co., Mahwah, N. J., & Western Union bldg., Chicago, Ill.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Birdsboro Steel Foundry & Machine Co. (Iron & Steel), Birdsboro, Pa.
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
 Buda Foundry & Machine Co., Railway Exchange bldg., Chicago, Ill.
 Caldwell, H. W. & Son Co. ("Caldwell-Walker"), 17th & Western av., Chicago, Ill.
 Cresson, Geo. V. Co., Allegheny av., W of 17th, Dodge Mfg. Co., Mishawaka, Ind., Phila., Pa.
 Furrel Foundry & Machine Co., Ansonia, Conn.
FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
 Gleason Tool Co., Rochester, N. Y. (See adv. index, end of book)

Greenwald, I. & E. Co., 720 E Pearl, Cincinnati, O.
 Mesta Machine Co., Lewis blk., Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 National Gear Wheel & Foundry Co., South av & Walker, Pittsburg, Pa.
 Plamondon, A. Mfg. Co., 57 S Clinton, Chicago, Ill.
 Poole Engineering & Machine Co., Baltimore, Md.
 Shriver, T. & Co., Harrison, N. J.
 Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
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VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)

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 Auto Engine Works, St. Paul, Minn.
 Automatic Clutch Co., Akron, O.
 Ball Mfg. Co., Stamford, Conn.
 Brodie, Wm. H. Co. ("Perfection"), 46 Vesey, New York
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 Brown & Sharpe Mfg. Co., Providence, R. I.
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
 Continental Motor Mfg. Co., Muskegon, Mich.
 Cross, M. O. Engine Co., Detroit, Mich.
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 Eastern House Engine Co., Taunton, Mass.
FAWCUS MACHINE CO. (Repair Parts), 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
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GANSCHOW, WM. CO., 270 Washington boul., Chicago, Ill. (See adv. index, end of book)
 Gies Gear Co. ("Gies") for Gasoline Motor Boats, 345 Bellevue av., Detroit, Mich.
 Graud Rapids Gas Engine & Yacht Co., Grand Rapids, Mich.
 Holliday Mfg. & Engineering Co., 160 Bunker, Chicago, Ill.
 Harvard Marine & Auto. Co. ("Hub"), Cambridge, Mass.
 Inventor Mfg. Co. ("Adams"), 134 Elliot, Boston, Mass.
 Jager, Chas. J. Co., 281 Franklin, Boston, Mass.
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
 Johnson, Carlyle Machine Co., 356 Asylum, Hartford, Conn.
 Kaestner, Chas. Mfg. Co., South Bend, Ind.
 Kalb & Berger Mfg. Co., 60 Centre, New York
 Michigan Wheel Co., Grand Rapids, Mich.
 Milwaukee Auto. Engine & Supply Co., Milwaukee, Wis.
 New York Gear Works ("Ball") Improved Reverse Gear for Motor Boats, 56 Greenpoint av., Brooklyn, N. Y.
NUTTALL, R. D. CO. (Repair Parts), Fayette, Pittsburg, Pa. (See adv. index, end of book)
 Perfection Reversing Gear & Supply Co. ("Perfection"), 45 Vesey, New York
 Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
 Snow & Petrelli Mfg. Co. ("Joe's"), New Haven, Conn.
 Tuttle, H. A. Mfg. Co., Kaiser pl., E. N., Norwalk, Conn.
VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)

Gears (Marine Steering, Hand & Steam)

Akers Steering Gear Co. ("Akers Emergency"), Old Colony bldg., Chicago, Ill.
 Bultman, F. H. & Co., 2108 Superior Viaduct, Cleveland, O.
 Duke Engine Co. (Steam), Grand Haven, Mich.
 Durkee, C. D. & Co. (Hand), 2 South, New York
 Edison Mfg. Co. (Hand), Boston, Mass.
 Forbes, W. D., Co. (Hand), New London, Conn.
 Hyde Windlass Co. ("Brown" Steam), Bath, Me.
 Johnston, Wm. T. Co. ("Cincinnati" Steam), Cincinnati, O.
 Laughlin, Thomas Co. (Hand), 143 Fore, Portland, Me.
 Lockwood Mfg. Co. ("Reeds" Hand), 61 Summer, Boston, Mass.
 Marine Hardware Co. (Hand), Peabody, Mass.

Marine Mfg. & Supply Co. ("Columbia," "Lavarek," "Planet," Hand), 158 South, New York
 Pawling & Harnischfeger (Steam), 38th & National avs, Milwaukee, Wis.
 Philadelphia Machine Works (Steering Engines), 67 Laurel, Philadelphia, Pa.
 Richardson's, N. Sons ("Challenge," "Little Giant" Hand), Gloucester, Mass.
 Sheriffs Mfg. Co., Milwaukee, Wis.
 Stoddart, A. P. & Co. (Hand), Gloucester, Mass.
 Textile Finishing Machine Co. (Steam), 17 Exchange pi, Providence, R. I.
 Turner Brass Works (Hand), Chicago, Ill.
VAN DORN & DUTTON CO., 2714 E. 79th S E, Cleveland, O. (See adv. index, end of book)
 Verdon, Fred'k A. Co. (Steam), W. New Brighton, S. I., N. Y.
 Williamson Bros. Co. (Steam), Phila., Pa.

Gears (Mill)

BROWN, A. & F. CO., 25 Dey, New York. Works: Ellzabethport, N. J. (See adv. index, end of book)
FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
 Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.
VAN DORN & DUTTON CO., 2714 E 79th S E, Cleveland, O. (See adv. index, end of book)

*Gears (Mine Motor)

NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)
VAN DORN & DUTTON CO. (Gears & Repair Parts), 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)

*Gears (Mining Machine)

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GANSCHOW, WM. CO., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)

Gears (Raw Hide)

(See Gears & Pinions, Rawhide)

*Gears (Reduction, for Motors)

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FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)
GANSCHOW, WM. CO., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)

Gears (Reversing)

(See Gears, Marine Reversing)

Gears (Spiral)

(See Gears, Cut)

Gears (Spur)

(See Gears, Cut)

*Gears (Spur Gear Reduction)

FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)
GANSCHOW, WM. CO., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)

Gears (Steering)

(See Gears, Automobile, Steering; also Gears, Marine, Steering)

Gears (Street Car Axle)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Catskill Foundry & Machine Works, Catskill, Cleveland Gear Works, Cleveland, O. N. Y.
 Falk Co., Milwaukee, Wis.
FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
 Horsburg & Scott, Cleveland, O. (See adv. index, end of book)
NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)

Simonds Mfg Co., Pittsburg, Pa.
 Van Dorn & Dutton Co., Cleveland, O.
 Worcester Gear Works, Worcester, Mass.

Gears (Swinging)

Dake Engine Co., Grand Haven, Mich.

Gears (Transmission or Speed Changing)

Auto Supply Co., 1662 B'way, New York
 Autocar Equipment Co. ("Continental"), 240 W Lake, Chicago, Ill.
 Blood Bros. Automobile & Machine Co., Kalamazoo, Mich.
 Brennan Motor Mfg. Co., 101 Grape, Syracuse, N. Y.
 Brown & Sharpe Mfg. Co. (Repair Parts), Providence, R. I.
 Buffalo Engine Co. ("Salisbury"), Buffalo, Cady, C. N. Co., Canastota, N. Y. N. Y.
 Case Mfg. Co., St. Clair & Curtis avs, Columbus, O.

ELECTRIC WHEEL CO (For Farm Trucks), Quincy, Ill. (See adv. index, end of book)

FAWCUS MACHINE CO. (Repair Parts), 2820-2828 Smallman, Pittsburg, Pa. (See adv. index, end of book)
FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)

GANSCHOW, WM. CO., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)
 Gies Gear Co., Detroit, Mich.
JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
 Kaestner, Chas. Mfg. Co., South Bend, Ind.
 Locke Regulator Co., Salem, Mass.
 Loomis Auto Car Co., Westfield, Mass.
 Maxwell & Flitch Co., Rome, N. Y.
 Milwaukee Auto Engine & Supply Co., 706 Winnebago, Milwaukee, Wis.
 Milwaukee Motor Co., 615 Clybourn, Milwaukee, Wis.

Motor Car Power Equipment Co., 577 Grove, Milwaukee, Wis.
 Murray, W. B., 1253 Milw. av, Chicago, Ill.
 New York Gear Works ("Ball" Improved), 56 Greenpoint av, Brooklyn, N. Y.

NUTTALL, R. D. CO. (Repair Parts), Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)
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 Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.

Relay Motor Car Co. ("Wyoma"), Reading, Pa.
 Smith, A. O. Co., Clinton het Park & Virginia, Milwaukee, Wis.
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 Treherst Gas Engine Co., 163 Main, W., Rochester, N. Y.

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VAN DORN & DUTTON CO., 2714 E. 79th S E, Cleveland, O. (See adv. index, end of book)

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 Western Automobile Supply Co., 285 Virginia, Milwaukee, Wis.
 Western Motor Co. ("Rutenher"), Logansport, Ind.

WIDMER MACHINE WORKS, Detroit, Mich. (See adv. index, end of book)

Gears (Worm)

AMERICAN WELL WORKS (Cut & Molded), Aurora, Ill. (See adv. index & branch offices, end of book)
 Arthnr Co., 188 Front, New York
 Bilgram, Hugo, 1235 Spring Garden, Phila., Pa.
 Boston Gear Works, Norfolk Downs, Mass.
BROWN, A. & F. CO., 25 Dey, New York. Works: Ellzabethport, N. J. (See adv. index, end of book)

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 Bultman, F. H. & Co., Cleveland, O.
 Caldwell, H. W. & Son Co. ("Caldwell-Walker"), 17th & Western av, Chicago, Ill.
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DAVIS, RODNEY, 624 Race, Phila., Pa. (See adv. index, end of book)

Dodge Mfg. Co., Mishawaka, Ind.
 Earle Gear & Machine Co., Stenton & Wyomling avs, Phila., Pa.

FAWCUS MACHINE CO. (Steel, Iron, Bronze & Rawhide), 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)

Frost Gear & Machine Co., Jackson, Mich.
GANSCHOW, WM. CO., 270 Washington boul, Chicago, Ill. (See adv. index, end of book)
 Gleason Works, Rochester, N. Y. (See adv. index, end of book)

Gould & Eherhardt, Newark, N. J.
 Horsburgh & Scott Co., 5114 Hamilton, Cleveland, O.

JAMES, D. O. MFG. CO., 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
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Medart Patent Pulley Co., 3500 De Kalh, St. Louis, Mo.
 Meisel Press & Mfg. Co., 944 Dorchester av, Boston, Mass.

Mesta Machine Co., Lewis bldg, Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

National Gear Wheel & Foundry Co., South av & Walker, Allegheny, Pa.
 Newark Gear Cutting Machine Co. (Worm Wheels Generated without Holes), Newark, N. J.

New Process Rawhide Co., Syracuse, N. Y.
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OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)

Pacific Gear & Tool Works, 523 Mission, San Francisco, Cal.
 Philadelphia Gear Works (Inc.) (Brass, etc.), 12th & Vine, Phila., Pa.

Philadelphia Roll & Machine Co., S 23d & Washington av, Phila., Pa.
 Poole Engineering & Mach. Co., Baltimore, Md.
 Sawyer Gear Works, 102 St. Clair, N. W., Cleveland, O.

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 Taylor-Wilson Mfg. Co., McKees Rocks, Pa.

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Vulcan Iron Works, Wilkes-Barre, Pa.
 Welch, T. F. & Co. (Brass), 55 Sudbury, Boston, Mass.

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 Atha Steel Casting Co. ("Titan," Steel for Motor Gears, etc.), Newark, N. J.

Baldwin Chain & Mfg. Co., 31 Hermon, Worcester, Mass.
 Bethlehem Steel Co., South Bethlehem, Pa.

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 Brown & Sharpe Mfg. Co., Providence, R. I.
 Bultman, F. H. & Co., Cleveland, O.

Catskill Foundry & Mach. Works, Catskill, N. Y.
 Cullman Wheel Co. (Sprockets Only), 1024 Greenwood terrace, Chicago, Ill.

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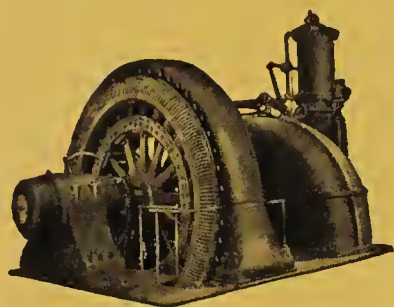
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 boul, Chicago, Ill. (See adv. index, end of book)

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 tady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

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 Grant Gear Works, 6 Portland, Boston, Mass.
 Horsburgh & Scott Co., 5114 Hamilton, Cleveland, O.

JAMES, D. O. MFG. CO., 351 W. Monroe,
 Chicago, Ill. (See adv. index, end of book)

Meisel Press & Mfg. Co., 944 Dorchester av., Boston, Mass.

Mesta Machine Co. (Machine Molded Mill), Pittsburg, Pa.

National Gear Wheel & Foundry Co., North Side, Pittsburg, Pa.

New Process Raw Hide Co., Syracuse, N. Y.

NUTTALL, R. D. CO. (Rawhide Fibre,
 etc.), Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

Ohio Brass Co., Mansfield, O.

Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.

Poole Engineering & Mach. Co., Baltimore, Md.

QURIDE CO. (Quride), Syracuse, N. Y.
 (See adv. index, end of book)

Sawyer Gear Works, Cleveland, O.

Simonds Mfg. Co. Elec. R'y, Pittsburg, Pa.

Syracuse Rawhide Mfg. Co. (Rawhide), Syracuse, N. Y.

Tool Steel Motor Gear & Pinion Co., Cincinnati, O.

VAN DORN & DUTTON CO. (Electric
 Railway), 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)

Western Rawhide & Belting Co. (Rawhide), Milwaukee, Wis.

WIDMER MACHINE WORKS, Detroit,
 Mich. (See adv. index, end of book)

Gears & Pinions (Automobile)

Brown & Sharpe Mfg. Co., Providence, R. I.

FOOTE BROS. GEAR & MACHINE CO.,
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GANSCHOW, WM. CO., 270 Washington
 boul, Chicago, Ill. (See adv. index, end of book)

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 Chicago, Ill. (See adv. index, end of book)

NUTTALL, R. D. CO., Fayette & Gar-
 rison pl., Pittsburg, Pa. (See adv. index, end of book)

Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.

VAN DORN & DUTTON CO., 2714 E. 79th
 S E, Cleveland, O. (See adv. index, end of book)

WIDMER MACHINE WORKS, Detroit,
 Mich. (See adv. index, end of book)

Gears & Pinions (Rawhide)

Boston Gear Works, Norfolk Downs, Mass.

Chicago Rawhide Mfg. Co., Chicago, Ill.

DAVIS, RODNEY, 626 Race, Phila.,
 Pa. (See adv. index, end of book)

Earle Gear & Machine Co., Stenton & Wyom-
 ington avs, Phila., Pa.

FAWCUS MACHINE CO., 2820 Small-
 man, Pittsburg, Pa. (See adv. index, end of book)

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 S E, Cleveland, O. (See adv. index, end of book)

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 Mich. (See adv. index, end of book)

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Benton, Thos. P., & Son (Direct Current, 1 to 100 h. p.), LaCrosse, Wis.

Electric Machinery Co. (Direct Current and One, Two and Three Phase Alternating Current), Minneapolis, Minn.

Ensberg's Electric & Mechanical Works, St. Joseph, Mich.

FAIRBANKS, MORSE & CO., Wabash av
 & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

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 tady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Northern Electrical Mfg. Co., Madison, Wis.

PHOENIX ELECTRIC COMPANY,
 Mansfield, O. (See adv. index, end of book)

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Ridgway Dynamo & Engine Co., Ridgway, Pa.

Sturtevant, B. F. Co., Hyde Park, Mass.

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 ternating), Milwaukee, Wis. (See adv. index & branch offices, end of book)

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Bartx, Evans & Wygant, Hornellsville, N. Y.

Burke Electric Co. (Direct & Alternating), Erie, Pa.

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Eager Electric Co. (Direct Current), Watertown, N. Y.

Electric Machinery Co. (Direct Current and One, Two and Three Phase Alternating Current, Engine and Belted Type, Minneapolis, Minn.

Elwell-Parker Electric Co., Cleveland, O.

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 & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

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Fort Wayne Electric Works, Inc. (Direct & Alternating), Fort Wayne, Ind.

Garwood Electric Co. (Direct), Garwood, N. J.

GENERAL ELECTRIC CO. (Direct & Alternating), Schenectady, N. Y., & 30
 Church, New York. (See adv. index & branch offices, end of book)

Ideal Electric & Mfg. Co. ("Ideal"), Mansfield, Ohio

Jenney Electric Mfg. Co. (Direct & Alternating), Indianapolis, Ind.

Kentucky Electrical Co. (Direct), Owensboro, Ky.

Maine Electric Co., Portland, Me.

MECHANICAL APPLIANCE CO., Milwau-
 kee, Wis. (See adv. index & branch offices, end of book)

Northern Electrical Mfg. Co. (Direct & Alternating), Madison, Wis.

PHOENIX ELECTRIC CO. (Direct & Alternating), Mansfield, O. (See adv. index, end of book)

Ridgway Dynamo & Engine Co., Ridgway, Pa.

Robbins & Myers Co. (Up to 10-K. W.), Springfield, O.

Roth Bros. & Co., Loomis & Adams, Chicago, Ill.

Sprague Electric Co. (Direct Current up to 1,000 Kw.), 527 W 34th, New York

Sterling Electric Motor Co. (Up to 12 K. W.), Dayton, O.

Triumph Electric Co. (Direct Current), 610 Baymiller, Cincinnati, O.

Wagner Electric Mfg. Co. (Direct & Alternating), St. Louis, Mo.

Warren Electric Mfg. Co. (Alternating), Sandusky, O.

Western Electric Co. (Direct & Alternating), 259 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.

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 Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

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 Wis. (See adv. index & branch offices, end of book)

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Burke Electric Co. (Direct & Alternating), Erie, Pa.

Crocker-Wheeler Electric Co. (Direct), Ampere, N. J., & 39 Cortlandt, New York

Diehl Mfg. Co. (Direct), Elizabeth, N. J.

Eager Electric Co. (Direct Current), Watertown, N. Y.

Eddy Electric Mfg. Co. (Direct), Windsor, Conn.

Electric Machinery Co. (Direct Current & One, Two & Three Phase Alternating Current, Engine & Belted Type), Minneapolis, Minn.

Electro-Dynamic Co., 5 Nassau, New York

Elwell-Parker Electric Co. (Direct), Cleveland, O.

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 & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

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Fort Wayne Electric Works, Fort Wayne, Ind.

GENERAL ELECTRIC CO. (Direct & Alternating), Schenectady, N. Y., & 30
 Church, New York. (See adv. index & branch offices, end of book)

General Railway Signal Co., Rochester, N. Y.

Ideal Electric & Mfg. Co. ("Ideal"), Mansfield, Ohio

MECHANICAL APPLIANCE CO., Milwau-
 kee, Wis. (See adv. index & branch offices, end of book)

National Brake & Electric Co. (The "Ceco" Alternating & Direct), Milwaukee, Wis.

Northern Electrical Mfg. Co. (Direct & Alternating), Madison, Wis.

OTIS ELEVATOR CO., 17 Battery pl,
 New York. (See adv. index & branch offices, end of book)

PHOENIX ELECTRIC CO. (Direct & Alternating), Mansfield, O. (See adv. index, end of book)

Richmond Electric Co., Richmond, Va.

Ridgway Dynamo & Engine Co., Ridgway, Pa.

Robbins & Myers Co. (Up to 10 Kw.), Springfield, O.

Sterling Electric Motor Co. (Small Direct Current, up to 12 Kw.), Dayton, O.

Sturtevant, B. F. Co. (Direct), Hyde Park, Mass.

Triumph Electric Co. (Direct Current), 610 Baymiller, Cincinnati, O.

Warren Electric Mfg. Co. (Alternating), Sandusky, O.

WESTINGHOUSE ELECTRIC & MFG. CO. (Direct & Alternating Current), Union
 Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Generators (Street Railway)

(See also Generators, Electric Power; also Dynamos & Motors)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)

American Engine Co., Boundbrook, N. J.

Crocker-Wheeler Co., Ampere, N. J.

FAIRBANKS, MORSE & CO., Wabash av
 & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Garwood Electric Co., Garwood, N. J.

GENERAL ELECTRIC CO., Schenec-
 tady, N. Y., & 30 Church, New York. (See adv. index, end of book)

Kester Electric Co., Terre Haute, Ind.

PHOENIX ELECTRIC CO., Mansfield, O.
 (See adv. index, end of book)

Ridgway Dynamo & Engine Co. ("Thompson-Ryan"), Ridgway, Pa.

Triumph Electric Co., Cincinnati, O.

WESTINGHOUSE ELECTRIC & MFG. CO. (Direct & Alternating), Union B'k bldg,
 Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Giants (Hydraulic)

ABENDROTH & ROOT MFG. CO.,
 Newburgh, N. Y. (See adv. index & branch offices, end of book)

AMERICAN SPIRAL PIPE WORKS,
 W 14th & 48th av, Chicago, Ill. (See adv. index & branch offices, end of book)

*Gibs & Keys

STANDARD GAUGE STEEL CO.,
 Beaver Falls, Pa. (See adv. index, end of book)

Glasbrite for Cleaning Windows

Forbes, Benj. P., 409 Superior av, N W,
Cleveland, O.

Glass (Alabaster Plate)

Bache, Semon, & Co., West & Hubert, New
York

Glass (Antique & Colored)

Bache, Semon, & Co., West & Hubert, New
York

Glass (Art)

(See Glass, Leaded)

Glass Benders

California Art Glass Works, San Francisco,
Cal.

Cincinnati Beveling & Silvering Co., 430 Oliver,
Cincinnati, O.

Donnelly, J. R. Co., 54 Classon av, Brooklyn,
N. Y.

Hadley-Dean Glass Co., 11th & Lucas, St.
Louis, Mo.

Heckerman, F. W. & Co., 120 Opera pl, Cin-
cinnati, O.

Louisville Ornamental Glass Co., Louisville, Ky.

New Kensington Glass Bending Co. (Plate &
Window), Parnassus, Pa.

Oriel Glass Co., 617 Chestnut, St. Louis, Mo.

Pittsburg Plate Glass Co., Frick bldg., Pitts-
burg, Pa.

Penn-American Plate Glass Co., Pittsburg, Pa.

Popper, Leo. & Sons, 7 Sullivan, New York

Potts Bros., 231 Bowery, New York

Smith, M. A., 65 Chambers, Newark, N. J.

Standard Plate Glass Co., Butler, Pa.

Valley City Glass & Paint Co., Grand Rapids,
Mich.

Western Mirror Plate Co., 824 Wade, Cincin-
nati, O.

***Glass (Bent Wire)**

MISSISSIPPI WIRE GLASS CO., 115
B'way, New York. (See adv. index &
branch offices, end of book)

Glass Bevelers

Allegan Mirror Plate Co., Allegan, Mich.

Bloom, Alfred Co., 1502 California, Omaha,
Neb.

California Art Glass Works, San Francisco,
Cal.

Chaudron & Peyton, 421 E Saratoga, Balti-
more, Md.

Cincinnati Beveling & Silvering Co., 430
Oliver, Cincinnati, O.

Cooper, Chas. D., 188 W Houston, New York

Crane Glass & Mfg. Co., 206 St. Clair av,
N E. Cleveland, O.

Dayton Art Glass Works, Dayton, O.

Donnelly, J. R. Co., 54 Classon av, Brooklyn,
N. Y.

Empire Mirror & Beveling Co., Alexandria, Ind.

Empire Ornamental Glass Co., 42 Renwick,
New York

Evansville Mirror & Beveling Co., Evansville,
Ind

Ford Bros., 234 5th av, Chicago, Ill.

Hadley-Dean Glass Co., 11th & Lucas av, St.
Louis, Mo.

Haskins Glass Co., Rochester, N. Y.

Heckerman, F. W. & Co., 120 Opera pl, Cin-
cinnati, O.

Hires, Turner Glass Co., 230 So. 30th, Phila.,
Pa.

Holland & New Co., Des Moines, Ia.

Hooker, H. M. Co., 120 Wash'n, Chicago, Ill.

Ingerson & Glaser Co., San Francisco, Cal.

Jones Decorative Glass Co., Concord & Hudson
av, Brooklyn, N. Y.

Oriel Glass Works, San Francisco, Cal.

Pioneer Glass Works, 121 New Montgomery,
San Francisco, Cal.

Pittsburg Plate Glass Co., Frick bldg., Pitts-
burg, Pa.

Popper, Leo. & Sons, 7 Sullivan, New York

Potts Bros., 116 Walker, New York

Queen City Glass Works, 122 Opera pl, Cincin-
nati, O.

Raphal, H. & Co., 509 S Main, Los Angeles,
Cal.

Riordan, G. C. & Co., 133 E 5th, Cincin-
nati, O.

SCHULER-MUELLER CO., 250 E. Kinzie,
Chicago, Ill. (See adv. index, end of book)

Smith, M. A., 65 Chambers, Newark, N. J.

Standard Glass & Paint Co., Des Moines, Ia.

Suess Ornamental Glass Co., 750 Throop, Chi-
cago, Ill.

United Glass Works, 62 8th, San Francisco, Cal.

Von Gerichten Art Glass Co., Columbus, O.

Western Mirror Plate Co., 824 Wade, Cincin-
nati, O.

Western Sand Blast Mfg. Co., 21st & Marshall
boul, Chicago, Ill.

Whither-Coburn Co., San Francisco, Cal.

*Glass Blanks (For Cutters of
Mangin Mirrors)

RODEFER, T. A., Bellaire, Ohio. (See
adv. index, end of book)

Glass (Carrara)

Pittsburg Plate Glass Co., Frick bldg., Pitts-
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Pittsburg Plate Glass Co., Frick bldg., Pitts-
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Pittsburg Plate Glass Co., Frick bldg., Pitts-
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Pittsburg Plate Glass Co., Frick bldg., Pitts-
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Pittsburg Plate Glass Co., Frick bldg., Pitts-
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Pittsburg Plate Glass Co., Frick bldg., Pitts-
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Glass (Chipped)

Allegan Mirror Plate Co., Allegan, Mich.

Chaudron & Peyton, 421 E Saratoga, Balti-
more, Md.

Empire Ornamental Glass Co., 42 Renwick,
New York

Jamestown Mirror Wks., Jamestown, N. Y.

Jones Decorative Glass Co., Concord & Hudson
av, Brooklyn, N. Y.

Niagara Glass Wks., Buffalo, N. Y.

Pacific Window Glass Co. (For Office Win-
dows, etc.), Stockton, Cal.

Pittsburg Plate Glass Co., Frick bldg., Pitts-
burg, Pa.

Rawson & Evans, 151 Washington boul, Chi-
cago, Ill., & 458 W B'way, New York

Suess Ornamental Glass Co., 750 Throop, Chi-
cago, Ill.

Western Sand Blast Mfg. Co., 21st & Marshall
boul, Chicago, Ill.

*Glass (Crystal, Lead & Colored)

RODEFER, T. A., Bellaire, O. (See
adv. index, end of book)

Glass Cutting Boards

Lufkin Rule Co., Saginaw, Mich.

Glass Cylinders

Appert Glass Co., 277 B'way, New York

Fairport Corporation, New Bedford, Mass.

Glass (Druggists')

(See Glassware, Chemical & Druggists')

Glass Embossers

California Art Glass Works, San Francisco,
Cal.

Dougherty, James, 435 W B'way, New York

Empire Ornamental Glass Co., 42 Renwick,
New York

Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.

Ingerson & Glaser Co., San Francisco, Cal.

Jones Decorative Glass Co., Concord & Hudson
av, Brooklyn, N. Y.

Louisville Ornamental Glass Co., Louisville,
Ky.

Pittsburg Plate Glass Co., Frick bldg., Pitts-
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Pittsburg Plate Glass Co., Frick bldg., Pitts-
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Pittsburg Plate Glass Co., Frick bldg., Pitts-
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YOU DON'T KNOW



POLISHED WIRE GLASS.

When your property will be swept away by fire and the loss you may have to suffer in consequence.

That you are or are not amply covered by insurance is of little account when you stop to consider that a vast portion of your loss may include that which money can never replace. It is gone forever to the ash heap. You don't want to burn out. Be wise. Install Wire Glass set in metal frames and you will then have adopted the best means of protection and in the long run the most economical.

Mississippi Wire Glass Co.

115 Broadway, New York.

72 E. Madison, Chicago.

Main & Angelica, St. Louis.

Union Glass Works, 115 Turk, San Francisco, Cal.
 Van Horn, Dan'l. Art Glass Works, 537 11th, Milwaukee, Wis.
 Van Horne, D. A. & Co., 467 G'wich, & 400 W B'way, New York
 Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

Glass Enamellers

Dougherty, James, 435 W B'way, New York
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)
 Gernhardt, H. T. & Co., 409 E Fayette, Baltimore, Md.
 Jones Decorative Glass Co., Hindson av & Concord, Brooklyn, N. Y.
 Louisville Ornamental Glass Co., Louisville, Ky.
 Passarge, A. & Co., 338½ Gates av, Brooklyn, N. Y.
 Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W B'way, New York
 Stevens Art Glass Co., 28 S. St. Clair, Dayton, O.
 Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.
 Von Gerichten Art Glass Co., Columbus, O.
 Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

*Glass (Figured)

MISSISSIPPI GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)

Glass (Fire Retardant)

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (see adv. index, end of book)
MISSISSIPPI WIRE GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)
 Pittsburg Plate Glass Co., Frick bldg, Pittsburg, Pa.

*Glass Floor Plate Mfrs.

MISSISSIPPI GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)

Glass for Electrical Use

Whitall Tatum Co., 410 Race, Philadelphia, Pa.

Glass for Engineering Specialties

(See also Gauge Glass Importers)

Bache, Semon. & Co., West & Hubert, New York
 Carr-Lowrey Glass Co., Westport, Baltimore, Md., & 290 B'way, N. Y.
 Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
 Whitall, Tatum Co., 410 Race, Philadelphia, Pa.

Glass Globes and Shades

(See Globes, Various Kinds; also Shades, Glass & Porcelain, Etc.)

Glass (Ground)

Allegan Mirror Plate Co., Allegan, Mich.
 Cooper, Chas. & Co. (For Polishlug), 194 Worth, New York
 Pacific Window Glass Co. (For Office Windows, etc.), Stockton Cal
 Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W B'way, New York

Glass House Clay Supplies

Beaver Valley Pot Co., Rochester, N. Y.
 Findlay Clay Pot Co., Findlay, O.
 Gill Bros., Muncie, Ind.
 La Clede-Christy Clay Products Co., St. Louis, Mo.
 Ohio Valley Clay Co., Steubenville, O.
 Phoenix Clay Pot Co., New Kensington, Pa.
 Pittsburg Clay Pot Co., Allegheny, Pa.
 Trenton Fire Brick Co. (Glass Melting), Trenton, N. J.
 Woods-Lloyd Co., Pittsburg, Pa.

Glass House Furnace Builders

American Furnace & Machine Co. (Complete Plants), Fulton bldg, Pittsburg, Pa.
 American Producers' Gas Furnace Co. (Also Glass Factories), Salem, N. J.
 Cox & Sons, 215 Race, Philadelphia, Pa.
 Dixon, H. L. Co., Roslyn, Pa.
 Smythe, S. R. Co., Pittsburg, Pa.

Glass House Supplies

Dixon, H. L. Co., Roslyn, Pa.

Glass (Leaded)

(See also Glass Stainers)

Alberts, J. B., 307 1st Louisville, Ky.
 Baker, Jas. W., 1836 Champa, Denver, Col.
 Brand, Gustave A., & Co., Steinway Hall, Bryant Bros., Columbus, Ohio, Chicago, Ill.
 Bunce Art Glass Co., Richmond, Va.
 California Art Glass Works, San Francisco, Cal.
 Clinton Glass Co., 259 W 21st, Chicago, Ill.
 Dayton Art Glass Works, Dayton, Ohio
 Decorative Art Glass Co., 214 S Highland, Pittsburg, Pa.
 Decorative Art Co., 37 N 3d, Columbus, O.
 Decorative Arts Co., 527 5th av, New York
 Deuliger, B. & S. Co., Jackson bldg, Denver, Col.
 Dolde Art Glass Co., 18 N Diamond, Allegheny, Pa.
 Denver Ornamental Glass Works, 305 16th, Denver, Col.
 Flanagan & Biedenweg Co., 63 Illinois, Chicago, Ill.
 Ford Bros., Minneapolis, Minn.
 Gelssler, R., 56 W 8th, New York
 Glumini & Hlilgart, 211 E Madison, Chicago, Ill.

Hamilton, H. E. & Co., Indianapolis Ind.
 Haskins Glass Co., Rochester, N. Y.
 Henderson Bros., 342 E 38th, New York
 Highland Glass Co., Washington, Pa.
 Holland & New Co., Des Moines, Ia.
 Hooker, H. M. Co., 120 Wash'n, Chicago, Ill.
 Hooper-Dombrik Art Glass Co., Oakland, Cal.
 Hosey, Patrick, 1649 17th, Denver, Col.
 Jackson Glass Works, Jackson, Mich.
 Jones, Thos. Decorative Co., Concord, C.
 Hudson av, Brooklyn, N. Y.
 Morgau Co. (Art), Factory & General Offices: Oshkosh, Wis.
 O'Hearn, P. H., 1413 18th, Denver, Col.
 Payne, Geo. H., 40 Park av, Paterson, N. J.
 Pittsburg Art Glass & Mosaic Decorative Co., 112 Isabella, Allegheny, Pa.
 Pittsburg Plate Glass Co., Frick bldg, Pittsburg, Pa.
 Rae, G. & Co., 436 W B'way, New York
 Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W B'way, New York
 Redding, Baird & Co., 83 Franklin, Boston, Mass.
 Righter & Kolb, 156 5th av, New York
 Riordan, G. C. & Co., 133 E 5th, Cincinnati, Ohio
 Rockford Art Glass Works, Rockford, Ill.
 Ryder, R. H., Grand Rapids, Mich.
 Rossbach Art Glass Works, Columbus, O.
SCHULER-MUELLER CO., 250 E. Kinzie, Chicago, Ill. (See adv. index, end of book)
 Sharpe Bros., 3 Court, Newark, N. J.
 Snowdon, George, Utica, N. Y.
 Spiers, Richard N., 859 6th av., New York
 Stevens Art Glass Co., 28 S. St. Clair, Dayton, O.
 Stoltzenberg Co., 51 Barclay, N. Y.
 Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.
 Summers, Charles, 239 Nassau, Brooklyn, N. Y.
 Temple Art Glass Co., 117 Michigan, Chicago, Ill.
 Tiffany Studios, 347 Madison, New York
 Toledo Art Glass Co., Toledo, O.
 United Glass Works, 115 Turk, San Francisco, Cal.
 Von Gerichten Art Glass Co., Columbus, O.
 Wallis, A. H., 2000 & 2002 Locust, St. Louis, Mo.
 Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.
 Wood Glass Co., Syracuse, N. Y.

*Glass (Maze, for Diffusion of Light)

MISSISSIPPI GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)

Glass Mosaic Work

Armstrong, Maitland & Co., 61 Wash'n sq. S. New York
 Brown, Habbell & Puddicombe Co., New Haven, Conn.
 Bryant Bros., Columbus, Ohio.
 Church Glass & Decorating Co., 28 W 30th, New York
 Colgate Art Glass Co., 8 Gansevoort, New York

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An architect, a builder or a property owner has his glass problem solved, not for the present only, but for all time to come.

IN WIRE GLASS he finds a product of unequalled Fire Retarding Efficiency that prevents the entrance or egress of draft and flame and the perils attending glass breakage, while in Mississippi Figured Glass he has clearly defined, forceful and decorative patterns of great brilliance and diffusive power, especially suitable for interior glazing of all classes of buildings.

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115 Broadway, New York.

Main & Angelica, St. Louis.



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Dayton Art Glass Wks., Dayton, Ohio.
Decorative Art Co., 37 N 3d, Columbus, O.
Decorative Stained Glass Co., 46 Wash'n sq., New York

Doring Art Glass Studio, Grand Rapids, Mich.
Dougherty, Jas., 435 W B'way, New York
Flagg L. G. & Co., Sudbury bldg., Boston, Mass.

Flanagan & Biedenweg Co., 63 Illinois, Chicago, Ill.
Ford Bros., Minneapolis, Minn.
Freeman, Alfred H., 41 University pl, New York
Geissler, R., 56 W 8th, New York
Glennine & Hilgart, 211 E Madison, Chicago, Ill.

Haggerty, D. W. & Co., 70 Washington, Boston, Mass.

Helmgke & Bowen, 24 E 13th, New York
Henderson Bros., 343 W 37th, New York
Kelley & Co., 38 Chardon, Boston, Mass.
Kinsella Glass Co., Holland, Mich.

Lamb, J. & R. (Inc.), 25 6th av, New York
Louisville Ornamental Glass Co., Louisville, Ky.
McCully & Miles Co., 76 Wabash av, Chicago, Ill.
Mackay & Co., Los Angeles, Cal.

Macy, R. H. & Co., B'way & 34th, New York
Morgan, Jno. & Sons, 17 Union av, Brooklyn, N. Y., & 32 E 9th, New York

O'Halloran's, Tbos. Sons, 127 Van Buren, New York, N. J.

Passarge, A. & Co., 338½ Gates av, Brooklyn, N. Y.

Payne, Geo. H., 40 Park av, Paterson, N. J.

Petgen Glass Co., 5th & Hamilton avs, Pittsburgh, Pa.

Pittsburg Plate Glass Co., Frick bldg, Pittsburgh, Pa.

Rae, G. & Co., 436 W B'way, New York

Redding, Baird & Co., 83 Franklin, Boston, Mass.

Righter & Kolb, 156 5th av, New York

Riordan, G. C. & Co., 133 E. 35th, Cincinnati, Ohio

Splers, Richard N., 859 6th av, New York

Stevens Art Glass Co., 28 S St Clair, Dayton, O.

Stoltzenberg Co., 51 Barclay, New York

Summers & Lamb, c Jay & Johnson, Brooklyn, N. Y.

Tiffany Studios, 347 Madison av, New York

Tyrolese Art Glass Co., 25 W B'way, New York

Valley City Glass & Paint Co., Grand Rapids, Mich.

Von Gerlchten Art Glass Co., Columbus, O.

Wallis, A. H., 2000 & 2002 Locust, St. Louis, Mo.

Woodman, Geo. F., 5513 Kinsman rd, Cleveland, O.

*Glass ("Nutile")

MISSISSIPPI GLASS CO. ("Nutile," White), 115 B'way, New York. (See adv. index & branch offices, end of book)

*Glass (Opal)

MARIETTA GLASS MFG. CO. (Tiling & Refrigerator Linings), Indianapolis, Ind. (See adv. index, end of book)

MISSISSIPPI GLASS CO. ("Nutile," White), 115 B'way, New York. (See adv. index & branch offices, end of book)

Glass Opal Blanks

Popper, Leo & Sons, 15 Sullivan, New York

RODEFER, T. A. (For Decorators), Bellaire, O. (See adv. index, end of book)

Glass (Opalescent)

Gillinder & Sons (Inc.), 135 Oxford, Philadelphia, Pa.

Heidt, John B. (Est. of), 284 Boerum, Brooklyn, N. Y.

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

Opalescent Glass Works, Kokomo, Ind.

Peltier Glass Co., Ottawa, Ill.

Popper, Leo & Sons, 15 Sullivan, New York

Rawson & Evans, 151 Washington boul, Chicago, Ill.

RODEFER, T. A., Bellaire, O. (See adv. index, end of book)

Glass (Ornamental)

(See Glass Stainers)

Glass (Photographic)

Bache, Senon. & Co., West & Hubert, New York

*Glass (Plain & Fancy Figured)

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

Glass (Plate Prism Mfrs.)

Pressed Prism Plate Glass Co. ("Imperial"), 17 Battery pl, New York, & Morgantown, W. Va.

Glass (Plate & Window, Wholesale & Retail)

ALABAMA.

BIRMINGHAM—Birmingham Paint & Glass Co.

MOBILE—McDermott, M. A. & J. P.

ARKANSAS.

LITTLE ROCK—Abeles, Chas. T. & Co.

CALIFORNIA.

LOS ANGELES—Dixon Art Glass Co.

Fuller, W. P. & Co., 142 N Los Angeles

Raphael, H. Co., 509 S Main

Whittier—Coburn Co.

OAKLAND—Fuller, W. P. & Co. (Inc.)

Cobbledick, L. N. Glass Co.

SACRAMENTO—Fuller, W. P. & Co. (Inc.)

SAN DIEGO—Fuller, W. P. & Co. (Inc.)

SAN FRANCISCO—Butcher, L. H. Co., 208 1st

California Plate & Window Glass Co., 921 Folsom

Fuller, W. P. & Co. (Inc.), Beal & Mission

Holt, Habernicht & Howlett (Inc.), 269 Fell

Pacific Window Glass Co., 8th & Brennan

Whittier—Coburn Co., Howard & Beale

COLORADO.

DENVER—Bingham, H. W. & Co., Larimer

Hallack Paint, Oil & Glass Co., 1741 Arapahoe

Halleek & Howard Lumber Co., Larimer & hoe

James, B. L. Mercantile & Mfg Co., 1517 Arapahoe

McPhee & McGinnity Co., 18th c Wazee

Sayre-Newton Lumber Co., 23d & Blake

CONNECTICUT.

HARTFORD—Andrews & Peck Co., 88 Market

Brust, F., 60 Talcott

Nims, Whitney Co., 1170 Main

Trant, John C., 347 Asylum

NEW BRITAIN—Rackliffe Bros. Co., 302 Park

Rogers, D. M. & Co., 9 Court

NEW HAVEN—Brodner, K., 103 Congress av

Morgan & Humiston Co., 30 Prout

Thompson & Belden, 398 State

TORRINGTON—Hotchkiss Bros. Co.

DELAWARE.

WILMINGTON—Bradford, James, Co.

Christiana Window Glass Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 11th e G, N. W.

Becker, Chas. & Co., 1239 Wisconsin av

Brown, R. M., 7th & N, N. W.

Muth, Geo. F. & Co., 418 7th, N. W.

Reilly, Hugh, 1334 New York av, N. W.

Smith, Thos. W., 1st e Ind. av, N. W.

Warren & Dyer, 627 F, N. W.

GEORGIA.

ATLANTA—Georgia Paint & Glass Co., 40 Peachtree

Pittsburg Plate Glass Co. (Mfrs.), 31 S Pryor

SAVANNAH—Butler, J. G., 20 Congress

ILLINOIS.

CHICAGO—Cole, Hy. A., 324 Dearborn

Hooker, H. M. Co., 120 Wash'n

Innes-Weld Glass Co., 48 E Van Buren

Morgan Sash & Door Co. (Plate), Blue Island av & Wood

Pittsburg Plate Glass Co. (Mfrs.), 442 Wabash av

Rawson & Evans, 151 Washington boul

Rice, James H. Co., Michigan, St. Clair & Illinois sts.

Siegel, Abraham, 23 Blue Island av

Sprague, Smith Co., 167 E Randolph

Standard Glass Co., 2345 La Salle

Tyler & Hippach (Inc.), 47 Ohio

PEORIA—Wahlfred Mfg. Co., 1101 S Wash'n

QUINCY—Achelpohl, Chas. H., Drug Co.

Garretts, Henry, & Sons,

Heldbreder Bros. & Co.

Oenning Glass & Book Co.

Young Bros.

ROCK ISLAND—Volk, John & Co.

SPRINGFIELD—Power, Chas. A.

INDIANA.

EVANSVILLE—Evansville Mirror & Beveling

Evansville Paint & Varnish Co., Co.

Johnson, E. C.

FORT WAYNE—Dreier & Bro.

Schlatter, C. C. & Co.

INDIANAPOLIS—Aldag Paint & Varnish Co., 426 E Wash'n

Indianapolis Paint & Color Co., 240 Mass av

Johnson-Woodbridge Co.

Sargent Paint & Color Co., N. J. & Mass

Stewart, Carey Glass Co., av

LAFAYETTE—Lafayette Lbr. & Mfg. Co.

Taylor, Henry Lbr. Co.

TERRE HAUTE—Adamson & Anderson

Krietenstein, Carl

IOWA.

CALMAR—Calmar Mfg. Co.

CEDAR RAPIDS—Williams & Hunting Co.

DAVENPORT—McClelland, T. W. Co.

Pittsburg Plate Glass Co.

Roberts, U. N. Co.

DES MOINES—Buck Bros. Co.

Carr & Adams Co.

Holland & New Co.

DUBUQUE—Carr-Ryder & Adams Co.

LYONS—Disbrow, M. A. & Co.

MUSCATINE—Roach & Musser Sash & Door Co.

KANSAS.

EMPORIA—Emporia Lbr. & Coal Co.

HUTCHINSON—Hutchinson, L. & P. Mill Co.

TOPEKA—Whiting, A. B. Paint & Glass Co.

WICHITA—Young Bros.

KENTUCKY.

LOUISVILLE—Hughes, E. L. Co., 215 E Main

Hughes, W. J. & Sons Co., 14th e Maple

Peaslee-Gaulbert Co., Window Gl. Dept., 417 W Main

LOUISIANA.

NEW ORLEANS—Augustin, Henry

Augustin, M.

Louisiana Glass & Mirror Works, 309 Lafayette

MeWilliams, R. (Ltd.), 342 Camp

MAINE.

PORTLAND—King & Dexter Co.

MARYLAND.

BALTIMORE—Baker Bros. & Co., 102 Hopkins

Baker Glass Co., 118 S Eutaw pl

Baltimore Paint & Glass Co., 417 Exchange pl

Kaufman, E. L. & Co., Liberty & Fayette

Pittsburg Plate Glass Co. (Mfrs.), 221 W Pratt

Seim, Henry & Co., Howard & Fayette

Swindell Bros., e Bayard & Russell

United States Glass Co., 110 Hopkins pl

MASSACHUSETTS.

BOSTON—Boston Plate & Window Glass Co.,

Kelly, Geo. R. & Co., 44 Bedford, 287 A

Millen & Williamson Co., 29 Kneeland

Pittsburg Plate Glass Co. (Mfrs.), 41 Sudbury

Standard Plate Glass Co., 26 Sudbury

WORCESTER—Marble J. Russell & Co., 440

Howard, S. L., 3 Harvard Main

MICHIGAN.

ALLEGAN—Allegan Mirror Plate Co.

DETROIT—Amerlean Paint & Glass Co., 38 Cadillac sq

Boydell Bros., White Lead & Color Co., 40 Champlain

Central Paint & Glass Co., 36 Cadillac sq

Fletcher Hardware Co., 65 W Woodbridge

Frohlich, Edw. Glass Co., 52 Larned, W

Michigan Ornamental Glass Co., 21st & Standish

Pittsburg Plate Glass Co. (Mfrs.), 53 E Larned

Reid, Wm., Co., 124 Larned av W

Schroeder Paint & Glass Co., 44 Cadillac sq

GRAND RAPIDS—French, Walter Glass Co.
Goble Bros. Glass Co.
HOLLAND—Kinsella Glass Co.
JACKSON—McLean, Frank & Co.
SAGINAW—Saginaw Plate Glass Co.

MINNESOTA.

DULUTH—Paine & Nixon Co.
St. Germain Bros., 110 1st av, W
MINNEAPOLIS—Foruman, Ford & Co., 116
Washington av, S
Janney, Semple, Hill & Co., 30 S 2d
Northwestern Glass Co., 120 1st av, N
Pittsburg Plate Glass Co. (Mfrs.), 500 S 3d
ST. PAUL—Mann, F. R. & Son, 437 St. Peter
Noyes Bros. & Cutler, 6th & Sibley
Pittsburg Plate Glass Co., 459 Jackson
Whitehead, Wm. G., 27 E 8th

MISSOURI.

KANSAS CITY—Campbell Glass & Paint Co.
Faxon & Gallagher Drug Co.
Pittsburg Plate Glass Co. (Mfrs.), 5th &
Wyandotte
ST. JOSEPH—Pimbley Paint & Glass Co.
ST. LOUIS—Condie-Neale Glass Co., 2500 N
Broadway
Glenny-Rutter Glass Co., 114 S 3d
Hadley-Dean Glass Co., 11th c Lucas av
Hafner Mfg. Co., Main & Dock
Isme-Schilling Sash & Door Co., 21st &
Papin
Kahn M. Glass Co., 12th c Walnut
Pittsburg Plate Glass Co. (Mfrs.), Spruce
& 10th
Pockels Drug, Paint & Glass Co., Gravois
av c Jefferson av
Weigelt Glass & Mirror Mfg. Co., 615 S
6th

MONTANA.

HELENA—Parchen Drug Co.

NEBRASKA.

LINCOLN—Western Glass & Paint Co.
OMAHA—Midland Paint & Glass Co.
National Oil & Paint Co., 1015 Jones
Richardson Drug Co., 902 Jackson

NEW JERSEY.

HOBOKEN—Bloomberg, Abraham, 405 1st
JERSEY CITY—Max Lewis, 52 Greene
NEWARK—Bass, Samuel M., 26 Bellevue av
Hassinger, E. P., 13 Springfield
Hockenjos, J. J. Co., 829 Broad
Newark Glass Co., 271 Market
Siegel, Isidore, 8 Charlton
Smith, M. A. (Inc.), Margaretta & Av L
Van Horne, D. A. & Co., 317 Mt. Pleasant
PATERSON—Hamilton Lumber & Mfg. Co.

NEW YORK.

ALBANY—Bradstreet, Wm. H., 165 S Pearl
Cameron, G. V. & F. W., 284 Central av
Fonda, D. H. Drug Co., 14 Green
Kurtz, Jacob, 334 Central av
Wing, Robt. B. & Son, 62 Quay
BINGHAMTON—Binghamton Glass Co.
Lawrence Paint Co.
Sanders, H. H.
BROOKLYN—(See N. Y. City. Borough of
Brooklyn)
BUFFALO—Becker Glass & Paint Co., 372
Pearl
Buffalo Glass Co., 96 Seneca
Fritzsche & Kleason, 42 Eagle
National Glass Co., 523 Main
Niagara Glass Works, 1443 Niagara
Post's, John C. Sons, 52 S Division
Schwele & Co., Gencsee & Wash'n
Towns Paint & Glass Co., 50 Niagara
Wright, A. B. & Co., 230 Washington
ELMIRA—Booth, Irving D.
ITHACA—Treman, King & Co.
JAMESTOWN—Bush, F. G., Co.

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Donnelly, J. R. Co., 54 Classon av
Friedlander, Jos. B. (Est. of), 184 Fulton
Lazansky, Emil, 324 Myrtle av
Moll, M. N., 317 Atlantic av
Pittsburg Plate Glass Co., 635 Fulton

Boroughs of Manhattan & Bronx.

NEW YORK—Bach, Semon & Co., West &
Bartelstone Bros., 4179 3d av Hubert
Bartelstone, Harris & Son, 56 Cooper sq. W
Crane Glass & Mfg. Co., 341 Hudson
Dunham, Thos. C., 68 Murray
Ellas, Joseph, 220 W 14th

Edmonds, Thos. C. & Co., 1826 Park av
Gilbert & Sturrock, 361 W 42d
Goldman, Philip, 98 Division
Goldstein, Louis, 17 Elizabeth
Griffen, Benjamin, 40 Vestry
Harris, L. & Son, 106 Liberty
Holbrook Bros., 89 Beekman
Hutkoff, Nathan & Co., 38 Hubert
Kahn, Jacques, 533 W 37th
Lewis, Isaac & Sons, 1909 Park av
May, Hernian G., 25 Whitehall
Morris, Theo. W. & Co., 440 Canal
Pittsburg Plate Glass Co. (Mfrs.), Hudson
& Vandam

Popper, Leo & Sons, 7 Sullivan
Ruhin, Jacob, 11 James
Schaefer Bros., 461 W B'way
Schottland, Benjamin, 49 Crosby
Shuldiner, David Glass Co., 325 E 64th
Sutphen & Myer, 11 Desbrosses
Thorpe, Jno., 260 W B'way
Vanborne, D. A. & Co., 467 G'wich
Von Buhren, George, 11 Baxter
Weber, C. S. & Co., 10 Desbrosses
Wissmach, Paul, 9 Jones

(End of New York City)

ROCHESTER—Barnard, Porter & Viall, 15 N
Water
Becker Glass & Paint Co., Wilder bldg
Clark, Paint, Oil & Glass Co., 131 State
Rugg, C. H., Co., N Union c N. Y. C. R.R.
Versprella, Harry, 52 Division
SYRACUSE—Brown, Clinton C., 205 E Jeff'n
Burhans & Black Co., 136 N Salina
Wood Glass Co.
TROY—Dauchy, Chas. H. Co., 279 River
Thompson, John L. & Sons Co., 163 River
UTICA—Kellogg, Chas. C., & Sons Co.

OHIO.

CINCINNATI—Barron, Boyle Co., 230 E 5th
Cincinnati Plate Glass Co., 108 W 2d
Foy Paint & Glass Co., 633 Main
Glenny, Wm. Glass Co., 10 W Commerce
Kolbe, John Co., 229 W 5th
Meyer, E. H., & Co., 904 Walnut
Neuer, Hyman, 110 E 13th
Peale Paint & Glass Co., 904 Central av
Pittsburg Plate Glass Co., B'way & Court
Tenner, Schreiner & Co., 552 Main
Washburn, Ira D. Co., 1008 Central av
CLEVELAND—Cleveland Window Glass &
Door Co., 209 Champlain av. N W
Crane Glass & Mfg. Co., 206 St. Clair av.
N E
Diamond Glass Co., 1422 W 25th, N W
Manufacturers' Glass Co., Williamson bldg
Ohio Sash & Door Co., 211 Prospect av, NW
Pittsburg Plate Glass Co. (Mfrs.), 1430 W
3d, N W
Saunders, J. A. Co. 11836 Detroit av,
Lakewood
Standard Sash & Door Co., 5108 Euclid av
Teachout, A. Co. 321 Prospect av, N W
COLUMBUS—Columbus Plate & Window Glass
Co., 69 E Long
Federal Glass Co., Innis & Parsons avs
Jones, W. R. Glass Co., United Nat. Bank
hldg
DAYTON—Irvin, Jewell & Vinson Co.
West Side Lumber Co.
HILLSBORO—Enterprise Planing Mill Co.
(Wholesale, etc.)
TOLEDO—Ohio Glass Co., Aiblen & Baxter
Toledo Plate & Window Glass Co., Elm.
Utica & George
YOUNGSTOWN—Youngstown Glass & Paint
Co.

OREGON.

PORTLAND—Beach, F. E. & Co., 135 1st
Fisher, Thorsen & Co., 162 Front
Fuller, W. P. & Co. (Inc.)
Illinois-Pacific Glass Co., 109 2d
Rasmussen & Co., 229 Taylor

PENNSYLVANIA.

ALLEGHENY—Conroy, Prugh & Co., 1430
Daum & Helm, 623 Ohio, E Western av
ERIE—Eric Window Glass Co.
PHILADELPHIA—Bennett, G. S. & Co., 114
Bennett, H. L., Phila. Bourse N 9th
FRENCH, SAM'L. H. & Co., 4th &
Callowhill. (See adv. index, end of book)
Hires Turner Glass Co., 230 S 30th
Knorr, Edwin B., & Bro., 1817 Orthodox.
Lucas, John & Co., 322 Race Fkd
Nice, Eugene E., 272 S 2d
Pittsburg Plate Glass Co., 11 & Arch
Shoemaker, Benj. H., 205 N 4th
Star Glass Co., 226 N 4th
Steel Glass Co., 622 Locust
Thomas Glass & Mirror Works, 406 N 12th
United States Glass Co., 839 Market

PITTSBURG—Bindley Hardware Co., 429 7th
av
Connolly, Thos. A., 18 Parkway E. N S
Cunningham, D. O. Glass Co., 22d c June
Kim, Geo. A. & Co., 320 1st av
McCully, Wm. & Co., 7 Wood
Pennsylvania Door & Sash Co., 900 2d av
Pittsburg Plate Glass Co., Frick bldg
Sterling Paint & Glass Co., 101 Wood
Wightman, Thos. Glass Co., 232 2d av
RIDGEWAY—Hyde-Murphy Co.
SCRANTON—Washburn, Williams & Co.
WILKES-BARRE—Phelps, Lewis & Bennett Co.

RHODE ISLAND.

PAWTUCKET—Tingley, Frank E.
PROVIDENCE—Johnson, Oliver & Co., 5 Ex-
change
Perkins Bros. Co., 970 Westminster
Providence Sash & Blind Co., 301 Broad
Rosenblatt, Henry, 91 Washington
Starkweather & Williams Co., 47 Exchange
pl

SOUTH CAROLINA.

CHARLESTON—Bird, W. M. & Co.

TENNESSEE.

MEMPHIS—Binswanger & Co., 4 W Calhoun
Cole Mfg. Co.
Drew, Geo. I., Glass Co., 153 Union av
NASHVILLE—Beasley & Sons, 147 N 3d
Riddle Co., 160 N 2d
Warren Bros. Co., 200 N 3d av

TEXAS.

DALLAS—Texas Glass & Paint Co.
EL PASO—Tuttle Paint & Glass Co.
GALVESTON—Baulard, V. L. & Co.
Smith, J. F. & Bro.

UTAH.

OGDEN—Ogden Paint, Oil & Glass Co.
SALT LAKE CITY—Culmer Paint & Glass Co.
Ebert, Geo. W. & Co.

VIRGINIA.

NORFOLK—Clark, Frank T. Co. (Ltd.)
RICHMOND—Abrams Paint & Glass Co. (Inc.)
Binswanger & Co. (Inc.)

WASHINGTON.

SEATTLE—Coast Paint Co., 91 Spring
Fuller, W. P. & Co., 117 Jackson
Nelle & Engelbrecht, 82 W Columbia
SPOKANE—Fuller, W. P. & Co. (Inc.)
TACOMA—Fuller, W. P. & Co. (Inc.)
Pacific Glass & Paint Co.

WEST VIRGINIA.

WHEELING—Chapman, W. H. & Sons

WISCONSIN.

APPLETON—Miller Lumber Co.
LA CROSSE—Kuhn, R. C., Sash & Door Co.
Segelke & Kohlhaus Mfg. Co.
MILWAUKEE—Curtis & Yale Co., 204 Grand
Dorestan, Enno & Son Co., 297 3d av
Hecht & Zummach, 281 W Water
Patek Bros., 319 E Water
Patton, Jas. E. Co., 494 Market
Yahr & Lange Drug Co., 486 Market
Zummach, Wm. F., 281 W Water
OSHKOSH—Morgan Co.
RACINE—Driver, Thos. & Sons Mfg. Co.
Weber-Bahnemann Co.

Glass (Polished Plate, Mfrs.)

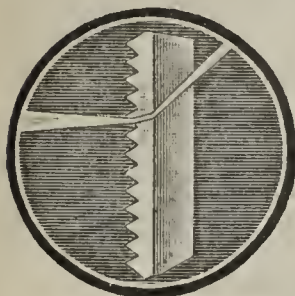
Allegheny Plate Glass Co., Hites, Pa., & Park
hldg, Pittsburg, Pa.
American Plate Glass Co., Kane, Pa.
Columbia Plate Glass Co., Blairsville, Pa.
Federal Plate Glass Co., Ottawa, Ill.
Ford, Edw., Plate Glass Co., Rossford, O.
Heidenkamp Mirror Co., Springdale, Pa.
Kittanning Plate Glass Co., Kittanning, Pa.
Penn-American Plate Glass Co., Pittsburg, Pa.,
& Alexandria, Ind.
Pittsburg Plate Glass Co., Frick bldg, Pitts-
burg, Pa.
Saginaw Plate Glass Co., Saginaw, Mich.
St. Louis Plate Glass Co., Diamond Bank bldg.
Pittsburg, Pa.; Works: Valley Park, Mo.
Standard Plate Glass Co., Butler, Pa.

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CLEVELAND
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ST. LOUIS

*Glass (Polished Wire)

MISSISSIPPI WIRE GLASS CO., 115 B'way, New York, (See adv. index & branch offices, end of book)

Glass (Pressed Light, Mfrs.)

Cambridge Glass Co., Cambridge, O.
Canton Glass Co., Marion, Ind.
National Glass Co., 806 Penn. av, Pittsburg, Pa.

RODEFER, T. A., Bellaire, O. (See adv. index, end of book)

Glass (Prismatic Mfrs.)

AMERICAN BAR LOCK CO. ("Bar Lock" 3 Point Prism Lights), 26th & Penna. av, Phila., Pa. (See adv. index, end of book)

AMERICAN LUXFER PRISM CO.
General Office & Factory, Heyworth bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

AMERICAN THREE-WAY PRISM CO.
(Three-Way Prisms), 134 N 10th, Phila., Pa. (See adv. index & branch offices, end of book)

Daylight Glass Mfg. Co., 608 Chestnut, Philadelphia, Pa.
Maltby, Geo. K. & Co., Flatiron bldg, New York

NEW YORK PRISM CO., 497 W B'way, New York. (See adv. index, end of book)

Pressed Prism Plate Glass Co. ("Imperial" Plate Prism Glass), Morgantown, W. Va.

RODEFER, T. A. (For Architectural Iron Work), Bellaire, O. (See adv. index, end of book)

Solar Prism Co., 7003 Quincy, S. E., Cleveland, Ohio

Glass (Rough, Ribbed & Figured Rolled Plate Mfrs.)

Beatty, Brady & Co., Washington, Pa.
Dannenhoffer, John Glass Works, 389 Harman, Brooklyn, N. Y.

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

MISSISSIPPI GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)

Opalescent Glass Works, Kokoma, Ind.
Peltier Glass Co., Ottawa, Ill.

Glass (Rough & Ribbed, for Skylights)

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

MISSISSIPPI GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)

Western Glass Co., Streator, Ill.

Glass (Sand Blast)

Jones Decorative Glass Co., Hudson av & Concord, Brooklyn, N. Y.

Rawson & Evans, 151 Washington boul, Chicago, Ill., & 458 W B'way, New York

Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.

Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

Glass Setting in Lead or Metal

(See Glass Stainers)

*Glass (Sheet Wire Prism)

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

Glass (Skylight, Mfrs.)

Cambridge Glass Co., Cambridge, O.
Canton Glass Co., Marion, Ind.

Continuous Glass Press Co., Penna. bldg, Phila., Pa.

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

MISSISSIPPI GLASS CO., 115 B'way, New York. (See adv. index & branch offices, end of book)

RODEFER, T. A. (For Architectural Iron Work), Bellaire, O. (See adv. index & branch offices, end of book)

*Glass Specialties (Blown & Pressed)

RODEFER, T. A., Bellaire, O. (See adv. index, end of book)

Glass Stainers

(See also Memorial Windows)

CALIFORNIA.

LOS ANGELES—Mackay & Co.
OAKLAND—Hooper-Dombrick Art Glass Co.

Trobeck & Delacour, 10th & Webster

SAN FRANCISCO—Cal. Art Glass Works, 944

Ingerson & Glaser Co., 245 Oak Mission

Munich Art Glass Co., 510 Turk

San Francisco Art Glass Works, 944 Mission

United Glass Works, 115 Turk

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PRISMS.

SASH, CANOPY, SKYLIGHT, SIDEWALK.
NEW YORK PRISM CO., 473 WEST BROADWAY,
NEW YORK.

COLORADO.

DENVER—Baker, Jns. W., 1823 Champs
Brandt Art Studio, 1429 Tremont

CONNECTICUT.

BRIDGEPORT—Bridgeport Art Glass Co., 153 John
HARTFORD—Hartford Stained Glass Works, 599 Main
NEW HAVEN—Beckman, Otto F., & Co., 78 State
Brown, Hubbell & Puddicombe, 87 Orange

DISTRICT OF COLUMBIA.

WASHINGTON—Vaughan, W. W., 813 H. N W

GEORGIA.

ATLANTA—Arlington Art Glass Works, 53 Auburn av
Atlanta Art Glass Co., 84 Marietta

ILLINOIS.

CHICAGO—Chicago Ornamental Glass Co., 151 W Washington

Clinton Glass Co., 259 W 21st
Colonial Art Glass Co., 42 N. Wells
Eberhardt, Hugo & Co., 1148 W. 12th
Flanagan & Biedenweg Co., 61 Illinois
Glennin & Hilgart, 211 Madison
Harder, Wm. C., 2838 Union av.
Heldelmeier, John, 3208 N. Clark
Helmerich & Co., 145 Fulton
Hooker, H. M. Co., 120 Wash'n
Langer, Albert, 1007 W. Chicago av.
Linden Glass Co., 1216 Michigan av.
Lutwyche Glass Co., 158 State
Munich Studio, 211 Madison
Neuhauser, David L., 242 S Water
Rawson & Evans Co., 151 Wash'n boul
SCHULER-MUELLER CO., 250 E
Kinzie. (See adv. Index, end of book)
Schuler & Son, 197 Madison
Suess, M., Ornamental Glass Co., 192 Washington boul
Temple Art Glass Co., 117 Michigan
Western Sand Blast Mfg. Co., 73 W Jack-
OTTAWA—Peltier Glass Co. son boul

INDIANA.

INDIANAPOLIS—Schurmann, E., 7 E Market
Young, C. H., Co., 710 E Michigan

IOWA.

DAVENPORT—Decorative Art Glass Co.
Kaltwasser, E. C., Art Glass Co.
DES MOINES—Allward, Bowman Glass Co.

KENTUCKY.

LOUISVILLE—Alberts, J. B., 307 1st

LOUISIANA.

NEW ORLEANS—Louisiana Glass & Mirror
Works, 309 Lafayette

MAINE.

PORTLAND—Farley, C. H., & Co.

MARYLAND.

BALTIMORE—Gernhardt, H. T. & Co., 411 E Fayette
Gettler, G. W. & Co., 719 N. Entaw
Southern Stained Glass Co., 620 N. Entaw

MASSACHUSETTS.

BOSTON—Bartsch, Valentine, La Grange st.
(W. R.)
Boston Stained & Cut Glass Works, 88 Franklin
Central Glass Works, 41 Washington

Colonial Stained Glass Works, 31 Hartford
Cushing & Anderson, 24 Warren, Rox.
Cutter, A. B. Co., 36 Columbus av.
Flagg L. G. & Co., Sudbury Bldg.
Haggerty, D. W. & Co., 70 Washington
Kelley, W. E. & Co., 38 Chardon
Larrabee, R. B. Co., 27 Sudbury
MacDonald, Donald, 400 Northampton
Murphy, Thomas J., 475 Tremont
Phipps, Horace J. & Co., 65 Bedford
Redding, Balrd & Co., 88 Franklin
Spence, Bell & Co., 90 Canal
Union Stained Glass Co., 708 Columbia rd.
Vaughan & O'Neil, 82 Sudbury
Walker, Alexander, 5 Scaver pl.
Wise, G. W. Co., 65 Franklin
WORCESTER—Worcester Stained Glass Works,
(David Welch, Prop.)

MICHIGAN.

DETROIT—Detroit Stained Glass Works,
Grand River av & 1st
Lee, E. F., Glass Co., 59 Fort E
Michigan Ornamental Glass Co., 21st &
Standish

GRAND RAPIDS—Doring Art Glass Studio
Ryder, Robert H.

HOLLAND—Kinsella Glass Co.

MENOMINEE—Menominee Stained Glass Co.

MINNESOTA.

DULUTH—St. German Bros.
MINNEAPOLIS—Ford Bros. Glass Co., 209 N
Giles, R. T., 111 S 6th Washington av
ST. PAUL—Paussek, I. V. & Co., 817 E 7th

MISSOURI.

KANSAS CITY — Kansas City Stained Glass
Works

ST. JOSEPH—St. Joseph Art Glass Co.

ST. LOUIS—Davis, W. W., 1329 Wash'n av

Frei, Emil, Art Glass Co., S Grand av &
Alberta

Hannan, Albert A., 2723 Lafayette av

Jacoby Art Glass Co., 2700 St. Vincent av

Kerwin, E. F., Ornamental Glass Co., 925 N
6th

St. Louis Art Glass Co., 2700 St. Vincent
avenue

St. Louis Mirror Co., 2227 Chestnut

Weigelt Glass & Mirror Mfg. Co., 615 S 6th

Wendling, Jos., Glass Co., 2718 La Salle

NEW JERSEY.

IRVINGTON—Denman, Julius R.

NEWARK—Beleher, Chas., 21 Belleville av

Metzger, Riehd, 54 Duryea

Milliken, Alex. R., 9 Franklin

O'Halloran's, Thos. Sons, 127 Van Buren

Sharpe Bros., 3 Court

ORANGE—Stevens, Jos.

PATERSON—Payne, George H., 40 Park av

NEW YORK.

ALBANY—Blockside, Jas., 2 High

Buckley, Thos., 452 B'way

Chapman, Wm. B., 222 Hudson av

BINGHAMTON—Rowland, Chas. P.

BROOKLYN—(See New York City, Borough of
Brooklyn, N. Y.)

BUFFALO—Booth's Art Stained Glass
Works, 67 Franklin

Briscall, Wm., Co., 58 Genesee

Frohe Art & Stained Glass Establishment,
220 B'way

Terhaar & Mundle, 359 Jefferson

NEW YORK CITY.

Borough of Brooklyn:

BROOKLYN—Arnold & Locke, 250 Fulton

Hausleiter, Julius & Co., 182 Fulton

Jones Decorative Glass Co., 231 Hudson

Keller, John, 1050 B'way

Lumb, Maskell T., 44 Bergen

Molic, Frank, 109 Court
Morgan, Jno. & Sons, 17 Union av
Muelbe, L. F., Ave F & E 28th
Passarge, A., 338½ Gates av
Shaw, H. S., 107 B'way
Stuetzle, Chas., 106 S 8th
Summers, Chas., 239 Nassau
Tuckhorn, Francis, 366 Atlantic av

Boroughs of Manhattan & Bronx.

NEW YORK—Armstrong, Multland & Co., 61
Washington sq. S

Castle, Montague, London Co., 122 W
24th

Church Glass & Decorating Co., 28 W 30th

Colgate Art Glass Co., 8 Gansevoort

Cornell, Chas. J., 345 W B'way

Cornell, J. C. Co., 401 W 124th

Decorative Stained Glass Co., 46 Wash. sq. S

Dodge, Robert L., 333 4th av

Dougherty, James, 435 W B'way

Durham, George, 155 E 52d

Empire Ornamental Glass Co., 437
Wash'n

Geissler, Rudolph, 16 W 8th

Grimm, A. C., 155 E 23d

Hamilton, Geo., 424 W B'way

Heaton, Butler & Bayne (Ltd.), 437 5th
av

Heinigke & Bowen, 26 E 13th

Henderson Bros., 342 E 38th

Herrlein & Henrich Co., 99 Hudson

Howard Glass Works, 57 Dey

Janes, Walter, 138 W 42d

Klaus, Henry, 306 E 40th

Koechig, Julius C., 717 6th av

Lamb, J. & R. (Inc.), 25 6th av

Maginn, Charles, 17 E 14th

Malz, Herman, 19 E 14th

Mayer & Co., 47 Barclay

Morgan, John & Sons, 61 E 9th

Parkhurst Bros., 156 5th av

Potter, E. G., Co., 477 5th av

Quin, Jno. F., 2192 B'way

Rae, G. & Co., 173 Prince

Rawson & Evans, 460 W B'way

Richter & Kolb, 165 5th av

Sellers, Benj., 80 Bible House

Spiers, Richard N., 859 6th av

Taft & Belknap Galleries, 1 E 40th

Tiffany Studios, 347 Madison av

Tyrolese Art Glass Co., 25 W B'way

(End of New York City)

ROCHESTER—Chapin, Louis S., 38 Exchange

Gustafson, J. H., 80 Main, W

Haskins Glass Co., 231 James

Pike Stained Glass Co., 25 Clinton av N

UTICA—Davis, Chas. P. Sons, 6 Noyes

YONKERS—De Angells, Fredk, 38 Nepperhan

OHIO.

CINCINNATI—Anchor Art Glass Co., 421
Elm

Erkins Art Glass Co., 633 Main

Flordan, G. C. & Co., 133 E 5th

Ruckel Art Glass Co., 535 S. Ramore

CLEVELAND—Korfage, John H., 2187 E 2d

Krause, E. F. Art Glass & Beveling W'ks,
1555 Columbus rd. N. W.

Lewis, H. W., 1042 St. Clair av. N. E.

Ursem Bros., 226 Superior av, N W

Whipple Art Glass Co., 329 Prospect av,
N. W.

Woodman, Geo. F., 5513 Kinsman rd,
S E

COLUMBUS—Bryant Bros. Art Glass Co., 79
E Main

Von Gerichten Art Glass Co.

DAYTON—Dayton Art Glass Works

Decorative Art Glass Co.

Rosbach Art Glass Works, 105 W Broad

Stevens Art Glass Co., 28 S St Clair

TOLEDO—Toledo Art Glass Co., 416 S St
Clair

YOUNGSTOWN—Dolde Art Glass Works

Ohio Art Glass Co.

OREGON.

PORTLAND—Potland Art Glass Works, 285½
Povey Bros. Glass Co., 100 N 5th Taylor

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Schuler=Mueller Co.

(Est. 1891. Incorp. 1902.)

248, 250, 252 EAST KINZIE STREET,
CHICAGO, ILL.

Formerly located S.W. Cor. Madison & Canal Sts.

FOR
CHURCHES,
PUBLIC BUILDINGS,
RESIDENCES.

ART GLASS LAMP
SHADES AND DOMES.

PENNSYLVANIA.

ERIE—Messenger, Benj.

PHILADELPHIA—Artistic Stained Glass Wks..

Callanan, Martha, 421 N 19th 222 N 4th

Century Stained Glass Works (Ltd.), 212 S 11th

Columbia Stained Glass Works, 25 S 2d

Decorative Glass Co., 3248 Chestnut

Dukes, Henry Glass Works, 2129 Market

FRENCH, S. H. & CO., 4th & Cal-

lowhill, (See adv. index, end of book)

Godwin, Alfred, 1343 Arch

Groves, R. S., 617 S Broad

Hawkins, Alfred W., & Son, 1823 S 19th

Hensel, C. F., 28 N 5th

Marcus Bros., 866 N 10th

Oesterle Stained Glass Works, 134 N 10th

Quaker City Stained Glass Works, 1407 Vine

Reith, Wm., 134 N 7th

Schmitt, Chas. N., 4th & Callowhill

Shilling, Albert, 934 N 13th

Smith, H. J. & Sons, 236 S 8th

Warnke, Albert J. F., 716 Dauphin

Weeder, F. Ellsworth, 1710 Chestnut

West Phila. Art Glass Works, 4219 Mar-

ket

PITTSBURGH—Castor, Thos. H., 214 Shetland

Connolly, Thos. A., & Co., 18 E Park-

way

Decorative Art Glass Co., 615 Oakwood

Hunt, Henry, 116 Elbon

Marshall, S. S., Art Glass Co., 109 E

Lacock

Petgen, Francis H., 6711 Hamilton av

Pittsburg Art Glass & Mosaic Decora-

tive Co., Isabella & Federal, N S

Pittsburg Stained Glass Works, 5929 Baum

Rudy Bros. Co., S Highland & Center

Schmidt, Chas. J., 14 Excelsior

Stenholm, H. A., 117 Shady av

Twin City Art Glass Works, 14 E La-

cock

Willett Stained Glass Co., 6614 Fifth av

READING—Kase, J. M., & Co.

RHODE ISLAND.

PROVIDENCE—Decorative Window Co., 43

N Main

Rhode Island Glass Co., 131 Washington

TENNESSEE.

MEMPHIS—Kemnitz, Emil, 280 S 3d

Memphis Stained Glass Works (John

Hughes, Prop.)

VIRGINIA.

NORFOLK—Virginia Art Glass Corp.

RICHMOND—Bunce Art Glass Co.

WASHINGTON.

SEATTLE—Puget Sound Art Glass Co.,

2225 9th av

Suess Art Glass Co., 2421 Western av

WEST VIRGINIA.

WHEELING—Wheeling Glass Letter &

Novelty Co.

WISCONSIN.

LA CROSSE—Art Glass Mfg. Co.

MILWAUKEE—Enterprise Art Glass Wks,

Enterprise bldg

Gavin Mirror & Art Glass Works, 521

Jackson

Hachman Art Glass Co., 168 Reed

Milwaukee Mirror Art & Glass Works,

203 B'way

OSHKOSH—Wisconsin Art Glass Co.

Glass Stainers' Supplies

Deissler, P. & Bro., 249 S 6th, Phila., Pa.

Glass (Structural Sanitary)

MARIETTA GLASS MFG. CO., Indian-

apolis, Ind. (See adv. index, end of book)

New York Structural Glass Co. ("Cos-

mos"), 47 W 34th, New York

Penn American Plate Glass Co. ("Novus"),

Pittsburg, Pa.

Glass (Vault & Sidewalk, Mfrs.)

Cambridge Glass Co., Cambridge, O.

Canton Glass Co., Marion, O.

Chicago Flint & Glass Lime Co., 62 Lake, Chi-

cago, Ill

Co-Operative Flint Glass Co., Beaver Falls, Pa.

Imperial Glass Co., Bellaire, O.

Orange County Flint Glass Works (Brox &

Ryall, Props.), Port Jervis, N. Y.

RODEFER, T. A. (Tiling for Archi-

tectural Iron Work), Bellaire, O. (See adv

index, end of book)

Sneath Glass Co., Hartford City, Ind.

*Glass Washboards

MARIETTA GLASS MFG. CO., Indian-

apolis, Ind. (See adv. index, end of book)

MISSISSIPPI GLASS CO., 115 B'way,

New York. (See adv. index & branch

offices, end of book)

Glass (Window, Mfrs.)

(Companies marked with a (*) are controlled

by the American Window Glass Co.)

*American Window Glass Co., Farmers' Bank

bldg, Pittsburg, Pa.

*Anderson Glass Co., Anderson, Ind.

Baker Bros. Glass Co., Arcadia, Ind.

Banner Window Glass Co., Sberidan, Ind.

Baur Window Glass Co., Eaton, Ind.

Brownsville Co-Operative Window Glass Co.,

Brownsville, Pa.

Chanute Window Glass Co., Chanute, Kan.

Christiana Window Glass Co., Wilmington, Del.

Cole Glass Co., Lancaster, O.

Columbus Plate & Window Glass Co., Colum-

bus, O., & Lancaster, O.

Covington Co-Operative Works, Covington, Pa.

Crown Glass Co., Matthews, Ind.

Cumberland Glass Mfg. Co., Bridgeton, N. J.

Cunningham, D. O. Glass Co., S 22d & Jane,

Pittsburg, Pa.

Diamond Window Glass Co., Gas City, Ind.

Dunkirk Window Glass Co., Gas City, Ind.

Eastern Ohio Glass Co., Barnesville, O.

Eldred Window Glass Co., Eldred, Pa.

*Elmira Glass Cutting Co., Elmira, N. Y.

George Window Glass Co., Wilcox, Pa.

*Hazlehurst Window Glass Co., Hazlehurst, Pa.

Ithaca Glass Mfg. Co., Ithaca, N. Y.

Johnston Glass Co., Hartford City, Ind.

King, Wm. & Bro., 113 W Fayette, Baltimore,

Md.

Marilla Co-Operative Glass Co., Montgomery,

W. Va.

More-Jones Glass Co. (Inc.), Bridgeton, N. J.

New Bethlehem Window Glass Co., New Beth-

lehem, Pa.

Ohio Falls Co-Operative Window Glass Co.,

New Albany, Ind.

Pacific Window Glass Co., Stockton, Cal.

Pendleton Window Glass Works, Pendleton, Ind.

Pittsburg Window Glass Co., Washington, Pa.

Progress Window Glass Co., Matthews, Ind.

Saginaw Plate Glass Co., Saginaw, Mich.

Smethport Glass Co., Smethport, Pa.

Sun Window Glass Co., Matthews, Ind.

*Swindell Bros., e Bayard & Russell, Balti-

van Cleve Glass Co., Wilcox, Pa. more, Md.

Western Glass Co., Streator, Ill.

Winslow Glass Co., Matthews, Ind.

Glass (Wire)

Abrogast-Brock Glass Co. (Transparent),

Pittsburg, Pa.

Continuous Glass Press Co., Penna. bldg,

Pbladelphia, Pa.

MARIETTA GLASS MFG. CO., Indian-

apolis, Ind. (See adv. index, end of book)

MISSISSIPPI WIRE GLASS CO., 115

B'way, New York. (See adv. index & branch

offices, end of book)

*Glass (Wire, Approved Fire Stop)

MARIETTA GLASS MFG. CO., Indian-

apolis, Ind. (See adv. index, end of book)

MISSISSIPPI WIRE GLASS CO., 115

B'way, New York. (See adv. index & branch

offices, end of book)

*Glass (Wire, for Fire-Proof Windows)

MARIETTA GLASS MFG. CO., Indian-

apolis, Ind. (See adv. index, end of book)

MISSISSIPPI WIRE GLASS CO., 115

B'way, New York. (See adv. index &

branch offices, end of book)

*Glass (Wire, for Show Cases)

MARIETTA GLASS MFG. CO., Indian-

apolis, Ind. (See adv. index, end of book)

MISSISSIPPI WIRE GLASS CO., 115

B'way, New York. (See adv. index &

branch offices, end of book)

*Glass (Wire, Skylight)

MARIETTA GLASS MFG. CO., Indian-

apolis, Ind. (See adv. index, end of book)

MISSISSIPPI WIRE GLASS CO., 115

B'way, New York. (See adv. index &

branch offices, end of book)

*Glasses (Cylindrical)

ROGERS, H. A. CO., 10 John, New York.

(See adv. index, end of book)

*Glasses (Lamp)

IRVING MFG. & TOOL CO. (J. F.

McCoy Co., Prop.), 169 Chambers, New

York. (See adv. index, end of book)

T. A. RODEFER, NATIONAL GLASS WORKS

MANUFACTURER OF

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SPECIALTIES IN OPAL, CRYSTAL, LEAD AND COLORED GLASS.

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Decorations. Blown and Pressed Specialties in Private Moulds

BELLAIRE, OHIO

Glasses (Port Hole)

Bache, Semon & Co., West & Hubert, New York

Glassware (Chemical & Druggists')

Canton Glass Co., Marlon, Ind.
Co-Operative Flint Glass Co. (Druggists'), Beaver Falls, Pa.
Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
Hazel Atlas Glass Co. (Druggists'), Wheeling, W. Va.
Penn Glass Tube Co., Bradford, Pa.
Swindell Bros., Bayard & Russell, Baltimore, Md.
Wagner Glass Works (Chemical Glassware & Apparatus), 965 E 132d, New York
Whitall Tatum Co., 410 Race, Phila., Pa.

Glassware (Electrical)

Freeman, Philip & Bros., 92 Bowery, New York

Glassware (Packers')

(See Jars, Fruit)

Glassware (Pressed)

Hazel Atlas Glass Co., Wheeling, W. Va.

Glassware (Stationers')

Tatum, Sam'l C. Co., Cincinnati, O.

Glauber's Salts

American Chemical Co., Cincinnati, O.
Butterworth-Judson Co., Newark, N. J.
Cochrane Chemical Co., Boston, Mass.
General Chemical Co., New York, N. Y.
Grasselli Chemical Co., Cleveland, O.
Merrimac Chemical Co., Boston, Mass.
Powers-Weightman-Rosengarten Co., Phila., Pa.
Thomsen Chemical Co., Baltimore, Md.
Wiarda, John C., & Co., Brooklyn, N. Y.

Glaziers' Points

(See Points, Glaziers')

Globes (Arc Lamp)

Cary, Edw. E. Co. ("Cohesive," Importers), 59 Park pl, New York
Corning Glass Works, Corning, N. Y.
Fostoria Glass Specialty Co. ("Nubiac" Inner), Fostoria, O.
Gill & Co., York & Thompson, Phila., Pa.
Gleason-Tiebout Glass Co., 95 Commercial, Brooklyn, N. Y.
Haskins Glass Co., Martins Ferry, O.
Libbey Glass Co., Toledo, O.
Lippincott Glass Co., Alexandria, Ind.
Macbeth-Evans Glass Co. ("Thermo," "Alba"), Pittsburg, Pa.
Murray, Jas. J. & Co. (Outer Globes Only), Trenton av & Willard, Phila., Pa.
Pairpoint Corporation, New Bedford, Mass.
Phoenix Glass Co., 15 Murray, New York, & Pittsburg, Pa.
Williamsburg Flint Glass Co., 260 Boerum, Brooklyn, N. Y.

Globes for Incandescent Light

Consolidated Lamp & Glass Co., 66 W B'way, New York
Fostoria Glass Specialty Co., Fostoria, O.
Gill & Co. (Inc.), c York & Thompson, Phila., Pa.
Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
Gleason-Tiebout Glass Co., 99 Commercial, Brooklyn, N. Y.
Handel Co. (Decorated, etc.), Meriden, Conn.
Haskins Glass Co., Martins Ferry, O.
Holophane Glass Co., Newark, O.
Lippincott Glass Co., Alexandria, Ind.
Macbeth-Evans Glass Co. ("Thermo," "Alba"), Pittsburg, Pa.
Murray, Jas. J. & Co., Trenton av & Willard, Phila., Pa.
Pairpoint Corporation, New Bedford, Mass.
Phoenix Glass Co. (Electric & Gas), 13 Murray, New York, & Pittsburg, Pa.
Williamsburg Flint Glass Co., 260 Boerum, Brooklyn, N. Y.

Globes (Fresnal, for Steamships)

Sneath Glass Co. (All Colors), Hartford City, Ind.

Globes (Inner Arc)

(See Globes, Arc Lamp)

Globes (Lantern)

Corning Glass Works, Corning, N. Y.
Gill Bros. Co., Steubenville, O.
Gillinder & Sons (Inc.), 135 Oxford, Phila., Pa.
Libbey Glass Co., Toledo, O.
Lippincott Glass Co., Alexandria, Ind.
Macbeth-Evans Glass Co., Pittsburg, Pa.
Murray, Jas. J. & Co., Trenton av & Westmoreland, Phila., Pa.

RODEFER, T. A. (For Lantern Mfrs.), Bellaire, O. (See adv. index, end of book)

Sneath Glass Co. (All Colors), Hartford City, Ind.

Williamsburg Flint Glass Co., 260 Boerum, Brooklyn, N. Y.

Globes & Shades (Prismatic)

Holophane Glass Co., Newark, O.

Gloves (Insulating)

(See Gloves, Rubber)

Gloves (Rubber)

Consumers Rubber Co. ("Standard"), Cleveland, O.
Davol Rubber Co., Providence, R. I.
Faultless Rubber Co., Ashland, O.
Goodrich, B. F. Co., Akron, O.
Goodyear Rubber Co., 787 B'way, New York
Goodyear's India Rubber Glove Mfg. Co., 503 B'way, New York
Imperial Rubber Mfg. Co. ("I. R." Seamless), Canton, O.
Miller Rubber Mfg. Co. (Also Finger Cots), Akron, O.
National India Rubber Co., Bristol, R. I.
Rubber Products Co., Barberton, O.

Glue (Fish)

American Glue Co., 150 Kinzie, Chicago, Ill.
Dodd, A. W. & Co., Gloucester, Mass.
HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Russia Cement Co., 103 Reade, New York
Power & Lyon Co., 95 Chambers, New York
Whittemore Bros. & Co., Cambridge, Mass.

Glue (Gelatine)

HEWITT, C. B. & BROS. (All Grades for all Purposes), 49 Beekman, New York. (See adv. index, end of book)
Michigan Carbon Works, Detroit, Mich.

***Glue Heaters (Electric)**

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Glue (Marine)

Ferdinand, L. W., & Co. ("Jeffrey's" Sole Importers), 201 South, Boston, Mass.
GROSCH, BRUNO & CO., 13 Jones St., New York. (See adv. index, end of book)

Glue (Shlac-lac)

Union Caseine Co. (Adheres to Glass, Metal, Wood, Leather, etc.), Philadelphia, Pa.

Glue Mfrs.**CALIFORNIA.**

SAN FRANCISCO—Armour Glue Works, 247 Butcher, L. H. Co., 208 1st Pine
California Glue Works, 6th av, So.
Western Meat Co., 6th & Townsend

DELAWARE.

WILMINGTON—Delaware Glue Co.

DISTRICT OF COLUMBIA.

WASHINGTON—O'Meara, Jno. N., 210 N. S W
Royal Glue Co., 1308 New York av, N W

ILLINOIS.

AURORA—Alba Mfg. Co.
CHICAGO—American Glue Co., 150 Kinzie
*Armour Glue Works, 3131 Benson
Baeder, Adamson & Co., 172 Lake
Bailey, C. T. & Co., 9 Jackson boul
California Glue Works, 9 Jackson boul
Chicago Glue Co., 1 Austin av
Clarkson Glue Co., 26 River
Delany & Co., 264 S Clinton
Dennis, Wm. J. & Co., 916 W Lake
Diamond Glue Co., 218 La Salle
Herrmann, J. F., & Co., 279 Dearborn
Hirsh, Stein & Co., 2841 S Ashland av
Layton Elastic Glue Co., 319 W 68th
Lister, Jos., 1158 Elston av
Midland Glue Co., 218 La Salle
Northwestern Glue Co., 144th & Packers
Spiegel, J. & Co., 218 La Salle av
Stein, Hirsh & Co., 2597 Archer av
Swift & Co., Union Stock Yards
Thurston, F. W. & Co., 29 River
U. S. Glue Co., 193 Lake
Wisdom & Co., 205 E. Lake

INDIANA.

INDIANAPOLIS — National Glue Co., 525 W
NEW ALBANY—Conrad & Krammcr 14th

MARYLAND.

BALTIMORE—Baugh & Sons Co., 25 S Calvert
Coulson, Edw. L., 1268 E North av
Standard Glue Co., 350 N Holliday
Stricker, Henry M. & Co., 1517 Howard
Wachter Mfg. Co., 509 W Pratt

MASSACHUSETTS.

BILLERICA—Jaquith, F. & J.
BOSTON—American Glue Co., 121 Beverly
Armour Glue Works, 49 Purchase
Baeder, Adamson & Co., 68 High
Commonwealth Glue Co., 655 Atlantic av
Consumers Glue Co., 157 Federal
Diamond Glue Co., 164 Federal
Ferdinand, L. W. & Co. (Cement "20th Century" & "Jeffrey's" Marine Sole Importers), 201 South
Hammond Glue Co., 121 Beverly
Holdfast Glue Co. ("Holdfast Animal Liquid"), 414 Atlantic av
International Glue Co., 176 Atlantic av
Martin, D. B., Co. (Inc.), 415 Atlantic av
Nash, E. W. Co., 90 Pearl
Rogers, E. A., 170 Summer (Importer)
Standard Glue Works, 88 Purchase
Whitten, J. O. Co., 68 Western av, Br.
GLOUCESTER—Dodd, A. W. & Co., 5 Wharf
Gloucester Isinglass & Glue Co., Eastern av
Russia Cement Co., off Essex av
LOWELL—Holt, Jno., & Co.
MARBLEHEAD—Marblehead Mfg. Co.
PEABODY—American Glue Co.
ROCKPORT—Elwell, B. F., Glue Co.
WOBURN—Baeder, Adamson & Co.
WORCESTER—Darling, L. B. F. Co.

MICHIGAN.

DETROIT—Fischer Gelatine Co., 2519 Jefferson av, W
Michigan Carbon Works, Forman & Carbon av
United States Glue Co., 1132 3d av
GRAND RAPIDS—G. R. Glue Co.
MUSKEGON—Schneidt, Aug.

MINNESOTA.

MINNEAPOLIS—Barber, W. H., Lumber Exch

MISSOURI.

ST. JOSEPH—Swift & Co., Stock Yards
ST. LOUIS—American Glue Co., 410 Elm
Clarkson Glue Co., 216 N Main
Mathiason, P. B. Mfg. Co., 5342 N. 2d
Reardon Mfg. Co., 1533 N B'way
St. Louis Glue Mfg. Co., 121 Locust
Tamm Bros. Glue Co., Vandeventer av & Wabash

NEW HAMPSHIRE.

KEENE—Keene Glue Co.

NEW JERSEY.

NEWARK—Baeder, Adamson & Co., Lockwood
c Albert av
Lister Agricultural Chemical Works, Lis-
ter av

NEW YORK.

BROOKLYN—(See New York City, Borough of
BUFFALO—Blehdon, Victor R. Brooklyn
Buffalo Reduction Co.
Couch, B. T. & Co.
GLOVERSVILLE—Fulton County Glue Co.
JOHNS TOWN—Fulton County Glue Co.
Knox, C. B., 217 Chestnut

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Arabol Mfg. Co., 58 Nostrand av
Cooper's, Peter Glue Factory, Maspeth av
ur Gardner av

Boroughs of Manhattan & Bronx.

NEW YORK—Am. Agricultural Chem. Co.,
10 Ferry

Armour Glue Works, 211 Pearl
Baeder, Adamson & Co., 67 Beekman
Blrd, J. A. & W., Co., 62 Malden la.
Cooper's Peter Glue Factory, 13 Burling
Delany & Co., 241 Water
Eagle Glue & Curled Hair Co., 2 Dover
HEWITT, C. B. & BROS., 49 Beekman,
New York. (See adv. Index, end of
book)

Isaac, S. & Co., 100 William & 299 Pearl
Milligan & Higgins Glue Co., 222 Front
National Glue & Gelatine Works, 502 W
45th

National Gum & Mica Co., 502 W. 45th
Russia Cement Co., 103 Rende
Somerville's, Wm. Sons, 292 Pearl
Stevenot, Chas. J. & Co., 388 Pearl
Townsend, Chas. & Bro., 276 Pearl

OHIO.

CINCINNATI—Blrd Glue Co., 3d & Main
Marienthal & Co., John & Livingston sts
S W
Stephens & Bro., Miami Canal & Marshall
av

CLEVELAND—Masek, Chas., 1320 Denison av.
S W

PENNSYLVANIA.

LANCASTER—Lamparter, E. J.
Lamparter, Geo.
PHILADELPHIA—American Glue Co., 142 N
Front

Baeder, Adamson & Co., 210 Chestnut
Baugh & Sons Co., 20 S Delaware av,
Phila., Pa.
Berg, A. Glue Co., Ontario below Rich-
mond

Commonwealth Glue Co., 108 Walnut
Delaney & Co., 209 N 3d
Diamond Glue Co., 328 Chestnut
Haws, Dan'l B., 30 N 5th
Marlin, D. B. Co. (Inc.), Land Title bldg
National Gum & Mica Co., 249 N Front
Philadelphia Glue Co., Lippincott bldg
Tunnell, F. W. & Co., 15 N 5th

PITTSBURG—Wilhelm, Henry, 136 10th
WARREN—Keystone Glue Co.

WISCONSIN.

MANITOWOC—Manitowoc Glue Co.
MILWAUKEE—United States Glue Co.

Gluers (Paper Box)

BECK, CHAS. PAPER CO. (LTD.), 607
Chestnut, Phila., Pa. (See adv. Index, end
of book)

Glutinate

Loos & Dilworth, 134 S Front, Phila., Pa.

Glycerine

Alba Mfg. Co., Aurora, Ill.
Clarkson Glue Co., 26 River, Chicago, Ill.
Goodwin Mfg. Co. (Chemically Pure), St. Louis,
Mo

Grasselli Chemical Co. ("C-P"), The Arcade
Cleveland, O., & 63 Wall, New York
Harshaw, Fuller & Goodwin Co., Electric
bldg, Cleveland, O.

Marx & Rawolle, 100 William, New York
Proctor & Gamble Co., Cincinnati, O.
Schneider, E. & Co., Fisher bldg, Chicago, Ill.
Tennant's, C. Sons & Co. (Importers), 76 Wil-
lam, New York

Will & Baumer Co. (Distillers), Syracuse, N. Y.

Goggles (Sand Blast)

American Diamond Blast Co., 50 Church, New
York

Goggles & Eye Protectors

Demmerle & Co., 248 W 23d, New York
Detroit Motor Car Co., Detroit, Mich.
Globe Optical Co., Boston, Mass.
Hayward, S. F. & Co., 39 Park pl, New York
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. Index, end of book)

Lamb Eye Shield Co., Boston, Mass.
Meyrowitz, E. B., 104 E 23d, New York
Motor Car Supply Co., 1420 Michigan av, Chi-
cago, Ill.

Munsell, Eugene Co., 218 Water, New York
Ophthalmoscope Co., Toledo O.
Rhode Island Eye Shield Co. ("Weldron"),
Providence, R. I.

Scheidt, Jno. B. & Co., 43 Malden la, New
York

Spencer Optical Co., 12 Malden la, New York
Sussfield Lorsch Co., 37 Malden la, New York
Scheffer & Rossum Co., St. Paul, Minn.
Texas Co., Chicago, Ill.

**Gold Leaf for Outside Decora-
tions**

Hickson, Stephen, 559 Broome, New York
Kemp, W. H. Co., 165 Spring, New York

***Gold and Silver Sheet & Plate**

UNITED WIRE & SUPPLY CO., 109
Summer, Providence, R. I. (See adv. in-
dex, end of book)

Gongs (Car, Etc.)

(See Bells & Gongs, Car)

Gongs (Electro-Mechanical)

Boston Electric Co., 29 Harrison av, Boston,
Mass.

BUNNELL, J. H. & CO., Park pl. &
Church, New York. (See adv. Index, end
of book)

Electric Goods Mfg. Co., 115 Purchase, Boston,
Mass.

Edwards & Co., 140th & Exterior, New York
Gamewell Fire Alarm Telegraph Co., 19 Bar-
clay, New York

Marshall Electric Co. ("M-S"), Boston, Mass.
Partrick, Carter & Wilkins Co., 22d & Wood
Phila., Pa

Pearce, Frederick Co., 18 Rose, New York
Star Electric Co., Binghamton, N. Y.

***Gongs (Steam)**

UNION WATER METER CO., Wor-
cester, Mass. (See adv. Index, end of book)

Gongs (Unmounted Electric Bell)

American Tube & Stamping Co., Bridgeport,
Conn.

Bevin Bros. Mfg. Co., East Hampton, Conn.
Bridgeport Brass Co., Bridgeport, Conn.

East Hampton Bell Co., East Hampton, Conn.
Gong Bell Mfg. Co., East Hampton, Conn. (See
Hardware & Woodenware Mfg. Co.)

Hardware & Woodenware Mfg. Co., 826 B'way,
New York

Hill, N. N. Brass Co., East Hampton, Conn.
(See Hardware & Woodenware Mfg. Co.)

Plume & Atwood Mfg. Co., Waterbury, Conn.
Waterbury Mfg. Co., Waterbury, Conn.

Gouges

BERNZ, OTTO S., 13th & S Orange,
Newark, N. J. (See adv. Index, end of book)

Bradley's G. W. Sons (Inc.) (Ship), Westport,
Conn.

Buck, Chas., Millbury, Mass.
Buck Bros., Millbury, Mass.

Mack & Co. ("D. R. Barton"), Rochester, N. Y.
New England Specialty Co., North Easton, Mass.

Ohio Tool Co., Columbus O.
Reliance Edge Tool Co., Youngstown, O.

Stortz, John, & Son, 210 Vine, Phila., Pa.
Swann, Jas. Co., Seymour, Conn.

White, L. & I. J. Co., Buffalo, N. Y.
Winsted Edge Tool Works ("T. H. With-
erby"), Winsted, Conn.

Governors (Compressor)

ANDERSON FORGE & MACHINE CO.,
271 Guolin, Detroit, Mich. (See adv. Index,
end of book)

FOSTER ENGINEERING CO., 119
Monroe, Newark, N. J. (See adv. Index,
end of book)

INGERSOLL - RAND CO., 11 B'way,
New York. (See adv. Index & branch offices,
end of book)

Jarecki Mfg. Co. ("Erle"), Erle, Pa., & Pitts-
burg, Pa.

Governors (Electric Pump)

Fisher Governor Co. ("Pearson"), Marshall-
town, Iowa

FOSTER ENGINEERING CO., 119
Monroe, Newark, N. J. (See adv. Index,
end of book)

Ford, Thos. P., Co., 407 Broome, New York

Governors (Feed Water)

(See Regulators, Feed Water)

Governors (Gas)

Baylis Company, 140 Washington, New York
Cadman, A. W. Mfg. Co. ("Cadman's"), 2814
Smallman, Pittsburg, Pa.

Chaplin-Fulton Mfg. Co. ("Fulton" for Dis-
tribut or Service Use; also "Duplex" Sen-
sitive with Automatic Cut-Off), Pitts-
burg, Pa.

Connelly Iron Sponge & Governor Co. (Auto-
matic, Balance, High Pressure & Ser-
vice), 50 Church, New York

Equitable Meter Co. ("Crawford," Street
Main Governors), Pittsburg, Pa.

Ford, A., Oakland, Cal.

Gas Machinery Co., Citizens bldg, Clevel-
and, O.

Helme & McIlhenny ("Foulls" Station),
1330 Cherry, Phila., Pa.

Isbell-Porter Co. (Street Governors), New-
ark, N. J.

Lee Gas Governor Co., Providence, R. I.

Leffler, Chas. & Co. ("Automatic"), 63 Cly-
mer, Brooklyn, N. Y.

New Amsterdam Mfg. Co. ("The Colonial"),
104 Washington, New York

Reynolds Gas Regulator Co. (High Pres-
sure), Anderson, Ind.

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. Index, end of
book)

***Governors (Motor Compressor)**

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. Index & branch offices, end
of book)

INGERSOLL - RAND CO., 11 B'way,
New York. (See adv. Index & branch offices,
end of book)

WESTINGHOUSE TRACTION BRAKE CO.,
Pittsburg, Pa.

Governors (Oil, Pneumatic)

National Brake & Electric Co. ("National,"
for Electric Cars), Milwaukee, Wis.

Governors (Pressure)

FOSTER ENGINEERING CO., 119
Monroe, Newark, N. J. (See adv. Index,
end of book)

Johnson Service Co. (For Steam Boilers, Air
Compressors, etc.), Milwaukee, Wis.

Governors (Pump)

(See also Regulators, Pump)

Acton, John (Leather Cup Pump Governors),
116 John, Brooklyn, N. Y.

Albany Steam Trap Co. ("Blesslug"), Albany,
N. Y.

All Metal Valve Co. (Vacuum), 136 Liberty,
New York

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. Index & branch offices, end
of book)

Atlas Engineering Co., Newark, N. J.

Atwood & Morrill ("XX Century"), Salem,
Mass.

Berry Engineering Co. ("Berry"), Chester, Pa.

Boston Steam Specialty Co., 168 Congress,
Boston, Mass.

Burrows Mfg. Co. (Automatic), York, Pa.

Carr, E. M. Pump Governor Co., New Castle,
Ind

Chaplin-Fulton Mfg. Co., Pittsburg, Pa.
Chicago Engineer Supply Co. ("Boylston"),
112 Lake, Chicago, Ill.
Consolidated Engineering Co. ("Van Anken,"
for Feed & Vacuum Pumps), cor Jackson &
Canal, Chicago, Ill.
Collins Mfg. Co. ("Griffith's" Automatic),
612 Chestnut, Phila., Pa.
Davis, G. M. Regulator Co. (Auto. Condenser &
Receiver), 144 Milwaukee av., Chicago, Ill.
D'Este, Julian Co., 24 Canal, Boston, Mass.
DONEGAN & SWIFT, 9 Murray, New
York. (See adv. index, end of book)
Fisher Governor Co. ("Fisher"), Marshalltown,
Ia.
Ford, Thos. P. Co. (Automatic), 407 Broome,
New York
FOSTER ENGINEERING CO. (Diaph-
ragm or Piston Operated, Hydraulic, Am-
monia, Excess Boiler Feed, Vacuum, Fuel
Oil, etc.), 119 Monroe, Newark, N. J. (See
adv. index, end of book)
GARDNER GOVERNOR CO., Quincy, Ill.
(See adv. index, end of book)
Hughson Steam Specialty Co. ("Eclipse"),
860 S Halstead, Chicago, Ill.
Ideal Automatic Mfg. Co. ("Ideal"), 125
Water, New York
Johnson Service Co., Milwaukee, Wis.
Kieley & Mueller ("Rockaway" Automatic), 7
W 13th, New York
Kitts Mfg. Co. (Pressure), Oswego, N. Y.
Klipter Mfg. Co. ("K. & T.", "Metz"), 44
N Carpenter, Chicago, Ill.
Linton Machine Co., 26 Cortlandt, New York
Locke Regulator Co. ("Beats-All"), Salem
Mason Regulator Co., Boston, Mass.
Middlesex Machine Co. ("Legg"), Lowell, Mass.
Monash-Yonker Co. ("Monarch"), 201 S Canal,
Chicago, Ill.
Murray Automatic Boiler Feed Co., Detroit,
Mich.
Northern Equipment Co. ("Copes"), Old
Colony bldg, Chicago, Ill.
OTIS ELEVATOR CO. (Electric), 17 Bat-
tery pl, New York. (See adv. index &
branch offices, end of book)
S. C. Regulator Co. ("S.-C."), Fostoria, O.
Schaeffer & Budenberg Mfg. Co., 963 Kent
av., Brooklyn, N. Y.
Simonds Heating & Specialty Co. ("Simonds")
Vacuum Pump, Detroit, Mich.
Standard Steam Specialty Co. ("Utility"), 542
W B'way, New York
Steam Appliance Co. ("Victor"), Milwaukee,
Wis.
STRONG, CARLISLE & HAMMOND
Co. ("The Squires"), 336-344 Frankfort av.,
N W, Cleveland, O. (See adv. index, end
of book)
Van Anken Motor & Machine Works, Bridge-
port, Conn.
UNION WATER METER CO., Wor-
cester, Mass. (See adv. index, end of book)
Waters Governor Co., Everett, Mass., & Bos-
ton, Mass.
Watson & McDaniel Co. ("Watson") Steam
Pump, 146 N 7th, Phila., Pa.
Watts Regulator Co. (Watts), Lawrence, Mass.
Williams, D. T. Valve Co., 904 B'way, Cin-
cinnati, O.
Williams Gauge Co. ("Williams"), 543 4th
av., Pittsburg, Pa.

Governors (Steam Engine)

Bayard, M. L. & Co., Woodbine, N. J.
DONEGAN & SWIFT, 9 Murray, New
York. (See adv. index, end of book)
Eclipse Governor Co. ("Eclipse"), Vicksburg,
Mich.
FOSTER ENGINEERING CO., 119
Monroe, Newark, N. J. (See adv. index
end of book)
GARDNER GOVERNOR CO., Quincy, Ill.
(See adv. index, end of book)
Ganter Mfg. Co., Owensboro, Ky.
Jarecki Mfg. Co., Erie, Pa.
Jones & Kuhlke ("Standard"), Akron, O.
Judson Governor Co., Rochester, N. Y.
Nordberg Mfg. Co. (Automatic Cut-off), 476
Virginia, Milwaukee, Wis.
Pickering Governor Co., Portland, Conn.
Sinker-Davis Co. ("King," "Hoosier," "Rites")
230 S Missouri, Indianapolis, Ind.
Waters Governor Co., Everett, Mass., & Bos-
ton, Mass.
Watts Regulator Co., Lawrence, Mass.

Governors (Water Wheel)

COHOES IRON FOUNDRY & MA-
chine Co. ("Snow"), Cohoes, N. Y. (See
adv. index, end of book)
Holyoke Machine Co., Holyoke, Mass.
Humphreys Machine Co., Keene, N. H.

Junt, Rodney Machine Co., Orange, Mass.
Johel, Jas. & Co., Springfield, O.
Lombard Governor Co., Ashland, Mass.
Ludlow Valve Mfg. Co. (Sturgess Engineering
Dept.) ("Sturgess"), Troy, N. Y.
Replogle Governor Works, Akron, O.
Sturgess Engineering Dept. of Ludlow Valve
Mfg. Co. ("Sturgess"), Troy, N. Y.
Trump Mfg. Co., Springfield, O.
Woodward Governor Co., Rockford, Ill.

Grabber (Anti-Waste)

Lawrence, V. O. Co. (For Journal Boxes),
Philadelphia, Pa.

Gradometers

(See Meters, Distance Recording)

Grain Doors

(See Car Doors & Fittings)

Grain Elevator Builders

American Machinery & Construction Co., Mil-
waukee, Wis.
Barnard Machinery Co., Enterprise, Kan.
Barnett & Record Co., Corn Exch., Minneapolis
Minn.
Buege, L., Boston Bldg., Minneapolis, Minn.
Campbell, J. A. & Son, Lincoln, Neb.
Chapman, A. F. & Co., Prudential bldg, Buffalo,
N. Y.
Concrete Construction Co. (Reinforced Con-
crete), Bailey bldg, Philadelphia, Pa.
Gleaser, Wilhelm Engineering Co., 11 B'way,
New York
JEFFREY MFG. CO., Columbus, O. (See
adv. index & branch offices, end of book)
Lind, John Co., Minneapolis, Minn.
Macdonald Engineering Co., Monadnock bldg,
Chicago, Ill.
Metcalfe, John S. Co., Woman's Temple, Chi-
cago, Ill.
MINNEAPOLIS STEEL & MACHINERY
Co., Minneapolis, Minn. (See adv. index
& branch offices, end of book)
Modern Warehouse Elevator Co., Colfax, Wash.
Steel Storage & Elevator Construction Co.
(Steel), Prudential bldg, Buffalo, N. Y.
STEWART, JAS. & CO., New Nat'l
Bank of Commerce bldg, St. Louis, Mo.
(For complete list of branch offices, see end
of book)
Younglove Construction Co., Mason City, Iowa

Grain Elevators (Portable)

Camp Bros. & Co. ("Camp"), Metamora, Ill.
Engel, J. A. & Co. ("Duerlinger"), Peoria, Ill.
Klug & Hamilton Co. ("American"), Ottawa, Ill.
Marselles Mfg. Co. ("Marselles"), Marselles,
Ill.
Meadows Mfg. Co. ("Rocke"), Meadows, Ill.
Portable Elevator Mfg. Co. ("Little Giant"),
Bloomington, Ill.
Schroeder Bros. ("Schroeder's"), Miner, Ill.
Steele, Ben. Welgher Mfg. Co., Peoria, Ill.
Warner Elevator Mfg. Co. ("Dakota," "Gopher,"
"North Star," "Warner"), Warner, Ill.
Wenzelmann Mfg. Co. ("Wenzelmann"), Gale-
sburg, Ill.

Granite (Black)

Pelree, John Co., 90 West, New York

Granite Building Work (Cutters' & Contractors')

(These names are duplicated under the head of
Granite Producers, Workers & Dealers)

Anderson, Oia, Concord, N. H.
Benvenue Granite Co., 41 Park Row, New York
Blrney, R. C. & Co., 1215 Filbert, Phila., Pa.
Bishop, J. W. Co., Worcester, Mass., Boston,
Mass., Providence, R. I.
Bodwell Granite Co., Rockland, Me.
Booth Bros. & Hurricane Isle Granite Co., 207
B'way, New York
BROWN, HERBERT L. CO., 26th & 5th av
New York. (See adv. index & branch
offices, end of book)
Cross Bros., Northfield, Vt., & 27 E 21st, New
York
ELLIS, E. B. GRANITE CO., North-
field, Vt. (See adv. index, end of book)
Fletcher, H. E. & Co. (Mausoleums, Vanits
etc.), West Chelmsford, Mass.
Flint Granite Co., 1133 B'way, New York.

Flynt, W. N. Granite Co., Monson, Mass.
Georgia Quincy Granite Co., Macon, Ga.
Granite Railway Co., Quincy, Mass.
GUILFORD & WALTERSVILLE
Granite Co., 3 E Lexington, Baltimore, Md.
(See adv. index & branch offices, end of book)
Hallowell Granite Works, Hallowell, Me., & 53
State, Boston, Mass.
Joues Bros. Co. (Monumental Work a Spe-
cialty), Boston, Mass.
Ladd, F. M. & Co., New London, Conn.
LEOPOLD, J. & CO., 18 B'way, New
York. (See adv. index, end of book)
McClenahan Granite Co., Port Deposit, Md.
Maine Red Granite Co., Red Beach, Me.
Maine & New Hampshire Granite Co., Portland,
Me.
Mitchell, Geo. H., First National Bank bldg,
Chicago, Ill.
Mount Waldo Granite Works, Frankfort, Me.,
& 277 B'way, New York
NEW ENGLAND GRANITE WORKS,
Westerly, R. I. (See adv. index & branch
offices, end of book)
Norcross Bros. Co., Worcester, Mass.
North Carolina Granite Corp., Mount Airy,
N. C.
Pelree, Jno. Co., 90 West, New York
PENNA MARBLE & GRANITE CO.,
Penna bldg, Phila., Pa. (See adv. index,
end of book)

PENNA WHITE

UNIFORM COLOR,
HARD CLOSE GRAIN, THE

**MOST DURABLE
BUILDING STONE**

Will preserve original color and ap-
pearance under the most severe
climatic conditions.

**HIGH CLASS BUILDING WORK.
MAUSOLEUMS A SPECIALTY.**

Penna Marble & Granite Co.

Quarry Owners & Cut Stone Contractors,

Penna Bldg., PHILADELPHIA, PA.

PETERSBURG GRANITE CO., 3 E
Lexington, Baltimore, Md. (See adv. in-
dex & branch offices, end of book)
Pigeon Hill Granite Co., Rockport, Mass.
ROCKPORT GRANITE CO., Rockport,
Mass. (See adv. index & branch offices, end
of book)

St. Cloud Granite Works, St. Cloud, Minn.
SCHILLING, FRANK H., 614 Hale bldg.,
Phila., Pa. (See adv. index, end of book)
Schneider Granite Co., Fullerton bldg., St.
Swenson, Jno, Concord, N. H., Louis, Mo.
Troy White Granite Co., Troy, N. H., &
Worcester, Mass.
Twen, Con. Granite Co., Little Rock, Ark.
Venable Bros., 804 Temple Ct, Atlanta, Ga.
Webb Granite & Construction Co., Worcester,
Mass.
Webb Pink Granite Co. ("Milford Pink"), Quar-
ries: Worcester, Mass.
Wells, Lamson Quarry Co., Barre, Vt.
Wetmore & Morse Granite So. (Rough Barre
Granite), Montpelier, Va.
White Granite Co., Long Island City, N. Y.
Windsor Green Granite Co., Worcester, Mass.,
& Windsor, Vt.
Winshoro Granite Co., Rion, S. C.
Woodbury Granite Works, Hardwick, Vt.

Granite Columns (Polished)

Blake, Chas. G. & Co., 184 La Salle, Chicago.
Bodwell Granite Co., Rockland, Me., Ill.
Booth Bros. & Hurricane Isle Granite Co., 207
B'way, New York

BROWN, HERBERT L. CO., 26th & 5th av.
New York. (See adv. index & branch of-
fices, end of book)

Fletcher, H. E. & Co., West Chelmsford, Mass.
Fletcher & Lahey, West Chelmsford, Mass.
Granite Railway Co., Quincy, Mass.
Hallowell Granite Works, Hallowell, Me.
Jones Bros. Co., 161 Summer, Boston, Mass.

NEW ENGLAND GRANITE WORKS,
Westerly, R. I. (See adv. index & branch of-
fices, end of book)

Norcross Bros. Co., Worcester, Mass.

PENNA MARBLE & GRANITE CO.,
Penna bldg, Phila., Pa. (See adv. index,
end of book)

PICTON ISLAND RED GRANITE CO.
(Pluk & Red), 320 5th av, New York. (See
adv. index, end of book)

Richards John R., Quincy, Mass.

ROCKPORT GRANITE CO., Rockport,
Mass. (See adv. index & branch offices, end
of book)

St. Cloud Granite Works, St. Cloud, Minn.

SCHILLING, FRANK H., 614 Hale bldg.,
Philadelphia, Pa. (See adv. index, end of
book)

Simmers & Campbell (Turned & Polished),
St. Cloud, Minn.

Wells, Lamson Quarry Co., Barre, Vt.

White Granite Co., West av, Long Island
City, N. Y. Quarries: Blue Hill, Me.
Woodbury Granite Co., Hardwick, Vt.

Granite (Crushed)

(See Stone, Crushed; also Trap Rock)

Granite (Ligonier)

Booth & Flinn (Ltd.), 1942 Forbes av., Pitts-
burg, Pa.

Granite Mausoleum & Vault Builders

(See Granite Building Work, Cutters & Con-
tractors)

Granite Meal

Donovan, Jno. J., 203 B'way, New York
McClenahan Bros. Granite Co., Port Deposit,
Md.

*Granite (Monumental)

BROWN, HERBERT L. CO. (Jersey & No.
Carolina Pink, Hallowell White & Maine
Red), 26th & 5th av, New York. (See adv.
index & branch offices, end of book)

PICTON ISLAND RED GRANITE CO.
(Pink & Red), 320 5th av, New York. (See
adv. index, end of book)

SCHILLING, FRANK H., 614 Hale bldg.,
Phila., Pa. (See adv. index, end of book)

Granite (Monumental Work)

(See Granite Building Work, Cutters & Con-
tractors; also Barre, Vt.; Quincy, Mass., &
Westerly, R. I., in Granite Producers,
Workers & Dealers)

*Granite (Porphyry Syenite & Labradorite)

BOCKMANN & SHEPARD, 1265-9
B'way, New York. (See adv. index, end of
book)

Granite Producers (Pink)

Balfour Quarry Co., Asheville, N. C.

Booth Bros. & Hurricane Isle Granite Co., 207
B'way, New York

BROWN, HERBERT L. CO. (Jersey & No.
Carolina Pink), 26th & 5th av, New York.
(See adv. index & branch offices, end of book)
Fletcher, H. E. & Co., West Chelmsford, Mass.
Geddis & Serrie Stone Co., Continental bldg.,
Denver, Colo.

Lovejoy Granite Co., Milford, N. H.

LEOPOLD, J. & CO., 18 B'way, New York.
(See adv. index, end of book)

Milford Quarry & Construction Co., Milford,
N. H.

NEW ENGLAND GRANITE WORKS,
Westerly, R. I. (see adv. index & branch
offices, end of book)

Norcross Bros. Co. (Milford Pink), Worcester,
Mass.

PICTON ISLAND RED GRANITE CO.
(Also Red), 320 5th av, New York. (See
adv. index, end of book)

SCHILLING, FRANK H., 614 Hale bldg.,
Phila., Pa. (See adv. index, end of book)
Sweeney Granite Works, Westerly, R. I.
Webb Pink Granite Co., Worcester, Mass.

Granite Producers (Red)

Anderson Bros. & Johnson (Wassau Red), Gran-
ite Heights, Wis.

Bodwell Granite Co., Rockland, Me.

Booth Bros. & Hurricane Isle Granite Co., 207
B'way, New York

BROWN, HERBERT L. CO. (Maine Red),
26th & 5th av, New York. (See adv. index
& branch offices, end of book)

LEOPOLD, J. & CO., 18 B'way, New
York. (See adv. index, end of book)

Maine Red Granite Co., Red Beach, Me.

NEW ENGLAND GRANITE WORKS.
(Westerly Red, etc.), Westerly, R. I. (See
adv. index & branch offices, end of book)

Norcross Bros. Co. (Stony Creek, etc.), Wor-
cester, Mass.

Peirce, John Co., 90 West, New York

PICTON ISLAND RED GRANITE CO.
(Also Pink), 320 5th av, New York. (See
adv. index, end of book)

ROCKPORT GRANITE CO., Rockport,
Mass. (See adv. index & branch offices, end
of book)

SCHILLING, FRANK H., 614 Hale bldg.,
Phila., Pa. (See adv. index, end of book)

Smith Granite Co., Westerly, R. I.
Sweeney Granite Works, Westerly, R. I.

Granite Producers, Workers & Dealers

(Those marked with the Star (*) have Quarries)

All other Granite classifications are dupli-
cates of this list.

(See also Granite Building Work, Cutters &
Contractors; also Granite Columns, Polished;
also Marble Producers; also Stone Pro-
ducers, Workers & Dealers)

CALIFORNIA.

EXETER—*Rocky Point Granite Works

NEVADA CITY—*Bridges, E. D.

PENRYN—*Griffith, David

Ailson, Oscar

Anderson, Oscar

Brand Granite Co.

California Granite Co.

Hendrickson, S.

Hilppikka, H.

Jauhila, Jacob

*Johnson, Peter

*Kesti, O.

Lawrence Development Co.

Marx, Albert W.

Naykki, Nicholas

Pisila, John

Roberts, David A.

Ruhkala, Matt

SACRAMENTO—*Carlow Bros.

SAN DIEGO—*Simpson, Pirnie Granite Co.

SAN FRANCISCO—McGilvray Stone Co.,

Townsend nr 7th

McGilvray Stone Co., Townsend nr 7th

Raymond Granite Co., 10th & Division

SAN JOSE—*Western Granite & Marble Co.

COLORADO.

DENVER—*Denver Marble & Granite Co.,
1224 Lawrence

*Denver Marble & Granite Co., 1224 Law-
rence

Geddis & Seerie Stone Co., Continental bldg

Rauh, Mrs. A., 3601 Blake

CONNECTICUT.

GROTON—*Salter, J. & Son

HADDAM—*Dickinson, Azariah

LEETES ISLAND—Beattie, John

MILLSTONE—Gardner, Henry

NEW HAVEN—Bowden, Thos., 139 Sylvan av

NEW LONDON—Booth Bros. & Hurricane Isle

Granite Co. (Red, Grey, White, etc.)

Buckley, Michael, D.

*Kopp, Jacob K.

Ladd, F. M. Co.

Sayle, Thos., Jr.

NORWALK—Bates, Jno. S.

STONY CREEK—Stony Creek Red Granite Co.

WATERFORD—*Booth Bros. & Hurricane Isl.

Granite Co.

DISTRICT OF COLUMBIA.

WASHINGTON—*Acker & Co., 524 N. J. av,
NW
Falvey, Michael J., Pa. av c 21st, N. W.

GEORGIA.

ATLANTA—Atlanta-Indiana Stone Co.

Cherokee Marble & Granite Co.

Georgia Granite Co.

Pine Mountain Granite Co.

*Venable Bros., Temple Court

ELBERTON—Elberton Granite Co.

*Long Blue Granite Co.

LITHONIA—Brand, J. T.

Brantley Granite Co.

Evans, W. P.

Kelly Granite Co.

*Pine Mountain Granite Co.

Reagan, E. O. & Co.

*Southern Granite Co.

MACON—*Georgia Quincy Granite Co.

REDAN—*Wells Granite Co.

SAVANNAH—Dixie Stone Co.

TATE—Sickles, Geo. B. Marble Co.

ILLINOIS.

BLOOMINGTON—Higgins-Jung-Klein Co.

Moore, J. K.

**CHICAGO—American Granite Co. (Wholesale-
ers), Cham. of Commerce bldg**

Barclay Bros., 79 Dearborn

Blake, Chas. G. & Co., 184 La Salle

Edwards & Ward, Fullerton av Bridge

Fenn, C. E. & Co. (Wholesalers), 164 Dear-
born

Gall, Chas. H., 79 Dearborn

Laechle, W. C. Co., 108 La Salle

MacLane, Edw., 36 La Salle

Montello Granite Co., 138 Washington

More, Chas. H., 164 Dearborn

Peirce, John Co., 138 Jackson boul.

Wausara Granite Co., 172 Washington

Wiscousin Granite Co., Chamber of Com-
merce bldg

MAINE.

ADDISON—Pleasant River Granite Co.

BANGOR—*Bangor Granite Co.

*Queen City Granite Co.

BIDDEFORD—Gowen & Co.

*Howe, L. B. & Co.

BLUE HILL—*Chase Granite Co.

CALAIS—Douglas Bros.

CLARK'S ISLAND—*Clark's Island Granite

Works

FRANKFORT—*Mount Waldo Granite Works

FRANKLIN—Blaisdell, W. B. & Co.

Bragdon & Fernald

Harvey, W. T., Jr., & Son

FREEPORT—*Long & Saunders Quarry Co.

FRYEBOURG—*Eagle Gray Granite Co.

HALLOWELL—BROWN, HERBERT L. &

Co. (Jersey & No. Carolina Pink, Hallow-
ell White & Maine Red). (See adv.
index, end of book)

*Hallowell Granite Works.

HANCOCK—Abbott, E. E.

HANCOCK—Abbott, Alonzo

JONESBORO—*Bodwell Granite Co.

*Booth Bros. & Hurricane Isle Granite Co.

MOUNT DESERT—Allen Granite Co.

NORTH JAY—*Maine & New Hampshire

Granite Corp.

*Maine & New Hampshire Granite Corp.

NORTH SULLIVAN—Abbott, Alonzo

Bragdon & Fernald

Crabtree & Havey

Havey, W. T., Jr., & Son

Hooper, Havey & Co.

Robertson, Ira J. (Est. of)

PORTLAND—Hawkes Bros., ft of Wilnot

*Maine & New Hampshire Granite Corp'n

Union Granite Co., ft of Wilnot

RED BEACH—*Maine Red Granite Co.

Mingo & Bailey

ROCKLAND—Bodwell Gran. Co. (Red & Grey)

*Booth Bros. & Hurricane Isle Granite Co.

(Red, Grey, White, etc.)

ROCKPORT—*Achor Bros.

SOUTH THOMASTON—Green, Geo.

Ingram, John

SPRUCE HEAD—*Bodwell Granite Co.

STONINGTON—Benvenue Granite Co.

*Goss, John L.

*Hagan, John & Co.

*Latty Bros. Granite Co.

SULLIVAN—*Dunbar Bros.

SWANVILLE—Webb, F. J. & F. T.

**TENANTS HARBOR—Booth Bros. & Hurri-
cane Isle Granite Co.**

THOMASTON—Burton, Alvah F.

VINALHAVEN—Black, J. S.

WATERVILLE—*Waterville Granite Co.

WHITEFIELD—*Jewett, E. C.

ROCKPORT GRANITE CO.

QUARRIERS AND PRODUCERS OF

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GRANITE

FOR ALL CLASSES OF BUILDING
AND BRIDGE WORK

We are large producers of granite
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furnish broken stone in any quantity

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Steamship "Wilhelmina" loading at one of our docks with
2,500 tons of stone for Key West, Fla.



H. BACON, Architect

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HERBERT L. BROWN COMPANY

**MARBLE
GRANITE
LIMESTONE**

Indiana Limestone

Hallowell White Granite
Quarries

New Jersey Pink Granite
Quarries

Georgia, Vermont and
Tennessee Marble

**225 FIFTH AVENUE
(BRUNSWICK)
BUILDING) NEW YORK**

WHITE, GREY, PINK, RED, BLUE, GREEN,

ROUGH AND FINISHED



GRANITE

Indiana Limestone

LARGE QUARRIES AND CUTTING PLANTS,
EQUIPPED WITH THE BEST FACILITIES FOR
GETTING OUT FIRST CLASS WORK PROMPTLY

WE QUOTE PRICES that GET CONTRACTS

No Contract too Large, None too Small

We make a Specialty of Bank Buildings and Granite Fronts

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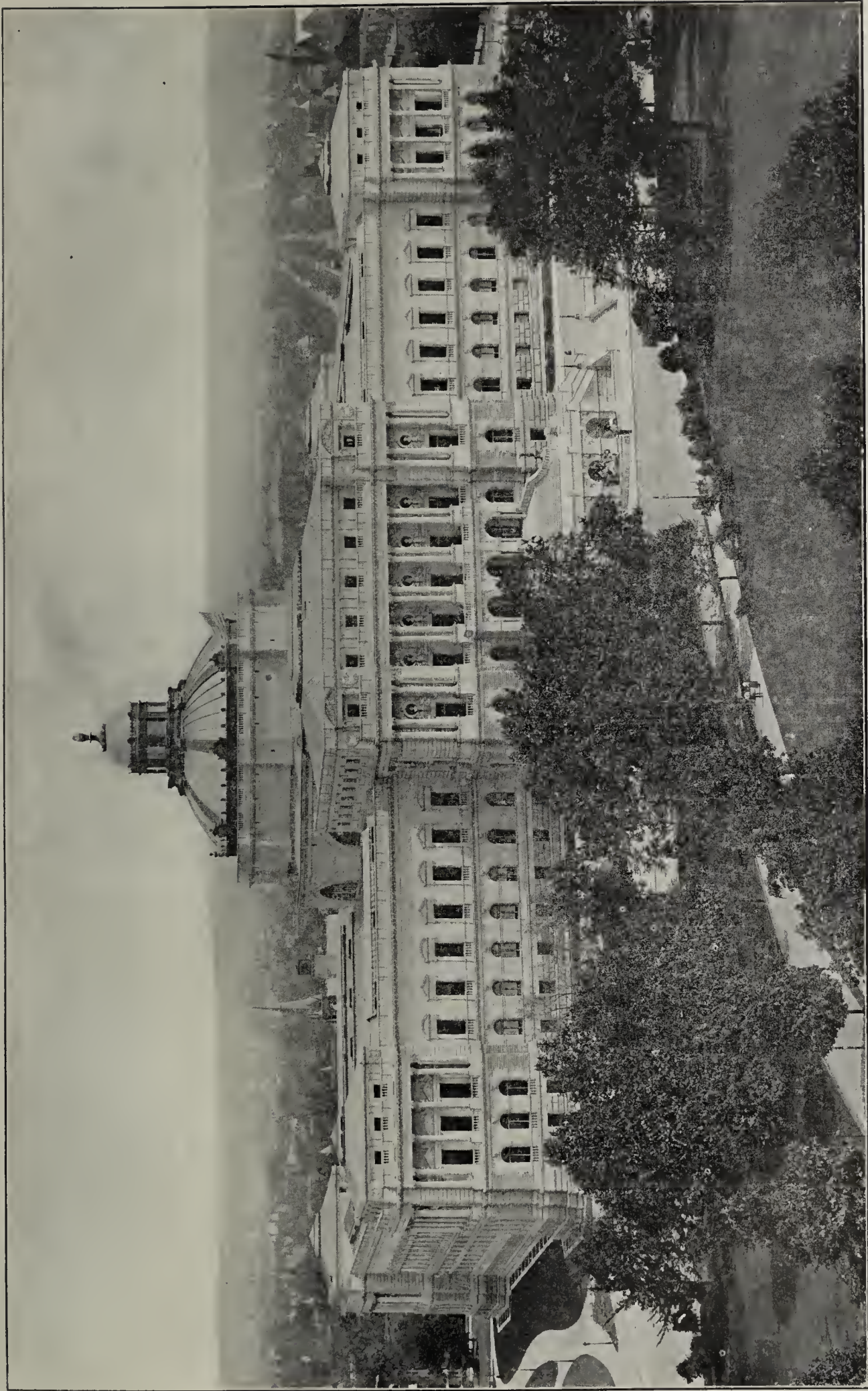
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Robar, F. J. & Co.

Ryle & McCormick Co.

Sweeney Bros. Granite Co.

*Wetmore & Morse Granite Co.

MORRISVILLE—Mould & Davis

NEWPORT—Kingston, George

NORTHFIELD—Brusa & Griffin

Burns, J. L.

*Cross Bros.

***ELLIS, E. B. GRANITE CO.** (See
 adv. index, end of book)

*Empire Granite & Quarry Co.

*Northfield Union Granite Co.

Phillips & Slack

RUTLAND—Clark, Jas. S.

Everson & Co.

Temple Bros. (Wholesale)

ST. JOHNSBURY—Laird, H. M.

Roy, Tancrede F.

Union Granite Co.

Walker, J. E.

SOUTH ROYALTON—Soper, W. V.

SOUTH RYEGATE—Anderson, A.

Cragie, James

Diason & Roben

Farquharson, Robert

McDonald, Murdo F.

Morrison, D. A., & Co.

Rabaloli, Joseph

SWANTON—Judd, Walter S.

WATERBURY—Blondin Granite Co.

Drew, Daniels Granite Co.

O'Clair & Anair

WEBSTERVILLE—*Doucett-Roleau Co.

*Libersont, George

WEST BERLIN—Davis Bros.

Provost, Stanley

WEST DANVILLE—Goss & Conly

WEST DUMMERSTON—*Bailey, D. J.
 *Lyons, G. E., Granite Co.
 WILLIAMSTOWN—Gearson-Becket Co.
 Hopkins, J. S., & Co.
 WINDSOR—*Norcross Bros. Co. (Grey, Red &
 Kendall, Frank H. Green)
 *Windsor Green Granite Co.
 WOODBURY—Brown & Reycroft

VIRGINIA.

GRANITE—*McGranighan, Patrick
 *McIntosh, John
 PETERSBURG—Burns & Campbell
 *Petersburg Granite Co.
 RICHMOND—*Island Granite Co., Mayo
 *James River Granite Co. Island
 *Sunnyside Granite Co.
 *Wray, Andrew J., 328 S Cherry

WISCONSIN.

ABLEMAN—*Wisconsin Granite Co.
 AMBERG—*Pike River Granite Co.
 GRANITE HEIGHTS—Anderson Bros. & John-
 son (Warsaw Red)
 LA CROSSE—Hynne-Benrud Granite Co.
 MILWAUKEE—American Granite Co. (Wis-
 consin Mahogany)
 Northside Granite & Marble Works, 1026
 Walnut
 Shaver, Jos. Granite & Marble Co., 506 7th
 Sutter, H., Granite & Marble Co., 562
 PLYMOUTH—Kegler, G. F., Muskego av
 UTLEY—*Wisconsin Granite Co.
 WAUSAU—Marathon Granite Co.

Granite Sawing Machines

(See Machines, Stone Sawing)

Granite (Seam Face)

Hingham Seam Face Granite Co., 161 Summer,
 Boston, Mass.
 Holmesburg Granite Co., Fidelity bldg, Phila-
 delphia, Pa.
 PENNA MARBLE & GRANITE CO.,
 Penna bldg, Phila., Pa. (See adv. index,
 end of book)

Graphophone Mfrs.

(See Talking Machines)

*Graphite Boxes & Covers

DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's," for Baking Carbons, etc.), Jersey
 City, N. J. (See adv. index & branch offices,
 end of book)

*Graphite (Commutator)

DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch offices,
 end of book)

Graphite Miners & Refiners

Allen Graphite Co., Quenelda, Ala.
 Asbury Graphite Mills (H. M. Riddle, Prop.),
 Asbury, N. J.
 Continental Graphite Co., Land Title bldg,
 Phila., Pa.
 Detroit Graphite Co., Detroit, Mich.
 DIXON, JOS. CRUCIBLE CO., Jersey
 City, N. J. (See adv. index & branch offices,
 end of book)
 HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)
 Hoffman, F. G. (Dry Graphite), Beta, N. C.
 Holmes Filac Graphite Mfg. Co., 5155 Wake-
 field, Gtn., Phila., Pa.
 International Acheson Graphite Co. (Mfrs. in
 the Electric Furnace), Niagara Falls, N. Y.
 Michigan Paint Co., Flint, Mich.
 Pettinos Bros., Bethlehem, Pa.
 Standard Graphite Co., 11 B'way, New York
 Sterling Graphite Co., 136 S 4th, Phila., Pa.
 United States Graphite Co., Saginaw, Mich.
 Mines in Conora, Mexico
 Wisconsin Graphite Co., Stevens Point, Wis.

*Graphite (Oiled)

DIXON, JOS. CRUCIBLE CO. ("Dix-
 on's"), Jersey City, N. J. (See adv. index
 & branch offices, end of book)

Grapples (Beam)

Bethlehem Foundry & Machine Co., Front,
 South Bethlehem, Pa.

*Grapples (Stone Hoisting)

FARRINGTON, H., 45 B'way, New
 York. (See adv. index, end of book)

Grapples (Timber)

Evart Tool Co. (Ltd.), Evart, Mich.

Grate Bar Mfrs.

Altoona Foundry & Machine Co., Altoona, Pa.
 bldg, Chicago, Ill. (See adv. index &
 American Brake Shoe & Foundry Co., Mahwah,
 N. J.)

Arnold-Creager Co., New London, O.
 Barker, Jas. ("Barker"), 6th & Tioga, Phila.
 Pa.

BEGGS, JAS., & CO. ("McClave" Shaking
 Grate Bars), 109 Liberty, New York. (See
 adv. index, end of book)

Bethlehem Foundry & Machine Co., Front,
 South Bethlehem, Pa.

Birmingham Boiler Works, Birmingham, Ala.

Borger Bros. Co., Columbus, O.

Bowler Foundry Co. ("Kerstine"), Cleveland,
 Ohio

Brown Bros. ("Gadey"), W 22d & Campbell
 av, Chicago, Ill.

Bruce-Macbeth Engine Co. ("Aetna"), Clevel-
 and, O.

Bushnell, Jno. S. & Co., 227 Fulton, New York

Butman Engineering Co., Monadnock blk, Chi-
 cago, Ill.

CANTON FOUNDRY & MACHINE CO.
 (Dumping & Shaking), Canton, O. (See
 adv. index, end of book)

Casey-Hedges Co. (Hollow Blast Shaking,
 etc.), Chattanooga, Tenn.

Catawissa Car & Casting Co. (Sectional),
 Catawissa, Pa.

Continental Grate Co. (Shaking), 85 Devonshire,
 Boston, Mass.

Co-operative Foundry Co., Detroit, Mich.

Crowder Bros., 408 Olive, St. Louis, Mo.

Crowe, Paul L. (Pressed Steel), 47 Montgom-
 ery, Jersey City, N. J.

Cyclone Grate Bar Co., Buffalo, N. Y.

Daugherty Foundry Co. ("Tupper," "Adams"
 & Circle Grate for Vertical Boilers), Allen-
 town, Pa.

DOBBIE FOUNDRY & MACHINE CO.
 Main Office & Works, Niagara Falls, N. Y.
 (See adv. index & branch offices, end of book)

DONEGAN & SWIFT (All Kinds), G
 Murray, New York. (See adv. index, end
 of book)

Dorrance, Chas. A., Western Union bldg, Chi-
 cago, Ill.

Downey & Kruse Co., 112 N 2d, Milwaukee,
 Wis.

Eastwood Wire Mfg. Co., Belleville, N. J.

Economic Engineering & Construction Co.
 ("Sharps"), Monadnock blk, Chicago, Ill.

Erie City Iron Works, Erie, Pa.

Erie Engine Works (Shaking, Dumping & Sta-
 tionary), Erie, Pa.

Estabrook's, R. Sons, 204 W 1st, Boston, Mass.

Eureka Heating & Ventilating Co. (C. W.
 Light, Prop.) (Rocking), Saginaw, Mich.

Evans, Thos. (Patent), Providence, R. I.

Farris, Jos., Springfield, Ill.

Ferguson, F. & Son, 1122 Clinton, Hoboken,
 N. J.

Foster, F. W. Mfg. Co. (Shaking & Packing,
 99 Haverhill, Boston, Mass.

Fox's, Benj. Sons, 513 W 34th, New York

Frick, Horace E. Co. ("Frick's") Wire Sec-
 tional Tupper or Herringbone), 286 Green-
 wich, New York

Frost Mfg. Co. (Rocking, etc.), Galesburg, Ill.

G. & W. MFG. CO., 26 Cortlandt,
 New York. (See adv. index, end of book)

Gehl Bros. Mfg. Co., West Bend, Wis.

Gibson Iron Works Co. (Common Sense, Dump-
 ing, etc.), 170 1st, Jersey City, N. J.

Gordon Hollow Blast Grate Co., Greenville,
 Ga.

Granger & Co., Louisville, Ky.

Green Engineering Co., Commercial Nat'l B'k
 bldg, Chicago, Ill.

Gulickson, Geo., 70 Milwaukee av, Chicago,
 Ill.

Hanchett Hot Blast Grate Co. ("Hanchett"
 Hot Blast), Big Rapids, Mich.

Hayes, Jno. A. Foundry Co., Lynn, Mass.

Helmick Foundry & Machine Co. (Furnace),
 Fairmont, W. Va.

Heatherington & Berner, Indianapolis, Ind.

Herrick, Geo. S., Syracuse, N. Y.

Huntsville Foundry & Machine Works (Nolan
 & Jones, Props.), Huntsville, Ala.

Iron City Grate Bar Co., Warren, O.

Janney & Co., Montgomery, Ala.

Jarvis Engineering Co. (Sheffield), 61 Oliver,
 Boston, Mass.

Kahl, Frederick, 537 Atwater, Detroit, Mich.

Kelly Foundry & Machine Co., Gosnen, Ind.
 KEWANEE BOILER CO., Kewanee, Ill.,
 & 35 Michigan av, Chicago, Ill. (See adv.
 index, end of book)

KUTZTOWN FOUNDRY & MACHINE
 Co., 116 N Broad, Philadelphia, Pa. (See
 adv. index & branch offices, end of book)

Lippincott Steam Specialty & Supply Co.
 ("Lippincott" Shaking), Newark, N. J.

Litchfield Foundry & Machine Co., Litchfield,
 Love Bros. (Inc.), Aurora, Ill.

McClave-Brooks Co. (Shaking), Scranton, Pa.

McClave Grate Bar Co. ("Eills" Improved
 Sectional McClave Shaking & Dumping
 Cut Off), 109 Liberty, New York

McKenzie Furnace Co., 84 Van Buren, Chi-
 cago, Ill.

McNaughton Foundry (Sectional), Charlotte,
 Mich.

MACKINNON BOILER & MACHINE
 Co. ("Peerless"), Bay City, Mich. (See
 adv. index, end of book)

Madison Foundry Co., Cleveland, O.

Martin Grate Co. ("Martin," Anti-Friction
 Rocking), Fisher bldg., Chicago, Ill.

Mather, E. Harrisburg, Pa.

Mechanics' Iron Foundry Co. ("Bannister"),
 38 Kemble, Boston, Mass.

Mershon Patent Shaking Grate Works, 1203
 Filbert, Philadelphia, Pa.

Metropolitan Iron Foundry ("Dempsey's,"
 "Phenix"), 548 W 55th, New York

Miller Oil & Supply Co. ("Perfection" Hol-
 low Blast), Indianapolis, Ind.

Mosher Mfg. Co., Dallas, Tex.

Munroe, R. & Sons Corp., Pittsburg, Pa.

Murray Iron Works Co. (Plain & Rocking),
 Burlington, Iowa

Myrick Machine Co., Olean, N. Y.

National Water Tube Boiler Co., New Bruns-
 wick, N. J.

Neemes Bros. (Self Cleaning), Troy, N. Y.

Niver Iron Works Co., Muscatine, Ia.

OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)

Patch, S. B. & Sons Co. ("Patch" Rocking),
 Streator, Ill.

Peacock's Iron Works, Seima, Ala.

Perfection Grate Co., Springfield, Mass.

Pinkerton, Robert (Gasoline Shaking), Green
 Island, N. Y.

PITTSBURGH VALVE, FOUNDRY & CON-
 struction Co., 26th & A. V. Ry., Pitts-
 burgh, Pa. (See adv. index, end of book)

Portland Co., Portland, Me.

Price-Evans Foundry Co., Chattanooga, Tenn.

Reagan Grate Bar Co., 209 N Front, Phila-
 delphia, Pa.

Robertson, Jas. L. & Son (Inc.) ("Common
 Sense"), 48 Warren, New York

Robsmith Specialty Co., Provident bldg, Phila-
 delphia, Pa.

Robson, Chas., 8th & Washington av, Phila.,
 Pa.

Rosedale Foundry & Machine Co. ("Playford,"
 "Pittsburg"), Pittsburg, Pa.

Rutzler, E. Co., 127 White, New York

Salamander Grate Bar Co. ("Salamander,"
 "Aetna," "Steele," "Ryder" & "Rogers"),
 128 Liberty, New York

Scranton Steam Pump Co. ("Scranton" Shak-
 ing, etc.), Scranton, Pa.

Smith Iron Foundry, Lynn, Mass.

Southern Engine & Boiler Works (Inc.), Jack-
 son, Tenn.

Stiles Foundry & Supply Co. Parkersburg,
 Strothman Iron Co., Superior, Wis.

Stowell Mfg. & Foundry Co. ("Hail's" Patent),
 S. Milwaukee, Wis.

Thacher, Geo. H. & Co. ("Coe" Sectional,
 Dumping also Stationary), Albany, N. Y.

Thompson, Richard & Co. ("Aetna" Shaking,
 "Thompson's" Dumping, "Thompson's"
 Sectional & Steel's Revolving, Shaking &
 Dumping Grates), 126 Liberty, New York

Toledo Foundry & Machine Co., Toledo, O.

Townsend Furnace & Machine Shop Co., Al-
 bany, N. Y.

Treadwell, M. H. Co. ("Treadkill" Shaking,
 etc.), 90 West, New York; Works: Le-
 banon, Pa.

Tupper, W. W. & Co. (Shaking Grates & Grate
 Bars), 90 West, New York

Valley Iron Works ("Ajax," "Rocking," "Tup-
 per," Circular), Williamsport, Pa.

Variety Iron & Steel Works Co., Cleveland, O.

Vulcan Steam Shovel Co., Toledo, O.

Ward & Upright Engineering Co., 41 York,
 Brooklyn, N. Y.

**When writing to firms listed
 in this book please mention
 HENDRICKS'
 COMMERCIAL REGISTER**

Water Arch Furnace Co., 164 Dearborn, Chicago, Ill.
 Waterbury Foundry Co., Waterbury, Conn.
 Western Foundry & Sash Weight Co., 159 Miller, St. Louis, Mo.
 White, J. L. Furnace Co. (Hollow Blast Rocking), Milwaukee, Wis.
 Wickes Bros., Saginaw, Mich.
 Willoughby, Alfred B. ("Willoughby-St. John" Shaking), Bourse bldg. Phila., Pa.
 Worthington National Grate Co., Calvert bldg. Baltimore, Md.

*Grate Settings

MAURER, HENRY & SON ("Liverpool"), 420 E 23d, New York, & Penna bldg. Phila., Pa. Works: Maurer, N. J. (See adv. Front Inside Cover)

Graters (Apple)

(See Apple Grating Machines)

Graters (Horse Radish)

Ames Plow Co., Boston, Mass.
 Day, J. H. & Co., Cincinnati, O.
 Enterprise Mfg. Co., Phila., Pa.
 Houchin, Thos. W. Co., 341 B'way, New York
 Kelso & Co., 209 S Clinton, Chicago, Ill.
 Schroeter Bros. Hardware Co. ("Schroeter's" Power), 717 Wabash av. St. Louis, Mo.
 Smith's, Jno. E. Sons Co., Buffalo, N. Y.

Graters (Nutmeg)

Caldwell Mfg. Co. ("Gem"), Rochester, N. Y.
 Franklin Specialty Co., Reading, Pa.
 Hamblin & Russell Mfg. Co. ("Unique," "Yankee," "New Rapid"), Worcester, Mass.

Grates (Cellar)

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
CANTON MFG. CO., Canton, O. (See adv. index, end of book)
 Comstock, Geo. S., Mechanicsburg, Pa.
 Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
 Hickok, W. O. Mfg. Co., Harrisburg, Pa.
VAN DORN IRON WORKS CO., 2685 N 79th, Cleveland, O. (See adv. index, end of book)

*Grates (Clinker Crushing)

DONEGAN & SWIFT ("Swift's Imperial"), 6 Murray, New York. (See adv. index, end of book)

Grates (Dumping)

(See Grates, Shaking & Dumping)

*Grates, Fenders & Mantels

(See also Fireplace Furnishings)

JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York, & 163 Michigan av., Chicago, Ill.

Grates (Gas, Parlor)

American Stove Co. ("Reliable"), St. Louis, Mo.
 Perfect Gas Stove Mfg. Co., Huntingdon, W. Va.
 Rathbone & Panigot Co., Grand Rapids, Mich.
 Superior Mfg. Co., Pittsburg, Pa.

Grates (Hollow Blast)

(See Grate Bar Manufacturers)

Grates (Rocking)

(See Grate Bar Manufacturers with word "Rocking" following names)

Grates (Shaking & Dumping)

(See also Grate Bar Manufacturers)

Baker, Wm. H. ("National" Shaking), Trenton, N. J.
 Brnce-Macheth Engine Co. ("Aetna"), Cleveland, O.
 Casey-Hedges Co., Chattanooga, Tenn.
 Continental Grate Co., 85 Devonshire, Boston, Mass.
 Crow, Paul L., 47 Montgomery, Jersey City, N. J.
DOBBIE FOUNDRY & MACHINE CO. ("Niagara," Shaking), Main Office & Works: Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
DONEGAN & SWIFT ("Swift's Economy"), 6 Murray, New York. (See adv. index, end of book)
 Economic Engineering & Construction Co. ("Sharp"), Monadnock blk, Chicago, Ill.
 Erie Engine Works (and Stationary), Erie, Pa.
 Foster, F. W. Mfg. Co., 99 Haverhill, Boston, Mass.
 Frick, Horace E. Co. ("Frick" Shaking & Dumping Grate Surface, etc.), 286 Greenwich, New York
 Gibson Iron Works Co. ("Common Sense" Dumping), Jersey City, N. J.
 Kelly Foundry & Machinery Co., Goshen, Ind.
KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan av., Chicago, Ill. (See adv. index, end of book)
KUTZTOWN FOUNDRY & MACHINE CO., 116 N Broad, Philadelphia, Pa. (See adv. index & branch offices, end of book)
 Lippincott Steam Specialty & Supply Co. ("Lippincott" Shaking), Newark, N. J.
 McClave-Brooks Co. (& Cut-Off), Scranton, Pa.
 Martin Grate Co. ("Martin" Anti-Friction Rocking), Fisher bldg, Chicago, Ill.
 Mershon Patent Shaking Grate Works, 1203 E Filbert, Phila., Pa.
 Metropolitan Iron Foundry Co. ("Phenix"), 548 W 55th, New York
 Myrick Machine Co., Olean, N. Y.
 Neemes Bros., Troy, N. Y.
 New England Roller Grate Co., Springfield, Mass.

Perfection Grate Co., Springfield, Mass.
 Portland Co. ("Hamlin" Rocking & Dumping), Portland, Me.
 Reagan Grate Bar Co., 209 N Front, Phila., Pa.
 Rider, Wm. E. & Co. ("Mansfield" Rail Bearing), Mansfield, Mass.
 St. John Patent Shaking Bar Co. ("St. John"), Bourse bldg, Phila., Pa.
 Salamander Grate Bar Co. ("Aetna"), 126 Liberty, New York
 Scranton Steam Pump Co. ("Scranton"), Scranton, Pa.
 Strothman Iron Co., Superior, Wis.
 Thacher, Geo. H. & Co. ("Coe" Sectional Shaking & Dumping Cut-Off), Albany, N. Y.
 Thompson, Richard & Co. ("Aetna"), 126 Liberty, New York
 Treadwell, M. H. Co. ("Treadwell"), 90 West, New York; Works, Lebanon, Pa.
 Valley Iron Works ("Ajax" Shaking), Williamsport, Pa.
 Willoughby, Alfred B. ("Willoughby-St. John" Shaking), Bourse bldg, Phila., Pa.

Grates (Traveling Link)

Babcock & Wilcox Co., 85 Liberty, New York.
 Crowe, Paul L., 47 Montgomery, Jersey City, N. J.
 Erie Foundry Co., Erie, Pa.
 Green Engineering Co., Commercial Nat'l B'k bldg, Chicago, Ill.
 Weir & Craig Mfg. Co. ("Chicago"), 2439 Wallace, Chicago, Ill.

*Grates (Ventilating)

JACKSON, EDWIN A. & BRO., 50 Beekman, New York

Grease (Axle)

Brooks Oil Co., Cleveland, O.
 Bulls Head Oil Works ("Bulls Head"), San Francisco, Cal

Canton Lubricator Mfg. Co. ("Century"), Canton, O.
DIXON, JOS. CRUCIBLE CO. ("Dixon's" Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)
 Fiske Bros. Refining Co., 13 Old Slip, New York
 Frazer Lubricator Co., 83 Murray, New York
 Freedom Oil Works Co., Freedom, Pa.
 Galeua Axle Grease Co., Galena, Ill.
 Globe Oil Co., Rose bldg, Cleveland, O.
 Great Western Oil Co. ("Great Western"), 2855 E 37th, S E, Cleveland, O.
 Hisgen Bros. (Inc.) ("Four Bros."), Albany, N. Y.
 Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
 Hughes Anti-Friction Co., 196 State, Boston, Mass.
 Hslyay, Doubleday & Co., 229 Front, New York
INDIAN REFINING CO. ("Blue Grass," Dark or Light), Cincinnati, O. (See adv. index, end of book)
 Johnson, F. C., Stillman Valley, Ill.
 Monitor Oil Co., Cleveland, O.
 Smith & Nichols, 48 South, New York
 Suow Flake Axle Grease Co. (also Coach Oil), Fitchburg, Mass.
 Sonneborn's, L., Sons (Inc.) ("Amalla"), 262 Pearl, New York
 Standard Oil Co. of New York, 555 W 25th, New York
 Stuart, D. A. & Co. (Inc.), 447 Illinois, Chicago, Ill.
 Swan & Finch Co., 151 Malden la, New York
 Warren Specialty Co., Warren, Pa.
 Winn, Wm. R. ("Winn" also Axle Oil), 143 Malden lane, New York, & Springfield, Mass.
 World Refining Co., Easton, Pa.
 Zurn, O. F. Co. ("Zurn's"), Broad & Lehigh, Phila., Pa.

Grease (Cable & Elevator Shaft)

Canton Lubricator Mfg. Co., Canton, O.
 Climax Refining Co. ("Cable Compound"), Williamson bldg, Cleveland, O.

Grease Cups

(See Lubricators, Oil & Grease Cup)

Grease Extractors

(See Oil & Grease Extractors)

Grease (Graphite)

DIXON, JOS. CRUCIBLE CO. ("Dixon's" for Open Bearings on Spindles, Shafting, etc.), Jersey City, N. J. (See adv. index & branch offices, end of book)
 Harris, A. W. Oil Co. ("Harris"), Providence, R. I.
 Sonneborn's, L. Sons (Inc.), 262 Pearl, New York

*Grease Guns

DELTA MFG. CO., Bloomfield, N. J.
 Rubly Mfg. Co. ("Tuckahoe"), Tuckahoe, N. Y.

Grease (Wire Drawing)

Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
 Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York

Green House Builders

BICKELHAUPT, GEO. SKYLIGHT Works, 243 W 47th, New York. (See adv. index, end of book)

Dillon, J. L., Bloomsburg, Pa.
 Hinchings & Co., 1170 B'way, New York
 Hinchings & Co., 1170 B'way, New York.
 Jacobs, S. & Sons, 1365 Flushing av., Brooklyn, N. Y.
 Johnson, Geo. H., Arlington, Mass.
 Lord & Burnham Co., 1133 B'way, New York
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
 National Skylight & Construction Co., Culver av., Jersey City, N. J.

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STYLES

Swift's Imperial Clinker Crushing Grates and Economy Narrow Pattern and Wide Pattern Dumping Grates. Swift's Combined Stationary and Dumping Grates. All Styles of Circular Plain and Shaking Grates. Write for Catalog.

Donegan & Swift, 6 MURRAY STREET, N. Y.

National Ventilating Co., 1 Madison av, New York
 Payne, John A., 260 Culver av, Jersey City, N. J.
 Pierson U Bar Co., 1 Madison av, New York
 Rendle, Arthur E., 18 W 34th, New York
SCHREIBER, L. & SONS CO. 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
 Scollay, John A. (Est. of), 74 Myrtle av, Brooklyn, N. Y.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Thomson, Robert & Co., St. Louis Mo.
 Weathered Co., Orient & West End avs, Jersey City, N. J.

Green House Materials

(See also Sash, Greenhouse & Hot Bed)

Hitchings & Co., 1170 B'way, New York
 Jacobs, S. & Sons, 1365 Flushing av, Brooklyn, N. Y.
 Lord & Burnham Co., 1133 B'way, New York
 Metropolitan Material Co., 1398 Metropolitan av, Brooklyn, N. Y.
 Pierson U Bar Co., 1 Madison av, New York
 Selden Cypress Door Co., Palatka, Fla.
 Stearns, A. T., Lumber Co., Neponset, & 168 Devonshire, Boston, Mass.
 Struck, Alfred Co., Louisville, Ky.

Green House Tables, Etc. (Slate)

(See Slate Stair Treads & Risers)

Green House Ventilating Appliance

(See Ventilating Apparatus for Greenhouse & Buildings)

Griddles

Adams Co. (Cake), Dubuque, Ia.
 American Electrical Heater Co. (Electric Cake), 123 State, Detroit, Mich.
 Avery Stamping Co. (Steel), 5207 Lakeside av, N. E., Cleveland, O.
GENERAL ELECTRIC CO. (Electric Cake), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Lalance & Grosjean Mfg. Co. (Cake), 299 B'way, New York
 National Enameling & Stamping Co. (Cake), 374 B'way, New York
 New York Stamping Co. (Stamped), 11th & Berry, Brooklyn, N. Y.
 Pike Mfg. Co. (Soapstone), Pike Station, N. H.
 Sloan Mfg. Co. (Cake, etc.), Kansas City, Mo.
 Smith & Hemenway Co. (Cake), 108 Duane, New York
 Stewart & Peterson Co. (Cake), Burlington, N. J.
 Sturges & Burn Mfg. Co. (Steel), 249 S Green, Chicago, Ill.

Grille, Fret & Lattice Work

(See also Grille & Fret Work, for the Trade Only)

American Parquetry Floor Co., 1124 Walnut, Phila., Pa.
ARCHITECTURAL DECORATING CO., Chicago, Ill. (See adv. index, end of book)
 Bertelsen Adjustable Grille Co., 306 S Clinton, Chicago, Ill.
 Bossert, Louis & Son, Grand st & Newtown Creek, Brooklyn, N. Y.
 Boynton & Co., 421 W 15th, Chicago, Ill.
 Buffalo Grille Co., 270 Court, Buffalo, N. Y.
 Bush & Mallett Co., 618 Mission, San Francisco, Cal.
 Chicago Mill Work & Supply Co., 22d & Sangamon, Chicago, Ill.
 Cleveland Hardwood Floor Co., 39 Taylor Arcade, Cleveland, O.
 Cutting Furniture Co., 640 Clinton, Buffalo, N. Y.
 Davis, E. J. Mfg. Co., 9 Jackson boul, Chicago, Ill.
DECORATORS' SUPPLY CO., Archer av, c Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
 Dupree, Jno. & Co., 329 Taylor, Grand Rapids, Mich.
 Frey, J. W., 539 S B'way, Los Angeles, Cal.
 Grand Rapids Carved Moulding Co., Grand Rapids, Mich.
 Heaton & Wood, 1706 Chestnut, Phila., Pa.

Herr, Jno. Floor Co., 2110 Olive, St. Louis, Mo.
 Hyde-Murphy Co., Ridgeway, Pa.
 Kalamazoo Grille Co., Kalamazoo, Mich.
 Keddy Grille Co., Detroit, Mich.
 Lidell, Wm. C., 597 Austin av, Chicago, Ill.
 Lorenzen, Chas. F. & Co., 278 N Ashland av, Chicago, Ill.
 McIntosh, Alex., 21 E 20th, New York
 Nelson, Chas., 755 W Lake, Chicago, Ill.
 New York Carved Moulding Co., Rider av & 139th, New York
 Northwestern Grille Works, Milwaukee, Wis.
 Nybet Cabinet Co., 27th & Halsted, Chicago, Ill.
 Ocker & Ford Mfg. Co., Grand Rapids, Mich.
 Pasadena Mfg. Co., Pasadena, Cal.
 Roach & Musser Sash & Door Co. (Wholesale & Retail), Muscatine, Ia.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Syracuse Screen & Grille Co., North Manchester, Ind.
 Terwilliger Mfg. Co., 11 W 30th, New York, & 302 Fulton, Brooklyn, N. Y.
 Waddell Mfg. Co., Grand Rapids, Mich.

Grille or Fret Work (for the Trade Only)

Biggs, B. F. Pump Co., Lafayette, Ind.
 Cleveland Grille & Mfg. Co. (Adjustable Grilles), Cleveland, O.
 Cream City Sash & Door Co. (For the Trade Only), Milwaukee, Wis.
 Curtis Bros. & Co., Clinton, Ia.
 Curtis & Bartlett Co., Lincoln, Neb.
 Curtis & Yale Co., Wausau, Wis.
 Dishrow, M. A. & Co., Lyons, Ia.
 Foster-Munger Co., W 20th & S Sangamon, Chicago, Ill.
 Galli, Albert, Indianapolis, Ind.
 Gauger, John A. & Co., W 22d & Laflin, Chicago, Ill.
 Gould Mfg. Co., Oshkosh, Wis.
 Harris & Cole Bros., Cedar Falls, Ia.
 McMillen, R. Co., Oshkosh, Wis.
 Morgan Co., Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
 Paine Lumber Co., Oshkosh, Wis., & 1 Madison av, New York
 Peirce, W. E. & Co., Milford, N. H.
 Roberts, E. L. & Co., W 22d & Union, Chicago, Ill.
 Rock Island Sash & Door Works, Rock Island, Ill.

Grilles (Brass & Bronze)

(See also Bank & Office Railings)

Balderston, H. & Son, 319 Pearl, Baltimore, Md.
 Barnum, E. T., Wire & Iron Works, 82 Washington av, Detroit, Mich.
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
 Bradley & Hubbard Mfg. Co., Meriden, Conn.
 Brown Bros. Mfg. Co., 22d & Campbell av, Chicago, Ill.
 Buckley-Hart Mfg. Co., 527 Franklin, Detroit, Mich.
CABARET, PAUL E. & CO., 342 W 14th, New York. (See adv. index, end of book)
CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
COLUMBIA IRON & WIRE WORKS CO., Canton, O. (See adv. index, end of book)
COLUMBUS WIRE & IRON WORKS Co., Columbus, O. (See adv. index, end of book)
DARBY, EDWARD & SONS CO. (Brass), 239 Arch, Phila., Pa. (See adv. index, end of book)
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)
FLOUR CITY ORNAMENTAL IRON Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index, end of book)
 Gaumer, J. L. Co., 22d & Wood, Phila., Pa.
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
HALSTED, JOS. CO., 388 W Randolph, Chicago, Ill. (See adv. index, end of book)

HANKE IRON & WIRE WORKS, 1234 Filmore, Chicago, Ill. (See adv. index, end of book)
 Heath-Johnson Co. (Inc.), 123 Ontario, Chicago, Ill.
 Hecla Iron Works, 118 N 11th, B'klyn, N. Y.
 Henry-Bonnard Bronze Co., Mount Vernon, N. Y.
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)
 Janusch Mfg. Co., 496 E 134th, New York
 Manhattan Brass Co., 338 E 28th, New York
MEYERS, FRED. J. MFG. CO., Hamiltou, O. (See adv. index, end of book)
 Midland Metal Co. (Inc.), 21st & Jefferson, Phila., Pa.
 Mott, J. L. Iron Works, 118 5th av, New York
 National Mfg. Co., Worcester, Mass.
PITT, WM. R. COMPOSITE IRON Works, 136-138 W 24th, New York. (See adv. index, end of book)
 Richey, Browne & Donald, Maspeth, Borough of Queens, N. Y. City
SCHREIBER, L. & SONS CO. 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
SOMMERVILLE IRON & BRONZE Co., 5637-5649 Butler, Pittsburg, Pa. (See adv. index, end of book)
SNEAD & CO. IRON WORKS, Jersey City, N. J. (See adv. index, end of book)
STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)
 Syracuse Wire Works, Syracuse, N. Y.
TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa. (See adv. index, end of book)
 Tiffany Studios, 347 Madison av, New York
 Tuttle & Bailey Mfg. Co., 83 Beekman, New York
TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)
 Union Equipment & Bronze Co., 1901 Park av, Van Doorn Co., Quincy, Ill.
 Van Kannel Revolving Door Co., Home Office, 524 E 134th, New York
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
 Wells Architectural Iron Co., 219-221 E 144th, New York
 Williams, John, 556 27th, New York
WINSLOW BROS. COMPANY, Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Grilles (Iron)

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)

Grilles (Spring Hinges for)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
 Columbian Hardware Co., Coe & Hamilton, Cleveland, O.

*Grilles (Switchboard)

ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)

Grilles (Wrought Iron)

Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)

Bradley & Hubbard Mfg. Co., Meriden, Conn.
Brown Bros. Mfg. Co., 22d & Campbell av.,
Chicago, Ill.

CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)

CHICAGO ORNAMENTAL IRON CO.
37th & Stewart av., Chicago, Ill. (See adv.
index, end of book)

CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of book)

COLUMBIA IRON & WIRE WORKS CO.,
Canton, O. (See adv. index, end of book)

COLUMBUS WIRE & IRON WORKS
Co., Columbus, O. (See adv. index, end of
book)

Creswell, Sam'l J., Iron Works, 23d & Cherry,
Phila., Pa.

DARBY, EDWARD & SONS CO., 239
Arch, Phila., Pa. (See adv. index, end of
book)

ESTEY BROS. CO., Liberty & Greenwich,
New York. (See adv. index, end of book)

ESTEY WIRE WORKS CO., 59 Ful-
ton, New York. (See adv. index, end of
book)

FLOUR CITY ORNAMENTAL IRON
Works, 27th st & 28th av., Minneapolis,
Minn. (See adv. index, end of book)

FOREST CITY STEEL & IRON CO.,
110th st Detroit av., Cleveland, O. (See adv.
index, end of book)

Ganmer, J. L. Co., 22d & Wood, Phila., Pa.

HALSTED, JOSEPH CO., 388 W. Ran-
dolph, Chicago, Ill. (See adv. index, end of
book)

HANKE IRON & WIRE WORKS, 1234
Fillmore, Chicago, Ill. (See adv. index,
end of book)

Heath-Johnson Co. (Inc.), 123 Ontario, Chi-
cago, Ill.

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

HOWARD & MORSE, 45 Fulton, New
York. (See adv. facing first page of index
of Contents)

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York, & 163 Michigan
av., Chicago, Ill. (See adv. index, end of
book)

Koehn, Alfred, 157 W 29th, New York

Landon, E. R. Iron & Wire Works, 18 N
May, Chicago, Ill.

MERRITT & CO., Front & Arch,
Camden, N. J. (See adv. index, end of book)

MEYER, FRED. J., MFG. CO., Hamilton, O.
(See adv. index, end of book)

Mott, J. L. Iron Works, 118 5th av., New York

PHOENIX STEEL CO. (Inc.), Putnam
& P. R. R., Pittsburg, Pa. (See adv. in-
dex, end of book)

Pirkel, John, Iron Works (Inc.), 240 N 10th,
Brooklyn, N. Y.

PITT, WM. R. COMPOSITE IRON
Works, 136-138 W 24th, New York. (See adv.
index, end of book)

REMPPIE, WM. F. CO., Reading, Pa.,
& 1506 Sansom, Phila., Pa. (See adv. in-
dex, end of book)

Richey, Browne & Donald, Maspeth, Borough
of Queens, N. Y. City

RIESECK, P., Allegheny av & Re-
becca, Allegheny, Pa. (See adv. index, end
of book)

SCHREIBER, L. & SONS CO. 8th & Eg-
gleston av., Cincinnati, O. (See adv. index
& branch offices, end of book)

SMITH, F. P., WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)

Smith & Caffrey Co., Props. (Phoenix-Porter
Foundry), Syracuse, N. Y.

SNEAD & CO. IRON WORKS, Jersey
City, N. J. (See adv. index, end of book)

SOMMERVILLE IRON & BRONZE
Co., 5637-5649 Butler, Pittsburg, Pa. (See
adv. index, end of book)

STANDARD CO., Railway Exchange
bldg., Chicago, Ill. (See adv. index, end of
book)

TAYLOR & DEAN, Penn av & 25th, Pitts-
burg, Pa. (See adv. index, end of book)

Tiffany Studios, 347 Madison av., New York

TYLER, W. S. CO., Cleveland, O. &
11 B'way New York. (See adv. index &
branch offices, end of book)

Tuttle & Bailey Mfg. Co. (Also Cast Iron), 83
Beekman, New York

Union Equipment & Bronze Co., 1901 Park av.,
New York

UNION FOUNDRY WORKS, First Na-
tional Bank bldg., Chicago, Ill. (See adv.
index, end of book)

VAN DORN IRON WORKS CO., 2685 E
79th, Cleveland, O. (See adv. index, end
of book)

Van Kannel Revolving Door Co. 524 E 134th,
New York

Vilsack, Martin Co. (Ltd.), 3222 Penn av., Pitts-
burg, Pa.

VULCAN CO., Detroit, Mich. (See
adv. index, end of book)

Wayne Iron Works (Inc.), Arcade bldg., Phila.,
Pa.

Wells Architectural Iron Co., 219-221 E 144th,
New York

West Coast Wire & Iron Works, San Francisco,
Cal.

White Wire Works Co., Rochester, N. Y.

Williams, John, 556 W 27th, New York

WINSLOW BROS. COMPANY, Main
Office & Works, 2515 W Harrison, Chi-
cago, Ill. (See adv. index & branch offices,
end of book)

WISCONSIN IRON & WIRE WORKS,
109 E Water, Milwaukee, Wis. (See adv.
index, end of book)

WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices,
end of book)

Grinders (Band Saw)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

Lake Shore Engine Works, Marquette, Mich.

Wickes Bros., Saginaw, Mich.

Grinders (Bench)

Bridgeport Safety Emery Wheel Co., Bridge-
port, Conn.

Buffalo Emery Wheel Co., 14 Lock,
Buffalo, New York

Carroll-Jamieson Machine Tool Co. (Bench
Grinder & Polisher), Batavia, O.

Central Machine Works Co. (Double Grinder),
Minneapolis, Minn.

Challenge Machine Co., 5116 Springfield av.,
Philadelphia, Pa.

Clark, Jas., Jr., Electric Co., Louisville, Ky.

Clizbe Bros. Mfg. Co. ("Crown"), Plymouth,
Ind.

Cutter, Wood & Stevens Co., Boston, Mass.

Diamond Machine Co., Providence, R. I.

Faneuil Watch Tool Co. (Fast Speed Internal),
1 Brooks Br., Boston, Mass.

Norton Grinding Co., Worcester, Mass.

Rivett Lathe Mfg. Co. (Fast Speed Internal),
Brighton, Boston, Mass.

Safety Emery Wheel Co., Springfield, O.

Springfield Mfg. Co., Bridgeport, Conn.

Sterling Emery Wheel Mfg. Co., Tiffin, O.

Stow Mfg. Co. (Electric), Binghamton, N. Y.

SUPERIOR CORUNDUM WHEEL CO.,
Waltham, Mass. (See adv. index, end of
book)

Vitrified Wheel Co., Westfield, Mass.

Webster & Perks Tool Co. (Self-Oiling), Sprin-
field, O.

Grinders (Car Wheel)

Bridgeport Safety Emery Wheel Co. (Cup Only),
Bridgeport, Conn.

Quincy, Manchester, Sargent Co., Plainfield,
Springfield Mfg. Co., Bridgeport, Conn.

N. J.

Grinders (Center)

Clark, Jas., Jr., Electric Co. (Electrically
Driven), 313 W Main, Louisville, Ky.

Diamond Machine Co. ("Simplex"), Provi-
dence, R. I.

Gem Mfg. Co. ("Gem" Flexible Shaft), Pitts-
burg, Pa.

Stow Mfg. Co. (Flexible Shaft), Binghamton,
N. Y.

Grinders (Cock)

Automatic Valve Grinding Machine Co. (Auto-
matic), Knoxville, Tenn.

Milwaukee Cock Grinder Co. ("Milwaukee"),
Layton Park, Milwaukee, Wis.

Pratt & Whitney Co., Hartford, Conn.

Furner Machine Co. (Automatic), 2049 N 2d,
Phila., Pa.

Warner & Swasey Co., Cleveland, O.

Grinders (Crank)

Landis Machine Co. (Cylindrical), Waynes-
boro, Pa.

Grinders (Cup, Cone & Hub)

Bridgeport Safety Emery Wheel Co. (Cup Only),
Bridgeport, Conn.

Norton Emery Wheel Co., Worcester, Mass.

Pratt & Whitney Co., Hartford, Conn.

Springfield Mfg. Co., Bridgeport, Conn.

Grinders (Cutter)

(See Grinders, Reamer & Cutter)

*Grinders (Cylinder)

PRENTISS TOOL & SUPPLY CO., 115 Lib-
erty, New York. (See adv. index & branch
offices, end of book)

Grinders (Disc)

Besly, Chas. H. & Co. ("Besly" Double Disc),
15 S Clinton, Chicago, Ill.

BROWN, A. & F. CO., 25 Dey, New
York; Works: Elizabethport, N. J. (See
adv. index, end of book)

Challenge Machine Co., 5116 Springfield av.,
Philadelphia, Pa.

Clizbe Bros. Mfg. Co., Plymouth, Ind.

Diamond Machine Co. ("Gorton" Universal),
Providence, R. I.

Dodge Mfg. Co., Mishawaka, Ind.

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)

Gardner Machine Co. ("F. N. Gardner's Im-
proved"), Beloit, Wis.

Heald Machine Co., Worcester, Mass.

Haystradt & Case, Kingston, N. Y.

Iroquois Machine Co., Providence, R. I.

O. K. Tool Holder Co., Shelton, Conn.

Ransom Mfg. Co., Oshkosh, Wis.

Taylor & Fenn Co., 54 Arch, Hartford, Conn.

Walker Mfg. Co. ("Novelty"), Council Bluffs,
Ia.

Western Implement Co., Port Washington, Wis.

Grinders (Drill)

Challenge Machine Co., 5116 Springfield av.,
Philadelphia, Pa.

Diamond Machine Co. ("American"), Provi-
dence, R. I.

Dwight Slate Machine Co., Hartford, Conn.

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)

Garvin Machine Co., 137 Varick, N. Y.

Gorton, Geo. Machine Co., Racine, Wis.

Heald Machine Co. ("American" Twist Drill),
Worcester, Mass.

Ideal Machine Works (Ideal Twist Drill), 257
39th, Brooklyn, N. Y.

Johnson, Israel H., Jr., Co., Phila., Pa.

Manning, Maxwell & Moore ("Dahl"), 85 Lib-
erty, New York

MORSE TWIST DRILL & MACHINE
Co. (Twist Drill), New Bedford, Mass. (See
adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Phil. G Company, 363 Rider av., New York

Pratt & Whitney Co., Hartford, Conn.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Philadelphia, Pa.

Sterling Emery Wheel Mfg. Co., Tiffin, O.

SUPERIOR CORUNDUM WHEEL CO.,
Waltham, Mass. (See adv. index, end of
book)

Vitrified Wheel Co., Westfield, Mass.

Wilmarth & Morman Co. (New Yankee), Grand
Rapids, Mich.

Grinders (Edging)

(See also Mills, Bark)

Bartlett, A. F. & Co., Saginaw, Mich.

Bridgeport Safety Emery Wheel Co., Bridge-
port, Conn.

Diamond Machine Co., Providence, R. I.

Mills & Merrill, Saginaw, Mich.

Safety Emery Wheel Co., Springfield, O.

Shaw, Noah & Co., Eau Claire, Wis.

Union Iron Works, Bangor, Me.

Wickes Bros. (Also Slab & Lap), Saginaw,
Mich.

Grinders (Electric, Portable)

(See Grinders, Portable with Word "Elec-
tric" Following the Name)

Grinders (Emery)

Barnes, B. F. Co. (Tool), Rockford, Ill.

Bath Grinder Co. ("Universal"), Fitchburg,
Mass.

Blake & Johnson Co. ("Waterbury"), Water-
bury, Conn.

Buffalo Specialty Co. ("Success"), 375 Ellicott,
Buffalo, N. Y.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

Challenge Machine Co., 5116 Springfield av., Philadelphia, Pa.
Chicago Wheel Mfg. Co. ("Vulcan"), 336 W Monroe, Chicago, Ill.
Cordeman Machine Co., Cincinnati, O.
Cordeman, Meyer & Co., Cincinnati, O.
Cowdrey, C. H. Machine Works, Fitchburg, Mass.

Diamond Machine Co., Providence, R. I.
Electric Diamond Machine Co. ("Giant"), 123 Liberty, New York
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Frank Mach'y Co., 50 Mechanic, Buffalo, N. Y.
FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)
Gem Mfg. Co. ("Gem," Portable, Flexible Shaft), Pittsburg, Pa.
Gillie Engine & Machine Co. ("Tonawanda" Double), Tonawanda, N. Y.
Gisholt Machine Co. (Double Emery), Madison, Wis.

Glascock, G. T. & Sons, Greensboro, N. C.
Globe Foundry & Machine Co. (Wheel), Sheboygan, Mich.
Golden, Geo. W. & Co. ("Perfection" Bylundum, for Mechanic or Household), Detroit, Mich.

Goodnow, L. H. Foundry Co., Fitchburg, Mass.
Hall, Chas. E. Co. ("Union" Foot Power), Buffalo, N. Y.
Hampden Corundum Wheel Co., Brightwood, Springfield, Mass.

Herrick & Cowell, New Haven, Conn.
HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Holl Mfg. Co., 333 Main, Buffalo, N. Y.
Holmes, E. B. Machinery Co., Buffalo, N. Y.
Huntsville Foundry & Machine Works (Nolan Jones, Props.), Huntsville, Ala.
Lancaster Peerless Emery Wheel Co. ("Peerless," Wet or Dry), Lancaster, Pa.
Maslin, Ino. & Son, 169 1st, Jersey City, N. J.
Mechanics Tool Works, 185 Dearborn, Chicago, Ill.

Nicholls, Wm. S. ("Economy" Emery Stand), 253 B'way, New York
Northampton Emery Wheel Co., Leeds, Mass.
Norton Grinding Co., Worcester, Mass.

PATTERSON, GOTTFRIED & HUNTER (Ltd.), 211 Center, New York
Patterson Tool & Supply Co. ("Patterson"), Dayton, O.
Queen City Punch & Shear Co. ("Helms" ILX), 208 Lawrence, Cincinnati, O.

Rogers, Saml. C. & Co., 10 Lock, Buffalo, N. Y.
Safety Emery Wheel Co., Springfield, O.
Slotkin, Mayer, 210 Canal, New York
Spicer Mfg. Co., New Philadelphia, O.
Springfield Mfg. Co., Bridgeport, Conn.
Standish Machine & Supply Co., Columbus, O.
Sterling Emery Wheel Mfg. Co., Tiffin, O.
Stow Mfg. Co. (Stationary & Portable), Binghamton, N. Y.

SUPERIOR CORUNDUM WHEEL CO.,
Waltham, Mass. (See adv. index, end of book)
Tanite Co., Stroudsburg, Pa.
Vitrified Wheel Co., Westfield, Mass.

WALTHAM MACHINE WORKS (Small),
Waltham, Mass. (See adv. index, end of book)
Western Electric Co. (Electric), 259 S. Clinton, Chicago, Ill. & 57 Bethune, New York
Wilcox Mfg. Co. (Foot Power), Aurora, Ill.

Grinders (Face)

Brown & Sharpe Mfg. Co., Providence, R. I.
Diamond Machine Co., Providence, R. I.
Emmert Mfg. Co., Waynesboro, Pa.
Heald Machine Co., Worcester, Mass.
Iroquois Machine Co., Providence, R. I.
Landis Tool Co., Waynesboro, Pa.
MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)
Norton Grinding Co., Worcester, Mass.

Grinders (Foot & Hand Power)

Chicago Wheel & Mfg. Co., 330 W Monroe, Chicago, Ill.
Clizbe Bros. Mfg. Co., Plymouth, Ind.
Hall, Chas. E. Co., Buffalo, N. Y.
Luther Bros. Co. ("Luther" Hand), Milwaukee, Wis.
Pike Mfg. Co., Pike, N. H.
Robertson Mfg. Co., Buffalo, N. Y.

*Grinders (Gauge)

WALTHAM MACHINE WORKS (Small),
Waltham, Mass. (See adv. index, end of book)

Grinders (Huller Knife)

Carver Cotton Gin Co. (For Cotton Seed Hullers), East Bridgewater, Mass.

Grinders (Internal)

Heald Machine Co., Worcester, Mass.
Landis Machine Co. (Cylindrical), Waynesboro, Pa.
PRENTISS TOOL & SUPPLY CO., 115 Liberty,
New York. (See adv. index & branch offices, end of book)
Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
WALTHAM MACHINE WORKS (Small),
Waltham, Mass. (See adv. index, end of book)

*Grinders (Knife, Automatic)

COVEL MFG. CO., Benton Harbor, Mich.
(See adv. index, end of book)

Grinders (Knife & Scissors)

Arcade Mfg. Co. ("Schofield," "Scientific," "Acme" Hand & Foot Power), Freeport, Ill.
Buck, V. P. ("Perfection" Scissors), 82 Lincoln, Boston, Mass.
COVEL MFG. CO., Benton Harbor, Mich.
(See adv. index, end of book)
Olmstead, L. H. ("Olmstead's" Grinders & Sharpners), Hingham Heights, N. J.
Royal Mfg. Co. ("Practical" Kitchen Knife Grinder), Lancaster, Pa.
Safety Emery Wheel Co. (Knife Only), Springfield, O.
WHITMAN & BARNES MFG CO. ("Diamond,"
Bevel Wheel also for Scythes, etc.), West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Grinders (Lathe Center)

Diamond Machine Co., Providence, R. I.
Dock Herman, 905 N. Carlisle, Phila., Pa.
Pratt & Whitney Co., Hartford, Conn.
Trump Bros. Machine Co., Wilmington, Del.

Grinders (Mill Pick)

Bullock, Chas. K., 1361 Ridge av., Phila., Pa.

*Grinders of Minerals, Clays, Etc.

WILBUR, JOB CO. (Job Grinding in
Car Load Lots). Office, Providence, R. I.;
Factory, Phila., Pa. (See adv. index, end of book)

Grinders (Mower Knife)

(See Grinders, Sickle & Mower Knife)

Grinders (Oilstone)

Mummert, Wolf & Dixon Co., Hanover, Pa.

Grinders (Plain Tool)

Barnes, B. F. Co., Rockford, Ill.
Barnes, W. F. & John Co., Rockford, Ill.
Blount, J. G. Co., Everett, Mass.
Bridgeport Safety Emery Wheel Co. (Emery Wheel), Bridgeport, Conn.
Brown & Sharpe Mfg. Co., Providence, R. I.
Bullock, C. K., 1357 Ridge av., Phila., Pa.
Cady, Chas. N. Co., Canastota, N. Y.
Carroll-Jamieson Machine Tool Co., Batavia, O.
Challenge Machine Co., 5116 Springfield av., Philadelphia, Pa.
Chicago Wheel & Mfg. Co., 336 W Monroe, Chicago, Ill.
Cincinnati Milling Machine Co., Spring Grove av & Alfred, Cincinnati, O.
Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
Diamond Machine Co. (Bench Tools, etc.), Providence, R. I.
Dwight Slate Machine Co., Hartford, Conn.
FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)
Garvin Machine Co., 137 Varick, New York
Gisholt Machine Co. ("Universal Lathe & Planer"), Madison, Wis.
Gould & Eberhard, Newark, N. J.
Iroquois Machine Co., Providence, R. I.
Landis Machine Co. (Cylindrical), Waynesboro, Pa.

Le Blond, R. K., Machine Tool Co., Cincinnati, O.
Luther Bros. Co. (Hand & Foot Power), No. Milwaukee, Wis.
Miami Valley Machine Tool Co., Dayton, O.
Modern Tool Co., Erie, Pa.

MORSE TWIST DRILL & MACHINE
Co., New Bedford, Mass. (See adv. index, end of book)

Mummert, Wolf & Dixon Co. ("Universal"), Hanover, Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Northampton Emery Wheel Co., Leeds, Mass.
Norton Grinding Co., Worcester, Mass.
Osterlein Machine Co., Cincinnati, O.
Pratt & Whitney Co., Hartford, Conn.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index & branch offices, end of book)

Ransom Mfg. Co. (Vulcan), Oshkosh, Wis.
Robertson Mfg. Co. ("Hero"), Buffalo, N. Y.
St. Louis Machine Tool Co., St. Louis, Mo.
Safety Emery Wheel Co., Springfield, O.
Springfield Mfg. Co., Bridgeport, Conn.
Star Corundum Wheel Co., Detroit, Mich.

STARK TOOL CO. (For Small Tools), Waltham,
Mass. (See adv. index, end of book)
Sterling Emery Wheel Mfg. Co., Tiffin, O.
Tabor Mfg. Co. ("Taylor"), 1740 Hamilton, Phila., Pa.

Tucker Machine Co., 222 E 9th, Cincinnati, O.
Vitrified Wheel Co., Westfield, Mass.
Walker Grinder Co., Worcester, Mass.
Webster & Perks Tool Co. (W. & P.), Springfield, O.

Western Implement Co., Port Washington, Wis.
Whitney Mfg. Co., Hartford, Conn.
Zucker, Levett & Loch Co., 516 W 25th, New York

Grinders (Planer Knife)

American Twist Drill Co. (Automatic), Laconia, N. H.
American Woodworking Machinery Co., Rochester, N. Y., West st. bldg., New York
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Bentel & Margedant Co. (Wet & Dry), Hamilton, O.
Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
Capitol Machine Wks. (Automatic), Indianapolis, Ind.
Carver Cotton Gin Co. (Wet & Dry), E Bridgewater, Mass.

Cutter, Wood & Stevens Co., Boston, Mass.
Defiance Machine Works, Defiance, O.
Hickok, W. O. Mfg. Co., Harrisburg, Pa.
Holmes, E. & B. Machinery Co., Buffalo, N. Y.
Mummert, Wolf & Dixon Co. ("Universal"), Hanover, Pa.

Niles-Bement-Pond Co., 111 B'way, New York
Powers, Wm. T. & Son, Grand Rapids, Mich.
Rogers, Samuel C. & Co. ("Buffalo" Automatic, etc.), 10 Lock, Buffalo, N. Y.
Safety Emery Wheel Co., Springfield, Ohio.
Saxon Machine Co. (Automatic), Holyoke, Mass.

Seybold Machine Co., Dayton, O.; 312 Dearborn, Chicago, Ill., & 70 Duane, New York
Smith, H. B. Machine Co., Smithville, N. J.
SUPERIOR CORUNDUM WHEEL CO.,
Waltham, Mass. (See adv. index, end of book)
Trevor Mfg. Co., Lockport, N. Y.
Woods, S. A. Machine Co., Boston, Mass.

Grinders (Portable)

Armstrong-Blum Mfg. Co. ("Marvel"), 107 N Francisco av., Chicago, Ill.
Brown, Harold P. (Hand Power), 120 Liberty, New York

CHICAGO FLEXIBLE SHAFT CO.
(Emery, etc.), La Salle av., Chicago, Ill.
(See adv. index & branch offices, end of book)
Chicago Pneumatic Tool Co. (Operated Either by Compressed Air or Electricity), Fisher bldg., Chicago, Ill.
Cincinnati Electrical Tool Co. (Electric), Cincinnati, O.

Diamond Machine Co., Providence, R. I.
Hisey-Wolf Machine Co. (Electrical Driven), Cincinnati, O.

Lees, Williams Co., Pittsburg, Pa.
Lektro Mfg. Co. ("Lektro"), Cincinnati, Ohio
Royal Mfg. Co. (Hand Power, Carborundum), Lancaster, Pa.
Stow Flexible Shaft Co., N 26th & Burtonwood, Phila., Pa.

Stow Mfg. Co. (Electric, Flexible Shaft), Binghamton, N. Y., & Phila., Pa.
United States Electric Tool Co. (Electric Hand), Cincinnati, O.

Grinders (Reamer & Cutter)

Adams Co. ("The Farwell Cutter"), Dubuque, Iowa
 Anderson Tool Co., Anderson, Ind.
 Becker Milling Machine Co., Hyde Park, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Cincinnati Milling Machine Co., Spring Grove av & Alfred, Cincinnati, O.
 Clark, Jas., Jr., Electric Co. (Cutter), Louisville, Ky.
 Clough, R. M., Tolland, Conn.
COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft), Worcester, Mass. (See adv. index, end of book)
 Dsston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Dwight Slate Machine Co., Hartford, Conn.
 Faneuil Watch Tool Co. (Cutter), 1 Brooks Br., Boston, Mass.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
 Garvin Machine Co., 137 Varick, New York
 Greenfield Machine Co., Greenfield, Mass.
 Hisey-Wolf Machine Co. (Portable Electric), Cincinnati, O.
 Le Blond, R. K., Machine Tool Co., Cincinnati, O.
 Lektro Mfg. Co., 44 Walnut, Cincinnati, O.
 Mixer, J. W. Saw Tool Co. ("Mixer" Gummer Cutter Grinder), Plymouth, Mass.
 National Machine Co. (Cutter), Hartford, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Northampton Emery Wheel Co., Leeds, Mass.
 Norton Grinding Co., Worcester, Mass.
 Olney Machine Works (Automatic Cutter), Phila., Pa.
 Osterlein Machine Co., 2850 Spring Grove av., Cincinnati, O.
 Pratt & Whitney Co., Hartford, Conn.
PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Putnam Machine Co., Fitchburg, Mass.
 Rivett Dock Co., Boston, Mass.
 Rivett Lathe Mfg. Co. (Cutter), Brighton, Boston, Mass.
 Russell Mfg. Co. (Side, Angular & Face Milling Cutters), Binghamton, N. Y.
STARK TOOL CO. ("Stark" Pinion Cutter Grinder), Waltham, Mass. (See adv. index, end of book)
SUPERIOR CORUNDUM WHEEL CO., Waltham, Mass. (See adv. index, end of book)
 Walker Grinder Co., Worcester, Mass.
 Wells, F. E. & Son Co., Greenfield, Mass.
 Wilmarth & Norman Co., Grand Rapids, Mich.
 Woods Engineering Co., Alliance, O.

*Grinders (Ring)

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)

Grinders (Roll)

Diamond Machine Co. (Spindle & Roll), Providence, R. I.
 Hamden Corundum Wheel Co., Brightonwood, Mass.
 Harrington, E. Son & Co., 17th & Callowhill, Philadelphia, Pa.
 Lohdell Car Wheel Co., Wilmington, Del.
 Sprugfield Mfg. Co., Bridgeport, Conn.

Grinders (Rotary Shear)

(See also Grinders, Rotary)

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
 Springfield Mfg. Co., Bridgeport, Conn.

Grinders (Sample Ore)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Calkins Co. ("Advance" Disc, Hand or Power), Los Angeles, Cal.
 Davis, F. M. Iron Works Co., Denver, Col.
 Denver Engineering Works Co., Denver, Col.
 Engelbach Machine Mfg. Co., Leadville, Col.
 Mine & Smelter Supply Co., Denver, Colo.
 Power Mining & Machinery Co., Cudahy, Wis.
 Union Iron Works Co., San Francisco, Cal.

Grinders (Sand)

Wetherill, R. & Co., Chester, Pa.

Grinders (Saw)

COVEL MFG. CO. (Band Saw), Benton Harbor, Mich. (See adv. index, end of book)
 Hinds, Thos., Malone, N. Y.
 Q. M. S. Co. (Automatic), Plafusfield, N. J.

Grinders (Sickle & Mower Knife)

Acme Harvesting Machine Co. ("Acme"), Peoria, Ill.
 Ajax Mfg. Co. ("Vulcan Moore"), Pittsburg, Pa.
 Chapman, H. L. ("Chapman"), Marcellus, Mich.
 Cheney, S. & Son ("Fowler"), Manlius, N. Y.
 Chicago Wheel & Mfg. Co. ("Gem" & "Jewell"), Chicago, Ill.
 Clizbe Bros. Mfg. Co. ("Daily," "Royal," "Star," "Crown" Sickle), Plymouth, Ind.
 Comstock, Geo. S. ("The Lightning"), Mechanicsburg, Pa.
 Cutaway Harrow Co. ("Dutton"), Higganum, Conn.
 Herschel, R. Mfg. Co. ("Herschel," "New Model"), Peoria, Ill.
 International Harvester Co. of America, ("Champion," "Deering," "McCormack," "Milwaukee," "Osborne," "Plano"), Chicago, Ill.
 Leavitt Machine Co. ("Perfection"), Orange, Mass.
 Luther Bros. Co. ("Bi-Pedal," "Challenge," "Luther," Sickle Grinders), North Milwaukee, Wis.
 Luther, C. J. Co. ("Boler," "Western"), Port Washington, Wis.
 Messner Bros. & Co. (World's), Huntington, Ind.
 Racine Malleable & Wrought Iron Co. ("Boss" & "Racine"), Racine, Wis.
 Schofield & Co. ("Schofield"), Freeport, Ill.
 Western Implement Co. ("Oshorue," "Western," "Hill," "Farmers Joy" & Sickle Grinders), Port Washington, Wis.
WHITMAN & BARNES MFG. CO. ("Diamond" Bevel Wheel), Chicago, Ill. (See adv. index & branch offices, end of book)
 Wilcox Mfg. Co. ("Velox"), Aurora, Ill.
 Wood, Walter A. Mower & Reaper Machine Co. ("Paragon"), Hoosick Falls, N. Y.

*Grinders (Silversmiths')

COATES CLIPPER MFG. CO., Worcester, Mass. (See adv. index, end of book)

Grinders (Spindle)

Moseley Lathe Co. ("Moseley" Traverse for Internal and External Grinding), Elgin, Ill.

Grinders (Surface)

American Die & Tool Co. (Combined Surface Grinder & Head), Reading, Pa.
 Barth Grinder Co., Fitchburg, Mass.
 Besly, Chas. H. & Co. ("Besly" Flat Surface), 15 S Clinton, Chicago, Ill.
 Bignall & Keeler Mfg. Co., Edwardsville, Ill.
 Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Challenge Machine Co., 5116 Springfield av., Phila., Pa.
 Clark, Jas., Jr., Electric Co., Louisville, Ky.
 Cleveland Automatic Machine Co. ("Cleveland" Tool & Surface), Cleveland, O.
 Clizbe Bros. Mfg. Co. ("Crown"), Plymouth, Ind.
 Clough, R. M., Tolland, Conn.
 Diamond Machine Co. (Automatic, Hand, etc.), Providence, R. I.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
 Garvin Machine Co., 137 Varick, New York
 Head Machine Co., Worcester, Mass.
 Hisey-Wolf Machine Co. (Portable Electric), Cincinnati, O.
 Iroquois Machine Co., Providence, R. I. & 150 Nassau, New York
 Landis Machine Co., Waynesboro, Pa.
 La Salle Machine & Tool Co., La Salle, Ill.
 Long & Ailstatter Co. (Side Grinding for Flat Surfaces), Hamilton, O.
 National Machine Co., Hartford, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 211 Center, New York
PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Safety Emery Wheel Co., Springfield, O.

Saxon Machine Co., Holyoke, Mass.
 Springfield Mfg. Co., Bridgeport, Conn.
 Stehn, Wm. P., & Co., Rochester, N. Y.
 Taulite Co., Stroudsburg, Pa.
 Walker Grinder Co. (Walker Ideal Automatic Motor Drivers), Worcester, Mass.
 Wilmarth & Norman Co., Grand Rapids, Mich.

Grinders (Swing Frame)

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
 Cutter, Wood & Stevens Co., 68 Pearl, Boston, Mass.
 Safety Emery Wheel Co., Springfield, O.
 Springfield Mfg. Co., Bridgeport, Conn.
 Sterling Emery Wheel Mfg. Co., Tiffin, Ohio

Grinders (Tool)

(See Grinders, Plain Tool; also Grinders, Wet Tool)

Grinders (Tool Post)

Armstrong-Blum Mfg. Co. (Fitted for Attachment to Lathes & Planers), 107 N. Francisco av., Chicago, Ill.
 Grant Mfg. & Machine Co. (& Internal), Bridgeport, Conn.

Grinders (Track Rail)

Stow Mfg. Co. (Electric, with Flexible Shaft), Binghamton, N. Y.

Grinders (Twist Drill)

(See Grinders, Drill)

Grinders (Universal)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Diamond Machine Co., Providence, R. I.
 Gisholt Machine Co. (For Lathes & Planer Tools), Madison, Wis.
 Greenfield Machine Co., Greenfield, Mass.
 Iroquois Machine Co., Providence, R. I. & 150
 Landis Machine Co. (Cylindrical), Waynesboro, Pa.
 Le Blond, R. K., Machine Tool Co., Cincinnati, O.
 Lektro Mfg. Co. ("Lektro" Portable), Cincinnati, O.
 Modern Tool Co., Erie, Pa.
 Norton Grinding Co., Worcester, Mass.
PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Springfield Mfg. Co., Bridgeport, Conn.
 Thompson Grinder Co., Springfield, O.
 Walker Grinder Co., Worcester, Mass.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
 Woods Engineering Co., Alliance, O.

Grinders (Valve)

Cleveland Pneumatic Tool Co. ("Cleveland" Portable), 6410 Hawthorne av., Cleveland, Ohio
 Motch & Merryweather Mach. Co. ("Misch"), Cleveland, O.

Grinders (Vertical)

Diamond Machine Co. (Also with Polishing Drum), Providence, R. I.

Grinders (Wet Tool)

Barnes, B. F. Co., Rockford, Ill.
 Bath Grinder Co. ("Bath"), Fitchburg, Mass.
 Mount, J. G. & Co., Everett, Mass.
 Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
 Challenge Machine Co., 5116 Springfield av., Phila., Pa.
 Clark, Jas., Jr., Electric Co. (Electrically Driven), 313 W Main, Louisville, Ky.
 Diamond Machine Co., Providence, R. I.
 Edgemont Machine Co. ("Edgemont"), Dayton, Ohio
 Gould & Eberhardt, Newark, N. J.
 Head Machine Co., Worcester, Mass.
 Lutter & Gies ("Milwaukee"), 260 Lake, Milwaukee, Wis.
 Monarch Emery & Corundum Wheel Co. ("Selfers"), Camden, N. J.
 Northampton Emery Wheel Co., Leeds, Mass.
PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Queen City Punch & Shear Co. ("Heinss," Emery), 208 Lawrence, Cincinnati, O.

Ransom Mfg. Co. (Belt or Motor Driven). Oshkosh, Wls.
Safety Emery Wheel Co., Springfield, O.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton. Phila., Pa.
SUPERIOR CORUNDUM WHEEL CO.
Waltham, Mass. (See adv. index, end of book)
Tucker Machine Co., 222 E 9th, Cincinnati, O.
Walker, O. S. & Co. ("Globe," Water Tool). Worcester, Mass.
Washburn Shops (Drill), Worcester, Mass.
Whitney Mfg. Co., Hartford, Conn.
Wilmarth & Morman Co. (Electrically Driven). Grand Rapids, Mich.

Grinders (Wood Pulp)

(See also Paper & Pulp Mill Machinery)

Bagley & Sewell Co., Watertown, N. Y.
Bellows Falls Machine Co., Bellows Falls, Vt.
Dayton Globe Iron Works Co., Dayton, Ohio
Ditts Machine Works, Fulton, N. Y.
Friction Pulley & Machine Works, Sandy Hill, N. Y.
Holyoke Machine Co., Holyoke, Mass.
Pusey & Jones Co., Wilmington, Del.
Scott, Olin, Bennington, Vt.
Valley Iron Works Co., Appleton, Wls.

*Grinding Stones (Compositions For)

SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)

Grindstone Boxes & Frames

American Tool & Machine Co., 109 Beach Boston, Mass.
Athol Machine Co. (Iron), Athol, Mass.
Defiance Machine Works (Iron), Defiance, O.
Cleveland Stone Co. (Grindstone Frames). Hickox bldg, Cleveland, O.
Graham, E. O., 180 Centre, New York
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Hoppen, J. E. & Sons (Iron), Belleville, N. J.
Howard Iron Works (Iron), Buffalo, N. Y.
Putnam Machine Co., Fitchburg, Mass.
San Francisco Tool Works, 27 Stevenson, San Francisco, Cal.
Sellers, Wm. & Co. (Inc.), (Iron), 1600 Hamilton Philadelphia, Pa.
Smith, H. B. Machine Co. (Iron), Smithville, N. J.

Grindstone Fixtures

American Foundry & Mfg. Co., St. Louis, Mo.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
National Supply Co., 7 W Lombard, Baltimore, Md.
Dean Hardware Co., Reading, Pa.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.
Susquehanna Casting Co., Wrightsville, Pa.
Weller Hdw. & Fdry. Co., Horseheads, N. Y.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wilcox Mfg. Co., Aurora, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

Grindstones

Atlantic Grindstone, Coal & Railway Co. (Ltd.) (Nova Scotia), Providence, R. I.
Bronson & Townsend Co., 406 State, New Haven Conn.
Buffalo Foundry Supply Co., 339 Babcock, Buffalo, N. Y.
Cleveland Stone Co. ("Sterling"), Cleveland, O.
Columbia Stone Co. of Cleveland (Loose & Mounted), Cleveland, O.
Dayton Roll & Wringer Co., Dayton, O.
Everhard Co., Massillon, O.
Francis & Co., 859 Main, Hartford, Conn.
Garrett, James & Co., 1432 S Penn sq, Phila. Pa.
Gordon Metal Co., Richmond, Va.
Grafton Stone Co. (Also Scythe Stones), Elyria, O.
Kirk Grindstone Co., 1652 Dormann, Cincinnati, O.
Lombard & Co. (Nova Scotia), 23 A, Boston Mass.
McCroden, Jno. & Co., 33 West, New York
Marietta Stone Co. (Inc.) (For Saw & Edge Tools, Files, etc.), Marietta, O.
Mitchell, Wilson, 605 N Front, Phila., Pa.
Morris, E. K. & Co., 317 W 2d, Cincinnati O.
OHIO QUARRIES CO., 818 Euclid av, Cleveland, O., & 1 Madison, N. Y. Quarries & Mills, Amherst, O.
Penn Hardware Co. (Kitchen), Reading, Pa.

Pike Mfg. Co., 151 Chambers, N. Y., & Pike Station, N. H.
Richards Mfg. Co. (Mounted & Ball Bearing). Aurora, Ill.
Smith's Jno. E. Sons Co., Buffalo, N. Y.
Wallace Co., Port Austin, Mich.
WHITMAN & BARNES MFG. CO. (Tubular & Wood Frame, etc.), Chicago, Ill. (See adv. index & branch offices, end of book)
Wilcox Mfg. Co., Aurora, Ill.

Grindstones (Kitchen)

Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.
Wilcox Mfg. Co., Aurora, Ill.

Grips (Cable)

Elgin Mfg. Co. ("McMahon" Underground). Elgin, Ill.
Glass, Geo. H., & Co. ("Never Slip" Wire). Pekin, Ill.
Hallett Iron Works ("McMahon"), 92 W Park, Chicago, Ill.
Hazard Mfg. Co. (For Coal Cars or Mine Wagons), Wilkes-Barre, Pa.
Klein, Mathias, & Sons ("Quick Samson"), 87 W Van Buren, Chicago, Ill.
Litchfield Foundry & Machine Co. ("Morgau's," for Mine Cars, etc.), Litchfield, Ill.
Mullin, Coleman J. Co. ("Gem"), 432 Kent av, Brooklyn, N. Y.
Universal Cable Grip Co. ("Universal," for Underground or Aerial Cables), Syracuse, N. Y.

Grips (Chain Tire)

Weed Chain Tire Grip Co., 28 N Moore, New York

Grips (Nail)

Vaughn & Bushnell (V & B.) Eight Steel Fingers), 875 W Carroll av, Chicago, Ill.

Grips (Socket Strain Relief)

Marshall Electric Co. (Fibre), Boston, Mass.
Swan Electric Co., Boston, Mass.
Trumbull Elec. Mfg. Co., Plainville, Conn.

Grips (Steering Lever)

American Enamel Co., Neville, Providence, R. I.
Goodrich, B. F. Co., Akron, O.
Mesinger Mfg. Co., 1801 1st av, New York
Woodworth Bros., Newton Highlands, Mass.

Grommet Inserting Dies & Cutters

Wilcox, Crittenden & Co., Middletown, Conn.

Grommets (Metal)

American Ring Co., Waterbury, Conn.
Berbecker & Rowland Mfg. Co., Waterville, Conn.
BETTCHEE MFG. CO., Clark av at C. C. C. & St. L. Ry, S W, Cleveland, O. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.
Jenkinson, R. C. & Co., Newark, N. J.
Judd, H. L. Co. (Carpet Pins & Sockets), 87 Chambers, New York
Metal Stamping Co. (Grommet Knobs), 243 West, New York
Rimmon Mfg. Co., Seymour, Conn.
Stimpson, Edwin B. & Son (Brass), 31 Spruce, New York
TURNER & SEYMOUR MFG CO., Torrington, Conn. (See adv. index, end of book)
Waterbury Brass Co., Waterbury, Conn. (hook)
Wilcox, Crittenden & Co. (Brass), Middletown, Conn.

Groovers (Sheet Metal)

Barber Mfg. Co. ("Noyes"), Ashtabula, O.

Guano Distributors

Fletcher, John C., McColl, S. C.
Gantt Mfg. Co. ("Gantt's"), Macon, Ga.
Navassa Guano Co. (Mfrs.), Wilmington, N. C.

Guards (Arc Lamp Wire)

Hamblin & Russell ("Never Break"), Worcester, Mass.
MORSE, FRANK W. ("Never Break"), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

Guards (Cattle, for Railways)

American Bridge Co., 30 Church, New York
Buda Foundry & Mfg. Co. ("Buda"), Railway Exchange bldg, Chicago, Ill.
Climax Stock Guard Co. ("Climax," Vitrified Clay), Canton, O.
Columbian Mail Crane Co. ("Columbian" Steel), 898 Factory, Columbus, O.
Cook's Standard Tool Co. ("Cook's," Steel & "Cook's Steel-Wood"), Kalamazoo, Mich.
FAIRBANKS, MORSE & CO. ("Trackman's" & "Sheffield"), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co. (Chain Surface), 212 N 3d, St. Louis, Mo.
Johnson, W. P. Co., 125 La Salle, Chicago, Ill.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
National Surface Guard Co., The Rookery, Chicago, Ill.
Railroad Supply Co., 215 Dearborn, Chicago, Ill.
Sheffield Car Co., Three Rivers, Mich. Ill.
Wallace Surface Cattle Guard Mfg. Co., Monroe, Ark.

*Guards (Cellar Door)

CINCINNATI MFG. CO. (Autogate), 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

Guards (Electric Lamp)

Attleboro Electric Mfg. Co. ("Greenwood" Steel Only), Attleboro, Mass.
Benjamin Electric Mfg. Co. ("Can't Break"), 42 W Jackson houl, Chicago, Ill.
Browne, Wm. L. ("Shadeguard"), Worcester, Mass.
City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
Crescent Co. ("Wagor," "Protector"), Valparaiso, Ind.
DARBY, EDW. & SONS CO. (Wire), 239 Arch, Phila., Pa. (See adv. index, end of book)
Electric Service Supplies Co. ("O-K"), Phila., Pa.
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)
ESTEY WIRE WORKS, 59 Fulton, New York. (See adv. index, end of book)
Gail-Webb Mfg. Co., Buffalo, N. Y.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Greenwood Mfg. & Supply Co. ("Greenwood," "Peerless"), 147 Milk, Boston, Mass.
Hamblin & Russell Mfg. Co. ("Never Break"), Worcester, Mass.
Hipwell Mfg. Co., North Side, Pittsburg, Pa.
Holdfast Lamp Guard Co., 219 N 2d, St. Louis, Mo.
Hubbell, Harvey, Bridgeport, Conn.
Jugills, Wm. Wire & Iron Works ("Perfection"), 59 Woodbridge, Detroit, Mich.
Joseph, Sigmund, 245 W B'way, New York
MEYERS, FRED. J. MFG. CO., Ham-ilton, O. (See adv. index, end of book)
MORSE, FRANK W. ("Never-Break"), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
Mullin, Coleman J. Co., 430 Kent av, Brooklyn, N. Y.
National Mfg. Co., Worcester, Mass.
Russell & Stoll Co., 48 Cliff, New York
Standard Electric & Chemical Co. ("Universal"), 226 S Clinton, Chicago, Ill.
Standard Wire Co., Newcastle, Pa.
Wire Goods Co., Worcester, Mass.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Guards (Lawn)

Bethlehem Foundry & Machine Co. (Ornamental Cast & Wrought Iron), Front, South Bethlehem, Pa.
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Guards (Mower & Reaper)

Henry & Allen, Anburn, New York
WHITMAN & BARNES MFG. CO., Chi-cago, Ill. (See adv. index & branch offices, end of book)

Guards (Portable Lamp, Wire)

Benjamin Electric Mfg. Co. ("Protectalite"),
40 W Jackson boul, Chicago, Ill.
Crescent Co. ("Bull Dog," Improved Protec-
tor"), Valparaiso, Ind.
Electric Service Supplies Co. ("Keystone"),
1020 Filbert, Phila., Pa.
FRINK, I. P., 551 Pearl, New York.
(See adv. index, end of book)
Hamblin & Russell Mfg. Co., Worcester, Mass.
Harvard Electric Co., 60 W Van Buren, Chi-
cago, Ill.
Joseph, Sigmund, 245 W B'way, New York
MORSE, FRANK W. ("Never Break"),
516 Atlantic av, Boston, Mass. (See adv.
index end of book)
Mullin, Coleman J. Co., 430 Kent av, Brooklyn,
N. Y.
Overbagh & Ayres Mfg. Co. ("Camco"), 232 S
Clifton, Chicago, Ill.
Robb & Blackmer, Boston, Mass.
Russell & Stoll Co., 48 Cliff, New York
Seidler-Miner Elec. Co. ("S-M") Watertight
Bunch Light, Detroit, Mich.
Swan Electric Co., Boston, Mass.
Wells Light Mfg. Co., 14 Church, New York

***Guards (Railroad Bridge)**

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end
of book)

Guards (Safety Car)

McGuire-Cummings Mfg. Co. (Coil Spring Safe-
ty Guards Used Between Cars), 122 N
Sangamon, Chicago, Ill.
Meyer Safety Guard Co. (For Open & Closed
Cars to Prevent Passengers from Boarding
or Alighting While Car is in Motion),
Omaha, Neb.

***Guards (Skylight)**

BOLLES, J. E. IRON & WIRE WORKS,
Detroit, Mich. (See adv. index, end of book)
ESTEY BROS. CO. (Wire), Liberty &
Greenwich, New York. (See adv. index,
end of book)
MEYERS, FRED. J. MFG. CO., Hamil-
ton, O. (See adv. index, end of book)
SCHREIBER, L. & SONS CO. 8th & Eg-
gleston av, Cincinnati, O., and 1133 B'way,
New York. (See adv. index, end of book)

Guards (Tree)

(See Iron Railings & Fences)

Guards (Trolley)

Automatic Trolley Guard Co., Buffalo, N. Y.
National Railroad Trolley Guard Co., 11 Pine,
New York

Guards (Wheel)

Bethlehem Foundry & Machine Co. (Cast
Iron), Front, South Bethlehem, Pa.
Sterling-Meaker Co. (For Electric Cars), New-
ark, N. J.

Guards (Window)(See Grilles, Various Kinds; also Wire
Workers)***Guides (Elevator)**

STANDARD GAUGE STEEL CO.
(Compressed Steel & Finished Tees), Beaver
Falls, Pa. (See adv. index, end of book)

Gum (Pure Rubber Splicing)

Boston Woven Hose & Rubber Co., Cambridge,
Clifton Mfg. Co., Boston, Mass.
Consumers Rubber Co. ("Samson"), Cleveland,
Ohio
Massachusetts Chemical Co., Walpole, Mass.
Morgan & Wright, Detroit, Mich.

Gum-Lac

Ball Chemical Co. (A Pure Gum & Spirit
Varnish), Pittsburg, Pa.

Gummers (Saw)

Adams, W. T. Machine Co., Corinth, Mass.
Ajax Mfg. Co. ("Standard," "I. X. L." &
"Great American"), Allegheny, Pa.
American Woodworking Machinery Co., Roch-
ester, N. Y., & West Street bldg. New York
Atkins, E. C. & Co. (Inc.), Main Office & Fac-
tories, Indianapolis, Ind.
Atlantic Works (Inc.), 2821 Oakford, Phila.,
Pa.
Austin & Son ("Champion"), Grand Rapids,
Mich.
California Saw Works, San Francisco, Cal.
COVEL MFG. CO. (Automatic), Benton
Harbor, Mich. (See adv. index, end of
book)

Diamond Machine Co., Providence, R. I.
Disston, Henry & Sons (Inc.), Tacony, Phila.,
Emerson, Smith & Co., Beaver Falls, Pa.
Gerlach, Peter Co. ("Gerlach," for Cylinder,
Resaw, Heading, Siding, Shingle, Veneer,
etc.), Columbus rd & Winter, Cleveland, O.
Henderson, W. K. Iron Works & Supply Co.,
Shreveport, La.

Hinds, Thos. (Band Saws), Malone, N. Y.
Hoe, R. & Co., 504 Grand, New York
Howell, R. R., & Co., 31st av, cor S E 4th,
Minneapolis, Minn.
Mixer, J. W. Saw Tool Co. (For Circular
Saws, also Automatic Self-Feed ("Cham-
plon" Saw Gummer), Plymouth, Mass.
Reed, Jos. B. (The Hoo-Hoo), Cairo, Ill.
Riverside Iron Works (Crescent), Kokomo, Ind.
Rogers, S. C. & Co., 10 Lock, Buffalo, N. Y.
Rowe & Trunnell, 123 W 2d, Cincinnati, O.
Simonds Mfg. Co., Fitchburg, Mass.
Southern Saw Works, Atlanta, Ga.
Tanite Co., Stroudsburg, Pa.
Wood Gummer & Filler Co., Atlanta, Ga.

***Gun Cotton**

(See also Cotton, Calking & Gun)

DU PONT, E. I. de NEMOURS POW-
der Co., Wilmington, Del. (See adv. index
& branch offices, end of book)

Gun Implements

(See Tools, Gun Cleaning & Re-Loading)

Gun Mfrs.

(See Rifles, Guns, Etc.)

Gymnastic Apparatus

Narragansett Machine Co., Providence, R. I.
Spalding, A. G. & Bros., 126 Nassau, New York,
& 149 Wabash av, Chicago, Ill.

Hack Saws(See Saws, Hack; also Hack Saw Machines;
also Blades & Frames)**Hair Cloth Mfrs.**

Cataract Hair Cloth Co., Niagara Falls, N. Y.
French Hair Cloth Co., Pawtucket, R. I.
Mawson, Jno. Hair Cloth Co., Kensington &
Glenwood avs, Phila., Pa.
Rock, J. E., Niagara Falls, N. Y.

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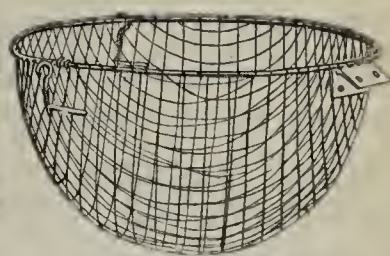
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Hair (Curled)

American Glue Co., Boston, Mass.
 Armour Curled Hair, 205 La Salle, Chicago, Ill.
 Baeder, Adamson & Co., 210 Chestnut, Philadelphia, Pa.
 Bichdon, V. R., Buffalo, N. Y.
 Burkbart, F. Mfg. Co., 720 N Main, St. Louis, Mo.
 Coghlan, Jos. T. & Co., B Lehigh av & Edgemont, Phila., Pa.
 Delany & Co., 209 N 3d, Philadelphia, Pa.
 Eagle Glue & Curled Hair Co., 2 Dover, New York
 Gordon Bros., Pierce & Orthodox, Philadelphia, Pa.
 Grover, Jno. O. & Son, 2800 Tullip, Phila., Pa.
 Mason, Henry J., 521 Arch, Phila., Pa.
 Mitchell, P. R. Co., Harrison & Spring Grove av, Cincinnati, O., & 185 Canal, New York
 Reardon Mfg. Co., 1553 N B'way, St. Louis, Mo.
 Ritchie, Geo. B. & Co., 57 Ferry, New York
 Rogers, C. L. & Co., 145 5th av, New York
 Smith, Oscar & Son Co. (Inc.), 310 Spruce, Phila., Pa.
 Swift & Co., Chicago, Ill.
 Tunnell & Co., F. W., 15 N 5th, Phila., Pa.
 Walpert, Fred., 156 5th av, New York
 Wilkins Bros., 440 Pearl, New York
 Wilkins, Wm. Co., Baltimore, Md.
 Williams, Geo., New York City.
 Woll, Peter & Sons, 27 Howard, N. Y., & 171 Berks, Philadelphia, Pa.
 Zeldman, Morris, 359 Market sq, Chicago, Ill.

Hair Dryers (Electric)

Birtman, C. F. Co., 152 E Lake, Chicago, Ill.
 Camp Co., La Crosse, Wis.
 Electric Mfg. Co., San Francisco, Cal.
 Fidelity Electric Co. ("Universal"), Lancaster.
 Halliwell & Co., 109 E 12th, New York Pa.

Hames (Mine & Lumbering)

Beagle Hame Works, Freeland, Pa.
 Hoch Hames Co., Hazleton, Pa.
 Kugler, Clarence B., Jr., & Co., Land Title bldg, Phila., Pa.
 Olewine, Wm. & Son, Hazleton, Pa.
 Pittsburg Harness Supply Co., Pittsburg, Pa.
 Strecker Bros. Co., Mariette, O.
 Stratton, J. P., & Son, Sullivan, Ind.
 U. S. Hame Co., Buffalo, N. Y.

Hames (Steel & Wood)

Star Hame Mfg. Co. (Wood), Blanchester, O.
 Todd Mfg. Co., New Albany, Ind.
 U. S. Hame Co., Buffalo, N. Y.

Hammers (Blacksmiths')

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co., Newark, N. J. (end of book)
 Beall Bros. (Inc.) (Flatters, Set, etc.), Alton, Ill.
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 BLISS, E. W., CO. (Drop Forged), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Champion Tool Co. ("Champlon"), Meadville, Pa.
 Cheney, Henry, Hammer Co., Little Falls, N. Y.
 Collins Co., Collinsville, Conn.
 Evansville Tool Works, Evansville, Ind.
 Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.
 Hammond, C. & Son, Ogontz, Pa.
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Hubbard & Co., Pittsburg, Pa.
 Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.
 Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
 Isle, A. W. & Son, 51 Pltt, Boston, Mass.
 Jones & Laughlins Steel Co., Pittsburg, Pa.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 Mack & Co., Rochester, N. Y.
 Maydole, David Hammer Co., Norwich, N. Y.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), Chicago, Ill.
 Verona Tool Works, Verona, Pa., & Murland bldg, Pittsburg, Pa.
 Warner, M. R. & Son, Cromwell, Conn.

Hammers (Blacksmiths', Foot Power)

Standish Machine & Supply Co., Columbus, O.
 Sutton, O. E. Co., Toledo, O.

Hammers (Board Drop)

Williams, White & Co. (Friction), Moline, Ill.

Hammers (Boiler Makers')

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co., Newark, N. J. (end of book)
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Evansville Tool Works, Evansville, Ind.
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
 Isle, A. W. & Son, 51 Pltt, Boston, Mass.
 Maydole, David Hammer Co., Norwich, N. Y.

Hammers (Brass)

Goodell-Pratt Co., Greenfield, Mass.

Hammers (Brick)

(See Hammers, Masons')

Hammers (Bush)

AMERICAN CONCRETE CO. (Mfrs. Agents), 80 William, New York. (See adv. index, end of book)
 Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Atha Tool Co., Newark, N. J.
 Brunner & Lay, 133 W Polk, Chicago, Ill.
 Evansville Tool Works, Evansville, Ind.
 Hauck, Wm. J., 306 Southwest boul, Kansas City, Mo.
 Livingston Mfg. Co., Rockland, Me.
 Mack & Co., Rochester, N. Y.
 Stubbs Steel Co., 17 N 5th, Philadelphia, Pa.
 Trow & Holden, Barre, Vt.

Hammers (Chipping)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
 BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.
 Maydole, David Hammer Co. (Crucible Steel), Norwich, N. Y.

Hammers (Claw)

Arcade Mfg. Co. (Cast), Freeport, Ill.
 Atha Tool Co., Newark, N. J.
 Cheney, Henry Hammer Co., Little Falls, N. Y.
 Franklin Specialty Co. ("Cracker Jack" Nickel Plated), Reading, Pa.
 Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.
 Humason & Beckley Mfg. Co. (Carpenters), New Britain, Conn.
 Maydole, David, Hammer Co., Norwich, N. Y.
 Rocky Hill Hardware Co., Rocky Hill, Conn.
 Stover Mfg. Co., Freeport, Ill.

*Hammers (Concrete Bush)

RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

*Hammers (Concrete Tooling)

RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

Hammers (Confectioners')

Erie Specialty Co., Erie, Pa.

Hammers (Coopers')

Atha Tool Co., Newark, N. J.
 Maydole, David Hammer Co., Norwich, N. Y.
 White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.

Hammers (Copper)

Eureka Tempered Copper Works, North East, Pa.
 Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
 McNab & Harlin Mfg. Co., 56 John, New York
 West Haven Mfg. Co. (Pure Copper), New Haven, Conn.

Hammers (Drilling & Striking)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
 Evansville Tool Works (up to 5 lbs.), Evansville, Ind.
 Fulton Tool Works, Canal, Fulton, O.
 Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.
 Hardsocg, Martin Co., Allegheny, Pa.
 Hubbard & Co. (Striking), Pittsburg, Pa.
 Humason & Beckley Mfg. Co. ("H. & B. Cast Steel"), New Britain, Conn.
 Iron City Tool Works (Ltd.), Pittsburg, Pa.
 Klein-Logan Co., 13th & Breed, Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick" Double Faced), Works, Cheswick, Pa.
 Verona Tool Works, Verona, Pa., & Murland bldg, Pittsburg, Pa.
 Warner, M. R. & Son, Cromwell, Conn.
 Warwood Tool Co., Wheeling, W. Va.

Hammers (Drop)

(See also Presses, Drop)

Alliance Machine Co., Alliance, O.
 Atlas Mfg. Co., Fostoria, O.
 Billings & Spencer Co., Hartford, Conn.
 BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Bremer Machine & Tool Co. (Also Spring Hammers), Kalamazoo, Mich.
 Cady Machine Co., Cleveland, O.
 CANTON FOUNDRY & MACHINE CO. ("Universal," Non-Crystallizing Housing), Canton, O. (See adv. index, end of book)
 Chambersburg Engineering Co. (Steam), Chambersburg, Pa.
 Coulter & McKenzie Machine Co., Bridgeport, Conn.
 Crane, W. W. Foundry & Machine Works, Anburn, N. Y.
 Erie Foundry Co. (Steam), Erie, Pa.
 Iroquois Machine Co. (Automatic & Plain), Providence, R. I.
 Long & Allstatter Co. (Heavy, for Blinding, Drop Forging, Forming, Stamping, etc., Belt, Motor & Steam Driven), Hamilton, O.
 Massillon Foundry & Machine Co. ("Lane" Steam), Massillon, O.
 MERRILL BROS., William st., Masspeth (Borough of Queens), New York. (See adv. index, end of book)
 Michigan Machinery Mfg. Co. ("Michigan"), Ypsilanti, Mich.
 Miner & Peck Mfg. Co., New Haven, Conn.
 MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)
 NIAGARA MACHINE & TOOL Works, c Superior & Randall, Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Perkins Machine Co. (Hand Power & Compressed Air), Warren, Mass.
 PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Scalfe Foundry & Machine Co. (Ltd.), 28th & Smallman, Pittsburg, Pa.
 Toledo Machine & Tool Co., Toledo, O.
 TUOHY BROS. CO., 30 Church (Hudson Terminal bldg), New York. (See adv. index, end of book)
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
 Williams, White & Co. (Crank Lift & Twin Drop), Moline, Ill.
 Wood, Wm. H., Media, Pa.

Hammers (Engineers')

(See Hammers, Machinists')

Hammers (Farriers')

(See Hammers, Blacksmiths')

Champion Tool Co., Meadville, Pa.
 Cheney, Henry Hammer Co., Little Falls, N. Y.
 Evansville Tool Works, Evansville, Ind.
 Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.
 Heller Bros. Co., Newark, N. J.
 Maydole, David Hammer Co., Norwich, N. Y.

Hammers (Foot Power)

Arcade Mfg. Co. ("Freeport"), Freeport, Ill.
 Kerrhard Co. ("Kerrhard"), Red Oak, Iowa
 Novelty Iron Works ("Boss," for Plow, Wagon Heavy Work), Dubuque, Iowa
 Standish Machine & Supply Co. ("Standish"), Columbus, O.
 Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.
 Vulcan Iron Works ("Vulcan"), Mason City, Iowa

Hammers (Granite & Marble)

(See Hammers, Stone Cutters')

Hammers (Helve)

Bradley, C. C. & Son (Cushioned), Syracuse, N. Y.

ELMES, CHAS. F. ENGINEERINGWorks (Steam), cor Fulton & Sangamon Chicago, Ill. (See adv. index, end of book)
Foglesong Machine Co. ("Dayton") Springfield, O.

Lingle, J. H., Bellefonte, Pa.

Long & Allstatter Co. (Adjustable Cushioned, Belt, Motor or Steam Driven), Hamilton, O.

Niles-Bement-Pond Co. (Rubber Cushioned), 111 B'way, New York

Novelty Iron Works (G. E. Davis, Prop.) ("Helva"), Dubuque, Ia.

West Tire Setter Co. ("Rochester"), Rochester, N. Y.

Hammers (Interchangeable)

Greene, Tweed & Co. (The Colvin, with Rawhide, Wood or Copper Head), 17 Murray, New York

Hammers (Justice)

Williams, White & Co., Moline, Ill.

Hammers (Locomotive Frame Welding)*MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)**Hammers (Macadamizing)**

Atha Tool Co., Newark, N. J.

Beall Bros. (Inc.), Alton, Ill.

Evansville Tool Works, Evansville, Ind.

Hammers (Machinists')

Atha Tool Co., Newark, N. J.

Beall Bros. (Inc.), Alton, Ill.

BERNZ, OTTO, S 13th & S Orange av,

Newark, N. J. (See adv. index, end of book)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.

Cheney, Henry Hammer Co., Little Falls, N. Y.

Evansville Tool Works, Evansville, Ind.

Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.

Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.

Maydole, David Hammer Co. (Crucible Steel), Norwich, N. Y.

Peck, Stow & Wilcox Co., Southington, Conn.

Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.

Sawyer Tool Mfg. Co., Fitchburg, Mass.

Smith, H. D. & Co. ("Perfect Handle" Drop Forged), Plantsville, Conn.

STRONG, CARLISLE & HAMMOND

Co., 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Vaughan & Bushnell Mfg. Co. ("V. & B."), 875 Carroll av., Chicago, Ill.

Warner, M. R. & Son, Cromwell, Conn.

WHITMAN & BARNES MFG. CO. ("W. & B."), Chicago, Ill. (See adv. index & branch offices, end of book)**Hammers (Magnet)**

Arcade Mfg. Co. ("Longden"), Freeport, Ill.

Robertson, Arthur R. (Horseshoers, Tack, Bill Posters, etc.), 144 Oliver, Boston, Mass.

Rocky Hill Hardware Co., Rocky Hill, Conn.

Hammers (Masons')

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.

Atha Tool Co., Newark, N. J.

Beall Bros. (Inc.), Alton, Ill.

Black, John B. (also Bricklayers'), Chester, Pa.

Crescent Novelty Mfg. Co. (Brick), 703 S B'way, St. Louis, Mo.

Drew, C. & Co., Kingston, Mass.

Evansville Tool Works, Evansville, Ind.

Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.

Hammond, C. & Son, Ogontz, Pa.

Harvey, H. H., 608 Atlantic av., Boston, Mass.

Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.

Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.

Isle, A. W. & Son, 51 Plitt, Boston, Mass.

Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.

Marshalltown Trowel Co. (Brick), Marshalltown, Iowa

Maydole, David Hammer Co., Norwich, N. Y.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.

Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.

Schueddig, F. Son., 525 S Jefferson av., St. Louis, Mo.

Stortz, Jno. & Son, 210 Vine, Philadelphia, Pa.

Warner, M. R. & Son, Cromwell, Conn.

Warwood Tool Co., Wheeling, W. Va.

White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.

Hammers (Napping)

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.

Atha Tool Co., Newark, N. J.

Beall Bros. (Inc.), Alton, Ill.

Evansville Tool Works, Evansville, Ind.

Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.

Hubbard & Co., Pittsburg, Pa.

Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.

Klein-Logan Co., S. 13th & Breed, Pittsburg, Pa.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Arrott bldg, Pittsburg, Pa.

Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Verona Tool Works, Verona, Pa., & Murland bldg, Pittsburg, Pa.

Hammers (Pattern Makers')*HILL & GRIFFITH CO., Cincinnati, O.**

(See adv. index, end of book)

Hammers (Pavers')

Ames Plow Co., Quincy Hall, Boston

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.

Atha Tool Co., Newark, N. J.

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.

Crescent Novelty Mfg. Co., 703 S B'way, St. Louis, Mo.

Evansville Tool Works, Evansville, Ind.

Harvey, H. H., 608 Atlantic av., Boston, Mass.

Isle, A. W. & Son, 51 Plitts, Boston, Mass.

Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.

Schueddig, F. Son., 525 S Jefferson av., St. Louis, Mo.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.

Hammers (Pile Drivers')**AMERICAN HOIST & DERRICK CO.**

St. Paul, Minn. (See adv. index & branch offices, end of book)

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

CARLIN'S, THOS. SONS CO., 1610 River

av (North Side), Pittsburg, Pa. (See adv. index, end of book)

Contractors' Plant Mfg. Co., 125 Erie, Buffalo, N. Y.

DOBBIE FOUNDRY & MACHINE CO.

Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty,

N. Y., & Old Colony bldg, Chicago. (See adv. index & branch offices, end of book)

MACKINNON BOILER & MACHINE

Co., Bay City, Mich. (See adv. index, end of book)

MUNDY, J. S., 22 Prospect, Newark,

N. J. (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO.,

Harrison, N. J. (See adv. index & branch offices, end of book)

Toledo Foundry & Machine Co., 202 Cherry Toledo, O.

South St. Louis Foundry, 7516 S B'way St. Louis, Mo.

Union Iron Works ("Arnott" Steam), Hoboken, N. J.

Vulcan Iron Works ("Warrington-Nasmith"), 59 Milwaukee av., Chicago, Ill.

Hammers (Plumbers')*BERNZ, OTTO, S 13th & S Orange av,**

Newark, N. J. (See adv. index, end of book)

Hammers (Power)

Alliance Machine Co., Alliance, O.

American Machine & Mfg. Co. ("American"), Cleveland, O.

Beaudry & Co. (Inc.), 141 Milk, Boston, Mass.

BLISS, E. W. Co., 19 Adams, Brook-

lyn, N. Y. (See adv. index, end of book)

Bradley, O. C. & Son, Syracuse, N. Y.

Buffalo Foundry & Machine Co., Buffalo, N. Y.

Central Machine Works Co. (The "Force"), Minneapolis, Minn.

Chambersburg Engin'g Co., Chambersburg, Pa.

Dienelt & Elsenhardt ("Dead Stroke" Spring), 1302 N Howard, Philadelphia, Pa.

Fairbanks, E. T. & Co., St. Johnsbury, Vt.

FAIRBANKS, MORSE & CO., Wabash av &

Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Grinnell Mfg. Co. ("Modern"), Grinnell, Ia.

Hawkeye Mfg. Co. ("Hawkeye"), Cedar Rapids, Iowa

Hess Machine Works, 2512 Callowhill, Phila., Pa.

Howe Scale Co., Rutland, Vt.

Johnston & Jennings Co., Cleveland, O.

Justice, Philip S. & Co. ("Justice" Spring), 421 Chestnut, Philadelphia, Pa.

Kauffman, J. A. ("Kauffman's"), Miamishburg, Ohio

Kane & Roach, Syracuse, N. Y.

Kerrihard Co. ("Kerrihard"), Red Oak, Iowa

Leonhardt, Chas. ("Leonhardt" Adjustable), New Ulm, Minn.

Long & Allstatter Co. (Belt, Motor or Steam Driven), Hamilton, Ohio

Macgowan & Finnigan Foundry & Machine Co. ("Perfect" Trip), St. Louis, Mo.

Manning, Maxwell & Moore, 85 Liberty, N. Y.

MERRILL BROS. (Air Cushion), Wil-

liam st., Maspeth (Borough of Queens), New York. (See adv. index, end of book)

MORGAN ENGINEERING CO., Alliance,

Ohio. (See adv. index & branch offices, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Novelty Iron Works (G. E. Davis, Prop.) ("Helva" & "Boss"), Dubuque, Ia.

PRENTISS TOOL & SUPPLY CO., 115

Liberty, New York. (See adv. index & branch offices, end of book)

Quincy, Manchester, Sargent Co. (Small Post Type), Plainfield, N. J.

Scranton & Co., New Haven, Conn.

Standish Machine & Supply Co. ("Standish"), Columbus, O.

Toledo Machine & Tool Co., Toledo, O.

Turner, Vaughn & Taylor Co. (For Making Chain Only), Cuyahoga Falls, O.

Vulcan Iron Works ("Vulcan"), Mason, City, Iowa

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Williams, White & Co. ("Yeakley," Justice), Moline, Ill.

Woolly Foundry & Machine Co., Anderson, Ind.

Hammers (Rawhide)

(See Mallets, Rawhide)

Hammers (Riveting)

Champion Tool Co. ("Champion"), Meadville, Pa.

Cheney, Henry, Hammer Co., Little Falls, N. Y.

Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.

Granger, David J., 25 S Canal, Chicago, Ill.

Hammond, C. & Son, Ogontz, Pa.

Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.

Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.

Maydole, David Hammer Co. (Crucible Steel), Norwich, N. Y.

Peck, Stow & Wilcox Co., Southington, Conn.

Plumb, Fayette R. (Inc.), Frankford Phila., Pa.

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Stover Mfg. Co., Freeport, Ill.

Warner, M. R. & Son, Cromwell, Conn.

Hammers (Rotary Riveting)

Williams, White & Co., Moline, Ill.

Hammers (Saddlers')

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Hammers (Saw Setting)**COVEL MFG. CO., Benton Harbor, Mich.**

(See adv. index, end of book)

Hanchett Sewage Works, Big Rapids, Mich.

Menominee Saw Co., Menominee, Mich.

Simonds Mfg. Co., Fitchburg, Mass.

Stearns, E. C. & Co., Syracuse, N. Y.

Hammers (Shoemakers')

Franklin Specialty Co. ("Our Hub"), Reading, Pa.

Hammers (Slaters')

(See also Tools, Slaters')

Anderson, W. H. Tools & Supply Co., 14 Macomb, Detroit, Mich.

Evansville Tool Works, Evansville, Ind.

FLORY, S. MFG. CO., Bangor, Pa.
& 149 B'way, New York. (See adv. index, end of book)

Harvey, H. H., 608 Atlantic av., Boston, Mass.

Isele, A. W. & Son, 51 Pitts, Boston, Mass.

Stortz, Jno. & Son, 210 Vinc, Phila., Pa.

Hammers (Steam)

Alliance Machine Co., Alliance, O.

Bethlehem Foundry & Machine Co., South Bethlehem, Pa.

Buffalo Foundry & Machine Co. ("Bell"), Buffalo, N. Y.

Chambersburg Engineering Co. (Single & Double Frame), Chambersburg, Pa.

DUDGEON, RICHARD, 24 Columbia,

New York. (See adv. index, end of book)

ELMES, CHAS. F. ENGINEERING

Works (Helve), c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Erie Foundry Co. ("Erie," Single & Double Frame), Erie, Pa.

Kline, Lewis T., Alpena, Mich.

McDougal & Potter Co, 606 W 55th, New York

Manning, Maxwell & Moore, 85 Liberty, New York

Massillon Foundry & Machine Co. ("Lane" Forge), Massillon, O.

Mesta Machine Co., Lewis bldg., Pittsburg, Pa.

MONIGHAN MACHINE CO. ("American,"

Single & Double Frame), 813 Carroll av, Chicago, Ill. (See adv. index, end of book)

MORGAN ENGINEERING CO. (Single

& Double Stand), Alliance, O. (See adv. index & branch offices, end of book)

Niles-Bement-Pond Co. (Single, Double & Open Frame), 111 B'way, New York

PRENTISS TOOL & SUPPLY CO., 115

Liberty, New York. (See adv. index & branch offices, end of book)

Q. M. S. Co., Plainfield, N. J.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Trethewey, Samuel & Co. (Especially for Tool Steel), 47th & Plummer, Pittsburg, Pa.

Hammers (Stone Cutters')

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.

Atha Tool Co. (All Kinds), Newark, N. J.

Beall Bros. (Inc.), Alton, Ill.

BLISS, E. W. CO., 19 Adams, Brooklyn,

N. Y. (See adv. index, end of book)

Crescent Novelty Mfg. Co., 703 S B'way, St. Louis, Mo.

Evansville Tool Works, Evansville, Ind.

Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.

Harvey, H. H., 608 Atlantic av., Boston, Mass.

Hubbard & Co., Pittsburg, Pa.

Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.

Isele, A. W. & Son, 51 Pitt, Boston, Mass.

Klein, Logan Co., S 13th & Breed, Pittsburg, Pa.

Mack & Co., Rochester, N. Y.

Maydole, David Hammer Co., Norwich, N. Y.

Plumb, Fayette R. (Inc.), Frankford, Phila, Pa.

Schueddig, F. Son, 525 S Jefferson av, St. Louis, Mo.

Trow & Holden, Barre, Vt.

Vulcan Tool Mfg. Co., Quincy, Mass.

Warner, M. R. & Son, Cromwell, Conn.

Warwood Tool Co., Wheeling, W. Va.

White, L. & I. J. Co., Buffalo, N. Y.

Hammers (Striking)

(See Hammers, Drilling & Striking)

Hammers (Tack & Nail)

Arcade Mfg. Co. (Cast Claw, etc.), Freeport, Ill.

Atha Tool Co., Newark, N. J.

Billings & Spencer (Tack Hammer & Puller Combined), Hartford, Conn.

Braunsdorf-Mueller Co., Elizabeth, N. J.

Chantrell Tool Co. (Cast Iron & Steel), Reading, Pa.

Cheney, Henry, Hammer Co., Little Falls, N. Y.

Denison Mfg. Co. (Tack), Warren, O.

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Evansville Tool Works, Evansville, Ind.

Findlay Axe & Tool Co., Findlay, O.

Franklin Specialty Co. ("Cracker Jack," "Korker," "Winner"), Reading, Pa.

Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.

Hammond, C. & Son, Ogontz, Pa.

Hardware & Woodenware Mfg. Co. ("Brighton" & "L. & S. I. Co."), 693 B'way, New York

Heller Bros. Co., Newark, N. J.

Henry, John T. Mfg. Co., Hamden, Conn.

Humason & Beckley Mfg. Co. ("H. & B." Cast Steel), New Britain, Conn.

Kennedy Mfg. Co. (Magazine Tack, etc.), Easton, Mass.

Killborn & Bishop Co. ("K. & B."), New Haven, Conn.

Landers, Frary & Clark, New Britain, Conn.

Maydole, David Hammer Co. (Nail only), Norwich, N. Y.

New England Specialty Co., North Easton, Mass.

Osborne, C. S. & Co., 96 Mechanic, Newark, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.

Phoenix Hardware Mfg. Co., Homer, N. Y.

Piper Mfg. Co., Winchendon, Mass.

Robertson, Arthur R. (Magnetic), 144 Oliver, Boston, Mass.

Sayre, L. A. Co., Newark, N. J.

Stanley Rule & Level Co., New Britain, Conn.

Stover Mfg. Co. (Cast), Freeport, Ill.

Troy Nickel Works (Jno. E. Gaitley, Prop.) (Alaska, Solid Steel, Full Nickel Plated), Albany, N. Y.

Vaughn & Bushnell Mfg. Co. ("Adze Eye Drop Forged"), Chicago, Ill.

WHITMAN & BARNES MFG. CO. ("W. & B." Nail), Chicago, Ill. (See adv. index & branch offices, end of book)

Williams, A. C. Co., Ravenna, O.

Williams, C. A. & Co., Skowhegan, Me.

Wrightsville Hardware Co., Wrightsville, Pa.

Hammers (Tinnners')

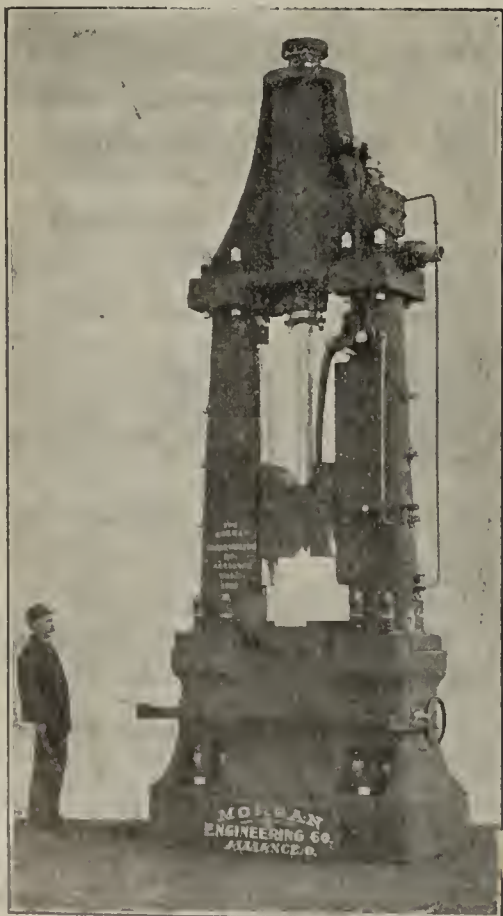
Atha Tool Co., Newark, N. J.

Cheney, Henry, Hammer Co., Little Falls, N.Y.

Evansville Tool Works, Evansville, Ind.

Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.

Maydole, David, Hammer Co., Norwich, N.Y.

**"MORGAN"****HAMMERS**

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DOUBLE STAND

DROP FORGING

AXLE

STEEL TILTING

PLANISHING

BLOOMING

SHEARS - PUNCHES

RIVETTERS

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MACHINES

CRANES

OVERHEAD TRAVELING

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Brussels 52 Rue Du Congres

Hammers (Tire Welding)

(See Tire Welding Machines)

Hammers (Trip)

(See also Hammers, Power)

Crane, W W Foundry & Machine Works (Air Cushman), Auburn, N. Y.
 Diamond Iron Works ("Iron Store Giant"), Minneapolis, Minn.
 Kansas City Trip Hammer Co. ("Hercules," Three Sizes), Kansas City, Kan.
 Kaufman, J. A., Miamisburg, O.
 Macgowan & Finnigan Foundry & Machine Co. ("Perfect"), St. Louis, Mo.
 Mayer Bros. ("New Little Giant" & "The Easy"), Mankato, Minn.
MERRILL BROS., William St., Mass-
peth (Borough of Queens), New York. (See adv. index, end of book)
 Novelty Iron Works ("Boss," for Plow, Wagon & Heavy Work), Dubuque, Iowa

Hammers (Upholsterers')

Arcade Mfg. Co., Freeport, Ill.
 Atha Tool Co., Newark, N. J.
 Dicke Tool Co., Downer's Grove, Ill.
 Bonney Vise & Tool Works (Inc.) (Steel), Allentown, Pa.
 Franklin Specialty Co. ("Franklin"), Reading, Pa.
 Germantown Tool Works, 518 Commerce, Gtn., Phila., Pa.
 Hardware & Woodenware Mfg. Co. ("Brigh-ton"), 693 B'way, New York
 Johnson, William (Heddenberg Works), Newark, N. J.
 Kraeuter & Co., Newark, N. J.
 Osborne, C. S. & Co., Newark, N. J.
 Wrightsville Hardware Co., Wrightsville, Pa.

Hammers (Vacuum)

Williams, White & Co. ("Yeakley"), Moline, Ill.

Hammock Mfrs.

Brayshaw, Jas., North Weymouth, Mass.
 Fowler Net & Twine Co., 107 S 2d, Phila., Pa.
 Gem Hammock & Fly Net Co., Milwaukee, Wis.
 Goodall Hammock Co., Rockfall, Conn.
 Hoffman-Corr Mfg. Co. (Globe-Lion Brand), 55 White, New York
 Hohlfeld Mfg. Co., 8th & Dauphin, Phila., Pa.
 Hough Shade Corporation, Janesville, Wis.
 Kling, Folding Canvas Boat Co., Kalamazoo, Mich.
 La Crosse Hammock Works, La Crosse, Wis.
 Masland, Joseph H., Co., 4819 Gtn av, Phila., Pa.
 Palmer, I. E., Middletown, Conn.
 Patterson Mfg. Co., 2300 N 8th, Philadelphia, Pa.
 Shoyer, D. W. & Co., 394 B'way, New York
SUN MFG. CO ("Sunshine" for Porches, etc.), Columbus, O. (See adv. index, end of book)
 Sun Mfg. Co. ("Sunshine" for Porches, etc.), Columbus, O.
 Thomas, T. B. & Co., Quincy, Mass.
 Travers Bros. Co., 261 B'way, New York
 Western Hammock Co., La Crosse, Wis.
 Weston & Wells Mfg. Co., 1110 Noble, Phila., Pa.

Hammocks (Woven Wire)

Lloyd Mfg. Co., Minneapolis, Minn.

Hampers

(See Baskets, Hampers, Etc.)

Handcuffs

Marlin Fire Arms Co., New Haven, Conn.
 Tower & Lyon Co., Chambers, New York
 Wilkinson Mfg. Co., Binghamton, N. Y.

Hand Grenades

(See Fire Extinguishers)

***Hand Rails (Steel)**

AMERICAN METAL DOOR CO.
 Jamestown, N. Y. (See adv. index, end of book)
DAHLSTROM METALLIC DOOR CO.
 Jamestown, N. Y., & 299 B'way, New York. (See adv. index & branch offices, end of book)

Handcuffs & Twistors

Marlin Fire Arms Co., New Haven, Conn.
 Tower & Lyons Co., 95 Chambers, New York
 Wilkinson Mfg. Co., Binghamton, N. Y.

Handles (Adjustable Auger)

Bonney Vise & Tool Works (Inc.) ("Hayes"), Allentown, Pa.
 Millers Falls Co. ("Rogers," Gun's Ratchet), 28 Warren, New York; Works: Millers Falls, Mass.
 Swan, James, Co. ("Swan's"), Seymour, Conn.

Handles (Agricultural Tool)

Hanover Plow Handle Co. (Oak), Hanover, Pa.
 Harri's Mfg. Co., Johnson City, Tenn.
 Piqua Handle & Mfg. Co., Piqua, O.

Handles (Automobile)

Turner Brass Works, Sycamore, Ill.

Handles (Boiler)

Arcade Mfg. Co., Freeport, Ill.
 Berger Bros. Co., 237 Arch, Phila., Pa.
 Griswold Mfg. Co., Erie, Pa.
 Hardware & Woodenware Mfg. Co., 693 B'way, New York
 Indiana Mfg. Co., Jeffersonville, Ind.
OSBORN MFG. CO. (Rice Plant), New
 Durham, N. H. (See adv. index, end of book)
 Stover Mfg. Co., Freeport, Ill.
 Troy Nickel Works (Jno. E. Galtley, Prop.) (Also Drop Handles, etc.), Albany, N. Y.
 Weller Hdw. & Foundry Co. (Or Milk Can), Horsesheds, N. Y.
 Wrightsville Hdw. Co., Wrightsville, Pa.

Handles (Bone)

Randolph, Wm. C. (Wisk Broom, etc.), 213 Arch, Phila., Pa.
 Rogers & Hubbard Co., Middletown, Conn.
 Wohl, Emil Mfg. Co. (Broom, Brush, etc.), Nicetown, Phila., Pa.

Handles (Brake or Controller)

(See also Wheels, Ratchet Brake)

Adams & Westlake Co., Chicago, Ill.
 Baker, Jno. S. ("Beverly," Ratchet Clutch), Beverly, Mass.
 Brill, J. G., Co. (Brass & Malleable Iron), 62d & Woodland av, Phila., Pa.
 Central Union Brass Co., St. Louis, Mo.
 Columbia Machine Works & Malleable Iron Co. (Adjustable), Brooklyn, N. Y.
 Dayton Mfg. Co. (Killing-Lean & Gravity), Ohio Brass Co., Mansfield, O.
 Sterling-Meaker Co., 420 Ogden, Newark, N.J.

Handles (Canthook & Peavey)

Evert Tool Co. (Ltd.), Evert, Mich.
 Harris Mfg. Co., Johnson City, Tenn.
 Piqua Handle & Mfg. Co., Piqua, O.

Handles (Chest)

Hardware & Woodenware Mfg. Co., 693 B'way, New York
 Penn Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
STANLEY WORKS (Wrought Steel),
 New Britain, Conn. (See adv. index & branch offices, end of book)
 Stearns, E. C. & Co., Syracuse, N. Y.
 Stover Mfg. Co., Freeport, Ill.
 Wrightsville Hardware Co. (Surface), Wrightsville, Pa.

Handles (Circuit Breaker)

(See Handles, Electric Switch)

Handles (Controller Regulating)

Electric Service Supplies Co. ("Durkin Automoloneer"), Phila., Pa.
 Lord Electric Co. ("Cosper"), 213 W 40th, New York

Handles (Die Stock)

National Tube Co. ("Shelby" Seamless Steel), Pittsburgh, Pa.

Handles (Door & Drawer)

(See Pulls, Drawer)

***Handles (Document)**

VOELKNER & HARRY MANUFAC-
 turing Co. (Polished Brass), 125 Woodbridge, W, Detroit, Mich. (See adv. index, end of book)

Handles (Drop Forged Machine)

(See Handles, Machine)

Handles (Electric Switch)

American Enamel Co., Providence, R. I.
 American Vulcanized Fibre Co., Wilmington, Auburn Button Works, Auburn, N. Y.
 Bogert & Hopper, 162 William, N. Y.
 Colebrook Mfg. Co., Winsted, Conn.
 Dickinson Mfg. Co., Springfield, Mass.
 Eby Mfg. Co., Detroit, Mich.
 Ehnborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.
 Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.
 Estes, E. B. & Sons, 74 Warren, New York
 Novelty Turning Co., Norway, Me.
OSBORN MFG. CO. (Rice Plant), New
 Durham, N. H. (See adv. index, end of book)

Ranscher, Jno., 30 W 3d, St. Paul, Minn.
 Scranton Button Co. (Electrold), Scranton, Pa.
 Siemon Hard Rubber Corp., Bridgeport, Conn.
 Stiles, H. A. & Co., Boston, Mass.
 Union Hardware Co., Torrington, Conn.

Handles (File)

Baker, McMillen Co., Akron, O.
 Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
 Champion Tool Co. ("Champion"), Meadville, Pa.
 Indiana Small Handle Works, Fort Wayne, Ind.
NIAGARA HANDLE & FERRULE CO.
 ("Neversplit"), 321 Holliday, Baltimore, Md. (See adv. index, end of book)
 Nicholson File Co., Providence, R. I.
OSBORN MFG. CO. (Rice Plant), New
 Durham, N. H. (See adv. index, end of book)
 Osgood, J. L. ("Osgood" Indestructible Soft Wood), Erie County Bank bldg, Buffalo, Piqua Handle & Mfg. Co., Piqua, O.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Shriver, O. P. & Co. (Malleable Iron, "I-X-L"), 208 Elm, Cincinnati, O.
 Simonds File Co., Fitchburg, Mass.
 Stearns, E. C. & Co., Syracuse, N. Y.

Handles (Hammer)

Graves, E. W. (Hickory), Des Arc, Mo.
HARRISON SUPPLY CO. (Connecti-
 cut Hickory), 5 & 7 Dorchester av Extension, Boston, Mass. (See adv. index, end of book)
 Piqua Handle & Mfg. Co., Piqua, O.

Handles (Hickory)

(See also Handles, Wood)

Acme Handle Co., Merchants, Laclede bldg., St. Louis, Mo.
 Blackstone Hand-shaved Handle Co., Blackstone, Central Mfg. Co., Kansas City, Mo.
 Consolidated Handle Co., Tullahoma, Tenn.
 Eldon Handle Co., Meta, Mo.
 Frankfort Handle Mfg. Co., Frankfort, Ind.
 Galax Handle Works (Ltd.), Galax, Va.
 Graves, E. W. (Axe, Pick, Hatchet, Sledge, etc.), Des Arc, Mo.
 Hardwood Specialty Co., Memphis, Tenn.
 Hartwell Bros., Chicago Heights, Ill.
 Ivory Handle Co., Hope, Ark.
 Kile Mfg. Co. (Hammer, Hatchet & Tool), Akron, O.
 Payne, J. N. & Son, Morgantown, N. C.
 Pontiac Turning Co., Pontiac, Mich.
 Rock River Mfg. Co., Dixon, Ill.
 Rogers-Meiser Handle Co., Paragould, Ark.
 Standard Handle Co., Knoxville, Tenn.
 Star Ranch & Land Co., Neeleyville, Mo.
 Strock, L. W. & Co., Bethlehem, Pa.
 Turner, Day & Woodworth Co., Louisville, Ky.
 Piqua Handle Co., Johnson City, Tenn.
 Warren Handle Works (All Kinds), Warren, Ohio
 Wauseon Handle & Lumber Co. (All Kinds), Wauseon, Mo.

***Handles (Insulated)**

AMERICAN VULCANIZED FIBRE CO. (Hard Fibre), Wilmington, Del. (See adv. index, end of book)
DELAWARE HARD FIBRE CO. (Hard Fibre), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere, Del. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY CO. (Hard Fibre), Wilmington, Del. (See adv. index, end of book)

Handles (Leather)

Buffalo Specialty Co. (Tool), 375 Ellicott, Buffalo, N. Y.
 Kelton-Bruce Mfg. Co. (Trunk, Suit & Sample Case, etc.), Salem, Mass.
 Nott, W. S. Co. (Trunk, etc.), Minneapolis, Minn.

Handles (Machine)

Billings & Spencer Co., Hartford, Conn.
 Cincinnati Ball Crank Co. (Steel), Cincinnati, Ohio
 Keystone Drop Forge Works (Drop Forged), Chester, Pa.
 New Britain Hardware Mfg. Co., New Britain, Conn.
PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
 Rochester Drop Forge Co. (Finished), Rochester, N. Y.
 Transue & Williams Co., Alliance, O. (book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. & 111 Chambers, New York. (See adv. index & branch offices, end of book)
 Williams, J. H. & Co., 150 Hamilton, Brooklyn, N. Y.
 Wilcox, D. Mfg. Co., Mechanicsburg, Pa.

Handles (Microphone)

Scranton Button Co. (Corrugated Desk or Microphone), Scranton, Pa.

Handles (Rasp)

(See Handles, File)

Handles (Ratchet)

Lord, L. L. Co. ("Lord"), Meadville, Pa.

Handles (Ratchet Brake)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
 Beverly Engine & Machine Co., Beverly, Mass.
 Brill, J. G. Co., 62d & Woodland av, Philadelphia, Pa.
 Burns, Silver & Co., Bridgeport, Conn.
 Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
 Ohio Brass Co., Mansfield, O.

Handles (Saw)

Algood Mfg. Co. (Cross-Cut), Algood, Tenn.
 Ely, T. J. Mfg. Co. (Cross Cut), Girard, Pa.
 Indiana Small Handle Works, Fort Wayne, Ind.

Handles (Screw Driver)

Baker, McMillen Co., Akron, O.
 Piqua Handle & Mfg. Co. (Wooden), Piqua, O.
 Tuck Mfg. Co., Brockton, Mass.

Handles (Soldering Iron)

Baker, McMillen Co. (Wood), Akron, O.
 Piqua Handle & Mfg. Co. (Wooden), Piqua, O.
 Troy Nickel Works (Jno. E. Galtley, Prop.), Alaska Wire, Albany, N. Y.

***Handles (Tool)**

(See also Handles, Various Kinds)

PITTSBURGH GAGE & SUPPLY CO. ("Best-Of-All"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

***Handles (Tub)**

STANLEY WORKS (Wrought Curved Plate), New Britain, Conn. (See adv. index & branch offices, end of book)

Handles (Valve)

Eby Mfg. Co. (Wooden), Detroit, Mich.
 Galtley, Jno. E. (Troy Nickel Works) (Alaska Wire), Albany, N. Y.
 Indiana Small Handle Works (Wood), Fort Wayne, Ind.
 Piqua Handle & Mfg. Co. (Wooden), Piqua, O.

***Handles (Window & Shutter)**

STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)

Handles (Wood)

(This is not a complete list of Handle Manufacturers; It is published for purchasing purposes. See also subdivisions of this trade)

ALABAMA.

HUNTSVILLE—Henderson, Murphree & Henderson
 UNION SPRINGS—Caldwell, S. J.

ARKANSAS.

DELAPLAIN—Newell & Herwegh
 FAYETTEVILLE—Charlesworth, Wm. Handle Co.
 FRISCO—Russell, S.
 HOPE—Ivory Handle Co. (Hickory)
 JONESBORO—American Handle Co. (Hickory)
 LITTLE ROCK—Little Rock Hoop Co.
 RECTOR—Hickory Handle Co. (Hickory)
 SUCCESS—Success Handle Co.
 PARAGOULD—Paragould Handle Mfg. Co.
 Rogers-Melser Handle Co. (Axe, Cant Hook, Pick, Sledge, Hickory, etc.)

CONNECTICUT.

BRISTOL—Hart, W. L. (Tool, etc.)
 Mills, Dwight E.
 CLINTON—Kelsey, Horatio (Axe, Pick, Small Tools, etc.)
 DEEP RIVER—Williams & Marvin Mfg. Co. (Auger, Wrench, Ice Pick, etc.)
 EASTFORD—Kelth, J. M. (File, Chisel, etc.)
 Tatem, J. M. (Pick & Sledge)
 LITCHFIELD—Bigelow Bros.
 PINE MEADOW—Chapin-Stephens Co. (Plane, Saw, Chisel & File)
 PUTNAM—Tatem, J. B. & Son (Chisel, Lawn Mower, Leather Capped)
 SALISBURY—Sallsbury Cutlery Handle Co. (Cutlery)
 SEYMOUR—Swan Jas. Co. (Auger, Bit, Chisel)
 TORRINGTON—Union Hardware Co.

GEORGIA.

ATLANTA—Atlanta Woodenware Co. (Axe, Broom, etc.)
 BEECH HILL—Ivey, H. J. (Pick & Sledge)
 ROME—Towers & Sullivan Mfg. Co. (Plane)

ILLINOIS.

CAIRO—Clark-Danforth Handle Co.
 CHICAGO HEIGHTS—Hartwell Bros. (Inc.) (Hickory, Hand Made & also "Chlephant")
 "Axeman's Pride"
 FLORA—Meyer, A. H. & Sons (Axe, etc.)

INDIANA.

ALBANY—Griffith, Geo. V. & Son
 AUBURN—Vanglin, R. W. & Co.
 BLUFFTON—Buck, J. M.
 COLUMBUS—Columbus Handle & Tool Co.
 CORUNNA—Reynolds Bros.
 EVANSVILLE—Globe Handle Co.
 FORT WAYNE—Indiana Small Handle Works
 FRANKFORT—Frankfort Handle Mfg. Co.
 INDIANAPOLIS—Atkins, E. C. & Co. (Cross Cut Saw)
 Udell Works (Brush, Duster, etc.)
 LOGANSPOUT—Hillock & Pltman (All Kinds)
 MARION—Marion Handle & Mfg. Co.
 MONTPELIER—Jackson Shovel & Tool Co. (Shovel, Spade, etc.)
 NEW ALBANY—Force, L. F. Handle Co.
 NEWCASTLE—Jennings, S. P.
 Newcastle D Handle Co.
 NEW HAVEN—Schultker, A. R. & Son
 Sperry Mfg. Co.
 RICHMOND—Richmond Handle Co. (Fork, Shovel, Spade, etc.)
 UNION CITY—Clark, A. L.
 VEEDERSBURG—Veedersburg Handle Co.
 VINCENNES—Indiana Handle Co.
 WINCHESTER—Boltz, B. F. Mfg. Co.

IOWA.

FORT MADISON—Iowa Farming Tool Co. (Fork, Shovel, Spade, etc.)
 MILTON—Milton Mfg. Co. (Axe)
 OTTUMWA—Lindsey Mfg. Co.
 STOCKPORT—Stockport Handle Co.
 WEST POINT—Cantrill Handle Mfg. Co. (Pick & Sledge)

KANSAS.

ATCHISON—Jackson, T. E. Woodenware Co.

KENTUCKY.

HICKMAN—Tyler, R. T.
 LOUISVILLE—Turner, Day & Woolworth Handle Co. (Axe, Pick, Sledge, Hammer, Hatchet & Mining Tool)

MAINE.

AUGUSTA—Harvey, H. H. Handle Co. (Hammer Pick, Sledge, etc.)
 DIXFIELD—Stowell, N. S. Spool & Wood Turning Co. (Small Tools, etc.)
 EAST HIRAM—Flint & Burnell (Axe)
 Lombard, H. C. (Axe)
 FREEDOM—Freedom Lumber Co.
 FRYEBURG—Cook, A. W. (Chisel, etc.)
 GARDINER—Oakland Mfg. Co. (Broom)
 HIRAM—Cotton, Lemuel & Son (Axe, etc.)
 LEWISTON—Lewiston Handle Co. (Shovel, Spade, etc.)
 NORWAY—Novelty Turning Co. (Knife, File, Small Tool, Lather & Stencil Brush, etc.)
 ROXBURY—Swain & Reed
 STRATTON—Stratton Mfg. Co. (Turned Wood)

MARYLAND.

BALTIMORE — **NIAGARA HANDLE & Ferrule Co.** ("Neversplit"), 321 Holliday. (See adv. index, end of book)

MASSACHUSETTS.

ASHFIELD—Thayer & Harmon (Bit Brace Heads & Handles, Wrench)
 BOSTON—Ames Shovel & Tool Co., Ames bldg
 Harvey, H. H. (Hammer, Pick, Sledge, etc.)
 Stiles, H. A. & Co. (Tool, Valve, etc.), 176 Federal
 CAMBRIDGE—Standard Turning Works
 FITCHBURG—Brown, Lyman
 Cushing, S. G., 29 Newton pl
 Mossman, Jerome
 Simonds File Co. (File)
 Smith, F. J. & Co.
 GREENFIELD—Rugg Mfg. Co. (Rake)
 SPRUCE CORNER—Thayer, Geo. A. (All Kinds of Tool Handles, Gauge Cocks & Radiator Valve Handles)
 WEST CHESTERFIELD—Healy's, S. A. Sons (Plane & Saw)
 WEST MILLBURY—Glover, H. W.

MICHIGAN.

ADRIAN—Cherry, J. M.
 BAGNALL—Bagnall Handle Co. (Brown)
 BIRMINGHAM—Nichols, Walter (Broom, etc.)
 BELLAIRE—Richardl & Becktold
 BRUTUS—Hinkley, D. H.
 CADILLAC—Cadillac Handle Co. (Broom, Torch, etc.)
 CENTRAL LAKE—Cameron Lumber Co.
 COLDWATER—Hellenberg & Son (Mallet, Rammer, etc.)
 DETROIT—Prince Handle Mfg. Co. (Hand Shaved & Machine Made Tools, etc.)
 ESCANABA—Escanaba Mfg. Co. (Broom Mop)
 EVART—Champion Tool & Handle Co.
 Davy & Co.
 Evart Tool Co. (Tool, etc.)
 FREEPORT—Cheesebrough, Job (Rake)
 GALIEN—Montross, R. W. (Iluy, Fork, Broom, Hoe, Rake, Shovel, Spade, Scoop, etc.)
 GRAND RAPIDS—American Handle Co.
 LUDINGTON—Handy Things Co. (Brush, Duster, Small Tool, etc.)
 LYONS—Lyons Handle Co.
 MESICK—Tripp, L. J. (Broom)
 NADEAU—Nadeau Bros.
 NEWAYGO—Rowe, Henry Mfg. Co. (Turned)
 ONAWAY—Lobdell & Churchill Mfg. Co. (Broom Handles)
 OWOSSO—Wood, M. & Co.
 PONTIAC—Pontiac Turning Co. (Hickory)
 TOWER—Strutton, De Forest A. (Broom Handles & Turned Wood)
 VANDERBILT—Olds & Hixon (Broom)
 YPSILANTI—Dickerson, C. W. (Pick & Sledge)

“NEVERSPLIT” TOOL HANDLE



¶ As the name implies this handle does not split and is practically indestructible, the FERRULE being made of PRESSED STEEL.

¶ The peculiar shape permits driving the file or other tool firmly into the handle centering itself perfectly, where it is held rigidly, doing away with the necessity of tapping the tool back into place every now and then as it cannot work loose.

¶ Owing to the length and strength of the FERRULE the workman is free from risk of accident, and saves the cost of the handle in the time required renewing the old style handles.

¶ The NEVERSPLIT tool handle will outlast a dozen or more of the ordinary handles, and this not only makes it the BEST but the CHEAPEST handle on the market.

PRICE LIST

No. 1—4½ inches long, for	4 to 6-inch Files, per gross	\$ 7.50
No. 2—4½ “ “	6 to 8-inch “ “	8.00
No. 3—5 “ “	8 to 10-inch “ “	8.50
No. 4—5½ “ “	10 to 14-inch “ “	9.50
No. 5—6½ “ “	14 to 20-inch “ “	10.50

MANUFACTURED BY

NIAGARA HANDLE & FERRULE CO.

321 N. Holliday St., BALTIMORE, MD.

USED BY

BUFFALO, N. Y.
Geo. N. Pierce Co.
American Radiator Co.
Snow Steam Pump Co.
E. R. Thomas Motor Co.
General Railway Signal Co.

ROCHESTER, N. Y.
Stromberg-Carlson Telephone Mfg. Co.

PITTTBURG, PA.
Westinghouse Electrical & Mfg. Co.

MADISON, WIS.
Northern Electrical Mfg. Co.

TRENTON, N. J.
John A. Roebling's Sons Co.

TOLEDO, OHIO
Pope Motor Car Co.

NEW YORK, N. Y.
International Steam Pump Co.

NEW BRITAIN, CONN.
American Hardware Corp.

SYRACUSE, N. Y.
Pierce, Butler & Pierce Mfg. Co.
H. H. Franklin Mfg. Co.
Smith-Premier Typewriter Co.

DEPEW, N. Y.
Gould Coupler Co.

WASHINGTON, D. C.
U. S. Navy Yard

QUINCY, MASS.
Fore River Shipbuilding Co.

PROVIDENCE, R. I.
Brown & Sharpe Mfg. Co.

SAN FRANCISCO, CAL.
Union Iron Works Co.

CLEVELAND, OHIO
Wellman-Seaver-Morgan Co.
American Steel and Wire Co.

BATH, ME.
Bath Iron Works

AND HUNDREDS OF OTHERS

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IF YOU ARE IN DOUBT AS TO THE
ORIGINAL MANUFACTURER OF
ANY MACHINE OR TOOL ON WHICH
THE PATENTS HAVE EXPIRED, THAT
ARE NOW BEING EXPLOITED BY MANY
MAKERS, ASK HENDRICKS.

C O M M E R C I A L

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IT IS NOT A CATALOG OF ADVER-
TISERS ALONE, BUT A COM-
PLETE REGISTER OF THE MANU-
FACTURERS AND JOBBERS IN EVERY
LINE OF TRADE THAT COMES WITHIN
THE SCOPE OF THE WORK.

R E G I S T E R

MINNESOTA.

BEMIDJI—Bemidji Handle Co.
MINNEAPOLIS—Curtis & Yale Co. (Carpet Beater, Egg Beater, etc.), Security Bank bldg.

MISSISSIPPI.

OKOLONA—Alert Handle Co.

MISSOURI.

CAMPBELL—Campbell Handle Co.
CARUTHERSVILLE—Peattie Handle Co. (Hickory, Fork, etc.)
DES ARC—Graves, E. W. (Hickory, Axe, Pick, Sledge, Hatchet, Hammer, etc.)
DEXTER—I. N. L. Handle Mfg. Co. (Pick & Sledge)
HOUGLI—Brake Handle Co. (Broom, Shovel, Spade, Scoop, Fork, "D" & "D" Stem, etc.)
KANSAS CITY—Central Mfg. Co. (Hickory)
MALDEN—U. S. Cooperage & Handle Co.
MEMPHIS—North Missouri Handle Co. (Rces Bros. Mfg. Co.)
NEELEYVILLE—Star Ranch & Land Co. (Hickory)
POINT PLEASANT—Davis, W. E.
POPLAR BLUFF—Hanna & Young Handle Co. (Hickory, Fork, etc.)
PUXICO—Fulkerson Bros. Handle Co.
ST. LOUIS—Acme Handle Co. (Hickory, Axe, Hammer, Hatchet, Sledge, etc.), Merchants-Laclede Bldg.
Keller & Tamm Mfg. Co. (Axe, etc.), Main & Victor
Zelnicker, Walter A. Supply Co. (Hand Shaved, Hickory, Axe, Maul, etc.), 408 N. 4th
WYACONDA—Morgan Mfg. Co. (Axe, Pick, Sledge, Maul, Hammer, Hatchet, etc.)

NEW HAMPSHIRE.

KEENE—Ellis, Austin A. (Brush)
Pierce, F. B. Corp. (Brush)
MANCHESTER—Piper, B. H. Co. (Axe, etc.)
MILFORD—Pierce, W. E. & Co.
NEW DURHAM—Osborne Mfg. Co. (Brush Enamelled & Plain, etc.)
NORTH WEARE—Flanders Hardware Co.
WOLFEBORO FALLS—Berry, O. P. Co.

NEW JERSEY.

NEWARK—Sommer's, John Son
PATERSON—Hopper, Wm. E. (Special, to Order)

NEW YORK.

AMSTERDAM—American Broom & Brush Co. (Broom)
Amsterdam Broom Co. (Broom & Mop)
BLEEKER—Ellis & Smith (Broom)
Peter's, John M. Sons
BRASHER FALLS—Hulberg, S. W. (Broom)
BUFFALO—Osgood, J. L. ("Osgood" Indestructible File & Tool), Erie Co. B'k Bldg.
Tindle & Jackson (Broom)
NEW YORK—Addams, W. H., 127 Franklin
American Fork & Hose Co. (Fork, Rake, Hoe, Shovel, Spade, etc.), 11 B'way
American Wood Working Co., 108 Fulton
Carpenter & Bayles (Wholesale), 91 Chambers
Chapin-Stephens Co., 126 Chambers
Delapierre, Arthur (Inc.), 19 Warren
Estes, E. B. & Sons (All Kinds of Small), 74 Warren
Ives, W. A. Mfg. Co. (Auger), 299 B'way
N. Y. Mallet & Handle Works, 743 E 11th
Standard Handle Co., 133 Roosevelt

NORTH CAROLINA.

BARNARD—French Broad Mfg. Co. (Pick)
CONOVER—Huusucker, J. (Pick)

OHIO.

AKRON—Baker-McMillan Co. (Screw Driver, File, Duster, Small Tool)
Kile Mfg. Co. (Hickory Hammer, Hatchet & Toy)
ATTICA—Winchester, D. Handle Co.
BROADWAY—Goff, W. H.
BUTLER—Richland Handle Co.
CALDWELL—Burkhart, J. & Son
CANTON—Reinhart Varieties Co. (To Order)
CLEVELAND—American Fork & Hoe Co. (Fork, Rake, Hoe, Shovel, Spade, etc.)
National Handle Co. (Broom, Fork, Hoe, Rake, Spade, etc.)
COLUMBIANA—Columbiana Handle Works
COLUMBUS—Ohio Tool Co. (Chisel, File, Plane, Auger, etc.)
COLUMBUS GROVE—Jones, J. F. Sons (Sledge)
DAYTON—Dayton D Handle Co. ("D")

EATON—Hestand & Co.
EDON—Sheline, E. R. & Son
HICKSVILLE—Crook, Son, & Co.
Fish & W. A. Miller
Miller Mfg. Co.
KENTON—Young, J. W.
LIMA—Selfridge, O. B. Co.
LOUDONVILLE—Loudonville Handle Co.
MONROEVILLE—Yingling Bros. & Co.
NEW BREMEN—Buckeye Handle & Lumber Co.
Clark, Benj. & Co.
NORWALK—McCrillis Handle Co. (Pick)
PIONEER—Carr, Lewis
PIQUA—Piqua Handle & Mfg. Co. (Garden Rake, Fork, Hoe, Chisel, File, Auger, Screw Driver, etc.)
SANDUSKY—Sandusky Tool Co. (Saw, Plane, File, Chisel, Awl, Auger, Cross-Cut Saw, etc.)
SHENANDOAH—McClun, A.
SIDNEY—Benjamin, C. R. & Son
SPENCERVILLE—Reynolds, W. A. Lumber Co.
WAPAKONETA—Standard Churn Co. (Hlay, Rake, Hoe & Broom)
WARREN—Parsons, R. F. (Hickory)
WASHINGTON C. H.—Washington Handle Co.
Washington Mfg. Co.
WAUSEON—Wauseon Handle & Lumber Co. (Shovel, Spade, Fork, Hoe, Rake, Mop, Broom, etc.)
XENIA—Xenia Handle Co. (Shovel, etc.)

PENNSYLVANIA.

BEDFORD—McLaughlin, J. L. & Son (Axe)
BETHLEHEM—Strock, L. W. & Co.
Corry—Maile, C. A. & Son (Ltd.) (For Small Tools)
CORYDON—Keystone Handle Co.
ELDRED—Prouty, C. & Co. (Cross-Cut, Cant Hook, etc.)
ERIE—Erie City Mfg. Co. ("Arrow," Cross-Cut Saw, Mop)
GIRARD—Ely, Theo. J. Mfg. Co. (Cross Cut Saw, etc.)
HANOVER—Hanover Plow Handle Co.
HOWARD—Howard Handle & Spoke Co.
KANE—Holgate Bros Co. (Brush & Artist, etc.)
KINZUA—Sheldon Handle Co.
LAKE COMO—Williams, H. A.
LEECHBURG—Pittsburg Shovel Co. (See Pittsburg)
MANOR—Beamer Handle Co. (Hickory)
Manor Handle Works
MOUNTAIN EAGLE—Leathers, Earl H.
NORRISTOWN—Brusher, J. B. (Axe)
PASSER—Hottel, Benjamin
PICTURE ROCKS—Handle & Excelsior Co.
PITTSBURG—Curtis & Yale Co. (Carpet Beater, Egg Beater, etc.), Arrott bldg.
Pittsburg Shovel Co. (Pick, Axe, Cant Hook, etc.)
QUAKERTOWN—Landis, S. H., & Bro.
TITUSVILLE—Titusville Handle Co.
TOWNVILLE—Marsh & Allen (Broom)
UNION CITY—Caillsch, Fred. (Pick & Sledge)
Clark, Daniel & Son (Shovel)
Novelty Wood Works Co. (Small Tool)
Westcott, J. D. & Son
WARREN—Peterson, Sam'l (Axe, Pick, Hammer, Sledge, Mining, etc.)

RHODE ISLAND.

PAWTUCKET—Narragansett Machine Co.

SOUTH DAKOTA.

SIOUX FALLS—Sioux Falls Plow Co.

TENNESSEE.

BAXTER—Isbell, J. A.
COOKEVILLE—Gregory, T. J., Handle Co.
DICKSON—Leathers, A. H., Handle Co.
ERIN—Gang, Conrad D. (Axe, etc.)
Guadwin, L. P. (Axe, etc.)
McCanley, C. E. & Co. (Axe, etc.)
HARRIMAN—Harriman Mfg. Co.
JOHNSON CITY—Harris Mfg. Co. (Plow)
Unaka Lumber Co. (Axe, Hammer, Hickory)
KNOXVILLE—Standard Handle Co. (Ltd.) (Hickory)
LAWRENCEBURG—Wylle, A. P., Mfg. Co. (etc.)
MEMPHIS—Brown, Hhman & Huntingdon Co. Consolidated Handle Co.
Hardwood Specialty Co. (Hickory)
Hartzell Handle Co.
NASHVILLE—Nashville Spoke & Handle Co. (Axe, Chisel, Pick, Sledge, Farming Tool, SEWATCHEE—Sewatchie Handle Works
TULLAHOMA—Campbell, M. R.
Campbell & Dann Mfg. Co. (Inc.) (File & Chisel Handles in the White)

TEXAS.

TIMPSON—Timpson Handle Co.

VERMONT.

BELLOWS FALLS—Derby & Ball (Fork, Scythe Snaths, etc.)
BURLINGTON—Vermont Shade Roller Co. (Mop)
EAST ARLINGTON—Judson Mfg. Co., (Kitchen Knife, Brush, etc.)

VIRGINIA.

BLACKSTONE—Blackstone Handshaved Handle
COLUMBIA—Willard, T. R. Co. (Hickory)
EAST BARNEET—Roy Bros.
FARMVILLE—Farmville Mfg. Co. (Plow)
FRONT ROYAL—Stoessel, Carl, & Co.
GALAX—Galax Handle Works (Ltd.) (Hickory Axe, Pick & Sledge, etc.)
MANCHESTER—Brulser, E. C. & Sons
MARION—Look & Lincoln (Plow)
MIDDLETOWN SPRINGS—Gray, F. E.
ROUND HILL—Blne Ridge Handle Co.
TOWNSHEND—Willard, C. H.

WEST VIRGINIA.

AVOCA—Riitter, C. L. Lumber Co.
BERKELEY SPRINGS—Crossfield, W.

WISCONSIN.

CAMERON—Oak Grove Handle Co.
MILWAUKEE—Curtis & Yale Co. (Carpet Beater, Egg Beater, etc.), Loan & Trust bldg.
OSHKOSH—Oshkosh Tool Mfg. Co. (Axe, Sledge, Saw, etc.)
TWO RIVERS—Two Rivers woodenware Co. (Pail, etc.)
WAUSAU—Curtis & Yale Co. (Carpet Beater, Egg Beater, etc.)

Handles (Wood, Fork, Shovel & Spade)

(See also Handles, Wood)

Alexander & Perkins (Fork), Sunapee, N. H.
American Fork & Hoe Co., American Trust bldg., Cleveland, Ohio
Ames Shovel & Tool Co., Ames bldg., Boston, Mass.
Brake Handle Co. Hough, Mo.
Derby & Ball (Fork), Bellows Falls, Vt.
Iowa Farming Tool Co., Ft. Madison, Iowa.
Jackson Shovel & Tool Co., Montpelier, Ind.
Lewiston Handle Co. (Shovel & Spade), Lewiston, Me.
Marion Handle & Mfg. Co., Marion, Ind.
Montross, R. W., Gullen, Mich.
National Handle Co., Cleveland, Ohio.
Peattie Handle Co. (Fork), Caruthersville, Mo.
Piqua Handle & Mfg. Co., Piqua, Ohio.
Richmond Handle Co. (Shovel & Spade), Richmond, Ind.
Standard Churn Co. (Fork), Wapakoneta, Ohio.
Wauseon Handle & Mfg. Co. (Fork, Shovel, Spade, etc.), Wauseon, Ohio

Handles (Wood, Pick & Sledge)

(See also Handles, Wood)

Acme Handle Co., Merchants-Laclede bldg., St. Louis, Mo.
Berry, O. P. Co., Wolfboro Falls, N. H.
Caillsch, Fred., Union City, Pa.
Cantrill Handle Mfg. Co., West Point, Iowa.
Clark, E. D. & Bro., Milford, Conn.
Dickinson, C. W., Ypsilanti, Mich.
Frankfort Handle Mfg. Co., Frankfort, Ind.
French Broad Mfg. Co. (Pick), Barnard, N. C.
Fulkerson Bros. Handle Co. (Sledge), Puxico, Mo.
Galax Handle Works, Galax, Va.
Graves, E. W. (Hickory, also Axe, Hammer, etc.), Des Arc, Mo.
Hartigan, Wm. R., Collinsville, Conn.
Hartwell Bros., Chicago Heights, Ill.
Hartwell Mfg. Co., Huntingburg, Ind.
Harvey, H. H. Handle Co., Augusta, Me.
Huusucker, J. (Pick), Conover, N. C.
Ivey, H. J., Beech Hill, Ga.
L. X. L. Handle Co., Dexter, Mo.
Jones, J. F. Sons (Sledge), Columbus Grove, O.
Kelsey, Horatio (Pick), Clinton, Conn.
Lakeman, E. P. (Sledge), Ashridge, Ala.
Lewiston Handle Co. (Sledge), Lewiston, Me.
McCrillis Handle Co., Norwalk, Ohio.
Nashville Spoke & Handle Co., Nashville, Tenn.
Payne, J. N. & Son (Sledge), Morganton, N. C.
Peterson, Samuel (Pick), Warren, Pa.
Prouty, C. & Co. (Sledge), Eldred, Pa.
Rogers-Melser Handle Co., Paragould, Ark.
Sandusky Axe Handle Co., Sandusky, Ohio.
Standard Handle Co., Knoxville, Tenn.
Tatam, John M., Eastport, Conn.
Turner, Day & Woolworth Handle Co., Louisville, Ky.
Union City Handle Co., Union City, Pa.
Warren Handle Works, Warren, O.

Hangers (Arc Lamp)

(See Insulators, Arc Lamp)

Hangers (Ball & Roller Bearing)

(See Hangers, Roller & Ball Bearing)

Hangers (Concrete)

Bergen Iron Works (Inc.), 135 51st, Brooklyn, N. Y.
 Duplex Hanger Co. ("Duplex"), Cleveland, O.
 Mulvey, Chas. Mfg. Co. (Block Joist), 1331 35th, Chicago, Ill.
 Perkus & Howland, 217 Worthington, Springfield, Mass.

Hangers (Conductor Pipe)

(See also Hangers, Eave Trough)

Iwan Bros. (Wire), South Bend, Ind.
MILWAUKEE CORRUGATING CO., Milwaukee, Wls. (See adv. index & branch offices, end of book)

Hangers (Conduit)

Chase-Shawmut Co. ("Shawmut"), Newburyport, Mass.
 United Marine Mfg. & Supply Co., 100 William, New York

Hangers (Cycle)

Lane Bros. Co., Poughkeepsie, N. Y.
 Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.

Hangers (Eave-Trough)

Ambro, E. A. ("The Chautauqua"), Mayville, N. Y.
 American Rolling Mill Co., Middletown, O.
 Baker, J. R. & Sons Co., Kendallville, Ind.
 Berger Bros. Co., 237 Arch, Phila., Pa.
 Berger, L. D., 59 N 2d, Phila., Pa.
BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
BOSTWICK STEEL LATH CO., Niles O. (See adv. index, end of book)
 Cambridge Roofing Co., Cambridge, O.
 Canton Art Metal Co., Canton, O.
CANTON MFG. CO., Canton, O. (See adv. index, end of book)
 Clark, Quilen & Morse, Peoria, Ill.
EDWARDS MFG. CO., 545-565 Eggleston av., Cicuiunatl, O. (See adv. index, end of book)
 Eller Mfg. Co., Canton, O.
 Excelsior Steel Furnace Co., Chicago, Ill.
FRIEDLEY-VOSHARDT CO. (Inc.) ("Bell's" Adjustable), 194 Mather, Chicago, Ill. (See adv. index, end of book)
 Gray, R. H. ("Champion"), Columbia, Mo.
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
 Horan Stay Hanger Co., Louisville, Ky.
 Indianapolis Steel Roofing & Corrugating Co., Indianapolis, Ind.
 Joliet Mfg. Co., Joliet, Ill.

MILWAUKEE CORRUGATING CO.

Milwaukee, Wls. (See adv. index & branch offices, end of book)
 Reeves Mfg. Co. ("Dover"), Canal Dover, O.
 Wheeling Corrugating Co., (Eave Trough & Conductor Pipe Fittings), Wheeling, W. Va.
 Wusterbarth Bros., Meriden, Conn.

Hangers (Electric Cable)

American Twist Drill Co. ("Union"), Laconia, N. H.
ANDERSON FORGE & MACHINE CO. (Manhole Cable), 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Appleton Elec. Co., 224 Washington, Chicago, Ill.
 Blissell, F. Co., Toledo, O.
 Cameron Appliance Co. ("Locke"), Everett, Mass.
 Chase-Shawmut Co. ("Boston," "Marlin"), Newburyport, Mass.
 Chicago Nut Co., 172 S Clinton, Chicago, Ill.
 Condit Electrical Mfg. Co. ("Marlin"), 76 Battery March, Boston, Mass.
 Cook, Frank B., 240 W Lake, Chicago, Ill.
 Copeland, H. P. ("H-P"), 127 Franklin, New York
 Diamond Expansion Bolt Co. ("Long Saut"), 90 West, New York
 Electric Service Supplies Co., 1020 Filbert, Phila., Pa.
 Hallett Iron Works, 96 W Polk, Chicago, Ill.
 Harvard Elec. Co., 60 W Van Buren, Chicago, Ill.
 Hubbard & Co. ("Forest City"), Pittsburg, Pa.
 Lanz, M., & Sons, 101 S 29th, Pittsburg, Pa.
 Mineralac Co., Monadnock bldg., Chicago, Ill.
MORSE, FRANK W. ("Morse Eureka," for Interior & Exterior Use), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)
 Mountain State Electrical Co. ("Hall"), Wheeling, W. Va.
 Nagel, W. G., Elec. Co. ("Pierce," "Swisher"), Toledo, O.
 National Telephone Supply Co. ("Universal"), Cleveland, O.
 New Haven Novelty Machine Co., New Haven, Conn.
 Norton Tool Co. ("Little Giant"), West Park, Ohio
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pettigell-Andrews Co. ("O'Neill"), Boston, Mass.
 Pierce Specialty Co., Elkhart, Ind.
 Rhode Island Telephone & Electric Co. ("Wright"), Providence, R. I.
 Standard Underground Cable Co., Westinghouse bldg., Pittsburg, Pa.
STAR EXPANSION BOLT CO. ("Star"), 2d & Trask av, Bayonne, N. J. (See adv. index & branch offices, end of book)
 Vot-Berger Co., La Crosse, Wls.
 Western Electric Co., 239 S Clinton, Chicago, Ill., & 57 Bethune, N. Y.
 Yonkers Specialty Co., Yonkers, N. Y.

Hangers (Garment)

Andrews Wire & Iron Works ("Androck"), Rockford, Ill.
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill.
 Beatty Stamping Co. ("The Tourist," Sectional), Cleveland, O.

Brager, B. (Combination), 102 Walker, New York
 Caldwell Mfg. Co., Rochester, N. Y.
 Chicago Form Co., 115 Franklin, Chicago, Ill.
 Dawson, J. R. Mfg. Co., 1520 N Palethorp, Phila., Pa.
 Forsyth Mfg. Co. ("Eureka" Coat & Garment), Buffalo, N. Y.
 Gibbs Mfg. Co., Canton, O.
 Gihl, E. B. Mfg. Co. (Coat), 21 Quincy, Chicago, Ill.
 Hall & Carpenter, 518 Race, Philadelphia, Pa.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Heiumann-Miller Mfg. Co. ("Missing Link"), 1404 Washington av, St. Louis, Mo.
 Hutchins, C. K. Co., Buffalo, N. Y.
 Koenig, M. F., Hazelton, Pa.
 Lewald, F. & Co. ("Itsoczie"), 135 Adams, Chicago, Ill.
 Meichlor Bros. Furniture Co., 6 Dayton, Chicago, Ill.
 National Mfg. Co., Worcester, Mass.
 Norwlich Nickel & Brass Co., Norwlich, Conn.
 Pullman Mfg. Co. (Rods & Loops), Rochester, N. Y.
 Rocky Hill Hardware Co., Rocky Hill, Conn.
 Taplin Mfg. Co. ("Victor"), New Britain, Conn.
 Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
 West Lafayette Mfg. Co. (Coat), West Lafayette, Ind.
 Wire Goods Co., Worcester, Mass.
WRIGHT WIRE CO. (And Coat), Worcester, Mass.

Hangers (Hinge & Rail)

Grabler Mfg. Co. (Forged, etc.), Cleveland, O.
 Myers, F. E., & Bro., Ashland, O.

Hangers (Joist)

American Iron & Steel Mfg. Co., Lebanon & Reading, Pa.
 Bergen Iron Works (Inc.), 135 51st, Brooklyn, N. Y.
 Boonton Iron & Steel Co., Boonton, N. J.
 Chicago Builders' Specialties Co., 138 Washington, Chicago, Ill.
 Clark, W. J. Co. ("Lane"), Salem, O.
 Columbian Hardware Co. ("Cleveland" Steel), Cleveland, O., & 168 Church, New York
 Davenport Foundry & Machine Co., Davenport, Iowa
 Duplex Hanger Co., Cleveland, O.
 General Agency & Securities Co. ("Dousman"), Kansas City, Mo.
 Joetz Box Anchor Co., New Albany, Ind.
 Grabler Mfg. Co. (Forged), Cleveland, O.
 Hercules Steel & Iron Co., The Arcade, Cleveland, O.
 Lane Bros. Co., Poughkeepsie, N. Y.
MERRITT & CO., 94 Arch, Camden, N. J. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO., Ham-ilton, O. (See adv. index, end of book)
 Mulvey, Chas. Mfg. Co., 1331 35th, Chicago, Ill.
 National Iron & Wire Co. (Steel), Cleveland, O.
 Oliver Iron & Steel Co., Pittsburg, Pa.
REMPPIE, WM. F. CO., Reading, Pa., & 1506 Sansom, Phila., Pa. (See adv. index, end of book)
RIESECK, P. (Wrought Steel), Al-legheny av & Rebecca, Allegheny, Pa. (See adv. index, end of book)

ESTABLISHED 1876.

HEARTLEY MACHINE, VARIETY IRON AND TOOL WORKS.**GEO. W. HEARTLEY, Proprietor.**

MANUFACTURER OF

PATENT ROPE CLAMPING DEVICES

For Compressing Corn Shocks, Stretching Clothes Lines, Hammocks, Tents, Etc.

EAVES TROUGH HANGERS—SEVERAL STYLES.

Jobbers of Eaves Trough and Conductor Pipe and Elbows, Etc.

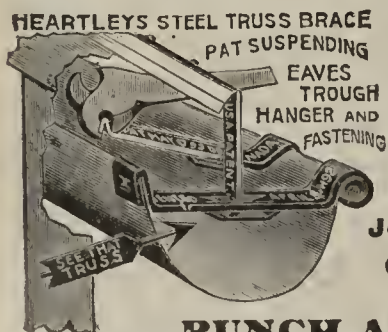
Combination Presses, Dies, Punches, Shears and Metal Working Machinery and Tools for Patent Specialties,

PUNCH AND DIE FORGING, MACHINE JOBBING, ETC.

Sheet Metal Stampings Made and Formed and Tools for Same.

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SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa. (See adv. index, end of book)
TRUSSED CONCRETE STEEL CO., Trussed Concrete bldg. (See adv. index & branch offices, end of book)
VAN DORN IRON WORKS CO. (Steel), 2685 E 79th, Cleveland, O. (See adv. index, end of book)
 Variety Mfg. Co. ("Mulvey"), Sacramento & Carroll av., Chicago, Ill.

*Hangers (Marline)

DIAMOND EXPANSION BOLT CO., 90 West, New York. (See adv. index & branch offices, end of book)

Hangers (Messenger)

Norton Tool Co. (Combination), West Park, Ohio

Hangers (Mine)

Ohio Brass Co., Mansfield, O.

Hangers (Pipe)

Ahrens & Ott Mfg. Co., Louisville, Ky.
 American Hardware & Mfg. Co., Ottawa, Ill.
 Avery Stamping Co. ("Neverbreak"), Cleveland, O.

Badger Brass Mfg. Co., Kenosha, Wis.
 Bailey-Farrell Mfg. Co., Pittsburg, Pa.
 Barrett, Jas. Mfg. Co. (Brass), 211 Franklin, Boston, Mass.

Beaton & Corbin Mfg. Co., Southington, Conn.
 Belfield, H. & Co. (Multiple & Expansion), 435 N Broad, Phila., Pa.

Berger Bros. Co., 237 Arch, Phila., Pa.
 Billings, D. L. Co. ("Perfect"), 780 Dudley, Boston, Mass.

Blaiser, M. E. & Co., Utica, N. Y.
 Blake & Williams, 211 W 20th, New York
 Buckley-Hart Mfg. Co. (Brass), 527 Franklin, Detroit, Mich.

Canton Brass Co., Canton, O.
 Cunn & Saul, 516 Commerce, Philadelphia, Pa.
 Climax Specialty Co., Seneca Falls, N. Y.

CORNELL & UNDERHILL ("Eureka"), 45 Beach, New York. (See adv. index, end of book)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Cryer, T. B. & Co., 249 High, Newark, N. J.
 Devlin, Thos. & Co. ("Kane," "National"), 3d & Lehigh av., Phila., Pa.

Eureka Heating & Ventilating Co. (C. W. Light, Prop.) ("Eureka"), Saginaw, Mich.
 Evory Mfg. Co. ("Mack"), 102 John, New York

Fee & Mason (Iron & Brass), 81 Beekman, New York
 Flagg, Stanley G. & Co. (Malleable Iron), 19th and Pa. av., Phila., Pa.

General Fire Extinguisher Co., Providence, R. I.
 Glenn Mfg. Co. ("Expansion Ring"), St. Charles, Ill.

Grabler Mfg. Co. ("Grabler" Universal Extension, Split Ring, U, etc.), Cleveland, O.
 Hale-Dobbin Specialty Co. ("Gem"), Unity bldg., Chicago, Ill.

Griffing, A. A. Iron Co. ("Bundy," "Glant"), 449 Communipaw av., Jersey City, N. J.

Hart-Ayres Plumbing Co. ("Ideal"), 4th av & Degraw, B'klyn, N. Y.
 Haydenville Mfg. Co., Haydenville, Mass.

Hayes Pump & Planter Co. ("Dack"), Galva, Ill.

Hodgdon Brass Works (Brass), 421 Atlantic av., Boston, Mass.

Hoffman-Billings Mfg. Co., Milwaukee, Wis.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Hughson Steam Specialty Co. ("Eclipse"), 860 S. Halstead, Chicago, Ill.

Illinois Malleable Iron Co. ("Chicago"), 515 Diversey boul., Chicago, Ill.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.

Kelly & Jones Co. ("Jones" Patent), 135 Water, Pittsburg, Pa.
 Kriebel & Co., 826 Spring Garden, Phila., Pa.

Kupferle, Jno. C. (Expansion), 2d & Mound, St. Louis, Mo.

Libbey, Parker & Co. ("Victor"), 416 Atlantic av., Boston, Mass.

McCullom, George (Malleable), Muskegon, Mich.

Modern Iron Works (Expansion or Ring Hooks) Moore, Joshua, Marseilles, Ill. Quincy, Ill.

Mulford Heater Co., Galva, Ill.

Mullaney's, Jas. Son (Brass), 25th & Lexington av., New York

National Mfg. Co., 830 Champlain av., Cleveland, O.

National Supply Co., Toledo, O.

National Tube Co. ("Western" Expansion), Pittsburg, Pa.

Newbury, Jay H., Goshen, N. Y.

Newbury Mfg. Co. (Adjustable Expansion, etc.), Monroe, N. Y.

Park & McKay Co., 55 Bagley, Detroit, Mich.

Peck Bros. & Co., New Haven, Conn.

Penna. Engineering Co. ("Hanna" Ball Joint, Malleable Iron), 1119 N. Howard, Phila., Pa.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburg, Pa. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)

Pleuger & Henger Mfg. Co., 11th & Herbert, St. Louis, Mo.

Powhatan Brass & Iron Works, Charleston, W. Va.

Reed Mfg. Co. ("Clark's" Adjustable), Erie, Pa.

Register's, J. Sons Co., 49 W Holliday, Baltimore, Md.

Rutzler, E. ("Universal"), 178 Centre, New York

SIMMONS, JOHN CO. ("American," "Netherland"), 110 Centre, New York. (See adv. index, end of book)

Smith, E. L. & Co. ("Haskell"), 195 Fort Hill Sq., Boston, Mass.

Sproul & McGarrin ("I. X. L."), Grand Rapids, Mich.

Street & Kent Mfg. Co., 109 S Jefferson, Chicago, Ill.

United Metal Mfg. Co., 186 Wooster, New York

Victor Supply Co. ("Abhatt"), Springfield, O.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Webb, F. W. Mfg. Co., 50 Elm, Boston, Mass.

Wolverine Brass Works, Grand Rapids, Mich.

Young, Jos. H. ("Boston" Brass), 80 High, Boston, Mass.

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Brown & Sharpe Mfg. Co., Providence, R. I.
 Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.

Dodge Mfg. Co., Mishawaka, Wis.

Erie Clutch & Pulley Co., Erie, Pa.

Fay, J. A. & Egan Co., S. Front & John, W., Cincinnati, O.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Great Western Mfg. Co., Leavenworth, Kan.

Jones & McLaughlin Steel Co., Pittsburg, Pa.

Medart Patent Pulley Co., St. Louis, Mo.

Nassau Machine Works (Wrought Steel), 55 Furman, Brooklyn, N. Y.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)

Valley Iron Works, Williamsport, Pa.

Woonsocket, Machine & Press Co., Woonsocket, R. I.

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WHEN YOU BUILD use the
RIESECK Patent Wrought Steel

Joist Hanger

P. RIESECK
 Allegheny Ave. and Rebecca St.,
 Cheapest and Best. ALLEGHENY, PA.

Brooks, Clarence & Co., 249 Chestnut, Newark, N. J.
 Buckeye Paint & Varnish Co., Toledo, O.
 Butcher Polish Co., 356 Atlantic av., Boston.
 Chicago Varnish Co., 855 Elston av., Mass.
 Chicago Wood Finishing Co., 261 Elston av., Chicago, Ill.
 Continental Varnish & Color Co., 1315 W. 8th, Kansas City, Mo.
 Devoe, F. W. & C. T. Reynolds Co., 101 Fulton, New York
 Felton, Sibley & Co., 136 N. 4th, Phila., Pa.
 Flatoua Wood Finishing Co., Perth Amboy, N. J.
 Flood & Conklin Co., 132 Chestnut, Newark, N. J.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Gillespie, Chas. H. & Sons, 125 Dey, Jersey City, N. J.
 Glidden Varnish Co., Rockefeller bldg., Cleveland, Ohio.
 Grippin Mfg. Co., Newark, N. J.
 Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd., Philadelphia, Pa.
 M'Lennan Paint Co. (Ltd.), 175-195 Rano, Buffalo, N. Y.
 Macneal, Jas. B. & Co., Warner & Wooster, Baltimore, Md.
 Mitchell-Mallon Co., 1648 B'way, New York
 Mitchell & Wheeler, 319 N. J. R. R. av., Newark, N. J.
 Moller & Schumann, Marcy & Flushing avs., Brooklyn, N. Y.
 Murphy Varnish Co., Newark, N. J.
 Palmer-Price Co., 270 Chestnut, Newark, N. J.
 Smith, Edw. & Co., 141 B'way, New York
 Somerville, Wm. Sons (Wax Finish), 292 Pearl, New York
 Standard Varnish Works (Gutta Percha), 29 B'way, New York
 Wilhelm, A. Co., Reading, Pa.

Hard Rubber Goods

American Hard Rubber Co., 9 Mercer, New Davidson Rubber Co., Boston, Mass.
 Canfield, H. O. Co., Bridgeport, Conn.
 Davol Rubber Co., Providence, R. I.
 Goodrich, B. F. Co., Akron, O.
 Household Rubber Co., Youngstown, O.
 Luzerne Rubber Co., Treuton, N. J.
 Stokes, Jos. Rubber Co., Trenton, N. J.
 Tyer Rubber Co., Andover, Mass.

Hardening & Tempering Processes, Etc.

(See Compounds, Case Hardening & Tempering)

Hardies

Champion Tool Co. ("Champion"), Meadville, Pa.
 Evansville Tool Works (Straight & Circular Cut), Evansville, Ind.

Hardware Bins (Movable)

Clark, W. J. Co., Salem, O.

Hardware (Builders' Rustless)

BOMMER SPRING HINGES

257 to 271 Classou av., Brooklyn, N. Y. (See adv. index, end of book)

Chicago Hardware Co., North Chicago, Ill.
 Corbin, P. & F., New Britain, Conn.
 Columbian Hardware Co., Cleveland, O.
 Corbin, P. & F., New Britain, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Sargent & Co., New Haven, Conn., & 94 Centre, New York
 Yale & Towne Mfg. Co., 9 Murray, New York
 Works: Stamford, Conn.

Hardware from Architects' Designs

Chicago Hardware Co., North Chicago, Ill.
 Corbin, P. & F., New Britain, Conn.
JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York, & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Centre, New York
 Union Equipment & Bronze Co., 1901 Park av., New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Hardware Mfrs.

(See also Hardware, Wholesale; also Hinge Manufacturers; also Lock Manufacturers; also Door Hangers; also Door Knob Manufacturers; also Sash Balance Manufacturers; also Nail Manufacturers; also Sash Weights; also Chains, Sash; also Cutlery Manufacturers, etc.)

CALIFORNIA.

RIVERSIDE—Miller, Albert W. Mfg. Co. (Specialties)
 SAN FRANCISCO—Falls Mfg. Co. (Hardware & Specialties), 360 Fremont

CONNECTICUT.

BRIDGEPORT—Acme Shear Co. (Shears & Turners' Snips)
 American Novelty Co. (Cast & Wrought Brass)
 Bridgeport Brass Co.
 Bridgeport Chain Co. (Sash Chains, etc.)
 Bridgeport Hardware Mfg. Corp.
 Burns, Silver & Co.
 Cornwall & Patterson Mfg. Co. (Piano & Organ)
 Dosch Mfg. Co. (Specialties)
 Hotchkiss, Edw'd S. (Light)
 Hurwood Mfg. Co. (Inc.) (Specialties)
 Kuapp, Geo. S. (Specialties)
 Smith & Egge Mfg. Co. (Pulleys, Chains, Pliers, Punches, etc.)
 White Mfg. Co. (Carriage)
 BRISTOL—New Departure Mfg. Co. (Bells & Root, Chas. J. (Butts, Gongs, etc.)
 Sessions, J. H. & Son
 FORESTVILLE—Andrews, C. E. (Light)
 GUILFORD—Spencer's, I. S. Sons
 MERIDEN—Dayton, C. L. (Organ)
 Foster, Merriam & Co. (Casters, Drop Handles, Furniture Trimmings, Cabinet Hardware, etc.)
 International Silver Co. (Coffin Trimmings, etc.)
 Parker, Chas. Co. (Window Trimmings, etc.)
 Wallace, F. J. (Saddlery), 82 Britannia
 MIDDLETOWN—Chapman, W. H., Co. (Saddlery)

Chapman, W. H. Co. (Saddlery)
 Smith, J. O., Mfg. Co. (Stationers')
 Wilcox, Crittenden & Co. (Marine, etc.)
 MOUNT CARMEL—Woodruff, W. W. & Sons (Carriage & Automobile Mountings)
 NEW BRITAIN—Corbin Cabinet Lock Co. (Trunk)
 Corbin, P. & F. (Builders')
 Hummaeson & Beckley Mfg. Co. (Hardware & Pocket Cutlery)
 Judd, Rollin D. (Builders & Saddlery)
 Lauders, Frary & Clark (Inc.), (Cutlery & Hdw. Specialties)
 North & Judd Mfg. Co. (Harness Hardware, "Anchor Brand")
 North & Pfeiffer Mfg. Co. (Specialties)
 Russell & Erwin Mfg. Co. (Builders)
 Stanley Rule & Level Co. (Carpenters' Tools)
STANLEY WORKS (Wrought Steel Butts, Brackets, etc.) (See adv. index, end of book)
 Taplin Mfg. Co. (Specialties)
 Union Mfg. Co. (Springs, Hinges, etc.)
 NEW HAVEN—American Rivet Co. (Saddlery)
 Atlas Mfg. Co. (Brackets, Wire & Sheet Metal Specialties), 125 Water
 Brown, R. H. & Co. (Specialties)
 Cowles, C. & Co. (Inc.), Malleable & Brass Hinges & Locks)
 English & Mersick Co. (Carriage & Automobile Hardware & Specialties)
 Fitch, W. & E. T. Co. (Sash Locks & Saddlery)
 Henn, A. S. & Co. (Specialties)
 Ives, H. B. Co. (Sash, Locks Lifts, Fasteners, etc.)
 Mallory-Wheeler Co. (Padlocks)
 New Haven Paragon Mfg. Co. (Specialties), 58 Brewster
 North, O. B. & Co. (Saddlery)
 Ochsner, A. & Sons Co. (Auto & Carriage Locks, etc.)
 Perpete Mfg. Co. (Carriage)
 Sargent & Co. (Locks, Builders', Cabinet, & General Hardware)
 Schellhorn, Wm. Co. (Pliers, etc., & Hardware Specialties)
 Scranton & Co. (Specialties), 42 Church
 Seward, M. & Son Co. (Wagon)
 Snow & Petrelli Mfg. Co. (Specialties)
 OAKVILLE—Smith, S. & Son
 PLAINVILLE—Clark, A. N. & Son (Watch-makers' Tools, etc.)
 Hills, Edwin (Harness, etc.)
 PLANTSVILLE—Atwater Mfg. Co. (Carriage, Blakeslee Forging Co. (Carriage, etc.)
 Smith, H. D. & Co. (Carriage)
 SOUTHTON—Peck, Stow & Wilcox Co.

SOUTH NORWALK—Lockwood Mfg. Co. (Builders)
 Norwalk Lock Co. (Builders)
 STAMFORD—Davenport & Treacey Plauo Co. (Plauo Plates, etc.)

Potter, C. D., Co. (Piano)
 Yale & Towne Mfg. Co. (Builders')
 TERRIVILLE—Eagle Lock Co. (Locks, etc.)
 TORRINGTON—Progressive Mfg. Co. (Piano, "Eagle")

TURNER & SEYMOUR MFG. CO. (Upholstery & Drapery) (See adv. index, end of book)

Union Hardware Co. (Skates & Hardware)
 UNIONVILLE—Mosher & Hogarty (Saddlery)
 WATERBURY—American Ring Co. (Upholstery & Cabinet), 531 Bank
 Blake & Johnson Co. (Piano & Organ, etc.)
 Morden Mfg. Corporation (Modern Rings & Loose Leaf Devices for Ledgers, Pamphlets, etc.)

Noera Mfg. Co. (Specialties)
 Novelty Mfg. Co. (Specialties)
 Plume & Atwood Mfg. Co. (Brass Butts, etc.)
 Seovill Mfg. Co. (Brass Butts, etc.), 99 Mill
 Shoe Hardware Co. (Buckles, etc.), 72 Brown

Waterbury Brass Goods Corporation (Brass Butt Hinges)
 Waterbury Foundry Co.
 Waterbury Mfg. Co. (Saddlery, Brass & Nickel Trimmings)

WATERVILLE—Berbecker & Rowland Mfg. Co. (Upholstery & Cabinet)
 WINSTED—Empire Knife Co. (Pocket)
 Moore, Franklin Co. (Carriage)
 Morgan Silver Plate Co. (Casket & Coffin)
 Richards, T. O. Hdw. Co. (Brass & Iron Specialties)
 Strong Mfg. Co. (Casket & Coffins)

DELAWARE.

WILMINGTON—Delaware Marine Supply Mfg. Co. (Brass & Bronze Hinges, etc.)
 Delaware Shear Co. (Shears, etc.)

GEORGIA.

ATLANTA—Wood, A. A. & Sons Co.

ILLINOIS.

ARLINGTON HEIGHTS—Berbecker, Julius & Sons Co.

AURORA—Richards Mfg. Co. (Builders')
 Wilcox Mfg. Co. (Door Hangers & Kindred Specialties)

CHICAGO—Acme Steel Goods Co. (Metal Specialties), 2836 Archer av
 Adjustable Clamp Co., 56 N Jefferson
 Beckley-Ralston Co. (Carriage & Automobile), 80 Michigan av
 Cassady-Fairbank Mfg. Co. (Specialties), 6106 La Salle

Chicago Hardware Foundry Co. (Builders, etc.), 50 W Wash'n
 Chicago Spring Butt Co. (Spring Butts, etc.), 491 Carroll av
 Coleman Hardware Co. (Builders'), 168 Michigan av
 Duffy Mfg. Co. (Steel Tools & Hatches), 125 Indiana

Dearborn Hardware Mfg. Co. (Builders), 1344 Carroll av
 Gardner Sash Balance Co., 40 Dearborn
 Harley Burglar Proof Ventilating Sash Lock Mfg. Co. 1394 Ogden av

Hiles, C. A. & Co. (Ice Tools, Specialties), 14th & Western av
 Johnson, R. R. ("Johnson" Window Shade Adjuster), 161 Randolph

Kienzle & Kuhles (Saddlery), 90 Ohio
 Lawsou Mfg. Co. (Ball Bearing, Pivot Floor Hinges, etc.), 40 Dearborn

Nicol & Co. (Specialties), 66 N Jefferson
 Orr & Lockett Hardware Co. (Builders, etc.), 71 Randolph

Payson Mfg. Co., 1319 W. Jackson boui
 Pratt, Wm. E. Mfg. Co., 91 Lake
 Prescott Hardware Mfg. Co. (Door Hangers), 78 Randolph

Read, A. P., Co. (Specialties), 24 W. Randolph
 Russell & Erwin Mfg. Co. (Builders, etc.), 17 Lake

STANLEY WORKS (Wrought Steel Butts, Brackets, etc.), 22 Lake. (See adv. index, end of book)

Vaughan & Bushnell Mfg. Co., 877 Carroll av
 Western Brass Mfg. Works (Inc.) (Builders', Cabinet, etc.), 1121 W 21st

FREEPORT—Arcade Mfg. Co.
 Stover Mfg. Co. (Builders, etc.), 165 River

GALESBURG—Wenzelmaun Mfg. Co. (Specialties)

GENEVA—Burgess & Norton Mfg. Co. (Specialties)
HARVARD—Hunt, Helm, Ferris & Co. (Bar Door Hangers, Latches, etc.)
LOCKPORT—Barrows Lock Co. (Builders)
MOLINE—Cooper, H. W. (Saddlery)
MORRIS—Nickel Mfg. Co. (Specialties)
NORTH CHICAGO—Chicago Hardware Co. (Builders, etc.)

Chicago Hardware Foundry Co.
OTTAWA—American Hardware Mfg. Co. (Specialties, Door Catches, etc.)
ROCKFORD—Andrews Wire & Iron Works (Specialties)
 Sovereign, C. E. Co. (Specialties)
STERLING—Lawrence Bros. (Door Hangers, Hinges, etc.)
 National Mfg. Co. (Builders)
 Sterling Foundry Co. (Specialties)
SYCAMORE—Turner Brass Works (Specialties)

INDIANA.

INDIANAPOLIS—Tucker & Dorsey Mfg. Co. (Specialties). State av c Bates

IOWA.

CEDAR RAPIDS—Myers, F. E., & Bro.
DES MOINES—Watrous, E. L. Mfg. Co. (Sash Hangers, Fasteners, etc.)
KEOKUK—Decker Mfg. Co. (Specialties)
 Weber-Kirch Mfg. Co. (Specialties)
LYONS—Lyons Mfg. Co. (Specialties)
 United States Steel Lock Co.
OTTUMWA—Johnston & Sharp Mfg. Co. (Steel Sash Pulleys, etc.)

KANSAS.

LEAVENWORTH—Hesse, W. G. & Son Mfg. Co. (Wagon)
OSKALOOSA—U. S. Bridle Bit Co.

KENTUCKY.

NEWPORT—Higgin Mfg. Co. (Carriage & Metal Screens)

MAINE.

BATH—Torrey Roller Bushing Works (Marine)
 Watson, Frye & Co. (Marine)
PORTLAND—Laughlin, Thos. Co.
 Marine Hardware & Equipment Co. (Marine)
SKOWHEGAN—Williams, C. A. & Co. (Hatchets, etc.)
SOUTH UNION—Jones, S. W. (Door Hinges)

MARYLAND.

BALTIMORE—Dix Mfg. Co., 1021 Guilford av
 Duer, Jno. & Sons (Cabinet, etc.), 36 S Charles
 Hutton, G. H. & Co. (Carriage), 1515 Harford
 Kemp, C. M. Mfg. Co. (Sash Locks, Holders, etc.), 401 E Oliver
 Sinclair-Scott Co. (Specialties), Wells c Patapsco
 Whiting, Wm. H. & Co. (Marine Specialties), 222 E Pratt

MASSACHUSETTS.

ATTLEBORO—Wilmarth, W. D. & Co., Corp'n (Casket)
BOSTON—Austin & Eddy (Builders), 117 Broad
 Barwood, L. J. Co. (Specialties), 387 Albany
 Bliss Bros. (Marine) 170 Commercial
 Ferdinand, L. W. & Co. (Marine), 201 South Hall, Wm. & Co. (Asylum & Prison Locks, etc.), 4 Dock sq
 McGreece, Jas. P., & Co. (Plano), 262 Dover

Norton Door Check Co., 102 Pearl
 Specialty Mfg. Co. (Carriage & Chafe Irons), 88 Tremont
 Weld Mfg. Co. (Shoe Buckles), 79 Lincoln
BROCKTON—Tuck Mfg. Co. (Tools & Cutlery)
FISKE—Snell Mfg. Co. (Bits, Augers, etc.)
GREENFIELD—Goodell-Pratt Co. (Drills, Saw Blades, etc.)
HOLYOKE—Coburn Trolley Track Mfg. Co. (Hangers & Tracks)
NEEDHAM—Orr, Galen & Co. (Blind Trimmings, etc.)
PEARODY—Marine Hardware Co. (Yacht)
SOMERVILLE—Forg, P. (Cabinet)
SPRINGFIELD—Couch, L. J., Co. (Theatrical Specialties)
WESTFIELD—Rogers & Whitney Co. (Casket Mountings)
WINCHENDON—New England Lock & Hinge Co. (Tin Hinges, Chest Locks, etc.)

WORCESTER—Allen, Chas. (Fire Department Supplies), 84 Foster
 Eagan, T. F. Hardware Co. (Specialties), 103 Woodbridge av
 Blithewood av
 Hamblin & Russell Mfg. Co. (Specialties)
WORCESTER PRESSED STEEL
 Co. (Stamped Steel). (See adv. index end of book)

MICHIGAN.

DETROIT—Buhl Sons Co. (Nails, Roofing, etc.), 113 Woodbridge av
 Detroit Register Co. (Specialties)
 Detroit Shipbuilding Co. (Marine, Brass)
 P. R. Mfg. Co. (Specialties)
VOELKNER & HARRY MANUFACTURING
 Co. (Cabinet & Furniture), 125 Woodbridge W. (See adv. index, end of book)
GRAND RAPIDS—Grand Rapids Hdw. Co., 3 Pearl
 Grand Rapids Saddlery Hdwe. Mfg. Co. (Saddlery)
 Hardware Supply Co. (Door Catches & Cabinets, etc.)

MINNESOTA.

FERGUS FALLS—Fergus Iron Works Co. (Sash Weights, Sinks, etc.)

MISSOURI.

ST. LOUIS—American Foundry & Mfg. Co., Hebert & 11th
 Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb
 Kupferle, John C. (Plumbers' Specialties), 2d c Mound
 Nixdorf-Krein Mfg. Co., 900 Howard
 St. Louis Trunk Hdw. Mfg. Co. (Trunk Hdw.), 609 Chouteau av
 Seldel Mfg. Co. (Sash Pulleys, etc.), Chemical bldg

NEW HAMPSHIRE.

NASHUA—Nashua Saddlery Hardware Co.

NEW JERSEY.

FLEMINGTON—Mallory Mfg. Co. (Shutter Worker, etc.)
IRVINGTON—Ross, Jos., Jr., & Co. (Specialties)
NEWARK—Ahrend, Herman & Son (Trunk, etc.), 179 Van Buren
 Baldwin, Joseph, & Co. (Saddlery), 254 Market
 Brabson Bros. (Specialties), 47 Hamilton
 Buermann, August (Bits, Spurs, Stirrups, etc.), 220 Jeliff av
 Crane, W. T. Carriage Hardware Co.
 Drake, Mahlen, S. & I. T. (Specialties), 15 Duranoid Mfg. Co. (Specialties) Stirling
 Felder, R. & Co. (Specialties)
 Freeman, A. W. (Saddlery), 67 N. J. R. R.
 Gilchrist Co. (Specialties) av
 Gould's, M. Son & Co. (Trunk), 61 Hamilton
 Greacen, Walter & Co. (Saddlery)
 Grossner, Fred W. (Saddlery), 392 Bank
 Havell Mfg. Co. (Trunk & Bag Trimmings)
 Huebel Mfg. Co. (Specialties), 103 Monroe
 Jenkinson, R. C. & Co. (Sheet Metal & Wire Goods), 289 Washington
 Lukes, Wm. (Stationers' & Novelties), 857 S 19th
 Myer, Benj. Co. (Builders'), 470 Broad
 O'Neill & O'Neill (Specialties)
 Romer & Co. (Inc.) (Lock, etc.), 275 Pass
 Searls Mfg. Co. (Carriage Mountings) sale
 Smith, G. L. & Co. (Saddlery)
 White, Ira F. & Son (Specialties), 144 Walnut
 Whitehouse, Edward A. (Saddlery, Silver Trimmings)
 Wiss, J. & Sons (Cutlery), 683 Broad
TRENTON—Skillman Hardware Mfg. Co.

NEW YORK.

ALBANY—Gomph, Henry G. & Co. (Saddlery, Tools), 55 Madison av
AUBURN—Clapp, E. D. Mfg. Co. (Carriage)
 Eccles, Richard Co. (Carriage, etc.)
BINGHAMTON—Binghamton Hardware Specialty Co. (Specialties)
 Crandall, Stone & Co. (Carriage & Wagon)
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Brown, S. A. (Specialties), 50 Hodge av
 Buffalo Specialty Co., 375 Ellcott
 Clark Mfg. Co. (Builders), 260 Chandler
 Forsyth Mfg. Co. (Specialties), 308 Terrace
 Josef, E. E., Mfg. Co. (Specialties), 14 Perry
KEIM, JNO. R. MILLS (Inc.), (Pressed Steel Specialties). (See adv. index, end of Pratt & Letchworth Co. (Carriage) book)

CHAPPAQUA—Schatz Mfg. Co. (Specialties)
CORTLAND—Cortland Specialty Co. (Carriage)
 Nelson & Call Co. (Carriage)
ELMIRA—Cronk & Carrier Mfg. Co. (Specialties)
FAYETTEVILLE—Crouch, Wm. N. (Specialties)
GENEVA—Geneva Cutlery Co.
HOMER—Phoenix Hardware Mfg. Co.
MANLIUS—Cheney, S. & Son (Grey Iron Specialties)

NEW YORK CITY.**Borough of Brooklyn.**

BOMMER SPRING HINGES

257 to 271 Classon av. (See adv. index, end of book)

Brass Goods Mfg. Co. (Builders, Refrigerator & Specialties), Nevlin cor Union

Boroughs of Manhattan & Bronx.

NEW YORK—Bayer-Gardner-Himes Co. (Builders), 157 W 29th
 Chicago Spring Butt Co., 126 Chambers
 Corbin, P. & F., 106 Lafayette
 Creamer, W. G. & Co. (Car), 96 John
 Durkee, Chas. D., & Co. (Marine), 2 South
 Eagle Lock Co., 105 Chambers
 Gould's, M. Son & Co. (Trunk), 83 Reade
 Gueriu, P. E. (Inc.), 23 Jane
 Haas, Henry & Son (Plano), 1909 Park av
HAMMACHER, SCHLEMMER & Co. (Builders, etc.), 133 4th av. (See adv. index, end of book)
 Hanson & Rhodes (Builders), 157 W 29th
 Hardware & Woodenware Mfg. Co. (Builders' Specialties, Toys, etc.), 693 B'way
 Jennings, C. E. & Co. (Mechanics' Tools & Specialties), 42 Murray
 Judd, H. L. Co. (Upholstery, Stationary & Fancy), 87 Chambers
 Keil, Francis & Son, 401 E 163d
McCABE HANGER MFG. CO. (Door Hangers, etc.), 425 W 25th. (See adv. index, end of book)
 McMillan's, W. H. Sons (Marine), 153
 Metal Stamp Co. (Carriage & General), 243 West
 Morton, Thos. (Firm of) (Sash Chains, etc.), 181 Lafayette
 Norwalk Lock Co., 23 Warren
 Parker, Chas. Co. (Blind Trimmings, etc.), 32 Warren
 Peck, Stow & Wilcox Co. (Hinges, etc.), 27 Murray
 Plume & Atwood Mfg. Co. (Butt Hinges, etc.), 279 B'way
 Russell & Erwin Mfg. Co., 96 Lafayette
 Sargent & Co., 94 Center
 Smith & Egge Mfg. Co., 62 Reade
STANLEY WORKS, 79 Chambers. (See adv. index, end of book)
 Tiebout, W. & J. (Brass & Galvanized), 118 Chambers
 Yale & Towne Mfg. Co. (Builders), 9 Murray

(End of New York City)

NIAGARA FALLS — **NIAGARA FALLS**
 Metal Stamping Works (Specialties). (See adv. index, end of book)
POUGHKEEPSIE—Lane Bros. Co. (Door Hangers, etc.)
ROCHESTER—Caldwell Mfg. Co. (Sash Balances, etc.), 8 Jones
 Pullman Mfg. Co. (Sash Balances, Door Checks & Springs)
 Sargent & Greenleaf Co. (Locks)
SARANAC LAKE—Adirondack Hardware Co.
SYRACUSE—Central City Bolt Co. (Door Hangers), 1618 N Salina
 Frazer & Jones Co. (Saddlery)
 Stearns, E. C. & Co. (Door Hangers, etc.)
TROY—Covert Mfg. Co. (Saddlery), 100 Oneida
 Killbourne Mfg. Co. (Specialties), Ida Hill
 Read, O. B. Mfg. Co. (Saddlery)
UTICA—Blaser, M. E. & Co. (Marine)
WATERFORD—King, J. M. & Co. (Stocks, Dies, etc.)
WATERTOWN—Wise, Jas. B. (Specialties of Pressed Work)

OHIO.

ASHLAND—Myers, F. E., & Bro. (Builders' Hardware)
CANTON—Buckeye Mfg. Co. (Specialties)
 Canton Malleable Iron Co. (General Saddlery)
 Elbel Co. (Saddlery, etc.)
 Gibbs Mfg. Co. (Specialties)
 Kohler, F. E. & Co. (Specialties)
 Ney Mfg. Co. (Hangers, etc.)
 Novelty Cutlery Co. (Pocket Knives, Razors, Ink Erasers, Dirk Knives, Letter Openers, Shoe Buttoners, Scalpel Lances, Folding Scissors, Souvenir Knives)

CINCINNATI—Enterprise Brass & Plating Co. (Vehicle Mountings), 2838 Spring Grove av
Haven Malleable Castings Co. (Saddlery)
Monarch Carriage Goods Co.
National Brass Mfg. Co. (Furniture & Hearse Trimmings, etc.)
Queen City Forging Co. (Carriage)
Schriver, O. P. & Co. (Specialties), 621 E Pearl
Schroder, J. B. & Co. (Builders, etc.), 132
Tatum, S. C. Co. (Stationers.) E 5th
CLEVELAND—Bronson-Walton Co.
Cleveland Hardware Co.
Cleveland Lock Co.
Columbian Hardware Co.
Eberhard Mfg. Co. (Carriage & Wagon),
Tennyson & C P R R
Haury, J. F. Co. (Carriage), 2612 Lorain
Independent Register & Mfg. Co. (Specialties), 1415 W. 9th, N W
Langenau Mfg. Co., Franklin, av opp Lowell
Russ, A. E., Co., 6813 Wade Park av, N E
Taylor & Boggis Foundry Co. (Builders, etc.)
Walworth Run Foundry Co. (Specialties), 2488 W 27th, S W
COLUMBUS—Hayden, P. Saddlery Hardware
Lanman, E. B. Co. (Carriage) Co.
West Mfg. Co. (Specialties)
DAYTON—Dayton Malleable Iron Co. (Carriage)
Dayton Supply Co. (Night Latches, Door & Sash Locks, etc.)
FREDERICKTOWN—Zieg, F. B. Mfg. Co. (Specialties)
FREMONT—Herbrand Co. (Carriage & Wagon)
GENEVA—Champlon Saffley Lock Co. (Locks),
KENT—Miller Keyless Lock Co. (etc.)
MANSFIELD—Ohio Brass Co. (Saddlery, etc.)
SHELBY—Shelby Spring Hinge Co. (Builders, Cabinet, etc.)

PENNSYLVANIA.

ALLENTOWN—Kline Hardware Co. (Specialties)
BRACKENRIDGE—Western Tool & Forge Co. (Awlnings, etc.)
CHESTER—Keystone Drop Forge Works (Carriage & Wagon)
COLUMBIA—Columbia Grey Iron Co. (Builders)
ELDRED—Prouty, C., & Co. (Tools, etc.)
ERIE—Erie Specialty Co. (Ice Picks, Cork Screws, Cork Pullers, etc.)
Griffin Mfg. Co. (Strap & T Hinges, Brackets, Door Bolts, etc.)
FREEMANSBURG—Shimer, Wm. Son & Co.
FULLERTON—Dent Hardware Co. (Refrigerator Trimmings)
GIRARD—Ely, Theo. J. Mfg. Co. (Specialties)
GLEN ROCK—Glen Rock Stamping Co. (Specialties)
LANCASTER—Safe Padlock & Hardware Co. (Shelf Hardware)
Slaymaker Lock Mfg. Co. (Builders, Car & Ship)
LEONA—Ely, E. C. Co. (Specialties)
MECHANICSBURG—Wilcox, D. Mfg. Co. (Carriage)
NORTH EAST—Fernald Mfg. Co. (Carriage)
PHILADELPHIA—Andrews Mfg. Co. (Door Knobs), 388 Harmony
Berger Bros. Co. ("Keystone" Boiler Handles), 237 Arch
Brewer Bros. (Builders'), 614 Filbert
Brohard Co. (Doorholders, etc.), 1624 N 9th
Corbin Cabinet Lock Co., 52 N 6th
Devlin, Thos. Mfg. Co. (Carriage, Saddlery, Trunk Tinnings, Builders, etc.), 3d & Lehigh av
Enterprise Mfg. Co. (Specialties), 3d & Dauphin
Hutton, R. W. & Co. (Specialties), 524 Walnut
Klufkee's, John Sons (Harness Mountings, etc.), 628 Race
Miller Lock Co. (Locks), 4523 Tacony, Fkd
Mousley's, Chas., Sons (Car, Brass & Bronze), 457 N 12th
Nock, Geo. W. Co. (Inc.) (Locks), 126 N 4th
North Bros. Mfg. Co. (Screw Drivers & Specialties), Lehigh av & N American
Royal Mfg. Co. (Household Specialties), 408 Commerce
Simpson, Jos. D. (Specialties), 724 Beach
Smith, J. Barton Co. (Screw Drivers, Ice Picks, etc.), Norris & Hope
PITTSBURG—McKinney Mfg. Co. (Hinges, Doorhangers & Tracks), Market & Locust, N E
Oliver Iron & Steel Co. (Wagon)
READING—Chantrell Tool Co. (Builders' Shelf)

Franklin Specialty Co. (Hardware & Household Specialties)
Penn Hardware Co. (Builders, etc.)
Rapp, N. N., 142 Orange
Reading Hardware Co. (Builders, etc.)
SHARON—Sharon Hardware Mfg. Co. (Builders')
WILLIAMSPORT—Williamsport Staple Co. (Harness Specialties)
WRIGHTSVILLE—Wrightsville Hardware Co. (Builders & Specialties)

TENNESSEE.

CHATTANOOGA—American Mfg. Co. (Light Southern Skein & Foundry Co. (Wagon))

VERMONT.

WINDSOR—Hubbard & McClary (Specialties, Hangers)

WEST VIRGINIA.

WHEELING—Hazel Atlas Glass Co.

WISCONSIN.

BERLIN—Peck-Hamre Mfg. Co. ("Jewell" Door Latches)
LA CROSS—Stamping & Tool Co. (Dies, Tools & Specialties)
MENASHA—Onward Mfg. Co. (Door Catches, Sash Fasteners, etc.)
MILWAUKEE—Luitink & Sons Mfg. Co. (Door Hangers), 775 18th
Myers, F. E., & Bro. (Builders' Hardware)
NORTH MILWAUKEE—Wagner, E. R. Mfg. Co. (Specialties for Children's Vehicles, etc.)
RACINE—Advance Mfg. Co. (Specialties)
American Skein & Foundry Co. (Wagon)
Racine Malleable & Wrought Iron Co. (Saddlery)
RACINE—Racine Malleable & Wrought Iron Co. (Saddlery)
SOUTH MILWAUKEE—Stowell Mfg. & Foundry Co. (Wagon Malleables, Clevises, etc.)

Hardware Mfrs. (Automobile)

(See Mountings, Automobile; also Hardware Manufacturers, Carriage)

Hardware Mfrs. (Awning)

Snow & Petrelli Mfg. Co., 441 Chapel, New Haven, Conn.
Solid Steel Tool & Forge Co., Brackenridge, Pa.
Wilcox, Crittenden & Co., Middletown, Conn.

Hardware Mfrs. (Belt)

North & Judd Mfg. Co. (Buckles, Belts, etc.), New Britain, Conn.

Hardware Mfrs. (Cabinet)

American Ring Co., Waterbury, Conn.
Berbecker, Julius & Sons Co., Arlington Heights, Ill.
Berbecker & Rowland Mfg. Co., Waterville, Conn.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Brass Goods Mfg. Co., Union & Nevins, Brooklyn, N. Y.
Burns, Silver & Co., Bridgeport, Conn.
Coleman Hardware Co., 168 Michigan av, Chicago, Ill.
Corbin Cabinet Lock Co., New Britain, Conn.
Christensen, Rudolph & Co., 54 Warren, New York
Duer, Jno. & Sons, Baltimore, Md.
Foster, Merriam & Co. (Casters, Pins, Knobs, Escutcheons, etc.), Meriden, Conn.
Guerin, P. E. (Inc.), 23 Jane, New York
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York (See adv. index, end of book)
Hardware Supply Co., Grand Rapids, Mich.
Loeffelholz Co., Milwaukee, Wis.
National Brass Mfg. Co., Cincinnati, O.
National Supply Co., 7 W Lombard, Baltimore, Md.
Orr & Lockett Hardware Co., 71 Randolph, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge W., Detroit, Mich. (See adv. index, end of book)
Yale & Towne Mfg. Co., 9 Murray, New York

Hardware Mfrs. (Car)

Adams & Westlake Co., Chicago, Ill.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Creamer, W. G. & Co., 96 John, N. Y.
Dayton Mfg. Co., Dayton, Ohio
Delaware Marine Supply Mfg. Co. (Brass & Bronze), Wilmington, Del.
Mousley, Chas. & Sons (Brass & Bronze), 457 N 12th, Philadelphia, Pa.
Slaymaker Lock Mfg. Co., Lancaster, Pa.

Hardware Mfrs. (Carriage)

American Skein & Foundry Co. (Wagon), Racine, Wis.
Atwater Mfg. Co., Plantsville, Conn.
Beckley-Balston Co. (Carriage & Automobile), 80 Michigan av, Chicago, Ill.
Blakeslee Forging Co., Plantsville, Conn.
Cortland Specialty Co., Cortland, N. Y.
Clapp, E. D., Mfg. Co., Auburn, N. Y.
Cleveland Hardware Co., Cleveland, O.
Cowles, C., & Co., New Haven, Conn.
Crandell, Stone & Co., Binghamton, N. Y.
Crane, W. T., Carriage Hardware Co. (Iron, Steel, Wheels, etc.), Newark, N. J.
Dayton Malleable Iron Co., Dayton, O.
Devlin, Thos., Mfg. Co., 3d & Lehigh av, Phila., Pa.
Eberhard Mfg. Co., Cleveland, O.
Eccles, Richard Co. (also Drop Forgings), Auburn, N. Y.
English & Mersick Co., New Haven, Conn.
Fernald Mfg. Co. (Quick Shifts, Anti-Rattlers, Whip Sockets, etc.), North East, Pa.
Harper, W. J. Co., 231 Mulberry, Newark, N. J.
Haury, J. F. Co., 2612 Lorain av, Cleveland, O.
Havens Malleable Castings Co., Cincinnati, O.
Herbrand Co., Fremont, O.
Hesse, W. G. & Son Mfg. Co. (Wagon), Leavenworth, Kans.

Higgin Mfg. Co., Newport, Ky.
Hutton, G. H. & Co., 1515 Harford, Baltimore, Md.
Keystone Drop Forge Works (Drop Forged), Chester, Pa.
Lanman, E. B. Co. (Corner Irons, Clip Ties, Felloe Plates, etc.), Columbus, O.
Metal Stamping Co. (Carriage Trimmings & Hardware), 243 West, New York
Monarch Carriage Goods Co., Cincinnati, O.
Moore, Franklin Co., Winsted, Conn.
Nelson & Call Co., Cortland, N. Y.
Ochsner, A. & Son (Coach & Carriage Lamps), New Haven, Conn.
Oliver Iron & Steel Co. (Wagon), Pittsburg, Pa.
Perpente Mfg. Co., 3 Wall, New Haven, Conn.
Pratt & Letchworth Co., Buffalo, N. Y.
Queen City Forging Co., Tennyson & DuMont, Cincinnati, O.
Racine Malleable & Wrought Iron Co. (Wagon), Racine, Wis.
Schroder, J. B., & Co., 132 E 5th, Cincinnati, Ohio
Searls Mfg. Co. (and Carriage Mountings), 27 Mulberry, Newark, N. J.
Seward, Moses & Son Co. (Wagon), New Haven, Conn.
Smith, H. D. & Co., Plantsville, Conn.
Southern Skein & Foundry Co. (Wagon), Chattanooga, Tenn.
Specialty Mfg. Co. (Chafe Irons), 88 Tremont, Boston, Mass.
Stowell Mfg. & Foundry Co. (Wagon Malleables, Clevises, etc.), South Milwaukee, Wis.
White Mfg. Co., Bridgeport, Conn.
Wilcox, D. Mfg. Co., Mechanicsburg, Pa.
Woodruff, Walter W. & Sons Co. (Carriage & Automobile Mountings, etc.), Mt. Carmel, Conn.

WORCESTER PRESSED STEEL CO.

Worcester, Mass. (See adv. index, end of book)

Hardware Mfrs. (Casket)

Eldridge & Co. (Coffin Plates, etc.), Taunton, Mass.
International Silver Co. (Silver Plated), Meriden, Conn.
Morgan Silver Plate Co. (And Funeral Supplies), Winsted, Conn.
Rogers & Whitney Co., Westfield, Mass.

Hardware (Mfrs.) for Sewing Machine Woodwork

Wise, J. B., Watertown, N. Y.

Hardware Mfrs. (Marine)

Adams & Westlake Co., Chicago, Ill.
Blasier, M. E. & Co., 9 Charlotte, Utica, N. Y.
Bliss Bros., 170 Commercial, Boston, Mass.

CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end of book)

Delaware Marine Supply Mfg. Co. (Brass & Bronze), Wilmington, Del.

Detroit Shipbuilding Co. ("Kirby") (Brass Department), Detroit, Mich.

Durkee, Chas. D. & Co., 2 Water, New York

Laughlin, Thos. Co., Portland, Me.

McMillan's, W. H. Sons, 153 South, New York

Marine Hdw. Co. (Yacht), Peabody, Mass.

Marine Hardware & Equipment Co., South Portland, Me.

Morss, A. S. Co. (Motor Boat Fittings, etc.), Boston, Mass.

Mousley, Chas. & Sons (Brass, Bronze, etc.), 457 N. 12th, Phila., Pa.

Norwalk Lock Co., South Norwalk, Conn.

Pullman Mfg. Co., Rochester, N. Y.

Slaymaker, S. R. (Also Ship), Lancaster, Pa.

Torrey, J. G. & Son, Rockland, Me.

Torrey Roller Bushing Works, Bath, Me.

Turner Brass Works, 66 Michigan, Chicago, Ill.

Union Hardware Co., Torrington, Conn.

Watson, Frye & Co., Bath, Me.

Whiting, Wm. H. & Co., Baltimore, Md.

Wilcox, Crittenden & Co., Middletown, Conn.

Wilkinson, A. J. & Co., 188 Washington, Boston, Mass.

Hardware Mfrs. (Piano & Organ)

Blake & Johnson Co., Waterbury, Conn.

Cornwall & Patterson Mfg. Co., Bridgeport, Conn.

Davenport & Tracey Piano Co., Stamford, Conn.

Haas, Henry & Son, 1909 Park av., New York.

HAMMACHER, SCHLEMMER & CO., 133
4th av., New York. (See adv. index, end of book)

Potter, C. D., Co., Stamford, Conn.

Progressive Mfg. Co. (Piano Action Hardware only), Torrington, Conn.

West Side Foundry Co., Troy, N. Y.

Hardware Mfrs. (Saddlery)

American Rivet Co., 87 Orange, New Haven, Conn.

Brahson Bros., Newark, N. J.

Buerman, August (Bits, Spurs, Stirrups, etc.), 37 N. J. R. R. av., Newark, N. J.

Canton Malleable Iron Co., Canton, O.

Chapman, W. H. Co., Middletown, Conn.

Cooper, H. W., Moline, Ill.

Covert Mfg. Co., Troy, N. Y.

Devlin, Thos. Mfg. Co., 3d & Lehigh av., Phila., Pa.

Dorries & Co., 173 Ellicott, Buffalo, N. Y.

Durand Mfg. Co. (Durand Specialties), Newark, N. J.

Eberhard Mfg. Co., Cleveland, O.

Elbel Co. ("Owl Brand"), Canton, O.

Fitch, W. & F. T. Co., New Haven, Conn.

Frazer & Jones Co., Syracuse, N. Y.

Freeman, A. W., Newark, N. J.

Gomph, Henry G. & Co. (Tools), 55 Madison av., Albany, N. Y.

Grand Rapids Saddlery Hdw. Mfg. Co., Grand Rapids, Mich.

Greacen, Walter & Co., Newark, N. J.

Grossner, Fred W., 392 Bank, Newark, N. J.

Havens Malleable Castings Co., Cincinnati, O.

Hayden, P. Saddlery Hardware Co., Columbus, Ohio

Hills, Edwin (Harness, etc.), Plainville, Conn.

Judd, Rollin D., New Britain, Conn.

Klenze, W. F., 90 Ohio, Chicago, Ill.

Klufke's, Jno Sons (Harness Mountings, etc.), 628 Race, Phila., Pa.

Morley Brothers (Inc.), Saginaw, Mich.

Mosher & Hogarty, Unionville, Conn.

Nashua Saddlery Hdw. Co., Nashua, N. H.

North, O. B. & Co., New Haven, Conn.

North & Judd Mfg. Co. ("Anchor" Brand, Saddlery, Blanket, etc.), New Britain, Conn.

Ohio Brass Co., Mansfield, O.

Racine Malleable & Wrought Iron Co., Racine, Wis.

Read, O. B. Mfg. Co., Hall bldg., Troy, N. Y.

Smith, G. L. & Co., Newark, N. J.

Smith, John H. & Sons., 57 Terrace, Buffalo, N. Y.

U. S. Bridle Blt Co. (Bits, etc.), Oskaloosa, Iowa.

Wallace, F. J., Meriden, Conn.

Whitehouse, Edw. A. (Specialty Silver Trimmings), Newark, N. J.

Williamsport Staple Co. (Harness Specialties), Williamsport, Pa.

WORCESTER PRESSED STEEL CO.
(Stamped), Worcester, Mass. (See adv. index, end of book)

Hardware Mfrs. (Screen Door)

National Mfg. Co., Sterling, Ill.

Hardware Mfrs. (Stationery)

Guerlin, P. E. (Inc.) (Bronze), 23 Jane, New York

Hardware Mfrs. (Trunk & Bag)

Ahrend, Herman & Son, Newark, N. J.

American Can Co., 135 Adams, Chicago, Ill.

Atco Metal Mfg. Co., Atco, N. J.

Havell Mfg. Co. (Trimmings), Newark, N. J.

Jenkinson, R. C. & Co. (Sheet Metal & Wire Goods, etc.), Newark, N. J.

KEIM, JNO. R. MILLS (Inc.), Buffalo,
N. Y. (See adv. index, end of book)

Milwaukee Stamping Co., West Allis, Wis.

Neumann, R., Hardware Co., Newark, N. J.

St. Louis Trunk Hardware Mfg. Co., 609 Chouteau av., St. Louis, Mo.

Sessions, J. H. & Son (Malleable Iron & Steel Trimmings, etc.), Bristol, Conn.

Hardware Mfrs. (Upholstery)

Berbecker, Julius & Sons Co., Arlington Heights, Ill.

Berbecker & Rowland Mfg. Co., Waterville, Conn.

Kroder, Jno. & Henry Reubel Co., Meeker av., Brooklyn, N. Y.

Linton, W. H. Co., Ogdensburg, N. Y.

Novelty Mfg. Co., Waterbury, Conn.

TURNER & SEYMOUR MFG. CO., Tor-
rington, Conn. (See adv. index, end of book)

Hardware Mfrs. (Wagon)

(See Firms in Hardware, Carriage, with the word Wagon following their names)

Hardware Trimmings (Porcelain)

(See Porcelain Specialties, Electrical, Mechanical, Etc.)

Hardware (Wholesale)

The firms under this classification are Wholesalers and firms who do Local Jobbing.

ALABAMA.

ANDALUSIA—Benson Hardware Co. (General Builders', Tools, Cabinet, Paints & Oils, etc.)

ANNISTON—Anniston Hardware Co. (General & Saddlery)

BIRMINGHAM—Crane Co. (General, Plumbers' & Machinery)

Moore & Handley Hardware Co. (Shelf, Heavy & Carriage)

Wimberly & Thomas Hardware Co. (General Heavy & Tools)

EUFAULA—Ross, J. L. (General)

EUTAW—Cook-Rogers Hardware Co. (General Builders', Tools, etc.)

EVERGREEN—Wild Bros. Hardware Co.

GADSDEN—Ewing Hardware Co. (General Saddlery, Mine, Mill & Furnace)

Smith-Echols-Burnett Hardware Co.

GREENVILLE—Johnson, J. F. Hardware Co.

HUNTSVILLE—Collins, M. A.

McAnelly, J. H. & Bro.

MOBILE—Barney-Cavanagh Hardware Co. (General, Heavy, Ship Chandlery, etc.) (Exporters)

Cunningham Hardware Co. (General & Heavy)

Price, H. M., Co. (General)

Stikes Hardware Co.

MONTGOMERY—Barnett, G. W., Hardware Co. (General)

Snow-Tullis Hardware Co. (General, Builders' & Tools)

Teague & Sons (General & Heavy)

OXFORD—Burton & Co.

ROANOKE—Griffen & Satterwhite

Roanoke Hardware Co.

SELMA—Robbins, J. H., & Sons Hardware Co.

Schuster, Benj. J. (General, Builders' & Selma Hardware Co. Heavy)

Tissler Hardware Co. (General)

TROY—Simpson, C. A. & Co.

FUSCALOOSA—Allen & Jemison Co. (General)

ALASKA TERRITORY.

JUNEAU—Jorgensen, J. P. & Co.

Young, C. W. Co.

NOME—Darling & Dean Hardware Co.

ARIZONA TERRITORY.

NOGALES—Gehler, Theo.

Marsh, Geo. B. (Inc.)

Proto Bros.

Roy & Titcomb (Heavy, etc.)

PHOENIX—Talbot & Hubbard

Thayer, Ezra W.

PRESCOTT—Hill, Samuel, Hardware Co.

SAFFORD—Olney Hardware Co.

TUSCON—Steinfeld, Albert & Co.

ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply Co.

FORT SMITH—Atkinson-Williams Hardware Co. (General & Heavy)

Speer Hardware Co. (General, Machinery, etc.)

Wehber-Ayers Hardware Co. (General & Heavy)

HARRISON—Lopp, A. J. & Co.

HELENA—Arkansas & Mississippi Hardware Co. (General, etc.)

Helena Hardware Co.

Tappan Hardware Co. (General, Builders' Tools, etc.)

HOT SPRINGS—Whittington, Stearns & Co. (General, Heavy & Carriage)

LITTLE ROCK—Fones Bros. Hardware Co.

Rose-Lyon Hardware Co. (General & Heavy)

MAGNOLIA—Warnock, W. H.

PINE BLUFF—Fox Bros. Hardware Co. (General)

McGaughey Hardware Co. (General & Stoves)

TEXARKANA—Chatfield & Buhrman Hardware Co.

Hoffman Hardware Co.

Texarkana Hardware Co.

CALIFORNIA.

LOS ANGELES—Baker & Hamilton (General, Heavy & Machinery)

California Hardware Co. (General, Builders' & Tools)

Cass-Smurr-Damerel Co. (Jobbing Agents)

(Stoves, Farming Tools, Hardware Specialties, etc.)

Davenport, L. M. Co. (Blacksmiths')

Ducommun Hardware Co. (General, Tools, etc.)

Harper & Reynolds Co. (General, Heavy, etc.)

Hoffman Hardware Co. (General & Heavy)

Holbrook, Merrill & Stetson (Stoves, Tinware, etc.)

Montague, W. W. & Co. (Stoves, Tinware, etc.)

Pacific Hardware & Steel Co. (All Lines in Iron & Steel)

Percival Iron Co. (Heavy Hardware & Blacksmiths' Supplies)

Union Hardware & Metal Co. (Heavy, Shelf, Oil Well, Brass, etc.)

Waterhouse & Lester Co. (Carriage & Heavy)

Wigmore, John & Sons Co. (Machine Tools, etc.)

MARYSVILLE—White, Cooley & Cutts

MODESTO—Turner Hardware & Implement Co.

Wood, W. B. & Son

OAKLAND—Western Heavy Hardware & Iron Co. (Inc.)

PASADENA—Crown Hardware Co.

PETALUMA—Schluckebier Hardware Co.

REDDING—McCormack-Saeltzer Co.

SACRAMENTO—Baker & Hamilton (General & Heavy)

Miller-Chapin-Enright Co. (Stoves, Tinware, Plumbers')

Schaw, Batcher & Co. (General & Heavy)

Thomson-Diggs Co. (General)

SAN DIEGO—Ingle, Samuel G. Co.

SAN FRANCISCO—Arnold Hardware Co. (Plumbers')

Baker & Hamilton (General & Heavy)

Dunham, Carrigan & Hayden Co. (General, Heavy, Railway, Steamship, Brass Goods, etc.)

Holbrook, Merrill & Stetson (Plumbers' & Tinnings, Tools, Machinery, etc.)

Montague, W. W., & Co. (Stoves, Tinware, etc.)

Pacific Hardware & Steel Co. (All Lines in Iron & Steel)
 Palace Hardware Co. (Machinists' Supplies)
 Pike, A. W., & Co. (Hardware, Tools, etc.)
 Sellers Bros. & Co. (Stoves, Tinware, etc.)
 Tay, Geo. H. Co. (Plumbers' Supplies, Stoves, etc.)
 Taylor & Spotswood Co. (Carriage, etc.)
 Waterhouse & Lester Co. (Carriage, Blacksmiths' & Horseshoers', etc.)
 SAN JOSE—Montague, W. W. & Co. (Stoves, Stock, Jno. Sons Tinware, etc.)
 STOCKTON—Austin Bros.

COLORADO.

ASPEN—Tomkins, L. H. Hardware Co.
 COLORADO SPRINGS—Lowell-Meserve Hardware Co.
 DENVER—Dillon Hardware Co. (Heavy & Blacksmiths' & Wagonmakers' Supplies, Moore Hardware & Iron Co. (General, Heavy, Carriage & Blacksmiths')
 Rowntree, Jno. T. (Mfrs. Agent)
 Titch, Geo. Hardware Co. (Gen'l & Heavy)
 LEADVILLE—Leadville Hardware Co.
 Tomklus, H. H. Hardware Co.
 NEVADA CITY—Nevada City Hardware Co.
 OURAY—Arps Bros. Hardware Co.
 PUEBLO—Holmes Hardware Co.
 Killin, Jno. M. & Co.
 TRINIDAD—Branson & Griswold Hardware Co.
 Brown, H. B. Hardware Co.

CONNECTICUT.

BRIDGEPORT—Chapman & Bangs Co. (Heavy & Carriage)
 Hawley Hardware Co. (Builders' & Mfrs.)
 Hawley, T. & Co. (General, Builders' & Tools)
 Hunter & Havens (General, Heavy, Carriage & Blacksmiths')
 Lyon & Grumman (General, Shafting & Tools)
 DANBURY—Danbury Hardware Co.
 Hull, F. A. & Son
 DERBY—Haddock, F. Co.
 HARTFORD—Blodgett & Clapp Co. (Importers) (Heavy & Carriage)
 Clapp & Treat (General & Sporting)
 Cone, J. H. & W. E. (Builders')
 Ensworth, L. L. & Son (Heavy, Mill & Carriage)
 Francis & Co. (Builders', Shafting, etc.)
 Tracy, Robinson & Williams Co. (General, Tools, etc.)
 MERIDEN—Church & Morse (General & Heavy)
 NEW BRITAIN—Abbe, A. H. & W. E.
 NEW HAVEN—Bronson & Townsend Co. (General)
 Bushnell, N. T. Co. (General, Tools, etc.)
 Mersick, C. S. & Co. (General, Heavy, Carriage, Tinners', Plumbers', Mill, etc.)
 Weed & Co. (Saddlery)
 NEW LONDON—Guest & Co. (Carriage, Blacksmiths', Heavy, etc.)
 Williams, G. M. Co. (Inc.) (General & Heavy)
 NORWICH—Eaton, Chase & Co. (General, Mill, Electrical, etc.)
 Preston Bros. (General, Electrical, etc.)
 SHELTON—Clark, D. N.
 WATERBURY—Hotchkiss & Templeton (General & Heavy)
 WILLIMANTIC—Jordan Hardware Co. (General & Sporting)

DELAWARE.

WILMINGTON—Capelle Hardware Co. (General & Heavy)
 Delaware Hardware Co. (Builders', Coach & Heavy)

DISTRICT OF COLUMBIA.

WASHINGTON—Rowen, Wm. F. (General)
 Kendall, J. Blake (Coach, Metals, etc.)
 May, F. P. Hardware Co. (General, Heavy & Cordage)

FLORIDA.

APPALACHICOLA—Ruge, Herman & Sons
 BRADENTOWN—Bradentown Hardware Co.
 GAINESVILLE—Balrd Hardware Co. (General & Heavy)
 JACKSONVILLE—Balfe-Conroy Co. (General, Builders', Tools, etc.)
 Florida Hardware Co. (Inc.) (General & Heavy, Pumps, etc.)
 Hubbard, S. B. Co. (Inc.) (General & Heavy, Boilers, Plumbers', etc.)

OCALA—Marion Hardware Co. (General, Mill & Mining)
 PALATKA—Griffin, Martin & Co. (General & Kennerly, Hardware Co. Heavy)
 PENSACOLA—Avery Hardware & Supply Co.
 ST. AUGUSTINE—Hamblen, C. F. (General Heavy, Saddlery, etc.)
 SANFORD—Fernald, Geo. H., Hardware Co. (General & Heavy)
 TAMPA—Knight & Wall Co. (Inc.) (Exporters General & Heavy)
 Tampa Hardware Co. (General)

GEORGIA.

AMERICUS—Sheffield-Huntington Co. (Inc.) (General, Heavy, Saddlery, Agrl. Impls. etc.)
 ATHENS—Athens Hardware Co. (Inc.) (General, Heavy, Carriage, etc.)
 Fleming-Dearing Hardware Co. (General)
 Talmage Hardware Co.
 ATLANTA—Alexander, J. M., & Co.
 Auderson Hardware Co. (General)
 Beck & Gregg Hardware Co. (General, Heavy & Carriage)
 Dinkins-Davidson Hardware Co. (General, Heavy & Carriage)
 Hightower & Graves Co. (Inc.) (General)
 King Hardware Co. (General, Tinware, etc.)
 Kirkpatrick Hardware Co.
 Stone, F. I. & Co. (Mfrs'. Agents)
 AUGUSTA—Ramsey-Trowbridge-Smith Co.
 Tarver, J. E.
 COLUMBUS—Bush-Phillips Hardware Co. (General)
 CORDELE—Watt & Holmes Hardware Co.
 DALTON—Bishop Hardware Co. (General)
 FITZGERALD—Watt & Holmes Hardware Co. (General)
 GAINESVILLE—Davidson & Pruitt Hardware Co. (General)
 HAWKINSVILLE—Whitfield Hardware Co.
 McRAE—Polson & Tillman
 MACON—Duulap Hardware Co. (General, Heavy, etc.)
 Merritt Hardware Co. (General, Heavy, etc.)
 ROME—Griffin Hardware Co. (Inc.) (General, Tinware, etc.)
 Rome Hardware Co. (Inc.) (General, Tinware, etc.)
 Terhune, Nixon & Co. (General)
 SAVANNAH—Balfour & Calvitt
 Lovell's, Edw. Sons (General, Heavy & Carriage)
 Peeples, H. H. & Sons (General)
 Semmes Hardware Co. (General, Cutlery, etc.)
 Weed, J. D. & Co. (General, Heavy, Railway Carriage, Terne Plate, etc.)
 VALDOSTA—Briggs, W. H. Hardware Co.
 Thomas-Dekle Hardware Co.
 WAYCROSS—Watt Hardware Co.

IDAHO.

BOISE—Carlson-Lusk Hardware Co. (General, Mining, etc.)
 Northrop Hardware Co. (General, Heavy, etc.)
 WALLACE—Coeur d'Alene Hardware Co. (General, Mining, etc.)

ILLINOIS.

BLOOMINGTON—Holder-Athey Hardware Co.
 CAIRO—Woodward Hardware Co. (General & Heavy)
 CHICAGO—Allerton, Clarke Co., 118 Lake
 Besly, C. H. & Co. (Jobbers, Brass Goods, etc.), 15 Clinton
 Bullard & Gorinley Co. (General, Cutlery, Tools, Tin Plate, Sheet Iron, Metals), 75 Randolph
 Chicago Housewrecking Co. (Jobbers, Mach Hdw., etc.), 35th & Iron
 Hibbard, Spencer, Bartlett & Co. (General Household, Cutlery, Tin Plate, Wooden ware, Paints, Oils, etc.), 1 State
 Hodge & Homer Co., 58 W Madison
 Jones & Laughlin Steel Co. (Heavy, Railroad Supplies, Swedish Iron, etc.), Lake & Canal
 Kelley, Maus & Co. (Wagon, Carriage Blacksmiths', Iron, Steel, Woodstock, etc.), 1168 S Ashland av
 McVoy, Wessling Hardware Co., 75 Lake
 Orr & Lockett Hardware Co. (General Butchers' Tools & Refrigerators, Kitchen Furnishings), 71 Randolph
 Rehm Hardware Co. (General), 352 Blue Island av
 Ryerson, Joseph T. & Son (Heavy, Iron & Steel Sheets, Plates, Bands, Bars, Angles, Boiler Mfrs'. Supplies, etc.), 16th & Rockwell

Silverman, Emanuel (Cabinet), 90 Franklin
 Stewart, A. T., Hardware Co., 105 Lake
 Trout Hardware Co. (General, Cutlery, Tools, Kitchen, etc.), 47 Lake
 DANVILLE—Ycomians & Shedd Hardware Co. (General & Heavy)
 DECATUR—Moorehouse & Wells (General, ELGIN—Barclay, D. F. Heavy, Stoves, etc.)
 Hawthorne Hardware Co.
 FREDERICK—Weiss & Co.
 JOLIET—Barrett Hardware Co. (General & Heavy)
 MENDOTA—Holland & Co.
 PEKIN—Velde, Roelfs & Co. (Shelf, Heavy, Carriage & Tools)
 PEORIA—Clark, Quilen & Morse (General, Tinners' Stock, etc.)
 Cummings & Emerson (Heavy, Carriage, etc.)
 Walker, Isaac Hardware Co. (General, Tinners', Guns, etc.)
 QUINCY—Cottrell Hardware Co. (General, Cutlery, etc.)
 Gauthier Hardware Co.
 Tenk Hardware Co. (General, Heavy, Cutlery, etc.)
 ROCK ISLAND—Rock Island Hardware Co. (General & Heavy)
 SPRINGFIELD—Miller, W. B. & Son
 STREATOR—Powers & Williams

INDIANA.

BLUFFTON—Williamson Hardware Co.
 COLUMBUS—Schwartzkopf, J. G., & Son
 CRAWFORDSVILLE—Crawfordsville Hdw. Co. (General)
 EVANSVILLE—Boettlicher - Kellogg Co. (General, Guns, Tinware, etc.)
 Clifford Hardware Co. (General)
 Orr Iron Co. (Heavy, Blacksmiths', etc.)
 FORT WAYNE—Fort Wayne Iron Store Co. (Carriage & Wagon)
 Mossman, Yarbelle & Co. (Heavy & Carriage)
 Pfeiffer, Henry & Son (General)
 Schlatter, C. C. & Co. (General, Builders', Seavey Hardware Co. Mill, etc.)
 FRANKFORT—Dunwiddle & Gaddis
 GOSHEN—Hawks Hardware Co. (General)
 HUNTINGTON—Reichenbach & Wickenhiser
 INDIANAPOLIS—Builders' Supply Corporation (General, Builders', Paints, Oils, etc.)
 Francke Hardware Co. (Cabinet, Builders', Tools, Upholstery Goods, etc.)
 Holliday, W. J. & Co. (Heavy, Carriage, Shafting, Machine Shop Supplies, Wood-Layman-Carey Co. (General) stock, etc.)
 Lilly & Stalnaker (General)
 Van Camp Hardware & Iron Co. (General, Heavy, Carriage & Wagon Stock, Tinners', Window Glass, Paints, etc.)
 Vonnegut Hardware Co. (Builders', Cabinet, Heavy, Mill Supplies, etc.)
 KOKOMO—Armstrong, Landon Co.
 LAFAYETTE—Howe & Shipley (General, Stoves, Tinware, etc.)
 LOGANSPOUT—Ullery, S. W. & Son
 MARION—Marion Hardware Co.
 MICHIGAN CITY—Staiger Hardware Co.
 MUNCIE—Kimbrough Hardware Co.
 NORTH VERNON—Tripp Bros. (General & Farm Machinery)
 RICHMOND—Jones Hardware Co. (General, Agricultural Implements, etc.)
 Pogue, Miller & Co. (General Cutlery, etc.)
 SOUTH BEND—Shibley, I. A. (General)
 TERRE HAUTE—Austin Hardware Co.
 Smith, C. C., Sons Co.
 Townley Hardware & Stove Co. (General, Tinners' Supplies, etc.)
 WASHINGTON—Carnahan, M. J. Co. (General)

IOWA.

BURLINGTON—Burlington Mfg. & Jobbing Co. (Heavy, Carriage, Plow, etc.)
 Donahue, Robert Iron & Hardware Co. (Heavy, Blacksmiths', Carriage, etc.)
 Drake Hardware Co. (General)
 CEDAR RAPIDS—Larimer, E. K. (Heavy & Wagon Stock)
 CLINTON—Armstrong, C. E. & Co. (General)
 Baldwin Bros. (Heavy, Carriage, etc.)
 COUNCIL BLUFFS—Empley-Shugart-Mill Co. (General)
 DAVENPORT—Hanssen's, Louis, Sons
 Lamp, Peter, Iron Co. (Heavy, Wagon, Blacksmiths', etc.)
 Reynolds Hardware Co.
 Sickles, Preston & Nutting Co. (General)
 Sleg Iron Co. (Heavy)
 DES MOINES—Brown-Hurley Hardware Co. (General, Cutlery, etc.)
 Des Moines Iron Co. (Heavy, Carriage, etc.)
 Luther Hardware Co. (General, Cutlery, Tinware, etc.)

DUBUQUE—Ernsdorff, John Iron Co. (Heavy, Carriage, etc.)
Tredway, A. & Sons Hardware Co. (General, Heavy, Cutlery, etc.)
FORT DODGE—Pruisla Hardware Co. (General, Vincent, H. S. Heavy, Tinware, etc.)
KEOKUK—Weber, A. Co. (General, Heavy, etc.)
LAKE MILLS—Styve Bros.
MARSHALLTOWN—Abbott & Son
OSKALOOSA—Huber & Kalbach Co. (General, Heavy, etc.)
OTTUMWA—Harper & McIntire Co. (General, Stoves, Cutlery, etc.)
Haw & Simmons Co. (General, Heavy, Miners', etc.)
SIOUX CITY—Knapp & Spencer Co. (General, Stoves, Ranges, Heaters, etc.)
Sloux City Iron Co. (Heavy)
WATERLOO—Cutler Hardware Co. (General, Cutlery, Tools, etc.)

KANSAS.

ATCHISON—Blish, Mize & Silliman Hardware Co. (General)
Harwi, A. J. Hardware Co. (General & Heavy)
EMPORIA—Haynes Hardware Co. (General)
FORT SCOTT—Lenneman, A. C. & Son
HUTCHINSON—Colladay, Frank Hardware Co. (General, Tinware, etc.)
LEAVENWORTH—Crauer, J. W. Hardware Co. (General, Tinners', etc.)
PARSONS—Steele Hardware Co.
SALINA—Lee Hardware Co. (General & Heavy)
TOPEKA—Culver, Wm. E. (General & Tinware)
Forbes, D. H.
Thompson, W. A. L. Hardware Co. (General, Heavy, Carriage, etc.)
WICHITA—Shattuck-George Iron Co. (Heavy & Blacksmiths')

KENTUCKY.

ASHLAND—Henderson Hardware Co. (General, Mill, Mine, etc.)
CATTLETTSBURG—Mims, A. Co. (General & Williamson, Ben. Hardware Co. Heavy)
HENDERSON—Blackwell, P. A. & Co. (General)
HOPKINSVILLE—Forbes Mfg. Co. (General, Tinware, etc.)
LEXINGTON—Smith, Watkins & Co.
Van Deren Hardware Co. (General & Heavy)
LOUISVILLE—Belknap Hardware & Mfg. Co. (Inc.) (General, Heavy, Carriage, Saddlery, Fire Arms, Agricultural Implements, Roofing, Rope, Belting, Household, etc.)
Floyd & Bohr Co. (General, Saddlery, Tinware, etc.)
Fulton, Conway & Co. (Wagon & Carriage Makers' Tools, Supplies & Hardware, Wire Hidden, Otis Co. (Cabinet) Nails, etc.)
Robinson Bros. & Co. (General, Cutlery, Saddlery, Guns, Agr'l Impl'ts, Paints, etc.)
Stratton & Terstegge Co. (General, Stoves, Tinware, Tinners' Supplies, Woodenware, Roofing, etc.)
Todd-Donigan Iron Co. (Heavy, Wagon Makers' & Blacksmiths' Tools, Mine, Quarry & Railroad Supplies)
MAYSVILLE—Owens, Frank Hardware Co.
OWENSBORO—Guenther, W. A. & Sons (General, Heavy & Carriage, Railroad, Blacksmiths' & Miners' Supplies, etc.)
PADUCAH—Hank Bros. (General)
Hart, G. O. & Sons Co. (General, Heavy, Carriage, etc.)
PAINTSVILLE—Big Sandy Hdw. Co. (General)

LOUISIANA.

ALEXANDRIA—Alexandria Hardware Co. (Ltd.) (General)
BATON ROUGE—Doherty Hardware Co. (General, Cordage, etc.)
Enqua Hardware Co. (General)
MONROE—Mourae Hardware Co. (General)
NEW ORLEANS—Baldwin, A. & Co. (General, Heavy, Stoves, Machinery, Mill Supplies, Agr'l Impl'ts, Crockery, etc.)
Pltard's, G. Sons (General, Paints, Wall paper, etc.)
Stauffer, Esbleman & Co. (Ltd.) (General, Heavy, Stoves, Cutlery, Fire Arms, etc.)
United Hardware Co. (General & Heavy)
Woodward, Wight & Co. (Ltd.) (General, Heavy, Cutlery, Mill Supplies, Ship Chandlery, etc.)
RUSTON—Ruston Hardware & Supply Co. (General & Mill Supplies)
SHREVEPORT—Lee Hardware Co. (General, Cutlery, Stoves, Glassware, etc.)
Vordenhanmen-Eastham Co. (Ltd.) (General, Heavy, Agr'l Impl'ts, Crockery, etc.)
THIBODAUX—Planters' Hardware & Mill Supply Co. (General, Heavy, Cutlery, Mill Supplies, etc.)

MAINE.

AUGUSTA—Brooks Hardware Co.
Ward, A. D.
BANGOR—Bragg, N. H. & Sons (Heavy, Carriage, etc.)
Dickey, Wm. P. & Co. (General)
Haynes & Chalmers Co. (General, Heavy, Saddlery, etc.)
Rice & Miller (General, Explosives, etc.)
BATH—Johnson Bros. (General, Heavy, Ship Chandlery)
BRUNSWICK—Eaton Hardware Co. (General)
EASTPORT—Wadsworth, S. L. & Son
HOULTON—Watson, John Co. (General, Cutlery, Agr'l Impl'ts, etc.)
LEWISTON—Hall & Knight Hardware Co. (General, Plumbers', Pipe, etc.)
PORTLAND—Bailey, Jas. Co. (Saddlery)
Corey, E. & Co. (Heavy, Wagonmakers', Blacksmiths' & Lumbermen's Supplies)
Edwards & Walker Co. (General & Heavy)
Emery-Waterhouse Co. (General & Heavy)
King & Dexter Co. (General, Cutlery, etc.)
Tulbot, Brooks & Ayer (General)
ROCKLAND—Crle, H. H. & Co. (General)

MARYLAND.

BALTIMORE—Anderson & Ireland Co. (General, 123 Light)
Carlin & Fulton (General, Cutlery, Paints, etc.), 309 W German
Cole, W. H. & Sons (General, Heavy, Cutlery, Explosives, Contractors' & Electrical Supplies), 40 S Charles
Dner, Jno. & Sons (Cabinet), 36 S Charles
Duke-Peterson Hardware Co. (General, Heavy, Cutlery & Fire Arms), 113 W German
Edmunds & Galloway (Builders', Cutlery, Fire Arm, etc.), 121 W Pratt
Hardware Supply Co. (General, Cutlery, Guns, etc.), 119 S Paca
Hubbard & Eagleston (Builders', Stable Fixtures, Cutlery, Tools, etc.), 120 W Baltimore
Johnson & Johnson (Carriage), 130 Light
Keldei, Henry, & Co. (Shelf, Heavy, etc.), 405 W German
Nelly, Joseph W. (Marine), 1731 Thames
Norris, R. W. & Sons (Carriage), 346 N Gay
Payne, E. Scott & Co. (Carriage, Builders', Horseshoers' Supplies, etc.), 362 N Gay
Stewart-Crook Hardware Co. (Builders', 7 N Liberty
Whiting, W. H. & Co. (Marine), 222 E Pratt
Wilcox Hdw. & Iron Co. (Gen'l), 406 N Gay
CUMBERLAND—Potomac Hardware Co.
Wilson & Pugh (General, Mining & Mill Supplies)
FREDERICK—Hargett, P. L. & Co.
SALISBURY—Dorman & Smyth Hardware Co.
Gunby, L. W. & Co. (General, Machinery, etc.)

MASSACHUSETTS.

BOSTON—Allen & Lotts (Cabinet), 169 Sumner
Baldwin & Robbins Co. (General, Farming Tools, Cutlery, Paints), 124 High
Bigelow & Dowse Co. (General, Heavy, Builders', Machinists', Mine, Skates, Cutlery, Household, etc.), 229 Franklin
Burditt & Williams Co. (General & Builders', "Marty" Mouse & Rat Traps), 4 High
Butts & Ordway Co. (Heavy & Carriage), 33 Purchase
Chandler & Barber (Tools, Cutlery & Builders'), 124 Summer
Chandler & Farquhar (General, Machine Tools & Machinists' Supplies), 36 Federal
Chase, Parker & Co. (Heavy, Carriage, etc.), 83 Pearl
Cutter, W. Bowman (General), 2306 Washington, Rox
Dana Hardware Co. (General, Cutlery, Firearms, Saddlers', Cordage, etc.) (Exporters), 28 Pearl
Eldridge & Winnick (General, Tools & Woodware), 128 Pearl
Evans, McVoy & Co. (General, Machinists' & Carpenters' Tools, Cutlery, Cabinet & Furniture), 41 Washington
Frye, Phipps & Co. (General, Woodware, etc.), 23 Pearl
Hardware Agency Co. (Mfrs', Agents (Builders'), 224 Franklin
Wilkinson, A. J. & Co. (General, Tool Steel Tools, Sheet Brass, Rods & Wire), 180 Washington
FALL RIVER—Congdon, Carpenter & Co. (Heavy, Carriage & Blacksmiths)
Neill, Joseph O.

FITCHBURG—Fitchburg Hardware Co. (General & Heavy, Agr'l Tools, etc.)
Lawrence, Albert B. (General & Carriage)
HAVERTHILL—Hanscom Hardware Co. (General, Blacksmiths', etc.)
Bartlett, W. T. S. (General & Agr'l Tools)
Boutwell Bros. (Heavy, Carriage & Blacksmiths')
Thompson Hardware Co. (Builders', Cutlery, Tools)
LYNN—Collins Hardware Co. (General)
Hutchinson, W. Henry (Est. of) (General)
MIDDLEBORO—Pierce, Thos. W.
NEW BEDFORD—Butler, Wm. P. (General, Tinware, Cutlery, Tools)
NORTH ADAMS—Burlingame & Darlys (General & Heavy)
PALMER—Buck & Co. (General, Saddlery, etc.)
SPRINGFIELD—Chapman & Brooks Co. (General)
Foot, Homer & Co. (General, Heavy, Carriage, etc.)
Graves, Geo. A. & Sons (General, Heavy, Builders', Tools, etc.)
Law, J. Douglas (Builders', Cutlery, Tools, etc.)
Lewis, Charles C. Co. (Carriage & Heavy)
TAUNTON—Pierce Hardware Co.
Washburn, Frank R.
WORCESTER—Blake, Geo. F., Jr., & Co. (Heavy, Carriage, etc.)
Duncan & Goodell Co. (General, Cutlery, Tools, etc.)
Walte, H. M. (General, Builders' Tools, etc.)
Worcester Hardware Co. (Builders', Cutlery, Tools, etc.)

MICHIGAN.

ALPENA—Potter Bros.
BAY CITY—Bay City Hardware Co.
Bialy Hardware & Supply Co.
Jennison Hardware Co. (General & Heavy)
CALUMET—Carlton Hardware Co.
CHEYBOYGAN—De Gowin, Isaiah E.
DETROIT—Buhl Sons Co. (Heavy, Shelf, Builders', Cutlery, Tin Plate, Metals, Iron & Steel, etc.), 103 Woodbridge, W
Fletcher Hardware Co. (General, Household, Cutlery, etc.), 61 Woodbridge, W
Freeman, Delamater & Co. (General, Heavy, Cutlery, Iron & Steel), 8 Woodward av
Rayl, T. B., Co. (General, House Furnishings, etc.), 112 Woodward av
Roehm & Davison (Heavy & Carriage), 93 Woodbridge av
Standart Bros. (Ltd.) (General), 155 Woodbridge
Weber, Henry C. & Co. (General, Household, etc.), 10 Gratiot
ESCANABA—Delta Hardware Co. (General & Heavy)
GRAND RAPIDS—Clark-Rutka-Weaver Co. (Shelf, Heavy, Cutlery, Tools, etc.)
Foster, Stevens & Co. (General, Heavy, Kutsche, Wm. P. Sporting Goods)
Van Bree, Arie
HOUGHTON—Swift, L. E., Co. (General & Heavy)
JACKSON—Smith-Winchester Co. (General, Heavy, Carriage, etc.)
KALAMAZOO—Edwards & Chamberlain Hardware Co. (General, Heavy & Carriage)
MANISTEE—Wolters-Buley Co. (General)
MARQUETTE—Manhard, M. R. & Son (General & Heavy)
MENOMINEE—Northern Hardware & Supply Co. (General, Heavy, Tools, etc.)
MONROE—Steiner, Wm. (General, Heavy, etc.)
PETOSKEY—Northern Hardware Co. (General, Reynolds, Chas. A. (General)
PORT HURON—Beard, Campbell & Co. (General, Heavy, Carriage, etc.)
Boyce Hardware Co. (General, Heavy, Tinware, etc.)
SAGINAW—Buckhout Hardware Co. (General)
Morley Bros. (General, Heavy, Saddlery, Carriage, etc.)
Saginaw Hardware Co. (General, Heavy, etc.)
SAULT STE MARIE—Soo Hdw. Co. (General & Heavy)
MINNESOTA.
DULUTH—Kelley-How-Thompson Co. (General, Heavy, etc.)
Marshall-Wells Hardware Co. (All Lines in Steel & Iron)
MINNEAPOLIS—Derickson, G. P. & Co. (Cabinet)
Hurty-Simmons Hardware Co. (General, Farming Tools, etc.)

Janney, Semple, Hill & Co. (General, Cutlery, Shelf & Heavy, Plumbers', Tinware, Sheet Metal, Firearms, Cordage, Rope, etc.)
 Minneapolis Iron Store Co. (Heavy, Blacksmiths', Wagonmakers' & Machinists' Tools & Supplies)
 Morison, W. K., & Co. (also Retail) (Household, Fancy, Builders', etc.)
 Williams Hardware Co. (Heavy, Wagonmakers' & Blacksmiths' Supplies)
 OWATONNA—Thompson, J. M. & Son Hardware Co. (General)
 ST. PAUL—Decker, Adam, & Co. (General, Tinners' Supplies, Cutlery, etc.)
 Farwell, Ozmun, Kirk & Co. (General, Tinners' Tools & Supplies, Butchers' Tools & Supplies, Builders', Household, Saddlery, etc.)
 Hackett-Walther-Gates Hardware Co. (General, Builders', Tools, Tinners' Stock, Cutlery, Shelf, Wagon & Saddlery, etc.)
 Nicols, Dean & Gregg (Heavy, Iron Steel, Lumbermen's Supplies, etc.)
 STILLWATER—Stillwater Hardware Co.
 WINONA—Cone, R. D., Co. (General)

MISSISSIPPI.

ABERDEEN—Lann & Carter Hardware Co. (General)
 COLUMBUS—Columbus Hardware & Furniture Co.
 GREENWOOD—Henderson & Balrd (General & Heavy)
 Mann Hardware Co. (General & Heavy)
 JACKSON—McClelland, Thos. Hardware Co.
 MERIDIAN—Melton Hardware Co. (General, Cutlery, etc.)
 Meyer-Neville Hardware Co. (General, Ship Chandlery, etc.)
 NATCHEZ—Baker & McDowell Hardware Co. (General, Agr'l Impl'ts, Crockery, etc.)
 Schwartz & Stewart (General, Agr'l Impl'ts, etc.)
 VICKSBURG—Hoffman, Louis Hardware Co.
 Richardson-Lee & Co. (General, Tinware, etc.)
 Wright Bros. Hardware Co. (General)
 YAZOO CITY—Crane-Hinman Hardware Co. (General)
 Yazoo Hardware Co. (General & Heavy)

MISSOURI.

CLINTON—Haysler Hardware Co.
 DEXTER—Miller, Ulen & Carter
 HANNIBAL—Kanstner, Wm. (General)
 JEFFERSON CITY—Lohman, L. C.
 JOPLIN—Joplin Hardware Co.
 KANSAS CITY—Bunting-Stone Hardware Co. (General)
 Curtin & Clark Hardware Co.
 Richards & Conover Hardware Co. (Heavy, Shelf, Tin, etc.)
 Townley Metal & Hardware Co. (General, Tinware, Plumbers', etc.)
 Wengert-Bishop Hardware Co.
 NEOSHA—Briggs-Centers Hardware Co. (General & Heavy)
 SEDALIA—Knight-Marshall-Howe Hdw. Co. (General, Heavy, Carriage, etc.)
 ST. JOSEPH—Burgess-Frazier Iron & Hardware Co. (Heavy, Carriage, etc.)
 Curtin & Clark Hardware Co. (Cutlery & Specialties)
 Robison Heavy Hardware Co. (Heavy & Carriage)
 Wyeth Hardware & Mfg. Co. (General, Heavy & Saddlery)
 ST. LOUIS—Geller, Ward & Hasner Hardware Co. (General, Tinware, etc.)
 Norvell-Shanleigh Hardware Co. (General, Cutlery, Household, Cordage, etc.)
 Rubelman-Lucas Hardware Co. (Heavy, Mfrs.' Supplies)
 Schroeter Bros. Hardware Co. (General)
 Simmons Hardware Co. (General, Builders', Farming Tools, Cutlery, Household, Tinners' Tools & Supplies, Metal Roofing, Paints, Oils, etc.)
 Wachter, Emil, & Son Hardware Co.
 Witte Hardware Co. (General, Cutlery, Household, etc.)
 SPRINGFIELD—McGregor-Noe Hardware Co. (General, Builders', Cutlery, etc.)
 Rogers & Baldwin Hardware Co. (Heavy, Carriage, etc.)
 WEBB CITY—Franz Hardware Co. (General)

MONTANA.

ANACONDA—Anaconda Copper Mining Co. Stagg, J. P. (General, Heavy & Mining)
 BILLINGS—Rabcock, A. L. Hardware Co.
 Billings Hardware Co. (General & Heavy)

BUTTE—Anaconda Copper Mining Co.
 Davis, John E. (General)
 Montana Hardware Co. (General, Heavy & Mining)
 GREAT FALLS—Murphy-MacClay Hardware Co. (General, Heavy, Carriage, etc.)
 Northern Hardware Co.
 HELENA—Helena Hardware Co. (General)
 Holter, A. M. Hardware Co. (General, Heavy, Mining, etc.)

NEBRASKA.

FREMONT—Lee-Miller Hardware Co. (General)
 HASTINGS—Lawson, C. K., Hardware Co.
 LINCOLN—Nebraska Hardware Co. (General, Heavy, etc.)
 OMAHA—Baum Iron Co. (Heavy, Carriage, Tools, etc.)
 Lee-Glass-Andresen Hardware Co. (General)
 Morton, Jas. & Son Co. (General)
 Wright & Wilhelmy Co. (General)
 SEWARD—Goehner, J. F. & Bro. (General)

NEW HAMPSHIRE.

CONCORD—Thompson & Hoague Co. (General, Heavy, Carriage, etc.)
 MANCHESTER—Manchester Hardware Co. (General & Heavy)
 Varick, John B. Co. (General, Heavy, Carriage, etc.)

NEW JERSEY.

ELIZABETH—Elizabeth Hardware Co. (General)
 MORRISTOWN—Phillips & Day
 NEWARK—Banister & Pollard Co.
 Crane Co. (Heavy, Factory & Mill Supplies)
 Crane & Milligan (General, Plumbers' Supplies, etc.)
 Gray, Robert, Jr. (General & Heavy)
 Macknet & Doremus (General, Heavy, Plumbers', etc.)
 Rising & Thorne
 Roe & Conover (General, Heavy, Plumbers', Steamfitters', Tools)
 PATERSON—Cleveland, J. W. (General, Butchers' & Grocers' Supplies)
 Doremus & Snyder (General & Blacksmiths' & Wheelwrights' Supplies)
 Mills, H. W. & Co. (General & Heavy)
 Myers, Geo. A. & Co. (Builders', Mill, Factory & Plumber's Supplies)
 Van Winkle, J. A. Co. (General & Heavy)
 TRENTON—Katzenbach, F. S., Co.

NEW MEXICO.

ALBUQUERQUE—McIntosh Hardware Co. Whitney Co.
 ROSWELL—Roswell Hardware Co.
 SILVER CITY—Cosgrove, E.

NEW YORK.

ALBANY—Albany Hardware & Iron Co. (General, Heavy, etc.)
 Waterman Hardware Co. (General, Tools, etc.)
 Woodward Co. (Carriage, Wagon, Saddlery, etc.)
 ALBION—Waterman, G. M.
 AMSTERDAM—Larrabee, John E. (General & Heavy)
 BATH—Peck, Geo. W. Co.
 BINGHAMTON—Babcock, Hinds & Underwood (General & Heavy)
 Crocker & Ogden (General, Heavy, Carriage, etc.)
 Harris, Geo. M.
 BUFFALO—Beals & Co. (General, Heavy, Carriage, Mill & Factory Supplies). 44 Terrace
 Bergman Bros. (General & Household). 102 Seneca
 Buffalo Wholesale Hardware Co. (General & Heavy). 317 Washington
 Enos & Sanderson Co., 41 Carroll
 Hauck, Adam & Sons, 505 Main
 Taylor, H. D. Co., 103 Oak
 Walbridge & Co. (General & Household). 392 Main
 Weed & Co. (General, Heavy, Cutlery, Tools, Railway & Shop Supplies, Silverware, etc.)
 COHOCTON—Peck, Geo. W. Co.
 ELLENVILLE—Du Bois, L. & Co.
 ELMIRA—Barker, Rose & Clinton (General & Heavy)
 Booth, Irving D. (Heavy)
 Gridley, G. A. & Sons (General & Heavy)
 FORT PLAIN—Williams & Tanner Co. (General)
 GLENS FALLS—De Long's Sons
 GLOVERSVILLE—Ratcheller, E. S. & Co.
 Durkee, E. L. & Co.
 HORNE—Peck, Frank B. Co. (General)
 ITHACA—Rumsey, C. J. & Co.
 Treman, King & Co. (General)
 KINGSTON—Johnson, J. T. (General & Heavy)
 Winne, L. S. & Co. (General, Blacksmiths', etc.)
 LITTLE FALLS—Skinner & Oyston

LOCKPORT—Chadwick & Morris
 MALONE—Thompson, H. D. & Co. (Heavy, Saddlery, etc.)
 Wilding, C. W. Co. (General & Heavy)
 MEDINA—Hanton Bros.
 NEWBURGH—Lawson Hdw. Co.
 Van Cleft, Joseph, & Co.
 Van Duzer, J. H. & Co. (General)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Kiley, Thos. W. & Co., 57 Grand Ring, Chas. E., 423 Kent av

Boroughs of Manhattan & Bronx.

NEW YORK—Alder, Benj. S. Co. (Mfrs.' Agents & Exporters), 37 Warren
 Baker & Hamilton (General, Agr'l Impl'ts, etc.), 257 B'way
 Barron, Jas. S. & Co. (Woodenware, Skates, etc.) (Exporters), Franklin & W B'way
 Baynon, O. A. Co. (Jobbers & Commission) (General & Heavy), 99 Reade
 Biddle Purchasing Co. (Purchasing Agents & Commission Buyers), 78 Reade
 Blumberg, W. L. & Co., 97 Chambers
 Boker, Hermann & Co. (Importers of Hardware, Cutlery, etc.), 101 Duane
 Braunsfels, Browning & Co., 1940 Park av
 Brombacher, A. F., & Co., 31 Fulton
 Burger & Baumgard (Cutlery, etc.) (Jobbers & Exporters), 105 Chambers
 Carpenter & Bayles (Hardware, Handles, etc.) (Domestic & Export), 91 Chambers
 Carter, R. K. & Co. (Purchasing Agents & Commission Buyers), 66 Reade
 Cavanagh Bros. & Co. (Woodenware & House Furnishings), 48 Duane
 Curtiss, Geo. B. (Mfrs.' Agent) (Tools & Hardware Specialties), 84 Chambers
 Driescher, S. R. (Importer of Razor Hones, Cutlery & Hardware Specialties)
 Duryee House Furnishing Co. (Jobbers & Retailers of General Hardware), 66 Vesey
 Eggers, Aug. (Exporter) (Hardware, Implementations, Gas & Steam Fitters' Specialties). 97 Warren
 Field, Alfred & Co. (Importers & Exporters) (Cutlery, Guns, Anvils, Chains, etc.), 93 Chambers
 Fox, Wm. B. & Bro. (Importers & Exporters, Purchasing Agents & Commission Buyers), 21 Warren
 Frasse, Peter A. & Co. (Importers, Jobbers, etc.) (Mechanics' Tools, etc.), 94 Fulton
 Frasse & Co. (Importers, Jobbers, etc.) (Mechanics' Tools, etc.), 134 Liberty
 Gifford, Jno. A. & Son (Exporters & Importers of Carriage Hardware & Supplies), 25 Park pl
 Goldberg, Chas H. & E. S. (Importers & Exporters) (Woodenware, Cordage, etc.), 114 Reade
 Graham, Jno. H. & Co. (Mfrs. & Mfrs.' Agents & Exporters of Hardware, Tools & Specialties), 113 Chambers
 Halpin, Matthew D., 62 Reade
HAMMACHER, SCHLEMMER & Co., 131 4th av. (See adv. index, end of book)
 Hardware Jobbers' Purchasing Co. (Purchasing Agents & Commission Merchants), 71 W B'way
 Harmon & Dixon (Mfrs.' Agents, Hardware & Specialties), 117 Chambers
 Harris, Delancey P. (Mfrs.' Agent & Commission Merchant, Domestic & Export), 48 Warren
 Hendricks & Class (Mfrs.' Agents) (Heavy, & Marine, Tools, Ship Chandlery, Railway & Dock Builders Supplies, etc.), 25 W B'way
 Jacobus, Wm. H. (Mfrs.' Agent) (Builders & General, Specialties), 155 Chambers
 Jennings, C. E. Co. (Mfrs.' Agents & Exporters) (Mechanics' Tools & Specialties), 42 Murray
 Kleine, Wm. E. & Co. (Wagon & Carriage Materials), 120 W B'way
 Larkin, J. K. & Co. (Jobbers, Nails, etc.), 290 B'way
 McCarty, J. C. & Co. (Mfrs.' Agents) (General & Blacksmiths', Machinists, & Garden Tools, etc.), 21 Murray
 McCoy, Jos. F. Co. (Mfrs.' Agents, Importers & Exporters of Heavy Hardware, Cutlery, Tools, etc.), 157 Chambers
 Manning, Maxwell & Moore (Railway & Machine Tools & Supplies), 85 Liberty
 Markt & Co. (Importers & Jobbers) (House Furnishing Goods & Hardware Specialties), 193 West

Masbach Hardware Co. (General, etc.), 84 Warren
 Montgomery & Co. (Tools & Supplies for Machinists, Railroads, Mills, Contractors, etc.), 105 Fulton
 Morrison, Richard H., 1231 3d av.
 Murray, Robert (Screws, Shovels, Hoes, etc.), 104 Reade
 Neal & Brinker Co. (General, etc.), 18 Warren
 Neal & Scott Co., 51 Warren
 Newhall, Henry B. (Mfrs.' Agent) (Heavy Hardware, Builders' & Contractors' Supplies), 9 Murray
 Oliver Bros. (Syndicate Purchasing Agents) (General & Heavy, Plumbers' Supplies, etc.), 127 Duane
 Patterson Bros., 27 Park Row.
PATTERSON, GOTTFRIED & HUNTER (Ltd.) (Machinists', Railroad, Mill & Contractors' Tools & Supplies), 211 Centre
 Patterson, Haral & Gray (Cutlery, House Furulshing, etc.), 85 Chambers
 Peck & Mack Co. (Importers & Exporters & Mfrs.' Agents) (General), 356 B'way
 Quinn, W. H. & Co. (Commission & Mfrs.' Agents), 103 Chambers
 Shepard, Edw. G. (Mfrs.' Agent) (Builders & General), 107 Chambers
 Sickles & Nutting Co. (Mfrs.' Agents & Jobbers) (General & Heavy), 35 Barclay
 Simmons Hardware Co. (Buying Office for St. Louis, Mo.), 173 Duane
 Smith & Hemenway Co. (Mfrs. & Importers Hdw. Specialties), 108 Duane
 Striffler, Edward C. (Carriage & Wagon-makers' Supplies), 674 9th av
 Surpluss, Duun & Co. (Mfrs.' Agents & Exporters) (Heavy, Tools, Handles & Specialties), 76 Murray
 Tiebout, W. & J. (Mfrs. & Dealers) (Brass & Galvanized, Ship Chandlery), 118 Chambers
 Topping Bros. (Importers, Exporters, Mfrs.' Agents & Commission) (Heavy & Marine), 122 Chambers
 Tower & Lyon Co. (Tools, Vises, Wrenches, Skates, etc.), 95 Chambers
 Underhill, Clinch & Co. (Jobbers) (Builders' Tools, Shovels, Lawn Mowers, etc.), 94 Chambers
 Voigt, Starr & Co. (Cutlery, Plated Ware, Revolvers, Tools, Vises, Clamps, etc.), 84 Chambers
 Vom Cleff & Co. (Importers German Hardware, Cutlery & Tools), 105 Duane
 Warner & Haviland (Mfrs.' Agents) (Tools, Screws, Files, Wagon & Carriage), 49 Warren
 Weiland, Charles (Cutlery, Mechanics' Tools, etc.), 149 Chambers
 White, Van Glahn & Co. (General, Builders, Tools, etc.), 37 Barclay
 Wiebusch & Hilger (Ltd.) (Importers & Mfrs.' Agents, Hardware Specialties, Anvils, Chains, Cutlery, etc.), 106 Lafayette
 Witte, Francis T. Hardware Co. (Importers, Exporters & Mfrs.' Agents) (Hardware, Cutlery, Tools, Refrigerators, etc.), 106 Chambers
 Wood, H. P. & Son (Trunk), 20 Reade
(End of New York City)
 NIAGARA FALLS—Eldersfield-Hartshorn Hardware Co.
 Oliver, F. W. Co. ware Co.
 Watson, Jas. & Son
 OGDENSBURG—Hackett, Patrick Hardware Co. (General & Iron & Steel)
 ONEIDA—Eells & Mott Co. (Carriage Hdw. & Iron & Steel)
 OSWEGO—Oswego Hardware Co. (General, Carriage & Heavy)
 PATCHOGUE—Bailey, E. & Sons
 PENN YAN—Hollowell & Wise
 Peck, Geo. W. & Co
 PLATTSBURGH—Marshall, Wood & Riley Co. (General & Builders)
 Myers, M. P. & Co. (General)
 ROCHESTER—Bennett & Mason Co. (Stoves, Furnaces & Household Specialties)
 Burke, Wm. B. (Heavy)
 Ernst, Louis & Sons (General, Builders, Tools, etc.)
 Mathews & Boucher (General, Tools, Tinners', etc.)
 Roby, Sidney B. Co. (Heavy, Iron & Steel, Coach & Bicycle Supplies)
 Weaver, Palmer & Richmond (General, Shelf, Agr'l Impl'ts, etc.)
 ROME—Wardwell Hdw. Co. (General, Heavy, Carriage)
 SAUGERTIES—Lamb, Daniel & Son
 SCHENECTADY—Witbeck, Clark (General & Heavy)

SYRACUSE—Burhans & Black Co. (General, Heavy, Fishing Tackle, etc.)
 Olancy Hardware Co. (Heavy, Carriage, Blacksmiths' Paints, etc.)
 Drennen Hardware Co.
 Hessler, H. E. Co. (General & Household)
 Syracuse Hardware & Iron Co. (General, Heavy, Household, Paints, etc.)
 TROY—Bonesteel, A. E. & Co. (General)
 Green's, Hannibal Son & Co. (Heavy, etc.) (Importers Norway & Swedish Iron)
 McCormick & Dunn (Heavy, Shelf, Builders', Blacksmiths' & Horseshoers' Supplies)
 Manning, Jno. G. (Saddlery & Supplies)
 Warren, J. M. & Co. (Heavy, Shelf, Tinners', Metals, Cordage, etc.)
 UTICA—Foster, David S. Sons & Co. (General, Heavy & Carriage)
 Parry, Wm. B. & Son (General, Household & Specialties)
 Roberts Hardware Co. (General, Heavy, Tinware, etc.)
 Wright-Dana Hdw. Co. (Gen'l, Heavy, etc.)
 WATERTOWN—Conde, W. W. Hardware Co. (General, Heavy, Carriage)
 WEEDSPORT—Burrett, O. W. & Bro.

NORTH CAROLINA.

ASHEVILLE—Asheville Hardware Co.
 CHARLOTTE—Charlotte Hardware Co. (General & Heavy)
 Southern Hardware Co. (General)
 Weddington Hdw. Co. (General & Heavy)
 ELIZABETH CITY—Jones, D. M. Co. (General & Heavy)
 White, B. F. Hdw. Co. (General, Heavy & Carriage)
 GREENSBORO—Odell Hardware Co. (General, Carriage, etc.)
 HICKORY—Martin, J. A. (General)
 MONROE—Heath Hardware Co. (General, etc.)
 RALEIGH—Briggs, Thos. H. & Sons (General, Heavy, etc.)
 Hart-Ward Hardware Co. (General & Heavy)
 WADESBORO—Blalock Hardware Co. (General)
 WASHINGTON—Fulford, N. S. Hardware Co. (General, Heavy, Carriage, etc.)
 McKeel-Richardson Hardware Co.
 WILMINGTON—Jacobi, N. Hardware Co. (General, Heavy, etc.)
 Murchison, J. W. & Co. (General, Tin, etc.)
 Springer, W. E. & Co. (General, Heavy, Carriage, etc.)
 WINSTON SALEM—Brown, Rogers & Co. (General, Agr'l Impl'ts, etc.)
 Forsyth Hardware Co.
 Norfleet Hardware Co.
 Wall-Huske Co.

NORTH DAKOTA.

FARGO—Hall-Robertson Hardware Co. (General, Cutlery, etc.)

OHIO.

CANTON—Canton Hardware Co. (General, Factory Supplies, Glass, Paints, etc.)
 CHILLICOTHE—Spetnagel Hardware Co. (General & Heavy)
 CINCINNATI—Boebinger Hardware Co. (General, Cutlery, Tools, Patternmakers' Supplies, etc.), 315 E Pearl
 Carpenter, D. L. & Co. (Carriage & Wagon-makers' Hardware & Supplies), 652 Main
 De Vou, V. N. Supply Co. (General, Factory, etc.), 506 Central av
 Kruse Hardware Co. (General, Cutlery, etc.), 25 E Pearl
 Kruse & Bahlmann Hardware Co. (General, Builders', etc.), 410 Pioneer
 Kuhlmann Hardware Co. (General, Builders', Cabinet, Tools, etc.), 1320 Main
 Morris, E. K. & Co. (Heavy), 317 W 2d
 Pickering Hdw. Co. (General), 5th c Main
 Schulte, G. B. & Sons Co. (Wagonmakers' & Blacksmiths' Hardware & Supplies), 716 Main
 CLEVELAND—Bingham, W. Co. (Heavy, Shelf, Cutlery, Firearms, Mfrs'. Mining, Railway Supplies, etc.), 1433 W 9th
 Cray Bros. (Carriage), 1111 W 11th, N.W.
 Giessen, D. E. Co. (Cabinet), 215 Prospect av, S. E.
 Lake Erie Nail & Supply Co., 412 Frankfort av, N. W.
 Lockwood-Taylor Hardware Co. (General, Heavy, Cutlery, Tin Plate, Tools, Saddlery, etc.), 1385 W 9th
 Luetkemeyer, H. W. & Sons (General, Builders', Carriage, Furniture, etc.), 425 Superior av

McIntosh Hardware Corp. (General, Heavy, Tinners', Mfrs'. & Mill Supplies, etc.), 725 Superior av
 Morton-Pettit Co., 3951 St. Clair av
 Worthington, Geo. Co. (Heavy, Metals, Tinners', Carriage & Saddlery, etc.), 814 St. Clair av
 COLUMBUS—Columbus Hardware Co. (General)
 Griswold, Sohl Co. (Carriage & Heavy)
 Mithoff, H. & Co. (Heavy, Tin Plate, Tinners' Stock, Tools, etc.), 284 High
 Smith Bros. Hardware Co. (General, Cutlery, Paints, etc.)
 COSHOCTON—Gray Hardware Co.
 Ricketts, B. W.
 DAYTON—Gebhart, S. T. & G. A. Co. (General, Carriagemakers' & Blacksmiths' Supplies)
 Kramer, Vlot & Co. (General, Shelf & Builders')
 Tischer, G. W. (General, Cutlery, Nails, etc.)
 GALLIPOLIS—Kerr, J. M. & Co.
 Hutchinson, W. H.
 IRONTON—Goldcamp Bros. & Co.
 Hutsinpillar-Sheridan Co. (General)
 LANCASTER—Winter, Frank Hardware Co. (General, Heavy & Carriage)
 MANSFIELD—Bare Bros.-Martin Hardware Co.
 Colwell Hardware Co.
 Wagner Hardware Co. (General & Heavy)
 MARIETTA—Seyley Hardware Co.
 NEWARK—Craue-Bills Hardware Co.
 Jones, Daniel L. & Co.
 Jones, Jno. C.
 PLYMOUTH—Heath Foundry & Mfg. Co.
 PORTSMOUTH—Hibbs Hardware Co. (General)
 SANDUSKY—Donahue Hardware Co.
 SPRINGFIELD—Haucke, Geo. Co.
 Lion Hardware Co.
 Springfield Hardware Co. (General)
 TIFFIN—Creeger, L. D.
 Crobaugh & Dahm Hardware Co. (General & Carriage)
 TOLEDO—Bostwick-Braun Co. (General & Heavy)
 Heavy Hardware Co. (Carriage, etc.)
 Schunk-Marquardt Co. (General & Paints)
 Star Hardware Co. (Builders', Cabinet, Tools, Cutlery, Glass, etc.)
 Stollberg Hardware Co. (General, Tools, Cutlery, Glass, Paints, etc.)
 TROY—Schalble & Smith
 URBANA—Cooper, Otway (General, Saddlery, etc.)
 WARREN—Park Hardware Co.
 Warren Hardware Co.
 WASHINGTON C. H.—Ballard, C. F. (General & Heavy)
 Ford Hardware Co.
 YOUNGSTOWN—Stambaugh, Thompson Co. (General, Heavy, Plumbers', etc.)
 Wilkins-Leonard Hardware Co. (General, Household, Mill Supplies, etc.)
 ZANESVILLE—Clossman Hardware Co.
 Young Hardware Co. (General)

OKLAHOMA.

CHICKASHA—Gilkie-Jarboe Hdw. Co.
 CLINTON—Bonebrake-Lacy Hardware Co.
 EL RENO—Bonebrake Hardware & Implement Co.
 ENID—Gensman Bros.
 GUTHRIE—Hirschi, E. L. (General & Heavy)
 New York Hardware Co.
 KINGFISHER—Hockaday, E. & Co.
 MUSKOGEE—Turner Hardware Co. (General & Heavy)
 OKLAHOMA—Oklahoma City Hardware Co. (General, Heavy, etc.)
 Pettee, W. J. & Co. (General, Agr'l Impl'ts, etc.)
 SHAWNEE—Wade-Branch Hardware Co.

OREGON.

PORTLAND—Dayton Hardware Co. (General, Electrical, Upholsterers', etc.)
 Failing, McCalman Co. (General & Metals)
 Hasetline, J. E. & Co. (Carriage, Heavy, etc.)
 Hexter, May & Co. (General, Tinware, etc.)
 Honeyman Hardware Co. (General, Heavy, etc.)
 Marshall-Wells Hardware Co. (General, Heavy, etc.)
 Robertson Hardware & Steel Co. (Blacksmiths', Wagonmakers', etc.)

PENNSYLVANIA.

ALLENTOWN—Berger, Glose Co.
 Ebbecke Hardware Co.
 Grammes, L. F. & Sons (Cabinet, Desk, Machinery, etc.)
 Hersh, F. Hardware Co. (General, Heavy, Builders', Carriage, etc.)

Schelly, C. Y. & Bro. (General, Builders', etc.)
 Young, M. S. & Co. (General, Builders', Blacksmiths', etc.)
 ALTOONA—Goodfellow's, W. H. Sons (General, Agr'l Impl'ts, etc.)
 Standard Supply & Equipment Co. (Tools, etc.)
 ASHLAND—Buck, P. E. & Sons (General, Heavy, Carriage, etc.)
 BELLEFONTE—Potter-Hoy Hardware Co. (General, Heavy, Carriage, etc.)
 BRADFORD—Emery Hardware Co. (General, Heavy, etc.)
 BUTLER—Campbell, J. G. & W.
 CHICORA—Hays, E. F. & Sons
 Hoch Bros.
 CLARION—Mudge, Jno. A. & Son
 CONNELLSVILLE—Frisbee Hardware Co.
 CORRY—Barlow Hardware Co. (General, Heavy, Blacksmiths', etc.)
 DANVILLE—Weiliver Hardware Co. (General, Heavy, etc.)
 DUPOIS—Hibner-Hoover Hardware Co. (General, Builders', etc.)
 Prothero, Bailey & Goodwin
 EASTON—Miller, T. T. Hardware Co. (General, Heavy, etc.)
 EMLENTON—Mitchell, H. B. & Co.
 ERIE—Erie Hardware Co.
 Mehl & Sapper
 Schnelder Hardware Co.
 GREENVILLE—Packard Hardware Co. (General, Heavy, etc.)
 HANOVER—Shirk, Samuel & Sons (General, Heavy, Carriage, etc.)
 Tanger, J. C. Co.
 HARRISBURG—Gilbert, H. & Son (General & Heavy)
 Strayer, O. F. (General & Heavy)
 HAZLETON—Barber, J. F. & Co. (Tin, Wood, enware, Stoves, etc.)
 Bright, J. C. & Co. (General, etc.)
 HUNTINGDON—Miller, C. H. Hardware Co. (General, Pipe, etc.)
 INDIANA—Stewart, Jas. M. & Co.
 JOHNSTOWN—Swank Hardware Co. (General, Builders', Carriage, etc.)
 KINGSTON—Roat, A. J. (General, Heavy, Carriage, etc.)
 LANCASTER—Reilly Bros. & Ranb (General) Steinhman Hardware Co. (General, Heavy, Carriage, etc.)
 LEBANON—Kranse, Geo. Hardware Co. (General, Heavy, etc.)
 LEHIGHTON—Sendel & Rouse
 LEWISBURG—Driesbach's, C. Sons (General, Saddlery, etc.)
 McKEESPORT—Hartman Hardware Co.
 MAHAFFEY—Wrigley Co. (Inc.)
 MAHANOCY CITY—Helser, H. J. & Co.
 MECHANICSBURG—Hauck Bros.
 MEYERSDALE—Cover, Peter J. & Son
 Shipley Hardware Co.
 MIFFLIN—Guss, E. M., & Sons
 MIFFLINBURG—Suodgrass, S. W. (General, Carriage, etc.)
 MIFFLINTOWN—McIntic, Kirk H.
 MOUNT CARMEL—Beddall & Wardrop
 MOUNT PLEASANT—Stevenson, J. A. & Co.
 NEW CASTLE—Smith-Hutton-Kirk Co.
 PHILADELPHIA—Allen, W. H. & G W. (General, Builders', Cutlery, etc.), 113 Market
 Biddle Hardware Co. (General, Tools, Specialties, etc.) 513 Commerce
 Fernley, T. Jas. (General), 505 Commerce
 Field's, Chas. J. Sons, General, Cutlery, etc.) 633 Market
 Ghriskey's, Chas. M. Sons (General, Mechanics' Tools & Specialties), 508 Commerce
 Hessenbruch, Herman (Importers & Jobbers German Hardware), 8 N 5th
 Matlack, E. C. & Co. (Carriage), 122 N 3d
 Matlack Kern & Co. (General), 203 Market
 Newlin-Knight Hardware Co. (General, Cutlery, Railway Supplies, etc.), 337 Market
 Noll Bros. & Co. (Cabinet), 222 S 2d
 Potry, N. A. (Mfrs' Agent), 422 Commerce
 Rogers & Miller (General), 135 Market
 Seltzer-Klahr Hardware Co. (Cutlery, Guns & Ammunition), 535 Market
 Shannon, J. B. & Sons, 816 Chestnut
 Shannon, J. J. & Co., 1744 Market
 Shleida & Bro. (General, Heavy, etc.), 521 Market
 Supplee Hardware Co. (Shelf, Heavy, Cutlery, Lawn Mowers, etc.), 503 Market
 Vance, Jas. M. & Co. (General, Builders', Cutlery, etc.), 211 Market

ITTSBURG—Blindley Hardware Co. (General, Heavy, Cutlery, Household, Tools, Paints, Glass, etc.), 429 7th av
 Demmier Bros. Co. (Enameled ware, Household, etc.), 1st av & Ross
 Lautner Hardware Co. (General, etc.), North Side
 Lindsay, Jas. C. Hardware Co. (General, Cutlery, Firearms, etc.), 719 Liberty av
 Logau-Gregg Hardware Co. (General, Heavy, Oil & Gas Stoves, etc.), 125 7th
 Steiner & Voegtley
 Wolff-Lane Hardware Co. (General), 105 Wood
 Woodwell, Jos., Co. (General, Builders' & Mill Supplies), 211 Wood
 POTTSTOWN—Fegely, J. & Son (General, Heavy, etc.)
 POTTSVILLE—Bright & Co. (General, Milling, etc.)
 Thompson, L. C. (General, Heavy, Carriage, etc.)
 READING—Bard Hardware Co. (General, Heavy, Carriage, etc.)
 Bright & Co. (General, etc.)
 Hoff Bros. (General, Firearms, etc.)
 Obold, J. H. & Co. (General)
 Stitche Hardware Co. (Ltd.) (General, Heavy, Carriage, etc.)
 SALTSBURG—Moore, J. C. Hardware & Supply Co.
 SCOTTDAL—Loucks Hardware Co.
 SCRANTON—Bittenbender & Co. (Heavy & Carriage)
 Doyle, Jas. B. & Co.
 Foote & Becker (General)
 Gunster Bros.
 Leonard, Thos. F.
 SHAMOKIN—Black Sanner Hardware Co.
 SHARON—Fruit-Ohl Co. (General, Heavy, etc.)
 SOMERSET—Holderbaum, James B. & Son
 Schell, P. A., & Co.
 TAMAKA—Sellman & Co. (General)
 TITUSVILLE—Kernochan & Co.
 United Hardware & Supply Co.
 UNIONTOWN—Huston, Jno. L.
 WARREN—Pickett Hardware Co.
 WILKES-BARRE—Banh, Frank
 Morgan's, C. Sons (General, Tools, etc.)
 Penna Supply Co. (General, Heavy, etc.)
 Phelps-Lewis-Bennett Co. (General, Heavy, White Hardware Co. etc.)
 Wilkes-Barre Hardware Co. (General, Tin, Williamsport—Kilne & Co. ware, etc.)
 Williamsport Hardware & Store Co.
 YORK—Prey & Thomas (General)
 McClellan & Gotwalt Co. (General)
 Small, P. A. & S. (General, Blacksmiths', etc.)

RHODE ISLAND.

PAWTUCKET—Duffy Bros. Hardware Co.
 PROVIDENCE—Barker, Chadsey & Co. (General)
 Belcher & Loomis Hardware Co. (General, Manufacturing Jewelers' & Electrical Supplies, etc.)
 Congdon, Welcome & Sons (General, Builders', Cordage, etc.)
 Union Hardware & Electrical Supply Co. (General, Electrical, Jewelers' Supplies, Paints, etc.)
 WOONSOCKET—Darling, Chas. H.

SOUTH CAROLINA.

ANDERSON—Anderson Hardware Co.
 Sullivan Hardware Co. (General & Heavy)
 CHARLESTON—Franke, C. D., & Co. (Carriage & Wagon)
 Lazarus, M. H. Co.
 Marshall, Westcoat Hardware Co. (General)
 Thompson-Miller Hardware Co. (General)
 CHESTER—De Haven-Dawson Co. (Inc.)
 COLUMBIA—Lorick, L. A. & Bro. (General, Heavy, etc.)
 DARLINGTON—Welling & Bennett
 GREENVILLE—Markley Hardware & Mfg. Co. (General, Carriage, etc.)
 Wilkins, Poe & Co. (General & Heavy)
 Williams, Jas. T.
 SPARTANBURG—Ezell, S. B.
 Montgomery & Crawford (General)

SOUTH DAKOTA.

ABERDEEN—Jackson Hardware Co. (General & Heavy)
 RAPID CITY—Sweeney Hardware Co. (General)

TENNESSEE.

BRISTOL—Mitchell-Powers Hardware Co. (General & Heavy)
 Virginia-Tennessee Hardware Co. (General & Heavy)

CHATTANOOGA—Fritts, Tom Hardware Co. (General, Plumbers', etc.)
 Green, W. T. (General, Cutlery, etc.)
 Magill Hardware Co. (General & Heavy)
 Vance, John C. (General)
 Woodworth, F. H. & Co. (General)
 CLARKSVILLE—Elder-Conroy Hardware Co.
 CLINTON—Clinton Hardware Co.
 JACKSON—Anderson, G. C., & Co. (General)
 McGee-Ross Hardware Co.
 JOHNSON CITY—Summers-Parrott Hardware Co. (General)
 KNOXVILLE—Luttrell, S. B. & Co. (General, Heavy, etc.)
 McClung, C. M. & Co. (General, Heavy, McClung, Buffat & Buckwell Tools, etc.)
 Woodruff Hardware Co. (Heavy, Shelf, etc.)
 MEMPHIS—Barnes & Miller Hardware Co. (General)
 Benedict, Warren & Davidson Co. (General, Tinware, etc.)
 Cralg, R. G. & Co. (General)
 Harris Iron & Supply Co. (Carriage, etc.)
 Livermore Foundry & Machine Co. (Heavy)
 Orgill Bros. & Co. (General, Agr'l Impl'ts, etc.)
 Stewart Bros. Hardware Co. etc.)
 MORRISTOWN—Baylor, C. E. & Co. (General Grant-Hasson Hardware Co. & Heavy)
 NASHVILLE—Buford Bros. (Heavy, Carriage, Craig & Shoffner Hardware Co. etc.)
 Fall, J. H. & Co. (General, Heavy, Builders', etc.)
 Gray & Dudley Hardware Co. (General, Heavy, etc.)
 Hitchcock, L. H. & Son (General, Agr'l Impl'ts, etc.)
 Keith, Simmons & Co. (General, Heavy, etc.)
 Lipscomb, H. G. & Co. (Shelf, Wagon, Builders', etc.)

TEXAS.

ABILENE—Hughes, Edw. S. & Co. (General & Heavy)
 AMARILLO—Morrow-Thomas Hardware Co. (General)
 AUSTIN—Richardson, W. H. & Co.
 Tibps, Walter A. (General, Heavy, Carriage, Saddlery, etc.)
 Webb, Taylor & Perry (General, Carriage, etc.)
 BEAUMONT—Wilson, E. L. Hardware Co. (General, Heavy, etc.)
 BROWNWOOD—Jackson-Hughes Co. (General, Saddlery, etc.)
 Weakley-Clingman Hardware Co. (General)
 DALLAS—Huey & Philip Hardware Co. (General, Tinners', etc.)
 Moroney Hardware Co. (General)
 Thornhill, H. W. Co. (General)
 DENISON—Hall-Leeper Hardware Co.
 EL PASO—Krakauer, Zork & Moya (General, Firearms, etc.)
 FORT WORTH—Fort Worth Heavy Hardware Co.
 Henry, Wm. & Co. (General & Heavy)
 Nash Hardware Co. (General, Heavy, etc.)
 GAINESVILLE—Stevens-Kennerly & Spragins Co.
 GALVESTON—Blum Hardware Co. (General)
 Brown, J. S. Hardware Co. (General, Saddlery, etc.)
 HALLETTSVILLE—Hallettsville Hdw. Co. (General)
 HENDERSON—Barnett-Lacy Hardware Co.
 HOUSTON—Adou-Blaine Hardware Co.
 Bering-Cortes Hardware Co. (General)
 Bering, C. L. & Theo., Jr.
 Heltman, F. W. Co. (Heavy)
 Meyer, Jos. F. Co. (Heavy & Carriage)
 JEFFERSON—Meyer, Eugene
 Torrains Mfg. Co.
 LAREDO—Deutz Bros. (General & Heavy)
 PARIS—Rettes, H. S. Hardware Co. (General)
 ROCKDALE—Heune & Meyer Co.
 SAN ANTONIO—Basse, Wm. Hardware Co. (Carriage, Wagon & Heavy)
 Heusinger Hardware Co. (Heavy, Builders', Cabinet, Tools, etc.)
 San Antonio Hardware Co.
 Schultz Stove & Hardware Co.
 Tips Hardware Co. (General)
 SHERMAN—Roberts, Sanford & Taylor Co. (General)
 WALSH Hardware Co.
 TEXARKANA—(See Arkansas)
 TYLER—Adams, Jno. R. Hardware Co. (General, Heavy, etc.)
 WACO—McLendon Hardware Co. (General, Heavy, etc.)
 Padgett, Tom Co. (Saddlery, etc.)
 Straus, Ed. (General, Cutlery, etc.)
 WEATHERFORD—Beil, R. E. Hardware Co. (General)
 Lowe Carter Hardware Co. (General, etc.)

UTAH.

OGDEN—Lowe, Geo. A. Co. (Heavy)
SALT LAKE CITY—Salt Lake Hardware Co.
(General, Heavy, etc.)
Strevell-Patterson Hardware Co. (General,
Heavy, etc.)
Zion's Co-operative Mercantile Institution
(General, Heavy, etc.)

VERMONT.

BURLINGTON—Hager Bros.
Manson Hardware Co.
Strong Hardware Co. (Heavy, Builders',
Carriage, etc.)
MONTPELIER—Barrows & Peck
Peck Bros.
NEWPORT—Root, Hy. S. & Son
True & Blanchard Co.
RUTLAND—Landon, W. C. & Co.

VIRGINIA.

ALEXANDRIA—Carlin-Hulfish Co.
BRISTOL—(See Tennessee)
CHARLOTTESVILLE—Charlottesville Hard-
ware Co. (General, Cutlery, Heavy, etc.)
CLIFTON FORGE—Smith, W. K. Hardware
Co. (General, Builders', Tools, etc.)
DANVILLE—Hodnett, Vass, Watson Co.
Piedmont Hardware Co. (General, etc.)
HAMPTON—Booker, H. R. & Co.
HARRISONBURG—Burke, John P.
Wilton-Nicholas Hardware Co.
LYNCHBURG—Ainslie & Martin Co. (General)
Bailey, Spencer Hardware Co. (Heavy,
Shelf, Firearms, etc.)
Barker-Jennings Hardware Co. (Heavy, Shelf,
Firearms, etc.)
Gannaway, Jno. E. & Co. (General)
Perrow-Evans Hardware Co. (General)
MANCHESTER—Vaden, Bernard P.
NORFOLK—Clark, Frank T. Co. (General)
De Haven-Dawson Co. (Inc.)
Howard, Paul R. Hardware Co. (General,
Tin, Cordage, etc.)
Watters & Martin (General, Heavy, etc.)
White Hardware Co. (General)
Womble's, J. G. Sons (General)
NORFOLK—Norton Hardware Co. (General)
PETERSBURG—Leonard, Chas., Hardware
Co. (General)
Stockdell-Myers Hardware Co. (Heavy)
Stratton & Bragg Co. (General)
PORTSMOUTH—Neville & Grubb (General,
Salomon, Moses Heavy, Ship Chandlery)
RICHMOND—Baldwin & Brown
Clarke, A. B. & Son Hardware Co. (General,
Heavy, Carriage, etc.)
Donnan, W. S. Hardware Co. (Heavy)
McGraw, James (General, Machinists' Sup-
plies)
Richmond Hardware Co. (General, Tinware,
etc.)
Virginia-Carolina Hardware Co. (General,
Tinware, etc.)
Watkins-Cottrell Hardware Co. (General,
Heavy, Saddlery, etc.)
ROANOKE—Nelson Hardware Co. (General,
Miners' Supplies, etc.)
Roanoke Hardware Co. (General, etc.)
SOUTH BOSTON—Penick, R. A. & Son (Gen-
eral)
STAUNTON—Bowman, C. P. & Bro. (General,
Saddlery, etc.)
Worthington Hardware Co. (General, Heavy,
Carriage, Saddlery, etc.)
SUFFOLK—Folk, E. L., Co.
Nordlee & Bro.
TAZEWELL—Greever, J. A.
Peery & St. Clair

WASHINGTON.

BELLINGHAM—Morse Hardware Co. (General)
Northwest Hardware Co. (General & Heavy)
EVERETT—Agnew Hardware Co.
SEATTLE—Gray Bros. (Carriage, Wagon, etc.)
Hicks, S. B. & Sons Co. (Heavy, etc.)
Pacific Hardware & S. Co. (Branch San
Francisco)
Schwabacher Hardware Co. (Heavy, Shelf,
Ship Chandlery, etc.)
Seattle Hardware Co. (Heavy, Shelf, Tools,
etc.)
Western Hardware & Metal Co.
Wilton Hardware Co. (General, Cutlery,
Tools, etc.)
SPOKANE—Holley-Mason Hardware Co. (Shelf,
Heavy, Plumbers', etc.)
Jensen-King-Bryd Co. (General)
Spokane Hardware Co. (General)

LACOMA—Horst Bros.
Hunt & Mottet Co. (General & Heavy)
Washington Hardware Co.
WALLA WALLA—Drumheller Co.

WEST VIRGINIA.

BLUEFIELD—Bluefield Hardware Co. (General,
Tinware, etc.)
CHARLESTON—Burlew, N. S. (General)
Charleston Hardware Co. (General)
Goshorn Hardware Co. (General)
Loewenstein & Sons (General)
CLARKSBURG—Williams & Davidson Co.
(General, Heavy, Carriage)
FAIRMONT—Amos, Geo. E. & Co.
Jacob-Hutchinson Hardware Co. (General,
Hinton-Hinton Hardware Co.
HUNTINGTON—Emmons, Hawkins Hardware
Co. (General, Natural Gas Fixtures, etc.)
Foster-Mead Hardware Co. (General, etc.)
Huntington Hardware Co.
KEYSER—Sleyer Hardware Co. (General)
PARKERSBURG—Chancellor Hardware Co.
Neal, R. L. & Co. (General)
Niswander, G. W. & Co.
Smith, W. M. Hardware Co. (General)
RAVENSWOOD—McIntosh, John A. & Son
(General & Heavy)
Moore, C. P. (General)
SUTTON—Lee, W. H.
WHEELING—Greer & Laing (General & Heavy)
Hiener Hardware Co.
Miller & Stein (Heavy, Carriage, etc.)
Ott-Helskell Hardware Co. (General, Cut-
lery, etc.)
Snyder's, Jacob Sons (Carriage, Wagon,
Blacksmith's, etc.)

WISCONSIN.

APPLETON—Galpin's, Alfred Sons
Tesch, Wm.
ASHLAND—Garnick, Emil & Sons
BURLINGTON—Wagner, C. B., Hardware Co.
EAU CLAIRE—Brooks, S. C. (Est. of)
Foss-Armstrong Hardware Co. (General,
Heavy, Tools, Builders', etc.)
FOND DU LAC—Hughes, Jno.
Wegner, J. F. & Co.
GREEN BAY—Findeisen Bros.
Gottfredson Bros. Co.
Kinball, Chas. P., Jr.
Morley-Murphy Hardware Co. (General, Cut-
lery, etc.)
HUDSON—Foss-Armstrong Hardware Co. (Gen-
eral)
JANESVILLE—Bicknell Mfg. & Supply Co.
KENOSHA—Dewey, C. A.
LA CROSSE—Kroner, Fred, Hardware Co.
(General, Wagon, Tools, etc.)
Tausche, Vincent Hardware Co. (General,
Blacksmiths', etc.)
MADISON—Kroncke, A. G., Hardware Co.
Sumner & Morris
MANITOWOC—Teitgen, Emil
Worcl, Zeman & Stangel Co. (General,
Heavy, Carriage, etc.)
MARSHFIELD—Kilner, Lang & Scharmann Co.
MILWAUKEE—Frankfurth, Wm. Hardware Co.
(General, Heavy, Cutlery, Firearms, etc.)
Gross, Philip Hardware Co., 126 Grand av
Hilgendorf, Kollege & Co., 303 3d
Paulus, Peter, Hardware Co.
Pritzlaff, John Hardware Co. (General,
Heavy, Tin Plate, Cutlery, etc.), 41 W
Water
Suedtjohn & Seefeld (Heavy, Carriage, etc.)
NEENAH—Kreger, Wm. & Co., 45 2d
OSHKOSH—Leach, Frank Hardware Co.
RACINE—Hoernel Hardware Co.
Murphy, James
SHEBOYGAN—Geele, Frank Hardware Co.
SUPERIOR—Superior Hardware Co.
WATERTOWN—Kusel, D. & F. Co.
WAUSAU—Bauman Hardware Co.
Montgomery Hardware Co.

WYOMING.

CHEYENNE—Arp & Hammond Hardware Co.
Roedel, Frank A.
EVANSTON—Beeman & Cashin Mercantile Co.
LANDER—Rheln, W. H. & Co.
LARAMIE—Holliday, W. H. Co.
SHERIDAN—Diefenderfer & Dinwiddle

Hardwood Floors

(See Floors, Hardwood; also Floors, Parquet)

Hardwoods (Decorative)

Publishers Paper Co., 1 Madison av, New
York

Harness (Coal Mine, Etc.)

Beagle Hame Works, Freeland, Pa.
Kugler, Clarence B., Jr., & Co., Land Title
Bldg., Phila., Pa.
Olewine, Wm. & Son, Hazleton, Pa.
Pittsburg Harness Supply Co., Pittsburg, Pa.
Stratton, J. P. & Son, Sullivan, Ind.
Strecker Bros. Co., Marietta, O.

Harness (Contractors')

Columbus Carriage & Harness Co., Columbus, O.
Hayden, P. Saddlery Hardware Co. (Scraper
& Railroad Harness & Supplies), Colum-
bus, O.
Meyer, Bannerman & Co. (Harness & Sup-
plies), 618 N 6th, St. Louis, Mo.
Sickles, J. B. Saddlery Co. (Harness & Sup-
plies), 21st & Washington av, St. Louis,
Mo.

Harness Menders

Buffalo Specialty Co. ("Rapid"), 375 Ellicott,
Buffalo, N. Y.

Harpoons

Falls Mfg. Co. (Improved "C. V."), San Fran-
cisco, Cal.
Wilcox, Crittenden & Co., Middletown, Conn.

Harps (Trolley)

(See Trolley Line Materials)

Harrow Teeth Mfrs.

Babcock Mfg. Co., Leonardsville, N. Y.
Cambria Steel Co. (Spring Teeth), Arcade
bldg., Phila., Pa.
Fuller & Johnson Mfg. Co., Madison, Wis.
Harrow Spring Co. (Spring), Kalamazoo, Mich.
Hench & Dromgold Co., Inc., York, Pa.
Herschel, R. Mfg. Co., Peoria, Ill.
Inland Steel Co. (Bessemer Steel), First Nat'l
Bank bldg, Chicago, Ill.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Mason, F. C. & Co. (Spring, Spike), St.
Joins, Mich.
Munnsville Plow Co., Munnsville, N. Y.
Old Dominion Iron & Nail Works Co., Rich-
mond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Carlin & Orendorf Co., Canton, Ill.
PITTSBURGH RIVET CO. (Round &
Square Steel), 38th st & Junction R. R.,
Pittsburgh, Pa. (See adv. index, end of
book)
Sweet's Steel Co. (Solid Steel), Williamsport,
White, S. R. & Bro., Norfolk, Va., Pa.

Harrows (Boss)

Anderson Co., St. Paul, Minn.
Emerson Mfg. Co., Rockford, Ill.
Fuller & Johnson Mfg. Co., Madison, Wis.
Hartford Plow Co., Hartford, Wis.
Hayes Pump & Planter Co., Galva, Ill.
Keller Mfg. Co., Sauk Center, Minn.
La Crosse Plow Co., La Crosse, Wis.
Minneapolis Plow Works, Minneapolis, Minn.
Rock Island Plow Co., Rock Island, Ill.
Rowell, I. B. Co., Menomonee Falls, Wis.

Harrows (Disc)

Adrance, Platt & Co. ("New York"), Pough-
keepsie, N. Y.
American Harrow Co., Detroit, Mich.
American Plow Co. ("American"), Madison,
Wis.
American Seedling Machine Co. (Gang & on
Wheels, also Truck), Main Office, Springfield,
Anes Plow Co., Quincy Hall, Boston, Ohio.
Avery, B. F. & Sons, Louisville, Ky.
Bement's, E. Sons, Lansing, Mich.
Benica Agricultural Works, Benica, Cal.
Bradley, David Mfg. Co., Bradley, Ill.
Bristol & Gale Co., Chicago, Ill.
Brown, Geo. W. & Co., Galesburg, Ill.
Bucher & Gibbs Plow Co. (Also Cut Out Disc
& Double Disc), Canton, O.
Case, J. L. Plow Works (Racine), Racine, Wis.
Cutaway Harrow Co. ("Clark's Cutaway"), Hig-
ganum, Conn.
Daley, M. H., Charles City, Ia.
Decre & Mansur Co., Moline, Ill.
Henschler, H. P. Co., Hamilton, O.
Emerson Mfg. Co. (Emerson, Sandow), Rock-
ford, Ill.
Fetzer & Co., Springfield, Ill.
Fort Madison Plow Co., Fort Madison, Ia.
Graham City Drill Co., La Crosse, Wis.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. (One or Two Lever also Cut-
away), Albion, Mich.

Galesburg Coulter-Disc Co. ("Brown"), Galesburg, Ill.
 Graud Detour Plow Co., Dixon, Ill.
 Haish, Jacob Co., De Kalb, Ill.
 International Harvester Co. of America (Cutaway, Reversible, Vineyard), Chicago, Ill.
 Osborne Plant, Auburn, N. Y.

Janesville Mach. Co. (Budlong), Janesville, Wis.
 Johnstou Harvester Co., Batavia, N. Y.
 Kingman & Co., Peoria, Ill.
 La Crosse Plow Co. ("La Crosse"), La Crosse, Wis.
 Leau, Roderick Mfg. Co., Mansfield, O.
 Lehr Agricultural Co., Fremont, O.
 Long & Allstater Co. ("Hamilton"), Hamilton, Ohio
 Luthy & Co., Peoria, Ill.
 McSherry Mfg. Co., Middletown, O.
 Moline Plow Co. (Cutaway & Reversible), Moline, Ill.

Monmouth Plow Co., Monmouth, Ill.
 Northwestern Steel & Iron Works, Eau Claire, Wis.
 Ohio Cultivator Co., Bellevue, O.
 Ohio Rake Co., Dayton, O.
 Parlin & Orendorff Co. (Canton), Canton, Ill.
 Patten & Stafford Co. ("New York Champion"), Canastota, N. Y.

Pekin Plow Co., Pekin, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rock Island Plow Co. (with Drilling Seeder Attachment), Rock Island, Ill.
 Rockford Mfg. Co. ("Rockford"), Rockford, Ill.
 St. Joseph Plow Co., St. Joseph, Mo.
 Shaw, H. C. Co. ("Stockton," Reversible), Stockton, Cal.

Sears, Albert H. & Co., Plan, Ill.
 Standard Harrow Co. (Model), Utica, N. Y.
 Sterling Mfg. Co., Sterling, Ill.
 Sucker State Drill Co., Belleville, Ill.
 Syracuse Chilled Plow Co. (Steel Frame), Syracuse, N. Y.

Thomas Mfg. Co., Springfield, O.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Wiard Plow Co., Batavia, N. Y.

Harrows (Spading)

Bement's, E. Sons (Morgan), Lansing, Mich.
 Chapinville Wheel Co. (New Yorker), Poughkeepsie, N. Y.

Deere & Mansur Co., Moline, Ill.
 Janesville Mach. Co. (Budlong), Janesville, Wis.
 Parlin & Orendorff Co. (Canton), Canton, Ill.
 Wiard Plow Co. (Morgan), Batavia, N. Y.

Harrows (Spring Tooth)

Adriance, Platt & Co. (Wheel & Wheel Riding), Poughkeepsie, N. Y.
 Albright, James H. & Sons, Mifflingburg, Pa.
 Allen, S. L. & Co., Phila., Pa.
 American Harrow Co., Detroit, Mich.
 American Seeding Machine Co., Main office, Springfield, O. Works: Louisville, Ky.
 American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.

Babcock Mfg. Co., Leonardville, N. Y.
 Belcher & Taylor Agricultural Tool Co., Chicopee, Falls, Mass.

Bement's, E. Sons, Lansing, Mich.
 Bucher & Gibbs Plow Co., Canton, O.
 Davison Harrow Co., Utica, N. Y.
 Donaldson Bros., Mount Clemens, Mich.
 Empire Plow Co., Cleveland, O.
 Farquhar, A. B. Co., York, Pa.
 Gale Mfg. Co. (Steel or Wood Frame), Albion, Mich.

Greenville Implement Co., Greenville, Mich.
 Hartford Plow Works, Hartford, Wis.
 Heehner & Sons, Lansdale, Pa.
 Hensch & Dromgold Co., York, Pa.
 Hoke Mfg. Co., South Bend, Ind.
 Howland Mfg. Co., Pontiac, Mich.

International Harvester Co. of America (Steel Frame, Steel, Steel Frame Lever, Wheel Riding, One Horse Garden, Vineyard Peg Tooth, etc.), Chicago, Ill. Osborne Plant, Auburn, N. Y.

Johnson Harvester Co. (Perry), Batavia, N. Y.
 Keystone Farm Machine Co., York, Pa.
 Kingman & Co., Peoria, Ill.

Lean, Roderick Mfg. Co. (Also Spike Tooth), Mansfield, O.
 Lovejoy Co., Cambridge, N. Y.
 Merrill, Freeman C., South Paris, Me.
 Molitor, North & Moyers, Lansing, Mich.
 Munnsville Plow Co., Munnsville, N. Y.

Northwestern Steel & Iron Wks., Eau Claire, Wis.
 Ohio Rake Co. (Quall Steel & Advance Wood), Dayton, O.

Patten & Stafford Co. ("New York Champion"), Canastota, N. Y.

Spangler Mfg. Co., York, Pa.
 Standard Harrow Co., Utica, N. Y.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thomas Mfg. Co., Springfield, O.
 Williams Mfg. Co., Kalamazoo, Mich.
 Wood, W. A., Mowing & Reaping Mach. Co., Hoosick Falls, N. Y.

Harrows & Pulverizers

Adriance, Platt & Co. (Peg & Spring Tooth with or without Seat), Poughkeepsie, N. Y.
 Allen, S. L. & Co., 1017 Market, Phila., Pa.
 American Harrow Co., Detroit, Mich.
 American Seeding Machine Co. (Spike & Spring Tooth Lever, etc.), Main office, Springfield, Ohio

Ames Plow Co., Quincy Hall, Boston, Mass.
 Auderson Co., Little Falls, Minn.
 Auderson Company (Boss Harrows), St. Paul, Minn.

Atlanta Agricultural Works ("Little Joe," "Arkansas Traveler," "Atlanta"), Atlanta, Ga.
 Austin-Bryan Mfg. Co., Birmingham, Ala.
 Avery, B. F. & Sons (Lever, Spike Tooth), Louisville, Ky.

Bailey, Nichols & Co. (Nichols Roller Harrow), Delevan, Ill.
 Barley, Thos. K., Sedalia, Mo.
 Bateman Mfg. Co. (Iron Age), Grenloch, N. J.
 Bechtolt, Geo. E., Urbana, O.

Belcher & Taylor Agl. Tool Co. (Eclipse Weed Harrow, Yankee Pulverizer, Share's Coulter Harrow, etc.), Chicopee Falls, Mass.
 Benicia Agricultural Works (Benicia, Peerless & Eureka), Benicia, Cal.

Billups, C. Son & Co., Norfolk, Va.
 Bradley, David Mfg. Co. (U Bar Lever, Gas Pipe Frame), Bradley, Ill.

Brown, Geo. W. & Co. (Lever Pipe, U Bar & Wood), Galesburg, Ill.

Brown Mfg. Co., Zanesville, O.
 Bucher & Gibbs Plow Co. (Spike Tooth), Canton, O.

Case, J. I. Plow Works (Critic & Case, Lever, Scotch), Racine, Wis.

Castille Chilled Plow Co., Castille, N. Y.
 Champion Thresher Co., Orrville, O.

Clayton, John Plow Works Co. (Steel Lever, Wood, etc.), Minneapolis, Minn.
 Clipper Chilled Plow Co., Elmira, N. Y.

Collins Plow Co. (Quincy Lever, Steel U Bar), Quincy, Ill.

Crisler Harrow Co., Wichita, Kan.
 Cutaway Harrow Co. ("Clark"), Higganum, Daley, M. H., Charles City, Ia. Coun.

Deere & Co., Moline, Ill.
 Deere & Mansur Co. (Zig-Zag, Deer Lever, Ajax, Scotch), Moline, Ill.

Deuscher, H. P. Co. (McColm Pulverizer), Hamilton, O.

Donaldson Bros. (Spike Tooth), Mt. Clemens, Mich.

Dowden Mfg. Co. (Weed Harrow), Prairie City, Ia.
 Dunham, J. W. & Son, Berea, O.

Eagle Mfg. Co., Kansas City, Mo.
 Eaton Plow Works (V. A. Stookey & Son, Props.), Pinckneyville, Ill.

Emerson Mfg. Co., Rockford, Ill.
 Empire Plow Co. ("Empire"), Cleveland, O.

Evans, A. C. Mfg. Co. (U Bar), Springfield, O.
 Farquhar, A. B. Co., Ltd. (Spring Tooth, etc.), York, Pa.

Fond du Lac Implement Co., Fond du Lac, Wis.
 Fort Madison Plow Co., Fort Madison, Ia.

Fountain City Drill Co. (Steel Lever), La Crosse, Wis.
 Fuller & Johnson Mfg. Co. (Boss, Bonanza Lever, U & Pipe Bar), Madison, Wis.

Fulton Machine Co. (Cyclone Soil Pulverizer), Canal Fulton, O.

Gale Mfg. Co. (Spring Tooth Steel & Lever Harrows, Spike Tooth, Steel U Bar), Albion, Mich.

Galesburg Coulter-Disc Co., Galesburg, Ill.
 Genesee Valley Mfg. Co. (Fargo V Tooth), Mt Morris, N. Y.

Grand Detour Plow Co. (Pine, Beam, U Bar, Angle Bar, Wood & Steel), Dixon, Ill.

Greencastle Mfg. Co. (Perry Pattern), Greencastle, Pa.
 Haish, Jacob Co., De Kalb, Ill.

Hartford Plow Works (Boss Lever, Angle Bar, Scotch), Hartford, Wis.

Hayes Pump & Planter Co. (Steel U Bar, Angle Bar or Pipe with Spike Tooth), Galva, Ill.

Hazen, W. S. & Marshall (Hazen, Scotch), Ripon, Wis.

Hench & Dromgold Co. (Spike Tooth, Steel & Wood Frame, Pulverizers, etc.), York, Pa.

Hickox, Mull & Hill Co. (Champion Pulverizer), Toledo, O.

Hoke Mfg. Co. (Lever Spike Tooth), South Bend, Ind.

Houser & Haines Mfg. Co. (Spike Tooth), Stockton, Cal.

Howell, R. R. & Co., Minneapolis, Minn.
 Howland Mfg. Co., Pontiac, Mich.

Hudson, S. T. (Hudson, Four-in-One), Riverhead, N. Y.
 Hunt, Helm, Ferris & Co., Harvard, Ill.

International Harvester Co. of America, Chicago, Ill. Osborne Plant, Auburn, N. Y.

Janesville Machine Co. (Tubular Lever), Janesville, Wis.

Jeliff C. O. Mfg. Corporation (Meeker's Smoothing), Southport, Conn.

Johnson & Smith Co. (Steel), Austin, Minn.
 Johnson Harvester Co. (Steel), Batavia, N. Y.

Keller Mfg. Co., Sauk Center, Minn.
 Keystone Farm Machine Co. (Spring & Spike Tooth), York, Pa.

King & Hamilton Co. (Pulverizers), Ottawa, Ill.
 Kingman & Co., Peoria, Ill.

Kingman Plow Co. (U Bar), Peoria, Ill.
 La Crosse Plow Co. (Tubular, Zig-Zag, Steel & Wood Flexible & Wood Lever), La Crosse, Wis.

Lean, Roderick Mfg. Co. (All Steel Lever, Zig-Zag, Spike Tooth), Mansfield, O.

Lee Bros., Watertown, S. D.
 Lehr Agricultural Co. (Peg Tooth, etc.), Fremont, O.

Lovejoy Co. (Spike Tooth), Cambridge, N. Y.
 McSherry Mfg. Co., Middletown, O.

MacGowan & Finigan Fdy. & Machine Co. ("M. & F." U. Bar Steel), Gay hldg, St. Louis, Mo.

Marseilles Harrow Mfg. Co. (Triangular-Steel Frame), Marseilles, Ill.

Mead Hay Press Co., Pueblo, Col.
 Merrill, Freeman C., South Paris, Me.

Minneapolis Plow Works (Boss, Monitor, Scotch Steel Frame Lever), Minneapolis, Minn.

Moline Plow Co. (Steel Pipe Lever, U Bar Pulverizer), Moline, Ill.

Molitor, North & Moyers, Lansing, Mich.
 Monmouth Plow Co. (Lever), Monmouth, Ill.

Nash, Duane, H. (Acme Pulverizer Harrow, Clod Crusher & Leveler), Millington, N. J.

Northwestern Steel & Iron Works (Disc, Spike Tooth & Spring Tooth), Eau Claire, Wis.

Ohio Cultivator Co. (Steel Lever, Cyclone Pulverizer), Bellevue, O.

Ohio Rake Co. (U Bar, Quall L Bar, Spike Tooth), Dayton, O.

Parlin & Orendorff Co. (Canton Pipe Frame Lever & U Bar Lever Scotch & Smoothing, Rough Rider, Clod Crusher), Canton, Ill.

Patten & Stafford Co., Canastota, N. Y.
 Pekin Plow Co. (Lever & Disc), Pekin, Ill.

Peoria Implement Mfg. Co. (Rex Harrow & Pulverizer), Peoria, Ill.

Peru Plow & Wheel Co., Peru, Ill.
 Peterson Mfg. Co. (Imperial Pulverizer, Kent, Ohio)

Phoenix Foundry & Mfg. Co. (Parker's Pulverizers), Ripley, O.

Plattner Implement Co. (Spike Tooth, Steel Frame), Denver, Col.

Pounder, G. H. (Pounder Flexible, Ft. Atkinson, Wis.)
 Racine-Sattley Co. (Spike Tooth, Steel Frame), Springfield, Ill.

Reed & Rogers (Scotch), Vernon, Ind.
 Richmond Plow Co., Richmond, Ind.

Ripson, Wm. & Son, Youngstown, N. Y.
 Rock Island Plow Co. (Steel & Wood Lever, Flexible, Boss), Rock Island, Ill.

Rockford Implement Co. ("Skandia"), Spike Tooth, Wood Frame), Rockford, Ill.

Rockford Mfg. Co. ("Rockford", Steel & Wood Lever), Rockford, Ill.

Rowell, I. B. & Co., Menomonee Falls, Wis.

St. Joseph Plow Co. (Scotch, Channeled & Pipe or Tap Bar Steel Spike Tooth), St. Joseph, Mo.

Sargent, S. R. & Co. (New England Smoothing), Castleton, Vt.

Sears, Albert H. Co., Plano, Ill.

Sechler, D. M. Carriage Co. (Black Hawke Pulverizer), Moline, Ill.

Selby, Starr & Co., Peoria, Ill.

South Bend Chilled Plow Co. (Smoothing, New Market 14 Teeth), South Bend, Ind.

Southern Plow Co., Columbus, Ga.

Sparta Plow Works (Imperial U Bar), Sparta, Ill.

Standard Harrow Co. ("Crescent" & "Superior" Spike Tooth Lever), Utica, N. Y.

Star Mfg. Co. (Spike Tooth, U Bar), Carpentersville, Ill.

Sterling Mfg. Co. (Lever), Sterling, Ill.

Ware, J. L. (Boss Steel Lever), Minneapolis, Minn.
Whitman Agricultural Co., St. Louis, Mo.
Wiard Plow Co. (Cotton & Corn), Batavia, N. Y.
Wildier-Strong Implement Co., Monroe, Mich.
Zelisch, A. Theo. (Smoothing), Mayville, Wis.

Harvesters (Bean & Pea)

Acme Harvester Co., Peoria, Ill.
Akron Cultivator Co., Akron, O.
Allen, S. L. & Co., 1017 Market, Phila., Pa.
American Harrow Co., Detroit, Mich.
Arnold's, G. W. Son, Ionia, Mich.
Beach Mfg. Co., Lyons, Mich.
Bidwell, C. H. Thresher Co. (Inc.), Batavia, N. Y.
Caledonia Bean Harvester Works, Caledonia, N. Y.
Cardwell Machine Co., Richmond, Va.
Clare's, Wm. Sons (Pea), Rising Sun, Ind.
Farmers' Handy Wagon Co., Saginaw, Mich.
Gale Mfg. Co., Albion, Mich.
Howland Mfg. Co., Pontiac, Mich.
Lehr Agricultural Co., Tremont, O.
Le Roy Plow Co., Le Roy, N. Y.
Munnsville Plow Co., Munnsville, N. Y.
Ohio Cultivator Co., Bellevue, O.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
Wettlaufer, Ratz Mfg. Co., Cass City, Wis.
Wiard Plow Co. (The Universal), Batavia, N. Y.

Harvesters (Beet)

American Beet Harvester Co., Saginaw, Mich.

Harvesters (Combined)

Best Mfg. Co., San Leandro, Cal.
Holt Mfg. Co., Stockton, Cal.
Houser & Haines Mfg. Co., Stockton, Cal.

Harvesters (Corn)

Adriance, Platt & Co. (Also Rear Discharge & Elevator Binders), Poughkeepsie, N. Y.
Bennett, H. L. & Co., Westerville, O.
Blue Valley Mfg. Co., Manhattan, Kan.
Deering Harvester Co., Chicago, Ill.
Empire Foundry & Harvester Works, Marysville, Cal.
Fleming & Sons Mfg. Co., Huntsville, Mo.
Foos Mfg. Co., Springfield, O.
Hickox, Mull & Hill Co., Toledo, O.
Independent Harvester Co., Plano, Ill.
International Harvester Co. of America, Chicago, Ill.
Osborne Plant, Auburn, N. Y.
Johnston Harvester Co., Batavia, N. Y.
Kansas City Hay Press Co., Kansas City, Mo.
Lehr Agricultural Co., Fremont, O.
Standard Harrow Co., Utica, N. Y.
Stevens Mfg. Co., Joliet, Ill.
Wood, Walter A., Mowing & Reaping Machine Co., Hcosick Falls, N. Y.

Harvesters (Rice)

International Harvester Co. of America, Chicago, Ill.
Osborne Plant, Auburn, N. Y.
Johnston Harvester Co., Batavia, N. Y.

Harvesters & Binders (Grain)

Acme Harvesting Machine Co., Peoria, Ill.
Adriance Platt & Co., Poughkeepsie, N. Y.
Aultman & Taylor Machinery Co., Mansfield, Ohio.
Independent Harvester Co., Plano, Ill.
International Harvester Co. of America, Chicago, Ill.
Osborne Plant, Auburn, N. Y.
Johnston Harvester Co., Batavia, N. Y.
Selberling & Miller Co., Doylestown, O.
Wood, Walter A., Mowing & Reaping Machine Co., Hcosick Falls, N. Y.

Hasps & Staples

(See also Staples)

ACME STEEL GOODS CO. ("Acme" Wrought Steel), 2834 Archer av., Chicago, Ill.; 147 Lafayette, New York, & Empire bldg., Atlanta, Ga. (See adv. index, end of book)
Brewer Bros., 614 Filbert, Phila., Pa. (book)
Corbin Cabinet Lock Co., New Britain, Conn.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Griffin Mfg. Co. (Also Wrought Steel Hinge Hasps), Erie, Pa.
Hazel Atlas Glass Co., Wheeling, W. Va.
Humason & Beckley Mfg. Co., New Britain, Conn.
Lawrence Bros. (Wrought Iron), Sterling, Ill.
National Mfg. Co., Sterling, Ill.

Ney Mfg. Co., Canton, O.
Racine General Mfg. Co., Racine, Wis.
Reading Hardware Co. (Wrought Iron), Reading, Pa.
Richards Mfg. Co., Aurora, Ill.
STANLEY WORKS (Wrought Crate for Berry Boxes, etc.), New Britain, Conn. (See adv. index & branch offices, end of book)
Vaughan & Bushnell Mfg. Co., 877 Carroll av., Chicago, Ill.
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.

Hatch Doors (Automatic)

Bardsley Bros., 151 Baxter, New York
Beckwith Elevator Co., 123 Pearl, Boston, Mass.

COHOES IRON FOUNDRY & MACHINE CO. ("Snow"), Cohoes, N. Y. (See adv. index, end of book)

Curran, Jas. H. Elevator Co., Cincinnati, O.
Richmond Safety Gate Co., Richmond, Ind.
Salem Elevator Works, Salem, Mass.

SEDGWICK MACHINE WORKS, 128 Liberty, New York & Poughkeepsie, N. Y. (See adv. index, end of book)

SPIDEL, JOHN G., Reading, Pa. (See adv. index, end of book)

Stevens, Wm. (Est. of), 1221 Frankford av., Philadelphia, Pa.
Underwriters Hatch Door Co., 58 N. Jefferson, Chicago, Ill.

WARNER ELEVATOR MFG CO., Spring Grove av., Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg., Buffalo, N. Y. (See adv. index & branch offices, end of book)

Webb, J. R. (Excelsior), 414 Bleecker, New York
Weichans, A. C., 202 W. James, Lancaster, Pa.

Hatch Doors (Automatic in Case of Fire Only)

REEDY, H. J. CO. (Fusible Link in Case of Fire), Cincinnati, O. (See adv. index, end of book)

Richmond Safety Gate Co., Richmond, Ind.
Underwriters Hatch Door Co. (Electric), 58 N. Jefferson, Chicago, Ill.

Victor Mfg. Co. (Fusible Link), Newburyport, Mass.

Hatch Gates (Automatic)

(See Elevator Gates, Automatic)

Hatchet Mfrs.

American Axe & Tool Co. (All Kinds), Glassport, Pa., 253 B'way, New York

Arcade Mfg. Co. (Cast Shingling, etc.), Freeport, Ill.

Bangor Edge Tool Co. ("Hunting"), Bangor, Me.

Black, John B. ("Wm. Beatty & Sons," "Royal" Ice, Half Shingling, Claw, Lathing, Barrel, Produce, Warehouse or Tobacco Broad, etc.), Chester, Pa.

Bradley's, G. W. Sons (Inc.), Westport, Conn.

Burgess-Norton Mfg. Co. ("Black Eagle"), Geneva, Ill.

Chantrell Tool Co. (Cast Iron & Steel), Reading, Pa.

Coilins Co., Collinsville, Conn.

Evansville Tool Works (All Kinds), Evansville, Ind.

Findlay Axe & Tool Co., Findlay, O.

Franklin Specialty Co. ("Clark" Nickel Plated), Reading, Pa.

Germantown Tool Works, 518 Commerce, Gtn. Phila., Pa.

Gleason & Allen, Plymouth, Conn.

Hammond, C. & Son (All Kinds), Ogontz, Pa.

Harding Edge Tool Co., c McWhorter & Oliver, Newark, N. J.

Hardware & Woodenware Mfg. Co. (Cast Iron, etc.), 693 B'way, New York

Mack & Co. ("D. R. Barton"), Rochester, N. Y.

Mason & Parker, Winchendon, Mass.

North Wayne Tool Co. (the "Karadam," Tobacco, etc.), Hallowell, Me.

Norton Tool Co. (Shingling, Lathing, Half, Claw, Broad, Hunters', etc.), West Park, Ohio

Peck Edge Tool Co. (All Kinds), Cohoes, N. Y.

Peck, Stow & Wilcox Co., Southington, Conn.

Phoenix Hardware Mfg. Co., Homer, N. Y.

Plumb, Fayette R., c Tucker & Trenton av., Phila., Pa.

Rocky Hill Hardware Co., Rocky Hill, Conn.

Sayre, L. A. Co., Newark, N. J.

Stortz, John, & Son (Ice), 210 Vine, Philadelphia, Pa.

Weston, Thos. B., 118 Centre Market space, Baltimore, Md.

White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.

Wiebusch & Hilger (Ltd.), 13 Murray, New York

Williams, A. C. Co., Ravenna, O.

Williams, C. A. & Co., Skowhegan, Me.

Wrightsville Hdw. Co. (Claw, Shingles & Half), Wrightsville, Pa.

Hay Racks (Folding)

Folding Hay Rack Co. ("White & Gaylord"), Forest Lawn, N. Y.

Hay Racks (Wire & Iron)

Barnum, E. T. Wire & Iron Works, 82 Washington av., Detroit, Mich.

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)

Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.

Mack Iron Works, Sandusky, O.

Ohio Road Machinery Co. ("Farmer's Friend"), Oberlin, O.

Headers (Barrel)

Swett, A. I. Iron Works (Or Barrel Presses), Medina, N. Y.

Headers (Fruit Can)

Avars Machine Co. ("Merriam"), Salem, N. J.

NIAGARA MACHINE & TOOL WORKS, Buffalo, N. Y. (See adv. index, end of book)

Headers (Rivet)

(See Rivet Heading Machines)

Headers (Rod)

Manville, E. J. Machinery Co., Waterbury, Conn.
National Machinery Co., Tiffin, O.

Headers (Screw Blank)

Manville E. J. Machine Co., Waterbury, Conn.

*Headers (Tin Can)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Headers (Wire)

Blake & Johnson Co., Waterbury, Conn.

Headlights (Acetylene Gas)

Adams & Westlake, Ontario c N Franklin, Chicago, Ill.

Rushmore Dynamo Works, Plainfield, N. J.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Headlights (Arc)

(See Headlights, Electric Car)

Headlights (Arc, Electric Mine Locomotive)

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Headlights (Electric Car)

(See also Headlights, Locomotive)

Adams & Westlake Co. (Arc & Incandescent), Ontario c N Franklin, Chicago, Ill.

Boesch Lamp Co., San Francisco, Cal.

Crouse-Hinds Electric Co. (Arc & Incandescent), Syracuse, N. Y.

Dayton Mfg. Co. (Arc & Incandescent; "Eureka," "Mosher," "Rex," "Venus," "Wayenhals," "Wellman"), Dayton, O.

Defiance Lantern & Stamping Co., Defiance, O.

Dewey, F. O. Co., 28 Canal, Boston, Mass.

Dressel Railway Lamp Works, 3860 Park av., New York

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Glaisher Headlight Co., Rochester, N. Y.

Ham, O. T. Mfg. Co., Rochester, N. Y.

Kraushaar Brass Mfg. Co. ("Anderson-Smith," Arc & Incandescent), St. Louis, Mo.
 Neal Elec Headlight Co., Boston, Mass.
 Pyle National Electric Headlight Co., 241 S Jefferson, Chicago, Ill.
 Riddon Frank Co. ("Riddon" Incandescent), Boston, Mass.
 Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y.
 Schettler, C. A. & Co. ("Duplex"), Cleveland, Ohio
 Smith, Chas. G. (Arc & Incandescent), 352 Pearl, New York
 Star Headlight Co., Rochester, N. Y.
 Trolley Supply Co. ("Climax," "Star," "Globe"), Canton, O.
 United States Headlight Co. (Arc & Incandescent), Buffalo, N. Y.
 Wheeler Reflector Co., 156 Pearl, Boston, Mass.

Headlights (Incandescent)

(See Headlights, Electric Car)

Headlights (Locomotive)

(See also Headlights, Electric Car; also Headlights, Acetylene Gas; also Headlights, Oil)
 Adams & Westlake Co. (Also Street & Interurban), Ontario & N Franklin, Chicago, Ill.
 Boesch Lamp Co., San Francisco, Cal.
 Dayton Mfg. Co., Dayton, O.
 Dewey, F. O. Co., 28 Canal, Boston, Mass.
 Dressel Railway Lamp Co., 3860 Park av. New York
 Glazier Head Light Co., Rochester, N. Y.
 Handlan-Buck Mfg. Co. (Handlan), 210 N 3d, St. Louis, Mo.
 Kraushaar Brass Mfg. Co., St. Louis, Mo.
 Pyle-National Elec. Headlight Co., 241 S Jefferson, Chicago, Ill.
 Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y.
 Schroder Headlight Co., Evansville, Ind.
 Sherburne & Co., 53 Oliver, Boston, Mass.
 Star Headlight Co., Rochester, N. Y.
 United States Headlight Co. (Electric, Gas & Oil), Buffalo, N. Y.
 Wheeler Reflector Co., 156 Pearl, Boston, Mass.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Headlights (Oil)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
 Dayton Mfg. Co., Dayton, O.
 Defiance Lantern & Stamping Co. (Kerosene), Rochester, N. Y.
 Smith, Chas. C., 352 Pearl, New York
 Star Headlight Co., Rochester, N. Y.
 United States Headlight Co., Buffalo, N. Y.

Heads (Buffing)

Meriden Machine Tool Co., Meriden, Conn.

Heads (Coke Scraper)

Oliver Iron & Steel Co., Pittsburg, Pa.
 Phillips Mine & Mill Supply Co., Pittsburg, Pa.
PITTSBURGH GAGE & SUPPLY CO. ("Pittsburgh"), 30th & Liberty av., Pittsburg, Pa. (See adv. index, end of book)

Heads (Cutter)

American Woodworking Machinery Co., Rochester, N. Y., & West Street bldg, New York
 Bentel & Margedant Co., Hamilton, O.
 Buettner & Shelbourne Machine Co. ("B. & S"), Terre Haute, Ind.
 Ettinger Machine Co., Chester, Pa.
 Fav, J. A. & Egan Co., Cincinnati, O.
 Philbrick, W. W., Seattle, Wash.
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Schellenbach-Hunt Tool Co. ("Universal" Expanding Cutter Boring), Cincinnati, O.

Shimer, Samuel J. & Sons (Expansion), Milton, Pa.
 Sault, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Thompson, W. S., 418 W 24th, New York

Heads (Dado)

Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind
 Bentel & Margedant Co., Hamilton, O.
 Fox Machine Co., Grand Rapids, Mich.
 Huther Bros. Saw Mfg. Co., Rochester, N. Y.

Heads (Die)

Adjustable Collet Co., Cleveland, O.
MURCHEY MACHINE & TOOL CO. (Automatic), 52 Porter, c 4th av., Detroit, Mich. (See adv. index & branch offices, end of book)
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

*Heads (Golf)

PAGE-STORMS DROP FORGE CO. (Drop Forged Steel), Chicopee, Mass. (See adv. index, end of book)

*Heads (Hard Fibre)

DELAWARE HARD FIBRE CO. (For Spark Colls, Spools, etc.), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (For Spark Colls, Spools, etc.), Elsmere, Del. (See adv. index, end of book)

Heads (Hollow Augur)

Bentel & Margedant Co., Hamilton, O.

Heads (Index & Dividing)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Cincinnati Milling Machine Co., Spring Grove av & Alfred, Cincinnati, O.
 Garvin Machine Co., 137 Varick, New York
 Owen Machine Tool Co., Springfield, O.
 Pratt & Whitney Co., Hartford, Conn.

Heads (Piston)

Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.
 Pratt & Letchworth Co., Buffalo, N. Y.

Heads (Planer)

Crucible Steel Co. of America (La Belle Steel) Frick bldg, Pittsburg, Pa.

Heads (Polishing)

Builders' Iron Foundry, Providence, R. I.
 Goodell-Pratt Co. (Also Grinding), Greenfield, Mass.
 Hanson & Van Winkle Co., Newark, N. J.
 Zucker, Levett & Loch Co., 516 W 25th, New York

Heads (Screw Cutting Die)

Modern Tool Co. (Self-Opening), Erie, Pa.
WELLS BROS CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Heads (Turret)

Baker Machine Co., New Bedford, Mass.

Heaters Acetylene)

(See Stoves, Acetylene)

*Heaters (Air)

CLAYTON AIR COMPRESSOR WKS., 115 B'way, New York. (See adv. index & branch offices, end of book)
LIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

*Heaters (Airtight Wood)

WILSON F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Heaters (Asphalt, Pitch & Tar)

(See also Machinery, Asphalt)

CANTON BOILER & ENGINEERING CO. (Asphalt & Tar), Canton, O. (See adv. index, end of book)
CONNERY & CO., 9th & Master, Phila., Pa. (See adv. index, end of book)
 Evans, P. H., 596 Kent av., Brooklyn, N. Y.
 Hooke, Robt., Chattanooga, Tenn.
 Itenhorst, Joseph Co., Cincinnati, O.
 Iroquois Iron Works, Buffalo, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, N. Y. (See adv. index, end of book)
 Littleford Bros., 435 E Pearl, Cincinnati, O.
 Lyman, W. C., 49 Michigan, Chicago, Ill.
MACLEOD, WALTER, & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

Schellenbach & Budkey, Jersey City, N. J.
 Stuebner, G. L. Iron Works, Long Island City, N. Y.
 Turl's, Jno. Sons, 26 Cortlandt, New York; Works: Newburgh, N. Y.
 Universal Road Machinery Co. (Melting Tanks), 55 Liberty, New York
 Union Iron Works, Hoboken, N. J.

Heaters (Automobile & Carriage)

Chicago Auto Heater Co. ("H. & H."), 285 N State, Chicago, Ill.
CHICAGO FLEXIBLE SHAFT CO. ("Clark"), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

Kelly Mfg. Co. (Vehicle), Waterloo, Iowa
 Lehman Bros. ("Star"), 10 Bond, New York
 McCord Mfg. Co. ("McCord"), Detroit, Mich.
 Novelty Mfg. Co. (X-Radiant), Jackson, Mich.
 Progressive Mfg. Co. ("Porty"), Penna, Ill.
 Seaman, Willis F. ("Peerless"), Mincola, N. Y.
 Standard Stamping Co. ("Standard"), Marysville, O.

Heaters (Barrel)

Hynson Tool & Supply Co. ("Champion"), St. Louis, Mo.
 Jacobs, Kenneth W., Milwaukee, Wis.
 Manitsee Iron Works Co., Manitsee, Mich.
 Warsaw Elevator Co., Warsaw, N. Y.

Heaters (Bath)

(See Heaters, Water)

*Heaters (Bench Rivet)

CHICAGO FLEXIBLE SHAFT CO. ("Stewart" Gas Blast), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

Heaters (Car Coal)

Baker, Wm. C. ("Mighty Midget," Hot Water), 143 Liberty, New York
CHICAGO CAR HEATING CO. (Vapor System), Railway Exchange bldg, Chicago, Ill., & 170 B'way, New York. (See adv. index & branch offices, end of book)

CHICAGO CAR HEATING CO.

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 CHICAGO
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 NEW YORK

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Steam Hose Couplers. Train Pipe Valves. Safety Valves. Car Heater and Drain Valves. Steam Traps. Car Heater Fittings. Catalogue describing all devices, cheerfully furnished upon application.

Cooper Heater Co. (Hot Water), Dayton, O.
Consolidated Car Heating Co. (Direct Steam & Hot Water), 42 B'way, New York, & 413 N Pearl, Albany, N. Y.
Detroit Stove Works ("Jewell"), Detroit, Mich.
Germen Stove Co. ("Radlant" Hot Water), Erie, Pa.
Gold Car Heating & Lighting Co., 17 Battery pl, New York
Safety Car Heating & Lighting Co., 2 Rector, New York
Smith, Peter, Heater Co. (Hot Water), Detroit, Mich.
Wilks, S. Mfg. Co., 35th & Shields av, Chicago, Ill.

*Heaters (Casine)

ADVANCE MACHINERY CO., Toledo, O.
(See adv. index, end of book)

Heaters (Combination)

Barber Mfg. Co. (Hot Water & Hot Air), Ash-tabula, O.
Barstow Stove Co. ("Bay State"), 210 Water, New York & Providence, R. I.
Boynton Furnace Co., 207 Water, New York
Chicago Heater & Supply Co., 54 Dearborn, Chicago, Ill.
Cox, Abram, Stove Co., cor American & Dauphin, Phila., Pa.
Earley, Wm. (Hot Air, Hot Water & Steam), 1216 Ridge av, Phila., Pa.
Excelsior Steel Furnace Co., 38 W Monroe, Chicago, Ill.
Fuller-Warren Co., Milwaukee, Wis.
Fuller & Warren Co., Troy, N. Y.
Giblin & Co., Utica, N. Y.
Hart & Crouse Co., Utica, N. Y.
Henderson, Frank, Troy, N. Y.
International Heater Co., Utica, N. Y.
Kelth Furnace Co., Des Moines, Ia.
Kohler Furnace & Steam Heating Co., 1342 Columbus av, Rox., Boston, Mass.
McCrum-Howell Co. (Hot Air & Hot Water), 103 Park av
Magee Furnace Co., 38 Union, Boston, Mass.
Makin Heating Co., 803 Locust, Phila., Pa.
March-Brownback Stove Co., Pottstown, Pa.
Merseus Patent Baking Grate Works, 1203 Philbert, Philadelphia, Pa.
Monroe Foundry & Furnace Co., Monroe, Mich.
Mott, J. L., Iron Works (Hot Air & Hot Water), 118 5th av, New York
Mueller, L. J. Furnace Co., Milwaukee, Wis.
Peninsular Stove Co. (Hot Air & Hot Water), 10th & W Fort, Detroit, Mich.
Portland Stove Foundry Co., Portland, Me.
Quaker Mfg. Co. (Hot Air & Hot Water), Chicago Heights, Ill.
Reading Stove Works (Hot Air & Hot Water), Reading, Pa.
Richardson & Boynton Co., 234 Water, New York
Sheppard, Isaac A. & Co., 1801 N 4th, Phila., Pa.
Smith, Chas. Co. (Hot Air & Hot Water), 122 Lake, Chicago, Ill.
Southard-Robertson Co., 257 Water, New York
Stamford Foundry Co. (Hot Air & Hot Water), Stamford, Conn.
Utica Heater Co., Utica, N. Y.
Walker & Pratt Mfg. Co., 33 Union, Boston, Mass.
White, Chas. H. & Co., 22 Bowker, Boston, Mass.

*Heaters (Dexterine)

ADVANCE MACHINERY CO., Toledo, O.
(See adv. index, end of book)

Heaters (Electric)

American Electrical Heater Co. ("Uncle Sam," for Cooking, Heating, etc.), Detroit, Mich.
Barr, W. J. Electric Mfg. Co. ("Eureka"), Cleveland, O.
Butte Engineering & Elec. Co., San Francisco, Cal.
GENERAL ELECTRIC CO., Schenectady, N. Y. & 30 Church, New York. (See adv. index & branch offices, end of book)
Manning, Bowman & Co. (Cooking Utensils), Meriden, Conn.
Nagel, W. G. Elec. Co. ("Fisk"), Toledo, O.
National Electric Heating Co., Cambridge, Mass.
Pacific Elec. Heating Co., Ontario, Cal.
Penn. Electric Heating Co., Koppel, Pa.
Rathbone & Panigot Co. (Fire Places & Stoves), Grand Rapids, Mich.
St. Louis Electric Heating Co. (All Forms of Electrical Heating Devices), St. Louis, Mo.
Simplex Electric Heating Co. ("American"), Cambridge, Mass.

WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Heaters (Electric Car)

Consolidated Car Heating Co., 42 B'way, New York, & Albany, N. Y.
Gold Car Heating & Lighting Co., 17 Battery pl, New York
Johns, H. W.-Manville Co. ("J-M"), 100 William, New York
Prometheus Electric Co., 236 E 43d, New York
Simplex Electric Heating Co., Cambridge, Mass.

Heaters (Feed Water)

(See also Purifiers, Feed Water)

Alberger Condenser Co. ("Walnwright"), 95 Liberty, New York
Allen, Wm. & Sons Co. ("Victor," "Excelsior"), Worcester, Mass.
ALLIS-CHALMERS CO. ("Reynolds"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Angells, Jno. E. & Co., St. Louis, Mo.
Baragwanath, Wm. & Son, 52 W Division, Chicago, Ill.
Bates Machine Co. ("Cookson"), Joliet, Ill.
Berry Engineering Co., Chester, Pa.
Berryman Feed Water Co., 65 W 2d, Phila., Pa.
Berryman Feed Water Heater & Purifier Co., 127 N 4th, Phila., Pa.
BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
Brancher Bros. ("Little Giant"), Danville, Ill.
Bridgeport Boiler Works ("Lowe"), Bridgeport, Conn.
Brownell Co. (Standard & Improved), Dayton, Ohio
CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Catchpole, A. & Co., Geneva, N. Y.
Chicago Steam Boiler Works, Chicago, Ill.
Cole, R. D. Mfg. Co., Newnan, Ga.
Colles, E. G. T. & Co., 20 S Canal, Chicago, Ill.
Cox & Sons Co., Bridgeton, N. J.
Davis, I. B. & Son ("Berryman," "Gleaner" & "Hartford"), Hartford, Conn.
Duquesne Mfg. Co. ("Gunning," Mechanical Heater & Purifier), Pittsburgh, Pa.
Eclipse Feed Water Heater & Purifier Co. ("Eclipse"), Oshkosh, Wis.
Erie City Iron Works (Open & Counter Current, etc.), Erie, Pa.
Erie Machine Shops ("Jackson"), Erie, Pa.
Erie Mfg. & Supply Co. ("Hardwick & Riblet"), Erie, Pa.
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Filnt, Sam'l E. & Co. ("St. Louis"), Security bldg, St. Louis, Mo.
Frost Mfg. Co. ("Frost" Standard), Galesburg, Ill.
Fulton Iron Works ("Llewellyn"), San Francisco, Cal.
Gem City Boiler Co., Dayton, O.
Goubert Mfg. Co. ("Goubert"), 90 West, New York
Great Lake Engineering Works (Heaters & Purifiers), Detroit, Mich.
Green Fuel Economizer Co., Matteawan, N. Y.

GRISCOM-SPENCER CO. ("Reilly") Multicoil Marine & Stationary, 90 West, New York, & ft. Washington av, Philadelphia, Pa. (See adv. in preceding column & branch offices, end of book)
Harrisburg Pipe & Pipe Bending Co. ("Excelsior," "Improved American"), Harrisburg, Pa.

Harrison Safety Boiler Works ("Cochrane"), 17th & Allegheny av, Philadelphia, Pa.
Hartwell Iron Works, Houston, Tex.
Hawley Down Draft Furnace Co. ("Excelsior"), Chicago, Ill.

Hoppes Mfg. Co., Springfield, O.
Hussey, McCann & Co. (Compound Flue), 87 Warren, New York

Jacobs, Charles & Co. ("Jacobs" Water Tube), 51 Oliver, Boston, Mass.

KEELER, E. CO., Williamsport, Pa. (See adv. index & branch offices, end of book)

Kelley, Benj. F. & Son ("Standard," "Berryman"), 20 Cortlandt, New York

KEWANEE BOILER CO. ("Kewanee," Open Type), Kewanee, Ill., & 35 Michigan av, Chicago, Ill. (See adv. index, end of book)

Keyes, F. E. & Son, 20 Broad, New York
Knight & Jllison Co. ("Stickle"), Indianapolis, Ind.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Kroeschell Bros. Co. ("Kroeschell," "Bourgeois"), Chicago, Ill.

Learmonth, Robert ("The Buffalo"), Buffalo, N. Y.

Linton Machine Co., 26 Cortlandt, New York
Loew Mfg. Co., Cleveland, O.

McGowan, John H. Co., Cincinnati, O.
Manthey-Sieker Co. ("Crawley" Heater & Purifier), Milwaukee, Wis.

Marion Incline Filter & Heater Co. ("Marion" Heater & Purifier), Marion, O.

MICHELMANN STEEL CONSTRUCTION Co. (Closed), Quincy, Ill. (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index, & branch offices, end of book)

Moffat Feed Water Heater & Purifier Co., Detroit, Mich.

Multicoil Co., 78 Broad, New York

Murray Iron Works, Burlington, Iowa
Nason Mfg. Co., 71 Beekman, New York

National Pipe Bending Co. ("National"), New Haven, Conn.

Nordberg Mfg. Co. ("The Milwaukee"), 476 Virginia, Milwaukee, Wis.

O'Brien, Jno. Boiler Works Co. ("Weaver"), St. Louis, Mo.

Open Coil Heater & Purifier Co. ("Stickle" Heater & Purifier), Indianapolis, Ind.

Patterson, Frank L. & Co. ("Patterson-Berryman"), 26 Cortlandt, New York

PETROLEUM IRON WORKS CO. ("Lowe"), Sharon, Pa., & Farmers' Bank bldg, Pittsburgh, Pa. (See adv. index, end of book)

Phoenix Iron Works Co. ("Munn"), Meadville, Pa.

Pittsburg Feed Water Heater Co., Pittsburgh, Pa.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

PLATT IRON WORKS CO. ("Stillwell") Open & Closed, Dayton, O. (See adv. index & branch offices, end of book)

Power Equipment Co. ("Peco"), 1005 Wyandotte, Columbus, O.

Power Plant Specialty Co. ("Voter"), 247 S Jefferson, Chicago, Ill.

Pratt, Stephen, Boiler Works ("Keller's"), Detroit, Mich.

Rogers, F. G., Buffalo, N. Y.

Russell Engine Co., Massillon, O.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)

Shms Co., Erie, Pa.

Springfield Boiler & Mfg. Co., Springfield, Ill.

Standard Machinery Co., Cham. of Com. bldg, Chicago, Ill.

Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York

Steam Appliance Co. ("Triumph"), Milwaukee, Wis.

Stewart Heater Co. (Open & Tubular; also "The Otis"), Buffalo, N. Y.

Tndor Boiler Mfg. Co., Cincinnati, O.

Union Iron Works Co., San Francisco, Cal.

Webster, Warren & Co., Camden, N. J.

Wetherill, Robt. & Co., Chester, Pa.



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Wheeler Condenser & Engineering Co. ("Volz" & Multiple Effect), Cartaret, N. J.
Whitlock Coll Pipe Co. ("American Standard," Copper Coll), Elmwood, Conn.
Wickes Bros., Saginaw, Mich.
Wildman Bros., 1280 W 12th, Chicago, Ill.

Heaters (Fire Engine & Engine House)

American Fire Engine Co., Seneca Falls, N. Y.

Heaters (Fire Place)

Abendroth Bros., 109 Beekman, New York
Bibb, B. C. Stove Co., 107 Light, Baltimore, Md.
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Reading Stove Works, Reading, Pa.
Sexton, S. B. Stove & Mfg. Co., 7 S Gay, Baltimore, Md.
Superior Mfg. Co. (Inc.) (For Natural or Artificial Gas), Pittsburg, Pa.

Heaters (Gas)

(See Stoves & Heaters & Ranges, Gas)

Heaters (Gas, for Tailors' Irons)

Clark, Geo. M., & Co. ("Jewel"), 82 Michigan av., Chicago, Ill.

*Heaters (Gelatine)

ADVANCE MACHINERY CO., Toledo, O. (See adv. index, end of book)

Heaters (Glue)

ADVANCE MACHINERY CO. ("Wetmore" Electric, Gas, Portable, Oil & Steam), Toledo, O. (See adv. index, end of book)
American Electrical Heater Co. (Electric), 123 State, Detroit, Mich.
BECK, CHAS. PAPER CO. (LTD.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)

DAME & TOWNSEND CO. (Steam Jackets), Cliff & Fulton, New York. (See adv. index, end of book)

Dart, E. M. Mfg. Co., Providence, R. I.
Francis, Chas. E. & Co., Rushville, Ind.
Grammes, L. F. & Sons, Allentown, Pa.

HAMMACHER, SCHLEMMER & CO., 133 4th av., N. Y. (See adv. index, end of book)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Nason Mfg. Co., 71 Beekman, New York
Pancoast, Henry B. & Co. (Steam), 243 S. 3d, Phila., Pa.

Towsley, Jno. T. Mfg. Co. (Steam), Cincinnati, O.

Stuart & Peterson Co. (Steam), Burlington, N. J.

Vulcan Copper Works (Steam), 120 Sycamore, Cincinnati, O.

Weatherly Co. (Steam), Grand Rapids, Mich.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Heaters (Hot Water)

(See Heaters, Steam & Hot Water)

Heaters (Lamp Chimney)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

*Heaters (Locomotive Tire)

MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

Heaters (Oil)

(See Stoves & Heaters, Oil)

Heaters or Meal Cookers

Buckeye Iron & Brass Works, Dayton, O.

*Heaters (Paraffine)

ADVANCE MACHINERY CO., Toledo, O. (See adv. index, end of book)

*Heaters (Portable, for Repair Work)

MACLEOD, WALTER & CO. ("Buckeye"), 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

*Heaters (Soldering Iron)

CHICAGO FLEXIBLE SHAFT CO. ("Stewart" Gas Blast), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

Heaters (Steam & Hot Water)

Firms that manufacture Hot Water Heaters only are designated thus (Hot Water) between name and address.

(See also Heaters, Steam & Hot Water Trade Names; also Heating Contractors, Steam & Hot Water; also Steam Fitters' Supplies)

CALIFORNIA.

SAN FRANCISCO—Royal Heating Co., 412 4th

CONNECTICUT.

HARTFORD—Whitlock Coll Pipe Co. (Hot Water)

NEW HAVEN—Foskett & Bishop Co. National Pipe Bending Co. (Hot Water)

NEW LONDON—Hopson & Chapin Mfg. Co. (Hot Water, also Sectional)

NORWICH—McCrum-Howell Co., Main Office Young, John T., Boiler Co. New York

PUTNAM—Putnam Foundry & Machine Co.

SOUTH NORWALK—Colonial Foundry & Machinery Co.

WILLIMANTIC—Vanderman Mfg. Co.

ILLINOIS.

AURORA—Aurora Boiler Works (Inc.)
CHICAGO—American Radiator Co. ("Ideal"), 282 Michigan av

Clow, Jas. B. & Sons, 342 Franklin
Columbia Heating Co. ("Florence" Boiler, Steam & Hot Water) 125 Monroe

Davis, Jno. Co., 22d & Union
GORTON & LIDGERWOOD CO., Fisher bldg. (See adv. index, end of book)

Herbert Boiler Co., 240 Root
Holland Radiator Co., 38 Dearborn

Illinois Malleable Iron Co., 537 Diversey
International Heater Co. (of Utica, N. Y.), 48 Dearborn

Kellogg-Mackay Co., 19 W 18th
KEWANEE BOILER CO., 35 Michigan. (See adv. index, end of book)

Kroeschell Bros. Co. (Steel Plate Greenhouse Boilers), 55 Erie

Mott, J. L. Iron Works, Merchants Loan & Trust bldg

Reynolds, B. F., & Co. (Combination Warm Air & Hot Water), 46 Dearborn av

Wilks, S. Mfg. Co. (Hot Water), 35th c
Shields av

GALVA—Hayes Pump & Planter Co. (Hot Mulford Heater Co. Water)

GIBSON CITY—Gibson Iron Works
JOLIET—Adams Steel & Wire Works (Hot Water)

KEWANEE—KEWANEE BOILER CO. (See adv. index, end of book)

Peters Pump Co.
MOLINE—Barnard & Leas Mfg. Co.

PEORIA—McAleenan Boiler Co.

INDIANA.

ANDERSON—Anderson Foundry & Mach. Wks.
EVANSVILLE—Grote Mfg. Co. (Sectional)

INDIANAPOLIS—Hawkins, Rollin Co. (Hot Shirley Radiator & Foundry Co. Water)

SYRACUSE—Advance Radiator Co. (Hot TERRE HAUTE—Prox. Frank Co. Water)

WARSAW—Malsh Mfg. Co.

IOWA.

CEDAR RAPIDS—Iowa Radiator Co.
DES MOINES—Des Moines Mfg. & Supply Co. Turner & Brownlie

MARSHALLTOWN—Shorthill, A. E., Co.
OSKALOOSA—Ideal Heating Co.

Interstate Mfg. Co.
Iowa Mfg. Co.

Seevers Mfg. Co.
RED OAK—Kerrihard Co. (Hot Water)

MAINE.

PORTLAND—Portland Stove Foundry Co. (Hot Water)

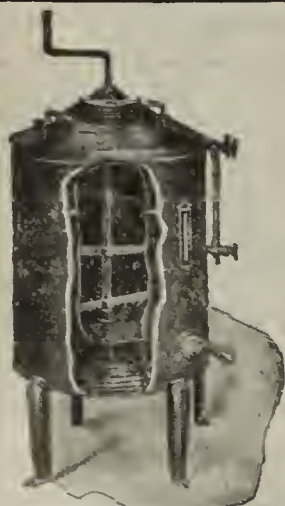
MARYLAND.

BALTIMORE—Flynn & Emrich, 222 N Holliday

Greenmount Iron & Mfg. Co., 883 Greenmount av

Sheppard, Isaac A. & Co., Eastern av & Chester

Stevenson & Co. (Hot Water), 601 S Carroll
Wood, W. E. Co., 18 N Howard line



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GARDNER—Royal Steam Heater Co.

METHUEN—Sanborn Furnace Co.

TAUNTON—Dighton Furnace Co. Weir Stove Co. White-Warner Co.

WATERTOWN—Walker & Pratt Mfg. Co.

WESTFIELD—Smith, H. B. Co.

WORCESTER—Allen, Wm., Sons Co. Brunnelle, F. X. Mfg. Co. Stewart, C., & Son

MICHIGAN.

DETROIT—Brennan, John & Co. Detroit Heating & Lighting Co. (Hot Water, Bolton Hot Water Heater), Wight Peninsular Stove Co., nr Lelah Smith, Peter Heater Co., 328 Rivard U. S. Heater Co., 251 Campbell av

GRAND RAPIDS—Rapid Heater Co. Vulcan Foundry Co. (Hot Water)

JACKSON—Keeley, James J.

KALAMAZOO—Humphrey Co. (Hot Water)

MONROE—Monroe Foundry & Furnace Co. (Steam & Hot Water) Practical Heater Co. ("Practical" Steam Heater & Ventilator)

SAGINAW—Eureka Heating & Ventilating Co. (C. W. Light, Prop.) ("Eureka")

MINNESOTA.

HOPKINS—Moran Boiler Co.

MINNEAPOLIS—Andrews Heating Co. ("Andrews" Steel) Kellogg-Mackay Co., 100 2d, S

ST. PAUL—South Park Foundry & Machine Co. (Hot Water), Gilfillan blk.

MISSOURI.

KANSAS CITY—Prest Heating & Foundry Co.

ST. LOUIS—Haynes-Langenberg Mfg. Co., 4057 Forest Park boulev Sodeman Heat & Power Co., 1512 Clark av

NEW HAMPSHIRE.

EXETER—Exeter Machine Works

NEW JERSEY.

PARTLEY—Bartley, R. C., Co. Bartley, Wm. & Son

BRIDGETON—Cox & Sons Co.

DOVER—Dover Boiler Works

GARWOOD—Enterprise Foundry Co.

JERSEY CITY—Weathered Co. ("Weathered" Sectional), Orient & West End avs

NEWARK—Drake, W. H., 36 Clinton Thatcher Furnace Co., 36 St. Francis

NEW BRUNSWICK—Prospect Boiler Co.

PATERSON—Columbia Heater Co.

NEW YORK.

ALBANY—Bates, Edw. P. (of Syracuse, N. Y.)

BUFFALO—Buffalo Radiator Co.

ELMIRA—Elmira Heater & Foundry Co.

GENEVA—Catchpole Boiler Foundry & Machine Co. Herendeen Mfg. Co. ("Furman") New York Central Iron Works Co. Vance Boiler Works

IRVINGTON—Lord & Burnham Co. (Hot Water)

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Roys System Co., 913 Gates av Scollay, Jno. A., 74 Myrtle av

Boroughs of Manhattan & Bronx.

NEW YORK—Abendroth Bros., 109 Beekman Baker, Smith & Co., 83 W Houston Barstow Stove Co. (Hot Water) (of Providence, R. I.), 210 Water Boynton Furnace Co., 207 Water

DONEGAN & SWIFT ("Swift"), 6 Murray. (See adv. index, end of book) Fuller & Warren Co. (of Troy, N. Y.), 1 Madison av & 256 Water

GORTON & LIDGERWOOD CO., 96 Liberty. (See adv. index, end of book) Herendeen Mfg. Co. (of Geneva, N. Y.) 296 Pearl

Hitchings & Co. (Hot Water), 1170 B'way International Heater Co. (of Utica, N. Y.) Johnson & Co., 104 John 1 Madison av Lord & Burnham Co. (Hot Water), 1133 McCrum-Howell Co., 46 E 20th B'way Model Heating Co., 76 Centre Mott, J. L. Iron Works, 118 5th av Nason Mfg. Co., 71 Beekman New York Central Iron Works Co. (of Geneva, N. Y.), 150 Nassau Page, Wm. H. Boiler Co., 15 Murray Pierce, Butler & Pierce Mfg. Co. (of Syracuse, N. Y.), 254 4th av Richardson & Boynton Co., 234 Water Rutzler, E. Co., 127 White Sheppard, Isaac A. & Co. (of Phila., Pa.), 220 Water

Smith, H. B. Co. (of Westfield, Mass.), 89 E Houston Thatcher Furnace Co., 110 Beekman United States Heater Co. (of Detroit, Mich.), 129 Worth

(End of New York City)

NORTH TONAWANDA—Niagara Radiator & Boiler Co. (Cast Iron Boilers)

OLEAN—Luther Mfg. Co.

ONEIDA—Warner Safety Boiler Co.

PULASKI—Olmstead, A. E.

ROCHESTER—Co-operative Foundry Co. Electric Boiler Co. (Hot Water)

SYRACUSE—Bates, Edw. P. Pierce, Butler & Pierce Mfg. Co. (Modern Improved)

TROY—Aird-Don Co. Fuller & Warren Co. Mahony Heating, Ventilating & Blower Co. Pinkerton, Robert, Green Island

UTICA—Giblin & Co. Hart & Crouse Co. International Heater Co. Utica Heater Co.

OHIO.

AKRON—Prudential Heating Co. ("Prudential") XXth Century Heating & Ventilating Co. ("XXth Century")

CANTON—McLain, J. H. Co. Novelty Iron Co.

CINCINNATI—Peck-Hammond Co., 124 E Pearl U. S. Heating & Plumbing Co., 744 W Court

CLEVELAND—Connelly, D. Boiler Co.

DAYTON—Concord Mfg. Co. Cooper Heater Co. Craig-Reynolds Foundry Co.

MARTINS FERRY—Stanton Heater Co.

NORWALK—Star Heating Co. (H. K. Ernsberger, Prop.)

TOLEDO—National Supply Co.

WELLSVILLE—Whitacre, E. G., Boiler Co.

WOOSTER—McClure Co. ("Marshall," "McClure")

PENNSYLVANIA.

ALLENTOWN—Calorific Heater Co. ("Calorific," also Sectional)

COATESVILLE—Coatesville Boiler Works

COLLEGEVILLE—Freed Heater Co.

EASTON—Norton, H. M.

ERIE—Sims Co. (Hot Water)

HANOVER—Davidson Heating & Const. Co.

HARRISBURG—Harrisburg Mfg. & Boiler Co.

LANDISVILLE—Monitor Steam Generator Mfg. Co. ("Monitor" Wrought Iron Coil Boilers. Low Pressure. Steam or Vapor & Hot Water)

LANSDALE—Heebner & Sons

MIDDLETOWN—Raymond Mfg. Co.

MORRISTOWN—Gibbons, W. I. (Steam & Hot Water)

PHILADELPHIA—Cox & Sons Co., 215 Race Earley, Wm. (Portable Hot Water & Air & Hot Air & Steam), 1216 Ridge av Kane, Wm. Mfg. Co., 1915 Adams

HEATING

with the Gorton Side Feed Boiler insures a warm building day and night in coldest weather and gives greatest economy in coal.

GORTON & LIDGERWOOD CO., 96 Liberty St., NEW YORK CITY

Mershon Patent Shaking Grate Co., 1203
Model Heating Co., 142 N 10th Filbert
Mott, J. L. Iron Works, Commonwealth
Trust bldg
Pierce, Butler & Pierce Mfg. Co., 936 Arch
Sheppard, Isaac A. & Co., 1801 N 4th
Vapor Heating Co. ("Broomell's" Vapor
System), North American bldg
Wood, Jas. P. Heating Co., 39 S 4th
PITTSBURG—American Radiator Co. ("Ideal")
Pittsburg Water Heater Co.
Raud Mfg. Co. (Hot Water), 29th &
Smallman
SCAIFE, WM. B. & SONS CO., 221
1st av. (See adv. index, end of book)
POTTSTOWN—Sotter Bros.
READING—Prizer-Painter Stove & Heater Co
Reading Radiator Co.
Reading Stove Works ("Sunshine" Steam
& Hot Water)
SCRANTON—Speucer Heater Co. ("Spencer")
TATAMY—Messenger Mfg. Co.
TYRONE—Burley Heater Co.
UNIONTOWN—McCrum-Howell Co., Main Of-
fice, New York
WEST NEWTON—United States Radiator &
Boiler Co.
WILLIAMSPORT—KEELER, E. CO. (See
adv. index, end of book)
Williamsport Radiator Co.
YORK—Eronell, Schindt, Steacy & Co. (Inc.)

RHODE ISLAND.

PROVIDENCE—Allen Fire Dep't Supply Co.
Barstow Stove Co. (Hot Water)

TENNESSEE.

CHATTANOOGA—Casey-Hodges Co. (Low
Pressure Boilers)

VERMONT.

NORTH BENNINGTON—Simmons, H. C.

VIRGINIA.

RICHMOND—Coppidge Heater Corp'n

WASHINGTON.

SEATTLE—Kellogg-Mackay Co.

WISCONSIN.

DE PERE—Lyon Boiler & Iron Works (Steel
Boilers)
GREEN BAY—Burns Boiler Co.
MILWAUKEE—Fuller-Warren Co., 32d c Wright
Mueller, L. J. Furnace Co.
Schwab, R. J. & Sons Co.
SHEBOYGAN—Optenberg Iron Works Co.

Heaters (Steam & Hot Water, Trade Names)

(For address of firms consult Heaters, Steam
& Hot Water)

(Heaters used for hot water solely are so
designated)

"ACME"—Hot Water & Steam—American
Radiator Co., Chicago, Ill.
"ACME"—Wm. Bartley & Son, Bartley, N. J.
"ADMIRAL"—Hot Water & Steam—Boynton
Furnace Co., New York
"ADVANCE"—Hot Water—Pierce, Butler &
Pierce Mfg. Co., Syracuse, N. Y.
"ADVANCE"—Steam & Hot Water—Advance
Radiator Co., Syracuse, Ind.
"AJAX"—Smith & Thayer Co., Boston, Mass.
"ALLEN"—Wm. Allen & Sons, Worcester,
Mass.
"ALL RIGHT"—Wm. H. Page Boiler Co.,
New York
"AMERICAN"—Kellogg-Mackay Co., Chic-
ago, Ill.
"AMERICAN"—Hot Water—Whitlock Coll
Pipe Co., Hartford, Conn.
"AMERICAN"—Steam—Pierce, Butler & Pierce
Mfg. Co., Syracuse, N. Y.
"AMHERST"—Hot Water—McLain, J. H. Co.,
Canton, O.
"ANDREWS"—Hot Water—Andrews Heating
Co., Minneapolis, Minn.
"ANDRUS"—Hot Water—Abendroth Bros.,
New York
"ANNAPOLIS"—Steam—J. H. McLain Co.,
Canton, O.
"ARGAND"—Colonial Fdy. & Machinery Co.,
South Norwalk, Conn.
"AUBURN"—Steam—Utica Heater Co., Utica,
N. Y.
"BAKER, SMITH & CO.'S"—Baker, Smith &
Co., New York
"BARNARD"—Hot Water—Barnard & Leas
Mfg. Co., Moline, Ill.

"BATES"—Edw. P. Bates, Syracuse, N. Y.
"BAY STATE"—Hot Water & Steam—Bar-
stow Stove Co., Providence, R. I.
"BERMUDA"—Hot Water—Co-Operative Foundry
Co., Rochester, N. Y.
"BERNHARD"—Steam & Hot Water—Enter-
prise Foundry Co., Garwood, N. J.
"BLAST"—J. H. McLain Co., Canton, O.
"BOLTON"—Hot Water—Detroit Heating &
Lighting Co., Detroit, Mich.
"BOLTON, G. & J. B. IMPROVED"—Fos-
kett & Bishop Co., New Haven, Conn.
"BOYNTON"—(Steam & Hot Water)—Boynton
Furnace Co., New York
"BRIGHT IDEA"—Gurney Heater Mfg. Co.,
Boston, Mass.
"BROOMELL'S"—Vapor System—Vapor Heat-
ing Co., Phila., Pa.
"BRUNELLE"—F. X. Brunelle, Worcester,
Mass.
"BUFFALO"—Steam & Hot Water—Buffalo
Radiator Co., Buffalo, N. Y.
"BURLEY"—Burley Heater Co., Tyrone, Pa.
"BURNHAM"—Lord & Burnham Co., New
York
"BURNHAM"—Steam & Hot Water—John
Davis Co., Chicago, Ill.
"CALORIC"—Hopson & Chapin Mfg. Co., New
London, Conn.
"CALORIFIC"—Steam & Hot Water, also Sec-
tional—Calorific Heater Co., Allentown, Pa.
"CAMBRIDGE"—Steam—J. H. McLain Co.,
Canton, O.
"CAPITAL"—Broomell's Patented Vapor Sys-
tem—Vapor Steam Heating Co., Phila., Pa.
"CAPITOL"—Hot Water—U. S. Heater Co.,
Detroit, Mich.
"CARTON"—International Heater Co., Utica,
N. Y.
"CATCHPOLE"—Catchpole Boiler, Foundry
& Machine Co., Geneva, N. Y.
"CENTURY"—Steam & Hot Water—Kewanee
Boiler Co., Kewanee, Ill.
"CHAMPION"—Thatcher Furnace Co., New
York
"CHARMER"—Freed Heater Co., Collegeville,
Pa.
"COLUMBIA"—"Hennings"—Hot Water—Col-
umbia Heater Co., Paterson, N. J.
"COLUMBIA"—Hot Water—McLain, J. H. Co.,
Canton, O.
"COLUMBIA"—Vance Boiler Works, Geneva,
N. Y.
"COLUMBIA IMPROVED"—Hot Water—
South Park Foundry & Machine Co., St.
Paul, Minn.
"COMFORT"—Steam & Hot Water—Thatcher
Furnace Co., Newark, N. J.
"COMMONWEALTH"—Hot Water—Walker
& Pratt Mfg. Co., Boston, Mass.
"COPPRIDGE"—Hot Water—Coppidge Heat-
er Corp'n, Richmond, Va.
"CORNELL"—Steam—J. H. McLain Co., Can-
ton, O.
"COTTAGE"—H. B. Smith Co., Westfield,
Mass.
"CRAIG"—Steam & Hot Water—Williams-
port Radiator Co., Williamsport, Pa.
"CRAWFORD"—Steam & Hot Water—Walker
& Pratt Mfg. Co., Boston, Mass.
"CRESCENT"—Gibby Foundry Co., Boston,
Mass.
"CROWN GEM"—Johnson & Co., New York
"DACK"—Hot Water—Hayes Pump & Planter
Co., Galva, Ill.
"DARTMOUTH"—Steam—J. H. McLain Co.,
Canton, O.
"DEFENDER"—Steam & Hot Water—Kewanee
Boiler Co., Kewanee, Ill.
"DEFIANCE"—Gurney Heater Mfg. Co., Bos-
ton, Mass.
"DELTA"—Steam & Hot Water—Concord
Mfg. Co., Dayton, O.
"D. H. L."—Detroit Heating & Lighting Co.,
Detroit, Mich.
"DORIC"—Gurney Heater Mfg. Co., Boston,
Mass.
"DOUBLE CROWN"—Hot Water—Gurney
Heater Mfg. Co., Boston, Mass.
"DRAGON"—Smith & Thayer Co., Boston,
Mass.
"DUNNING CLUB"—New York Central Iron
Works Co., Geneva, N. Y.
"DUPLEX CROWN"—U. S. Heating & Pbg.
Co., Cincinnati, O.
"EARLEY"—Earley, Wm., Phila., Pa.
"ECLIPSE"—John Davis Co., Chicago, Ill.
"ECLIPSE"—Steam—Lyons Boiler Works, De
Pere, Wis.
"ECONOMIC"—Prox, Frank Co., Terre Haute,
Ind.
"ECONOMY"—International Heater Co., Utica,
N. Y.
"ECONOMY"—Steam—Menominee Falls Boil-
er Works, Menominee Falls, Wis.

"SSS COLUMBIAN"—Warner Safety Boiler
Co., Onelda, N. Y.
"SSS MAMMOTH"—Warner Safety Boiler Co.,
Onelda, N. Y.
"ELECTRIC"—Hot Water—Electric Boiler
Co., Rochester, N. Y.
"EMPIRE"—Steam & Hot Water—Thatcher
Furnace Co., New York
"EQUATOR"—Waiworth Construction & Sup-
ply Co., Boston, Mass.
"EQUATOR"—Nason Mfg. Co., New York
"EQUATOR"—Spencer Heater Co., Scranton,
Pa.
"EUREKA"—Eureka Heating & Ventilating
Co. (C. W. Light, Prop.), Saginaw, Mich.
"EXETER"—Exeter Machine Works, Boston,
Mass.
"FLORAL"—Monroe Foundry & Furnace Co.,
Monroe, Mich.
"FLORENCE"—Columbia Heating Co., Chi-
cago, Ill.
"FLORIDA"—Hot Water—Pierce, Butler &
Pierce Mfg. Co., Syracuse, N. Y.
"FLORIDA"—Kellogg-Mackay Co., Chicago,
Illinois
"FLORIDA IMPROVED"—Steam—Pierce, But-
ler & Pierce Mfg. Co., Syracuse, N. Y.
"400 SERIES"—Gurney Heater Mfg. Co., Bos-
ton, Mass.
"F.-W. CO."—Fuller-Warren Co., Milwaukee,
Wis.
"FREED"—Hot Water—Freed Heater Co.,
Collegeville, Pa.
"FURMAN, JR."—Herendeen Mfg. Co., Gene-
va, N. Y.
"GALVA"—Hot Water—Mulford Heater Co.,
Galva, Ill.
"GEM"—Hot Water—Abendroth Bros., New
York
"GEM"—Johnson & Co., New York
"GEM TORRID"—W. H. Drake, Newark, N. J.
"GIANT TORRID"—W. H. Drake, Newark,
N. J.
"GOLD SECTIONAL"—H. B. Smith & Co.,
Westfield, Mass.
"GORTON"—Gorton & Ldgerwood Co., New
York
"GOTHIC"—Gurney Heater Mfg. Co., Boston,
Mass.
"GREAT NORTHERN"—Hot Water & Steam
—Kewanee Boiler Co., Kewanee, Ill.
"GREAT WESTERN"—Shorthill, A. E. Co.,
Marshalltown Iowa
"GROTE"—Sectional—Grote Mfg. Co., Evans-
ville, Ind.
"GULF STREAM"—Hot Water—Nason Mfg.
Co., New York
"GUNTHER'S"—Steam & Hot Water—
Peter's Pump Co., Kewanee, Ill.
"GURNEY"—Gurney Heater Mfg. Co., Bos-
ton, Mass.
"HARVARD"—Hot Water—J. H. McLain Co.,
Canton, O.
"HAWKEYE OVAL"—Hot Water & Steam—
Iowa Mfg. Co., Oscaloosa, Iowa
"HAXTUN"—Steam & Hot Water—Kewanee
Boiler Co., Kewanee, Ill.
"HECLA"—U. S. Heater Co., Detroit, Mich.
"HENDERSON ORBIS"—Prizer-Painter
Stove & Heater Co., Reading, Pa.
"HENDERSON - THERMO"—Prizer-Painter
Stove & Heater Co., Reading, Pa.
"HERBERT"—Herbert Boiler Co., Chicago,
Illinois
"HOLLAND"—Hot Water—Holland Radiator
Co., Chicago, Ill.
"HOMESTEAD"—Steam & Hot Water—
Smith, H. B., Co., Westfield, Mass.
"HOPSON"—Hopson & Chapin Mfg. Co., New
London, Conn.
"HORNET"—Steam & Hot Water—W. H.
Page Boiler Co., New York
"HOWARD"—International Heater Co., Utica,
N. Y.
"HUB"—Smith & Anthony Co., Boston, Mass.
"HUMBER"—Hot Water—J. H. McLain Co.,
Canton, O.
"HUNTER'S"—Jas. Hunter, Albany, N. Y.
"HY DUTY ECONOMIC"—Steam & Hot Water—
Franz Prox Co., Terre Haute, Ind.
"IDEAL"—Steam & Hot Water—American
Radiator Co., Chicago, Ill.
"ILLINOIS"—Tank—Illinois Malleable Iron
Co., Chicago, Ill.
"IMICO"—Steam & Hot Water—Illinois
Malleable Iron Co., Chicago, Ill.
"IMPERIAL"—Steam & Hot Water—Mes-
singer Mfg. Co., Tatamy, Pa.
"IMPERIAL"—Utica Heater Co., Utica, N. Y.
"IMPERIAL SUNSHINE"—Steam & Hot
Water—Reading Stove Works, Reading,
Pa.
"IMPROVED GIANT"—Steam & Hot Water
—Pierce, Butler & Pierce Mfg. Co., Syra-
cuse, N. Y.

"INTERNATIONAL"—International Heater Co., Utica, N. Y.
 "INTERNATIONAL"—Luther Mfg. Co., Olean, N. Y.
 "INVINCIBLE"—Steam—Lyons Boiler Works, De Pere, Wis.
 "INVINCIBLE"—John A. Scollay, (Est. of), Brooklyn, N. Y.
 "IOWA"—Steam & Hot Water—Seevers Mfg. Co., Oskaloosa, Ia.
 "JACKET"—Gurney Heater Mfg. Co., Boston, Mass.
 "JUNIOR"—Steam—Herbert Boiler Co., Chicago, Ill.
 "KERNAN"—International Heater Co., Utica, N. Y.
 "KEWANEE"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill.
 "KEWANEE FIRE BOX"—Steam & Hot Water—Kewanee Boiler Co., Kewanee, Ill.
 "KEYSTONE"—Broomell, Schmidt & Co., Ltd., York, Pa.
 "KLYMAX"—Steam & Hot Water—Kellogg-Mackay Co., Chicago, Ill.
 "LACKAWANNA"—Spencer Heater Co., Scranton, Pa.
 "LANSDALE"—Heebner & Sons, Lansdale, Pa.
 "LEADER"—Hot Water—Putnam Foundry & Machine Co., Putnam, Conn.
 "LEHIGH"—Steam—McLain, J. H. Co., Canton, O.
 "LITTLE GIANT"—Giblin & Co., Utica, N. Y.
 "LITTLE GIANT"—Kellogg-Mackay Co., Chicago, Ill.
 "LITTLE GIANT"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "LORD & BURNHAM"—Hot Water—Lord & Burnham Co., Irvington, N. Y.
 "MAGEE"—Magee Furnace Co., Boston, Mass.
 "MAHONY"—Mahony Htg. Vent. & Blower Co., Troy, N. Y.
 "MASCOT"—U. S. Heater Co., Detroit, Mich.
 "MAJESTIC SUNSHINE"—Steam & Hot Water—Reading Stove Works, Reading, Pa.
 "MARVEL"—Interstate Mfg. Co., Oskaloosa, Iowa
 "MENLO"—Steam & Hot Water—H. B. Smith Co., Westfield, Mass.
 "MERCER"—H. B. Smith Co., Westfield, Mass.
 "MERSHON"—Steam & Hot Water—Mershon Patent Shaking Grate Works, Phila., Pa.
 "MILLS"—H. B. Smith Co., Westfield, Mass.
 "MILTON"—Steam & Hot Water—Freed Heater Co., Collegeville, Pa.
 "MODEL"—Kellogg-Mackay Co., Chicago, Ill.
 "MODEL"—Steam—Model Heating Co., Phila., Pa.
 "MODERN IMPROVER"—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "MONARCH"—Hot Water—McAleenan Boiler Co., Peoria, Ill.
 "MONARCH"—Steam & Hot Water—W. H. Page Boiler Co., New York
 "MONARCH SUNSHINE"—Reading Stove Works, Reading, Pa.
 "MONITOR"—Monitor Steam Generator Mfg. Co., Landisville, Pa.
 "MONOGRAM"—Hot Water Heaters—Hopson & Chapin Mfg. Co., New London, Conn.
 "MORAN"—Moran Boiler Co., Hopkins, Minn.
 "MULFORD"—Mulford Heater Co., Galva, Ill.
 "NATIONAL"—Hot Water—National Pipe Bending Co., New Haven, Conn.
 "NEW COLUMBIA"—Steam & Hot Water—South Park Fdy. & Mach. Co., St. Paul, Minn.
 "NEW DEPARTURE"—Elmira Heater & Foundry Co., Elmira, N. Y.
 "NEW ERA"—Steam & Hot Water—Spencer Heater Co., Scranton, Pa.
 "NEW LIFE"—Des Moines Mfg. & Supply Co., Des Moines, Ia.
 "NEW NATIONAL"—Steam & Hot Water—National Supply Co., Toledo, O.
 "900 SERIES"—Gurney Heater Mfg. Co., Boston, Mass.
 "999 COLUMBIAN"—Steam & Hot Water—Warner Safety Boiler Co., Oneida, N. Y.
 "999 MAMMOTH"—Steam & Hot Water—Warner Safety Boiler Co., Oneida, N. Y.
 "NONPAREIL"—E. Rutzler Co., New York
 "NORTON"—Sectional—Steam & Hot Water—H. M. Norton, Easton, Pa.
 "NORWICH"—Young, John T., Boiler Co., Norwich, Conn.
 "NOVELTY"—Hot Water—Model Heating Co., Phila., Pa.
 "O. K."—H. B. Smith Co., Westfield, Mass.
 "OHIO"—Hot Water—McLain, J. H. Co., Canton, O.
 "ONTARIO"—Kellogg-Mackay Co., Chicago, Illinois

"ONTARIO"—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "OUR FAVORITE"—R. C. Bartley Co., Bartley, N. J.
 "OUR OWN"—Hot Water—Broomell, Schmidt Steacy & Co., York, Pa.
 "OUR OWN"—Steam & Hot Water—Novelty Iron Co., Canton, O.
 "OXFORD"—Steam—J. H. McLain Co., Canton, O.
 "PAGE SECTIONAL"—W. H. Page Boiler Co., New York
 "PALACE KING"—International Heater Co., Utica, N. Y.
 "PALACE QUEEN"—International Heater Co., Utica, N. Y.
 "PARAGON"—Isaac A. Sheppard & Co., 1801 Philadelphia, Pa.
 "PATRIOT"—Boynton Furnace Co., New York
 "PEASE ECONOMY"—International Heater Co., Utica, N. Y.
 "PENINSULAR"—Hot Water—Peninsula Stove Co., Detroit, Mich.
 "PENTECOST"—Allen Fire Dept. Supply Co., Providence, R. I.
 "PEQUOT"—Hopson & Chapin Mfg. Co., New London, Conn.
 "PERFECT"—Kellogg-Mackay Co., Chicago, Illinois
 "PERFECT"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "PERFECT GEM"—Abendroth Bros., New York
 "PHELPS' IDEAL"—Ideal Heating Co., Oskaloosa, Ia.
 "PROGRESS"—Steam & Hot Water—Hatcher Furnace Co., New York
 "PLUMMER"—Putnam Foundry & Machine Co., Putnam, Conn.
 "POSITIVE"—Hot Water—Monitor Steam Generator Mfg. Co., Phila., Pa.
 "PRINCETON"—Hot Water—J. H. McLain Co., Canton, O.
 "PRUDENTIAL"—Steam & Hot Water—Prudential Heating Co., Akron, O.
 "RADI CIRCULATOR"—Warner Safety Boiler Co., Oneida, N. Y.
 "RADIUM"—Prox, Frank Co., Terre Haute, Ind.
 "RAPID"—Rapid Heater Co., Grand Rapids, Mich.
 "RICHARDSON"—Richardson & Boynton Co., New York
 "RICHMOND"—Steam & Hot Water—McCrum-Howell Co., New York
 "ROBERTS"—Freed Heater Co., Collegeville, Pa.
 "ROSSMORE"—Steam & Hot Water—Thatcher Furnace Co., New York
 "ROYAL"—Hart & Crouse Co., Utica, N. Y.
 "ROYAL"—Royal Steam Heater Co., Gardner, Mass.
 "ROYAL TORRID"—W. H. Drake, Newark, N. J.
 "ROYS"—W. E. Roys, Brooklyn, N. Y.
 "RUGBY"—J. H. McLain Co., Canton, O.
 "SANBORN"—Steam and Hot Water—Sanborn Furnace Co., Methuen, Mass.
 "SANDOW"—Hot Water—J. H. McLain Co., Canton, O.
 "SCIENTIFIC COTTAGE"—Hot Water—Warner Safety Boiler Co., Oneida, N. Y.
 "SCOLLAY"—John A. Scollay (Est. of), Brooklyn, N. Y.
 "SEEVERS"—Seevers Mfg. Co., Oskaloosa, Ia.
 "SMOKELESS WONDER"—Steam & Hot Water—Ideal Heating Co., Oskaloosa, Ia.
 "SHIRLEY"—Steam & Hot Water—Shirley Radiator & Foundry Co., Indianapolis, Ind.
 "666 COLUMBIAN"—Warner Safety Boiler Co., Oneida, N. Y.
 "SOLEIL"—Steam & Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "SOTTER'S"—Sotter Bros., Pottstown, Pa.
 "SPENCE"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "SPENCE"—Kellogg-Mackay Co., Chicago, Ill.
 "SPENCER"—Steam & Hot Water—Spencer Heater Co., Scranton, Pa.
 "STANDARD"—Giblin & Co., Utica, N. Y.
 "STAR"—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
 "STAR"—Hot Water—Star Heating Co., Norwalk, O.
 "STAR" (Gas Burner)—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
 "STERLING"—Hot Water—Thatcher Furnace Co., New York
 "SUCKER"—Hot Water—Rollyn Hawkins Co., Indianapolis, Ind.
 "SUN"—Raymond Mfg. Co., Middletown, Pa.
 "SUN"—Steam & Hot Water—U. S. Radiator & Boiler Co., West Newton, Pa.
 "SUNRAY"—J. L. Mott Iron Works, New York

"SUNSHINE"—Prizer-Painter Stove & Heater Co., Reading, Pa.
 "SUNSHINE"—Iowa Mfg. Co., Oskaloosa, Ia.
 "SUPERIOR"—Utica Heater Co., Utica, N. Y.
 "SWIFT"—Steam & Hot Water—Donegan & Swift, New York
 "TABASCO"—Water—Kewanee Boiler Co., Kewanee, Ill.
 "THATCHER"—Sectional Steam & Hot Water—Thatcher Furnace Co., New York
 "THAYER"—Gibby Foundry Co., Boston, Mass.
 "THE LIFE"—Des Moines Mfg. & Supply Co., Des Moines, Ia.
 "TIP-TOP"—Thayer Heater Co., Boston, Mass.
 "TORRID"—W. H. Drake, Newark, N. J.
 "TOURNAINE"—Kellogg-Mackay Co., Chicago, Ill.
 "TOURNAINE"—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "TRINITY"—Hot Water—McLain, J. H. Co., Canton, O.
 "TRIUMPH"—Hot Water—Orr, Painter & Co., Reading, Pa.
 "TRIUMPH SERIES"—Steam & Hot Water—Craig-Reynolds Foundry Co., Dayton, O.
 "TROPIC"—Kellogg-Mackay Co., Chicago, Ill.
 "TROPIC"—Hot Water—Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 "TROJAN"—Steam & Hot Water—Aird-Don Co., Troy, N. Y.
 "TUBULAR"—J. H. McLain Co., Canton, O.
 "XXTH CENTURY"—Steam & Hot Water—XXth Century Heating & Ventilating Co., Akron, O.
 "VANCE"—Boiler Works, Geneva, N. Y.
 "VANDERMAN"—Vanderman Mfg. Co., Wilimantic, Conn.
 "VASSAR"—J. H. McLain Co., Canton, O.
 "VESTAL SUNSHINE"—Reading Stove Works, Reading, Pa.
 "VOLCANO"—Water Tube—Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
 "VOLUNTEER"—Wm. H. Page Boiler Co., New York
 "WALKER"—Steam & Hot Water—Walker & Pratt Mfg. Co., Boston, Mass.
 "WEATHERED"—Hot Water—Weathered Co., Jersey City, N. J.
 "WEST POINT"—J. H. McLain Co., Canton, O.
 "WILKS"—S. Wilks Mfg. Co., Chicago, Ill.
 "WINCHESTER"—Steam & Hot Water—Smith & Thayer Co., Boston, Mass.
 "WINCHESTER"—Smith & Thayer Co., Boston, Mass.
 "WINTHROP"—Hot Water—Dighton Furnace Co., Taunton, Mass.
 "X. L."—H. B. Smith Co., Westfield, Mass.
 "YALE"—Hot Water—J. H. McLain Co., Canton, O.
 "ZENITH"—Coatesville Boiler Works, Coatesville, Pa.

Heaters (Sterilizing, Electric)

Electro Dental Mfg. Co., 1228 Cherry, Phila., Pa.
 Rolfe Electric Co., Rochester, N. Y.

Heaters (Tank)

Beler Water Heater Co. ("Beler"), Pittsburg, Pa.
 Butler Co., Butler, Ind.
 Challenge Co., Batavia, Ill.
 Cone, R. D. Co., Winona, Minn.
FAIRBANKS, MORSE & CO. (Galvanized Steel), Wabash av & Eldredge pl., Chicago, Ill. ((See adv. index & branch offices, end of book))
 Gale Mfg. Co., Albion, Mich.
 Hunt, Helm, Ferris & Co. ("Star," "Red Hot," "Standard," "Harvard," "Cracker Jack," "Perfection," "Black Jack" & "Iron King"), Harvard, Ill.
 International Heater Co., Utica, N. Y.
 Kelly Foundry & Machine Co., Goshen, Ind.
 Kelly Mfg. Co., Waterloo, Iowa
 Kewanee Boiler Co., Kewanee, Ill., & 169 E. Lake, Chicago, Ill.
 McCrum-Howell Co. ("Richmond"), 103 Park av., New York
 Miller, Wm., Range & Furnace Co., Cincinnati, O.
 Mott, J. L. Iron Works ("Sunray"), 5th av & 17th, New York
 National Steel Tank Co., Niles, Mich.
 Northwestern Steel & Iron Works, Eau Claire, Wis.
 Novelty Iron Co., Canton, Ohio.
 Pittsburg Steel Tank Co. ("Sun"), Pittsburg, Pa.
 Pittsburg Water Heater Co. ("Lion"), 1300 River av., N. S., Pittsburg, Pa.
 Red Cross Mfg. Co., Bluffton, Ind.
 St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.
 Thornburgh Mfg. Co. (Cast Iron), Bowling Green, O.

Heaters (Tar)

(See Heaters, Asphalt, Pitch & Tar)

Heaters (Tire)

(See Furnaces, Tire Heating)

Heaters (Tuyere Iron)

Gogel Mfg. Co. (Gas, Gasoline or Oil), Toledo, O.
Hoosier Forge Co. ("Vulcan"), Connersville, Ind.

Heaters (Water, Automatic)

American District Steam Co. (Automatic, for Heating Water Direct from Steam Lines), Lockport, N. Y.
Anderson-McCutchen Co. ("Anderson"), Peekskill, N. Y.
Beilman, W. E. ("Seamans"), Buffalo, N. Y.
Gilbert & Barker Mfg. Co. ("Springfield" Coil Gas), Springfield, Mass.
Gordon, A. D. ("Duplex," for Domestic Use), Buffalo, N. Y.
Hammond-Hamberger Co. ("Niagara" Automatic), Silver Creek, N. Y.
Hayden & Derby Mfg. Co. ("H. D." Noiseless for Heating Liquids by Direct Steam), 85 Liberty, New York
Pittsburg Water Heater Co., Pittsburg, Pa.
Pompelan Mfg. Co. ("Perfection"), Cleveland, O.
Ruud Mfg. Co. (Gas), 29th & Smallman, Pittsburg, Pa.
Standard Heater Co., Power bldg., Pittsburg, Pa.
Wood, John Mfg. Co. ("Electric Weld," Gas), Conshohocken, Pa.

Heaters (Water, Bath or Tank)

Abendroth Bros. ("York," "Little Gem"), 109 Beekman, New York
Adams Steel & Wire Works, Joliet, Ill.
American Radiator Co. ("Ideal" Tank Heater), 282 Michigan av., Chicago, Ill.
American Stove Co. ("Jewell," "Reliable" and "Monarch"), St. Louis, Mo., & 72 Lake, Chicago, Ill.
Augmore Mfg. Co., Cleveland, O.
Beilman, W. E. ("Seamans" Automatic), Buffalo, N. Y.
Challenge Mfg. Co., S Norwalk, Conn.
Clark, Geo. M. & Co., 72 Lake, Chicago, Ill.
Crane, Wm. M. Co. ("Unique" and "Vulcan"), 1133 Broadway, New York
Dayton Supply Co. ("Dayton Ohio," Instantaneous), Dayton, O.
Detroit Stove Works ("Paragon" Tank), Detroit, Mich.
Eclipse Gas Stove Co. (Gas), Rockford, Ill.
Eynon-Evans Mfg. Co. ("Noiseless"), 1519 Clearfield, Phila., Pa.
Federal-Huber Co. ("Gegenstrom"), Halsted & Fulton, Chicago, Ill., & 244 5th av., New York
Fuller & Warren Co., Troy, N. Y.
Gilbert & Barker Mfg. Co. (Springfield, Coil Gas), Springfield, Mass.

GORTON & LIDGERWOOD CO., 96 Liberty, New York, & Fisher bldg., Chicago, Ill. (See adv. index, end of book)
Gurney Heater Mfg. Co., 188 Franklin, Boston, Mass.

Haberling, Chas. ("Columbian"), Columbus, O.
Hitchings & Co. (Bath Heaters), 1170 B'way, New York
Hoffman Heater Co. (Gas), Lorain, O.
Hollands Mfg. Co., Erie, Pa.

Homestead Heater & Mfg. Co. ("Homestead"), Homestead, Pa.
Humphrey Co. (Gas, Instantaneous), Kalamazoo, Mich.
Ideal Mfg. Co., Detroit, Mich.

Illinois Malleable Iron Co. ("Illinois" Tank), 515 Diversey boul., Chicago, Ill.
Instantaneous Water Heating Co. (Instantaneous, "Douglas," "Acme" & "Flush"), 155 S Jefferson, Chicago, Ill.

Iron Clad Mfg. Co. (Gas & Gasoline), 204 Varet, Brooklyn, N. Y.
Kenwood Automatic Water Heater Co., Milwaukee, Wis.

KEWANEE BOILER CO. ("Tobasco"), Kewanee, Ill., & 35 Michigan av., Chicago, Ill. (See adv. index, end of book)
Knight & Jillson Co. ("Holden," Coal and Gas), Indianapolis, Ind.

Large, W. H. & Co. ("Success," "Jaxon," "Mascott," Gas & Gasoline), Detroit, Mich.
Lawson Mfg. Co. (Gas), Homestead, Pa.

Lord & Burnham Co. (Bath Heaters), New York

McDowell Mfg. Co. ("Gable"), 541 Wood, Pittsburg, Pa.

Milwaukee Gas Stove Co. ("Perfection," Gas), Milwaukee, Wis.

Monarch Water Heater Co. ("Instantaneous"), 1342 River av., Allegheny, Pa.

Mott, J. L. Iron Works, 118 5th av., New York

Mustee Bros. ("Marvel"), 204 Cedar av., Cleveland, O.

Nonparell Mfg. Co., 322 Post, San Francisco, Cal.

Novelty Iron Co. ("Our Own," Tank & Laundry, etc.), Canton, O.

Odin Stove Mfg. Co. (Gas), Erie, Pa.

O'Neill Water Heater Mfg. Co. (Instantaneous), Peoria, Ill.

Patterson, T., San Luis Obispo, Cal.

Peer Water Heater Co. (Inc.) ("Peer"), 39 State, Chicago, Ill.

Peerless Stove & Range Co. (Gas), Columbus, Ohio

Phillips Gas Stove Works (Gas), 420 E. St., Cincinnati, O.

Pittsburg Water Heater Co. ("Pittsburg," "Lion"), North Side, Pittsburg, Pa.

Rapid Heater Co. ("Rapid"), Grand Rapids, Mich.

Ribbon Water Heating Co. (Hearst bldg.), San Francisco, Cal.

Sadtler, J. P. B. ("Heller"), Baltimore, Md.

Schiffertle, Fredolin ("Gem"), 1224 S. Broadway, St. Louis, Mo.

Schneider Closet & Heater Co. (Bath), Ann Arbor, Mich.

Schneider & Trenkamp Co., Cleveland, O.

Solar Heater Co. ("Climax-Solar"), Los Angeles, Cal.

Stamford Gas Stove Co. (Gas), Stamford, Conn.

Standard Heater Co. ("Standard" & "Leader" Instantaneous Automatic), Pittsburg, Pa.

Stephenson Mfg. Co. ("Zenith," Automatic Instantaneous), 209 Sandusky, Allegheny, Pa.

Sterling Instantaneous Water Heater Co., Allegheny, Pa.

Stevenson & Bro. ("Dewey"), New Castle, Pa.

Taylor Burner & Electroplating Co. (Kinystest), 804 Duquesneway, Pittsburg, Pa.

Varwig Mfg. Co. ("Crown" Automatic), Cincinnati, O.

Vogelgesang Furnace Co. ("Prize Cylinder"), Columbus, O.

Walker & Pratt Mfg. Co., 31 Union, Boston, Mass.

Weiskittle, A. & Son ("Fire King" Gas), Allentown & Washington, Baltimore, Md.

Western Malleable & Grey Iron Mfg. Co. (Tank), Milwaukee, Wis.

White Mfg. Co. (Gas), 192 Michigan, Chicago, Ill.

Wilkes, S. Mfg. Co., 35th & Shields av., Chicago, Ill.

Wood, Jno. Mfg. Co. ("Daisy" & Electric Weld Combination), Conshohocken, Pa.

Woodworth-Evans Co. ("Economy"), 112 Wood, Pittsburg, Pa.

Youngstown Range & Stove Co., Youngstown, Ohio.

Heaters (Water Bottle, Electric)

(See Heaters, Water, Electric)

Heaters (Water Coil)

Belor Water Heater Co. ("Belor"), Pittsburg, Pa.

Pittsburg Water Heater Co. (Copper Coil), Pittsburg, Pa.

Ruud Mfg. Co. (Gas), 29th & Smallman, Pittsburg, Pa.

Standard Heater Co., Pittsburg, Pa.

Heaters (Water, Electric)

Electro Dental Mfg. Co. (Sterilizers & Water Heaters), 1228 Cherry, Phila., Pa.

H-C-K Co. (Water Heaters Only), 30 Greenwich, New York

Meier Dental Mfg. Co. ("Standard" Water Bottle Heaters), St. Louis, Mo.

Heaters (Water, Instantaneous)

Adams Steel & Wire Works, Joliet, Ill.

American Stove Co. ("Jewell" Gas), 414 N 6th, St. Louis, Mo.

Belor Water Heater Co. ("Belor"), Pittsburg, Pa.

Clark, Geo. M. & Co. ("Jewel" Gas), 82 Michigan av., Chicago, Ill.

Crane, W. M. Co., 16 W 32d, New York

Dayton Supply Co. ("Ohio M"), Dayton, O.

Detroit Stove Works ("Detroit," "Jewell"), Detroit, Mich.

Gilbert & Barker Mfg. Co. ("Springfield"), Springfield, Mass.

H. C. K. Co. ("H. C. K." Electric), 30 Greenwich av., New York

Harris, J. Co. ("Harris"), 1232 E 3d, Cleveland, O.

Hoffman Heater Co. ("Hoffman" Automatic), Lorain, O.

Humphrey Co. ("Crescent" Automatic), Kalamazoo, Mich.

Instantaneous Water Heating Co. ("Douglas," "Acme," "Flush"), 155 S Jefferson, Chicago, Ill.

Kenwood Automatic Water Heater Co., Milwaukee, Wis.

Knight & Jillson Co. ("Holden" Coal or Gas), Indianapolis, Ind.

Lawler Regulator Co. ("Lawler's"), 473 W B'way, New York

Lawson, L. S. Mfg. Co., Homestead, Pa.

McDowell Mfg. Co. ("Gable"), 541 Wood, Pittsburg, Pa.

Miller Foundry & Specialty Co. (Automatic), North Tonawanda, N. Y.

Monarch Water Heater Co., 306 Wood, Pittsburg, Pa.

Morrison-Kretschmer Co. ("Morrison"), Duquesne, Pa.

Mustee Bros. ("Marvel"), 204 Cedar, Cleveland, Ohio

O'Neill Water Heater Mfg. Co. (Gas), Peoria, Ill.

Nonparell Instantaneous Heater Co., San Francisco, Cal.

Peerless Kitchen Boiler & Supply Co., 35 Randolph, Chicago, Ill.

Phillips Gas Stove Works ("Standard"), 420 E. 8th, Cincinnati, Ohio

Pittsburg Water Heater Co. ("Pittsburg" Automatic and "Lion"), North Side, Pittsburg, Pa.

Ruud Mfg. Co. ("Thermal" Automatic Gas), 29th & Smallman, Pittsburg, Pa.

Sadtler, J. P. B. & Co. ("Heller"), 813 S. Howard, Baltimore, Md.

Schneider Bath Heater Co., Ann Arbor, Mich.

Schneider & Trenkamp Co., Cleveland, O.

Seamans, Irving M. (Automatic Gas), 353 7th, Buffalo, N. Y.

Springfield Gas Appliance Co. (Automatic), Springfield, Mass.

Standard Heater Co. (Automatic), Pittsburg, Pa.

Stephenson Mfg. Co. ("Zenith Automatic"), 209 Sandusky, Allegheny, Pa.

Sterling Instantaneous Water Heater Co., Allegheny, Pa.

Varwig Mfg. Co. ("Crown" Automatic), Cincinnati, O.

Wilkes, S. Mfg. Co., 53 Clinton, Chicago, Ill.

Wood, John, Mfg. Co. ("Electric Weld" Gas), Conshohocken, Pa.

Worcester Instantaneous Water Heater Co. (And Gas Stove Combined), Worcester, Mass.

Heating Apparatus (Hot Blast)

American Blower Co., Detroit, Mich.

Baker, Smith & Co., 81 W Houston, New York

Bayley Mfg. Co., Milwaukee, Wis.

Buffalo Forge Co., Buffalo, N. Y.

Exeter Machine Works, Exeter, N. H.

Garden City Fan Co., Fisher bldg., Chicago, Ill.

Green Fuel Economizer Co., Matteawan, N. Y.

Hartford Blower Co., Hartford, Conn.

Link, E. M. Machinery Co., Erie, Pa.

Massachusetts Fan Co., Watertown, Mass.

Miller, J. K. Co., Seattle, Wash.

National Blower Works, 17th & St. Paul av., Milwaukee, Wis.

New York Blower Co., Chicago, Ill.; Factory: Bucyrus, O.

Pacific Blower & Heating Co., San Francisco, Cal.

Prentice, L. H. Co., 34 Sherman, Chicago, Ill.

St. Louis Blower & Heater Co., 1628 N 9th, St. Louis, Mo.

Scott, Robert Engineering & Construction Co., 1716 Ludlow, Philadelphia, Pa.

Sturtevant, B. F. Co., Hyde Park, Mass.

WESTINGHOUSE ELECTRIC & MFG. CO., Union B'k bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Heating Coils (for Steam or Hot Water Heating)

Green Fuel Economizer Co., Matteawan, N. Y.

New York Blower Co., 25th pl & Stewart av., Chicago, Ill.; Works: Bucyrus, O.

Heating Contractors (Steam & Hot Water)

Firms under this heading do Steam & Hot Water Fitting only.

ALABAMA.

MONTGOMERY—Alabama Machinery & Supply Co.

CALIFORNIA.

LOS ANGELES—Cass-Smurr-Damerel Co.
Hough, E. D.
Phillips Heating, Ventilating & Mfg. Co.
OAKLAND—Schmitt, George W. Heating & Ventilating Co.
California Hydraulic Engineering & Supply Co.
Cronan, Wm., 19 City Hall av
Globe Engineering Co. (Inc.)
Green Fuel Economizer Co., 99 1st
Holbrook, Merrill & Stetson, 6th & Townsend
Mangrum & Otter (Inc.), 561 Mission
Montague, W. W. & Co., 2270 Folsom
Morgan, W. & Co., Monadnock bldg
Pacific Blower & Heating Co., 3261 17th
Royal Heating Co., 412 4th
Sutton, John G. Co., 229 Minna

COLORADO.

DENVER—Bradbury Bros.
Chavey, Emilie F., 1010 18th
Goff, F. C. & Co., Temple Court
Michael Heating Co., 502 15th
Pfeiffer, C. P., 433 15th
Reilly, C. J., 1425 Curtis
Sanford's Furnace Co., 1732 Welton

CONNECTICUT.

BRIDGEPORT—Wellington & Co., 167 Stratford av
HARTFORD—Barrett & Wall, 40 Allyn
Hartford Heating Co., 278 Asylum
Murray, James T., 251 Asylum
NEW BRITAIN—Aetna Heating Co.
NEW HAVEN—Rourke Bros. Co.
Foskett & Bishop Co.
NEW LONDON—Hopson & Chapin Mfg. Co.
NORWALK—Arnold, Chas. W.
NORWICH—Barstow, J. P. & Co., 23 Water
PUTNAM—Putnam Foundry & Machine Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Biggs Heating Co., 917 H.
Butler, Chas. J., 913 G, N. W.
Febrey, E. J. & Co., 622 F, N. W.
Hendley, Jas. W., Corcoran bldg
Higgins, Walter, 910 Mass. av, N. W.
Hubbard Heating Co., 918 F, N. W.
Jobson & Morris, 509 11th, N. W.
King Heating Co., 1320 New York av, N. W.
McCuen, Wm. H. & Co., 1024 Connecticut av, N. W.
McCurdy, James P., 1311 G, N. W.
Pierpoint, John A., 310 12th, N. W.
Rees, Cyrus B., 1322 14th, N. W.
Seltzer Heating Co., 1413 G, N. W.
Stansbury, Daniel R., 1304 H, N. W.
Zellers & Co., 1333 14th, N. W.

GEORGIA.

ATLANTA—Atlanta Steam Heating Co.
Butler, Wm. A.
Cotton States Belting & Supply Co.
Engelhart-Hitchcock Co.
Warlick Sheet Metal Mfg. Co.
MACON—Schofield's, J. S. Sons Co.
SAVANNAH—Rourke, Jno. & Sons
Savannah Blow Pipe Co.

ILLINOIS.

BLOOMINGTON—American Foundry & Furnace Co. (Hot Air & Steam)
Kelser-Van Leer Co.
CHICAGO—Andrews Heating Co., 152 Lake
Arcade Steam Heating Co., 153 Kinzie
Brady & Co., 99 W Randolph
Brockway, Jno. S., 119 La Salle
Brown, N. B. & Co., 1373 W Lake
Cleave, Joseph, 5217 Lake av
Consolidated Engineering Co., 38 W Jackson
Cook & Chick Co., 255 Kinzie boulev
Deppman, A. & Co., 212 Illinois
Dixon Steam System Co., 164 Dearborn
Evans, Almirall & Co., Monadnock blk
Fox, J. L. & Co., 112 Clark
Glennon, Charles & Co., 30 La Salle
Graves, W. B. Co., 123 E Kinzie
Green Fuel Economizer Co., Old Colony
Hedmark, Joseph H., 149 Illinois bldg
Hess Warming & Ventilating Co., 131 La Salle

Ideal Heating Co., 6312 Wentworth av
Kehm Bros. Co., 226 Kinzie
Kellogg-Mackay Co., 19 W 18th
Lamb, F. W. Co., 259 E Kinzie
Lees, Wm., 97 S Clinton
Lewis & Kitchen, 1200 Michigan av
Lybrink, Chas. R., 4701 Prairie av
McDonald, Edw. S., 667 W Congress
McDonough, E. J., 230 Kinzie
Miller, W. L. Heating Co., 9 Jackson boulev
Mulherin & Co., 65 W Van Buren
Norton, F. J., 8 N State
Olson, J. H., 649 E 47th
Parke, Wm. T., 1974 W Madison
Pearce, W. H. & Co., 269 Dearborn
Peckham, Harry, Jr., 27 N Canal
Peterkin, Jno., 47 Michigan
Phillips, Getschow Co., 184 Indiana
Pope, Wm. A., 80 Lake
Prentice, L. H. Co., 24 Sherman
Purves Heating Co., 215 5th av
Ranney, Chas. D., 3568 N Clark
Simmons, C. H., 138 Washington
Spear & Hansen Co., 65 W Lake
Stott Heating System Co., Monadnock blk
Sullivan, William, 217 Kinzie
THOMAS & SMITH (Inc.), 17 S
Carpenter. (See adv. index, end of book)
Webster, Warren & Co. (Webster's System),
ELGIN—Manard, A. P. Monadnock blk
GALESBURG—Murphy Bros. & Anderson
JOLIET—Meers, R.
MOLINE—Moline Heating & Construction Co.
OTTAWA—Clegg, Jno. W.
ROCKFORD—American Heating Co.
Dougherty, Jno. M.

INDIANA.

ANDERSON—Anderson Foundry & Machine
BRAZIL—Crawford & McCrimmon Co. Works
EVANSVILLE—Carmody, J. D.
O'Donnell Steam Heating Co.
FORT WAYNE—National Mill Supply Co.
GREENCASTLE—Greencastle Foundry & Machine Co.
INDIANAPOLIS—Automatic Heating Co. (Paul System)
Dailey, L. E., 2432 N New Jersey
Johnson, W. H. & Son Co.
Kruse & Dewenter
Mast, George J. Heating Co.
Woolen & Callon

IOWA.

DES MOINES—Des Moines Mfg. & Supply Co.

KENTUCKY.

LOUISVILLE—Clegg, F. A. & Co.
McWilliams, Joseph & Co.
NEWPORT—Fennel, George H. & Co.
OWENSBORO—Guenther, W. A. & Sons

LOUISIANA.

MONROE—Sanders, John G.
NEW ORLEANS—Gibbens & Stream.
Hauptman & Loeb Co. (Ltd.)
Murphy, Jno. H.
Payne & Joubert
SHREVEPORT—Vondenbaumen-Eastham Co. (Ltd.)

MAINE.

PORTLAND—Carman, W. W.
Fels, Arthur B.
Moulton, A. H.

MARYLAND.

BALTIMORE—Basshor, T. C., Co., 28 Light
Brack, James R., 220 St. Paul
Calvert Stove & Heating Co., 107 Commerce
Enterprise Steam & Hot Water Heating Co., 107 E Lombard
Evans, David E. & Co., 215 Courtland
Fadum, Fred'k, 408 W German
Hill, Walter E. Co., 203 N Liberty
Hubbard, Alva Heating Co., 420 N Calvert
King, Chas. T. & Co., Charles & German
Myer & Moran, 327 N Holliday
Stebbins, Wallace & Sons, Charles c Lombard
Zies, Chas. & Sons, 316 S Fremont av

MASSACHUSETTS.

BOSTON—Anthony, Frank P., 36 N Centre
Bay State Heating Co., 55 Portland
Boston Furnace Co., 6 Portland
Bradlee & Chatham Co., 121 Beverly
Braman, Dow & Co., 239 Causeway
Cleghorn Co., 54 Batterymarch
Coffin, Isaac Co., 52 Sudbury
Dodge, Edwin L., 6 Friend
Duncan, Alex. Co., 83 Union
Dwyer, James P., 27 Cambria
English & Flett (Inc.), 226 Congress
Felton-Turner Heating Co., 34 Warren
Foster Heating Co., 15 Palmer, Rox.
Franklin, A. B., 62 High
Gallison, W. H. Co. (High Pressure), 36 Oliver
Green Fuel Economizer Co., 141 Milk
Greene Bros., 32 Broad
Ingalls & Kendrickson, 80 Sudbury
Johnson, Z. T., 3 India sq
Kohler Furnace & Steam Heating Co., 1342 Columbus av, Rox.
Lovering, Robert H., 24 Warren, Rox.
Lumsden & Van Stone Co., 69 High
Lynch & Woodward, 28 Beach
Merrill, Adam H. & Co., 8 Friend
Merrill Co. (High Pressure Piping), 19 Pearl
Montgomery, F. W., 359 Atlantic av
Paul System Co., Tremont bldg
Pierce & Cox, 143 Kingston
Rice, F. I. & Bennett, 72 Portland
Richardson & Clement, 20 Union
Ross, Walter B., 163 Oliver
Sanborn, C. H., 18 Post Office sq
Shearman Heating Co., 18 Union
Smith & Anthony Co., 48 Union
Trask Heating Co., 76 Sudbury
Walworth Cons. & Supply Co., 100 Pearl
Webster, Warren & Co., 24 Milk
Whitten & Jackson, 91 High
Whittier Construction Co., 54 Whittier
Woodward, Frank E. & Co., 19 Friend
FAIRHAVEN—Fairhaven Iron Foundry Co.
FALL RIVER—Fall River Steam & Gas Pipe
Kelly, Edward
GLOUCESTER—Richardson's Nathan Sons
Stodart, A. P. & Co. Mfg. Co.
LOWELL—Middlesex Machine Co.
MILFORD—Damon, J. F.
NEW BEDFORD—Babbitt Steam Specialty Co.
New Bedford Boiler & Machine Co.
SALEM—Patten, Paul B.

WYCKOFF & LLOYD COMPANY,
HEATING, VENTILATING AND PLUMBING CONTRACTORS,
POWER PIPING. MILL WORK.
SPRINGFIELD, MASSACHUSETTS.

SPRINGFIELD—Clapp, Z. C.
Estabrook, George R.
McCleane, George H. Co.
WYCKOFF & LLOYD CO., 19 Worth-
ington. (See adv. index, end of book)
WORCESTER—Braman, Dow & Co.
Brunelle, F. X., 10 Coburn av
Burlingame, A. Co.
Callahan, J. W. & Son
Central Supply Co.
Hawes, Edwin Co., 17 Vine
Holmes, M. D. & Sons, Salem sq
Houghton, F. O. Co.
Morse, A. H., 152 Institute rd
Washburn & Garfield Mfg. Co.
Whitworth Heating Co., 6 Manchester

MICHIGAN.

BAY CITY—Bialy Hardware & Supply Co.
Jennison Hardware Co.
Wilson & Wanless
DETROIT—American Blower Co.
Central Heating Co., 115 Farmer
Detroit Heating & Lighting Co., Wight nr
Dodson & Larsen, 16 W Atwater Leib
Haman, Geo. L. & Co., 675 Michigan av
Murphy Heating Co., 39 W Congress
Simonds Heating & Specialty Co., 105
Washington av
Turner, W. C., 441 Hubbard av
GRAND RAPIDS—Leitelt, Adolph, Iron Wks
Macauley Bros.
Vulcan Foundry Co.
Weatherly Co.
SAGINAW—Eureka Heating & Ventilating Co.

MINNESOTA.

FERGUS FALLS—Fergus Iron Works
MANKATO—Mankato Mfg. Co.
MINNEAPOLIS—Andrews Heating Co., 203
Hennepin av
Automatic Heating Co., Security B'k bldg
Campbell Heating Co.
Gray, W. I. & Co., 704 S 5th
Hamilton, W. C. T., 2721 Pleasant av
Hasey Heating Co., 310 S 3d av
Knights, W. R., Bryant & 34th
Krenzke, Theo. A., 26 W Lake
Manuel-Smith Heating Co., 821 S E Wash-
ington av
Quam, H. J., 1551 E Franklin av
Roberts Heating & Ventilating Co., 413 S
Saxon Heating Co., 405 6th av, S 4th
Schupp, Wm. & Co., 616 S 3d av
Splann Heating & Ventilating Co., 212 S
Tunstead Heating Co., 223 S 6th 4th
ST. PAUL—Andrews Heating Co., Pioneer
McGeary, G. M., 163 W 3d Press bldg
Roberts, John D., 286 E 6th
Sparr, E. Edw., 329 Jackson
Western Machine Mfg. Co., 443 Rosabel
WINONA—Winona Heating & Ventilating Co.

MISSOURI.

KANSAS CITY—Automatic Heating Co. (Paul
System), Scarritt bldg
Kansas City Steam & Hot Water Heating
Lewis & Kitchen, 901 B'way Co.
Martin, Henry, 1411 E 14th
Mueller A. B. Heating Co., 1737 Walnut
Prest Heating & Foundry Co.
Rood & McIntyre, 1408 Main
ST. LOUIS—Abadie, E. H. & Co., Times bldg
Advance Engineering & Construction Co.,
Victoria bldg
Ambler, Edwin P., 2822 La Salle
Automatic Heating Co., 721 Olive
Bielken Steam & Hot Water Heating Co.,
4004 Forest Park Road
Bosley, E. M., De Menil bldg
Bradley Heating Co., 3834 Olive
Branch Heating Co., 1747 N B'way
Brown Heating Co., 5971 Easton av
Cahill, Swift Mfg. Co., 20 S 12th
Carter, Frank, 3452 Oregon av
Central Heating Co., 2112 Washington av
Cozzens Heating & Construction Co., 3831
Crowder Bros., 408 Olive Finney av
Dows Heating & Mfg. Co., 4639 Delmar
boul
Elliott & Barry Engineering Co., 705 Olive
Hayes, John, 806 N 14th
Hughes, Jno. B. Heating Co., 1234 Clark av
Ideal Heating Co., 2923 Olive
Kremer-Moon Heating Co., 1417 Olive
Lomasney, Ed. J., 1916 Olive
Maloney, Wm. L., 4740 Delmar boul
Modern Heating Co., 313 Chestnut
National Heating Co., 2050 Geyer av.
National Vacuum Steam Heating Co., 717
Locust

O'Mara Heating Co., 821 Chestnut
Peters-Elchler Heating Co., 1503 Chestnut
Rossbrough Heating Co., Victoria bldg.
Sodeman Heat & Power Co., 1510 Clark av
Stockhoff Supply Co., 107 N Main
Urbaner, Atwood Heating Co., 106 S 12th
Western Heating Co., 1025 Old Manches-
ter rd

NEW HAMPSHIRE.

KEENE—Hubbard, H. W.

NEW JERSEY.

BARTLEY—Bartley, Wm. & Son
CAMDEN—Camden Heating Co.
Lounsbury, H. C., 539 Arch
Webster, Warren & Co., Point c Elm
HOBOKEN—Manahan Bros.
Stannard, Geo. W., 8th & Jefferson
JERSEY CITY—Lutton, Wm. H., Kearney &
West Side avs
Payne, John A., 260 Culver av
Schroder, F. P. Co., 307 Grand
NEWARK—Cryer, T. B. & Co., 249 High
Denny Bros. Co., 15 Mechanic
Kellogg, N. S., 763 Broad
Lawton, Bedell & Co., 204 Arcade
Reid, Jno. L., 356 Mulberry
Seymour, David C., 49 Lawrence
TOWN OF UNION—Manahan Bros.
TRENTON—Baker, Wm. H. (Factory Work,
etc.)

NEW YORK.

ALBANY—Bates, E. P.
Hunter, Jas. Heating & Contracting Co.
Tyler, Fred'k A., 36 Beaver
Warren, James D.
BINGHAMTON—Gaylord & Eitapence Co.
Innes, J. K.
Shapley & Wells
BROOKLYN—(See New York City, Borough of
Brooklyn)
GREENPORT—Hedges, Samuel
KINGSTON—Wieber, Henry E. (Est. of)
LOCKPORT—American District Steam Co.
(Holly System of Direct & Exhaust Steam)
MATTEAWAN—Green Fuel Economizer Co.
NEWARK—New Light, Heat & Power Co.

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Backert & Schroder Steam Htg.
Co., 474 B'way
Bedford Heating Co., 1233 Atlantic av
Curtin, Wm. H. Mfg. Co., 333 Adams
Hoppe, Chas. A., 5911 New Utrecht av
Jacobs, Geo. P. & Co., 276 S 9th
Kiefer, Harry, 73 Grant
O'Brien, Edw. J. & Bro. (Inc.), 284 Rodney
Phillips, Doup & Co., 56 Pearl
Rays System Co., 913 Gates av
Scollay, John A., 76 Myrtle av
Tuttle-Bailey Mfg. Co., 83 N 10th

Boroughs of Manhattan & Bronx.

NEW YORK—Abbott's, M. Sons, 137 8th av
Automatic Heating Co. (Exhaust Steam
etc.), 17 Battery pl
Backus Heating Co., 242 4th av
Bailey, Wm. R., 96 Warren
Baker, Smith & Co., 483 W B'way
Baker, Wm. C. Heating & Supply Co.
(House, Car Heating, etc.), 143 Liberty
Baldwin Engineering Co., 209 W 33d
Baldwin Heating Co., 1181 B'way
Blake & Williams, 211 W 20th
Bonner, Thos. Heating Co., 510 W 42d
Boyd Equipment Co. (Heating & Ventilat-
ing), 113 Hudson
Crooke Heating & Ventilating Co., 97 War-
ren
Cryer Return Line System, Fuller bldg
Curran, James Mfg. Co., 512 W 36th
Dewey Engineering Co., 89 Centre
Dobson, Frank, Co., 319 E 53d
Duff, P. J. & Sons, 201 E 33d
Earl & Cook Co., 150 Nassau
Eccles, John L. Co., 117 Mercer
Evans, Almirail & Co., 281 Water
Finnegan & Walterthum, 140 E 59th
Francis Bros. & Jellett (Inc.), 156 5th av
Gent, John G., 747 Tremont av
Gibbons, Jno. V., 133 Greenwich
Gills & Geoghegan, 537 W B'way
Graff Furnace Co., 208 Water
Greason Mfg. Co., 108 W 99th
Green Fuel Economizer Co., 90 West
Hankin, John & Bro., 550 W 25th
Hassett & Peyton, 100 Malden lane
Hitchings & Co., 1170 B'way
Hodkinson & Co., 537 Manhattan av
Hopkins-Jordan Co., 148 W 24th

Johnson & Co., 104 John
Johnson & Morris, 30 W 13th
Johnston Heating Co., 138 E 31st
Kay, W. H., 244 Fulton
Kelsey Heating Co., 156 5th av
Kirk, L. G. Co., 172 E 75th
Lee Heating Co., 1779 B'way
Leslie Bros., 140 W 42d
Lord & Burnham Co., 1133 B'way
McGonagle, A., Co., 136 Liberty
McKnight, Chauncey P., 31 Hancock pl
Mead, Josiah H., 242 4th av
Merritt, Jas. H., & Co., 48 Cliff
Miller, Henry, 384 E 144th
Mulhern Steam Heating Co., 103 Park av
Muller & Vultee, 9 N Moore
Mutual Engineering & Cons. Co., 548 W 23d
Neal's, John Sons, 161 E 84th
New York Steam Fitting Co., 100 Wash-
ington

Olvaney, William J., 177 Christopher
Paul System Co. of New York, Fuller bldg
Pollock, Alex Co., 203 West
Peterson, N. F., 450 E 149th
Prentice, L. H. Co., 114 Liberty
Raisler Heating Co., 1906 B'way
Ransom, Stephen, 402 West
Roberts, Geo. I. & Bros. (Inc.), 471 4th av
Rutzel, E., Co., 127 White
Saruya Engineering Co., 320 B'way
Sayward, Jno. F., Co., 2295 B'way
Schneider, Chas., 492 E 163d
Seward Engineering Co., 141 Worth
Sinnott, Peter, 967 E 165th
Skannel, Elbert, 3281 B'way
Suter, G. A. & Co., 112 Wooster
THOMAS & SMITH (Inc.), 288
Hudson. (See adv. index, end of book)
Thompson-Starratt Co., 660 1st av
Tivy, Lawrence, 13 Platt
United Engineering & Contracting Co., 32
Victor Heating Co., 2295 B'way E 33d
Walker & Chambers, 50 E 20th
Wallace, Geo. J., 206 E 57th
Wear, John A. & Son, 206 E 29th
Webster, Warren Co., 17 State
Wells & Newton Co., 292 Av. B.
Wing, L. J. Mfg. Co. (Ventilating & Com-
bustion Engineers), 90 West
Yockel, J. Henry, 51 E 90th

Borough of Richmond.

NEW BRIGHTON—Koehler, F. D.
(End of New York City)
SYRACUSE—Bates, Edw. P., 228 W Water
Municipal Heating Co., 205 James
UTICA—Bates, E. P.
Hart & Crouse Co.
WAVERLY—Denslow Heating Co.
YONKERS—Morris, Thos., Jr.

NORTH CAROLINA.

CHARLOTTE—American Machine & Mfg. Co.

NORTH DAKOTA.

CASSELTON—Casselton Hardware Co.
FARGO—Craig Bros.

OHIO.

AKRON—Prudential Heating Co.
CINCINNATI—Crane, M. H. (Est. of), 326 W
Pearl
Geerin Bros. Co., 422 E 8th
German-Russell Co., 222 E 9th
Johnston, W. T. Co., 522 Main
Kearney, John & Co., 328 New
Love & Roth, 1014 Elm
McGowan, Jno. H. Co., 56 Central av
Nichol, Thos. J. & Co., Pearl c Ludlow
Niemes, Henry, 4112 Hamilton av
Peck, Anderson & Peck Co., Court &
Broadway
Peck-Hammond Co., 124 E Pearl
Peck-Williamson Heating & Ventilating Co.,
339 W 5th
Schlemmer, Oliver, Co., 1050 Halbert av
Schultheis, Wm. & Jos. Co., 1533 Freeman
Stewart, S. B., 237 E 3d av
Vance, E. A., Const. Co., 1662 Providence
Webster, Warren & Co., Ingalls bldg
CLEVELAND—American Engineering Specialty
Co., Rose bldg
Bartlett Bros. Co., 8506 Lake av, N W
Becker-Seidel Co., 317 Champlain av, N W
Bowman, E. R., 3211 Lorain
Chaffer Co., 431 Champlain av, N W
Cleveland Steam Fitting & Supply Co., 4318
Hamilton av, N E
Crawford, P. R. & Son, Williamson bldg
Crow-Wynn Heating Co., 4070 E 82d, S E
Cushman, Person W., 7516 Decker av, N E
Holbrook, M. G., The Arcade

Morgan, Richard H., 6916 Wade Park av.
N E
Mouat-Squires Co., 1246 W 4th, N W
Paul Steam System, Hickox bldg
Pittsburg Piping & Equipment Co., Ameri-
can Trust bldg
Price, Dreher & Welker, 1532 Columbus rd
Roemer, Julius, 725 St Clair av, N E
Van Sickle & Warren Co., 717 Frankfort av.
N W

COLUMBUS—Columbus Heating & Ventilating
Co., 425 W Town
TOLEDO—American Warming & Ventilating
Co., 108 Michigan
Bryce Heating & Ventilating Co., The
Spitzer

Burdick, L. F. Co., 2011 Adams
Claffin, Wm. T., 2244 Lawrence av
Hoffman & Harpst Co., 1005 Cherry
Shaw-Kendall Engineering Co., Superior &
Swan creek

Toledo Heating & Const. Co., 149 Michigan
WASHINGTON C. H.—Swope, Geo. B.

OREGON.

PORTLAND—Gardner & Kendall Heating Co.
McPherson, W. G. Co.

PENNSYLVANIA.

BLAIRSVILLE—Tittle, C. L.
BLUE BALL—Shirk, P. E.
CONSHOHOCKEN—Bate, W. T., & Son
EAST STROUDSBURG—Stauffer, George E.
HANOVER—Davidson Heating & Cons. Co.
HARRISBURG—Campbell, B. W., 19 S River av
Harrisburg Steam Heat & Power Co., 128
Horn, Alex. D., 1000 Market Short.
HAZLETON—Hazleton Steam Heating Co.
JOHNSTOWN—Ideal Epworth Acetylene Co.
Johnstown Supply House (Ltd.)
Swank Hardware Co.

LANCASTER—Arnold, John L.
Central Machine Works
Filun & Breneman

PHILADELPHIA—Anderson Heating Co., 112
Bachler, C. F., 53 N 7th Walnut
Baizley, John Iron Works, 514 S Delaware
Barclay, Alex. M., 113 N 6th av
Barnes, Samuel W., & Son, 2104 N 6th
Bowen Heating Co., 24 S 7th
Bowers Bros. & Co. (Heating & Ventilating). Real Estate Trust bldg
Cox & Sons Co., 215 Race
Cunningham, H. E. & Sons, 2134 E Ser-
geant

Francis Bros. & Jellet (Inc.), N Broad &
Gelger, August, 118 N 6th Wallace
Germantown Steam Co., 515 Pelham rd.
Gtn

Haines, Wm. S. & Co. (Steam Only), 136 S
4th

Hill, Malcolm W. Co., 1503 Sansom
Hygiene Heating Co., Mortgage Guarantee
Lampe & Bartels, 115 N Front bldg
Makin-Kelsey Heating & Mfg. Co., 24 S 7th
Mershon Patent Shaking Grate Co., 1203
Murphy, Harry F. & Co., 25 N 7th Filbert
Nichols, E. M., 212 S 7th
Overbrook Steam Heat Co., 2012 N 60th
Phila. Hdw. & Malleable Iron Wks, 9th &
Jefferson

Phila. Steam Heating Co., 1513 Filbert
Quigley, Jas. J. & Son, 1342 Ridge av
Scott, Robt., Engineering & Construction
Co., 1716 Ludlow

Smith, John P., 148 N 7th
Taylor, Frank W. & Son, 259 S 4th
Thompson Bros., 112 Broad
Trachsel, John C. F., 230 Arch
Tubular Heating & Vent'g Co., 232 Quarry
Webster, Warren & Co., Stephen Girard bldg
West, Charles F., 24 N 7th
West End Heating & Engineering Co., 4641
Lancaster av

Wood, James P. Heating Co., 39 S 4th
PITTSBURGH—Allegheny Heating Co., 437 6th
American Warming & Ventilating Co., 541
Wood

Anderson-Darragh Co. (Ltd.), 3206 Penn av
Baker, Smith & Co., Frick bldg
Bartlett, J. C. Co., 805 Liberty av
Belmar Heating Co., 1121 Murland
Briley, C. A., 1003 Forbes
Burns, Fleming & Co., 815 Forbes
Higgins, G. F. Co., Union Bank bldg
Iron City Heating Co., 8th & Penn av
McGinness-Smith Co., 219 1st av
Maginn, P. F. & Co., 1025 Forbes
Meagher Heating Co., 1536 2d av
Mellott Heating Co., 634 Smithfield
Pittsburg Heating Co., 8 Wood
Schaffer, John P., 209 Wood
Sloan Heating Co., 6309 Broad
Walker, James J., Harwood & Merwyn avs

POTTSTOWN—Sotter Bros.
POTTSVILLE—Pottsville Steam Heat & Power
Co. Sparks & Parker.

READING—Keystone Heating Co.
Reading Steam Heat & Power Co.

ST. CLAIR—Quirin, Jno. & Bro.
SCRANTON—Economy Light. Heat & Power
Co.

Gaylord & Butler Co.
Gaylord & Eitapence Co.
Scott Heating Co.

TOWANDA—Humphrey Mfg. Co.
WILKES-BARRE—Backus, Peter B.

WILLIAMSPORT—KEELER, E. CO. (See
adv. index, end of book)

Williamsport Steam Co.
YORK—Mottet, Geo. F., & Sons (Inc.)
York Engineering Co.

RHODE ISLAND.

PROVIDENCE—Allen Fire Dep't Supply Co.
Allen & Reed (Inc.), 172 Dorrance
Cox & Stone, 159 Pine
Fogerty, Wm. J., 26 Peck
General Fire Extinguisher Co., Union Trust
bldg

Haslam, Gordon E., & Co., 147 S Main
Heath, Wm. G. & Co., 60 Friendship
Mackenzie Bros., 18 Snow
Parker & Taft, 143 Eddy
Putnam Foundry & Machine Co., 73 S Main
Sampson, J. A., 10 Summer

SOUTH CAROLINA.

CHARLESTON—Volk & Murdoch Iron Works
SPARTANBURG—Morgan Wood & Iron Wks

SOUTH DAKOTA.

WATERTOWN—Rowe Construction & Heat-
ing Co.

TENNESSEE.

MEMPHIS—Memphis Heating Co.
Harstick Heating Co.
Sodemann Heat & Power Co.
Southern Heating Co., Cotton Exchange
NASHVILLE—Nashville Mach. Co. bldg

VERMONT.

MONTPELIER—Lane Mfg. Co.
RUTLAND—Holmes Iron Co.

VIRGINIA.

RICHMOND—Longworth, W. P. & Co.
Morrison Machinery & Supply Co.
Smith-Courtney Co., 1418 E Cary

WASHINGTON.

SEATTLE—Adams & Moffat Heating Co.
Brown, S. E. & Co., 1527 3d av
Frewen Co.
Pacific Heating Co., New York blk
Tay, Geo. H. Co., Empire bldg
Washington Steam Heating Co., 712 Post
SPOKANE—Inland Heating & Ventilating Co.

WISCONSIN.

MADISON—King & Walker Co.
Mueller Co.
MILWAUKEE—American Fdry. & Furnace
Co. (Hot Air & Steam), 204 Grand av
Anderson & Farris Heating Co., 463 27th
Bayley Heating Co., 131 Sycamore
Beech, J. M. Heating Co., 249 Lake
Bowers, W. A. Heating Co., 482 Market
Downey & Kruse Co., 112 2d
Enterprise Heating Co., 880 Cambridge av
Flaherty, Michael E., 567 E Water
Fox, Chas. J., 616 Grand av
Fritze, Oscar, 1809 Walnut
Goldschmidt, Hugo, 416 State
Groeschel, Jacob H., 1513 Lloyd
Hoye, Thos. E. Heating Co., 54 Biddle
Kaufman-Haas Heating Co., 1117 23d
Lade, Rudolph, 906 Winnebago
Lindeman, A. J. & Hoverson Co., 344 Flor-
ida
Mueller Co., 168 Reed
Netz, Edwin A., 405 3rd
Pfeifer, Mathias, 314 18th
Phipps Heating Co., 90 Onelda
Reich, John, 628 Clark
Reinke & May Heating Co., 1324 Fond du
Lac av
Riemer, Louis A., 411 State
Schier, Joseph, 2816 Galena
Smith, Geo. H. Heating Co., 320 Grand av
Strieble, A. J. & Co., 75 W Water
Strohenke, John & Co., 489 National av
Trels, N., Heating Co., 130 2d
Watson, Jas. C. Co., 270 Jefferson
Wegner Bros., 136 Sycamore
Zuehlke Heating Co., 315 4th

Heating (Green House)

Bates, Edw. P., Syracuse, N. Y.
Burneister, Aug. & Co., Station D, Milwaukee,
Coldwell-Wilcox Co., Newburgh, N. Y. Wis.
Carmody, J. D., Evansville, Ind.
Fish, Hindle, 23 Wash'n, N, Boston, Mass.
Foskett & Bishop Co., New Haven, Conn.
Hitchings & Co., 1170 B'way, New York
Jacobs, S. & Sons, 1365 Flushing av, Brooklyn,
N. Y.

Kay, W. H. Co., 244 Fulton, New York
Kroeschell Bros. Co., 55 Erie, Chicago
Lamb, F. W. Co., 259 Kinzie, Chicago, Ill.
Lord & Burnham Co., 1133 B'way, New York, &
819 Tremont bldg, Boston, Mass.
Payne, John A., 260 Culver av., Jersey City,
N. J.
Phillips Mfg. Co., West Side av, Jersey City,
N. J.
Prentice, L. H. Co., 34 Sherman, Chicago, Ill.
Reynolds, James Co., 33 Mill, Rochester, N. Y.
Scollay, John A. (Est. of), Brooklyn, N. Y.
Simonds Heating & Special Co. (Vacuum Sys-
tem of Steam), Detroit, Mich.
Thomson, Robert & Co., 6200 Prescott, St.
Louis, Mo.

Heating (Paul System of Steam)

Automatic Heating Co., Fisher bldg, Chicago,
Ill.
Paul System Co., 73 Tremont, Boston, Mass.,
& 949 B'way, New York

Heating (Vacuum)

Consolidated Engineering Co. ("Van Auken"
System), Jackson c Canal, Chicago, Ill.
Giant Vacuum Heat & Power Co. ("Little
Giant" Vacuum for Heating, Cleaning &
Hot Water), Oakland, Cal.
Kellogg-Mackay Co. (Vapor System "K. M.
C." Morgan Patents), 19 W 18th, Chicago,
Ill.

McGonagle Co., 136 Liberty, New York
Monash-Younger Co. ("Monash" Radifier
Valve Without Royalty), 203 S Canal, Chi-
cago, Ill.

Norwall Mfg. Co. ("Norwall"), 154 Lake, Chi-
cago, Ill.
Ryan, E. J., Danville, Ill.
Schott Engineering Co. ("Schott" Steam &
Hot Water Systems), 125 Monroe, Chicago,
Ill.

Simonds Heating & Specialty Co. ("Simonds"
Simple & Compound Vacuum Steam Heat-
ing System), Detroit, Mich.
Vacuum Heating Co. ("Trane"), Heed bldg.,
Phila., Pa.

WYCKOFF & LLOYD CO. (Contract-
ors), 19 Worthington, Springfield, Mass.
(See adv. index, end of book)

Heating (Vapor System)

Vapor Steam Heating Co., North American
bldg, Philadelphia, Pa.

Heating & Ventilating Engineers (Consulting)

Adams, Henry, Calvert bldg, Baltimore, Md.
Allen, Albert M. Schofield bldg, Cleveland, O.
Bailey, Fred W. C., Wyandotte bldg, Colum-
bus, O.
Baldwin Engineering Co., 209 W 33d, New York
Barrus, Geo. H., Pemberton bldg, Boston, Mass.
Barwick, Thos. Engineering Co., 21 Park Row,
New York

Blood & Hale, 10 P. O. sq., Boston, Mass.
Bryan, Wm. H., Lincoln Trust bldg, St. Louis,
Mo.

Campbell, Chas. A., Herald bldg, Watertown,
N. Y.
Clarkson, Robt. C., Stephen Girard bldg, Phila-
delphia, Pa.

Clark & MacMullen, Inc., 20 Broad, New York
Darrach, Chas. G., Land Title bldg, Phila., Pa.
Edwards, L. T., 1530 Chestnut, Phila., Pa.
Furber, Wm. C., 418 Walnut, Phila., Pa.
Haines, W. S. & Co. (Steam Heating), 136 S
4th, Phila., Pa.

Harman, Jacob A., Dime Saving Bk., Peoria, Ill.
Hill, Quick & Allen, Equitable bldg, Baltimore,
Md.

HOWARD & MORSE (Ventilation
Only), 45 Fulton, New York. (See adv.
facing first page of Index of Contents)

Kemm, J. Geo., Jr., City Trust bldg, Phila., Pa.
Mackay, W. M., 113 Beekman, New York
Monday, Chas. E. & Co., 1320 Olive, Phila., Pa.
Municipal Engineering & Contracting Co., 90
West, New York

Fenna. Engineering Co., 1119 N Howard, Phila., Pa.
 Pierce, Richardson & Neller, Manhattan bldg, Chicago, Ill.
 Roberts & Abbott Co. (Inc.), Schofield bldg, Cleveland, O.
 Sayward, Jno. F. & Co., 21 W 24th, N. Y.
 Serrell & Schenck, 17 State, New York
 Stebbings, W. L., Monadnock blk., Chicago, Ill.
 Steenson, R. J. & Co., 912 Federal, Allegheny, Pa.
 Sutton, Frank, 91 Wall, New York
 Thompson-Starrett Co., 660 1st av, New York
 Van Winkle, Franklin, 39 Cortlandt, N. Y.
 Wing, L. J. Mfg. Co. (Also Contracting), 90 West, New York
 Wolcott Henry A., 49 Pearl, Hartford, Conn.
 Woodbridge, S. Homer, 420 Boylston, Boston, Mass.

Heating & Ventilating Engineers (Contracting)

(See Heating Contractors, Steam & Hot Water)

Helmets (Ammonia)

National Helmet Co., 39 Park pl. New York

Helmets (Sand Blasting)

American Diamond Blast Co., 50 Church, New York
 Tilghman-Brooksbank Sand Blast Co., 1126 S 11th, Philadelphia, Pa.

*Hemp (Braided, Italian & Linen)

TUCKER & CARTER ROPE CO., 76
 South & 167 Maiden la, New York. (See adv. index, end of book)

*High Speed Bulldozers

AJAX MFG. CO., 3830 Lakeside, N E.
 Cleveland, O. (See adv. index, end of book)

Hinge Mfrs.

(Under this Heading see Sub-classifications)

Aetna Nut Co., Southington, Conn.
 American Foundry & Mfg. Co., St. Louis, Mo.
 American Ring Co., Waterbury, Conn.
 Arcade Mfg. Co. (Ornamental Brass), Freeport, Ill.
 Ashtabula Mfg. Co., Ashtabula, O.
 Barrows Lock Co., Lockport, Ill.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Buckley-Hart Mfg. Co., 541 Franklin, Detroit, Mich.
 Chicago Hardware Co., North Chicago, Ill.
 Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.
 Clark Mfg. Co., 260 Chandler, Buffalo, N. Y.
 Cleveland Lock Co. ("Hercules" Spring), 1297 E 38th, N E, Cleveland, O.
 Coleman Hardware Co. (Spring), 168 Michigan av, Chicago, Ill.
 Columbian Hardware Co., Cleveland, O., & 168 Church, New York
 Corbin, P. & F., New Britain, Conn.
 Cowles, C. & Co. (Inc.), (Malleable & Brass) New Haven, Conn.
 Delaware Marine Supply Mfg. Co., Wilmington, Del.
 Detroit Shipbuilding Co. (Brass Department), Detroit, Mich.
 Devlin, Thos. & Co., 3d & Lehigh av, Phila., Pa.
 Eagle Lock Co. (Brass), Terryville, Conn., & 105 Chambers, New York
 Edwardsville Brass Co. (Brass), Edwardsville, Ill.
 Foss, Benj. F. ("Foss" Adjustable Ball Bearing), Fairfield, Me.
 Grey Iron Foundry Co. (Spring & L. & B.), Reading, Pa.
 Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.
 Hale & Benjamin, Greenfield, Mass.
 Hassall, John (Fancy Box Hinges, Catches, etc.), 171 Lafayette, New York
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Hildenbrandt Automatic Hinge Co., 125 Longworth, Cincinnati, O.
 Kohler, F. E. & Co., Canton, O.
 Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

Lawson Mfg. Co. ("Matchless" Double Acting Floor Spring & Pivot Hinge without Spring), 40 Dearborn, Chicago, & Racine, Wis.
 Lockwood Mfg. Co., South Norwalk, Conn.
 McKinney Mfg. Co. (Steel Butts, Strap & T.), Locust & Market, Allegheny, Pa.
 Niles Mfg. Co. ("Double Acting" Spring), 16 N Canal, Chicago, Ill.
 New England Lock & Hinge Co. (Brass Finish & Tiu), Winchendon, Mass.
 Norwalk Lock Co., S Norwalk, Conn.
 Parker, Chas. O., Meriden, Conn.
 Payson Mfg. Co., 1319 W Jackson boul, Chicago, Ill.

Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Plume & Atwood Mfg. Co., 29 Murray, New York
 Pullman Mfg. Co., Rochester, N. Y.
 Reading Hardware Co., Rochester, N. Y.
 Richards Mfg. Co. (Heavy), Aurora, Ill.
 Root, C. J. (Wrought Brass), Bristol, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Safford & Co., Arlington, Mass.
 Sargent & Co., New Haven, Conn., & 94 Centre, New York
 Schroder, J. B., & Co., 132 E 5th, Cincinnati, Ohio

Scovill Mfg. Co. (Brass), Waterbury, Conn.
 Shannon, J. B. & Sons, 816 Chestnut, Phila., Pa.
 Shelby Spring Hinge Co. (Double Acting Floor), Shelby, O.

Standard Mfg. Co. ("Champion"), Shelby, O.
STANLEY WORKS, New Britain, Conn. (See adv. index & branch offices, end of book)

Stearns, E. C. & Co., Syracuse, N. Y.
 Stover Mfg. Co., Freeport, Ill.
 Taylor & Boggis Foundry Co., Cleveland, O.
 Tiebout, W. & J. (Cast Brass), 118 Chambers, New York

Union Mfg. Co., New Britain, Conn., & 103 Chambers, New York
 Van Wagoner Co. (Ball Bearing), Lima, O.

Whipple, R. P. & Co., 275 Main, Springfield, Mass.

Wilcox, Crittenden & Co. (Galvanized), Middletown, Conn.

Wise, J. B. (Sewing Machine, Closet & Organ), Watertown, N. Y.

Woodruff, W. W. & Sons Co. (Carriage Door etc.), Mount Carmel, Conn.

Wrightsville Hardware Co. (Shutter, Blind & Gate), Wrightsville, Pa.

Yale & Towne Mfg. Co., 9 Murray, New York.

Hinges (Awning)

CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end of book)

Wilcox, Crittenden & Co., Middletown, Conn.

*Hinges (Ball-Bearing, Steel Butt)

STANLEY WORKS, New Britain, Conn. (See adv. index & branch offices, end of book)

Hinges (Blind & Shutter)

American Foundry & Mfg. Co., St. Louis, Mo.
 Austin & Eddy, 117 Broad, Boston, Mass.

Clark Mfg. Co. ("Dixie"), 260 Chandler, Buffalo, N. Y.

Enterprise Foundry Co., Rochester, N. Y.

Hale & Benjamin, Greenfield, Mass.

Hanover Hinge Co. ("Hoke"), Hanover, Pa.

Hawkins Car Oiler & Specialty Mfg. Co. ("Hawkins"), Lowell, Mass.

Jaycox Mfg. Co. ("Jaycox," Self-Closing), Fishkill Landing, N. Y.

National Supply Co. ("Lull," "Porter" & "Clark" Pattern), 7 W Lombard, Baltimore, Md.

Orr, Galen & Co., Needham, Mass.

Parker, Chas. Co., Meriden, Conn.

Parker Wire Goods Co. ("Hale" & "Benjamin" Automatic Blind), Worcester, Mass.

Penn Hardware Co., Reading, Pa.

Peters, Jas. & Son (Wrought Iron Shutter), 1934 N Front, Phila., Pa.

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Sargent & Co., New Haven, Conn., & 94 Centre, New York

STANLEY WORKS (Wrought Steel),
 New Britain, Conn. (See adv. index & branch offices, end of book)

Stover Mfg. Co., Freeport, Ill.

Susquehanna Casting Co., Wrightsville, Pa.
 Whipple, R. P. & Co. (Automatic), 275 Main, Springfield, Mass.
 Wrightsville Hardware Co. ("Stengers," "Shepard's," "Niagara," "Clark's," "Buffalo," "Champion," "Steamboat," "Pioneer," "Empire" & Mortise Gravity-Locking Blind Hinges & "O. S.," "Acme" & "Queen City" Shutter Hinges), Wrightsville, Pa.

*Hinges (Box)

ACME STEEL GOODS CO. ("Acme" Box
 Hinges & Locks), 2834 Archer av., Chicago, Ill.; 147 Lafayette, New York, & Empire bldg, Atlanta, Ga. (See adv. index, end of book)

CARY MFG. CO. (Crate, Box, etc.), 19
 Roosevelt, New York. (See adv. index, end of book)

STANLEY WORKS ("Atwood,"
 Wrought Steel Hinges & Fast), New Britain, Conn. (See adv. index & branch offices, end of book)

Hinges (Butt)

Barrows Lock Co., Lockport, Ill.

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Bronson, Homer Co. (Wrought Brass), Beacon Falls, Conn.

Chicago Hardware Co., North Chicago, Ill.

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Clark Mfg. Co. (Cast Door), 260 Chandler, Buffalo, N. Y.

Corbin, P. & F., New Britain, Conn.

Detroit Shipbuilding Co. (Brass Department), Detroit, Mich.

Griffin Mfg. Co. (Steel), Erie, Pa.

Lockwood Mfg. Co., South Norwalk, Conn.

McKinney Mfg. Co. (Wrought Steel), Allegheny, Pa.

National Mfg. Co. ("National"), Sterling, Ill.

Norwalk Lock Co., South Norwalk, Conn.

Peck, Stow & Wilcox Co., Southington, Conn.

Penn Hardware Co. (Bronze Cast), Reading, Pa.

Plume & Atwood Mfg. Co., Waterbury, Conn.

Reading Hardware Co., Reading, Pa.

Root, C. J. (Wrought Brass), Bristol, Conn.

Russell & Erwin Mfg. Co. (Brass, Bronze, etc.), New Britain, Conn., & 96 Lafayette, New York

Sargent & Co., New Haven, Conn., & 94 Centre, New York

Schroder, J. B., & Co. (Brass, etc.), 132 E 5th, Cincinnati, O.

Scovill Mfg. Co. (Brass), Waterbury, Conn.

Stover Mfg. Co., Freeport, Ill.

Waterbury Brass Goods Corporation (Brass), Waterbury, Conn.

Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.

Yale & Towne Mfg. Co. (Brass & Bronze), 9 Murray, New York

Hinges (Cellar Door)

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.

Hinges (Cigar Box)

Grammes, L. F. & Sons, Allentown, Pa.
 Schoenhut, A. Co., 2215 Adams, Phila., Pa.

Hinges (Circular Door & Window)

Hoeg, R. C. & Co., 11th & Catharine, Philadelphia, Pa.

Hinges (Closet Door)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Edwardsville Brass Co. (Double Acting Spring), Edwardsville, Ill.

Niles Mfg. Co. (Double Acting), 153 S Jefferson, Chicago, Ill.

THE STANLEY WORKS

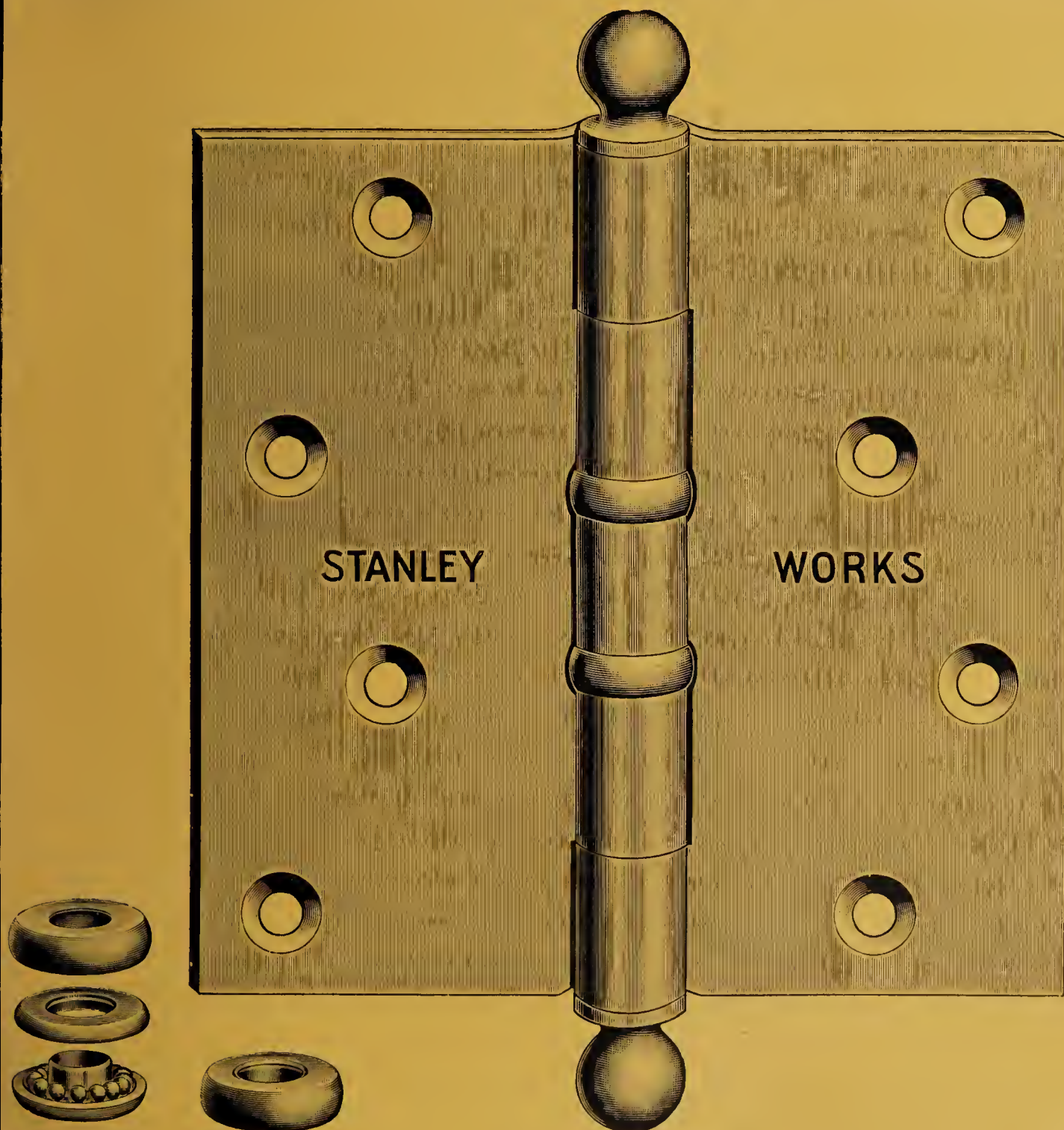
NEW BRITAIN, CONN.

79 Chambers St., New York and 15 Lake St., Chicago, Ill.

MAKERS OF

WROUGHT STEEL BUTTS, DOOR BOLTS, HINGES, ETC.

ALSO COLD ROLLED STRIP STEEL FOR ALL PURPOSES



BALL BEARING Butts in Wrought Bronze and Steel. The Ideal Butt for Heavy Doors.
No friction in the joint, consequently no wear. No oil or grease to disfigure finishes and gather dust.
The washer is so constructed that it will not come apart. No creaking of door. Low Cost.

CORRESPONDENCE FROM ARCHITECTS SOLICITED.

BOMMER

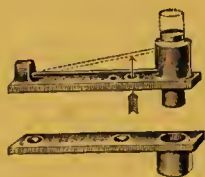
SPRING HINGES

ARE QUALITY GOODS

But Cost No More than the Substitutes

Gold Medals

St. Louis, 1904.
Buffalo, 1901. Omaha, 1898.
Paris, 1900. Liège, 1905.



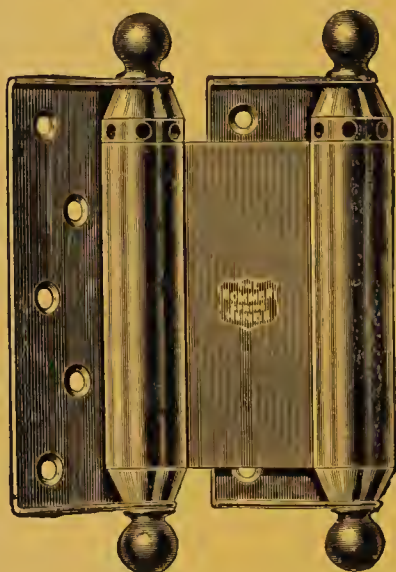
Trade Mark



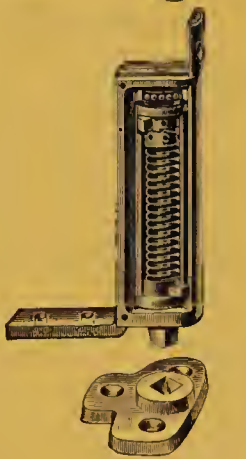
Reg. U. S. Pat. Off.

Our Trade Mark

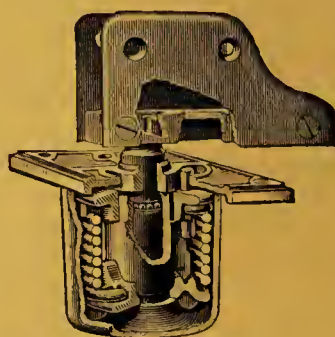
on a Spring Hinge
means the best that can be
made.



Double Action Spring Butt Hinge.



Surface
Floor Spring Hinge
For Fastening to
Surface of Floor



Mortise Floor Spring Hinge
For Mortising Into Floor.



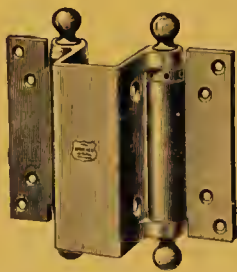
Single Action Spring Butt Hinge

Bommer Spring Hinges last as long as the door. They are made of heavier metal than others. The springs never go lame, being made of tempered steel wire in our own factory. The bearings are solid steel. Every pair of Bommer Spring Hinges are guaranteed to give satisfaction.

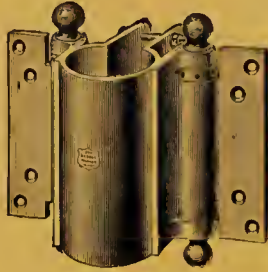
BOMMER LAVATORY SPRING HINGES



No. 1000
Single Action



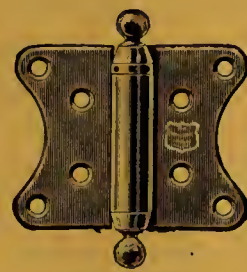
No. 1015
Yoke Hinge



No. 1017
Standard Pipe Hinge



No. 1005
Double Action



No. 1011
Surface Hinge

Your Hardware Merchant Can Supply Them.

Manufactured by

BOMMER BROTHERS, - Brooklyn, N. Y.

Established 1876

CATALOG MAILED ON REQUEST

Hinges (Closet Seat)

Brass Goods Mfg. Co., Nevin & Union, Brooklyn, N. Y.
Chicago Spring Butt Co. (Spring, 54 Union Park pl., Chicago, Ill.)
Crescent Mfg. Co., Connellsville, Pa.
Edwardsville Brass Co., Edwardsville, Ill.
Ireland & Matthews Mfg. Co., Detroit, Mich.
Ohio Pump & Brass Co., Columbus, O.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Pickering, R. S., Sharon Hill, Pa.
Reading Hardware Co., Reading, Pa.
Springfield Brass Co. (Brass & Nickel), Springfield, O.
STANLEY WORKS, New Britain, Conn. (See adv. index & branch offices, end of book)
Waterbury Mfg. Co. (Brass), Waterbury, Conn.
Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wise, J. B., Watertown, N. Y.

Hinges (Continuous)

Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Waterbury Brass Goods Corporation, Waterbury, Conn.

Hinges (Double-Acting Spring)**BOMMER SPRING HINGES**

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Niles Mfg. Co., 153 S Jefferson, Chicago, Ill.
Stover Mfg. Co. ("New Idea"), Freeport, Ill.
Van Wagoner Co. (Ball Bearings), Lima, O.
Western Brass Mfg. Works (Cast Brass, Nickel Plated, etc.), 21st & Rockwell, Chicago, Ill.

Hinges (Engine House)**BOMMER SPRING HINGES**

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.

Hinges (Factory Door)

Dayton Malleable Iron Co. (Malleable Iron), Dayton, O.
WISCONSIN IRON & WIRE WORKS, 190 E. Water, Milwaukee, Wis. (See adv. index, end of book)

Hinges (Fancy Box)

Hassall, John (Also Catches & Trimmings), 171 Lafayette, New York

Hinges (Fire Shutter)

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.

***Hinges (Flask)**

STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)

Hinges (Floor)**BOMMER SPRING HINGES**

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co. (Double Acting), 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co. ("Columbian"), Cleveland, O.
Lawson Mfg. Co. ("Matchless" Double Acting Ball Bearing Spring, etc.), 40 Dearborn, Chicago, Ill., & Racine, Wis.
Shelby Spring Hinge Co. ("Shelby," "Chief" Double Acting Spring, Ball Bearing, etc.), Shelby, O.

Hinges (Gate)

American Foundry & Mfg. Co., St. Louis, Mo.
Clark Mfg. Co., 260 Chandler, Buffalo, N. Y.
Griffin Mfg. Co. (End Gate), Erie, Pa.
Hardware & Woodenware Mfg. Co. (Self-Closing), 693 B'way, New York

Hazel Atlas Glass Co., Wheeling, W. Va.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Parker, Chas. O., Meriden, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Peters, Jas. & Son (Wrought Iron), 1934 N Reading Hdwe. Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Sargent & Co., New Haven, Conn., & 94 Centre, New York
Susquehanna Casting Co., Wrightsville, Pa.
Wilcox Mfg. Co. (Double Acting, Steel, etc.), Aurora, Ill.
Wrightsville Hardware Co. ("Shepherd's" or "Clark's" Reversible & Self-Closing Hinges & Latches), Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

***Hinges (Green House Sash)**

Carmody, J. D. (Indestructible), Evansville, Ind.

Hinges (Invisible)

Columbian Hardware Co. ("Columbian"), Cleveland, O.
Soss Invisible Hinge Co. ("Soss"), 797 Greenwich, New York

Hinges (Mirror)

Independent Steel & Wire Co., Pittsburg, Pa.

Hinges (Office Gate)**BOMMER SPRING HINGES**

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co. ("Gem" & "Oxford"), Cleveland, O., & 168 Church, New York
Griffin Mfg. Co., Erie, Pa.

Hinges (Piano & Organ)

Bronson, Homer D. Co. (Brass), Beacon Falls, Conn.
Scovill Mfg. Co., Waterbury, Conn.
Wise, J. B., Watertown, N. Y.

Hinges (Plate)

Hager, C. & Sons Hinge Mfg. Co., 242 De Kalb, St. Louis, Mo.
Peters, Jas. & Son (Wrought Iron), 1934 N Front, Phila., Pa.

Hinges (Refrigerator)

Brass Goods Mfg. Co., Nevin cor. Union, Brooklyn, N. Y.
Griffin Mfg. Co., Erie, Pa.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
STANLEY WORKS (Wrought Brass, Plain & Corrugated & Wrought Steel Ball Bearing), New Britain, Conn. (See adv. index & branch offices, end of book)
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wilcox, Crittenden & Co., Middletown, Conn.

Hinges (Screen Door)

Arcade Mfg. Co. ("A-O" & "Arcade"), Freeport, Ill.

BOMMER SPRING HINGES

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co. ("Columbian," "Cloverleaf," "Columbia" & "Acorn"), Cleveland, O., & 168 Church, New York
Hoffman Hinge & Foundry Co., Hubbard, Porter & Burlington Sts., Cleveland, O.
Kees, F. D. Mfg. Co. ("Gossett," for Window Screens), Beatrice, Neb.
Prouty, T. C. Co. Ltd., Albion, Mich.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Schatt & Morgan Cutlery Co., Titusville, Pa.
Shelby Spring Hinge Co. ("Buckeye" & "O-Hi-O," Detachable), Shelby, O.
Stover Mfg. Co., Freeport, Ill.
Van Wagoner Co., Lima, Ohio.

Hinges (Screw Hook & Eye)

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.

Hinges (Sewing Machine)

Wise, J. B., Watertown, N. Y.

Hinges (Showcase)

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
VOELKNER & HARRY MANUFACTURING Co. (With or Without Spring), 125 Woodbridge, W., Detroit, Mich. (See adv. index, end of book)

Hinges (Shutter)

(See Hinges, Blind & Shutter)

Hinges (Spring, Bank & Office Railing)**BOMMER SPRING HINGES**

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Orr & Lockett Hardware Co., 50 State, Chicago, Ill.

Hinges (Spring Butt)**BOMMER SPRING HINGES**

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co. ("American," "Gem," "Oxford" & "Columbian"), Cleveland, O., & 168 Church, New York
Van Wagoner Co. (Ball Bearing, Wrought Steel), Lima, O.

Hinges (Spring Door)

Arcade Mfg. Co. ("Arcade"), Freeport, Ill.
Bardsley, Joseph, 149 Baxter, N. Y.

BOMMER SPRING HINGES

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Cleveland Lock Co., 1297 E 38th, N E, Cleveland, O.
Columbian Hardware Co. ("American," "Gem," "Oxford" & "Columbian"), Cleveland, O., & 168 Church, New York
Joliet Spring Hinge Co., Joliet, Ill.
Payson Mfg. Co., 1319 W Jackson boul., Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Scovill Mfg. Co. (Brass), Waterbury, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Stover Mfg. Co. ("Ideal"), Freeport, Ill.
Van Wagoner Co. (Ball Bearing), Lima, O.

Hinges (Spring, for Hardwood Doors)

(See Hinges, Spring Butt)

Hinges (Spring, for Interior Marble Work)*BOMMER SPRING HINGES**

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)

Hinges (Spring, Iron Railing)**BOMMER SPRING HINGES**

257 to 271 Classon av., Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co., Cleveland, O., & 168 Church, New York

Hinges (Spring Lavatory)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.

Hinges (Spring, Marble Work)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co. ("Amerleau," "Gem," "Oxford" & "Columbian"), Cleveland, O., & 168 Church, New York

*Hinges (Spring, Palace Railway Car)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)

Hinges (Spring, Safe Makers')

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co., Cleveland, O., & 168 Church, New York

Hinges (Spring Wrought Brass & Bronze Door)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co., Cleveland, O., & 168 Church, New York

Hinges (Spring, Wrought Steel)

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Spring Butt Co., 54 Union Park pl., Chicago, Ill.
Columbian Hardware Co., Cleveland, O., & 168 Church, New York
Griffin Mfg. Co., Erie, Pa.

Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.
Hazel Atlas Glass Co., Wheeling, W. Va.
Lawrence Bros., Sterling, Ill.
McKinney Mfg. Co., Allegheny, Pa.
Reading Hardware Co., Reading, Pa.
Van Wagoner Co. (Ball Bearing), Lima, O.

Hinges (Storm Window)

Kees, F. D. Mfg. Co., Beatrice, Neb.

Hinges (Strap & T)

ACME STEEL GOODS CO. ("Acme" Wrought Steel), 2834 Archer av, Chicago, Ill.; 147 Lafayette, New York, & Empire bldg, Atlanta, Ga. (See adv. index, end of book)

Aetna Nut Co., Southington, Conn.
Griffin Mfg. Co. (Pressed Steel), Erie, Pa.
Hager, C. & Sons Hinge Mfg. Co., 2427 De Kalb, St. Louis, Mo.
Hazel Atlas Glass Co., Wheeling, W. Va.
Kohler, F. E. & Co., Canton, O.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Lawrence Bros. (Steel), Sterling, Ill.
McKinney Mfg. Co. (Wrought Steel), Allegheny, Pa.

Maryland Hinge Co., Baltimore, Md.
Oliver Iron & Steel Co. (Screw & Strap Hinges), Pittsburg, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
STANLEY WORKS (Wrought Steel, Plain & Corrugated), New Britain, Conn., & 79 Chambers, New York. (See adv. index & branch offices, end of book)

Wilcox, Crittenden & Co., Middletown, Conn.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)
Zimmerman, Harry, & Co. ("Zimmerman's Anti-Sag" Strap), Fremont, O.

*Hinges (Trunk)

STANLEY WORKS (Wrought), New Britain, Conn. (See adv. index & branch offices, end of book)

*Hinges (Wash Tray)

STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)

Hinges (Wire)

ACME STEEL GOODS CO. ("Acme"), 2834 Archer av, Chicago, Ill.; 147 Lafayette, New York, & Empire bldg, Atlanta, Ga. (See adv. index, end of book)
Pickering, R. S. (Box), Sharon Hill, Pa.
Reading Hardware Co., Reading, Pa.
Smith, F. P. & Co. (Wire Box), Sharon Hill, Pa.
Springfield Brass Co. (Brass & Nickel Plate), Springfield, Mass.

*Hinges (Wrought Brass Corrugated)

STANLEY WORKS, New Britain, Conn. (See adv. index & branch offices, end of book)

Hinges (Wrought Steel Butt)

(See Hinges, Spring, Wrought Steel)

Hitchings (Mine Car)

Harris, Wm. & Son, Allegheny, Pa.
Irwin Foundry & Mine Car Co., Irwin, Pa.
MACOMBER & WHYTE ROPE CO. ("Monarch"), 266 S Clinton, Chicago, Ill. (See adv. index & branch offices, end of book)
Niles Mine & Mill Supply Co. (Clevis & Hook), Cleveland, O., & Niles, O.
Phillips Mine & Mill Supply Co., Pittsburg, Pa.
Standard Chalm Co., Pittsburg, Pa.
Stine, S. B., Osceola Mills, Pa.
Treadwell, M. H. Co., 90 West, New York; Works: Lebanon, Pa.

Hitchings (Screw)

Oliver Iron & Steel Co., Pittsburg, Pa.

Hobs (Bolt Cutter)

Card, S. W. Mfg. Co., Mansfield, Mass.
Ellison Bros., Frankford, Philadelphia, Pa.
HELWIG MFG. CO., National German-American Bank bldg, St. Paul, Minn. (See adv. index, end of book)
Putnam Machine Co., Fitchburg, Mass.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Hobs (Die)

Brubaker, W. L. & Bros. (Solid), Millersburg, Pa.
Carpenter, J. M., Tap & Die Co. (Solid, Open Sellers), Pawtucket, R. I.
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Hobs (Worm)

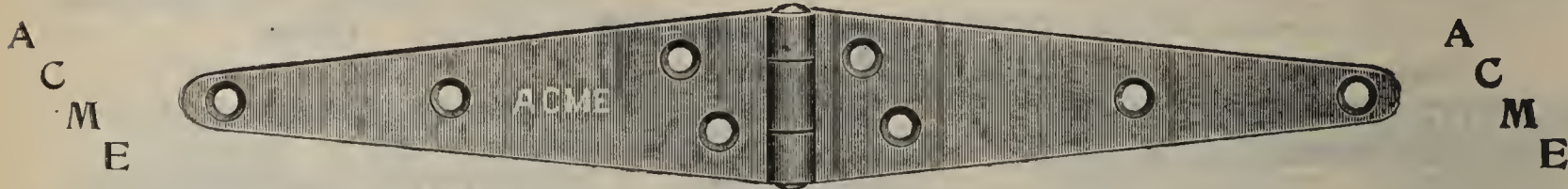
Becker Milling Machine Co., Hyde Park, Mass.
174 Fulton, New York
Brown & Sharpe Mfg. Co., Providence, R. I.
Gould & Eberhardt, Newark, N. J.
Niles-Bement-Pond Co., 111 B'way, New York
Union Twist Drill Co., Athol, Mass.

Hod Hoisting Machines

(See Elevators, Hod)

Hods (Coal)

Buffalo Mfg. Co., Buffalo, N. Y.
Central Stamping Co. ("Columbia," "Central"), 174 Fulton, New York
Dover Stamping & Mfg. Co., Cambridge, Mass.
Geuder & Paeschke & Frey Co., Milwaukee, Wis.
Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
New England Enameling Co. (Galvanized Iron), Middletown, Conn.
Pfeifer, Jno. & Co., 224 Race, Philadelphia, Pa.
Victor Stamping Co. ("Victor" Galvanized & Japanned), Twilight, Ohio
Wheeling Corrugating Co., Wheeling, W. Va.



A full line of WROUGHT STRAP and T. HINGES; HASPS and STAPLES---plain and double hook. Box, Chest and End Gate Hinges. Box Locks and Fixtures.

MANUFACTURED BY

ACME STEEL GOODS CO. 2834 Archer Avenue, CHICAGO
147 Lafayette Street, NEW YORK CITY
Empire Building, ATLANTA, GA.
Cable Address, A. F. C. Co., Western Union.

Hods (Mortar & Brick)

Anderson, W. H. Tool & Supply Co., 14 Ma-
comb, Detroit, Mich.
Cleveland Wire Spring Co. ("Hercules" Steel),
Cleveland, O.
Honhorst, Joseph Co. (Steel), Cincinnati, O.
Johnson & Halvey, 641 Water, New York
Lansing Wheelbarrow Co., Lansing, Mich.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Hoe Mfrs.

American Axe & Tool Co. (Grub), Glassport,
Pa., & 253 B'way, New York
American Fork & Hoe Co. (Boys, Field, Gar-
den, Mortar Mixer, Ladies' Cultivator,
Planters, Onion Weeders, Turnip Weeding,
etc.), Cleveland, O.
Bradley's, G. W. Sons (Inc.) (Cranberry, Shuf-
fle, Garden Seed & Grub), Westport, Conn.
Brown, Hlman & Huntington Co. (Garden,
Mortar, Planters, etc.), Memphis, Tenn.
Chantrell Tool Co. (Garden Hoes), Reading,
Pa., & 103 Reade, New York
Collins Co., Collinsville, Conn., & 212 Water,
New York
Cronk & Carrier Mfg. Co. (Weeding & Gar-
den), Elmira, N. Y.
Derby & Ball, Bellows Falls, Vt.
Harriman Hoe & Tool Co. ("Razor Edge,"
Mortar, Planters, Cotton, Field or Garden
"Champion," Weeding, etc.), Harriman,
Tenn.
Holst Co., 200 S William, New York
Hussey-Binns Shovel Co. (Crucible Cast Steel
Scuffle), Pittsburg, Pa.
Hussey Plow Co., No. Berwick, Me.
Iowa Farming Tool Co., Fort Madison, Iowa
Iron City Tool Works (Grub, Palmetto, etc.),
32d & Smallman, Pittsburg, Pa.
Jelliff, C. O. Mfg. Corp. (Onion), Southport,
Conn.
Klein-Logan Co. (Grub, Palmetto, etc.), S 13th,
Breed, Pittsburg, Pa.
Kohler, F. E. & Co. (Garden or Field), Can-
ton, O.
Mack & Co. (Grub, Grape, etc.), Rochester,
N. Y.
Maynard, C. A. (Planters), Northampton, Mass.
North Wayne Tool Co. (The C. C. Brooks), Hol-
lowell, Me.
Owensboro Shovel & Tool Co. (Goose Neck
Cotton, Planter, Garden, Southern Meadow,
etc.), Owensboro, Ky.
Piggott Mfg. Co., Detroit, Mich.
Pittsburg Tool & Drop Forge Co. (Grub), Ches-
wick, Pa.
Plumb, Fayette R. Frankford, Phila., Pa.
Rock River Mfg. Co. "Self-Cleaning," Dixon,
Ill.
Sandusky Tool Co. (Planters, Grub, Grape, To-
bacco, Rice, Cane, Cotton, Street Cleaning,
etc.), Sandusky, O.
Scovill, D. & H. ("Scovill" Hoes), Higganum,
Conn.
Smlth, Jno. C., 510 Parrett, Evansville, Ind.
Union Fork & Hoe Co. (Field, Cotton, Gar-
den, Mortar Mixing, Planters, Chopper,
Sugar Cane & Shuffle), Columbus, O.
Union Furnace Mfg. Co. (Malleable iron), Union
Furnace, Pa.
Warwood Tool Co. (Grub & Hazel), Wheeling,
W. Va.

Hoes (Accomac)

Oliver Iron & Steel Co., Pittsburg, Pa.

Hoes (Grub)

American Axe & Tool Co., Glassport, Pa.
Bateman Mfg. Co., Grenloch, N. J.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Iron City Tool Works, Pittsburg, Pa.
Klein, Logan Co., Pittsburg, Pa.
Mack & Co., Rochester, N. Y.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Philadel-
Sandusky Tool Co., Sandusky, O. phia, Pa.
Warwood Tool Co. (Also Hazel, Vineyard, etc.),
Wheeling, W. Va.

Hoes (Horse)

Adams, G. & Son, Rome, N. Y.
Allen, S. L. & Co., 1107 Market, Phila., Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Bateman Mfg. Co., Grenloch, N. J.
Belcher & Taylor Agricultural Tool Co., Chi-
copee Falls, Mass.
Bement's, El. Sons, Lansing, Mich.
Benecia Agricultural Works, Benecia, Cal.
Bradley, David Mfg. Co., Bradley, Ill.
Farquhar, A. B. Co., York, Pa.
Hussey Plow Co. (Potato), No. Berwick, Me.
International Harvester Co. of America (& Cul-
tivators), Chicago, Ill.

Hoes (Onion)

Jelliff, C. D., Mfg. Corporation, Southport,
Conn.

Hoes (Wheel)

Allen, S. L. & Co., 1107 Market, Philadelphia,
Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Bacon Mfg. Co., Pontiac, Mich.
Bateman Mfg. Co., Grenloch, N. J.
Fuller Mfg. Co., Danvers, Mass.
Fuller & Johnson Mfg. Co., Racine, Wls.
Hussey Plow Co., North Berwick, Me.
Jelliff, C. O. Mfg. Corporation, Southport,
Conn.
Moline Plow Co., Moline, Ill.
Piggott Mfg. Co., 9 Woodward av, Detroit,
Mich.

Hogsheads

Armer, J. T. & Sons, Augusta, Ky.
BALTIMORE COOPERAGE CO., THE
(For Wine Mfrs.), c Hanover & Creek, Bal-
timore, Md. (See adv. index, end of book)
Columbus Barrel Mfg. Co., Columbus, Ga.
Downing Co., Columbus, Ga.
Elk River Stave Company, Charleston, W. Va.
Fridman Lumber Co., N. Richmond, O.
Kansas City Cooperage Co., Kansas City, Mo.
Mayfield Planing Mills, Mayfield, Ky.
Newark Cooperage Works, 39 Alyea, Newark,
N. J.
Portland Cooperage Co., Portland Me.
Ryan, John, Hoboken, N. J.
Turner, L. B., Oxford, N. C.
Williams S. C. & Co. East Liverpool, O.

Hoisting Engines

(See Engines, Hoisting)

Hoists (Air Motor)

(See Pneumatic Hoists)

Hoists (Ammunition)

Yale & Towne Mfg. Co. (Triplex Trolley
Blocks), 9 Murray, New York

Hoists (Ash)

Bethlehem Foundry & Machine Co. ("Excel-
sior" for Apartment Houses, etc.), South
Bethlehem, Pa.

DETROIT HOIST & MACHINE CO.,
Detroit, Mich. (See adv. index, end of
book)

NEW JERSEY FOUNDRY & MACHINE
Co., 90 West, New York

NORTHERN ENGINEERING WORKS
(For Power Plants), 9 Chene, Detroit, Mich.
(See adv. index & branch offices, end of book)

Q. M. S. Co., Plainfield, N. J.
SPEIDEL, JOHN G. (Cellar), Reading, Pa.
(See adv. index, end of book)

STORM MFG. CO., Newark, N. J. (See
adv. index & branch offices, end of book)

Hoists (Automobile)

Ginter, J. M., Wooster, O.
Yale & Towne Mfg. Co., 9 Murray, New York.

***Hoists (Belt)**

AMERICAN HOIST & DERRICK CO.
(Double Friction Drum), St. Paul, Minn.
(See adv. index & branch offices, end of book)

CARLIN'S, THOS. SONS CO., 1610
River av (North Side), Pittsburg, Pa. (See
adv. index, end of book)

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y. (See adv. index &
branch offices, end of book)

NATIONAL HOISTING ENGINE CO.
(Single & Double Friction Drum), Harrison,
N. J. (See adv. index & branch offices, end
of book)

***Hoists (Blast Furnace)**

OTIS ELEVATOR CO., 17 Battery pl,
New York. (See adv. index & branch of-
fices, end of book)

Hoists (Builders')

(See Hoists, Contractors' Material; also Ele-
vators, Hod)

***Hoists (Builders' Electric)**

(See also Elevators, Hod)

MEAD-MORRISON MFG. CO. (for
Platform Elevators), Cambridge (Boston),
Mass., & 11 B'way, New York. (See adv.
index & branch offices, end of book)

NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index &
branch offices, end of book)

HENDRICKS' COMMERCIAL REGISTER
IS NOT A CATALOG OF ADVER-
TISERS ALONE, BUT A COMPLETE
REGISTER OF THE MANUFACTURERS
AND JOBBERS IN EVERY LINE OF TRADE
THAT COMES WITHIN THE SCOPE OF
THE WORK.



FIG. 300.

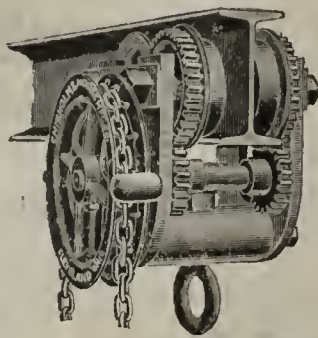
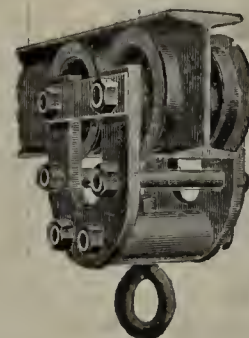
FIG. 112.
GEARED TROLLEY.FIG. 300
"CYCLONE" HIGH SPEED
CHAIN HOIST.FIG. 101.
"DIRECT" DIFFERENTIAL
PULLEY BLOCK.

FIG. 101.

FIG. 113.
PLAIN TROLLEY.FIG. 100.
"MOORE" ANTI-FRICTION
CHAIN HOIST.

The CHISHOLM & MOORE
MFG. CO.

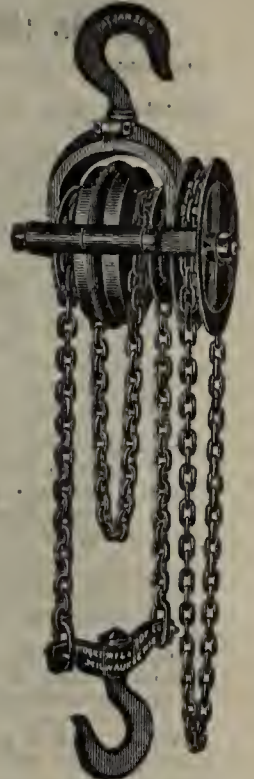


FIG. 100.

SEND FOR CATALOGUE.

CLEVELAND, OHIO.

Hoists (Building Material, Electric)

Grable-Dunn Co. ("Grable," Push the Button), 119 La Salle, Chicago, Ill.

Hoists (Chain)

(See also Pneumatic Hoists)

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.
Box, Alfred & Co., 813 N Front, Philadelphia, Pa.

CHISHOLM & MOORE MFG. CO.
("Moore's" Anti-Friction, with Automatic Brake "Cyclone," High Speed Direct Differential), 49th & Lake, Cleveland, O. (See adv. index, end of book)

Cleveland Crane & Car Co. (Traveling), Wickliffe, O.

Climax Hoist Co. ("Climax"), 1753 N Howard, Phila., Pa.

Coburn Trolley Track Mfg. Co., Holyoke, Mass.

Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.

Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

Curtis & Co. Mfg. Co., St. Louis, Mo.

Dake Engine Co. (Pneumatic), Grand Haven, Mich.

DETROIT HOIST & MACHINE CO.
Detroit, Mich. (See adv. index, end of book)

DOBBIE FOUNDRY & MACHINE CO.
Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)

DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)

Dunn, Jas. P., 3043 Superior, N E, Cleveland, Ohio

Empire Engine & Motor Co. ("Empire" Pneumatic), Orangeburg, N. Y.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

G. & W. MFG. CO. (Also Rope), 26 Cortlandt, New York. (See adv. index, end of book)

Hamburg Mfg. Co., Hamburg, Pa.

Harrington, Edwin Son & Co. ("Peerless" Spur Geared & Harrington "Screw"), 17th & Callowhill, Philadelphia, Pa.

Hobbs, Clinton E. ("Weston"), 10 Pearl, Boston, Mass.

IRVING MFG. & TOOL CO. (J. F. McCoy, Prop.), 169 Chambers, New York. (See adv. index, end of book)

Lane Bros. Co., Poughkeepsie, N. Y.

Moore, Franklin Co. ("Acme," "Imperial," 14 to 20 tons), Winsted, Conn.
NEW JERSEY FOUNDRY & MACHINE Co., 90 West, New York

Ney Mfg. Co. (Rope), Canton, O.

NORTHERN ENGINEERING WORKS
("Electric"), 9 Chene, Detroit, Mich. (See adv. index, end of book)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Reading Chain Block Works, Reading, Pa.

READING CRANE & HOIST WORKS.
Reading, Pa. (See adv. index, end of book)

Round, D. & Son (Hoists & Cranes), 7625 B'way, S. E, Cleveland, O.

SPEIDEL, JOHN G. ("Economy," "Safety"), Reading, Pa. (See adv. index, end of book)

Wagner-Palmros Mfg. Co., Fairmont, W. Va.

Yale & Towne Mfg. Co. (Triplex, Spur Geared & Duplex Screw Geared), 9 Murray, New York

*Hoists (Coal Handling)

NORTHERN ENGINEERING WORKS
(For Unloading Cars, Vessels, etc.), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

***Hoists (Coal, Incline Traveling)**

HAYWARD CO., THE, 50 Church, New York. (See adv. index, end of book)

***Hoists (Combined with Trolley)**

READING CRANE & HOIST WORKS,
Reading, Pa. (See adv. index, end of book)

Hoists (Concrete Bucket)

KOEHRING MACHINE CO. ("Koehring"), Milwaukee, Wis. (See adv. index, end of book)

RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

Wallace-Lindesmith Hoist Co., Los Angeles, Cal.

Hoists (Contractors' Material)

Holton & Weatherwax Co. (Ltd.), Jackson, Mich.

Patten Mfg. Co. ("Painter" Patent, Double Platform, Electric, Gasoline & Steam), Chattanooga, Tenn.

*Hoists (Cylinder)

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

*Hoists (Distillate)

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Hoists (Dock & Deck)

Automatic Machine Co., Bridgeport, Conn.

Bartlett, A. F. & Co., Saginaw, Mich.

Contractors' Plant Mfg Co., 129 Erie, Buffalo, N. Y.

Dake Machine Co. (Pneumatic or Steam), Grand Haven, Mich.

DETROIT HOIST & MACHINE CO.,
Detroit, Mich. (See adv. index, end of book)

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)

Jackson & Church Co., Saginaw, Mich.

LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Marls Bros., 56th & Gray's av, Phila., Pa.

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

MUNDY, J. S. (Electric & Steam),
22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)

NORTHERN ENGINEERING WORKS
("Electric"), 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Union Iron Works Co., San Francisco, Cal.

Williamson Bros., Aramingo av & Cumberland, Phila., Pa.

Hoists (Drum)

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch offices, end of book)

Dodge Mfg. Co., Mishawaka, Ind.

FAIRBANKS, MORSE & CO. (Double Drum), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

FLORY, S. MFG. CO. (Belt & Electric Single & Double Friction, for Quarries, Mines, etc.), Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)

Hoists (Electric)

(See also Pneumatic Hoists; also Cranes, Hand Power; also Cranes, Electric)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN HOIST & DERRICK CO.
(Single & Double Friction Drum, etc.),
St. Paul, Minn. (See adv. index & branch
offices, end of book)

Armington Electric Hoist Co., Wickliffe, O.

Bartholomew, H., Phoenixville, Pa.

BARTLETT, C. O. & SNOW CO. (For
Steam Ship Fueling Lighters), Cleveland,
O. (See adv. index, end of book)

Box, Alfred & Co. (Monorail, etc.), 813 N
Front, Phila., Pa.

BROWN HOISTING MACHINERY CO.,
St. Clair, N. E., Cleveland, O., & 50 Church,
New York. (See adv. index, end of book)

Browning Engineering Co., Cleveland, O.

CARLIN'S, THOS. SONS CO., 1610 River
av (North Side), Pittsburg, Pa. (See adv.
index, end of book)

Case Crane Co., St. Clair & Curtis avs, Co-
lumbus, O.

Chicago Pneumatic Tool Co., Fisher bldg, Chi-
cago, Ill.

Cleveland Crane & Car Co. (Traveling, Plain &
Trolley Type), Wickliffe, O.

Curtis & Co. Mfg. Co., St. Louis, Mo.

Denver Engineering Works Co., Blake & 30th,
Denver, Col.

Detroit Engineering Works, Chene & Guolin,
Detroit, Mich.

DETROIT HOIST & MACHINE CO.,
Detroit, Mich. (See adv. index, end of
book)

DOBBIE FOUNDRY & MACHINE CO.,
Niagara Falls, N. Y., & 82 Warren, New
York. (See adv. index & branch offices,
end of book)

English Iron Works Co. ("Samson"), Kansas
City, Mo.

FAIRBANKS, MORSE & CO., Wabash av
& Eldredge pl, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

FLORY, S. MFG. CO., Bangor, Pa.,
& 149 B'way, New York. (See adv. index,
end of book)

G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)

HELVIG MFG. CO. ("Helwig"), St. Paul,
Minn. (See adv. index, end of book)

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

Hunt, C. W., Co., West New Brighton, S. I.,
N. Y.

JEFFREY MFG. CO., Columbus, O. (See
adv. index & branch offices, end of book)

LAMBERT HOISTING ENGINE CO.,
Main Office & Works: 115-121 Poinier, New-
ark, N. J., & 149 B'way, New York. (See
adv. index, end of book)

LIDGERWOOD MFG. CO., 96 Liberty,
New York, & Old Colony bldg, Chicago,
Ill. (See adv. index & branch offices, end of
book)

McMyler Mfg. Co., Cleveland, O.

Maine Electric Co., Portland, Me.

Marquette, John N. (Reversible, Friction), 509
S Eden, Baltimore, Md.

MEAD-MORRISON MFG. CO. (Gear-
less), Cambridge (Boston), Mass., & 11
B'way, New York. (See adv. index & branch
offices, end of book)

Mine & Smelter Supply Co., Denver, Colo.

Modern Steel Structural Co., Waukesha, Wis.

MUNDY, J. S., 22 Prospect, Newark,
N. J. (See adv. index & branch offices, end
of book)

NATIONAL HOISTING ENGINE CO.
(Double Friction Drum, etc.), Harrison,
N. J. (See adv. index & branch offices,
end of book)

NORTHERN ENGINEERING WORKS
(Chain), 9 Chene, Detroit, Mich. (See adv.
index & branch offices, end of book)

OTIS ELEVATOR CO., 17 Battery
pl, New York. (See adv. index & branch
offices, end of book)

Ottumwa Iron Works, Ottumwa, Iowa

Patten Mfg. Co. ("Painter"), Chattanooga,
Tenn.

Pawling & Harnischfeger, Milwaukee, Wis.

PHOENIX ELECTRIC CO., Mansfield, O.
(See adv. index, end of book)

Portland Co., Portland, Me.

San Francisco Engineering Co., San Fran-
cisco, Cal.

Shepard Electric Crane & Hoist Co., Montour
Falls, N. Y., & 149 B'way, New York

Shriver, T. & Co., Harrison, N. J.

Sprague Electric Co., 527 W 34th, New York

Sturtevant, B. F. Co., Hyde Park, Mass.

Wellman-Seaver-Morgan Co., Cleveland, O.

Yale & Towne Mfg. Co., 9 Murray, New York

WHITING FOUNDRY EQUIPMENT CO.,
Harvey, Ill. (See adv. index & branch
offices, end of book)

Hoists (Electric Chain)

NORTHERN ENGINEERING WORKS.
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)

Sprague Electric Co., 527 W 34th, New York

Hoists (Electric Mine)

Denver Engineering Works Co., Denver, Col.

Goodman Mfg. Co., 39th & Stewart av, Chicago,
Ill.

JEFFREY MFG. CO., Columbus, O. (See
adv. index & branch offices, end of book)

Lake Shore Engine Works, Marquette, Mich.

LAMBERT HOISTING ENGINE CO.,
119 Poinier, Newark, N. J., & 149 B'way,
New York. (See adv. index, end of book)

MEAD-MORRISON MFG. CO., Cam-
bridge (Boston), Mass., & 11 B'way, New
York. (See adv. index & branch offices, end
of book)

Mine & Smelter Supply Co., Denver, Colo.

Mineral Ridge Mfg. Co., Mineral Ridge, O.

PHOENIX ELECTRIC CO., Mansfield, O.
(See adv. index, end of book)

Wellman-Seaver-Morgan Co., Cleveland, O., &
Akron, O.

Willamette Iron & Steel Works, Portland, Ore.

*Hoists (Electric, Reversible Friction)

MONIGHAN MACHINE CO., 813 Car-
roll av, Chicago, Ill. (See adv. index, end
of book)

Hoists (Electric Traveling)

(See also Cranes, Electric Traveling)

Case Crane Co., St. Clair & Curtis avs, Co-
lumbus, O.

G. & W. MFG. CO., 26 Cortlandt, New
York. (See adv. index, end of book)

Niles, Bement Pond Co., 111 B'way, New York

NORTHERN ENGINEERING WORKS.
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)

Shepard Electric Crane & Hoist Co., Montour
Falls, N. Y., & 149 B'way, New York

Sprague Electric Co., 527 W 34th, New York

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index &
branch offices, end of book)

Hoists (Electric Trolley)

(See Hoists, Electric Traveling)

Hoists (Friction & Flat Friction)

Caldwell, H. W. & Son Co. (Hanger & Hori-
zontal Type), 17th & Western av, Chicago,
Ill.

FAIRBANKS, MORSE & CO., Wabash av
& Eldredge pl, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Marquette, Jno. N. (Friction Only), 507 S Eden,
Baltimore, Md.

Massillon Foundry & Machine Co., Massillon, O.

Wallace-Lindsmith Hoist Co., Los Angeles,
Cal.

Hoists (Gasoline)

Alamo Mfg. Co., Hillsdale, Mich.

Corliss Gas Engine Co. (Corliss Mining), 227
Folsom, San Francisco, Cal.

FAIRBANKS, MORSE & CO., Wabash av
& Eldredge pl, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Foos Gas Engine Co. (Mine), Springfield, O.

NORTHERN ENGINEERING WORKS.
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)

Patten Mfg. Co. ("Painter"), Chattanooga,
Tenn.

Price, G. W., Pump & Engine Co., San Fran-
cisco, Cal.

Union Gas Engine Co. (Gas), San Francisco,
Cal.

Western Gas Engine Co., Los Angeles, Cal.

Western Machinery & Mining Supply Co.
(Self Starting), Reno, Nev.

Witte Iron Works Co., Kansas City, Mo.

Hoists (Grip, for Hand Elevators)

Arthur Co., 188 Front, New York

WARSAW ELEVATOR CO., Warsaw,
N. Y., & Erie Co. B'k bldg, Buffalo, N. Y.
(See adv. index & branch offices, end of book)

Hoists (Hand)

(See also Elevators, Hand)

AMERICAN HOIST & DERRICK CO.
(Also Belt), St. Paul, Minn. (See adv. in-
dex & branch offices, end of book)

Bethlehem Foundry & Machine Co., Front,
South Bethlehem, Pa.

Case Crane Co. (Hand Power), St. Clair &
Curtis avs, Columbus, O.

CHISHOLM & MOORE MFG. CO.
("Moore's" Hand Hoist with Lock Brake),
49th & Lake, Cleveland, O. (See adv. in-
dex, end of book)

Coburn Trolley Track Mfg. Co. (Rope Block),
Holyoke, Mass.

Contractors' Plant Mfg. Co., 129 Erie, Buf-
falo, N. Y.

Dedrick's, D. K. Sons, Albany, N. Y.

DOBBIE FOUNDRY & MACHINE CO.,
(Hand Power), Niagara Falls, N. Y., & 82
Warren, New York. (See adv. index & branch
offices, end of book)

FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)

G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)

Great Lakes Engineering W'ks (For Ice Cans),
Detroit, Mich.

Hassell Iron Works Co. (Also Horse Power),
Colorado Springs, Colo.

Hunt, Helm, Ferris & Co. ("Star" Rope &
Block), Harvey, Ill.

Ideal Fence Co., Adrian, Mich.

LAMBERT HOISTING ENGINE CO.,
Main Office & Works, 115-121 Poinier, New-
ark, N. J. (See adv. index & branch offices,
end of book)

Larrabee, Jno. E. (Portable), Amsterdam,
N. Y.

Lord, Bowler & Co., 1004 Centre, Cleveland, O

Mason, Volney W. & Co. (Hand), Providence,
R. I.

NORTHERN MAKE ELECTRIC HOISTS

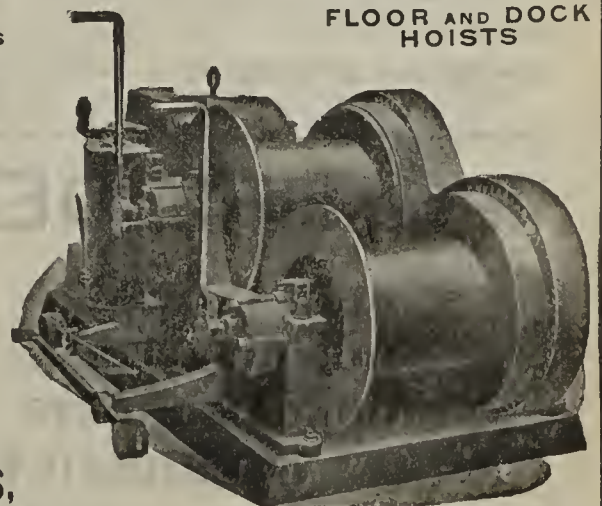
FOR ALL
PURPOSES



GRAB
BUCKET
COAL
HOISTING
PLANTS,
ETC.

NORTHERN ENGINEERING WORKS,
9 Chene St., Detroit, Mich.

FLOOR AND DOCK HOISTS



Mine & Smelter Supply Co. (Hand for Mines, etc.), Denver, Colo.
Moore, Franklin Co., Winsted, Conn.

MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)

NEW JERSEY FOUNDRY & MACHINE Co., 90 West, New York

Ney Mfg. Co., Canton, O.

OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)

Q. M. S. Co., Plainfield, N. J.

READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)

Shriver, T. & Co., Harrison, N. J.

SPEIDEL, JOHN G., Reading, Pa. (See adv. index, end of book)

SPRAGUE CANNING MACHINERY CO. (Also Power for Cannery, etc.), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

WARSAW ELEVATOR CO., Warsaw, N. Y., & Erie Co. B'k bldg, Buffalo, N. Y. (See adv. index & branch offices, end of book)

Yale & Towne Mfg. Co. (Chain), 9 Murray, New York

*Hoists (Hatchway & Out-Rigger)

SEDGWICK MACHINE WORKS, Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index, end of book)

*Hoists (High Speed)

CHISHOLM & MOORE MFG. CO. ("Cy-clone" Chain), 49th & Lake, Cleveland, O. (See adv. index, end of book)

READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)

Hoists (Hod)

(See Elevators, Hod)

*Hoists (Horse)

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

Hoists (Hydraulic)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Hoists (Mine)

Alamo Mfg. Co., Hillsdale, Mich.

Danville Foundry & Machine Co., Danville, Ill.

Davis, F. M. Iron Works Co., Denver, Colo.

Denver Engineering Works Co., Blake & 30th, Denver, Colo.

Hassell Iron Works Co. (Also Horse Power), Colorado Springs, Col.

Holmes, Robt. & Bros. ("Holmes" Automatic Gravity), Danville, Ill.

LIDGERWOOD MFG. CO. (Steam & Electric), 96 Liberty, New York. (See adv. index & branch offices, end of book)

Mine & Smelter Supply Co. (For Mines, etc.), Denver, Colo.

NORTHERN ENGINEERING WORKS, Electric, 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)

Ottumwa Iron Works (Steam & Electric), Ottumwa, Iowa

Western Gas Engine Co., Los Angeles, Cal.

Hoists (Pneumatic)

(See Pneumatic Hoists)

Hoists (Portable)

G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Nicholls, Wm. S. (Up to 6,000 lbs. Capacity), 253 B'way, New York

Q. M. S. Co., Plainfield, N. J.

Yale & Towne Mfg. Co., 9 Murray, New York

Hoists (Quarry)

New Albany Mfg. Co. (Also Belt), New Albany, Ind.

SHAW, WILLIS, CO., 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Hoists (Sidewalk)

(See Elevators, Sidewalk)

Hoists (Steam)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

Box, Alfred & Co., 813 N Front, Phila., Pa.

Browning Engineering Co., Cleveland, O.

Byers, John F. Machine Co., Ravenna, O.

CARLIN'S, THOS. SONS CO., 1610 River av (North Side), Pittsburg, Pa. (See adv. index, end of book)

Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)

English Iron Works Co. ("Samson"), Kansas City, Mo.

FAIRBANKS, MORSE & CO. (Steam Geared), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)

Hunt, C. W., Co., W. New Brighton, N. Y.

Ideal Fence Co., Adrian, Mich.

Jackson & Church Co., Saginaw, Mich.

LAMBERT HOISTING ENGINE CO., Main Office & Works, 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Lord, Bowler & Co., 1004 Center, Cleveland, Ohio

Marine Iron Co., Bay City, Mich.

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Mineral Ridge Mfg. Co., Mineral Ridge, O.

MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)

N. Y. Cableway & Engineering Co., 1 Rector, New York

Ottumwa Iron Works, Ottumwa, Iowa

Portage Lake Foundry & Machinery Co., Hancock, Mich.

Risdon Iron & Locomotive Works, Steuart & Folsom, San Francisco, Cal.

SHAW, WILLIS CO., 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Union Iron Works Co., San Francisco, Cal.

United Iron Works Co. ("Freeman" Geared), Joplin, Mo.

Wellman-Seaver-Morgan Co., Cleveland, O.

Whitcomb Bros. (For Granite Quarries, etc.), Barre, Vt.

Williamson Bros., Aramingo av & Cumberland, Phila., Pa.

Hoists (Telpher)

(See Telpherage, Electric Conveying)

Hoists (Traveling)

(See also Hoists, Electric Traveling)

Cleveland Crane & Car Co. (Hand or Electric Power, etc.), Wickliffe, Ohio

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

NEW JERSEY FOUNDRY & MACHINE Co., 90 West, New York

Quincy, Manchester, Sargent Co. (Trolley), Plainfield, N. J.

READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)

SPEIDEL, JOHN G., Reading, Pa. (See adv. index end of book)

Yale & Towne Mfg. Co. (Chain or Electric), 9 Murray, New York

Hoists (Wheelbarrow)

(See also Elevators, Hod; also Hoists, Builders' Electric)

Patten Mfg. Co. ("Palnter"), Chattanooga, Tenn.

Simpson Hod Elevating Co., Newark, N. J.

Holders (Automobile Tire)

Turner Brass Works, Sycamore, Ill.

Holders (Bag)

American Buncher Mfg. Co., Indianapolis, Ind.

Beleher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.

Bowsher, N. P. Co., South Bend, Ind.

Comstock, Geo. S., Mechanicsburg, Pa.

Great Western Mfg. Co. ("Mosher"), Leavenworth, Kan.

Nordyke & Marmon Co., Indianapolis, Ind.

Pearson Mfg. Co. (Sack Holder), Edwardsville, Kan.

South Bend Snark Arrester Co., South Bend, Ind.

SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)

WEBSTER MFG. CO. ("Mosher"), 1075 W 15th, Chicago, Ill. (See adv. index & branch offices, end of book)

J. G. SPEIDEL, Reading, Pa., MANUFACTURER OF SPEIDEL'S PATENT

ELEVATORS.

HAND POWER TRAVELLING CRANES.

DUMBWAITERS.

CHAIN HOISTS, HAND POWER HOISTS.

CELLAR HOISTS.

ASH AND SIDEWALK LIFTS.

OVERHEAD TRAMWAYS AND TRACKS COMPLETE.

CATALOG MAILED ON APPLICATION.

Holders (Bit Brace)

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co., Greenfield, Mass.

Holders (Brush)

Baylis Co. ("Reaction"), 140 Washington, New York
Eager Electric Co. ("Eureka"), Watertown, N. Y.
Eureka Commutator Brush Co., 440 National av., Milwaukee, Wis.
Eureka Tempered Copper Works, North East, Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Perfection Supply Co., 621 B'way, New York
Pullman Mfg. Co., Rochester, N. Y.
Railway Steel Spring Co., 30 Church, New York

Holders (Candle)

Hess, H. G. ("Star Safety" X-Mass Tree), 37 E 3d, Cincinnati, O.
Kirsch Patent Co. (M. Reinhardt, Prop.), (X-mas Tree), Newark, N. J.
Stortz, John, & Son (Plumbers'), 210 Vine, Phila., Pa.

Holders (Carbon)

Bogue, Chas. J. Elec. Co., 513 W 29th, New York
Central City Brass Mfg. Co., Syracuse, N. Y.
Phila. Electrical & Mfg. Co., 1232 N 31st, Phila., Pa.
Turner Brass Works, Sycamore, Ill.

Holders (Card & Label)

Corbin Cabinet Lock Co. (Bronze & Brass), New Britain, Conn.
Eagle Lock Co., Terryville, Conn.
Grammes, L. F. & Sons, Allentown, Pa.
Novelty Mfg. Co., Waterbury, Conn.
Phillips, A. J. Co., Fenton, Mich.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Holders (Christmas Tree)

Donnelly, John ("Hub"), Branford, Conn.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
North Bros. Mfg. Co. ("Crown"), Lehigh av & American, Phila., Pa.
Osborn Mfg. Co. ("Osborn" Hardwood), Cleveland, O.
Peck, C. A. Hdw. & Mfg. Co. ("Gem"), Berlin, Wis.
Penn Hardware Co., Reading, Pa.
Phoenix Hdw. Mfg. Co., Homer, N. Y.
Rhineland Refrigerator Co., Rhineland, Wis.

Holders (Chucking Reamer)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.

Holders (Concrete)

Grabler Mfg. Co. (Steel, also Extension), Cleveland, O.

Holders (Copy)

Dudley Mfg. Co. ("Dudley" Loose Leaf, Book & Copy, etc.), Marion, O.

Holders (Die & Tap)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Beaman & Smith Co. (Tap), Providence, R. I.
Brannsdorf-Mueller Co., Elizabeth, N. J.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co. (Die Holders Only), Mansfield, Mass.
Carpenter, J. M. Tap & Die Co. (Bit Brace, Lathe), Pawtucket, R. I.
Diamond Power Specialty Co. ("Diamond"), Detroit, Mich.
Geometric Tool Co. (Reversion of Tap Holder), New Haven, Conn.
Hartford Machine Screw Co., Hartford, Conn.
Modern Tool Co., Erie, Pa.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son (Bit Brace), Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.

Quint, A. D. (Tap), Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.

WELLS BROS. CO. ("Little Giant" Drill, etc.), Greenfield, Mass. (See adv. index, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Holders (Door)

(See Door Stops)

***Holders (Drill)**

STAR EXPANSION BOLT CO. (Electrician's Brick & Stone), 147 Cedar, New York. (See adv. index & branch offices, end of book)
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Holders (Electric Drop Lamp)

Gail-Webb Mfg. Co. ("Universal"), Buffalo, N. Y.

Holders (Electric Lamp)

Brady, T. H., New Britain, Conn.
BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
Farles Mfg. Co. (Adjustable), Decatur, Ill.
Ohio Electric Specialty Mfg. Co., Troy, Ohio
Roome Mfg. Co. (Radical), Columbus, Ohio.
Zephyr Ventilator Mfg. Co. (Radial), Phila., Pa.

Holders (Extension Bit)

(See Bits, Expansive)

Holders (File)

Western Tool & Mfg. Co. ("Lutz" Universal), Springfield, O.

Holders (Fishing Rod)

Franklin Specialty Co. ("Rambler"), Reading, Pa.

Holders (Flag Pole)

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
National Supply Co., 7 W Lombard, Baltimore, Md.

Holders (Hog)

Stearns, E. C. & Co., Syracuse, N. Y.

Holders (Label)

(See Holders, Card & Label)

Holders (Magnetic Lamp)

Aurora Electric Co., Aurora, Ind.
Stiles, H. A. & Co. ("Collom"), Boston, Mass.

Holders (Milk Jar)

Hamblin & Russell Mfg. Co., Worcester, Mass.

Holders (Mop)

(See Mop Sticks & Holders)

Holders (Pipe Nipple)

Amerlean Pin Co. (Brass), Waterbury, Conn.
ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)
Curtis & Curtis Co., Bridgeport, Conn.
Fee & Mason (& for Flush Pipes), 81 Beekman, New York
Merrell Mfg. Co., Toledo, O.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

***Holders (Punch)**

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

Holders (Radial Light)

Roome Mfg. Co. (Gas & Electric), Union Nat'l B'k bldg., Columbus, O.

Holders (Sack or Bag)

(See Holders, Bag)

Holders (Scraper)

Western Tool & Mfg. Co. ("Lutz" & "Lutz Universal"), Springfield, O.

Holders (Shade or Globe)

American Brass & Copper Co., 138 Lafayette, New York
Bridgeport Brass Co., Bridgeport, Conn.
Bryant Electric Co. (Electric), Bridgeport, Conn.
Gies, Wm. L. Co. ("Gies," Screwless), Belleville, N. J.
Goodwin & Kintz Co., Winsted, Conn.
Hubbell, Harvey (Inc.) ("Hubbell" Shade), Bridgeport, Conn.
J-E-M Shade Holder Co. ("J-E-M" for Incandescent Lights), 13 E 30th, New York
Kraushaar Brass Mfg. Co. (Aluminum Elec. Reflector Shades & Holders Combined, etc.), St. Louis, Mo.
Manhattan Brass Co., 338 E 28th, New York
Mitchell-Vance Co., 836 B'way, New York
Plume & Atwood Mfg. Co. (Gas & Electric Globe), Waterbury, Conn.
Remhof, Chas., 381 Kent av., Brooklyn, N. Y.
Standard Electric & Chemical Co. ("Universal"), 224 S Clinton, Chicago, Ill.
Steele & Johnson Mfg. Co., Waterbury, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Valley Mfg. Co., New Kensington, Pa.
Waterbury Brass Goods Corp., Waterbury, Conn.
Waterbury Mfg. Co., Waterbury, Conn.
White, Jas. H. Mfg. Co., 111 N 3d, Brooklyn, N. Y.

***Holders (Stake)**

STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)

***Holders (Steel Shingle)**

TAYLOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)

Holders (Tap)

(See Holders, Die & Tap)

Holders (Telephone Receiver)

Frady, E. O. Co. ("Adjustaphone"), 35 Rand, Chicago, Ill.
Graeber-Entrikln Mfg. Co. (Inc.) ("Invincible"), Chestnut, Phila., Pa.
Oliver Mfg. Co. ("Equipose"), 420 Sansom, Phila., Pa.
Staats Mfg. Co., Chicago, Ill.

Holders (Tire Bolt)

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Holders (Toilet Paper)

A. P. W. Paper Co., Albany, N. Y.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Forsyth Mfg. Co. ("No. 803"), Buffalo, N. Y.
Franklin Specialty Co., Reading, Pa.
Shelby Spring Hinge Co. ("Satln," "Silk," Steel & Brass), Shelby, O.

Holders (Tool, Etc.)

Allman Gas Engine & Machine Co. ("Miller" Lathe), 29 Sullivan, New York
Armstrong Bros. Tool Co., 104 N San Francisco av., Chicago, Ill.
Bay State Tap & Die Co. (Die, Bit, Brace & Lathe), Mansfield, Mass.
Beaman & Smith Co. (Safety Drill & Tap), Providence, R. I.
Billings & Spencer Co., Hartford, Conn.
Bown Machine Co. ("Bown," for Lathe, Shaper & Planer), Battle Creek, Mich.
Brown & Sharpe Mfg. Co. (For Screw Machines, etc.), Providence, R. I.
Carr Bros. ("Carr"), Syracuse, N. Y.
CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)
Clifford Tool Co., Concord, N. H.
Colton Combination Tool Co. ("R. E. Colton's," for Lathe Tools), East Hampton, Mass.
Detroit Twist Drill Co. (Lathe Drill), Detroit, Mich.
Dwight Slate Machine Co., Hartford, Conn.

Errington, Franklin A., 39 Cortlandt, New York
 Fairbanks Co. ("United States"), Springfield, O.
 Geier, P. A. Co. ("Geier" Boring Tool Holder),
 5112 St. Clair av. N E, Cleveland, O.
 Goodell-Pratt Co., Greenfield, Mass.
 Graham Mfg. Co. ("Knurl"), Providence, R. I.
 Hartford Machine Screw Co., Hartford, Conn.
 Hill Standard Mfg. Co. ("Hill" & "Eberhardt"), Anderson, Ind.
 Hoggson & Pettis Mfg. Co. (Carr's Combination), New Haven, Conn.
 Jeunesville Iron Works Co., Jeunesville, Pa.
 Kelly, P. J. ("Climax" Universal Lathe),
 Elizabeth, N. J.
 Keystone Mfg. Co. ("Morse" Boring Tool), 41
 Chandler, Buffalo, N. Y.
 Krieger Tool & Mfg. Co. ("Chicago" for
 Boring Tools, Drills, Reamers, etc.), 479
 N Park, Chicago, Ill.
 Lang, G. R., Co. ("Lang"), Meadville, Pa.
 Le Count, Wm. G. (Chuck Drill), South Norwalk, Conn.
 Millers Falls Co. (For Hand Tools), 28 Warren, New York; Works: Millers Falls, Mass.
 Mingst, C. P. (Lathe & Plauer), Evansville, Ind.
 Modern Tool Co. (Die, Tap, etc.), Erie, Pa.
 O. K. Tool Holder Co., Shelton, Conn.
 Oliver Machinery Co. (For Wood Lathes),
 Grand Rapids, Mich.
 Polk, A. J. & Son (Drill, Die, etc.), Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Ready Tool Co., New Haven, Conn.
 Reece, Edward F. Co., Greenfield, Mass.
 Springfield Foundry Co. ("United States"),
 Springfield, O.
 Van Doren Mfg. Co. ("Tait's Universal" for
 Lathe, Planer, Shaper, etc.), 56 W Van
 Buren, Chicago, Ill.
 Western Tool & Mfg. Co. ("The Champion"),
 Springfield, O.

Holders (Tumbler, Etc.)

Forsyth Mfg. Co., Buffalo, N. Y.
 Wire Goods Co., Worcester, Mass.

Holders (Twine)

Introstyle Novelty Mfg. Co. ("Ideal"), Marietta, O.
 New York Roll Wrapping Co. ("Simplex" & "Popular"), 84 Beekman, New York
 Tatum, Samuel C. Co., Cincinnati, O.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 West Mfg. Co., Columbus, O.

Hollow Ware Mfrs.

(See Enameled Hollow Ware; also Aluminum Hollow Ware)

Hones (Razor)

Carborundum Co., Niagara Falls, N. Y.
 Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York

Hoods (Conning Tower)

Morton, Robert E., 26 South, New York

Hoods (Motor)

BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)
 Briscoe Mfg. Co., Detroit, Mich.
 Detroit Carriage Co., Clay av nr St. Aubin av, Detroit, Mich.
 Hayes Mfg. Co., Detroit, Mich.
 Kells, W. J. Mfg. Co., Newark & West Side avs, Jersey City, N. J.
 Kinsey Mfg. Co., 1126 E 3, Dayton, O.
 Quinby, J. M. & Co., 27 Division, Newark, N. J.
 Neustadt, J. H. Co., 826 S 18th, St. Louis, Mo.
 Reading Metal Body Co., 8th & Chestnut, Reading, Pa.
 Rome-Turney Radiator Co., Rome, N. Y.
 Springfield Metal Body Co., Birnie av, Springfield, Mass.
 Trageser, John, Steam Copper Works, 447 W 26th, New York
 U. S. Aluminum Co., Park bldg, Pittsburg, Pa.
 Walker, James & Son, 43 Jefferson av, Detroit, Mich.

Hoods (Spray)

Durkee, C. D. & Co., 2 South, New York
 Jones & Robinson, 83 Front, New York.
 McClellan, Chas. P. ("Simplicity"), Fall River, Mass.

Hoods & Fixtures (Electric Lamp)

Ajax Line Material Co. ("Pelican"), 12 S Jefferson, Chicago, Ill.
 Almon, G. H., Montpelier, Vt.
 American Reflector & Lighting Co., 201 Van Buren, Chicago, Ill.
 Brady, T. H., New Britain, Conn.
 Cutter, Geo. Co., South Bend, Ind.
 Fletcher Mfg. Co., Dayton, O.
 Fort Wayne Electric Works (Inc.), Ft. Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Klemm & Co., 132 N 5th, Phila., Pa.
 Lundin Electric & Machine Co., Boston, Mass.
 Overbagh & Ayres Mfg. Co. ("Oamco"), 232 S Clinton, Chicago, Ill.
 Phila. Electrical & Mfg. Co. (Copper Incandescent Street), 1232 N 31st, Phila., Pa.
 Roberts, H. C. Electric Supply Co., 905 Arch, Phila., Pa.
 Russell Elec Mfg. Co., Providence, R. I.
 Tea Tray Co. ("Tidman," "Chapin," "Columbian," "Marten," "Jersey," "Murray," "Tuxedo," "Tremont"), Newark, N. J.
 Wheeler Reflector Co., 156 Pearl, Boston, Mass.

Hook & Eye Mfrs.

Star Pin Co. (Dress, Pants, Cloak & Military), Derby, Conn.
TURNER & SEYMOUR MFG. CO. (And Specialties), Torrington, Conn. (See adv. index, end of book)

Hooks (Agricultural)

Oliver Iron & Steel Co., Pittsburg, Pa.

Hooks (Awning)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Hazel Atlas Glass Co., Wheeling, W. Va.
 Humason & Beckley Mfg. Co., "Wrought," New Britain, Conn.
 Morgan Spring Co., Worcester, Mass.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Bale & Box)

Duffy Mfg. Co., 125 Indiana, Chicago, Ill.
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 211 Center, New York
 Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Barrel)

Morgan Spring Co., Worcester, Mass.
 Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Beam)

National Tube Co. (Plate & Chandelier), Pittsburg, Pa.

Hooks (Belt)

(See Belt Fasteners)

Hooks (Bench)

Dicke Tool Co., Downers Grove, Ill.
 Hoague, J. H., Chicopee, Mass.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Smith, Seymour & Son (Reversible & Screw Adjusting), Oakville, Conn.
 Stearns, E. C. & Co., Syracuse, N. Y.
 Stover Mfg. Co., Freeport, Ill.
 Vaughan & Bushnell Mfg. Co., 877 Carroll av, Chicago, Ill.
 Whipple, R. P. & Co. (Carpenters'), Springfield, Mass.

Hooks (Bill)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York

Hooks (Bird Cage)

Arcade Mfg. Co. (Swinging, etc.), Freeport, Ill.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Metal Mfg. Co., New Haven, Conn.
 Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

SOLTMANN, E. G.

(Suspension Hooks for Hanging from Picture Mouldings), 125 E 42d, New York. (See adv. index, end of book)
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 Wire Goods Co., Worcester, Mass.

Hooks (Boat & Mooring)

Durkee, C. D. & Co. ("Jacoby"), 2 South, New York
 Laughlin, Thos. Co., Portland, Me.
 Marine Hardware Co., Peabody, Mass.
 Shelton Co., Derby, Conn.
 Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Box)

(See Hooks, Cotton & Box)

Hooks (Brass Cup & Shoulder)

Brooks, M. S. & Sons, Chester, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Hooks (Bush)

American Axe & Tool Co. (Strapped Eye, etc.), Glassport, Pa., & 253 B'way, New York
 Black, John B. ("Wm. Beatty & Sons" Axe Handle, One & Two Ring), Chester, Pa.
 Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Collins Co., Collinsville, Conn.
 Evansville Tool Works, Evansville, Ind.
 Iwans Bros., Streator, Ill.
 Peck, Stow & Wilcox Co., Southington, Conn., & 27 Murray, New York
 Plumb, Fayette R., James & P. R. R., Phila., Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Wadsworth, David & Son, Auburn, N. Y.

Hooks (Button)

Havell Mfg. Co., Newark, N. J.
 Klein, M. & Bro. ("M.K. & B."), Bridgeport, Conn.
 Ross, Jos., Jr. & Co., Newark, N. J.

Hooks (Cabin Door)

Corbin Cabinet Lock Co., New Britain, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Hooks (Cant)

(See Canthooks)

Hooks (Carrying)

Anderson Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Columbus Handle & Tool Co., Columbus, Ind.
 Dicke, C. H. & Co., Downers Grove, Ill.
 Klein, Mathias & Sons, 78 Van Buren, Chicago, Ill.
 Mickel, Fred. L., 83 E 13th, Chicago, Ill.
 Oshkosh Logging Tool Co., Oshkosh, Wis.

Hooks (Ceiling)

Arcade Mfg. Co. ("Arcadian" Brouze), Freeport, Ill.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Hardware & Woodenware Mfg. Co., 693 B'way, New York
 Jenckes, E. Mfg. Co. ("Crescent" & "Jenckes" Wire), Pawtucket, R. I.
 National Mfg. Co., Sterling, Ill.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Susquehanna Casting Co., Wrightsville, Pa.
 Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
 Wire Goods Co., Worcester, Mass.

Hooks (Clam)

Union Fork & Hoe Co., Columbus, O.

Hooks (Clothes Line)

Franklin Specialty Co. ("Perfection"), Reading, Pa.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Hardware & Woodenware Mfg. Co., 693 B'way, New York
 National Supply Co., 7 W Lombard, Baltimore, Md.
 Reading Hardware Co., Reading, Pa.
 Russell & Edwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Susquehanna Casting Co., Wrightsville, Pa.
 Vaughn & Bushnell ("V. & B.") Steel Screw or Drive), 875 W Carroll av, Chicago, Ill.
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wire Goods Co., Worcester, Mass.

Hooks (Coat & Hat)

Atlas Mfg. Co. ("Bradley"), New Haven, Conn.
 Bromwell Co. (Wire), Cincinnati, O.
 Columbian Hardware Co. ("Gem" Anti-Rust), Cleveland, O., & 168 Church, New York
 Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
 Grab, Victor M., & Co. ("Yale" Wardrobe, Hat & Cloak), Ashland Bk., Chicago, Ill.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Jenckes, E. Mfg. Co. ("Crescent" & "Invisible" Wire), Pawtucket, R. I.
 Landers, Frary & Clark, New Britain, Conn.
 Morgan Spring Co., Worcester, Mass.
 National Mfg. Co., Sterling, Ill.
 Ossawan Mills Co., Norwich, Conn.
 Parker Wire Goods Co. (Wire), Worcester, Mass.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Turner & Stanton Co., Norwich, Conn.
 Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
 Wilcox, Crittenden & Co. (Galvanized Iron or Brass), Middletown, Conn.
 Wire Goods Co. (Brass & Steel), Worcester, Mass.
WRIGHT WIRE CO. ("Crook"), Worcester, Mass.
 Wrightsville Hdw. Co., Wrightsville, Pa.
 Yale & Towne Mfg. Co., 9 Murray, New York

Hooks (Coke Scraper)

Oliver Iron & Steel Co., Pittsburg, Pa.

Hooks (Conductor Pipe)

CANTON MFG. CO., Canton, O. (See adv. index, end of book)
EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O. (See adv. index, end of book)
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Vaughn & Bushnell Mfg. Co. ("V. & B." Drop Forged), 875 W Carroll av, Chicago, Ill.

Hooks (Corn)

Clyde Cutlery Co., Clyde, O.
 Columbian Cutlery Co., Reading, Pa.
 North Wayne Tool Co., Hallowell, Me.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Hooks (Cornice)

Hamblin & Russell Mfg. Co., Worcester, Mass.
 Jenckes, E. Mfg. Co. (Wire), Pawtucket, R. I.

Hooks (Cotton & Box)

Bernz, Otto, S 13th & S Orange av, Newark, N. J.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Carver Tool Works, Spring Valley, N. Y.
 Falls Mfg. Co. (Hay, Bale, Box & Cargo Hooks), San Francisco, Cal.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Johnson, Wm. (Hedensberg Works), Newark, N. J.
 New London Vise Works (Bale, Box, Can, Barrel, etc.), New London, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Stortz, John & Son, 210 Vine, Phila., Pa.

Vaughn & Bushnell Mfg. Co. ("V. & B." Wood or Steel Handle), Chicago, Ill.
 Watson, Thomas ("Butler's"), 557 W. 35th, New York
 Wilcox, Crittenden & Co., Middletown, Conn.
 Zerling, H. Mfg. Co., Cincinnati, O.

Hooks (Crate & Basket)

Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
 Morgan Spring Co., Worcester, Mass.

***Hooks Drapery**

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Hooks (Drive)

Grabler Mfg. Co., Cleveland, O.

Hooks (Floor)

Oliver Iron & Steel Co., Pittsburg, Pa.

Hooks (Gaff)

Melsselhach, A. F. & Bro., Newark, N. J.

Hooks (Gate)

(See Hooks & Eyes, Gate)

Hooks (Grab)

AMERICAN HOIST & DERRICK CO. (Forged Steel), St. Paul, Minn. (See adv. index & branch offices, end of book)
 Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
 Byers, Jno. F. Machine Co. (Or Chain), Ravenna, O.
 Champion Tool & Handle Co., Evart, Mich.
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
 Hayden-Corbett Chain Co. (For Log Chais, etc.), Columbus, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Seneca Chain Co., Kent, O.
 Wallingford Mfg. Co. ("Borden's"), Wallingford, Vt.

Hooks (Grape Grubbing)

Munnsville Plow Co., Munnsville, N. Y.

Hooks (Grass)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
 Atkins, E. C. & Co., Indianapolis, Ind.
 Columbian Cutlery Co., Reading, Pa.
 Dunn Edge Tool Co., Oakland, Me.
 Indiana Edge Tool Co. ("Premier," "Easy," "Superior," "Hercules," "Acme," "Electric,") Gas City, Ind.
 Mack Co., Rochester, N. Y.
 Nolln Mfg. Co. ("Nolln," "Crescent" & "Concave"), Skowhegan, Me.
 North Wayne Tool Co. ("Little Giant"), Hallowell, Me.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Washington Cutlery Co., Watertown, Wis.

Hooks (Guy Wire)

Lang, M. & Sons, 29th & Carton, Pittsburg, Pa.

Hooks (Hammock)

Arcade Mfg. Co., Freeport, Ill.
 Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Brooks, M. S. & Sons (Wrought), Chester, Conn.
 Corbin, P. & F., New Britain, Conn.
 Penn Hardware Co., Wheeling, W. Va.
 Keystone, Drop Forge Co. (Drop Forged), Chester, Pa.
 Landers, Frary & Clark, New Britain, Conn.
 Palmer, I. E. (Adjustable), Middletown, Conn.
 Penn Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wire Goods Co. (Wrought), Worcester, Mass.

Hooks (Hanging)

Oliver Iron & Steel Co., Pittsburg, Pa.

Hooks (Harness)

Arcade Mfg. Co. (Japanned), Freeport, Ill.
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
 Brooks, M. S. & Sons, Chester, Conn.
 Covert Mfg. Co., Troy, N. Y.
 Falls Mfg. Co. (For Homes, Fire Dep't Harness, etc.), San Francisco, Cal.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Hardware & Woodenware Mfg. Co., 693 B'way, New York
 National Supply Co., 7 W Lombard, Baltimore, Md.
 North & Judd Mfg. Co., New Britain, Conn.
 Oliver Iron & Steel Co. (Hame Hooks), Pittsburg, Pa.
 Penn Hardware Co., Reading, Pa.
 Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sovereign, C. E. Co., Rockford, Ill.
 Wire Goods Co. (Wire), Worcester, Mass.

Hooks (Hay)

Myers, F. E., & Bro., Ashland, O.
 Schlueter, M. L., 36 S Canal, Chicago, Ill.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Steel), 875 W Carroll av, Chicago, Ill.
 Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Hitching)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Hooks (Hoist)

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Keystone Drop Forge Works (Drop Forged), Chester, Pa.
 Solid Steel Tool & Forge Co. (With Eye & Shank), Brackenridge, Pa.

Hooks (Ice)

American Fork & Hoe Co. (Steel), Cleveland, O.
 Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
 Stortz, John & Son, 210 Vine, Philadelphia, Pa.

Hooks (Insulating)

Ajax Line Material Co., 12 S Jefferson, Chicago, Ill.
 Anderson, Albert & J. M. Mfg. Co., Boston, Mass.
 Brooks, M. S. & Sons, Chester, Conn.
 Cutter, Geo. Co., South Bend, Ind.
 Diamond Expansion Bolt Co. ("D-X," Bridle Rings, 90 West, New York
 Pettingell, Andrews Co. ("O'Neil"), Boston, Mass.

Hooks (Ladder)

Brewer Bros. (Wrought Iron), 614 Filbert, Philadelphia, Pa.
 Moulton, C. W. & Co., Somerville, Mass.

Hooks (Lamp)

Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Hooks (Lumbermen's)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Champion Tool & Handle Co., (Lug, Grappling, Swamp, etc.), Evart, Mich.
 Oshkosh Logging Tool Co. (Lug, Grappling, Swamp, etc.), Oshkosh, Wis.
 Warren Axe & Tool Co. (Lug, Grapple, Swamp, etc.), Warren, Pa.

Hooks (Meat)

Grabler Mfg. Co., Cleveland, O.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Humason & Beckley Mfg. Co. (Wrought), New Britain, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Vanghn & Bushnell Mfg. Co. ("V. & B." Steel"), 875 W Carroll av, Chicago, Ill.
 Wire Goods Co. (Wrought), Worcester, Mass.

Hooks (Moulding)

(See Hooks, Picture)

***Hooks (Nut Cracker)**

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

***Hooks (Packing)**

STRONG MACHINERY & SUPPLY CO. ("Strong's" Lightning & Improved Old Style), 48 Franklin, New York. (See adv. index, end of book)

Hooks (Picture)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Brooks, M. S. & Sons (Also Brass Tassel Hooks, etc.), Chester, Conn.
 Forsyth Mfg. Co. ("Uncle Sam," "Beauty," "Big Giant," "Orient"), Buffalo, N. Y.
 Metal Mfg. Co., New Haven, Conn.
 Novelty Mfg. Co., Waterbury, Conn.
 Peckham, John A., 958 Grand av, New Haven, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 Wire Goods Co. (Brass, etc.), Worcester, Mass.

Hooks (Pipe)

Avery Stamping Co. ("Never-Break" Steel Plates), Cleveland, O.
 Boston Bolt Co., 40 Farnsworth, Boston, Mass.
 Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Climax Specialty Co., Seneca Falls, N. Y.
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Devlin, Thos. Mfg. Co., 3d & Lehigh av, Phila., Pa.
 Exeter Machine Works, Exeter, N. H., & 32 Oliver, Boston, Mass.
 Falls Mfg. Co., San Francisco, Cal.
 Grabler Mfg. Co. (Steel), Cleveland, O.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburgh, Pa.
 Lalance & Grosjean Mfg. Co., 299 B'way, New York
 Lange, August K., 606 E 15th, New York
 Newbury Mfg. Co., Monroe, N. Y.
 New England Bolt & Steel Co. (Pipe Hooks), 3 Charlton, Everett, Mass.
 Sargent & Co., New Haven, Conn., & 94 Centre, New York

Hooks (Potato, Manure, Etc.)

American Fork & Hoe Co., Cleveland, O.
 Brown, Hinman & Huntington Co., Memphis, Tenn.
 Harriman Hoe & Tool Co., Harriman, Tenn.
 Kohler, F. E., & Co. (Potato), Canton, O.
 Russell & Erwin Mfg. Co. (Potato Only), New Britain, Conn., & 96 Lafayette, New York
 Union Fork & Hoe Co., Columbus, O.

Hooks ("S" or "Eight")

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Brooks, M. S. & Sons (Iron or Brass Wire), Chester, Conn.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Morgan Spring Co., Worcester, Mass.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Russell & Erwin Mfg. Co. (Wrought), New Britain, Conn., & 96 Lafayette, New York
 Smith & Egge Mfg. Co., Bridgeport, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wire Goods Co., Worcester, Mass.

Hooks (Safety, for Mine Cages)

Wellman-Seaver-Morgan Co., Cleveland, O.

Hooks (Sash Pull)

Reading Hardware Co., Reading, Pa.

Hooks (School House)

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Wrightsville Hardware Co., Wrightsville, Pa.

Hooks (Screw)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.
 Brooks, M. S. & Sons (Iron & Brass Wire), Chester, Conn.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Jenckes, E. Mfg. Co. (Brass Wire), Pawtucket, R. I.
 Russell & Erwin Mfg. Co. (Brass Wire), New Britain, Conn., & 96 Lafayette, New York
 Solid Steel Tool & Forge Co., Brackenridge, Pa.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wire Goods Co. (Bright Wire & Brass Wire), Worcester, Mass.

Hooks (Shackle)

Keystone Drop Forge Works ("Keystone," Safety), Chester, Pa.

Hooks (Shave)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
 Johnson, Wm. (Hedenberg Works) Newark, N. J.

Hooks (Shoe & Glove)

(See Hooks, Button)

Hooks (Sign)

Brewer Bros. (Wrought Iron), 614 Filbert, Philadelphia, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Hooks (Snap)

Billings & Spencer Co. ("Billings" Drop Forged, Rein. Pole & Chain), Hartford, Conn.
 Draper & Hall Co. ("Hayes" Lock), Middletown, Conn.
 Hayward, S. F. & Co. (Fire Dept.), 39 Park Pl., New York
 Wilcox, Crittenden & Co., Middletown, Conn.

Hooks (Stable Door)

Peters, Jas. & Son (Wrought Iron), 1934 N Front, Philadelphia, Pa.

Hooks (Stay Chain)

Oliver Iron & Steel Co., Pittsburg, Pa.

Hooks (Tag)

Morgan Spring Co., Worcester, Mass.
 Wire Specialty Co. ("Ideal"), 26 W Randolph, Chicago, Ill.

Hooks (Telephone Hanger)

Morgan Spring Co., Worcester, Mass.
 Wire Specialty Co., 26 W Randolph, Chicago, Ill.

Hooks (Towing)

Chase Machine Co. ("Releasing"), Cleveland, O.

Hooks (Weeding)

Arcade Mfg. Co., Freeport, Ill.
 Rocky Hill Hardware Co., Rocky Hill, Conn.

Hooks (Whiffletree)

Giblin & Co., Utica, N. Y.

Hooks (Window Pole)

Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.

Hooks (Wire)

Brooks, M. S. & Sons (All Kinds Brass & Iron), Chester, Conn.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Wire Goods Co. ("Drive"), Worcester, Mass.

Hooks (Wood Pulp)

Dupont & Anderson, St. Johnsbury, Vt.

Hooks & Eyes (Brace)

Brewer Bros. (Wrought Iron), 614 Filbert, Phila., Pa.

Hooks & Eyes (Brass & Steel)

Wire Goods Co., Worcester, Mass.

Hooks & Eyes (Gate)

Brooks, M. S. & Sons, Chester, Conn.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Humason & Beckley Mfg. Co., New Britain, Conn.
 Jenckes, E. Mfg. Co. (Iron & Brass), Pawtucket, R. I.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Wire Goods Co., Worcester, Mass.

Hooks & Eyes (Tent)

Wilcox, Crittenden & Co. (Brass), Middletown, Conn.

Hooks & Rings (Plate)

Wilcox, Crittenden & Co., Middletown, Conn.

Hooks & Tees (Chain)

Dayton Malleable Iron Co., Dayton, O.
 New Castle Forge & Bolt Co., New Castle, Pa.

Hoop Drives

Brewer Bros. (Wrought Iron), 614 Filbert, Philadelphia, Pa.

***Hoop Rounders**

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Hoops (Mast)

Laughlin, Thos. Co. (Galvanized Wrought Iron), Portland, Me.
 McMillan's, W. H. Sons, 153 South, New York
 Maryland Steam Block & Pump Works, Baltimore, Md.
 Moffitt, J. D., Scotland, Conn.

Hoops (Truss)

Cincinnati Truss Hoop Co. (Iron & Steel Barrel), 115 W 2d, Cincinnati, O.
 Frelinger, J. G., 115 W 2d, Cincinnati, O.
 Globe Mfg. Co., Anderson, Ind.
 Nunning, Frank, & Son, 215 W 2d, Cincinnati, O.

Hoops (Wire)

AMERICAN STEEL & WIRE CO., Commercial National Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Pittsburg Spiral Wire Hoop Co. (Spiral), Pittsburg, Pa.

***Hoppers (Clay)**

CANTON BOILER & ENGINEERING Co., Canton, O. (See adv. index, end of book)

Hoppers for Power Plants

Pollock, Wm. B. Co. (Large Capacity), Youngstown, O.

Hoppers (Grain)

(See Hoppers, Loading)

Hoppers (Loading)

Barnard & Leas Mfg. Co. (On Trucks, for Grain, etc.), Moline, Ill.
 Briggs Labor Saving Specialty Co. ("Lightning," for Stone, Sand, Coal & Coke), Waterloo, Iowa
 Dodge Mfg. Co., Mishawaka, Wis.
 Pearson Mfg. Co. (Portable, for Agricultural Purposes), Edwardsville, Kans.
 Prims Machinery Co. (Grain Hoppers), Battle Creek, Mich.
WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

Horn Blowers (Foot)

King Dodo Horn Co., Piqua, Ia.
 Pneumatic Tire Protector Co., 14 St. Clair, Dayton, O.

Horns (Automobile)

Automobile Supply Mfg. Co. ("Consone," "Sonora"), 139 Emerson pl., Brooklyn, N. Y.
 Echo Horn Co. ("Echo"), Cleveland, O.
 Funke, A. H., 83 Chambers, New York
 Gabriel Horn Mfg. Co., Cleveland, O.
 Hutchison Electric Horn Co., 1 Madison av., New York
 Miller, Chas. E. (Imported), 97 Reade, New York
 Motor Car Equipment Co., 55 Warren, New York
 Post & Lester Co. ("Voller"), Hartford, Conn.
 Riley-Klotz Mfg. Co., 19 Mulberry, Newark, N. J.
 Stevens & Co. ("Esco"), 99 Chambers, New York
 Tripari Bros., 372 Broome, New York
 Twentieth Century Mfg. Co. ("Twentieth Century"), 19 Warren, New York
 Willis, E. J. Co., 10 Park pl., New York

Horns (Electrical)

Holtzer-Cabot Electric Co., Brookline, Mass.

Horns (Fog)

(See also Whistles, Automobile & Motor Boat)
 Dover Stamping & Mfg. Co. ("Dover"), Cambridge, Mass.
 Funke, A. H., 83 Chambers, New York
 Hutchison Electric Horn Co., 1 Madison av., New York
 Lothrop, L. D., Gloucester, Mass.
 Motor Car Equipment Co., 55 Warren, New York
 Willis, E. J. Co., 10 Park pl., New York

Horse Collars

Given, R. & Son Co. (Pneumatic), Sidney, O.
 Thomson, Alex (Steel Hameless), Fitchburg, Mass.

Horse Measurers

Smith, S. O., 24 Prospect, Newark, N. J.

Horse Powers

(See also Horse Powers, Tread; also Powers, Dog, Sheep, Etc.; also Horse Powers, Contractors')

Alamo Iron Works, San Antonio, Tex.
 Advance Thresher Co., Battle Creek, Mich.
 Andes, W. D. & Son, Leacock, Pa.
 Aultman & Taylor Machinery Co., Mansfield, O.
 Barnard & Leas Mfg. Co., Moline, Ill.
 Bell, C. S. Co., Hillsboro, O.
 Belle City Mfg. Co. (Sweep), Racine, Wis.
 Bodley Wagon Co., Memphis, Tenn.
 Case, J. I. Threshing Machine Co., Racine, Wis.
 Cardwell Machine Co., Richmond, Va.
 Challenge Co. (Sweep), Batavia, Ill.
 Collins Plow Co. (4 to 6 Horse Triple Geared), Quincy, Ill.
 Contractors' Plant Mfg. Co., 127 Erie, Buffalo, N. Y.
 Ellis Keystone Agricultural Works (Lever, Iron Frame), Pottstown, Pa.
 Eureka Bark Mills Co., Lancaster, Pa.
 Farquhar, A. B. Co., York, Pa.
 Fouts, Oliver H., Richmond, Ind.
 Freeman S. & Sons Mfg. Co. (Sweep & Overhead), Racine, Wis.
 Gehl Bros. Mfg. Co., West Bend, Wis.
 Geiser Mfg. Co., Waynesboro, Pa.
 Globe Foundry & Machine Co., Sheboygan, Wis.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Gray's A. W. Sons, Middletown, Vt.
 Greenville Implement Co., Greenville, Mich.
 Harrison Machine Works, Belleville, Ill.

Heebner & Sons, Lansdale, Pa.
 Hildreth Bros., Harvard, Mass.
 Howell, R. R. & Co., Minneapolis, Minn.
 Huber Mfg. Co., Marion, O.
 International Harvester Co. of America, Chicago, Ill.

Keystone Farm Machine Co., York, Pa.
 Kline, Lewis T., Alpena, Mich.
 Lehr Agricultural Co., Fremont, O.
 Lyon Iron Works, Greene, N. Y.
 McLean, J. H. Co., Canton, O.
 Marseilles Mfg. Co. (And Jacks), Marseilles, Ill.
 Messinger Mfg. Co., Tatamy, Pa.
 Myers, F. E. & Bro., Ashland, O.
 New Winona Mfg. Co. ("Diamond Winona"), Winona, Minn.

Nichols & Shepard Co. (Steel Frame), Battle Creek, Mich.
 Northwest Thresher Co., Stillwater, Minn.
 Portable Elevator Mfg. Co., Bloomington, Ill.
 Rowell, I. B. Co., Menomonee Falls, Wis.
 St. Albans Foundry & Implement Co. (Sweep & Tread), St. Albans, Vt.

Salem Iron Works, Salem, N. C.
 Sandwich Mfg. Co. ("Samson," Sweep), Sandwich, Ill.
 Smith & Pomeroy Wind Mill Co., Kalamazoo, Mich.

Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
 Stover Mfg. Co., Freeport, Ill.
 Warner Elevator Mfg. Co., Warner, Ill.
 Wenzelman Mfg. Co., Galesburg, Ill.
 Wilder-Strong Implement Co., Monroe, Mich.

*Horse Powers (Contractors')

AMERICAN HOIST & DERRICK CO. (Duplex Geared, etc.), St. Paul, Minn. (See adv. index & branch offices, end of book)
DOBBIE FOUNDRY & MACHINE CO. Niagara Falls, N. Y., & 82 Warren, New York. (See adv. index & branch offices, end of book)

Horse Powers (Tread)

Appleton Mfg. Co., Batavia, Ill.
 Belle City Mfg. Co., Racine, Wis.
 Ellis Keystone Agricultural Works, Pottstown, Pa.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Gowanda Agricultural Works Co. (Dog or Sheep Power), Gowanda, N. Y.
 Messinger Mfg. Co. ("The Reynolds" Horse or Baby), Tatamy, Pa.
 St. Albans Foundry & Implement Co., St. Albans, Vt.
 Sandwich Mfg. Co., Sandwich, Ill.
 Smalley Mfg. Co. (Sweep), Manitowoc, Wis.
 Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
 Star Mfg. Co., Carpentersville, Ill.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Whitman Agricultural Co., St. Louis, Mo.

Horse Shoe Calks

(See Toe Calks, Steel)

Hose (Acid)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
 Electric Hose & Rubber Co., Wilmington, Del.
 Goodrich, B. F. Co., Akron, O.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

Hose (Air Brake)

Acme Rubber Mfg. Co., Trenton, N. J.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory: Cambridgeport, Mass.
 Chicago Rubber & Belting Co., 312 Dearborn, Chicago, Ill.
 Cincinnati Rubber Mfg. Co., Cincinnati, O.
 Continental Rubber Works, Erie, Pa.
 Crescent Belting & Packing Co., Trenton, N. J.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
 Electric Hose & Rubber Co., Wilmington, Del.
 Empire Rubber Mfg. Co., 60 Reade, New York, & Trenton, N. J.
 Goodrich, B. F. Co., Akron, O.
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
 Hamilton Rubber Co., Trenton, N. J.
 Home Rubber Co., Trenton, N. J.
 Mechanical Rubber Co., 73 Reade, New York
 New Jersey Car Spring & Rubber Co., Jersey City, N. J.

New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
 New York Rubber Co., 84 Reade, New York
 Peerless Rubber Co., 16 Warren, New York
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Republic Rubber Co., Youngstown, O.
 Revere Rubber Co., 77 Bedford, Boston, Mass.
SAYEN, OSGOOD, Arcade bldg., Phila., Pa. (See adv. index, end of book)
 Sprague Electric Co., 527 W 34th, New York
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co., Jersey City, N. J.
 Waterbury Rubber Mfg. Co., 75 Warren, New York, & Waterbury, Conn.

Hose (Air, Pneumatic Hammer, Etc.)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory: Cambridgeport, Mass.
 Cincinnati Rubber Mfg. Co., Cincinnati, O.
 Cleveland Pneumatic Tool Co. ("Superior," "Veri-Best"), 6410 Hawthorne av., Cleveland, O.

Continental Rubber Works, Erie, Pa.
DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
 Electric Hose & Rubber Co., Wilmington, Del.
 Goodrich, B. F. Co., Akron, O.
 Home Rubber Co., Trenton, N. J.
INGERSOLL - RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Revere Rubber Co., 77 Bedford, Boston, Mass.
SAYEN, OSGOOD ("Sayen's" Stay There Armor), Arcade bldg., Phila., Pa. (See adv. index, end of book)
 Voorhees Rubber Mfg. Co. ("Boreas"), Jersey City, N. J.
 Whitehead Bros. Rubber Co., Trenton, N. J.

*Hose (Braided)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Hose (Brewers')

(See Hose, Garden, Steam, Mill, Etc.)

Hose Carriages & Carts

Abbot-Downing Co., Concord, N. H.
 American Fire Apparatus Co., 1 Madison av., New York
 American-LaFrance Fire Engine Co., Elmira, N. Y.
 Goulds Mfg. Co., Seneca Falls, N. Y.
 Hayward, S. F. & Co., 20 Warren, New York
 New Departure Mfg. Co., Bristol, Conn.
 Nott Fire Engine Co., Minneapolis, Minn.
 Reading Fire Apparatus Works, Reading, Pa.
 Stewart, A. F. & S. C., Rochester, N. Y.
 Wirt & Knox Mfg. Co., 22 N 4th, Phila., Pa.
 Woodhouse Mfg. Co., 50 W B'way, New York

Hose (Chemical Engine)

Electric Hose & Rubber Co., Wilmington, Del.

Hose Connections (High Pressure)

Sherwood Mfg. Co. (For Steam or Water), Buffalo, N. Y.

Hose (Corrugated Tender)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory: Cambridgeport, Mass.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
 Goodrich, B. F. Co., Akron, O.
 Home Rubber Co., Trenton, N. J.

Morgan & Wright (Inc.), ("Morganite" Steam), Detroit, Mich.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)
 Revere Rubber Co., 77 Bedford, Boston, Mass.
SAYEN, OSGOOD, Arcade bldg, Phila. Pa. (See adv. index, end of book)
 Waterbury Rubber Mfg. Co. (Also "Sphincter," Grip Steel Armored), 75 Warren, New York

Hose (Cotton)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory: Cambridgeport, Mass.
 Clark Hose Co. (Fire), Maiden, Mass.
 Consolidated Rubber Co., Trenton, N. J.
 Continental Rubber Works, Erie, Pa.
 Crescent Belting & Packing Co., Trenton, N. J.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Empire Mfg. Co. (Cotton Rubber Lined), Lockport, N. Y.
 Empire Rubber Mfg. Co. (Rubber Lined), Trenton, N. J., & 60 Reade, New York
 Eureka Fire Hose Co., 13 Barclay, New York Works, Jersey City, N. J.
 Goodrich, B. F. Co., Akron, O.
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
 Hamilton Rubber Mfg. Co., Trenton, N. J.
 Home Rubber Co., Trenton, N. J.
 Manhattan Rubber Mfg. Co., 18 Vesey, New York
 Mechanical Rubber Co. (Rubber), 73 Reade, New York
 Mineralized Rubber Co., 18 Cliff, New York
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
PENNSYLVANIA RUBBER CO. ("Columbia," "Pennsylvania" Rubber Lined), Jeannette, Pa. (See adv. index & branch offices, end of book)
 Revere Rubber Co. (Rubber Lined, etc.), 77 Bedford, Boston, Mass.

Stokes, Joseph Rubber Co., Trenton, N. J.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co. (Marline & Cotton Woven Cover), Jersey City, N. J.
 Waterbury Rubber Mfg. Co. (Rubber Lined), 75 Warren, New York

*Hose Covering

BOSTON BELTING CO. (Cotton, Marline, Wire), 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Hose (Fire)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Boston Coupling Co. ("Reliance" Cotton Light and Heavy, etc.), Boston, Mass.
 Boston Woven Hose & Rubber Co., Executive Office & Factory: Cambridgeport, Mass.
 Callahan, Cornelius Co. (Cotton), Boston, Mass.

HOSE

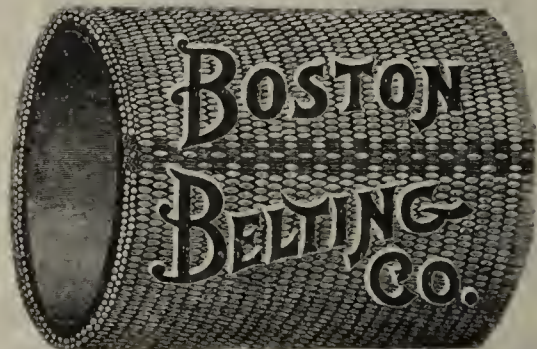
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TRADE MARK

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Chicago Fire Hose Co. (Cotton Rubber Lined), 54 La Salle, Chicago, Ill.
 Cincinnati Rubber Mfg. Co. (Rubber), Cincinnati, O.
 Clark Hose Co. (Cotton & Linen), Malden, Mass.
 Consolidated Rubber Co., Trenton, N. J.
 Continental Rubber Works, Erie, Pa.
DIAMOND RUBBER CO., Akron, O.
 (See adv. index, end of book)
 Empire Mfg. Co. (Cotton Rubber Lined), Lockport, N. Y.
 Empire Rubber Mfg. Co. (Cotton, Rubber Lined, etc.), Trenton, N. J., & 60 Reade, New York
 Eureka Fire Hose Co. (Cotton, Rubber Lined; also Linen, Plain & Rubber Lined), 13 Barclay, New York Works, Jersey City, N. J.
 Fabric Fire Hose Co., Duane & Church, New York
 Goodrich, B. F. Co. ("Marlin" Woven Cotton, Rubber Lined, etc.), Akron, O.
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
 Hamilton Rubber Mfg. Co., Trenton, N. J.
 Home Rubber Co., Trenton, N. J.
 Hayward, S. F. & Co., 39 Park Pl., New York
 Jewell Belting Co., Hartford, Conn.
 Manhattan Rubber Mfg. Co., 18 Vesey, New York
 Mechanical Rubber Co., 73 Reade, New York
 Mercer Rubber Co., Trenton, N. J.
 Mineralized Rubber Co., 18 Cliff, New York
 Multiple Woven Hose & Rubber Co. ("Blue Moore," "Tri-Moore," "Blue Ribbon" & "Trump"), Worcester, Mass.
 New Jersey Car Spring & Rubber Co. ("Tubor," Rubber Lined, Cotton), Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.), (Rubber & Cotton), 91 Chambers, New York
 Niedner, Chas. (Linen), Malden, Mass.
PENNSYLVANIA RUBBER CO. ("Columbia," "Pennsylvania," Cotton, Rubber Lined; also Linen, etc.), Jeannette, Pa.
 (See adv. index & branch offices, end of book)
 Republic Rubber Co., Youngstown, O.
 Revere Rubber Co., 77 Bedford, Boston, Mass.
ROSSENDALE-REDDAWAY BELTING & Hose Co. (Linen), Newark, N. J.
 (See adv. index, end of book)
SAYEN, OSGOOD, Arcade bldg., Phila., Pa. (See adv. index, end of book)
 Stokes, Jos. Rubber Co., Trenton, N. J.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co., ("Rex," "Marshall," Cotton Rubber), Jersey City, N. J.
 Waterbury Rubber Mfg. Co., 75 Warren, New York, & Waterbury, Conn.
 Whitehead Bros. Rubber Co., Trenton, N. J.

Hose (Flexible Metallic)

American Metal Hose Co., 173 Lafayette, New York
 Pennsylvania Flexible Tubing Co. (Copper or Steel, High Pressure, with Asbestos Interlining), 1305 Arch, Phila., Pa.
 Voorhees Rubber Mfg. Co. (Armor), Jersey City, N. J.

Hose (Flexible Steel Armored)

Sprague Electric Co. (Steam or Air), 527 W 34th, New York

Hose (Garden, Steam, Mill, Etc.)

(See also Hose, Fire)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory: Cambridgeport, Mass.
 Buckeye, J. W. Rubber Co. (Invincible Rubber Wound with Steel Wire), 69 Warren, New York
CARPENTER, GEO. B. & CO. (Mfrs. Agts.), 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Cincinnati Rubber Mfg. Co., Cincinnati, O.
 Cleveland Rubber Works, Cleveland, Ohio
 Consolidated Rubber Co., Trenton, N. J.
 Continental Rubber Works, Erie, Pa.
 Crescent Belting & Packing Co., Trenton, N. J.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
 Dunbar, J. A. Mfg. Co., Northville, Mich.
 Electric Hose & Rubber Co., Wilmington, Del.
 Empire Mfg. Co. (Cotton Rubber Lined), Lockport, N. Y.

Empire Rubber Mfg. Co., Trenton, N. J., & 60 Reade, New York
 Eureka Fire Hose Co. (Cotton & Linen), 13 Barclay, New York
 Goodrich, B. F. Co., Akron, O.
 Gorham Rubber Co., San Francisco, Cal.
GRAMMES, L. F. & SONS (Jobbers), Allentown, Pa. (See adv. index, end of book)
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
 Home Rubber Co. (Rubber), Trenton, N. J.
 Knowlton, Geo. W. Rubber Co., 88 Broad, Boston, Mass.
 Manhattan Rubber Mfg. Co., 18 Vesey, New York
 Mechanical Rubber Co. (Rubber), 73 Reade, New York
 National India Rubber Co., Bristol, R. I.
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
 New York Rubber Co., 84 Reade, New York
 Niedner, Chas. (Linen), Malden, Mass.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)
 Revere Rubber Co., 77 Bedford, Boston, Mass.
 Republic Rubber Co., Youngstown, O.
SAYEN, OSGOOD (Air Hose), Arcade bldg., Phila., Pa. (See adv. index, end of book)
 Stokes, Jos. Rubber Co., Trenton, N. J.
 Thermoid Rubber Co., Trenton, N. J.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co., 18 Bostwick av., Jersey City, N. J., & 18 Dey, New York
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)
 Waterbury Rubber Mfg. Co., 75 Warren, New York
 Whitehead Bros. Rubber Co., Trenton, N. J.

Hose (Linen)

Bay State Belting Co., 43 High, Boston, Mass.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory: Cambridgeport, Mass.
 Callahan, C. Co., Boston, Mass.
 Clark Hose Co. (Fire), Malden, Mass.
 Empire Mfg. Co., Lockport, N. Y.
 Empire Rubber Mfg. Co. (Unlined), Trenton, N. J., & 60 Reade, New York
 Eureka Fire Hose Co. (Plain or Rubber Lined), 13 Barclay, New York Works, Jersey City, N. J.
 Fabric Fire Hose Co., Duane & Church, New York
 Hayward, S. F. & Co., 39 Park pl, New York
 Manhattan Rubber Mfg. Co., 18 Vesey, New York
 Niedner, Chas. (Fire), Malden, Mass.
 New Jersey Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
PENNSYLVANIA RUBBER CO. (Underwriters'), Jeannette, Pa. (See adv. index & branch offices, end of book)
 Revere Rubber Co., 63 Franklin, Boston, Mass.
ROSSENDALE-REDDAWAY BELTING & Hose Co., Newark, N. J. (See adv. index, end of book)
 Russell Mfg. Co., Middletown, Conn.
SAYEN, OSGOOD, Arcade bldg., Phila., Pa. (See adv. index, end of book)
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

*Hose (Marline Woven)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Goodrich, B. F. Co., Akron, O.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Hose Menders

American Foundry & Mfg. Co., St. Louis, Mo.
 Buffalo Specialty Co. ("Double Quick"), Buffalo, N. Y.
 Cassady-Fairbank Mfg. Co. ("Samson"), 6100 La Salle, Chicago, Ill.
 Cooper Hose Jacket Co., Minneapolis, Minn.
 Elkhart Brass Mfg. Co. (Iron), Elkhart, Ind.
 Hamblin & Russell Mfg. Co. ("Magic" Garden), Worcester, Mass.

Kohler, F. E. & Co. ("Little Wonder"), Canton, O.
 National Supply Co., 7 W Lombard, Baltimore, Md.
 Sherman, H. B. Mfg. Co., Battle Creek, Mich.
 Sommer's, John, Sons, Newark, N. J.
 Standard Brass & Iron Works, Milwaukee, Wis.
 Stortz, Jno. & Son ("Little Giant"), 210 Vine, Phila., Pa.

Hose (Pneumatic Tool)

(See Hose, Air, Pneumatic Hammer, Etc.)

Hose (Protected)

Acme Rubber Mfg. Co., Trenton, N. J.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Electric Hose & Rubber Co., Wilmington, Del.
 Goodrich, B. F. Co. ("Wire Wrap"), Akron, Ohio
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)
 Revere Rubber Co., Boston, Mass.
SAYEN, OSGOOD, Arcade bldg., Phila., Pa. (See adv. index, end of book)
 Sprague Electric Co. (Steel Armored), 527 W 34th, New York
 Voorhees Rubber Mfg. Co., Jersey City, N. J.

Hose Reels & Racks

(See Reels & Racks, Fire Hose)

Hose (Rubber)

Akron Rubber Co., Akron, O.
 Alden Rubber Co., Akron, O.
BOSTON BELTING CO. ("Niagara," "Tri-mount," "Boston," "Universal," "Imperial," "Excelsior," "Phoenix"), 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Boston Woven Hose & Rubber Co. ("Damasus," "Bull Dog," "Boston Terrier," "Dandy," "Bay State," "Tiger," "Olympia," "Invincible," "Wizard," "Leader," "Dauntless," "Vim," "Helmet," "Cowen," "Iron Brand," "Falcon," "Granger"), Cambridgeport, Mass.
 Cleveland Rubber Works, C. & P. R. R. at junction Nickel Plate R. R., Cleveland, O.
 Combination Rubber & Belting Co. ("Indestructene," "Franklin"), Bloomfield, N. J.
 Consolidated Rubber Co. ("Arion," "Duke," "Mohawk," "Sharon," "Tuckahoe," "Sultan," "Advance," "Falcon"), Trenton, N. J.
 Continental Rubber Works, Erie, Pa.
 Crescent Belting & Packing Co. ("Hercules," "Capital," "Royal Flush"), Trenton, N. J.
 Diamond Rubber Co., Akron, O.
 Electric Hose & Rubber Co., Wilmington, Del.
 Empire Rubber Mfg. Co. ("Model," "Eagle," "Monitor," "Arrow," "Merrimac"), Trenton, N. J.
 Fabric, Fire Hose Co., 68 Murray, New York
 Goodrich, B. F. Co., Akron, O.
 Goodyear Rubber Co. ("Gold Seal," "Pioneer"), 787 B'way, New York
 Gorham Rubber Co., San Francisco, Cal.
 Gutta Percha & Rubber Mfg. Co. ("Ridge-wood," "Wallabout"), 126 Duane, New York
 Hamilton Rubber Mfg. Co., Trenton, N. J.
 Home Rubber Co. ("Black Seal," "Tiger," "White Cross," "World," "N. B. O."), Trenton, N. J.
 Lake Shore Rubber Co., Erie, Pa.
 Manhattan Rubber Mfg. Co., 18 Vesey, New York
 Mechanical Rubber Co. ("Monarch," "Bengal," "Beaver," "Competition," "Superior," "White," "Chicago"), 230 Randolph, Chicago, Ill.
 Mercer Rubber Co., Trenton, N. J.
 Mineralized Rubber Co., 18 Cliff, New York
 National India Rubber Co. ("White Cross," "Neponset," "Onoko," "Pontiac," "Waukegan," "Sagamore," "Agawan," "Nokomis," "Anchor," "Seekonk," "Namquit," "Pequot," "Saranac," "Squantum," "Pomham"), Bristol, R. I.
 New Jersey Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. ("1846 Para," "Carbon," "Double Diamond"), 91 Chambers, New York
 New York Rubber Co. ("Wiccopee"), 84 Reade, New York

Peerless Rubber Mfg. Co. ("Anaconda," "Lake Side," "Blue Ribbon," "Rainbow," "Sterling," "Rellance," "American"), 16 Warren, New York

PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Quaker City Rubber Co. (Chas. A. Daniel, Prop.), 629 Market, Phila., Pa.

Republle Rubber Co. ("Sloux," "Mohoning," "Tower," "Charlot," "Hector," "Pedro," "Sanco," "Tonka"), Youngstown, O.

Revere Rubber Co. ("Glant," "Granlte," "Shawmut"), 77 Bedford, Boston, Mass.

SAYEN, OSGOOD, Arcade bldg, Phila., Pa. (See adv. index, end of book)

Stokes, Joseph Rubber Co. ("Majestic," "Celtic," "Rex," "Bristol," "Hustler"), Trenton, N. J.

Trenton Rubber Mfg. Co. ("Hercules," "Para," "White Crown"), Trenton, N. J.

United & Glohe Rubber Mfg. Co., Trenton, N. J.

Voorhees Rubber Mfg. Co. ("Bostwick," "Federal," "Pacific," "Sentinel," "Union," "Indian," "Celtic," "Saxon," "American," "Conqueror," "Contest"), Jersey City, N. J.

WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Waterbury Rubber Mfg. Co. ("Sphincter Grip"), 75 Warren, New York

Watt's, John M. Sons, 123 S 2d, Phila., Pa.

Whitehead Bros. Rubber Co. ("Competition," "Thistle," "Juno," "Clover," "Golden Rod," "Ivory," "Long Life"), Trenton, N. J.

Woven Steel Hose & Cable Co. ("Protected"), Trenton, N. J.

Hose (Suction)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Boston Woven Hose & Rubber Co., Cambridge, Mass.

Continental Rubber Works, Erie, Pa.

Empire Rubber Mfg. Co., Trenton, N. J.

Goodrich, B. F. Co. (Extra Heavy), Akron, O.

Home Rubber Co., Trenton, N. J.

PENNSYLVANIA RUBBER CO. (Steel Clad, etc.), Jeannette, Pa. (See adv. index, end of book)

SAYEN, OSGOOD, Arcade bldg, Phila., Pa. (See adv. index, end of book)

Whitehead Bros. Rubber Co. (Wire & Smooth Bore), Trenton, N. J.

*Hose (Tank)

(See Hose, Garden, Steam, Mill, Etc.)

*Hose (Wine)

PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Hose (Wire Wound)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Continental Rubber Works, Erie, Pa.

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Home Rubber Co., Trenton, N. J.

PENNSYLVANIA RUBBER CO. (Armored & Flexible Armored), Jeannette, Pa. (See adv. index & branch offices, end of book)

SAYEN, OSGOOD, Arcade bldg, Phila., Pa. (See adv. index, end of book)

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Hot Air Furnaces

(See Furnace Manufacturers, Hot Air)

Hot Water Bed for Operating Tables

Goodrich, B. F. Co., Akron, O.

Hotel Calls

(See Annunciators)

Hotel Cooking Apparatus

(See Cooking Apparatus)

Hotel-Ware (Polished Steel, Etc.)

Cleveland Stamping & Tool Co. ("Solid Steel," Polished & Tinned), Hamilton av, cor E 53d, N E, Cleveland, O.

House Numbers

(See Numbers & Letters, Metal)

House Wreckers

(See Building Materials, Second Hand)

House & Porch Trimmings, Etc.

(See Columbus, Porch, Etc.; also Corner, Base & Head Blocks; also Doors, Hardwood & Veneered; also Grille, Fret & Lattice Work; also Interior Finish, Wholesale Manufacturers; also Lumber Manufacturers; also Mouldings, Various Kinds; also Ornaments, Wood; also Sash Door & Blinds; also Stair Builders' Supplies; also Wood Turnings, Various Kinds)

Houses (Pole or Pilot)

Bissell, F. Co. ("Security"), Toledo, O.
Central Telephone & Electric Co., St. Louis, Mo.

Cook, Frank B., 240 W Lake, Chicago, Ill.

Nagel, W. G. Electric Co. ("Ready"), Toledo, Ohio
Noblett, E. J. Co., West Pullman, Chicago, Ill.
Pierce Specialty Co., Elkhart, Ind.

Hubs, Automobile (Ball & Roller Bearing)

American Ball Bearing Co., Edgewater Park, Cleveland, O.

American Ball Co., Eagle & Kinsley av, Providence, R. I.

American Die & Tool Co., Reading, Pa.

American Roller Bearing Co., South Framingham, Mass.

Ball Bearing Co., N 48th & Merion, Phila., Pa.

Bantam Mfg. Co., Bantam, Conn.

Garford Mfg. Co., Elyria, O.

Harris, E. T., 531 W. 15th, Chicago, Ill.

Jamesville Mfg. Co., Jamesville, N. Y.

Light Mfg. & Foundry Co., Union & Queen, Pottstown, Pa.

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Smith, A. O. Co., Clinton nr Park, Milwaukee, Wis.

Standard Roller Bearing Co., N 48th & Girard av, Philadelphia, Pa.

Timken Roller Bearing Axle Co., Canton, O.

Weston-Mott, Flint, Mich.

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Hullers (Clover)

Advance Thresher Co., Battle Creek, Mich.

Aultman & Taylor Machinery Co., Mansfield, Ohio

Birdsall Mfg. Co., South Bend, Ind.

Gaar, Scott & Co., Richmond, Ind.

Geiser Mfg. Co., Waynesboro, Pa.

Newark Machine Co., Newark, O.

Nichols & Shepard Co., Battle Creek, Mich.

Reeves & Co. (Feeder & Blower), Columbus, Ind.

Rumely, M. Co., La Porte, Ind.

Hullers (Coffee & Rice)

(See Rice & Coffee Hulling Machinery)

Hullers (Cotton Seed)

Cardwell Machine Co., Richmond, Va.

Carver Cotton Gin Co., East Bridgewater, Ala.

Diamond Huller Co. ("Diamond" Huller & Separator), Winona, Minn.

Livermore Foundry & Machine Co. ("Wells"), Memphis, Tenn.

Van Winkle, E. Gin & Machine Works, Atlanta, Ga.

Hullers or Blanchers (Peanut)

Lambert Food & Machine Co., Marshall, Mich.

Pennsylvania Rubber Company

JEANNETTE, PA.

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Chattanooga Implement & Mfg. Co. (Pea), East Chattanooga, Tenn.
 Chesholm, Scott, Niagara Falls, N. Y.
 Farrar Lumber Co., Dalton, Ga.
 Huber Mfg. Co., Marion, O.
 Sanders Mfg. Co. ("Dixie"), Dalton, Ga.
SPRAGUE CANNING MACHINERY
 Co. (Canners), 5 Wabash av, Chicago, Ill.
 (See adv. index, end of book)

Humidifiers (Electric)

BELL PURE AIR & COOLING CO., 90 West, New York
 Fries, Jno. W. (Electric Clean Airs for Cigar Cases, etc.), 45 Lafayette, New York

Humiditor

Brown Specialty Machinery Co. (For Radiators), Jackson boul & Clinton, Chicago, Ill.

Humidors (Cigar & Tobacco)

BELL PURE AIR & COOLING CO., 90 West, New York
MARFETTA GLASS MFG CO. (Cigar, Opal Linings), Indianapolis, Ind. (See adv. index, end of book)
 Wilke Mfg. Co., Anderson, Ind.

Humidifying Apparatus

(See Textile Machinery)

Huskers & Shredders (Corn)

Advance Thresher Co. (Eight & Twelve Roll), Battle Creek, Mich.
 Appleton Mfg. Co., Batavia, Ill.
 Clark, R. F. ("Clark"), 102 Lake, Chicago, Ill.
 Cleveland Lock Co., Cleveland, O.
 Deere & Mansur Co., Moline, Ill.
 Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
 International Harvester Co. of America, Chicago, Ill. Osborne Plant, Auburn, N. Y.
Kolling Husker & Shredder Works ("Kolling"), Arlington Heights, Ill.
 Milwaukee Hay Tool Co., Milwaukee, Wis.
 Port Huron Mfg. Co., Port Huron, Mich.
 Rosenthal Corn Husker Co., Milwaukee, Wis.
Safety Shredder Co., New Castle, Ind.
 Stevens, A. W. Co., Marinette, Wis.
 Taylor Husker & Shredder Co., Joliet, Ill.
 Wallingford Mfg. Co. (Excelsior), Wallingford, Vt.

Husking Pins

Arcade Mfg. Co. ("Pearse" Corn Husker), Freeport, Ill.
 Cleveland Lock Co. (Knife Handle), Cleveland, Ohio
 Pratt, Wm. E. Mfg. Co. ("The Pratt"), 91 Lake, Chicago, Ill.
 Smith & Davis ("Akin"), Ames, Iowa
 Standard Corn Husker Co. (Jno. C. Kanney, Prop.) (Hand Huskers), Greenspring, Ohio.

Hydrants

Clark, L. P. & Sons, 419 N Front, Baltimore, Md.
 Colwell Lead Co., 63 Centre, New York
 Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
 Dean Bros. Steam Pump Works, Indianapolis, Ind.
 Douglas, W. & B., Middletown, Conn., & 83 John, New York
 Edwardsville Brass Co. (Yard), Edwardsville, Ill.
 Fales & Jenks Machine Co., Pawtucket, R. I.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Haydenville Co. ("Lewis"), Haydenville, Mass.
 Hays Mfg. Co. ("Original McNamara" & "Mer-tens"), Erie, Pa.
 Humphreys Machine Co., Keene, N. H.
 Illinois Malleable Iron Co., 515 Diversey boul, Chicago, Ill.
 Kemp, C. M. Mfg. Co. (Yard), 401 E Oliver, Baltimore, Md.
 Kennedy Valve Mfg. Co., Elmira, N. Y.
 Knight & Jilison Co., Indianapolis, Ind.
 Kupferle, John C. Foundry Co. (Yard & Wall), St. Louis, Mo.
 Lacy Mfg. Co., Los Angeles, Cal.
 Michigan Brass & Iron Works, Detroit, Mich.
 Nelson, N. O. Mfg. Co., St. Louis, Mo.
 Nichol, Thos. J. & Co., Pearl & Ludlow, Cincinnati, O.

Owensboro Hydrant Co., Owensboro, Ky.
 Pleuger & Henger Mfg. Co. ("Empire" & "National"), 11th & Hebert, St. Louis, Mo.
 Quirlin, Jno. & Bro. (Non-freezing, Street), St. Clair, Pa.
 Rumsey & Co. (Ltd.) ("Kaiser," "Favorite" & "Eagle"), Seneca Falls, N. Y.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.

Hydrants (Fire)

American Foundry & Mfg. Co., St. Louis, Mo.
 Beaumont, Richard (Est. of), Kankakee, Ill.
 Bourbon Copper & Brass Works, 620 E Front, Cincinnati, O.
 Camden Iron Works, 400 Chestnut, Phila., Pa., & Camden, N. J.
 Cayuta Mfg. Co. ("K-U-T-A"), Sayre, Pa.
 Chapman Valve Mfg. Co., Indian Orchard, Mass.
 Coffin Valve Co., Neponset, Boston, Mass.
CORNELL & UNDERHILL, 47 Beach, New York. (See adv. index, end of book)
 Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
 Drummond, M. J. & Co., 182 B'way, New York
 Eddy Valve Co., Waterford, N. Y.
 Eley, Philip Sons Co. ("Eley"), Bayonne, N. J.
 Fox, Jno. & Co. (Mfrs.' Agts.) 253 B'way, New York
 Garratt, W. T. & Co. (Inc.), Fremont & Natoma, San Francisco, Cal.
 Glamorgan Pipe & Foundry Co., Lynchburg, Va.
HOLLY MFG. CO., 115 B'way, New York. (See adv. index, end of book)
 Howard Iron Works, Buffalo, N. Y.
 Kennedy Valve Mfg. Co., Elmira, N. Y.
 Kupferle, Jno. C. Foundry Co. ("Total Eclipse"), St. Louis, Mo.
 Loetzer Valve & Mfg. Co. ("Loetzer" Compression), Menroeton, Pa.
 Ludlow Valve Mfg. Co., Troy, N. Y.
 McLean, Jno. ("Ayers"), 440 Water, New York
McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)
 Macgungie Brass & Mfg. Co. ("Niagara," "Peerless" & "Anti-Freezing"), Macungie, Pa.
MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
 Norwood Engineering Co. ("Holyoke"), Florence, Mass.
 Owensboro Hydrant Co., Owensboro, Ky.
 Pittsburg Mfg. Co. ("Ludlow"), 28th & Railroad, Pittsburg, Pa.
 Pratt & Cady Co., Hartford, Conn.
 Rensselaer Mfg. Co. ("Corey"), Troy, N. Y.
 Rumsey & Co. (Inc.), ("Kaiser," "Favorite" & "Eagle"), Seneca Falls, N. Y.
 Smith, A. P. Mfg. Co., Newark, N. J.
 South Park Foundry & Machine Co., St. Paul, Minn.
 Stephens, Roe Mfg. Co., Detroit, Mich.
 Thompson, J. & Co., c Van Horn & Sophia, Phila., Pa.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Watrous Engine Works Co., St. Paul, Minn.
 Wood, R. D. & Co. ("Mathews"), 400 Chestnut, Phila., Pa.

Hydrants (Fire Boat)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Hydrants (Fire, Crane Attachment)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Hydrate of Alumina

Merrimac Chemical Co., Boston, Mass.
 Pennsylvania Salt Mfg. Co., Phila., Pa.

Hydraulic Machinery

(See Hydraulic Pumps; also Hydraulic Presses; also Hydraulic Rams; also Hydraulic Jacks; also Hydraulic Cranes; also Hydraulic Rly-eters)

Hydraulic Rams

Barnes Mfg. Co., Mansfield, O.
 Columbia Steel Co., Portland, Ore.
 Columblana Pump Co., Columblana, O.
 Comstock, Geo. S. ("Kilne"), Mechanicsburg, Pa.
DEMING CO., Salem, O. (See adv. index, end of book)
 Douglas, W. & B., 83 John, New York, & Middletown, Conn.
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Garratt, W. T. & Co. (Inc.), 142 Fremont, San Francisco, Cal.
 Gawthrop, Allen, Jr., 100 W 4th, Wilmington, Del.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Humphreys Mfg. Co., Mansfield, O.
 Hanson & Rhodes, 157 W 29th, New York
 Kline, Jas. M., Beavertown, Pa.
 Myers, F. E. & Bro., Ashland, O.
 Niagara Hydraulic Engine Co., 140 Nassau, New York

Pelton Water Wheel Co., Monadnock bldg., San Francisco, Cal., & 90 West, New York
 Power Specialty Co. ("Foster" & "Rife's"), 111 B'way, New York
 Rife's Hydraulic Engine Mfg. Co., 111 B'way, New York
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Trahern Pump Co., Rockford, Ill.
 Union Mfg. Co., New Britain, Conn.
 Ward Pump Co., Rockford, Ill.

Hydro Carbon Lamps

(See Lamps, Incandescent Gas)

Hydro Carbons (Miners & Refiners)

Raven Mining Co. ("Kapak," Miners of both Elaterite & Gilsonite), 204 Dearborn, Chicago, Ill.

Hydrometers

Du Vivier, Ernest H., 30 Church, New York
 Electric Storage Battery Co., 19th & Allegheny av, Philadelphia, Pa.
 Haas, Philip Co. ("Haas," etc.), 429 E 3d, Dayton, O.
 Hoehn, R. Co., 83 Chambers, New York
 Hohman & Maurer Mfg. Co., 29 Elizabeth, Rochester, N. Y.
NATIONAL GAUGE CO. (For Salt, Ammouia, etc.), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
 Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Pennelli, Peter, 194 William, New York.
 Schaeffer & Budenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.
 Storage Battery Supply Co., 239 E 27th, New York
 Tagliabue, Chas. J. Mfg. Co., 53 Fulton, New York
 Tagliabue, Giuseppe, 302 Pearl, New York
 Taylor Instrument Co., Rochester, N. Y.
 Vuille, Chas. A., Huntingdon, Pa.
 Wagner, Carl, 1061 N Albany, Chicago, Ill.
 Wagner Glass Works (Also Barometers), 965 E 132d, New York
 Watertown Thermometer Co., Watertown, N.Y.
 Weinhausen, Henry, 22 N William, New York
 Welskoff, A., 127 Market, Chicago, Ill.

Hyposulphate Soda

Cochrane Chemical Co., Boston, Mass.
 Merrimac Chemical Co., Boston, Mass.
 Thomson Chemical Co., Baltimore, Md.

Ice Breakers

(See also Ice Crushing Machines)

Allman Gas Engine & Machine Co. ("Champion"), 29 Sullivan, New York
AMERICAN TAP & DIE CO. (Hand, Greenfield, Mass. (See adv. index, end of book)
 Blakeslee, G. S. & Co. ("Reinhold" Choppers), 325 Dearborn, Chicago, Ill., & 260 West B'way, New York
 Davenport Ice Chipping Machine Co. ("Little Giant" Crusher), Davenport, Iowa
 Dilg Mfg. & Trading Co. ("Champion"), 663 E 163d, New York
 Harrison Safety Boiler Works ("Creasey"), 17th, below Allegheny av, Phila., Pa.
 Hartig Standard Gas Engine Co., 14 Commercial, Newark, N. J.
 Hiles, C. A. & Co. (For Family Use), 14th & Western av, Chicago, Ill.
 Maag-Wahman Co., Baltimore, Md.
 Stortz, John & Son (Hand), 210 Vine, Phila., Pa.
 Watkins, Jas. Y. & Son (Inc.), 16 Catharine, New York

Ice Can Fillers

Burns, Jas. F., 47 Hutchinson, Phila., Pa.
 Great Lakes Engineering Works (For Mfrs. of Artificial Ice, Automatic), Detroit, Mich.
 Wolf, Fred W. Co. (For Mfrs. of Artificial Ice), 141 Rees, Chicago, Ill.

Ice Cans for Artificial Ice

EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)
 Great Lakes Engineering Works, Detroit, Mich.
 Klechler Mfg. Co., Cincinnati, O.
KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)
 Ohio Galvanizing & Mfg. Co., Niles O.
 Ruemmell-Dawley Mfg. Co., 3900 Chouteau av., St. Louis, Mo.
SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)
 Triumph Ice Machine Co., 610 Baymiller, Cincinnati, O.
 Vogt, Henry, Machine Co., Louisville, Ky.
 Wall, P. Mfg. Supply Co., North Side, Pittsburg, Pa.
 Wolf, Fred W. Co., 141 Rees, Chicago, Ill.
 Wulff, W. C. & Co., Louisville, Ky.

Ice Cream Freezers

(See Freezers, Ice Cream, Etc.)

Ice Dumps

Triumph Ice Machine Co., 610 Baymiller, Cincinnati, O.
 Wolf, Fred W. Co. (For Artificial Ice), 141 Rees, Chicago, Ill.

Ice Machines (Portable)

(See Ice Machines, Portable, under the heading of Machinery)

*Ice Tanks & Pans

CANTON BOILER & ENGINEERING Co., Canton, O. (See adv. index, end of book)
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)
REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)

*Icing Systems (Refrigerator Car)

JEFFREY MFG. CO., Columbus, O. (See adv. index, end of book)

*Idlers (Grooved)

JEFFREY MFG. CO., Columbus, O. (See adv. index, end of book)

Igniters (Gas & Gasoline Engine)

(Magnetos & Dynamos)

American Coil Co. ("Little Wonder"), Foxboro, Mass.
 American Electric Fuse Co. ("American"), Muskegon, Mich.
 Bosch Magneto Co. ("Bosch" Magnetos), 160 W 56th, New York
 Champion, Albert Co., ("Glanoli"), Boston, Mass.
 Chicago Coil Co. ("Cartridge"), 36 La Salle, Chicago, Ill.
 Connecticut Telephone & Electric Co. (Inc.), (Magnetos), Meriden, Conn.
 D. K. Electric Co. ("Duncan"), St. Louis, Mo.
 Dayton Electrical Mfg. Co. ("Apple"), Dayton, O.
 Elbridge Electrical Mfg. Co., Elbridge, N. Y.
 Fawn River Mfg. Co., Constantine, Mich.
 Geizler Bros. (Non-Sulphating Storage Battery Igniter), 514 W 57th, New York
 Goodson Electric & Co., Providence, R. I.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Henricks Novelty Co., Indianapolis, Ind.
 Hercules Electric & Mfg. Co. (Wizard Spark Generator), Indianapolis, Ind.
 Herz & Co. ("Herz" High Tension Magneto), 203 Lafayette, New York
 Hess-Bright Mfg. Co. (Magnetos), Fairmount av & 21st, Phila., Pa.
 Holley Bros. Co. (Holley), 668 Beaubien, Detroit, Mich.
 Holtzer-Cabot Electric Co. ("The H-C Magneto"), Brookline, Mass.
 Igniter Appliance Co., Cleveland, O.
 K-W Ignition Co. ("Vim"), Cleveland, O.
 Kendrick & Davis, Lebanon, N. H.

Kent Atwater Mfg. Works, 46 N 6th, Phila., Pa.
 Knoblock-Heldeman Mfg. Co., South Bend, Ind.
 Knox-Dickey Telephone Mfg. Co., Portsmouth, Ohio
 Marine Launch Igniting Co. ("A. R. C"), Watkins, N. Y.
 Mavity-Sleeper Co. ("M & S," also Automobile Magneto), Fowler, Ind.
 Metal Specialties Mfg. Co. ("G. & M." Compression), 24 W. Randolph, Chicago, Ill.
 Midland Supply Co. ("Wilson"), Chicago, Ill.
 Motsinger Device Mfg. Co. ("Auto Sparker"), Pendleton, Ind.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Orswell Igniter Co., 95 Milk, Boston, Mass.
 Perfection Magneto Co., Anderson, Ind.
 Pittsfield Spark Coil Co., Pittsfield, Mass.
 Remy Electric Co., Anderson, Ind.
 Roche, Wm., Jersey City, N. J.
 Schug Elec. Mfg. Co. ("Schug" Ignition Storage Battery), Detroit, Mich.
 Splittdorf, C. F., 261 Walton av., New York
 Standard Motor Construction Co., Jersey City, N. J.
 Stecker Elec. & Machine Co., Detroit, Mich.
 Tritt Electric Co., Union City, Ind.
 Witherbee Igniter Co. ("Volta" & Witherbee Storage Battery Igniter), 1876 B'way, New York

Ignition Apparatus

(See Batteries; also Coils, Spark; also, Plugs, Spark; also Igniters, Gas & Gasoline Engine)

Illuminating Tile

(See Vault & Sidewalk Lights, Plain & Prismatic)

Illuminators (Oven)

Robson, Chas. & Co. ("Robson"), 8th & Washington av., Phila., Pa.

Incinerators (Garbage)

Decalre Incinerator Co. ("Decalre"), Hopkins, Minn.
 National Equipment Co. (Inc.) ("Branch"), 211 N 7th, St. Louis, Mo.

Inclinators

Carboy Inclinor Co. (For Platers, Metal Workers, etc.), 1328 Columbia av., Philadelphia, Pa.

Incline Planes

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
FLORY, S. MFG. CO., Bangor, Pa. & 149 B'way, New York. (See adv. index, end of book)
GENERAL ELECTRIC CO. (Electric), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Milholland, J. & J. B. Co., 718 5th av., Pittsburg, Pa.
 Scaife Foundry & Machine Co., Pittsburg, Pa.

*Inclinometers

STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Increasesers (Drainage)

National Tube Co., Pittsburg, Pa.

Indian Clubs

Estes, E. B. & Sons, 74 Warren, New York
 Hellenburg & Son, Coldwater, Mich.
 Narragansett Machine Co., Providence, R. I.
 Sandusky Tool Co., Sandusky, O.

*Indicator Attachment

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Indicators (Center)

Lindholm, A. C. (Rotary), New Haven, Conn.
 Slocumb, J. T. Co., Providence, R. I.

Indicators (Combination)

(For Testing the Truth of a Hole or Shaft)
 Slocumb, J. T. Co. (For Testing the Truth of a Hole or Shaft), Providence, R. I.

Indicators (Combined Gas & Steam)

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
 Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

Indicators (Course)

Hand, John, & Sons ("Faulkner-Ellis"), 222 Walnut, Philadelphia, Pa.

Indicators (Electric Speed)

Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.
 Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Indicators (Elevator)

ELEVATOR SUPPLY & REPAIR CO. ("Armstrong"), 76 W. Monroe, Chicago, Ill. (See adv. index & branch offices, end of book)
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
 Herzog Telesene Co., 51 W 24th, New York
 Somerville, John (Fluid), 156 W 30th, New York
STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Indicators (Fuel Level)

Auto Improvement Co. ("Ever Ready"), 316 Hudson, New York
 Auto Pump Co., Springfield, N. Y.
 Blood Bros. Machine Co., 144 N Edwards, Kalamazoo, Mich.
 Boston Auto Gage Co. ("Triumph"), 8 Walnut, Boston, Mass.
 Connecticut Telephone & Electric Co. (Inc.), Meriden, Conn.
 Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
 Jones, Joseph W., 127 W 32d, New York
 Kinsey Mfg. Co., 1126 E 3d, Dayton, O.
 Ohio Brass Co., Mansfield, O.
 Schaeffer & Budenberg Mfg. Co. ("S. & B."), 963 Kent av., Brooklyn, N. Y.
 Turner Brass Works, 65 Mich. av., Chicago, Ill.

Indicators (Gas Engine)

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
 Schaeffer & Budenberg Mfg. Co. ("Thompson" & "S. & B."), 963 Kent av., Brooklyn, N. Y.
 Trill Indicator Co., Corry, Pa.

Indicators (Helm)

Cory, Chas. & Son, 278 Division, New York
 Hyde Windlass Co., Bath, Me.

*Indicators (Hydraulic)

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

Indicators (Lathe)

Brown & Sharpe Mfg. Co., Providence, R. I.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Indicators (Lightning)

Bajohr, Carl, 4055 Keokuk, St. Louis, Mo.

Indicators (Log Setting)

Filer & Stowell Co., Home Office, Milwaukee, Wis.
Lane Mfg. Co., Montpelier, Vt.

Indicators (Low Water)

(See Alarms, Low Water)

Indicators (Machine)

Norton Grinding Co. (For Testing Truth & Alignments of Machine Parts), Worcester, Mass.

Indicators (Polarity)

Dale Co., 9th av & 13th, New York
Keystone Electrical Instrument Co. (Potential & Current), 901 Montgomery av., Phila., Pa.
Steele Glass Co., 622 Locust, Phila., Pa.
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Indicators (Speed)

American Steam Gauge & Valve Mfg. Co. ("Amer. Thompson"), Boston, Mass.
Ashcroft Mfg. Co., 85 Liberty, New York
Ashton Valve Co., 271 Franklin, Boston, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bowsher, N. P. Co. (or Motion for Water Power, etc.), South Bend, Ind.
Braunsdorf-Mueller Co., Ellizabeth, N. J.
Brown, Edward & Son (Recording Revolution with Chart), 313 Walnut, Phila., Pa.
CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Disston, Henry & Sons (Inc.), Tacony, Philadelphia, Pa.
Durant, Walter N. Co., Milwaukee, Wis.
Emerson, Smith & Co., Beaver Falls, Pa.
Grant Mfg. & Machine Co. (Revolution Counters), Bridgeport, Conn.
Greene, Tweed & Co., 109 Duane, New York
INDUSTRIAL INSTRUMENT CO. (For Speed & Stroke), Foxboro, N. Y. (See adv. index & branch offices, end of book)
Lintner, Wm. T., Gloversville, N. Y.
Marsh, Jas. P. & Co., 224 Washington, Chicago, Ill.
Mixer, J. W. Saw Tool Co. ("Mixer"), Plymouth, Mass.
NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
National Steam Specialty Co., 230 E Washington, Chicago, Ill.
Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.
Schuchardt & Schutte ("Initiative"), 90 West, New York
Star Brass Mfg. Co., Boston, Mass.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)
Uehling Instrument Co., Passaic, N. J.
United States Gauge Co., 67 Wall, New York
Veeder Mfg. Co. ("Veeder"), Hartford, Conn.
Wing, J. T., & Co., 19 Woodward av., Detroit, Mich.
Woodman, R. Mfg. & Supply Co. ("Woodman & Hudson's"), 63 Oliver, Boston, Mass.

Indicators (Station)

Muirhead, W. R. (Automatic Railroad), Bridgeport, Conn.
Singer Sewing Machine Co. ("Boynton," for Railroads), 149 B'way, New York

Indicators (Steam Engine)

American Steam Gauge & Valve Mfg. Co. ("Amer. Thompson Improved"), 208 Camden, Boston, Mass.
Ashcroft Mfg. Co. ("Tabor"), 85 Liberty, New York
Bushnell, Jno. S. & Co. ("Batchelder"), 227 Fulton, New York
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
Lippincott Steam Specialty & Supply Co. ("Lippincott," "Excelsior," "Howard," "Thompson"), Newark, N. J.
Robertson, Jas. L. & Son (Inc.) ("Robertson-Thompson"), 48 Warren, New York
Schaeffer & Budenberg Mfg. Co. ("Lyne" & "Thompson"), 963 Kent av., Brooklyn, N. Y.
Star Brass Mfg. Co., Boston, Mass.
Tabor Mfg. Co., 18th & Hamilton, Phila., Pa.
Thompson, Richard & Co. ("Thompson's"), 126 Liberty, New York
Trill Indicator Co. ("Trill," "Triumph," "Perfection"), Corry, Pa.

Indicators (Tank)

BALTIMORE COOPERAGE CO., THE, cor. Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Quimby Engineering Co. ("U. S. Standard" Mercury), 913 Rldge av., Phila., Pa.
Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.
SIMMONS, JOHN CO., 110 Centre, New York. (See adv. index, end of book)
Tankometer Co., 89 State, Boston, Mass.

Indicators (Test)

Diown & Sharpe Mfg. Co. (Dial Lathe, etc.), Providence, R. I.
Koch, Henry, & Son, Nyack, N. Y.
Reisner, W. H. Mfg. Co. (Dial Lathe, etc.), Hagerstown, Md.
STARRETT, L. S. CO. (Universal), Athol, Mass. (See adv. index & branch offices, end of book)

Indicators (Valve)

Walworth Mfg. Co. (The Half), 132 Federal, Boston, Mass.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Indicators (Water)

Steigert, Leopold ("U. S." for Bollers), Elder & Logan, Cincinnati, O.

Indicators (Wire Rope)

Chain Belt Co., Milwaukee, Wis.

***Indurated Board**

BEAVER MFG. CO., THE, 228 Perry st., Buffalo, N. Y. (See adv. index, end of book)

**Indurated Fibre Ware**

United Indurated Fibre Co. of N. J. ("Fl-brotta"), Lockport, N. Y.

Ingot Extractors

Lewis Foundry & Machine Co., Coraopolis, Pa.
Mesta Machine Co., Pittsburg, Pa.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
United Engineering & Foundry Co., Farmers Bank bldg., Pittsburg, Pa.

Ingot Strippers (Electric & Hydraulic)

Modern Steel Structural Co., Waukesha, Wis.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

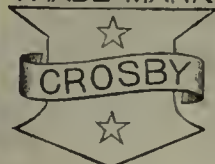
Ingots (Aluminum)

Aluminum Co. of America, Pittsburg, Pa.
American Metal Co. (Ltd.), 52 B'way, New York
Electric Smelting & Aluminum Co., Lockport, N. Y.
Janney, Steinmetz & Co., 4th & Market, Philadelphia, Pa.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
Scoville Mfg. Co., Waterbury, Conn.
Walte, Ranlet & Co., Boston, Mass.

Ingots (Brass & Copper)

Ajax Metal Co., 46 Richmond, Philadelphia, Pa., & Birmingham, Ala.
American Metal Co. (Copper), 52 B'way, New York
American Smelting & Refining Co., 9th & Freeman, Cincinnati, Ohio
Ansonia Brass & Copper Co., Ansonia, Conn.
Blatchford, E. W. Co., 78 W Clinton, Chicago, Ill.
Douglas Copper Co. (Copper Only), 42 B'way, New York
Duquesne Reduction Co., Farmers' Bank bldg., Pittsburg, Pa.
Great Western Smelting & Refining Co., 173 W Kinzie, Chicago, Ill.
Hayman, Mich'l & Co. (Copper), Buffalo, N. Y.
Hendricks Bros., 49 Cliff, New York
Hlertz, Thos. Metal Co., Tenn av & Poepping, St. Louis, Mo.

TRADE-MARK

**THE CROSBY INDICATOR**

ABOVE ALL OTHERS IS THE INSTRUMENT
RELIED UPON IN MAKING ELABORATE
* TESTS OF POWER PLANTS. *

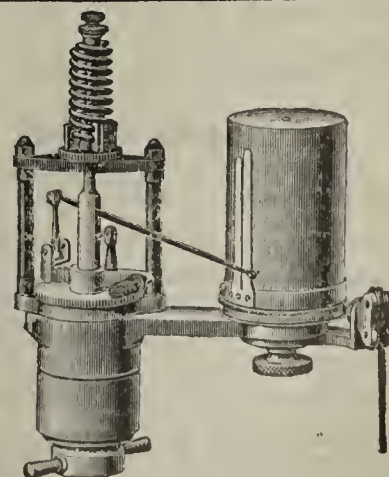
THE HIGH DECREE OF EXCELLENCE

In its manufacture and the trustworthy results obtained in its operation have led to its recognition by leading technical schools and eminent engineers as being superior in all respects to all other indicators.

The CROSBY STEAM GAGE & VALVE CO.

BOSTON. NEW YORK. CHICAGO. LONDON.

With CROSBY REDUCING WHEEL the Outfit is Complete.



Highest Awards at World's Fairs

HUNGERFORD, U. T. BRASS & COP-
per Co., 497 Pearl, New York
Hurley & Wainwright, 81 Fulton, New York
Hussey, C. G. & Co., 2850 24 av., Pittsburgh
Illinois Smelting & Refining Co. (Brass), Klin-
zie & Peoria, Chicago, Ill.
Kramer, H. & Co., 353 S. Canal, Chicago, Ill.
LEAVITT, C. W. & CO. (Copper only),
30 Church, New York. (See adv. index,
end of book)
MERCHANT & EVANS CO. (Inc.), 517
Arch, Philadelphia, Pa. (See adv. index &
branch offices, end of book)
Reeves, Paul S. & Son (Red, White & Yel-
low Brass & Pure Copper, etc.), 1415 Cath-
arine, Phila., Pa.
Roessing Bronze Co., Etna, Pa.
Shimer, H. M. & Co. (Red & Yellow), 19th
& Wash'n av., Phila., Pa.
Syracuse Smelting Works, Syracuse, N. Y.
Tottenville Copper Co. (O. C. T.), Tottenville
N. Y.
Trench, C. S. & Co., 81 Fulton, New York
Waite, Ranlet & Co., Boston, Mass.
WALSH'S SONS & CO., Newark, N. J.
(See adv. index, end of book)
White & Bro. (Inc.) (Red & Yellow Brass,
etc.), 1502 E Wilt, Philadelphia, Pa.
Woodfall Bros., 1105 Fairmont av., Phila., Pa.

Ingots (Bronze)

Ajax Metal Co., Philadelphia, Pa.
National-Fulton Brass Mfg. Co. ("Monarch"),
Detroit, Mich.
Reeves, Paul S. & Son, 1415 Catharine, Phila.,
Pa.
Roessing Bronze Co., Etna, Pa.
U. S. Bronze Co., 1831 Columbus rd., Clevel-
land, O.

Ingots (Copper)

(See Ingots, Brass & Copper)

Ingots (Manganese Bronze)

American Manganese Bronze Co., 99 John,
New York
Cramp, Wm. & Sons Ship & Engine Building
Co. ("Parsons"), Philadelphia, Pa.
Reeves, Paul S. & Son ("Tubal"), 1415 Cath-
arine, Phila., Pa.

*Ingots (Nickel)

MERCHANT & EVANS CO. (Inc.), 517
517 Arch, Phila., Pa. (See adv. index &
branch offices, end of book)

Ingots (Phosphor Bronze)

Ajax Metal Co., 46 Richmond, Philadelphia
Pa., & Birmingham, Ala.
Damascus Bronze Co., Allegheny, Pa.
Edna Smelting & Refining Co., 525 Reading rd
Cincinnati, O., & Monadnock blk, Chicago
Ill
Great Western Smelting & Refining Co. 173 W
Klinzie, Chicago, Ill.
MERCHANT & EVANS CO. (Inc.), 517 Arch
Phila., Pa. (See adv. index & branch
offices, end of book)
Phosphor Bronze Smelting Co., 2200 Washing-
ton av., Philadelphia, Pa.
Reeves, Paul S. & Son, 1413 Catharine, Phila-
delphia, Pa.
Syracuse Smelting Works, Syracuse, N. Y.
U. S. Bronze Co., 1831 Columbus rd., N W
Cleveland, O

Ingots (Steel)

(See also Billets, Blooms & Slabs, Steel)

Allegheny Steel Co. (Open Hearth), Pittsburgh
Pa.
American Bridge Co. (Open Hearth), Pitts-
burg, Pa.
AMERICAN STEEL & WIRE CO. (Besse-
mer & Open Hearth), Commercial National
Bank bldg, Chicago, Ill. (See adv. index
& branch offices, end of book)
American Tube & Stamping Co. (Open
Hearth), Bridgeport, Conn.
Andrews Steel Co. (Basic Open Hearth), New-
port, Ky.
Ashland Steel Co. (Bessemer), Ashland, Ky.
Bethlehem Steel Co. (Open hearth), South
Bethlehem, Pa.
Buffalo Crucible Castings Co. (Crucible Cast
Steel), Buffalo, N. Y.
Cambria Steel Co. (Bessemer, Acid & Basic
Open Hearth), Arcade bldg., Phila., Pa.

Carbon Steel Co. (Acid & Basic Open Hearth),
Pittsburg, Pa.
Carnegie Steel Co. (Bessemer & Open
Hearth), Pittsburgh Pa.
Carpenter Steel Co. (Crucible), Reading, Pa.
Cascade Steel Foundry Co. (Basic Open
Hearth), Seattle, Wash.
Central Iron & Steel Co. (Open Hearth), Har-
rissburg, Pa.
Chrome Steel Works (Chrome Steel), Chrome,
N. J.
Colonial Steel Co. (Crucible & Open Hearth),
Pittsburg, Pa.
Colorado Fuel & Iron Co. (Bessemer & Open
Hearth), Denver, Col.
Crucible Steel Co. of America (Crucible &
Open Hearth), Pittsburgh, Pa.
Cyclops Steel Works (Crucible), Titusville, Pa.
Farist Steel Co. (Crucible), Bridgeport, Conn.
Halcumb Steel Co. (Crucible & Open Hearth),
Syracuse, N. Y.
Harrisburg Pipe & Pipe Bending Co. (Open
Hearth), Harrisburg, Pa.
Indiana Steel Co. (Open Hearth), Commer-
cial Bank bldg., Chicago, Ill.
Jessop Steel Co. (Crucible), 91 John, New
York
Jones & Laughlin Steel Co. (Bessemer &
Open Hearth), Pittsburgh, Pa.
Lackawanna Steel Co. (Bessemer & Open
Hearth), Buffalo, N. Y.
Lucknow Iron & Steel Co. (Open Hearth),
Harrisburg, Pa.
Lukens Iron & Steel Co. (Open Hearth),
Coatesville, Pa.
Maryland Steel Co. (Bessemer), Sparrows
Point, Baltimore, Md.
Midvale Steel Co. (Crucible & Open Hearth),
Nictown, Phila., Pa.
National Tube Co. of Ohio (Bessemer), Lor-
rain, O.
Niagara Forged Steel Co. (Open Hearth),
Buffalo, N. Y.
Norwalk Steel & Iron Co. (Crucible & Open
Hearth), Norwalk, O.
Otis Steel Co. (Acid & Basic Open Hearth),
Cleveland, O.
Page Woven Wire Fence Co. (Open Hearth),
Monessen, Pa.
Pennsylvania Steel Co. (Bessemer, Open
Hearth & Crucible), Girard bldg., Phila.,
Pa.
Phoenix Iron Co. (Acid & Basic Open Hearth),
410 Walnut, Phila., Pa.
Pittsburg Steel Foundry (Open Hearth Cast,
Up to 70,000 lbs.), Pittsburgh, Pa. Works:
Glassport, Pa.
Portsmouth Steel Co. (Acid & Basic Open
Hearth), Wheeling, W. Va.
Republic Iron & Steel Co. (Bessemer), Pitts-
burg, Pa.
SHARON STEEL HOOK CO. (Acid & Ba-
sic Open Hearth), Sharon, Pa. (See adv.
index & branch offices, end of book)
Southern Steel Co. (Basic Open Hearth), Bir-
mingham, Ala.
Standard Steel Works Co. (Open Hearth),
Harrison bldg., Phila., Pa.
Taylor, N. & G. Co. (Open Hearth), Mariner
& Merchants' bldg., Phila., Pa.
Tennessee Coal, Iron & R. R. Co. (Open
Hearth, Rail, etc.), Birmingham, Ala.
Tremont Nail Co. (Soft Steel), West Ware-
ham, Mass., & 76 Pearl, Boston, Mass.
West Leechburg Steel Co. (Basic Open
Hearth), Pittsburg, Pa.
Worth Bros. Co. (Acid & Basic Open Hearth),
Coatesville, Pa.

Ingots (Zinc)

American Smelting & Refining Co., 165 B'way,
Lanyon Zinc Co., Iola, Kans. New York
MERCHANT & EVANS CO. (Inc.), 517
Arch, Phila., Pa. (See adv. index &
branch offices, end of book)
New Jersey Zinc Co., 55 Wall, New York

Injectors (Locomotive)

American Injector Co. ("World" Injector), De-
troit, Mich.
Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Chicago Injector Co. ("Garfield"), Wadsworth,
Ohio
Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end
of book)
Edna Smelting & Refining Co. ("Monitor"), 525
Reading rd, Cincinnati, O.
Griffiths, Jas. A. ("Eclipse"), 500 N. 12th,
Philadelphia, Pa.
Hancock Inspirator Co. ("Hancock" Inspirators,
for Locomotive, Marine & Stationary Pur-
poses), 85 Liberty, New York

Handlan-Buck Mfg. Co. ("Perfection"), 212 N.
3d, St. Louis, Mo.
Hayden & Derby Mfg. Co. ("Metropolitan,"
etc.), 85 Liberty, New York
Lonergan, Jas. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cincin-
nati, O. (See adv. index & branch offices,
end of book)
Nathan Mfg. Co. ("Simplex," "Nathan,"
"Monitor"), 85 Liberty, New York
Ohio Injector Co. ("Garfield"), Wadsworth, O.
Penberthy Injector Co. ("Penberthy," Auto-
Positive), 346 Holden av, Detroit, Mich.
Powell, Wm. Co., 2525 Spring Grove av., Cin-
cinnati, O.
Schutte & Koerting ("Koerting"), 1251 N
12th, Phila., Pa.
Sellers, William, & Co., 1600 Hamilton, Phil-
adelphia, Pa.
Sherwood Mfg. Co. ("Buffalo"), Buffalo, N. Y.

*Injectors (Oil)

LUNKENHEIMER CO. ("Standard"),
General Offices & Works, Beekman &
Waverly, Cincinnati, O. (See adv. index
& branch offices, end of book)

Injectors & Ejectors (Boiler)

American Injector Co. ("U-S," "World"), De-
troit, Mich.
Automatic Injector Co., Cincinnati, O.
Baker-Churchill-Lee Co. ("Lee"), Detroit, Mich.
Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices, end
of book)
Desmond-Stephen Mfg. Co. ("Desmond"), Ur-
bana, O.
Detroit Lubricator Co. ("Detroit" Boiler Oil),
Detroit, Mich.
DONEGAN & SWIFT, 6 Murray, New
York. (See adv. index, end of book)
Eynon-Evans Mfg. Co. ("Niagara" & "Eynon-
Korting"), 1519 Clearfield, Philadelphia, Pa.
FAIRBANKS, MORSE & CO.
("Chief"), Chicago, Ill. (See adv. index &
branch offices, end of book)
Griffiths, Jas. A. ("Keystone," "Champion,"
"Eclipse"), 500 N. 12th, Philadelphia, Pa.
Hancock Inspirator Co. ("Hancock" Inspirators,
"Loftus"), 85 Liberty, New York
Hayden & Derby Mfg. Co. ("Metropolitan," "H.
& D." Automatic & Double Tube), 85 Lib-
erty, New York
Jenkins Bros. ("Seller's Restarting"), New York
Keyes, F. E. & Son ("Advance"), 20 Broad,
New York
Lonergan, J. E. & Co. ("Clipper," "Ajax"),
211 Race, Phila., Pa.
LUNKENHEIMER CO. (General Of-
fices & Works, Beekman & Waverly, Cincin-
nati, O. (See adv. index & branch offices,
end of book)
McNab & Harlin Mfg. Co., New York
Nathan Mfg. Co. ("Nathan," "Gresham,"
"Monitor," "Simplex," "Friedmann"), 85
Liberty, New York
National Injector Co. ("National"), Geneva, O.
Ohio Injector Co. ("Garfield" Double Jet,
"Chicago" Automatic), Wadsworth, O.
PATTERSON, GOTTFRIED & HUN-
ter Co., 211 Center, New York.
Penberthy Injector Co. ("Penberthy," Auto-
matic, Auto-Positive & "X1-96"), Auto-
Holden av, Detroit, Mich.
Powell, Wm. C. (Stationary & Marine), 2525
Spring Grove av., Cincinnati, O.
Randle Machinery Co. ("Leader"), Powers & C.
H. & D. R'y, Cincinnati, O.
Rue Mfg. Co. ("Little Giant," "Unique" &
"Fixed Nozzle"), 228 Cherry, Philadelphia,
Pa.
Schaeffer & Budenberg Mfg. Co., 963 Kent
av, Brooklyn, N. Y.
Schutte & Koerting ("Koerting" & "Universal"),
1253 N. 12th, Philadelphia, Pa.
Sellers Wm. & Co. (Locomotive & Boiler), 1600
Hamilton, Philadelphia, Pa.
Sherwood Mfg. Co. ("Buffalo," "Sherwood,"
"Eagle"), Buffalo, N. Y.
Steam Appliance Co. ("Triumph"), Milwaukee,
Wis.
Stephens, Roe Mfg. Co. ("Michigan," "Roe,"
"Delta"), Detroit, Mich.
Tranter Mfg. Co., ("Peerless"), Pittsburg, Pa.
Van Duzen, E. W. Co., Cincinnati, O.
Watson, N. A. ("Excelsior"), Erie, Pa.
Watson & McDaniel Co. ("McDaniel"), Ejec-
tors), 146 N 7th, Phila., Pa.

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American Printing Ink Co. (Wood Printing), 891 W Kinzie, Chicago, Ill.
Anlt & Wiborg Co., 534 Pearl, New York
Barnard, F. A. & Son, 349 Dearborn, Chicago, Pa.
Buffalo Printing Ink Works (Copyable Printing), Buffalo, N. Y.
California Ink Co., 11 Jones, San Francisco, Cal.
Eagle Printing Ink Co., 24 Cliff, New York
Fuchs & Lang Mfg. Co., 29 Warren, New York
Golding Mfg. Co., 177 ft Hill sq., Boston, Mass.
Janecke Printing Ink Co., 119 Worth, New York
Johnson, Charles Eneu & Co., 47 Rose, New York
Kane & Company, 108 5th av, Chicago, Ill.
Levey, Frederick H. Co., 59 Beekman, New York
Morrill, George H. Co., 49 Rose, New York
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(See adv. index, end of book)

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Sinclair & Valentine, 5 Marion, New York
Standard Printing Ink Co., Cincinnati, O.
Thalman Printing Ink Co., St. Louis, Mo.
Ullman, Sigmund Co., 186 William, New York
Underwood, John & Co., 30 Vesey, New York
Webster, F. S. Co., Boston, Mass.
Wilson Printing Ink Co., W. D. 17 Spruce, New York
Wright Printing Ink Co., Phila., Pa.

Inks (Writing)

Barnes National Ink Co., 222 N 5th, Phila., Pa.
Carter's Ink Co., Boston, Mass.
Caw's Pen & Ink Co., 46 Vesey, New York
Davids, Thaddeus Co., 127 William, New York
Diamond Ink Co., Milwaukee, Wis.
Heller, B. & Co., 249 S Jefferson, Chicago, Ill.
Higgins, Chas. M. & Co., 271 9th av, Brooklyn, N. Y.
Keller, Rob't Ink Co., Detroit, Mich.
Kirk, H. D., 72 S Canal, Chicago, Ill.
Levison & Blythe Mfg. Co., St. Louis, Mo.
Moore, J. & I. E., Warren, Mass.
Paul's Ink Co., Jersey City, N. J.
Pierce Mfg. Co., 69 Wells, Chicago, Ill.
Sanford Mfg. Co., Chicago, Ill.
Stafford, S. S. (Inc.), 605 Washington, New York
Thomas, L. H. Co., 220 Pearl, Chicago, Ill.
Underwood, John & Co., 30 Barclay, New York
Wallor Ink Works, 6935 Monroe av, Chicago, Ill.
Worden Ink & Mfg. Co., 67 Pearl, New York

Inkstands & Wells

Cushman & Denison Mfg. Co. ("Capitol," Non-Evaporating), 240 West 23d, New York
National Sheet Metal Co. ("Nicolene") Peru, Ill.
Sengbrusch Self Closing Inkstand Co. (Self Closing), Milwaukee, Wis.
Tatum, Sam'l C. Co. (Iron, Glass, Hardwood etc.), Cincinnati, O.

Inlets (Fresh Air)

CENTRAL FOUNDRY CO., 37 Wall,
New York. (See adv. index, end of book)
Desper, Henry A., Worcester, Mass.
Du Bois, Fred'k N. & Co., 247 9th av, New York
Fee & Mason, 66 Beekman, New York
Hart-Ayres Plumbing Co., 4th av c Degraw, Brooklyn, N. Y.
Mott, J. L. Iron Works, 118 5th av, N. Y.
Perfect Fresh Air Inlet Co., 125 E 42d, New York
Zero Valve & Brass Mfg. Co., 296 Seneca, Buffalo, N. Y.

Inspection of Iron, Steel, Concrete & General Construction

Bartholomew, H. (Testing a Specialty), Phoenixville, Pa.
Stebblings, W. L., Monadnock blk, Chicago, Ill.

Inspirators

(See Injectors)

Instruments (Astronomical)

Bausch & Lomb Optical Co., Rochester, N. Y.
BUFF & BUFF MFG. CO., Jamaica Plain, Boston, Mass. (See adv. index, end of book)
Warner & Swasey Co., Cleveland, O.

Instruments (Electrical Testing & Measuring)

American Instrument Co. ("American"), 16 Lawrence, Newark, N. J.
Biddle, Jas. G. (Testing), Phila., Pa.
BRISTOL CO., Waterbury, Conn. (See adv. index & branch offices, end of book)
Burke Electric Co., Real Estate Trust bldg, Philadelphia, Pa.
Cutter Co. (Keystone Measuring), Phila., Pa.
Eldredge Electric Mfg. Co., Springfield, Mass.
Etua Electric Works, 145 E. 23d, New York.
Foote, Pierson & Co. ("Delta" Testing), 82 160 Duane, New York
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Keystone Electrical Instrument Co., 9th & Montgomery av, Phila., Pa.
Leeds & Northrup Co., 4901 Stenton av, Gtn., Philadelphia, Pa.
Machade & Roller, 203 B'way, New York
Myers Break Finding Co. (Testing), Syracuse, N. Y.
Norton Electrical Instrument Co., Manchester, Conn.
QUEEN & CO. (Inc.), n. w. cor 8th & Arch, Phila., Pa. (See adv. index, end of book)

Ritchie, E. S. & Sons, Brookline, Mass.
Sangamo Electric Co., Springfield, Ill.
Roller-Smith Co. (Rail Bond Testing Co. etc.), Bethlehem, Pa.
Shore Instrument & Mfg. Co. ("Scleroscope" for Steel & Other Materials), 226 W 24th, New York
Simplex Co., Newark, N. J.
Wagner Electric Mfg. Co., St. Louis, Mo.
WESTINGHOUSE ELECTRIC & MFG. Co., Union B'k bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Instruments (Leveling)

Athol Machine Co., Athol, Mass.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Instruments (Mathematical)

(See Instruments, Nautical; also Scientific; also Engineering & Surveying.)

Instruments of Precision

Alteneeder Theo. & Son, 945 Ridge av, Phila., Pa.
Fiego, Alex. J. R., Lynn, Mass.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Instruments (Nautical)

Alhrecht, Chas. R., 62 Fulton, New York
Bliss, Jno. & Co., 128 Front, New York
Hand, Jno. & Sons, 222 Walnut, Phila., Pa.
Keuffel & Esser Co., 127 Fulton, New York
Riggs & Bros., 310 Market, Philadelphia, Pa.
Ritchie, E. S. & Son, Brookline, Mass.
Rupp, Michael & Co., 39 South, New York

Instruments (Scientific)

Beckman, L. Co. (Surveying), Toledo, O.
Hanna Mfg. Co. (Mathematical), Troy, N. Y.
Keuffel & Esser Co., 127 Fulton, New York.

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WISSLER, A. INSTRUMENT WORKS, 601-615 N B'way, St. Louis, Mo. (See adv. index, end of book)

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Instruments (Telegraph)

BUNNELL, J. H. & CO. (Also Telegraph Appliances), Park pl. & Church, New York. (See adv. index, end of book)
Dinsmore & Lawton ("D. & L."), 134 Van Buren, Chicago, Ill.
Ericsson, L. M. Telephone Mfg. Co., Buffalo, N. Y.
Foote, Pierson & Co. (Measuring & Testing Instruments of Precision), 160 Duane, New York
Manufacturers' & Investors' Electric Co. ("Morse Watch"), 84 Nassau, New York
Omniograph Mfg. Co., 39 Cortlandt, New York
United States Electric Co. ("Gill" Selector), 95 William, New York
Viaduct Co., Relay, Md.
Votamp Elec. Mfg. Co., Baltimore, Md.
Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, New York

Instruments (Testing & Measuring)

(See Instruments, Electrical Testing & Measuring)

Instruments (Wireless Telegraph)

Clark Wireless Telegraph-Tel. Co., Detroit, Mich.
International Telegraph Construction Co. ("Shoemaker"), 25 Broad, New York
National Elec. Signaling Co. ("Fessenden"), Pittsburg, Pa.
Radio Telephone Co. ("De Forest"), 103 Park av, New York

Insulated Joints (for Electrical Track Circuits)

Continuous Rail Joint Co., Newark, N. J.
Weber Railway Joint Mfg. Co., 71 B'way, New York

Insulated Wire

(See Wire, Insulated)

Insulating Asphalt

Impervious Product Co., 213 St. Paul, Baltimore, Md.
INDIAN REFINING CO., Cincinnati, O. (See adv. index, end of book)
Standard Asphalt & Rubber Co. ("Sarco" Asphalt Gum), 205 La Salle, Chicago, Ill.
Stowell Mfg. Co., 114 to 134 Culver av, Jersey City, N. J.
Warren Chemical & Mfg. Co., 17 Battery pl, New York

Insulating Board

(See Insulating Papers)

Insulating Cloth

(See also Mica; also other Insulating Specialties)

American Mica Co. ("Puritan"), Newton, Lower Falls, Mass.
Chicago Mica Co. ("Champion"), Valparaiso, Ind.
Consumers' Rubber Co. ("Euclid"), Cleveland, Ohio
Massachusetts Chemical Co., Walpole, Mass.
Mica Insulator Co. ("Empire"), 67 Church, New York
Packard Electric Co., Warren, O.
Pittsburg Insulating Co., Pittsburg, Pa.
Standard Paint Co. ("I. & B."), 100 William, New York
United States Insulating Co., Fulton bldg, Pittsburg, Pa.
VAN DORN ELECTRIC & MFG. CO., 2694 E 79th, Cleveland, O. (See adv. index, end of book)

Insulating Compounds

(See also Paints, Insulating; also Insulating Varnishes)

American Electric Fuse Co. ("Merico" Cable Compounds), Muskegon, Mich.
American Mica Co. ("A-M-C"), Newton Lower Falls, Mass.
Candy & Co. ("Faultless"), 102 N Lincoln, Chicago, Ill.
Cochrane Chemical Co., 26 Cortlandt, New York
Consumers' Rubber Co. ("Red Black," "Samson" Gum Rubber), Cleveland, O.
Crescent Co. ("Crescent," "Chatterton"), Valparaiso, Ind.
Dielectric Co. of America, Belleville, N. J.
Dielectric Mfg. Co., St. Louis, Mo.
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
Electric Cable Co. ("Votax," Non-Rubber), Bridgeport, Conn.
Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.
Farrington Co. ("Collisol"), 15 State, Boston, Mass.
Garton, W. R. Co. ("Velvapara"), 118 W Jackson boul, Chicago, Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Insulative Co., 1 B'way, New York
Johns, H. W.-Manville Co. ("J-M"), 100 William, New York
JOHNS-PRATT CO., THE, Hartford, Conn.
Kornit Mfg. Co. ("Kornit"), Belleville, N. J.
Massachusetts Chemical Co. ("Walpole," "Marschemco," "Union Splice," "Neponset"), Walpole, Mass.
Mica Insulator Co. ("M. I. C."), 68 Church, New York
Minerallac Co., 1061 Monadnock blk, Chicago, Ill.
Mitchell, Wm. E. G. ("B-S"), 88 Maiden la, New York
Morgan & Wright (Inc.) (Stick Insulating, for Splicing Cables, etc.), Detroit, Mich.
National Insulator Co., Boston, Mass.
Ohio Brass Co. ("Drigo"), Mansfield, O.
OKONITE CO. (Ltd.), 253 B'way, New York. (See adv. index, end of book)
Railway Specialty & Supply Co. ("A-C"), Great Northern bldg., Chicago, Ill.
Smith, Edw. & Co. (Baked Coating), 141 B'way, New York
Standard Asphalt & Rubber Co. ("Sarco"), 205 La Salle, Chicago, Ill.
Standard Paint Co. ("P. & B."), 100 William, New York
Standard Underground Cable Co. ("Ozite"), Westinghouse bldg, Pittsburg, Pa.
Sterling Varnish Co., Pittsburg, Pa.
Trotter, E. T. Co. ("Ozokerite," "Ceserline"), 602 Johnson av, Brooklyn, N. Y.
VAN DORN ELECTRIC & MFG. CO., 2694 E 79th, Cleveland, O. (See adv. index, end of book)
Warren Chemical & Mfg. Co., Whitehall bldg, New York
Weser Supply Co. ("Wesco"), St. Louis, Mo.
Western Electric Co. ("W. E. Pothead"), 259 S. Clinton, Chicago, Ill., & 57 Bethune, New York

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Scranton Button Co. (Electroid), Scranton, Pa.

Insulating Fibre

(See also Fibre, Hard)

AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)
Boonton Rubber Co., Boonton, N. J.
DELAWARE HARD FIBRE CO., Wilmington, Del.; Works: Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)
Leatheroid Mfg. Co., Kennebunk, Me.
National Fibre Insulation Co., Yorklyn, Del.
Spaulding, J. & Sons Co., North Rochester, N. H.
Union Fibre Co. ("Lith," Rock & Flax Fibre), Winona, Minn.
United Indurated Fibre Co. N. J. ("Fibrotte" for Covering Third Rails & Wires), Lockport, N. Y.
WILMINGTON FIBRE SPECIALTY Co., Wilmington, Del. (See adv. index, end of book)

Insulating Fixture Joints

Chicago Gas & Electric Fixture Mfg. Co., 19 S Jefferson, Chicago, Ill.
Flagg, Stanley G. & Co., 424 N 19th, Phila., Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Macallen Co., c Foundry & Division, Boston
Mitchell-Vance Co. ("Robb" Fixture), 507 W 24th, New York
Pass & Seymour, Solvay, N. Y.

Insulating Paints

(See Paints, Insulating)

Insulating Papers

(See also Mica)

American Insulating Material Mfg. Co. (Savoy's "Polar Brand"), Alexandria, Ind.
American Mica Co. ("Puritan"), Newton Lower Falls, Mass.
AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)
Barrett Mfg. Co. (Also Insulating Rope), Land Title bldg, Phila., Pa.
Bird, F. W. & Son (Insulating Papers) East Walpole, Mass.
CABOT, SAMUEL (Cabot's Quilt), 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago, Ill. (See adv. index & branch offices, end of book)
Case Bros. (Boards, Any Size or Thickness), Highland Park, Conn.
Craue Bros. ("Linenoid"), Westfield, Mass.
DELAWARE HARD FIBRE CO. (Hard Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
Dexter, C. H. & Sons (Tissue, etc.), Windsor Locks, Conn.
DIAMOND STATE FIBRE CO. (Fibre), Elsmere, Del. (See adv. index, end of book)
Green Insulation Co. ("Q. A."), Cleveland, O.
Hollingsworth & Vose Co. (All Grades for Insulating), Boston, Mass.
Johns, H. W.-Manville Co. (Asbestos), 100 William, New York
Lincoln Waterproof Cloth Co., Boundbrook, N. J.
Massachusetts Chemical Co. ("Neponset"), Walpole, Mass.
Merwin Paper Co. (Insulating Boards), Rainbow, Conn.
MORRIS ELECTRIC CO. ("Fyberoid"), Wilmington, Del.
National Metal Molding Co. (Paper for Insulating), Boonton, N. J.
National Wax & Paper Mfg. Co., 199 Franklin, New York
Pittsburg Insulating Co., Pittsburg, Pa.
Ramsey, E. R. Co. (Insulating Fibre), Penn Yan, N. Y.
Rogers Paper Mfg. Co. (Insulating Boards), South Manchester, Conn.
Single, Jno. Paper Co., Syracuse, N. Y.
Standard Paint Co. ("P. & B."), "Giant", 100 William, New York
Tarentum Paper Mills (Rope Paper for Insulating), Pittsburg, Pa.
Union Fibre Co. (And Quilts, "Linenoid"), Winona, Minn.
Union Mills Paper Mfg. Co. (Manilla Rope for Insulating), New Hope, Pa.

United States Insulating Co., Fulton bldg, Pittsburg, Pa.

VAN DORN ELECTRIC & MFG. CO., 2694 E 79th, Cleveland, O. (See adv. index, end of book)
WATSON, H. F. CO. (Asbestos), Erie, Pa. (See adv. index & branch offices, end of book)
Whittelsey Paper Co. (Tissue, etc.), Windsor Locks, Conn.
WILMINGTON FIBRE SPECIALTY Co. ("Fyberoid"), Wilmington, Del. (See adv. index, end of book)
York Haven Paper Co. (Insulating Paper), 11 B'way, New York

Insulating Press Boards

(See Press Boards)

Insulating Rubberized Asbestos

Boonton Rubber Co., Boonton, N. J.

Insulating Saddle Staples

Insulating Saddle Staples Co. (For Electrical Work), Brockton, Mass.

Insulating Solder, Paste, Salts, Etc.

(See Soldering Paste, Salts & Stick)

Insulating Tape

(See Tape, Insulating)

Insulating Varnish

(See also Insulating Paints; also Insulating Compounds)

Berry Bros., Detroit, Mich.
Calman, Emil & Co. ("Ohmlac"), 100 William, New York
Central Paint & Supply Co. ("Gilselgloss"), St. Louis, Mo.
Devoe, F. W. & C. T. Reynolds Co., c Fulton & William, New York
Dielectric Mfg. Co., St. Louis, Mo.
Eagle Paint & Varnish Co., Pittsburg, Pa.
Grothwell, Armand ("Mogul"), 350 W 25th, New York
Irvington Varnish & Insulator Co., Irvington, N. J.
Massachusetts Chemical Co. ("Armalac"), Walpole, Mass.
Moller & Schumann Co., Marcy av, Brooklyn, N. Y.
Murphy Varnish Co., Newark, N. J.
Packard Electric Co., Warren, O.
Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co., 141 B'way, New York
Standard Paint Co. ("P. & B."), 100 William, New York
Standard Varnish Works, 29 B'way, New York
Sterling Varnish Co., Pittsburg, Pa.
VAN DORN ELECTRIC & MFG. CO., 2694 E 79th, Cleveland, O. (See adv. index, end of book)

*Insulating ("Vulcabeston")

JOHNS-PRATT CO., THE, Hartford, Conn.

Insulation (Asbestos)

(See Asbestos Lumber)

Insulation (Cold Storage & Refrigerator)

Armstrong Cork Co., 23d & River, Pittsburg, Pa.
Barrett Mfg. Co. (Insulating Rope), Land Title bldg, Philadelphia, Pa.
Fay Manilla Roofing Co., Camden, N. J.
Hydrex Felt & Engineering Co., 120 Liberty, New York
Johns, H. W.-Manville Co. ("Keystone" Hair, "J. M." Sheet Cork), 100 William, New York
Nonparallel Cork Works (Granulated Cork), 50 Church, New York
Redway, A. J. & Co. ("Linofelt"), Mitchell bldg, Cincinnati, O.
Union Fibre Co. ("Linofelt," Water-proof Lith & Cork Boards), Winona, Minn.
United Cork Co. ("Star" Cork Board), Hoboken, N. J.
WYCKOFF, A. & SON CO. (Wood), Elmira, N. Y. (See adv. index, end of book)

Insulation (Cork)

Armstrong Cork Co., Pittsburg, Pa.
Nonpareil Cork Works, 50 Church, New York
Union Fibre Co. ("Peerless," Cork, Impregnated
Cork, Fire-Proof Cork), Wlona, Minn.
United Cork Co., 261 Lorimer, Brooklyn, N. Y.

Insulator Pins & Brackets

Absher, W. M. Co. (Wood), North Wilkesboro,
N. C.
Ajax Line Material Co. (Steel), 12 S Jefferson,
Chicago, Ill.
Barden Elec. & Machinery Co., Houston, Tex.
Benecia Iron Works (Steel), Benecia, Cal.
Bissell, F. Co., Toledo, O.
Blue Ridge Locust Pin Co., Dillsboro, N. C.
Brady, T. H. (Steel), New Britain, Conn.
Call, Clarence (Wood), North Wilkesboro, N. C.
Central Mfg. Co. (Wood), Chattanooga, Tenn.
Central Telephone & Elec. Co. ("Bois d'Arc"),
St. Louis, Mo.
Cohn & Bock (Wood), Princess Ann, Md.
Creaghead Engineering Co. ("Creaghead," Mal-
leable Iron), Cincinnati, O.

DIAMOND EXPANSION BOLT CO.
(Wood Insulator Pins), 90 West, New York.
(See adv. index & branch offices, end of book)
Electrical Construction Supply Co. ("Chub-
buck"), Springfield, O.

Electrose Mfg. Co. ("Electrose," Insulator Pins,
etc.), 127 N 10th, Brooklyn, N. Y.
Elkin Machinery Co. (Wood), Elkin, N. C.
Endsley, J. W. (Wood), Somersfield, Pa.
Fletcher Mfg. Co., Dayton, O.
Galloway, J. B. Co. (Wood), Clarendon, Ark.
Garton, W. R. Co. ("Hivol," "Mabir"), 118 W
Jackson boul, Chicago, Ill.
Gravely, B. F. & R. P. (Locust Pins, etc.),
Martinsville, Va.
Hallett Iron Works (Steel), 96 W Polk, Chi-
cago, Ill.
Hardwood Planing Mill Co. ("Gillespie"), San
Jose, Cal.
Harvard Electric Co., 66 W Van Buren, Chi-
cago, Ill.

Hubbard & Co. (Steel), Pittsburg, Pa.
K. & B. Co. (Inc.), 8th & Chestnut, Phila., Pa.
Lanz, M. & Sons, 29th & Carson, Pittsburg, Pa.
Lima Insulator Co. (Porcelain), Lima, N. Y.
Lock Insulator Mfg. Co. (Iron), Victor, N. Y.
Main Hub & Mfg. Co. (Wood), West Sebocis,
Mareus, Harris (Wood), Muscoda, Wis.
Metal Finishing Co. ("Beardsley"), Union City,
Conn.

Morris, Elmer P. Co. (Iron), 90 West, New
York
National Electrical Supply Co., Washington,
D. C.
Noblett, E. J. Co. (Wood), West Pullman, Chi-
cago, Ill.
Oliver Iron & Steel Co. (Steel), Pittsburg, Pa.
Osborne, M. P. & Son, Camden, N. Y.
Oshkosh Logging Tool Co. ("Kalkeen" Iron),
Oshkosh, Wis.

Pettingell, Andrews Co., Boston, Mass.
Phila. Electrical & Mfg. Co., Phila., Pa.
Pierce Specialty Co. (Iron), Elkhart, Ind.
Selling Co., Baltimore, Md.
Texas Arm & Pin Co. (Wood), Beaumont, Tex.
Towers Pin & Bracket Co. (Wood), Ellijay, Ga.
Trammell Co., Gallatin, Tenn.

Insulator Supports

Steel City Electric Co. ("Universal" for Steel
Work), Pittsburg, Pa.

Insulators (Arc Lamp)

(Insulators or Hangers)

Ajax Line Material Co. ("Volta"), 12 S Jeffer-
son, Chicago, Ill.
Anderson, Albert & J. M. Mfg. Co., Boston,
Mass.
Cutter, Geo. Co. ("Cutter's," Grove), South
Fletcher Mfg. Co., Dayton, O. Bend, Ind.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, New York. (See
adv. index & branch offices, end of book)
Johns, H. W.-Manville Co., 100 William, New
Macallen Co., Boston, Mass.
JOHNS-PRATT CO., THE (Stud &
Stralght Hanger), Hartford, Conn.
Morris, Elmer J. Co., 72 Trinity pl, New York
National Sewing Machine Co., ("Belvidere,"
"Mayo"), Belvidere, Ill.
Ohio Brass Co., Mansfield, O.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

Insulators (Canopy)

Dale Co., 9th av & 13th, New York
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, New York. (See
adv. index & branch offices, end of book)
Mica Insulator Co. ("Young"), 68 Church, New
York
Macallen Co. ("W. T. C."), Boston, Mass.
Mitchell, Vance Co., 507 W 24th, New York

Insulators (Fibre)

(See Insulating, Fibre; also Fibre, Hard)

Insulators (Glass)

Brookfield Glass Co. ("Brown," "Crown,"
"Columbia," "Safety," "O'Brien," "Com-
bination," "Mershon," "Edison," "Jum-
bo"), 2 Reitor, New York
Cumberland Glass Mfg. Co., Bridgeton, N. J.
Cutter, Scott C. (Tree), Oswego, Ill.
Duquesne Glass Co., Pittsburg, Pa.
Hemingray Glass Co. ("Munee Type," "Triple
Peticoat," "Prove Type"), Covington, Ky.
Knowles, C. S. Boston, Mass.
Locke Insulator Mfg. Co. ("Triple Peticoat"),
Victor, N. Y.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York
Western Glass Mfg. Co., Denver, Colo.

Insulators (Mine Feeder Wire)

Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

*Insulators (Moulded Mica)

JOHNS-PRATT CO., THE, Hartford,
Conn.

Insulators (Paper, for Cables)

(See Sleeves, Paper)

Insulators (Porcelain or Clay)

Adamant Porcelain Co. (Ltd.), Broadway, Va.
Akron Hi-Potential Porcelain Co. (High Volt-
age), Barberton, O.
Akron Smoking Pipe Co. (Clay & Porcelain
Tubes), Mogadore, O.
American Carbon & Battery Co., East St.
Louis, Ill.
Anderson Porcelain Co., East Liverpool, O.
Benlow Co., Cincinnati, O.
Bossert Electric Cons. Co. (Conduit Outlet),
Utica, N. Y., & 39 Cortlandt, New York
Brunt, G. F. Porcelain Co., East Liverpool, O.
Colonial Sign & Insulator Co. ("Poke" Tele-
phone), Akron, O.
Cook Pottery Co. (Porcelain), Trenton, N. J.
Diamond Porcelain Co., Trenton, N. Y.
Electric Porcelain Co., East Liverpool, O.
Electric Porcelain & Mfg. Co. (Of All Kinds),
Trenton, N. J.
GENERAL ELECTRIC CO. (Porce-
lain, Wall, Floor, Pole, etc.), Schenec-
tady, N. Y., & 30 Church, New York. (See
adv. index & branch offices, end of book)
Green Insulation Co., Cleveland, O.
Hartford Falence Co. (Porcelain), Hartford,
Conn.

Imperial Porcelain Works (Porcelain, Trans-
mission), Trenton, N. J.
Knowles, C. S. (Porcelain), Boston, Mass.
Lima Insulator Co. (Porcelain), Lima, N. Y.
Loeke Insulator Mfg. Co. (High Voltage, Porce-
lain & China), Victor, N. Y.
National Porcelain Co., Trenton, N. J.
New Lexington High Voltage Porcelain Co.,
New Lexington, O.
Novelty Burner Co. (Alva Electrical), Chatta-
nooga, Tenn.
Ohio Brass Co. (Tree), Mansfield, O.
Pass & Seymour, Solvay, N. Y.
Peru Electric Mfg. Co. (Porcelain), Peru, Ind.
Pittsburg High Voltage Insulator Co. (Porce-
lain High Sew Voltage), Derry, Pa.
Snyder-Hunt Co., Belle Plains, Iowa.
Standard China Works ("Security," "Victor
Split"), Trenton, N. J.
Standard Vitrified Conduit Co. (Clay Vitrified
Salt Glazed), 39 Cortlandt, New York
Star Porcelain Co., Trenton, N. J.
Thomas, R. & Sons Co. ("Boeh"), Lisbon, O.
Trenton Porcelain Co., Trenton, N. J.
Union Electrical Porcelain Works, Trenton,
N. J.
Union Porcelain Works (Porcelain), 300 Eck-
ford, Brooklyn, N. Y.

United States Elec. Porcelain Co., Flndlay, O.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York
Wirt Mfg. Co., Burrage, Mass.

Insulators (Strain)

(See also Trolley Line Materials)

Aurora Specialty Mfg. Co., Aurora, Ill.
Creaghead Engineering Co. ("Bourbon"), 340
Main, Cincinnati, O.
Electrose Mfg. Co. ("Electrose," "Safety" &
"Disc"), 127 N 10th, Brooklyn, N. Y.
General Insulate & Machine Co., 1008 Atlantic
av, Brooklyn, N. Y.
Johns, H. W.-Manville Co. ("J.-M."), 100
William, New York
JOHNS-PRATT CO., THE, Hartford,
Conn.
Locke Insulator Mfg. Co. ("Victor"), Victor,
Macallen Co., Boston, Mass. N. Y.
Mathias-Hart Co., Baston, Mass.
Morris, Elmer P. Co., 90 West, New York
Ohio Brass Co. ("Ohio Brass," Wood Break),
Mansfield, O.
Pass & Seymour, Solvay, N. Y.
Phila. Electrical & Mfg. Co. ("Pemeo," Wood),
1232 N 31st, Phila., Pa.
Western Electric Co. ("Safety"), 259 S Clin-
ton, Chicago, Ill., & 57 Bethune, New York

Insulators (Swinging)

Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

Insulators (Third Rail)

(See also Trolley Line Materials)

Akron Smoking Pipe Co., Mogadore, O.
AMERICAN VULCANIZED FIBRE CO.
(Fibre), Wilmington, Del. (See adv. index,
end of book)
Anderson, Albert & J. M. Mfg. Co. ("Aetna"),
Boston, Mass.
Aurora Specialty Mfg. Co. ("Eureka"), Aurora,
Ill.
Colonial Sign & Insulator Co. (Clear & Semi-
Porcelain), Akron, O.
DELAWARE HARD FIBRE CO.
(Hard Fibre), Wilmington, Del. Works,
Marshalltown Del. (See adv. index, end of
of book)
DIAMOND STATE FIBRE CO. (Hard
Fibre), Elsmere, Del. (See adv. index, end
of book)
Electrose Mfg. Co. ("Electrose"), 127 N 10th,
Essex Co., Newark, N. J. Brooklyn, N. Y.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, New York. (See
adv. index & branch offices, end of book)
Johns, H. W.-Manville Co. ("Lawrencourt,"
"Flbrotta"), 100 William, New York
Ohio Brass Co. (Semi-Porcelain), Mansfield, O.
Standard Vitrified Conduit Co. ("Manhattan"),
39 Cortlandt, New York
Thomas, R. & Sons Co. (Porcelain), Lisbon, O.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York
WILMINGTON FIBRE SPECIALTY
Co. ("Fyberoid"), Wilmington, Del. (See
adv. index, end of book)

Insulators (Tree)

Ajax Line Material Co., 12 S Jefferson, Chi-
cago, Ill.
Anderson, Albert & J. M. Mfg. Co., 289A, S. B.,
Boston, Mass.
Brodie Electric Co., Manchester, N. H.
Brookfield Glass Co., 2 Reitor, New York
Cutter, Geo. Co., South Bend, Ind.
Cutter, Scott Co. (Glass), Oswego, Ill.
Dunton & Field, Cambridge, Mass.
Fletcher Mfg. Co., Dayton, O.
High Tension Electrical Specialty Co.
("Holmes"), Newton, Mass.
Johns, H. W.-Manville Co., 100 William, New
Ohio Brass Co., Mansfield, O.
Western Electric Co., 259 S. Clinton, Chicago,
Ill., & 57 Bethune, New York

Insulators (Wall)

GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, New York. (See
adv. index & branch offices, end of book)
General Insulate & Machine Co., 1008 Atlan-
tic av, Brooklyn, N. Y.
Ohio Brass Co., Mansfield, O.

Insurance (Accident)

Aetna Life Insurance Co., Hartford, Conn.
 American Fidelity Co., Montpelier, Vt.
 Casualty Co. of America, 52 William, New York
 Employers' Liability Assurance Corporation
 (Ltd.), of London, England, Samuel Apple-
 tou, Manager & Attorney for U. S., 33
 Broad, Boston, Mass.
 Fidelity & Casualty Co., 97 Cedar, New York
 Frankfurt Marine Accident & Plate Glass In-
 surance Co., 100 William, New York
 Gen. Accident Ins. Co., Philadelphia, Pa.
 Great Eastern Casualty & Indemnity Co., 290
 B'way, New York
 London Guarantee & Accident Co., Chicago, Ill.
 Maryland Casualty Co., Maryland Casualty
 bldg, Baltimore, Md., & 100 William, New
 York
 New Amsterdam Casualty Co., 74 William,
 New York
 North American Accident Insurance Co., Rook-
 ery, Chicago, Ill.
 Ocean Accident & Guarantee Corp., 350 B'way,
 New York
 Pacific Mutual Life Ins. Co., 508 Montgomery
 San Francisco, Cal.
 Pennsylvania Casualty Co., Scranton, Pa.
 Philadelphia Casualty Co., Philadelphia, Pa.
 Preferred Accident Ins. Co., 290 B'way, New
 York
 Standard Life & Accident Ins. Co., Detroit,
 Mich.
TRAVELERS INSURANCE CO., Hart-
ford, Conn., & 31 Nassau, New York
 U. S. Casualty Co., 141 B'way, New York
 U. S. Health & Accident Insurance Co., Sag-
 inaw, Mich.

Insurance (Employers' Liability)

Aetna Life Insurance Co., Hartford, Conn.
 American Fidelity Co., Montpelier, Vt.
 Casualty Co. of America, 52 William, New
 York
 Employers' Liability Assurance Corporation
 (Ltd.), of London, England, Samuel Apple-
 tou, Manager & Attorney for U. S., 33
 Broad, Boston, Mass.
 Fidelity & Casualty Co., 97 Cedar, New York
 Frankfurt Marine, Accident & Plate Glass In-
 surance Co., 153 LaSalle, Chicago, Ill.
 Gen. Accident Ins. Co., Philadelphia, Pa.
 London Guarantee & Accident Co., of London
 England; 315 Dearborn, Chicago, Ill., & 41
 Cedar, New York
 Maryland Casualty Co., Maryland Casualty
 bldg, Baltimore, Md., & 100 William, New
 York
 New Amsterdam Casualty Co., 76 William,
 New York
 Ocean Accident & Guarantee Corp., 350 B'way,
 New York
 Standard Life & Accident Ins. Co., Moffat bldg,
 Detroit, Mich., & 92 William, New York
TRAVELERS INSURANCE CO., Hart-
ford, Conn., & 31 Nassau, New York
 United States Casualty Co., 141 B'way, New
 York

Insurance (Health)

(See Insurance, Accident)

Insurance (Indemnity Bond)

Aetna Indemnity Co., Hartford, Conn.
 American Bonding Co. of Baltimore, Baltimore,
 Md.
 American Fidelity Co., Montpelier, Vt.
 American Surety Co., 100 B'way, New York
 Employers' Liability Assurance Corporation
 (Ltd.), of London, England, Samuel Apple-
 tou, Manager & Attorney for U. S., 33
 Broad, Boston, Mass.
 Fidelity & Casualty Co., 97 Cedar, New York
 Fidelity & Deposit Co., Baltimore, Md.
 Guarantee Co. of North America, 111 B'way,
 New York
 Lawyers' Surety Co., 66 Liberty, New York
 National Surety Co., 115 B'way, New York, &
 The Rookery, Chicago, Ill.
 Ocean Accident & Guarantee Corp., 350 B'way,
 New York
 Pacific Surety Company, San Francisco, Cal.
 U. S. Fidelity & Guaranty Co., Baltimore, Md.
 U. S. Guarantee Co., 111 B'way, New York

Insurance & Inspection (Elevator)

(See Insurance, Indemnity Bond)

Insurance & Inspection (Steam Boiler)

Casualty Co. of America, 52 William, New York
 Employees' Indemnity Co. of Philadelphia,
 Stephen Girard bldg Philadelphia, Pa.
 Fidelity & Casualty Co., 97 Cedar, New York
 Hartford Steam Boiler Inspection & Insurance
 Co., Hartford, Conn.
 Maryland Casualty Co., Maryland Casualty
 bldg, Baltimore, Md., & 100 William, New
 York
 Ocean Accident & Guarantee Corp., 350 B'way,
 New York
 Pacific Surety Co., San Francisco, Cal.
 Pennsylvania Casualty Co., Scranton, Pa.
 Philadelphia Casualty Co., Phila., Pa.
TRAVELERS INDEMNITY CO., Hart-
ford, Conn.; 1 Madison av., & 31 Nassau,
New York. (See adv. index, end of book)
 U. S. Casualty Co., 141 B'way, New York

Intensifiers

Bethlehem Steel Co., South Bethlehem, Pa.
 Philadelphia Roll & Machine Co. (Hydraulic),
 23d & Washington, Phila., Pa.
 United Engineering & Foundry Co. (Air, Hy-
 draulic & Steam, Compound or Double),
 Pittsburgh, Pa.
 Wood, R. D. & Co. (Hydraulic, Single & Multi-
 ple), 400 Chestnut, Phila., Pa.

*Intercoolers (Air)

INGERSOLL-RAND CO., 11 B'way,
 New York. (See adv. index & branch offices,
 end of book)

*Interior Building Trim (Steel, Bronze, Etc.)

AMERICAN METAL DOOR CO.,
 Jamestown, N. Y. (See adv. index, end of
 book)
DAHLSTROM METALLIC DOOR CO.,
 Jamestown, N. Y. (See adv. index, end
 of book)

*Interior Finish ("Beaver" Board)

BEAVER MFG. CO., THE, 228 Perry
 st., Buffalo, N. Y. (See adv. index, end of
 book)

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Interior Finish (Metal Covered)

(See Bauk & Office Fixtures, Metallic)

*Interior Finish (Metal Covered "Thorp-Richardson's")

THORP FIRE PROOF DOOR CO.,
 1600-1610 Central av. Minneapolis, Minn.
 (See adv. index & branch offices, end of book)

Interior Finish (Wholesale Mfrs.)

(See also Interior Hardwood Work Manufac-
 turers & Erectors)

Calmar Mfg. Co., Calmar, Ia.
 Chicago Mill Work Supply Co., Chicago, Ill.
 Compound Door Co., St. Joseph, Mich.
 Cream City Sash & Door Co., Milwaukee, Wis.
 Curtis & Yale Co., Wausaw, Wis.
 Cypress Lumber Co. (Wholesale Mfrs.), 88
 Broad, Boston, Mass., & Apalachicola, Fla.
 Dishrow, M. A. & Co., Lyons, Ia.
 Fitzgerald, Speer Co., Pen Argyle, Pa.
 Foster-Munger Co., 20th & S Sangamon, Chi-
 cago, Ill.
 Fuller & Rice Lumber & Mfg. Co., Grand Rapids,
 Mich.
 Gauger, J. A. & Co., W 22d & Ladin, Chicago, Ill.
 Gilmore, David, Mfg. Co., 579 Touawanda, Buf-
 falo, N. Y.
 Hafner Mfg. Co., Main & Dock, St. Louis, Mo.
 Hilgen Mfg. Co., Cedarburg, Wis.
 Huttig Mfg. Co., Muscatine, Ia.
 Hyde-Murphy Co., Ridgway, Pa.

Kalamazoo Interior Finish Co., Kalamazoo, Mich.
 Kertscher & Co., Elmira, N. Y., & 13 Law-
 rence, New York

Laird-Norton Co., Winona, Minn.
 Luick Bros. Co., Ann Arbor, Mich.
 McClelland, T. W. Co., Davenport, Ia.
 McMillen, R. Co., Oshkosh, Wis.
 Menasha Mfg. Co., Menasha, Wis.
 Morgan Co. Oshkosh, Wis.
 Nauman Co., Waterloo, Iowa
 Nesbit, D. M. Co., Lewishurg, Pa.
 North Vernon Lumber Co., North Vernon, Ind.
 Orcutt & Porter Co., Mechanicsburg, N. Y.
 Paine Lumber Co., Oshkosh, Wis., & 1 Madison
 av, New York
 Radford Sash & Door Co., 190 W 22d, Chi-
 cago, Ill.
 Redwood Mfg. Co. (Redwood & Oregon Pine,
 etc.), Oakland, Cal.
 Rhinesmith & Simonson, Fort Wayne, Ind.
 Riggs Cypress Co. (Cypress), Patterson, La.
 Roach & Musser Mfg. Co., Kansas City, Mo.
 Roach & Musser Sash & Door Co., Muscatine,
 Iowa
 Roberts, E. L. & Co., W 22d & Union pl,
 Chicago, Ill.
 Roberts, U. N. Co., Davenport, Ia.
 Rock Island Sash & Door Works, Rock Island,
 Ill.
 Rockwell Mfg. Co., Milwaukee, Wis.
 Roehr, C. Co., Bucyrus, O.
 St. Louis Sash & Door Works, Dock & Main, St.
 Louis, Mo.
 Seattle Cedar Lumber Mfg. Co., Seattle, Wash.
STEARNS, A. T. LUMBER CO. (Cy-
press), Neponset, Boston, Mass. (See adv.
index, end of book)
 Stuhlmiller Mautel Works, Buffalo, N. Y.
 Veit Mfg. Co., Grand Rapids, Mich.
 Wabash Cabinet Co., Wabash, Ind.
 Waccamaw Lumber Co., Bolton, N. C.
 Washburn, Williams & Co., Scranton, Pa.
 Whatcom Falls Mill Co. (Red Cedar), New
 Whatcom, Wash.
 Werheim Mfg. Co., Wausaw, Wis.
 Wheeler, Osgood Co. (Cedar), Tacoma, Wash.
 Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
 Winona Lumber Co., Winona, Minn.

Interior Hardwood Work (Mfrs. & Erectors)

American Car & Foundry Co. (Jackson & Sharp
 Plant), Wilmington, Del.
 Batavia & New York Wood-Working Co., Ba-
 tavia, N. Y.
 Banila, Garrell Co., Lakeport, N. H.
 Baumgarten, Wm. & Co., 323 5th av, New York
 Bishop, J. W. Co., 109 Foster, Worcester, Mass.
 Bohm Mfg. Co., 415 Rosabel, St. Paul, Minn.
 Bossert, Louis & Son, Grand & Newtown
 Creek, Brooklyn, N. Y.
 Bush Bros., Royersford, Pa.
 Calmar Mfg. Co., Calmar, Ia.
 Carr-Ryder & Adams Co., Dubuque, Ia.
 Chicago Mill Work Supply Co., Chicago, Ill.
 Curtis & Yale Co., Wausaw, Wis.
 Edmunds Mfg. Co., c S Robey & Washburne
 av, Chicago, Ill.
 Flint, Geo. C. Co., 45 W 23d, New York
 Freling Mfg. Co., 45 Centre, Cleveland, O.
 Goodlander, G. W., Kansas City, Mo.
 Hale & Kilburn Mfg. Co., Phila., Pa.
 Hands's, W. H. Sons, 2638 Park av, New York
 Harlan & Hollingsworth Co., Wilmington, Del.
 Hayden Co., 520 5th av, New York
 Hedden, V. J. & Sons Co., Newark, N. J.
 Heiland, J. H., 100 N Front, Quincy, Ill.
 Herts Bros. Co., 34 W 38th, New York
 Hess, D. S. & Co., 421 5th av, New York
 Hoffstatter, Theo. & Co., 589 5th av, New York
 Huttig Mfg. Co. (Wholesale Mfrs.), Muscatine,
 Ia.
INTERIOR HARDWOOD CO., In-
dianapolis, Ind. (See adv. index, end of book)
 Jobst, B. J., Paxton blk, Omaha, Neb.
 Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
 Kertscher & Co., Elmira, N. Y., & 13 Law-
 rence, New York
 Kilian Bros. & Somma, 12th av & 30th, N. Y.
 Kimbel, A. & Sons, 389 5th av, New York
 Kleeman, Wm. & Co., 619 W 54th, New York
 McConnell Mfg. Co., Hornell, N. Y., & 100
 5th av, New York
 McGonigle, James A., Leavenworth, Kan.
 McLeod, Angus Co., 409 6th av, S. Minneap-
 olis, Minn.
 Matthews Bros. Mfg. Co., Milwaukee, Wis.
 Miller, William & Sons Co., Rochester, Pa., &
 Frick bldg, Pittsburgh, Pa.
 Mitchell, Robert Furniture Co., Cincinnati, O.
 Moore, S. C. & Son, Kokomo, Ind.
 Northwestern Marble & Tile Co., Minneapolis,
 Minn.

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Cook County Court House, Chicago
Corn Exchange National Bank Building, Chicago
Blackstone Memorial Library, Chicago
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Continental Trust Building, Baltimore, Md.
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Brown's Palace Hotel, Denver, Col.
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Planters' Hotel, St. Louis, Mo.
The New Third National Bank Building, St. Louis
Hibernia Bank and Trust Co. Building, New Orleans, La.
Woodward Building, Birmingham, Ala.
First National Bank Building, Birmingham, Ala.
Brown Marx Building, Birmingham, Ala.
Keystone Bank Building, Pittsburg, Pa.
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Union Depot, Washington, D. C.
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av, New York

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Van Kannel Revolving Door Co. (Mfrs.), Home
Office, 524 E 132d, New York.

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qua, Pa.

Weybrecht's, J. T. Sons, Alliance, O.
Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.
Williamsport Planing Mill Co., Williamsport, Pa.

WILSON, JAS. G. MFG. CO., 3 W
29th, New York. Factory, Norfolk, Va. (See
adv. index, end of book)

Wolfinger, Clarence L., 164 LaSalle, Chicago, Ill.
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Elevator Enclosures.
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Grilles (Brass & Bronze).
Grilles (Wrought Iron).
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Buerger, August (Railings)
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SELMA—Peacock's Iron Works

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LITTLE ROCK—Thomas-Fordyce Mfg. Co.
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PINE BLUFF—Dille Foundry Co.

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Llewellyn Iron Works, N Main c Redondo
Los Angeles Art Metal Works
Peterson, A. A. Co., Stinson bldg
Union Iron Works, Molino c Palmetto
OAKLAND—Frauender Ornamental Iron Works
*White Ornamental Iron Works
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Sterne Bros. Co.

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Ajax Brass & Iron Works, 47 Clementina
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Architectural Iron & Bronze Works, 2669
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Central Iron Works 7th
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Enreka Iron & Wire Works, 148-50 12th
Golden Gate Structural Iron Works, 107 11th
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*Steiger & Kerr Stove & Foundry Co.
Todd & Peters, 322 Main
Vulcan Iron Works, Francisco & Kearney
Wagner, Ornamental Iron Works
Western Iron Works, 141 Beale

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end of book)

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Pioneer Iron & Wire Works Co., 1437 Mar-
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Wilson, Robert, 115 Commerce
Yale Safe & Iron Co., 52 Richards
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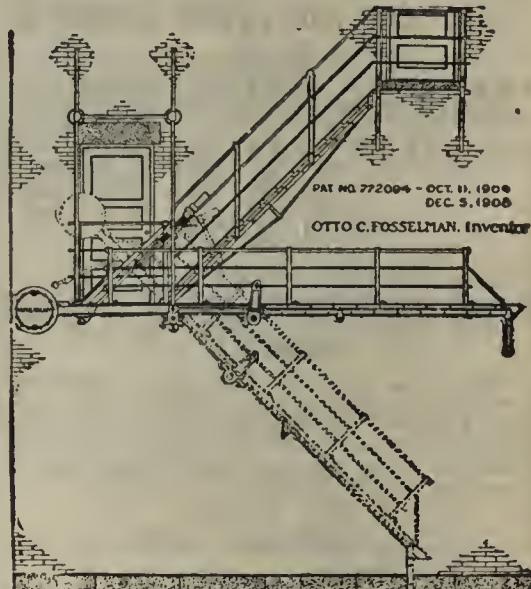
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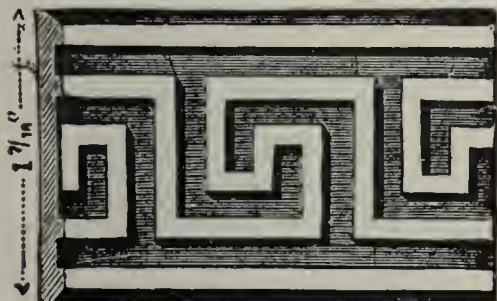
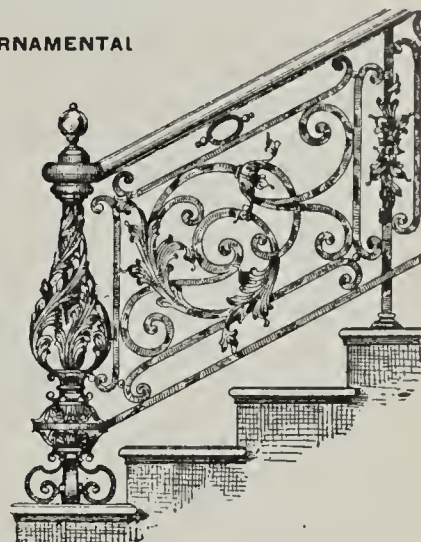
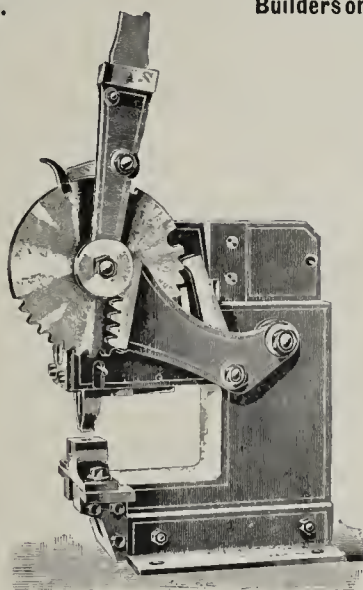
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LYNN—*Hayes Foundry Co.
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 Elwell, H. F. Iron Works, 26 Taylor
 Mill River Machine Shop
 *Springfield Foundry Co., 95 Liberty
 Springfield Iron Works, 108 Taylor
 Swaine, John
WORCESTER—Bishop, J. W. Co., 109 Foster
 Eastern Bridge & Structural Co.
 French, Richard Iron Works, 84 Union
NATIONAL MFG. CO., 19 Union.
 (See adv. index, end of book)
WRIGHT WIRE CO. (See adv. in-
dex, end of book)

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 Eliery
 Barnes Wire Fence Co., 777 Grand River av
 Barnum, E. T. Wire & Iron Works, 82
 Washington av

BOLLES, J. E. IRON & WIRE
 Works. (See adv. index, end of book)
 Chapper, Frank A. Iron & Wire Works, 195
 W Larned

*De Croupet Iron Works, 127 Brush
 Detroit Wire & Iron Works, 27 Jefferson av
 Fisher, Wm. P. Screen & Wire Works, 780
 Kercheval av

Hiescher, Wm. E., 38-40 B'way
 Ingalls, Wm. Wire & Iron Works, 59 E
 Kahl, Fred'k, 537 Atwater, E Woodbridge
 Lewis, Henry B., 45 Jos. Campau av
 Ornamental Iron & Wire Works, 90 Wood-
 Phoenix Wire Works bridge

*Rohns, Albert & Co., 193 Cass av
***RUSSELL WHEEL & FOUNDRY**
 Co. (Cast Iron Columns Only). (See adv.
 index, end of book)

Seiferlein, John C., 316 St. Paul av
VULCAN CO. (See adv. index, end
of book)

Western Wire & Iron Works, 384 Ash
 Whitehead & Kales (The), Iron Works,
 Beecher av M. C. R. R.
 Whittekin, Jos. Wire & Iron Works, 280
 18th

GRAND RAPIDS—Butterworth & Lowe, ft of
 Huron

*Grand Rapids Foundry Co., 227-47 Kent
 Grand Rapids Ornamental Iron & Wire
 Lettelt, Adolph Iron Works, 5 Erie Works
 Michigan Iron & Metal Co., 6-40 Alabama
 Rice, C. O.

KALAMAZOO—Clarage, Thos. & Son
 *Kalamazoo Foundry & Machine Co.

MUSKEGON—Rodgers Iron Mfg. Co.
PETOSKEY—*Burnett Foundry & Machine
 Works (Ltd.)

SAGINAW—Bartlett, A. F. & CO., 930 S Til-
 den, E S
 *Jackson & Church Co.

Koehler Bros.
 Mitts & Merrill, 1009 S Tilden, E S
 *Wilkes Bros., 512 N Tilden, E S

TRAVERSE CITY—Round & Son
WEST BAY CITY—Excelsior Foundry Co.

MINNESOTA.

ALBERT LEA—Veness, J. W.

DULUTH—National Iron Co.

LITTLE FALLS—Denis, John

MANKATO—Mankato Mfg. Co.

MINNEAPOLIS—*Crown Iron Works Co.

*Crown Iron Works Co., 1301 Tyler

Diamond Iron Works, 2d, E, & 18th av N

***FLOUR CITY ORNAMENTAL**

Iron Works, 27th st & 28th av. (See adv.
 index, end of book)

Kienzie-Merrick Mfg. Co., 1214 S 3d

Menzel & Jeffery, 315 9th av, S

Minneapolis Ornamental Iron Works, 401
 12th av, S W

***MINNEAPOLIS STEEL & MA-**

chinery Co. (Cast, Structural & Ornamen-
 tal). (See adv. index, end of book)

*Northwestern Foundry, 312 10th av, S

*Standard Foundry & Machine Shop, 1032
 3d av, N E

Union Iron Works, Main c 2d av, S E

***WINSLOW BROS. COMPANY.**

Andrus bldg. (See adv. index, end of book)

NEW PRAGUE—New Prague Foundry Co.

ST. CLOUD—St. Cloud Iron Works

ST. PAUL—Herzog Iron Works, 1044 E 7th

Lee & Huff Mfg. Co., 65 E Water

Reliance Iron & Wire Works

Perkins Mfg. Co., 1821 University av

Roberts-Goss Co., 4th c Pine

Robertson, J. G.

Scribner, Libbey Co., 219 W 5th

***ST. PAUL FOUNDRY CO. (Cast**

Structural & Ornamental), Como av &
 Mackubin. (See adv. index, end of book)

*South Park Foundry & Machine Co., Gil-
 Staples & Staples, 565 Decatur fillan blk

Twin City Iron & Wire Works, 106 E 5th

Valley Iron Works, 81 E Water, W, St.
 Paul Levee, E

Western Machine Mfg. Co.

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CARTHAGE—*Carthage Fdy & Machine Works
CHILLICOTHE—Way, Frank Foundry & Machine Co.

KANSAS CITY—Kansas City Structural Steel Co., 302 Postal Telegraph bldg
Kansas City Wire & Iron Works, 1430 Oak
Smith, James, 103 W 8th
Standard Shutter & Iron Works, 1935 Central
Standard Wire & Iron Works, 407 S West
boul

ST. JOSEPH—*Berry Foundry & Mfg. Co., 5th
c Walnut
Crowthers & Rogers Mfg. Co., 8th & Mes-
sanie
Garvey & Co., 600 S 7th
Jamieson Machine Co.

ST. LOUIS—*American Car & Foundry Co.
(Castings Only)
American Fire Escape Co., 3941 Forest Pk.
boul

Banner Iron Works, Shaw av & Oak Hill ry.
Central Wire & Iron Works, 813 S 7th
Century Iron Works, 11th & Walnut

*Christopher & Simpson Arch'l Iron & Foundry Co., 811 Park av
Flower City Ornamental Iron Works, 112 N
4th

Galt & Meysenburg, 922 Chemical bldg
Griffiths Iron Works Co., 811 N 10th
Guerdan, Francis & Son, 829 S 7th
International Steel Post Co., 717 Chestnut
*Koken Iron W'ks, 1012 Old Manchester rd
Lasar-Letzig Mfg. Co., 16th & O'Fallon
Ludlow-Saylor Wire Co., 600 S Newstead
av

Mechanics' Iron Works, 903 S Ewing av
Mesker & Bro., 423 S 6th
Missouri Bridge & Iron Co., 122 N 7th
National Iron Works, 18th & Brady av
Ornamental Wire & Iron Co., University, c
Ellicott av
Schurk Iron Works, 323 S 14th

St. Louis Architectural Iron Co., DeKalb
& Lesperance
St. Louis Wire & Iron Co., 512 Chouteau av
*South St. Louis Foundry, 7514 S B'way
Spuck Iron & Foundry Co., Branch & 14th
Stupp Bros., Bridge & Iron Co., Weber rd
*Union Iron & Foundry Co., 1458 S 2d
Usona Wire & Iron Co., 1909 Locust
Victor Iron Works, 2417 S 7th
*Western Foundry & Sash Weight Co. (Cast-
ings), 159 Miller

***WINSLOW BROS. COMPANY,**
Century bldg. (See adv. index, end of
book)

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
BUTTE—Montana Iron Works.
*Western Iron Works.
GREAT FALLS—Great Falls Iron Works
HELENA—Calder Engineering Works

NEBRASKA.

BEATRICE—Beatrice Iron Works
FREMONT—*Fremont Foundry & Machine Co.
LINCOLN—Hedges, C. E.
Smith, R. L., Machine Works.
OMAHA—Champion Iron & Wire Works
*Paxton & Vierling Iron Works, S 17th & U
Wearne Bros., 1409 Jackson
YORK—*York Foundry & Engine Works

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CONCORD—*Concord Foundry & Machine

NEW JERSEY.

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Pettit, Frank
BAYONNE—Clark, W. M. Iron Foundry
CAMDEN—Brown & Getty
MERRITT & CO., 94 Arch. (See
adv. index, end of book)

Olden, Herman
EAST ORANGE—Collinson, Joshua
ELIZABETH—Moore, S. I. & Sons Co.
HOBOKEN—Buchholtz, C. & Co., 73 Adams
*Fagan Iron Works, 309 Jefferson
JERSEY CITY—*Fagan Iron Works, 14th st.
Feudtner, Jacob & Co., 383 7th
Hamill, Alex., 426 Montgomery

Payne, John A., 260 Culver av

***SNEAD & CO. IRON WORKS, ft.**
of Pine, (See adv index, end of book)
MADISON—Force, Chas. & Son
NEWARK—American Coal Shute Co. & Archi-
tectural Iron Co. (Inc.), 14 Buffington av
Berlin Construction Co., 22 Clinton
Branch Brook Iron & Wire Works, 346
Orange

Burns, Thomas & Son, 201 Commerce
Calumet Iron Works, Newark, N. J.
Clements Iron Works, 29 Wright
Frank, John, 21 Prospect
Friedman, M. & Co., 96 Somerset
Goldberg, E., 147 Howard
Goeller Iron Works (Inc.), 394 Treling-
huysen av

Gottlieb, Henry, 75 Waverly av
*Hay Foundry & Iron Works, Plumb Point la
Hedden Iron Cons. Co., 22 Clinton
Industrial, Wire & Metal Works, S Bloom-
Katchen, B., 84 13th av field av
Koller, E. L., 276 Sussex av
Lienau's, C. C. Sons Co., Newark, N. J.
*Metcalf, Jas. & Co. (Castings Only), 126
Polk

Smith's, Albert Sons, 73 N. J. R. R. av
Solbrig, Fred., 28 Bergen
Talkowsky & Gavrin, 35 Lewis
Universal Patents Mfg. Co., 104 N. J.
R. R. av

NEW BRUNSWICK—*Empire Foundry Co.

ORANGE—Bulkley, H. W.
PATERSON—Bogert-Carlough Co.
*Eastwood, Benj. Co. (Builders' Castings
Lendrim, H. C., 82 Clay Only)

PLAINFIELD—Kirk, William T.
TRENTON—Baker, W. H., Mulberry st
*MacKenzie's, Duncan Sons Co.
WEST HOBOKEN—Courtman, Walter F.

NEW MEXICO.

ALBUQUERQUE — *Albuquerque Foundry &
Machine Co.

NEW YORK.

ALBANY—Campbell, Harry E. Co.
Frey, Hy., 502 2d
Hartnett, John J. (Castings Only)
*McKinney, J. & Son
Page's, Isaiah Sons, 58 Liberty

**NOTICE.**

This book contains complete lists of the manufacturers and fabricators of every article made from iron and steel. For the particular specialty required, see Index of Contents. If any exception to the truth of this statement is found in consulting the columns of our Commercial Register, kindly advise and we will supply the deficiency.

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74 LAFAYETTE STREET,
NEW YORK, N. Y.

AUBURN—Crane, W. W.
 BINGHAMTON—Shapley & Wells
 BROOKLYN—(See New York City, Borough of Brooklyn)
 BUFFALO—Buffalo Structural Steel Co., 166 Dari

Buffalo Wire Works Co., 316 Terrace
 *Ernst's, Charles F. Sons, 65 Lathrop
 Felue, August, 152 Terrace
 Harrower, H. C. Co., 35 Court
 Jones Iron Works, 308 Terrace
 *Kellogg Iron Works, Mutual Life bldg
 *Standard Foundry Co., 48 Lakeview av
 Washington Iron Works, 409 Pratt
 Wurtz & Son (Structural Iron Contractors), 23 Lloyd

COHOES—Cohoes Iron Foundry & Machine Co.
 JAMESTOWN—*Eagle Foundry & Machine Co.
 LONG ISLAND CITY—(See New York City, Borough of Queens)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Ajax Iron & Wire Co., 75 York
 Albee & Godfrey Co., 215 Norman av
 Auer, John, Jr., 199 Middleton
 Bartley, T. J. & Co., 75 Guernsey
 Bassett, A. Iron & Wire Works, Wythe av
 Berger Iron Works, 135 51st c Heyward
 Binney & Godfrey, 40 Rodney
 Bloom, Jacob, 225 Leonard
 Brooklyn Architectural Iron Works, 97 22d
 Borough Wire, Iron & Brass Works, 337 Adams

CHILD, W. C. W., 355 Kingsland av. (See adv. index, end of book)
 Clarke & Stowe, 221 Greenpoint av
 Dannemann, A. M., 126 Central av
 Dugro, Philip & Son, 132 Ten Eyck
 Duvinage, Pierre & Co., 498 Leouard

*Eagle Iron Works (Inc.), 850 DeKalb av
 Eastern Iron Works, 1470 Myrtle av
 Felgenhauers, E. Sons, 782 Wythe av
 Fluegel, Antou, 219 Cook
 Gordon, A. & Bro., 1046 Myrtle av
 Gratz, George, Jr., 1141 DeKalb av
 Green, B. G., 213 Pacific
 Greuburg & Schlecker, 559 Stone av
 Grosback, Wm. & Co., 37 Maspeth av
 Hacker, Bryan, 73 N Portland av
 Hassler, Fred'k, 2 Sullivan
 *Hecla Iron Works, 118 N 11th
 Hloff, Herman J., 536 Hamilton av
 Janssen, Bernard H. & Son, 135 Huron
 Jones-Le Barou Prism Co., 143 Marlon
 Kensington Iron Works, 414 3d av
 Klein & Reiser, 331 Rockaway av
 Knight, John J., Midwood n Albany av
 Lister & Fee, 33 S 5th
 Lythgoe-Peter, 5610 2d av
 McMahon, James W., 237 Navy
 McMurray, Robert T. & Bro., 365 Harman
 May, Jacob, 850 De Kalb av
 Marcus, Harry, 233 Van Sinderen av
 Meyer & Anselm, 173 Van Sinderen av
 Mullen Bros., 315 S 3d
 Nahan & Pinson, 56 Gerry
 Olsen, O. N., 203 Dlamoud
 Phillips, Abraham A. Jr., 2219 Pitkin av
 Pirkil, John, Iron Works, 240 N 10th
 Poppke & Son, 805 Lexington av
 Powell, John R., 500 Leonard
 Progressive Iron Works, 129 Atkins av
 *Reliance Arch'l Iron Works, 253 Monitor
 Ridgewood Iron Works, 100 Wyckoff av
 Rothamel, Frederick & Son, 270 Knickerbocker av
 Schwenn, Wm., 850 Lexington av
 Shapiro & Terker, 1111 Flushing av
 *Shimpon Foundry Co. (of all kinds), 26
 Sokoloff, Jacob, 217 Miller av
 Standard Wire & Iron Works, 846 Grand

Steckenreiter, John F. Iron Works, Calyer & Jewell
 Stein & Koslowsky, 11 Tompkins av
 Strubel, Barbara, 100 Wyckoff av
 Thiede, Ferdinand H., 78 Smith
 Webb & Bloss, 251 Moulton
 Whale Creek Iron Works, Calyer & Moultrie

Boroughs of Manhattan & Bronx.

NEW YORK—Ackerman, Martin, 156 Av D
 Adelstine & Avrutline, 82 Rutgers
 Adolf, August M., 2078 1st av
 Ahr, Anton, 701 Elton av
 Ahr, Henry, 444 E 148th
 Alexander, W. J. & C. Co., 11 Thompson
 *American Car & Foundry Co. (Castings Only), 165 B'way
 American Ornamental Iron Works, 1494 2d av

ANCHOR POST IRON WORKS, 147

Nassau. (See adv. index, end of book)
 Automatic Door & Gate Co., 123 Liberty
 Bagge, Ernest Iron Works, Boul. & E 144th
 Bankers' Safety Wicket Co., 231 B'way
 Bartsch, Chas., 160 W 99th
 Bayer, Charles Co., 408 E 125th
 Becker, Hans, 318 E 48th
 Becker & Goldberg, 330 Rivington
 Berlin Construction Co., St. Paul bldg
 *Bethlehem Foundry & Machine Co. (Cast & Wrought, of South Bethlehem, Pa.), 149 B'way

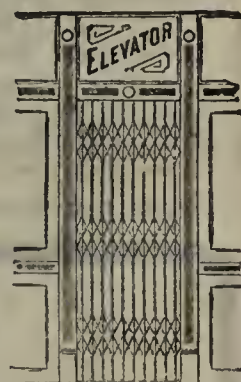
Blackman, H. & J. Fagen, 73 Montgomery
 Borkstrom, Oscar G., 225 E 148th
 Bowes Jun., J., 227 W 29th
 Bronx Iron Works, 518 Wales av
 *Brown-Ketchum Iron Works (of Indianapolis, Ind.), 1170 B'way
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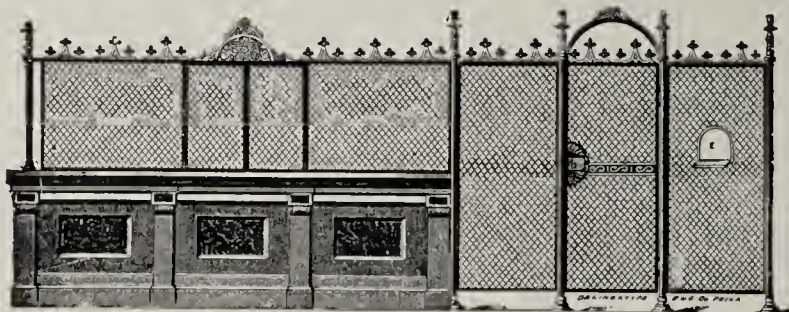
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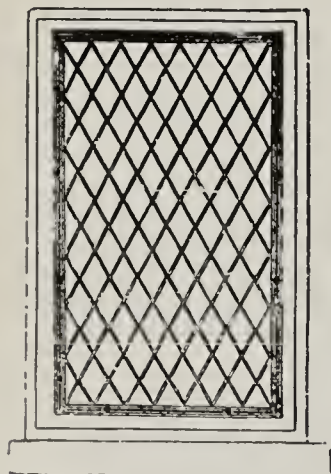
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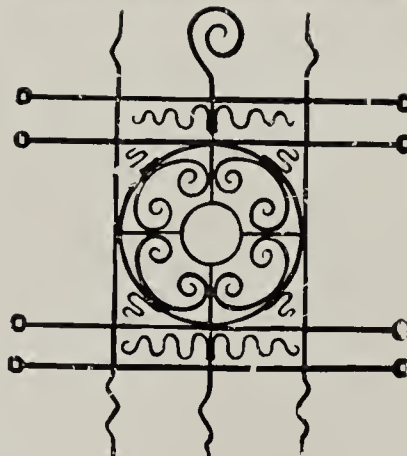
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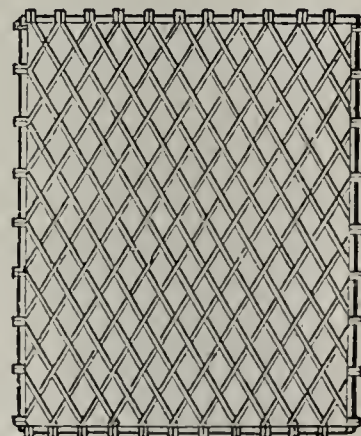
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CHILD, W. C. W., 1 Madison av.
 (See adv. Index, end of book)
 Clark, Jos., 349 W. 48th
 Clark, Peter, 406 W 30th
 Clausen, H. C. Iron Works, 508 E 74th
 Cooper Iron Works (Jno. Cooper, Prop.), 1
 Madison av
 *Cornell, J. B. & J. M. Co., 26th & 11th av
 Dahm, Henry, 517 W 45th
 Deys Architectural Iron Works, 517 W 46th
 Dimond, Thomas, 45 W 34th
 Dudley, Jas. H., 628 Westchester av
 Duke Iron Works, 320 E 95th
 Duvalage, Pierre, 253 B'way
 Eagle Iron Works, 403 E 117th
 Eagle Wrought Iron Works, 580 Robbins av
 East Side Iron Works, 1399 Av A
 Eastern Iron Works, 218 Av A
 Edelmann, L., 319 E 94th
 Egan, Joseph, 306 W 68th
 Elsner Bros., 654 E 12th
ESTEY BROS. CO. (Also Bronze &
Wire Work), Liberty & Greenwich. (See
adv. index, end of book)
ESTEY WIRE WORKS CO., 59
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 Fassler & Hirschel, 593 Grand
 Fiske, J. W. Iron Works, 56 Park pl
 Friedman, David, 806 5th
***G. & W. MFG. CO., 26 Cortlandt.**
 (See adv. Index, end of book)
 Gehrle, Herman, 69 Rutgers Slip
 Gersmann, Rud., 21 E 137th
 Goemann & Sisti, 462 E 10th
 Goldberg Barnet, 806 5th
 Gordon, A. & Bro., 188 Monroe
 Graf, Martin, 279 Avenue B
 Grossman Bros. & Rosenbaum, Willow av
 & E 133d
 Hafers, Chris Iron Works, 407 W 37th
 Halback, C. E. & Co. (Inc.), 27 E 21st
 Hammer, John, 436 E 71st
 Happel, Adam, 1801 1st av
 Harris Safety Co. (of Youngstown, O.), 39
 E 20th
 Hausser, Joseph, 2323 2d av
 Hay Foundry & Iron Works, 114 E 28th
 Heffner & Grill, 749 9th av

Hendrik, Hindson Iron & Steel Works, 515
 Hinkle Iron Co., 534 W 56th W 56th
 Hoehn, Wm., 218 W 20th
HOWARD & MORSE (Ornamental
for Interiors), 45 Fulton. (See adv. fac-
ing first page of Index of Contents)
 Ilch, Auson G., 1123 B'way
JACKSON, WM. H. COMPANY, 29
 E 17th (Union sq). (See adv. index, end
 Johnson, J. S. & Co., 68 Broad of book)
 Jordis, John J., 430 E 110th
 Kaplan, Alter, 209 Clinton
 Koehn, Alfred, 157 W 29th
 Kushakaw, Jacob, 49 3d av
 Lange & Co., 423 E 22d
 Leveling & Garrigues Co., 552 W 23d
 Levine & Posner, 527 E 119th
 Liberty Iron Works, 462 10th av
 Lieberman & Sanford Co., 629 W 57th
 Lobel-Andrews Co., 531 W 55th
 Luetkes Iron & Brass Works, 227 W 29th
 *McDougall & Potter Co., 606 W 55th
 Manhattan Iron Works, 302 E 98th
 Marsh, Thos. J. Iron Works, 119 E 23d
 Melrose Architectural Iron Works, 225 E
 Milliken Bros., 11 B'way 148th
 Mott, J. L. Iron Works, 118 5th av
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 *Murray Hill Iron Works Co., 212 E 37th
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 1 Madison av
 Pearson, S. P. & Co., 325 E 97th
 Pfeiffer Bros., 473 G'w'ch
 Pierson & Co., 29 B'way
 Pinals, Louis, 97 Madison
PITT, WM. R. COMPOSITE IRON
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Guards), 136-138 W 24th. (See adv. Index,
end of book)
 Prince Iron Works, 555 W 33d
 *Radley, John J. & Co., 624 B 19th
 Rahtz, Henry & Co., 20 E 138th
 Realty Iron Works Co., 290 W 11th
 Reissler & Kilne, 819 E 91th
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 Sanders & Barnett, 447 S Boul
 Savitzky & Golomb Co., 65 Park
 Scherbner, Paul Iron Works, 306 E 123d
SCHREIBER, L. & SONS CO. (of
Cincinnati, O.), 1133 B'way. (See adv.
Index, end of book)
 Simons & Mayer, 143 Av D
 Spence, Peter C., 422 E 62d
 Stelzel, Bruno, 142 W 24th
 Stolz, Joseph, 22 E 138th
 Taylor, Jas., 223 Mercer
 Thompson, Hervey, 176 E 119th
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 351 Madison av
 Tuttle & Bailey Mfg. Co. (Cast), 83 Beekman
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O.), 11 B'way. (See adv. Index, end of
book)
 Uris, Harris, 525 W 26th
 Veeder, Frank, 368 E 154th
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 Vulcan Iron Works, 45 B'way
 Wells Architectural Iron Co., 219-221 E 144th
 Westervelt, A. B. & W. T., 102 Chambers
 Westing, Theo. (Est. of), 449 W 41st
 Williams, George A. & Sons, 85 Fulton
 Williams, John (Inc.), 556 W 27th
 Wills & Marvin, 1170 B'way
***WINSLOW BROS. COMPANY (of**
Chicago, Ill.), 163 Park av. (See adv.
Index, end of book)
 Zimmerman, L. J., 279 E 148th

Borough of Queens.

LONG ISLAND CITY—Hawkins Iron Works
 Just, Geo. A. Co., 239 Vernon av
 Sandblom Iron Works, 205 Borden av
 MASPETH—(New York City)—*Richey, Browne
 & Donald (Inc.)
 (End of New York City)
 ROCHESTER—*Heughes, F. L., 190 South av
 Kohlmetz, Chas. E. & H. L., 178 N Water
 SYRACUSE—Dunning, W. D., 329 W Water
 *Smith & Caffrey, Props. (Phoenix-Porter
 Foundry), 1421 N Salina
 TROY—*Mahony Mfg. Co., 5th av. cor Liberty
 UTICA—Jones, Wills H., 70 Hotel
 Stelbruecker, Geo., 183 Columbia
 WATERTOWN—Wilson, J. C.
 YONKERS—Morris, Thos.



IMPORTANT



When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible.

S. E. HENDRICKS CO.,
 74 LAFAYETTE STREET,
 NEW YORK, N. Y.

NORTH CAROLINA.

ASHEVILLE—*Asheville Supply & Foundry Co.
 CHARLOTTE—*Mecklenberg Iron Works
 GREENSBORO—Glascock, G. T. & Sons
 Sergeant Mfg. Co.

NORTH DAKOTA.

FARGO—*Fargo Foundry Co.
 Fargo Iron & Metal Co.

OHIO.

AKRON—Burger Iron Co.
 Ornamental Iron Works Co.
 *Tapiin, Itiee & Co.
 ASHTABULA—Barber Mfg. Co.
 BELLEFONTAINE—Beilefontaine Bridge & Steel Iron Co.

CANTON—*CANTON FOUNDRY & MACHINE Co. (Castings, Columns, Sills, Base Plates, etc.) (See adv. index, end of book)

COLUMBIA IRON & WIRE WORKS
 Co. (See adv. index, end of book)

CINCINNATI—Cincinnati Iron Fence Co., 3300 Spring Grove av

CINCINNATI MFG. CO. (Ornamental), 1243 W 6th. (See adv. index, end of book)

Columbia Iron Works, 721 Reading rd
 Davis & Siehl, 4032 Hamilton av
 Ezbers, Geo. H. & Bro., 228 E 7th
 Frelinger, J. H., 117 W 2d
 Grimm Ig. & Co., 153 E McMicken
 Kaiman, Walter, Spring Grove av, Mon-
 Lang, Wm. & Sons Co., 1311 Clay mouth
 Ley, H. & Co., Harrison av & B. & O. S.
 W. R. R.

Nimmo Fence & Wire Works Co., 305 E
 Potthoff, W. F. Co., Front & Harriet 4th

Rowekamp Bros., 2620 Colerain av
 Schoensberg, Fred., W 8th nr Dvaus
SCHRIEBER, L. & SONS CO., 8th &
 Eggleston av. (See adv. index, end of book)
 Schumacher, Jno. H., 1446 Main
 Standard Grille & Fence Co., 1610 Freeman av

Stewart Iron Fence Co., 17th & Madison av
 *Union Iron Works Co., 3323 Colerain av
 Ward, Wm. E. & Co., 1347 Central av

CLEVELAND—Anchor Fence & Mfg. Co.
***BROOKS, T. H. & CO. (See adv. index, end of book)**

Central Wire & Iron Co., 522 Prospect, N W
 *City Foundry Co. (Castings)
 Cleveland Art Metal Co.
 Cleveland Iron Works Co.

East End Iron & Wire Works
FOREST CITY STEEL & IRON
 Co., 110th nr Detroit av (See adv. index, end of book)

Kirchner's Iron Wire & Bronze Works, 1149 Norwood rd, N E

*Madison Foundry Co. (All kinds of Bulld-
 ers' Castings), 935 Addison rd, N E
 National Iron & Wire Co., 3901 Hamil-
 ton av, N E

Republic Structural Iron Works Co., 1270
 E 53d, N E
 Sheer Bros. Fence & Iron Co. (The), 715 E
 103d, N E

Stevens Iron Works & Fireproofing Co., 702
 New England bldg

TYLER, W. S. CO. (See adv. index, end of book)

Union Wire & Iron Co., 224 High av, S E
***VAN DORN IRON WORKS CO.,**
 2685 E 79th. (See adv. index, end of book)

*Variety Iron & Steel Works Co., E 40th c
 Hamilton

COLUMBUS—*Caldwell-Drake Iron W'ks (Inc.)
 Columbus Structural Steel Co.

COLUMBUS WIRE & IRON WKS.
 Co. (See adv. index, end of book)

*Hayden, P. Saddlery Hardware Co.

Kanode, Henry D.

Krumm, Martin

*McDonald Bros. (Cast Iron), 108 Liberty

Morris, C. E. Co., Curtis & Jefferson avs

Nickel, J. A., 310 Dublin av

Ohio Elevator & Machine Co.

DAYTON—American Fence & Forge Co.

City Forge & Iron Works (Andrew Plocher,
 Lyon, C. H., 415 W. B. bldg Prop.)

*Ohio Foundry Co. (Castings)

FINDLAY—McArthur Geo.

FREMONT—*Lehr Agricultural Co.

HAMILTON—MEYERS, FRED. J. MFG.
 Co. (See adv. index, end of book)

KENTON—*CHAMPION IRON CO. (See
 adv. index, end of book)

LIMA—East Iron & Machine Co.
 MANSFIELD—Schnitzer, F. F. & Son

MARIETTA—*Pattin Bros. Co. (Castings, etc.)

MIDDLETOWN—Shartle Bros. Machine Co.

SANDUSKY—*Klotz Machine Co.

Mack Iron Works Co.

SPRINGFIELD—*Bayley, Wm. Co.

*Hennesey Foundry Co.

Peet & Shuster Co., 28 S Fountain av

TOLEDO—Art Wire & Iron Works, 2113 Can-
 Braunschweiger Bros., 40 Erie ton

Donovan Wire & Iron Co.

HEARTLEY MACHINE, VARIETY
 Iron & Tool Works. (See adv. index, end
 of book)

*Toledo Foundry & Machine Co. of book)

Toledo Wire & Iron Works

WILMINGTON—Champion Bridge Co.

YOUNGSTOWN—Youngstown Wire & Iron Co.

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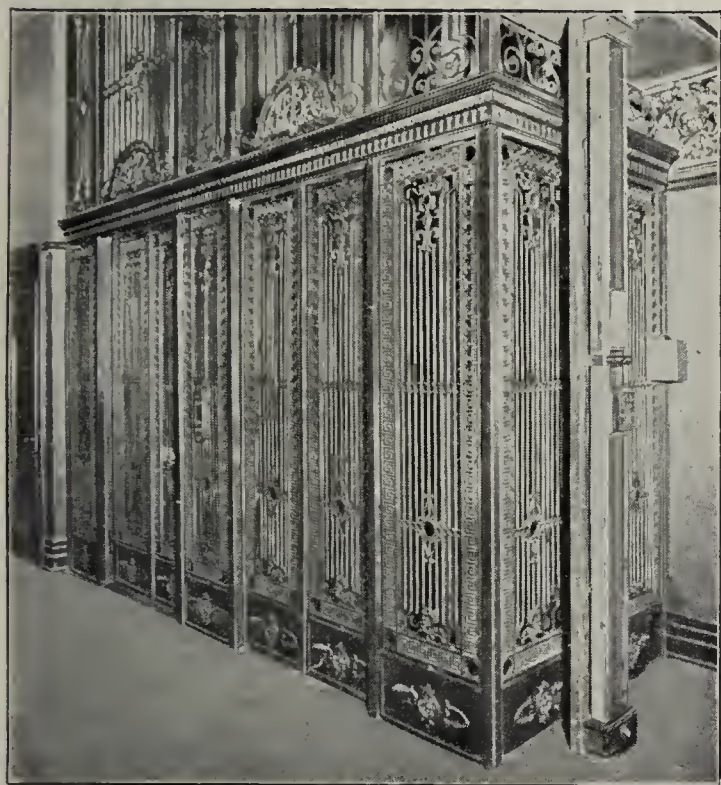
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EUGENE—Fraser, G. N.
PORTLAND — *Honeyman Hardware Co., c
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Pacific Bridge Co., end Buruside Bridge
*Pacific Iron Works
Phoenix Iron Works, E Water c E Madison
*Portland Iron Works, 495 Northrup
Smith & Watson Iron Works, ft Hall

PENNSYLVANIA.

ALLENTOWN—*Hanlon, John J.
BLOOMSBURG—*Harman & Hassert (Inc.)
BRADFORD—*Caldwell, E. R. & Co.
CATASAUQUA—*Davies & Thomas Co. (Builders' Castings Only)
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ERIE—*Ball Eugene Co.
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*Hempfield Foundry Co.
HOLLIDAYSBURG—Curran Bros. (Iron Fences, etc.)
*McLanahan Stone Machine Co.
LANCASTER—Rote, A. B. & Co.
LEBANON—*Wlemer Machine Works Co.
McKEESPORT—*Monongahela & Yough Foundry Co.
MAUCH CHUNK—Stroh, Wm. H. & Son.
NEWSIDE—Peters, F. N. & Bro.
PHILADELPHIA—*Adams, Wm. Foundry Co. (Inc.), 960 N 9th
Allen Iron & Steel Co., 3rd & Venango
Anchor Boller Works, Montgomery av & Aubel, F. & E., 2520 N 9th Hancock
*Balzley, Jno., Iron Works, 514 S Del av
Bancroft, Chas. P., 1109 Locust
Barnes, Winfield S. & Co., Witherspoon bldg.
*Belmont Iron Works, 22d & Wash'n av
*Biggin, C. P. Co., 1829 Harlan
Boureau, H. W. & Co., 3302 Ludlow
Cantrell & Co., 112 S 4th
Clopp, Geo. B., 3719 Filbert
Columbia Iron Works, 618 N 4th
*Coyle, H. B. Iron Works, 622 Filbert
*Creswell, Sam'l J. Iron Works, 23d & Cherry
DARBY, EDW. & SONS CO., 239
Arch. (See adv. Index, end of book)
Duckworth, Wilmer E 44th c Lancaster av
Fechters, L. M. Sons, 942 N American
Gaumer, John L. Co., 22d & Wood
Gensel, Fred'k & Co., 911 Vine
Gilmour, George J. 5849 Osceola, Gtn
Glard Iron Works, 22d & Master
Hannum, Harry, 2642 Coral
Heberle, Eugene, 56th & Vine
Hitzeroth, Edward Novelty Iron Works, 3120 Market
Hoag, R. C. & Co., 1136 Catharine
Horrocks Iron Works, 234 N Broad
Hes, George F., 90th c Laycock av
Industrial Iron Works, 913 Vine

Jahn, Wm. R., 3205 Germantown av
Jones, J. C., 1215 Filbert
Kemper Cons. Co., Stephen Glard bldg
Keystone Structural Co., Harrison bldg
Lee, Benjamin, 503 Summer
McArdle, Wm. H. & Son, 513 Balnbridge
Midland Metal Co. (Inc.), 21st & Jefferson
Novelty Iron Works, 3120 Market
O'Neil, Michael, 1531 Filbert
Ornamental Iron Works, 919 S 46th
Peters, Jas. & Son, 1934 N Front
Pettit, David, Betz bldg
Pettit, Frank, 805 Master
Philadelphia Art Metal Works, 328 Noble
Philadelphia Hedge Co., 817 Arcade bldg
Reliable Iron Works, 2650 N Hutchinson
REMPPIIS, WM. F. CO., 1506 Sansum. (See adv. Index, end of book)
Richmond & Co., 1908 Market
Smith, A. L. & Co., 228 N Clarion
Sobers, Jacob, 1121 N American
*Stewart & Stevens Iron Works, 9th c Montgomery av
Sutton, W. A. & Co., 925 N 19th
Temple, Ornamental & Structural Iron Works Co., 308 Harrison bldg
Thompson Bros., 112 Broad
*Thompson, J. & Co., Van Horn c Sophla
Turner, Henry, 4737 N Front
Ward, Joseph, 339 Church la, Gtn
Wark, W. E. & Co., 16th & Chestnut
Washington Iron & Steel Co., 2524 Washington av
Wayne Iron Works (Inc.), Arcade bldg
PITTSBURG—Albree, Chester B. Iron Works, North Side
Buechle & Davis, 4127 Liberty av
Cornwall, E. & Co., 709 Sarah
Hamilton & Lindenfelser, 22d & Mulberry av
Hanny, Chas. G. & Co., 856 North av
*Marshall Foundry Co. (Builders' Castings)
***PHOENIX STEEL CO. (Inc.), Putnam & P. R. R.** (See adv. Index, end of book)
Pittsburg Perfect Fence Co., 1900 Frick bldg
Reincke-Wagner Pump & Supply Co., 420 1st av
RIESECK, P., Allegheny av & Rebecca, North Side. (See adv. Index, end of book)
*Rosedale Foundry & Machine Co., s Washington & Preble avs
SOMMERVILLE IRON & BRONZE Co., 5637-5649 Butler. (See adv. Index, end of book)
Stewart-Holland Co., 324 4th av
TAYLOR & DEAN, Penn av & 25th. (See adv. Index, end of book)
TYLER, W. S. CO., Bessemer bldg. (See adv. Index, end of book)
Vilsack, Martin Co. (Ltd.), 3222 Penn av
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POTTSTOWN—Weller, M. D.
READING—Klefer, W. L., 233 S 8th
Reading Scale & Machine Co. (Ltd.)
REMPPIIS, WM. F. CO. (Plain & Ornamental). (See adv. Index, end of book)
Snader, Paul R.

ROYERSFORD—Keystone Structural Co.
SCRANTON—*Fluch Mfg. Co.
SOUTH BETHLEHEM—*Bethlehem Foundry & Machine Co. (Cast & Wrought), Front
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WILKES-BARRE—Eagle Iron Works
*Vulcan Iron Works
Wilkes-Barre Iron Mfg. Co.
YORK—*Smyser, Royer Co.

RHODE ISLAND.

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Commercial Iron Works (Inc.)
Providence Ornamental Iron Works
Providence Steel & Iron Co. (Cast & Wrought)
Tower, Jas. H., 48 Borden

SOUTH CAROLINA.

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*Riley, J. F. Foundry & Machine Works, S
*Riverside Iron Works, Concord South
*Valk & Murdoch Iron Works
SPARTANBURG—Morgan Wood & Iron Works

SOUTH DAKOTA.

SIOUX FALLS—Pankow Bros.

TENNESSEE.

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*Chattanooga Car & Foundry Co., 401 Boyce
Chattanooga Iron & Wire Works
*Chattanooga Roofing & Foundry Co.
Eureka Supply Co.
JACKSON—*Southern Engine & Boiler Works
KNOXVILLE—*Fair Foundry Co. (Inc.)
*Knoxville Foundry & Machine Co.
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Livermore, F. & M. Co., 160 Adams
Memphis Wire & Iron Works, 140 S 2d
Pidgeon, Thomas Iron Co., 226 2d
Tennessee Wire & Iron Works, 168 N 3d
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Rock City Iron Works
Stewart & Bruckner

TEXAS.

AUSTIN—Clark, L. P.
*Tlps. Walter Foundry
DALLAS—Harry, O. K. Steel Works
*Mosher Mfg. Co., 313 S Lamar
FORT WORTH—Enterprise Iron Works
*Van Zandt-Moore Iron Works
GALVESTON—Walsh & Cleary, 213 25th
Walsh & Cleary, 213 25th
HOUSTON—Berger, A. A.
*Dickson Car Wheel Co.
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 *Richmond Iron Works, Broad & 15th
 Richmond Mfg. Co.
 Richmond Pattern & Structural Iron Works
 Tredegar Iron Works
 ROANOKE—*Virginia Bridge & Iron Co.

WASHINGTON.

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 *Variety Iron Works
 SPOKANE—*National Iron Works, Inc.
 Simmons & Son
 Spokane Ornamental Iron & Wire Works
 *Union Iron Works (Inc.)
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 Puget Sound Iron & Steel Works
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 & Wire Works. (See adv. Index, end of book)

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 DE PERE—Western Steel & Iron Works (Steel
 Gates, Fences, etc.)
 EAU CLAIRE—*Phoenix Mfg. Co.
 LA CROSSE—Smith Mfg. Co.
 Torrance, John & Son
 MADISON—*Kling & Walker Co.
 Kupter, Theodore
 MILWAUKEE—American Bridge Co., 17th &
 Badger Wire & Iron Works St. Paul av
 Bayley Structural Iron Co.
 Colmk, C. Mfg. Co.
 Globe Wire & Iron Works, Atkinson av
 *Greendale Foundry Co., Jackson & Corcoran av
 Hackendahl & Schmidt, 1515 St. Paul av
 Hennecke, C. Co., 278 B'way
 Model Iron & Wire Works
 National Iron & Wire Works
 Pletsch, Ferdinand, 617 Cedar
 Standard Iron & Wire Works
 Stehling, C. H. Co., 508 Commerce
 Union Iron & Wire Works
 Wagner, A. F., 514 Market
 West Side Architectural Iron Works
 Wisconsin Bridge & Iron Co.
WISCONSIN IRON & WIRE
 Works, 190 E Water. (See adv. Index,
 end of book)
WORDEN-ALLEN CO., P. O. Box
 528. (See adv. Index, end of book)
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 Alabama Iron & Steel Co., Gadsden, Ala.
 Alcoa Iron Co. (Refined Merchant Bar, Band,
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 Altoona, Pa.
 American Car & Foundry Co. (Merchant Bars,
 Flats, Squares, etc.), 915 Olive, St. Louis.
 Mo., & 165 B'way, New York
 American Horse Shoe Co. (Bar Iron), Phillips-
 burg, N. J.
 American Iron & Steel Mfg. Co. (Merchant &
 Refined Bar), Lebanon, Pa.
 Ames, W. & Co. (Rounds, Flats & Squares).
 Jersey City, N. J.
 Ashland Sheet Mill Co. (Merchant Bar), Ash-
 land, Ky.
 Boonton Iron & Steel Co. (Bar Iron), Boonton.
 N. J.
 Bristol Iron & Steel Co. (Bar Iron), Real Es-
 tate Trust bldg., Phila., Pa. Works: Bris-
 tol, N. J.
 Brown & Co. (Refined Bar & Hammered Iron
 for Special Purposes), Pittsburg, Pa.

Bryden Horse Shoe Co. (Bar & Other Merchant
 Iron), Catasauqua, Pa.
 Burden Iron Co. (Bar & Other Merchant Iron).
 Troy, N. Y.
 California Industrial Co. (Merchant Bar Iron).
 Los Angeles, Cal.
 Canton Iron & Steel Co. (Merchant Bar), Bal-
 timore, Md. Works, Canton, Md.
 Carter Iron Co. (Merchant Bar Iron), Pitts-
 burg, Pa.
 Cincinnati Horse Shoe & Iron Co. (Bar Iron).
 Cincinnati, O.
 Cohoes Rolling Mill Co. (Refined Bar Iron.
 High Grade for Edge Tools, Butts, Hinges,
 etc.), Cohoes, N. Y.
 Colorado Fuel & Iron Co. (Merchant Bar), Den-
 ver, Colo.
 Cyclops Steel Works (Chas. Burgess Prop.).
 (Extra Refined Hammered Iron), Titusville.
 Pa.
 Davis Bros. (Merchant Bar Iron), 29th & Bris-
 tol, Phila., Pa.
 Elmira Rolling Mill Co., Elmira Heights, N. Y.
 Empire Rolling Mill Co. (Merchant Bar Iron).
 Cleveland, O.
 Ewald Iron Co. (Merchant Bar Iron, Hexagon.
 Round, etc.), Louisville, Ky.
 Falls Hollow Staybolt Co. (Staybolt Iron).
 Cayahoga, O.
 Fort Wayne Rolling Mill Co. (Rounds, Squares.
 Flats & Ovals), Fort Wayne, Ind.
 Gaulbert & Caskey (Merchant Bar Iron), York
 & American, Phila., Pa.
 Harrisburg Rolling Mill Co. (Refined Merchant
 Bar), Harrisburg, Pa.
 Helmbacher Forge & Rolling Mills Co. (Mer-
 chant Bar), St. Louis, Mo.
 Highland Iron & Steel Co. (Merchant Bar).
 Terre Haute, Ind.
 Hirsch Rolling Mill Co. (Merchant & Refined
 Bar), St. Louis, Mo.
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 bldg., Chicago, Ill.
 Janson Steel & Iron Co. (High Grade Refined
 Iron in Rounds, Squares, Flats, etc.), Col-
 umbia, Pa.
 Joliet Iron Products Co. (Bar Iron, Rounds,
 Squares, etc.), Joliet, Ill.
 Judson Mfg. Co. (Merchant Bar Iron), San
 Francisco, Cal.
 Kansas City Bolt & Nut Co. (Merchant Bar
 Iron), Kansas City, Mo.
 Knoxville Iron Co. (Merchant Bar Iron), Knox-
 ville, Tenn.
 Lake Erie Iron Co. (Merchant Bar Iron, Cleve-
 land, O.
 Lebanon Valley Iron Co. (Merchant Bar, etc.).
 Lebanon, Pa.
 Licking Rolling Mill Co. (Merchant Bar), Cov-
 ington, Ky.
 Lockhart Iron & Steel Co. (Rolled Bar Iron).
 McKees Rocks, Pa.
 Logan Iron & Steel Co. (Charcoal & Refined
 Bar Iron, Crown Bars, Flats, Rounds,
 Squares, Ovals, Half Rounds & Ovals.
 etc.), Burnham, Pa.
 Lucknow Iron & Steel Co. (Bar Iron), Harris-
 burg, Pa.
 McCoy-Linn Iron Co. (All Sizes), Milesburg.
 Pa.
 Manhattan Rolling Mills (Inc.) ("Refined").
 362 Av A, New York
 Milton Mfg. Co. (Refined Bar Iron), Milton, Pa.
 Moorhead Bros. & Co. (Inc.), Sharpsburg, Pa.
 National Rolling Mill Co. (Bar & Finished).
 Vincennes, Ind.
 New Haven Iron & Steel Co. (Merchant Bar
 Iron & Band Iron Rounds, Squares, Ovals,
 Hexagons for Bolts, Nuts & Carriage Work
 & Heavy Bands), New Haven, Conn.
 Norfolk Iron Co. (Merchant Bar Iron), Norfolk.
 Va.
 Ohio Falls Iron Co. (Merchant Bar & Iron for
 Railroad, Bridges & Car Works, etc.), New
 Albany, Ind.
 Old Dominion Iron & Nail Works Co. (Merchant
 Bar & Bridge Iron), Richmond, Va.
 Oliver Iron & Steel Co. (Rounds, Squares,
 Flats, etc.), Pittsburg, Pa.
 Pacific Hardware & Steel Co. (Bar Iron), San
 Francisco, Cal. Works: Portland, Oregon
 Penn. Iron Co. (Merchant Bar), Lancaster, Pa.
 Philadelphia Forge Co. (Rolled Rounds, Squares,
 etc.), 20 Cliff, New York. Works, Tacony.
 Pa.
 Pittsburg Forge & Iron Co. (Merchant & Re-
 fined Bar), Pittsburg, Pa.

Reading Iron Co. (Merchant Bar), Reading, Pa.
 Refined Iron & Steel Co. (Refined Engine Bolt
 Iron; also Chain, Nut & Cold Rivet Iron),
 Pittsburg, Pa.
 Republic Iron & Steel Co. (Common & Refined
 Bar Iron of all Kinds), Pittsburg, Pa.
 Rockaway Rolling Mill (Bar & Double Refined
 Bars), Rockaway, N. J.
 Rome Merchant Iron Mill (High Grade Refined
 & Merchant Puddled Bars), Rome, N. Y.
 St. Louis Steam Forge & Iron Works (Bar
 Iron), East St. Louis, Ill.
 Schuylkill Haven Iron & Steel Co. (Merchant &
 Square Bars, etc.), Schuylkill Haven, Pa.
 Scranton Bolt & Nut Co. (Merchant Bar),
 Scranton, Pa.
 Seattle Steel Co. (Bar Iron, Rounds, Squares,
 Flats, etc.), Youngstown, Wash.
 Seyfert, Sam'l R. & Bro. (Puddled Bars),
 Reading, Pa.
 Shenango Iron & Steel Co. (Refined Bars; also
 Screw, Nut & Chain Iron), Pittsburg, Pa.
 Slattington Rolling Mill Co. (High Grade Re-
 fined Carriage, Drop Forging, Horse Shoe
 & Boiler Rivet Iron, etc.), Slattington, Pa.
 Sligo Iron & Steel Co. (Refined Iron Bars),
 Pittsburg, Pa.
 Standard Chain Co. (Merchant Bar Iron for
 Harness & Saddlery Work & Chains), Pitts-
 burg, Pa.
 Standard Rolling Mill. (M. J. Dempsey Prop.)
 (Merchant Bar), 11th av. & 40th, New York
 Susquehanna Iron Co. (Refined & Merchant
 Bar, etc.), Columbia, Pa.
 Sylvester Company (Merchant Bar Iron), Bos-
 ton, Mass. Works: Danvers, Mass.
 Tennessee Coal, Iron & Railroad Co. (Bar
 Iron), Birmingham, Ala.
 Tredegar Co. (Merchant Bar, Car & Bridge
 Iron), Richmond, Va.
 Tuttle, Chas. W. (Merchant Bar Iron), Auburn,
 N. Y.
 Ulster Iron Works (Merchant Bar Iron), Dover,
 N. J.
 Union Rolling Mill Co. (Refined Bar Iron; also
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 Ohio
 Virginia Iron Coal & Coke Co. (Merchant Bar
 Iron), Roanoke, Va.
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 & Fancy Shapes & Horse Shoe Iron), Lock-
 port, N. Y.
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 Denver, Colo.
 Western Steel Car & Foundry Co. (Merchant
 Bar), Anniston, Ala. Office: Chicago, Ill.
 Wilkes Rolling Mill Co. (Merchant Bar Iron).
 Sharon, Pa.
 Wilmington Iron Co. (Refined Merchant Bar),
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 Wood, Alan, Iron & Steel Co., 519 Arch,
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 Wurster, F. W. & W. (Merchant Bar Iron),
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 & Founders)

Iron (Channel)

(See Steel Structural Mills)

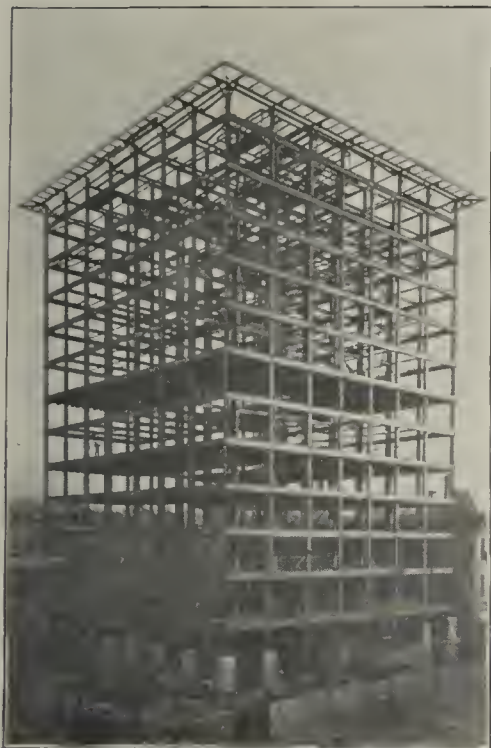
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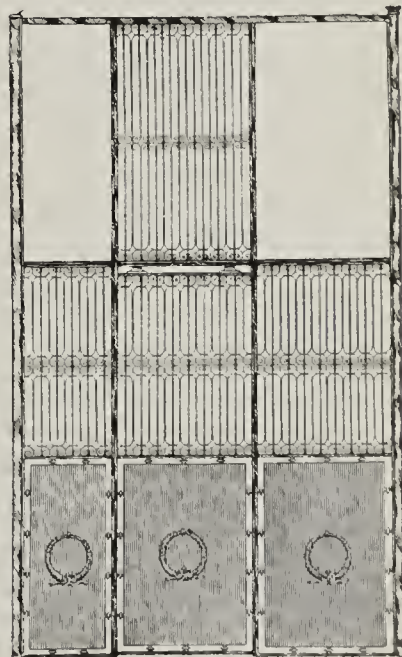
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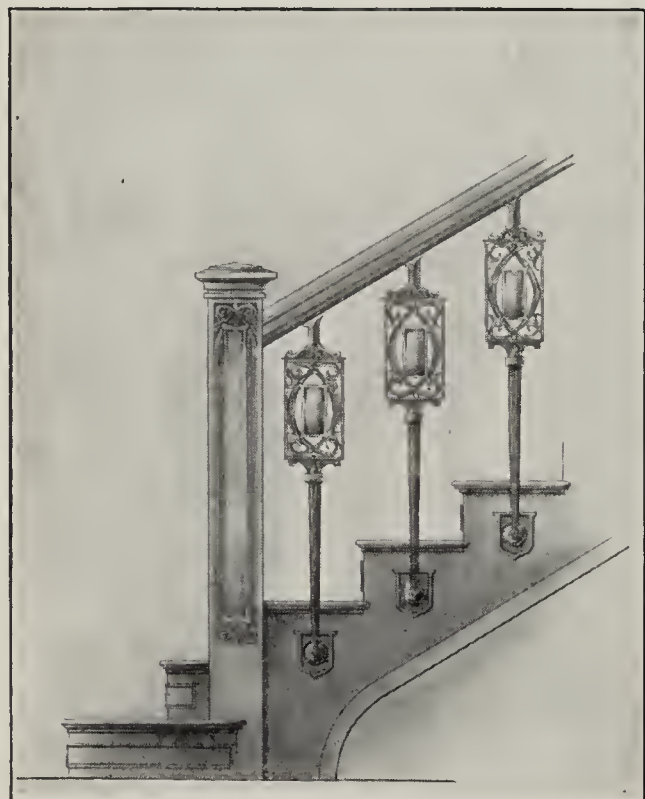
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 Barbec Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
 Barnum, E. T. Wire & Iron Works, 82 Washington av., Detroit, Mich.

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Brown Bros. Mfg. Co., 22d & Campbell av., Chicago, Ill.

Brown-Ketcham Iron Works, Indianapolis, Ind.

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 Refined Iron & Steel Co. (Double Refined), Pittsburg, Pa.
 Republic Iron & Steel Co., Pittsburg, Pa.
 Rockaway Rolling Mill, Rockaway, N. J.
 Rome Merchant Iron Mill, Rome, N. Y.
 Shenango Iron & Steel Co., Pittsburg, Pa.
 Slatington Iron Co., Slatington, Pa.
 Sligo Iron & Steel Co., Connellsville, Pa.
 Ulster Iron Works ("Ulster," Special), Dover, N. J.
 Union Rolling Mill Co. ("Newburgh"), Cleveland, O.
 West End Iron Co., Lebanon, Pa.
 Zug Iron & Steel Co. ("Sable" Special Railroad), Pittsburg, Pa.

Iron Summer Houses

Barnum, E. T., 99-105 Shelby, Detroit, Mich.
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)
 City Forge & Iron Works (Andrew Plocher Prop.) (Iron & Wire), Dayton, O.
 Lewis, Henry B., 45 Jos. Campau av., Detroit, Mich.
SCHREIBER, L. & SONS CO., Sth & Eggleston av., Cincinnati, O. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WKS., 100 Lake, Chicago, Ill. (See adv. index, end of book)
TAYLOR & DEAN, Penn av. & 25th, Pittsburg, Pa. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Iron (Swedish)

(See Iron & Steel, Swedish)

Iron (Tee)

(See Steel Structural Mills)

Iron & Steel Angles, Channels, Tees, Etc.

(See Steel Structural Mills. Structural Iron or Steel of all Kinds are Classified Under this Heading. See Matter Following Each Firm's Name)

Iron & Steel (Band & Hoop)

Altoona Iron Co. (Iron Only), Altoona, Pa.
 American Tube & Stamping Co. (Steel Hoops & Bands), Bridgeport, Conn.
 Atlanta Steel Co. (Open Hearth Steel), Atlanta, Ga.
 Bristol Iron & Steel Co. (Iron Bands Only), Real Estate Trust bldg., Phila., Pa. Mills: Bristol, Pa.
 Carnegie Steel Co. (Iron & Steel Bands & Hoops of all Kinds), Pittsburg, Pa.
 Carter Iron Co. ("Carter"), Pittsburg, Pa.
 Clark Steel Hoop Co. (Steel Hoops), Punxsutawney, Pa.
 Colorado Fuel & Iron Co. (Iron & Steel Bands & Hoops), Denver, Colo.
 Helmbacher Forge & Rolling Mills Co. (Band Iron Only), St. Louis, Mo.
 Hughes & Patterson (Iron Only), Richmond & Susquehanna av., Phila., Pa.
 Illinois Steel Co. (Steel Hoops), 115 Adams, Chicago, Ill.
 Jones & Laughlin Steel Co. (Steel Only), Pittsburg, Pa.
 Lockhart Iron & Steel Co. (Band Iron Only), Pittsburg, Pa. Mills: McKees Rocks, Pa.
 Lucknow Iron & Steel Co. (Band Iron Only), Harrisburg, Pa.
 Norfolk Iron Co. (Iron Only), Norfolk, Va.
 Old Dominion Iron & Nail Works Co. (Brand Iron Only), Richmond, Va.
 Pacific Hardware & Steel Co. (Band Iron Only), San Francisco, Cal. Works: Portland, Ore.
 Pittsburg Steel Co. (Steel Bands & Hoops), Pittsburg, Pa.
 Republic Iron & Steel Co. (Iron & Steel Bands & Hoops), Pittsburg, Pa.
 Rome Merchant Iron Mill (Iron Bands & Hoops), Rome, N. Y.
SHARON STEEL HOOP CO. (Steel Bands & Hoops, Galvanized, Pickled, etc.), Sharon, Pa. (See adv. index & branch offices, end of book)
 West Leechburg Steel Co. (Steel Hoops & Bands), Pittsburg, Pa.

Iron & Steel Bar

(See Iron Bar Mills; also Steel Bar Mills)

Iron & Steel Boiler & Tank Plate

Allegheny Steel Co. (Open Hearth Steel), Pittsburg, Pa.
 Cambria Steel Co., Arcade bldg., Phila., Pa.
 Carnegie Steel Co. (Steel Only), Pittsburg, Pa.
 Central Iron & Steel Co. (Iron & Steel), Harrisburg, Pa.
 Crucible Steel Co. of America (Crucible & Open Hearth Steel), Pittsburg, Pa.
 Ewald Iron Co. (Tennessee Charcoal Tank Iron), Louisville, Ky.
 Glasgow Iron Co. (Iron & Steel), Pottstown, Pa.
 Illinois Steel Co. (Open Hearth & Bessemer Steel), 115 Adams, Chicago, Ill.
 Jones & Laughlin Steel Co. (Open Hearth Steel), Pittsburg, Pa.
 Lebanon Iron & Steel Co. (Iron Only), Lebanon, Pa.
 Lucknow Iron & Steel Co. (Iron & Steel), Harrisburg, Pa.
 Lukens Iron & Steel Co. (Open Hearth Steel), Coatesville, Pa.
 Moorhead Bros. & Co. (Iron & Steel), Sharpsburg, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Otis Steel Co. (Steel Only), Cleveland, O.
 Portsmouth Steel Co. (Open Hearth Steel ½ in. Thick by 72 in. Wide; Any Length up to 16 ft. Long), Wheeling, W. Va.
 Potts Bros. Iron Co. (Iron Only), Pottstown, Pa.
 Republic Iron & Steel Co. (Tank Iron), Pittsburg, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa. (See adv. index, end of book)
 Seyfert, Simon, Estate of (Iron Only), Reading, Pa.
 Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.
 Worth Bros. Co. (Open Hearth Steel), Coatesville, Pa.

Iron & Steel (Corrugated, Mfrs.)

(Firms marked thus (*) Roll their own Sheets) (See also Roofing & Siding, Iron & Steel)

*American Rolling Mill Co., Middletown, O.
 *American Sheet & Tin Plate Co. (Black, Painted & Galvanized), Frick bldg., Pittsburg, Pa.

***BERGER MFG. CO., THE, Main Office & Works:** Canton, O. (See adv. index & branch offices, end of book)

BURTON, W. J. CO., 161 W. Congress, Detroit, Mich. (See adv. index, end of book)
 Canton Art Metal Co., Canton, O. (See adv. index, end of book)
 *Carter Iron Co. (Iron Only), Pittsburg, Pa.
 East Birmingham Roofing & Corrugating Co., Birmingham, Ala.

EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)
 Eller Mfg. Co., Canton, O. (See adv. index, end of book)
 *Empire Iron & Steel Co. (Bessemer & Open Hearth Steel & Wrought Iron), Niles, O.
 *Follansbee Bros. Co. (Steel), Pittsburg, Pa.
 Garry Iron & Steel Co., Cleveland, O.

Globe Iron Roofing & Corrugating Co., Newport, Ky.

Goff, Horner & Co. (Ltd.) (Steel Only), Frick bldg., Pittsburg, Pa.

*Hazelton Sheet Steel Co. (Steel Only), Commonwealth bldg., Phila., Pa.

Hyndman Roofing Co., Cincinnati, O.

*Inland Steel Co. (Open Hearth Steel Only), First Nat'l Bank bldg., Chicago, Ill.

Jersey City Galvanizing Co., 80 Morgan, Jersey City, N. J.

Kanneberg Roofing & Ceiling Co., Canton, O.

La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.

Lead Coating Co., 46 Richmond, Phila., Pa.

*Licking Rolling Mill Co. (Iron Only), Covington, Ky.

Moeschl-Edwards Corrugating Co., Covington, Ky.

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

*McCullough Iron Co. (Steel Only), Wilmington, Del.

N. Y. Iron Roofing & Corrugating Co., Jersey City, N. J.

Niles Corrugating Co., Niles, O.

Niles Iron & Steel Roofing Co., Niles, O.

Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.

Reeves Mfg. Co., Canal Dover, O.

***SCAIFE, WM. B. & SONS CO., 221** 1st av., Pittsburg, Pa. (See adv. index, end of book)

*Seneca Iron & Steel Co. (Steel Only), Buffalo, N. Y.

Sheet Metal Mfg. Co., Niles, O.

Southers, E. E. Iron Co., St. Louis, Mo.

Steel Roofing & Stamping Works, Des Moines, Ia.

Sykes Steel Roofing Co., 112 W 19th pl., Chicago, Ill.

*Thomas Steel Co., Niles, O.

*Twichell Iron Co., Kansas City, Mo.

*Wheeling Corrugating Co., Wheeling, W. Va.

*Wood, Alan Iron & Steel Co. (Steel), 519 Arch, Phila., Pa.

*Wood, J. & Bros. Co. (Inc.), Conshohocken, Pa.

*Youngstown Iron & Steel Roofing Co., Youngstown, O.

*Youngstown Sheet & Tube Co., Youngstown, O.

*Zug Iron & Steel Co., Pittsburg, Pa.

Iron & Steel Sheet (Black & Galvanized)

Allegheny Steel Co. (Black Open-Hearth Sheet Steel, for Electric Work, Stoves, Stamping, Plating, etc.), Pittsburg, Pa.
 American Rolling Mill Co. (Iron, Bessemer & Open Hearth Steel Sheets, Black & Galvanized; also Corrugated), Middletown, O.
 American Sheet & Tin Plate Co. (Bessemer & Open Hearth Steel Sheets, Black & Galvanized), Pittsburg, Pa.
 Ashland Sheet Mill Co. (Iron & Steel Sheets, Black & Galvanized), Ashland, Ky.
 Atlanta Tin Plate & Sheet Mill (Black & Galvanized Sheet Iron), Indianapolis, Ind.
BERGER MFG. CO., THE (Black & Galvanized Sheet Steel & Iron Sheets for Tinning), Canton, O. (See adv. index & branch offices, end of book)
 Buffalo Steel Co. (Bessemer Steel Sheets, Black & Galvanized), Tonawanda, N. Y.
 Cannonsburg Iron & Steel Co. (Black Sheets for Stamping, Enameling, Deep Drawing, Tinning, Stove & Range Work, etc.), Parkersburg, W. Va.
 Canonsburg Steel & Iron Works (Iron & Steel Sheets for Stamping, Enamelling, Deep Drawing, Tinning, Galvanizing, etc.), Canonsburg, Pa.
 Carnahan Tin Plate & Sheet Co. (Stamping Sheets, all Consumed by the Company), Canton, O.
 Carter Iron Co. (Black Iron Chemical Sheets; also Roofing Sheets), Pittsburg, Pa.

Cleveland Steel Co. (Black Light Steel Plates & Sheets), Cleveland, O.
 Colonial Steel Co. (Crucible & Open Hearth Black Sheet Steel), Pittsburg, Pa.
 Colorado Fuel & Iron Co. (Steel Black Sheets Only), Denver, Col.
 Empire Iron & Steel Co. (Bessemer & Open Hearth Sheet Steel, Black & Galvanized, 10 to 30 Gauge), Niles, O.
 Ewald Iron Co. (Iron Sheets), Louisville, Ky.
 Follausbee Bros. Co. (Iron & Open Hearth Black Steel Sheets), Pittsburg, Pa.

FRASSE, PETER A. & CO. (Mill

Representatives), 130 Worth, New York. (See adv. index & branch offices, end of book)
 Hazelton Sheet Steel Co. (Steel Only; also Soft Galvanized Sheets), Commonwealth bldg., Phila., Pa.
 Illingworth, Jno. Steel Co. (Hammered & Rolled Steel Sheets for Tools, Saws, Knives, Files, etc.), 25 Cliff, New York.

Indiana Rolling Mill Co. (High Carbon Sheet Steel for Shovel Plate), New Castle, Ind.
 Inland Steel Co. (Open Hearth Sheet Steel, Black & Galvanized), 1st Nat. Bank bldg., Chicago, Ill.

Jessop Steel Co. (Crucible Sheet, Black & Galvanized & Saw Steel), 91 John, New York. Mills: Washington, Pa.

Jones & Laughlin Steel Co. (Bessemer Steel Sheets), Pittsburg, Pa.

La Belle Iron Works (Open Hearth Sheet Steel, Black & Galvanized, 10 to 30 Gauge), Steubenville, O.

Licking Rolling Mill Co. (Sheet Iron), Covington, Ky.

McCullough Iron Co. (Black & Galvanized Sheet Steel), Wilmington, Del.

Marshall Iron Co. (Black Iron & Steel Sheet), Newport, Del.

MERCHANT & EVANS CO. (Inc.)

(Black & Galvanized), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Moorhead Bros. & Co. (Black Iron & Steel Sheets), Sharpsburg, Pa.

National Sheet Steel Co. (Black & Galvanized Open Hearth Steel & Iron Sheets; also Polished & Blue Steel for Stove Mrs., Di-Oxidized & Electrical Sheets, One Pass, Cold Rolled, Box Annealed Sheets, Furniture & Automobile Body Sheets), Mansfield, O.

Newport Rolling Mill Co. (Black Steel Sheets for Roofing, Corrugating & Galvanizing; also Galvanized Sheets), Newport, Ky.

Parkersburg Iron & Steel Co. (Fine Black Iron & Steel Sheets), Parkersburg, W. Va.

Phillips Sheet & Tin Plate Co. (Long Black Iron Sheets), Clarksburg, W. Va.

Portsmouth Steel Co. (Open Hearth Sheet, Black Sheets Unannealed & Blue Annealed, 13 up to 17 Gauge, 54 in. wide), Wheeling, W. Va. Works, Portsmouth, O.

SCAIFE, WM. B. & SONS CO. (Gal-

vanized), 221 1st av., Pittsburg, Pa. (See adv. index, end of book)

Seneca Iron & Steel Co. (Black & Galvanized Sheet Steel), Buffalo, N. Y.

Sligo Iron & Steel Co. (Black Iron & Steel Sheets, from 9 to 18 Gauge), Pittsburg, Pa.

Taylor, N. & G. Co. (Open Hearth Black & Galvanized Sheet Steel, Gauges 6 to 16 U. S. Standard), Mariners & Merchants bldg., Phila., Pa.

Thomas Steel Co. (Iron & Steel), Niles, O.

United Sheet & Tin Plate Co. (Polished, Black, Galvanized & Corrugated Sheets), Marietta, Ohio

Ward-Dickey Steel Co. ("Dickey," Hammered Finished, Planished Sheet Steel, 18 to 28 Gauge), Indiana Harbor, Ind.

Western Tin Plate & Sheet Co. (Black Sheets for Galvanizing & Tinning), Greencastle, Ind.

Wheeling Steel & Iron Co. (Iron & Bessemer Steel, Black Sheets), Wheeling, W. Va.

Whitaker-Glessner Co. (Iron & Steel Sheets, Black & Galvanized), Wheeling, W. Va.

Wilkes Rolling Mills Co. (Black Iron & Steel Gauges 16 to 28, Width 24" to 31", Lengths 30" to 120", Iron Gauges 16 to 24, 24" to 30", Lengths 60" to 101"), Sharon, Pa.

Wood, Alan Iron & Steel Co. (Iron & Basic Open Hearth Steel, Black & Galvanized), 519 Arch, Phila., Pa.

Wood, J. & Bros. Co. (Inc.) (Sheet & Corrugated Iron & Blue Annealed Sheets), Conshohocken, Pa.

Wyoming Shovel Works (Steel Sheets & Light Plates), Wyoming, Pa.

Youngstown Iron & Steel Roofing Co. (Sheet Iron & Steel, Black & Galvanized), Youngstown, O.

Youngstown Sheet & Tube Co. (Iron & Steel Sheets, Black & Galvanized, Double Refined Puddled Iron a Specialty), Youngstown, O.

Zug Iron & Steel Co. ("Sable" Brand Iron & Steel Sheets for Corrugating, Galvanizing, Stamping, Expanded Metal, etc.), Pittsburg, Pa.

Iron & Steel Sheet (Electrical)

(See also Iron & Steel Sheet, Black & Galvanized)

Allegheny Steel Co., Pittsburg, Pa.

American Rolling Mill Co. ("Muskingum," Open Hearth Steel Sheets, Special Electrical Analysis), Middletown, O.

American Sheet & Tin Plate Co. (Soft Steel Sheets, Doubled Annealed & Cold Rolled & Annealed Finishes), Pittsburg, Pa.

Empire Iron & Steel Co. (Open Hearth, Blue Annealed), Niles, O.

Goff, Horner & Co. (Ltd.) (Mill Representatives), ("Muskingum," Basic & Acid O. I. Steel Sheets, Special Electrical Analysis), Erie bldg., Pittsburg, Pa.

National Sheet Steel Co., Mansfield, O.

Refined Iron & Steel Co., Pittsburg, Pa.

United Sheet & Tin Plate Co., Marietta, O.

Ward-Dickey Steel Co. (Planished Sheet), Indiana Harbor, Ind.

Wood, Alan Iron & Steel Co., 519 Arch, Phila., Pa.

Wood, J. & Bros. Co. (Inc.) (Blue Annealed), Conshohocken, Pa.

Zug Iron & Steel Co. (Iron & Steel), Pittsburg, Pa.

Iron & Steel Sheet (Galvanized)

(See Iron & Steel Sheet, Black & Galvanized)

Iron & Steel Sheets (Lead Coated)

Lead Coating Co., 46 Richmond, Phila., Pa.

Iron & Steel Skelp

Allegheny Steel Co. (Open Hearth Steel), Pittsburg, Pa.

AMERICAN STEEL & WIRE CO. (Skelp Steel), Commercial Nat'l B'k bldg., Chicago, Ill.

Brooke, E. & G. Iron Co. (Iron Skelp), Birdsboro, Pa.

Byers, A. M. Co. (Skelp Iron, all Consumed by the Company), Pittsburg, Pa.

Carnegie Steel Co. (Steel), Pittsburg, Pa.

Clearfield Steel & Iron Co., Commonwealth bldg., Pittsburg, Pa. Mills, Clearfield, Pa.

Coatesville Rolling Mill Co. (Boiler Tube Skelp), Coatesville, Pa.

Dover Forge & Iron Co. (Charcoal Iron Skelp), Canal Dover, O.

Cohoes Rolling Mill Co. (Iron Only), Cohoes, N. Y.

Glasgow Iron Co., Pottstown, Pa.

Harrisburg Pipe & Line Bending Co. (Iron Boiler Tube Skelp), Harrisburg, Pa.

Harrisburg Rolling Mill Co. (Skelp Iron), Harrisburg, Pa.

Hughes & Patterson (Skelp Iron), Richmond & Susquehanna, Phila., Pa.

LaBelle Iron Works (Steel Only), Steubenville, O.

Logan Iron & Steel Co. (Iron Skelp), Burdham, Pa.

Longmead Iron Co. (Grooved Skelp Iron), Conshohocken, Pa.

Moorhead Bros. & Co. (Inc.) (Skelp Iron & Steel), Sharpsburg, Pa.

National Tube Co. (Iron & Steel Skelp), Pittsburg, Pa.

National Tube Co. of Ohio (Bessemer), Lorain, Ohio

Parkersburg Iron Co. (Charcoal Boiler Tube Iron Skelp), Parkersburg, Pa.

Potts Bros. Iron Co. (Iron), Pottstown, Pa.

Reading Iron Co. (Plain, Grooved & Sheared Skelp Iron), Reading, Pa.

Republic Iron & Steel Co., Pittsburg, Pa.

Seyfert, Simon, Est. of (Grooved Iron Pipe & Tube Skelp), Reading, Pa.

Spang, Chalfant & Co. (Pipe Iron), Pittsburg, Pa.

Susquehanna Iron Co. (Skelp Iron), Columbia, Pa.

Fyler Tube & Pipe Co. (Charcoal Skelp Iron, all Consumed by the Company), Washington, Pa.

United Steel Co. (Open Hearth Steel), Canton, Ohio

Vulcan Charcoal Iron & Steel Co. (Skelp Iron for Boiler Tubes), Crum Lynne, Pa.

West End Iron Co. (Skelp Iron), Lebanon, Pa.

Wheeling Steel & Iron Co. (Grooved Skelp Iron & Steel, etc.), Wheeling, W. Va.

Wood, J. & Bros. Co. (Flue Iron), Conshohocken, Pa.

Worth Bros. Co. (Boiler Tube Skelp), Conestoga, Pa.

Youngstown Sheet & Tube Co. (Iron & Bessemer Steel Skelp), Youngstown, O.

Iron & Steel (Swedish)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

Brown-Wales Co. (Norway Iron), Boston, Mass.

Dana & Co., 32 B'way, New York

Dodge, Haley & Co., Boston, Mass.

Harvey, Arthur C. Co. (Iron), Boston, Mass.

Illingworth, John Steel Co., Frankford, Phila., Pa.

Milne, A. & Co. (Norway Iron & Steel), 1 B'way, New York, & 8 Oliver, Boston, Mass.

Nash, Geo. & Co. (Non-Magnetic Hot and Cold Rolled Norway Iron & Acme Resistance & Bending Wire for Electrical Purposes, Steel Importers, "Seeholm & Deekstudd's" Self-Hardening & Tool Steel), 217 Pearl, New York

Pierson & Co., 29 B'way, New York

Potts, Horace T. & Co., 316 N 3d, Phila., Pa.

Wheelock, Lovejoy & Co., 23 Cliff, New York, & 35 Oliver, Boston, Mass.

White-Good Steel Co., Monadnock blk, Chicago, Ill.

Irons (Branding)

(See Burning Brands)

Irons (Burling)

Stortz, John & Son 210 Vine, Phila., Pa.

Irons (Cable)

Nagel, W. G. Electric Co., Toledo, O.

Irons (Calking)

ANDERSON FORGE & MACHINE CO., 271 Grand, Detroit, Mich. (See adv. index, end of book)

Braunsdorf-Mueller Co., Elizabeth, N. J.

Drew, C. & Co., Kingston, Mass.

Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.

Krauter & Co., Newark, N. J.

Black & Co., Rochester, N. Y.

Mueller, H. Mfg. Co., Decatur, Ill.

Stortz, Jno. & Son (Plumbers'), 210 Vine, Phila., Pa.

White, L. & J. J. Co., Buffalo, N. Y.

Wileox, Crittenden & Co., Middletown, Conn.

Irons (Car Ladder)

Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.

Irons (Clamp)

Stearns, E. C. & Co. (Also Door Frames), Syracuse, N. Y.

Irons (Clothes, Revolving)

Illinois Iron & Bolt Co., Carpentersville, Ill.

Irons (Corner & Brace)

American Hardware Mfg. Co., Ottawa, Ill.

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Hazel Atlas Glass Co., Wheeling, W. Va.

McKluney Mfg. Co., Pittsburg, Pa.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Pratt & Letchworth Co., Buffalo, N. Y.

Richards Mfg. Co., Aurora, Ill.

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Sargent & Co., New Haven, Conn., & 94 Center, New York

STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)

Wilcox Mfg. Co., Aurora, Ill.

Irons (Curling)

Arcade Mfg. Co. ("Eulalla," "Ideal"), Freeport, Ill.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Del Sales Co. ("Del" Electric), Monadnock blk., Chicago, Ill.
Rolfe Electric Co. (Electric), Rochester, N. Y.
Vulcan Elec. Heating Co. (Electric), 69 Jackson boul., Chicago, Ill.

Irons (Dog)

American Foundry & Mfg. Co., St. Louis, Mo.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Smith, Thos. & Co., Worcester, Mass.
Southern Plow Co., Columbus, Ga.

Irons (Extension Brace)

Brewer Bros. (Wrought), 614 Filbert, Philadelphia, Pa.

Irons (Grab)

Illinois Bolt, Nut & Forging Co., 35th & Ashland av., Chicago, Ill.

*Irons (Hatch Door)

SEDGWICK MACHINE WORKS (Automatic), Poughkeepsie, N. Y., & 128 Liberty, New York. (See adv. index, end of book)

Irons (Pinking)

Johnson, Wm. (Heddenberg Works), Newark, N. J.
Krauter & Co., Newark, N. J.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Irons (Plane)

Buck, Chas. Edge Tool Co., Millbury, Mass.
Clapham-Stephens Co., Pine Meadow, Conn.
Doscher Plane & Tool Co., Saugatuck, Conn.
New England Specialty Co., North Easton, Mass.
Ohio Tool Co., Columbus, O.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Sandusky Tool Co., Sandusky, O.
Stanley Rule & Level Co., New Britain, Conn.
White, L. & J. J. Co., Buffalo, N. Y.

Irons (Polishing)

(See Sad Irons)

Irons (Porch Post)

Hardware & Woodenware Mfg. Co., 693 B'way, New York
National Supply Co., 7 W Lombard, Baltimore, Md.
Penn Hardware Co., Reading, Pa.
Wrightsville Hardware Co., Wrightsville, Pa.

Irons (Sash Cord)

Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Sargent & Co., New Haven, Conn., & 94 Centre New York
Stanley Rule & Level Co., New Britain, Conn., & 107 Chambers, New York
Union Mfg. Co., New Britain, Conn.

Irons (Step)

(See Pole Steps)

Irons (Tuyere)

American Foundry & Mfg. Co., St. Louis, Mo.
Arcade Mfg. Co. (Fitzsimmons'), Freeport, Ill.
Barber Mfg. Co., Ashtabula, O.
Boynton & Plummer, Worcester, Mass.
Candy-Otto Mfg. Co., Chicago Heights, Ill.
Comstock, Geo. S. (Fish's Patent Ball Tuyeres), Mechanicsburg, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Huntsville Foundry & Machine Works, Huntsville, Ala.
Illinois Iron & Bolt Co. ("Norton," "Warren," "Clark," "Duck Nest"), Carpentersville, Ill.
Roots, P. H. & F. M. Co., Connersville, Ind.
Silver Mfg. Co. ("Dole & Duck Nest"), Salem, O.

Southern Skeln & Foundry Co., Chattanooga, Tenn.
Sweet, A. L. Iron Works, Medina, N. Y.
Thompson Extension Tuyere Co., Indianapolis, Ind.
Wagner Mfg. Co., Sydney, O.
Weyburn Co. ("Rockford Ideal"), Rockford, Ill.

Irons (Waffle)

Erle City Mfg. Co. ("Arrow"), Erle, Pa.
Grissold Mfg. Co. ("American"), Erle, Pa.
Reading Hardware Co., Reading, Pa.
Stuart & Peterson Co., Burlington, N. J.
Wrightsville Hardware Co., Wrightsville, Pa.

Irons (Wagon Dump)

Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

Irons (Wall)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Metropolitan Bolt Co., 367 Congress, Boston, Mass.
Old Dominion Iron & Nail Works Co., Richmond, Va.

*Irrigating Sprinklers

DEMING CO., Salem, O. (See adv. index, end of book)

Isinglass

American Gline Co. ("Cape Ann"), Boston, Mass.
Armour Ammonia Works ("Armour's"), 311, Loomis, Chicago, Ill.
Gloucester Isinglass & Glue Co., Gloucester, Mass.
Haskins, Leander M. (For Brewers, etc.), 10 Long Wharf, Boston, Mass.
Howe & French Isinglass Co. ("Ripley"), 85 State, Boston, Mass.
Rockport Isinglass Co., Rockport, Mass.
Tarr's Isinglass Co., Gloucester, Mass.

Ivory Black

Blinney & Smith Co., 81 Fulton, New York
DOGGETT, STANLEY, 101 Beckman, New York. (See adv. index, end of book)
Seaver & Co., 120 Milk, Boston, Mass.

Jack-Straps

Dicke, C. H. Tool Co. ("Howe"), Downers Grove, Ill.
Klein, Mathias & Sons ("Cable"), 78 W Van Buren, Chicago, Ill.

Jackets (Copper, for Copper Smelters)

Keystone Bronze Co., 38th & A. V. Ry., Pittsburgh, Pa.

*Jackets (Water, for Smelting Plants)

CANTON BOILER & ENGINEERING Co., Canton, O. (See adv. index, end of book)

Jacks (Armature)

(See Lifts, Motor, Car Pit)

Jacks (Automobile)

(See also Jacks, Wagon; also Jacks, Varions Kluds)

Batavia Clump Co. ("Colt's-U-Bar"), Batavia, N. Y.
Buckeye Jack Mfg. Co. ("Buckeye"), Louisville, O.
Cook's Standard Tool Co. ("Standard"), Kalamazoo, Mich.
Covert Mfg. Co. ("Covert's Victor"), Troy, N. Y.
DUFF MFG. CO. ("Barrett's"), N. S. Pittsburg, Pa. (See adv. index & branch offices, end of book)
Elite Mfg. Co. ("Rehald"), Ashland, O.
Eureka Mower Co. ("Eureka No. 3"), Utica, N. Y.

Excelsior Supply Co. ("U. S.," "Peerless"), 235 Randolph, Chicago, Ill.

Globe Jack Co. ("Globe"), 827 N 4th, Philadelphia, Pa.

Jersey Brake Co. ("Searl's Folding"), 56 Columbia, Newark, N. J.

Joyce-Cridland Co., 329 Linden av., Dayton, O.

Kellogg Mfg. Co. (Pneumatic), Rochester, N. Y.

Lane Bros. ("Lane's"), Poughkeepsie, N. Y.

Leather & Brass Mfg. Co. (Pneumatic), Auburn, N. Y.

Oliver Mfg. Co. ("E-Z", "Peerless" "New Snaps"), 203 S Desplains, Chicago, Ill.

Pratt, Wm. E. Mfg. Co. ("Chicago"), 91 Lake, Chicago, Ill.

Shawver Co. ("Springfield"), Springfield, Ohio

Ultra Pump & Power Co., Auburn, N. Y.

Jacks (Bridge)

Buckeye Jack Mfg. Co., Louisville, O.

DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

*Jacks (Cable Reel)

ANDERSON FORGE & MACHINE CO., 271 Gaoim, Detroit, Mich. (See adv. index, end of book)

Jacks (Car)

Brill, J. G. Co. ("Hercules"), 63d & Woodland, Philadelphia, Pa.

Buckeye Jack Mfg. Co., Louisville, O.

Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.

Cook's Standard Tool Co. ("Standard"), Trip & Automatic Lowering

DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index & branch offices, end of book)

DUFF MFG. CO. ("Barrett's"), N. S. Pittsburg, Pa. (See adv. index & branch offices, end of book)

Joyce-Cridland Co., 329 S Linden av., Dayton, O.

Lovejoy Tool Works ("Car Inspection"), 90 Ohio, Chicago, Ill.

Maxon-Miller Jack Co. (Improved Maxon-Miller Lever), Huntington, W. Va.

Norton, A. O., 286 Congress, Boston, Mass.

Pempleton, Kenly & Co. (Ltd.) ("Simplex"), 18 Sloan, Chicago, Ill.

Jacks (Car Pit)

(See Lifts, Motor, Car Pit)

Jacks (Car Replacing)

Buckeye Jack Mfg. Co., Louisville, O.

Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill. (Works, Harvey, Ill.)

DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)

Joyce-Cridland Co., 329 S Linden av., Dayton, O.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Lovejoy Tool Works ("Simplex"), 86 E Ohio, Chicago, Ill.

Norton, A. O. (Ball Bearing), 286 Congress, Boston, Mass.

Pearson Jack Co. ("Pearson"), Boston, Mass.

Jacks (Carriage)

(See Jacks, Wagon)

Jacks (Engine)

McMaster-Carr Co. ("Chicago," for Turning Engline off Centre), 174 Lake, Chicago, Ill.

Jacks (Gas Pumping)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Masseth Packer & Machine Works, Butler, Pa.

Jacks (Geared)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Joyce-Cridland Co., 329 S Lindeman, Dayton, O.

Sparta Iron Works Co., Sparta, Wis.

Jacks (House Moving)

American Skein & Foundry Co. ("A. S. & F. Co.") Press Screws for House Raising), Racine, Wis.
Brown Bros. Mfg. Co., W 22d & Campbell av, Chicago, Ill.
Buckeye Jack Mfg. Co., Louisville, O.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
DUFF MFG. CO. ("Barrett's"), N. S., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Illinois Iron & Bolt Co. (Press Screws for House Raising), Carpentersville, Ill.
Joyce-Cridland Co., Dayton, O.
Maxon-Miller Jack Co. (Improved "Maxon-Miller" Lever), Huntington, W. Va.
Norton, A. O., 286 Congress, Boston, Mass.
Swett, A. L. Iron Works, Medina, N. Y.
Woolly Foundry & Machine Co., Anderson, Ind.

Jacks (Hydraulic)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Burroughs, Chas. Co., 141 Commerce, Newark, N. J.
Dienclt & Elsenhardt ("Reliance"), 1308 N Howard, Phila., Pa.
DUDGEON, RICHARD ("Universal"), 24 Columbia, New York. (See adv. index, end of book)
DUFF MFG. CO. ("Duff-Bethlehem"), N. S., Pittsburg, Pa. (See adv. index & branch offices, end of book)
ELMES, CHAS. F. ENGINEERING Works, c Fulton & N Sangamon, Chicago, Ill. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Heuderer's, A. L. Sons, Wilmington, Del.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), "Taugye's," Imported, etc., 169 Chambers, New York. (See adv. index, end of book)
Joyce-Cridland Co., Dayton, O.
Justice, Philip S. & Co. ("Reliance"), 421 Chestnut, Philadelphia, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Ohio Brass Co., Mansfield, O.
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

*Jacks (Hydraulic, Concrete Testing)

RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

*Jacks (Hydraulic Universal)

DUDGEON, RICHARD, 24 Columbia, New York. (See adv. index, end of book)

Jacks (Lifting)

Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), Milwaukee, Wis.
Buckeye Jack Mfg. Co. ("Buckeye"), Louisville, O.
Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.
Contractors' Plant Mfg. Co., Buffalo, N. Y.
Cooks Standard Tool Co. ("Standard"), Kalamazoo, Mich.
De Weese, F. M. ("Mosher"), Chillicothe, O.
DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)
DUFF MFG. CO. ("Barrett's"), N. S., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Eureka Mower Co., Utica, N. Y.
Elite Mfg. Co. ("Reliable"), Ashland, O.
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Hagerstown Foundry Co., Hagerstown, Md.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Henderer's, A. L. Sons, Wilmington, Del.
Hess-Snyder Co., Massillon, O.
Hine-Watt Mfg. Co. ("Columbia"), 60 Wabash av, Chicago, Ill.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers New York. (See adv. index, end of book)
Joyce-Cridland Co. (Gear Levered), Dayton, O.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Kansas City Auto Jack Co. ("Ashmore"), Kansas City, Mo.
Kenosha Jack Mfg. Co., Kenosha, Wis.
Klemin, E. R., 103 W Monroe, Chicago, Ill.
Locke Regulator Co., Salem, Mass.
Maxon-Miller Jack Co. (Improved "Maxon-Miller" Lever), Huntington, W. Va.
Newell, J. F. & Co., Gardiner, Me.
New London Vise Works, New London, Conn.
New Winona Mfg. Co. ("Hay King"), Winona, Minn.

Norton, A. O. (Ball Bearing Screw), 288 Congress, Boston, Mass.
Oliver Mfg. Co. ("Peerless" "Samson" "Oliver," "Practical," "E. Z"), 203 S. Desplaines, Chicago, Ill.
Pearson Jack Co. (Pearson), Boston, Mass.
Peerless Lifting Jack Co., Anderson, Ind.
Pratt, Wm. E. Mfg. Co. ("Acme"), 91 Lake, Chicago, Ill.
Royal Machine Co., Newark, N. J.
Schwartz, Chas. E., Chillicothe, O.
Shaw Engineering & Mfg. Co. (Adjustable), Newark, N. J.
Shawver Co. ("Springfield"), Springfield, Mass.
Sheffer, B. F., Glen Rock, Pa.
Toppling Bros. ("Burrows," Ball Bearing), 122 Chambers, New York
Trenton Malleable Iron Co. ("Krackerjack"), Trenton, N. J.
U. S. Jack Co. ("U. S." Jack), 130 W Lake, Chicago, Ill.
Ultra Pump & Power Co. ("Ultra" Pneumatic), Auburn, N. Y.
Weiler & Randolph, Sioux City, Ia.
Wray Pump & Register Co. (Inc.) ("Wray Log" Pneumatic), 191 Mill, Rochester, N. Y.

Jacks (Locomotive)

American Skein & Foundry Co. ("A. S. & F. Co.") Locomotive Jack Screws, Racine, Wis.
Buckeye Jack Mfg. Co., Louisville, O.
DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)
DUFF MFG. CO. ("Barrett's"), N. S., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Joyce-Cridland Co., 329 S Lindeman, Dayton, O.
Illinois Iron & Bolt Co. ("I. I. & B. Co.") Locomotive Jack Screws, Carpentersville, Ill.
Maxon-Miller Jack Co. ("Maxon-Miller" Lever), Huntington, W. Va.
Turner, Jno. T. Lowell, Mass.

Jacks (Log)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Buckeye Jack Mfg. Co., Louisville, O.
Burnett Foundry & Machine Works (Ltd.), Petoskey, Ind.
Curtis & Mfg. Co., St. Louis, Mo.
Diamond Iron Works ("Independent" Iron Frame), Minneapolis, Minn.
DUFF MFG. CO. ("Barrett's"), N. S., Pittsburg, Pa. (See adv. index & branch offices, end of book)
Filer & Stowell Co., Home Office, Milwaukee, Wis.

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 Gilchrist Bros. ("The Hercules"), South Bend, Ind.
 Hill, W. E. & Co., Kalamazoo, Mich.
 Joyce-Cridland Co., Dayton, O.
 Lane Mfg. Co., Montpelier, Vt.
 Maxon-Miller Jack Co. ("Maxon" Lever), Huntington, W. Va.
 Moltz, Jacob J., Williamsport, Pa.
 Murray, D. J. Mfg. Co. (Iron Frame, etc.), Wausau, Wis.
 Phoenix Mfg. Co., Eau Claire, Wls.
 Southern Engine & Boiler Works, Jackson, Tenn.
 Turner, Jno. T., Lowell, Mass.

Jacks (Oil Well)

Consolidated Mfg. Co., Toledo, O.
DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)
 Pennell Bros. & Burden Co., Lima, O.

Jacks (Pneumatic Pit)

(See Lifts, Motor, Car Pit)

Jacks (Polishing)

New Britain Machine Co. ("Whitney"), New Britain, Conn.

Jacks (Pulling)

DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)
 Pearson Jack Co. ("Pearson" Ratchet), Boston, Mass.

Jacks (Pumping)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Appleton Mfg. Co., Batavia, Ill.
 Baker Mfg. Co., Evansville, Wls.
 Buckeye Engine & Foundry Co., Joliet, Ill.
 Field-Brundage Co., Jackson, Mich.
 Independent Harvester Co. (Bevel Geared), Plano, Ill.
 International Harvester Co. of America, Chicago, Ill.
 Lazler Gas Engine Co. (Combination), Buffalo, N. Y.
 Myers, F. E. & Bro., Ashland, O.

*Jacks (Railroad)

DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)

Jacks (Ratchet)

American Skeln & Foundry Co. (Bell Base & Tripod Ratchet Jack Screws), Racine, Wls.
 Buckeye Jack Mfg. Co., Louisville, O.
 Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works, Harvey, Ill.
DUFF MFG. CO. ("Barrett's"), N. S. Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Illinois Iron & Bolt Co. (Ratchet Jack Screws), Carpentersville, Ill.
 Joyce-Cridland Co., 329 S. Lindeman, Dayton, O.
 Justice, Phillip S. & Co. (Ball Bearing Screw), 421 Chestnut, Phila., Pa.
 Kalamazoo Railway Supply Co. (Also Friction), Kalamazoo, Mich.
 Lovejoy Tool Works (Cone-Bearing for Car Inspectors), 86 E. Ohio, Chicago, Ill.
 Munnsville Plow Co. (Ratchet Jack Screws), Munnsville, N. Y.
 Norton, A. O. (Ball Bearing Screw), 286 Congress, Boston, Mass.
 Pearson Jack Co. ("Pearson" Ratchet Journal), Boston, Mass.
 Turner, Jno. T. (Railroad), Lowell, Mass.

Jacks (Robie)

Riehle Bros. Testing Machine Co., 1424 N. 9th, Phila., Pa.

Jacks (Screw)

(See also Screws, Jack)

ALLIS-CHALMERS CO., Milwaukee, Wls. (See adv. index & branch offices, end of book)
 Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wls.
 Brill, J. G. Co. 62th & Woodland av, Phila., Pa.

Brown Bros. Mfg. Co., 22d & Campbell av, Chicago, Ill.

Buckeye, Jack Mfg. Co., Louisville, Ky.
 Buda Foundry & Mfg. Co., Harvey, Ill.
 Chicago Steel Foundry Co., 19th & Rockwell, Chicago, Ill.
 Cook's Standard Tool Co. ("Standard"), Kalamazoo, Mich.

Dayton Malleable Iron Co., Dayton, O.
 Defiance Machine Works, Defiance, O.
DUFF MFG. CO. ("Barrett's") Differential, etc., N. S. Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Enreka Mower Co., Utica, N. Y.

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
 Foltz, H. C., Hagerstown, Md.

Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Illinois Iron & Bolt Co. ("I. I. & B. Co.") 1st Top, Car Box, Bell Base Ratchet, Tripod Ratchet, Ratchet Carrying, Track & Wagon Jack Screws, Carpentersville, Ill.

IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)
 Joyce-Cridland Co., 329 S. Lindeman, Dayton, O.
 Justice, Phillip S. & Co. (Ball Bearing), 421 Chestnut, Phila., Pa.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Lovejoy Tool Works ("Ball's Telescopic & Cone-Bearing Ratchet Screw"), 86 E. Ohio, Chicago, Ill.

McMaster-Carr Supply Co. ("Chicago" Engine Jack), 176 Lake, Chicago, Ill.

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
 Millers Falls Co., Millers Falls, Mass., & 28 Warren, New York

Morden, Frog & Crossing Co. ("Union"), Commercial Bank bldg., Chicago, Ill.
 Munnsville Plow Co. (Ratchet Jack Screws), Munnsville, N. Y.

Newell, J. F. & Co. ("Sampson"), Gardiner, Me.

New London Vise Works ("Peerless" Bell Bottom), New London, Conn.

Norton, A. O. (Ball Bearing Ratchet), 280 Congress, Boston, Mass.
 Oliver Mfg. Co. ("E-Z"), 203 S. Desplaines, Chicago, Ill.

Pearson Jack Co. ("Pearson"), Boston, Mass.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Quincy-Manchester-Sargent Co., 84 Van Buren, Chicago, Ill.

Riehle Bros. Testing Machine Co. ("Riehle Robie" Ball Bearing), 1424 N. 9th, Phila., Pa.
 Rumsey & Co. (Ltd.) (Cast & Wrought Iron Jack Screws), Seneca Falls, N. Y.

SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., 1133 B'way, New York. (See adv. index, end of book)
WATSON-STILLMAN CO., 30 Church, New York. (See adv. index, end of book)

Jacks (Stone)

Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wls.
 Brunner & Lay, 133 W. Polk, Chicago, Ill.

Buckeye Jack Mfg. Co., Louisville, O.
DUFF MFG. CO. ("Barrett's"), N. S. Pittsburg, Pa. (See adv. index & branch offices, end of book)

Harvey, H. H., 608 Atlantic av, Boston, Mass.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.) (Windlass), 169 Chambers, New York. (See adv. index, end of book)

Joyce-Cridland Co., Dayton, O.
 Kelly, L. J. Mfg. Co. ("Kelly's Albany"), Albany, N. Y.

Klemm, E. R., 103 W. Monroe, Chicago, Ill.
 Lincoln Iron Works (Geared Lifting), Rutland, Vt.
 Maynard, C. T. & Co., Fairhaven, Vt.

O'Leary, Arthur J. & Sons Co., 130 W. Lake, Chicago, Ill.
 Oliver Mfg. Co., 203 S. Desplaines, Chicago, Ill.
 Riehle Bros. Testing Machine, 1424 N. 9th, Phila., Pa.

Jacks (Tie Spacing & Straightening)

Belle City Malleable Co. ("Murray" Malleable Iron), Racine, Wls.

Jacks (Track)

American Skeln & Foundry Co. (Locomotive, Car Box & Ratchet Jack Screws), Racine, Wls.

Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wls.

Buckeye Jack Mfg. Co. ("Buckeye" Compound Lever), Louisville, O.

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.
 Cook's Standard Tool Co. ("Standard" Trip & Automatic Lowering), Kalamazoo, Mich.

DUFF MFG. CO. ("Barrett's"), N. S. Pittsburg, Pa. (See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
 Henderer's, A. L. Sons, Wilmington, Del.
 Illinois Iron & Bolt Co., Carpentersville, Ill.

Joyce-Cridland Co., Dayton, O.
 Justice, Phillip S. & Co. (Sure Drop), 421 Chestnut, Phila., Pa.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Lovejoy Tool Works ("Simplex"), 86 E. Ohio, Chicago, Ill.

Maxon-Miller Jack Co. ("Maxon-Miller" Lever), Huntington, W. Va.
 Morden Frog & Crossing Works ("Union"), Commercial Nat'l B'k bldg, Chicago, Ill.

Norton, A. O. (Sure Drop), Boston, Mass.
 Pettibone, Mulliken & Co. ("Jenne"), 204 Dearborn, Chicago, Ill.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.
 Topping Bros. ("Burrows," Ball Bearing), 122 Chambers, New York

Verona Tool Works, Pittsburg, Pa.

Jacks (Traveling)

DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)

Joyce-Cridland Co., 329 S. Lindeman, Dayton, O.
 Norton, A. O., 286 Congress, Boston, Mass.
 Turner, John T., Lowell, Mass.

*Jacks (Universal)

DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)

Jacks (Wagon)

(See also Jacks, Automobile)

American Skeln & Foundry Co. ("A. S. & F. Co." Jack Screws), Racine, Wls.
 Arcade Mfg. Co. ("Schofield" & "Chicago"), Freeport, Ill.

Barber Mfg. Co., Ashtabula, O.
 Barth Mfg. Co. ("Barth-Weiler" Reversible Lever, Malleable Iron & Cast Steel), 338 Milwaukee, Milwaukee, Wls.

Batavia Clamp Co. ("Colt's" U-Bar), Batavia, N. Y.
 Boston & Lockport Block Co. ("Lockport"), Boston, Mass.

Buckeye Mfg. Co., Anderson, Ind.
 Covert Mfg. Co. ("Covert's Victor"), Troy, N. Y.

Eureka Mower Co. (Steel & Malleable Iron), Utica, N. Y.
 Firnald Mfg. Co., North East, Pa.

Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
 Illinois Iron & Bolt Co. (Jack Screws), Carpentersville, Ill.

IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)

Jersey Brake Co. ("Searl's" Automobile & Carriage), Newark, N. J.
 Joy, A. P., Rockingham, N. H.

Joyce-Cridland Co., 329 S. Linden av, Dayton, O.
 Lane Bros. Co. (Steel), Poughkeepsie, N. Y.

Millers Falls Co. ("Power's"), 25 Warren, New York; Works: Millers Falls, Mass.
 Myers, F. E. & Bro., Ashland, O.

Oliver Mfg. Co. ("Peerless," "Samson," "Oliver" Practical), Chicago, Ill.
 Pioneer Pole & Shaft Co. ("Winner"), Piqua, Ohio

Porter, J. E. Co. ("Porter's" Never-Slip), Ottawa, Ill.
 Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.

Richards Mfg. Co. ("Tiger"), Aurora, Ill.
 Robertson, O. H., Forestville, Conn.
 Stearns, E. O. & Co. ("Stearns" All Steel), Syracuse, N. Y.

Torrey Bros. Co. ("Eclipse," "Little Giant"), Central Village, Conn.

*Jacks (Wrecking)

DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Jail & Cell Work (Steel)

Adams Steel & Wire Works, Joliet, Ill.
 Barnum, E. T. Wire & Iron Works (Steel Cells), 82 Washington av., Detroit, Mich.
 Belmont Iron Works, 22d & Wash'n av., Phila., Pa.

CHAMPION IRON CO., Kenton, O.
 (See adv. index, end of book)
 Chattanooga Iron & Wire Works, Chattanooga, Tenn.

COLUMBIA IRON & WIRE WORKS Co., Canton, O. (See adv. index, end of book)

Covington Architectural Iron Works, Covington, Ky.
 Creswell, Sam'l J. Iron Works, 23d & Cherry, Phila., Pa.

Crown Iron Works Co., Minneapolis, Minn.
 Diebold Safe & Lock Co. (Steel Cells Only), Canton, O.

HALL'S SAFE CO., Main Office & Works, Spring Grove av., Cincinnati, O.
 (See adv. index, end of book)

Herring-Hall-Marvin Safe Co., 400 B'way, New York, Works, Hamilton, O.

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

National Prison & Vault Engineering Co. (Engineers, Contractors and Mfrs.), 921 F. N. W., Washington, D. C.

Ornamental Iron & Wire Co. (Inc.), Portsmouth, Va.
 Pauly Jail Building Co., 2215 DeKalb, St. Louis, Mo.

Phoenix Iron Works, Portland, Ore.
REMPIS, WM. F. CO., Reading, Pa., & 1506 Sansom, Phila., Pa. (See adv. index, end of book)

SCHREIBER, L. & SONS CO., 8th & Eggleston av., Cincinnati, O. (See adv. index & branch offices, end of book)

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Snead Arch'l Iron Works, Louisville, Ky.
 Stewart Jail Works Co., Covington, Ky.
 Turner & Brownlie (Steel Cages), Des Moines, Ia.

VAN DORN IRON WORKS CO., 2085 E 79th, Cleveland, O. (See adv. index, end of book)

VULCAN CO., Detroit, Mich. (See adv. index, end of book)
 Western Iron Works, 123 Beale, San Francisco, Cal.

Whitehead & Kales Iron Works, Detroit, Mich.
 York Safe & Lock Co., York, Pa.

Japans

(See Varnish Manufacturers)

Japans (Baking)

Ajax Paint Co. ("Woodpecker"), Indianapolis, Ind.
 Akron Varnish Co., Akron, O.
 Chicago Varnish Co., 855 Elston av., Chicago, Ill.

FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Forest City Paint & Varnish Co., Cleveland, O.
 Lucas, Jno. & Co., 322 Race, Phila., Pa.

Moller & Schumann, B'way & Marcy av., Brooklyn, N. Y.
 Standard Varnish Works, 29 B'way, New York
THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)
 Wilhelm, A. Co., Reading, Pa.
 Woodhouse, Samuel F., Unity & Franklin, Phila., Pa.

Jars (Acid)

Stelger Terra Cotta & Pottery Works, San Francisco, Cal.

Jars (Battery)

(See Battery Jars)

Jars (Fruit)

Ball Bros. Glass Mfg. Co., Muncie, Ind.
 Clyde Glass Works, Clyde, N. Y.
 Consolidated Fruit Jar Co. ("Boyd's" Porcelain Lined & "Mason"), New Brunswick, N. J., & 290 B'way, New York

Flacens, C. L. Glass Co., Empire bldg., Pittsburg, Pa.

Hazel Atlas Glass Co. (Glass), Wheeling, W. Va.
 Hemminger Glass Co., Covington, Ky.

Hermetic Closure Co. (Vacuum & Preserving Jars), 1142 W 16th, Chicago, Ill.
 Illinois Pacific Glass Co., San Francisco, Cal.
 Manington Glass Works Co. (Machine Made), Manington, W. Va.

Marion Fruit Jar & Bottle Co., Mariou, Ind.
 Root Glass Co., Terre Haute, Ind.

Jars (Milk)

Manington Glass Works Co. (Machine Made), Manington, W. Va.

***Jig Mills (Ship Yard)**

MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Jigs (Coal)

American Concentrator Co. (For Anthracite & Bituminous), Joplin, Mo.
 Denver Engineering Works Co., Blake & 30th, Denver, Col.

Pittsburg Coal Washer Co., Pittsburg, Pa.
 Stroh, W. H. (Est of) Mauch Chunk, Pa.
 Tamaqua Mfg. Co. ("Christ" Patent), Tamaqua, Pa.

Wallace, Samuel. White Haven, Pa.

Jigs (For Concentrating Mills)

ALLIS-CHALMERS CO. ("Hancock"), Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Concentrator Co. ("New Century" Differential, Fast & Eccentric Motion, Tailings, Coal Washing & Iron Ore Washing), Basic City, Va.

National Ore Concentration Co., 1st Nat'l B'k bldg., Chicago, Ill.
 Pittsburg Coal Washer Co., Pittsburg, Pa.

Portage Lake Foundry & Machinery Co., Hancock, Mich.
 Power & Mining Machinery Co. ("Colton" Hartz), Cudahy, Wis.

Jigs (Mining)

Denver Engineering Works ("Richards" Pul-sator), Denver, Col.
 McFarlane Mfg. Co., Denver, Colo.
 McLanahan-Stone Machine Co. ("McLanahan"), Hollidaysburg, Pa.

***Jigs & Fixtures (Drilling Machine)**

NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)

Jim-Crows

(See also Rail Benders)

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
 Union Drop Forge Co., Chicago, Ill.

Jointers (Masons')

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Stortz, John & Son, 210 Vine, Phila., Pa.

Jointers (Pipe)

Lord, L. L. Co. ("Lord" Asbestos Lead Pipe Joint Reamer), Meadville, Pa.
 Mueller, H. Mfg. Co. (For Cast Iron Pipe), Decatur, Ill.

Water Works Equipment Co. ("Star"), 50 Church, New York

Jointers (Saw Tooth)

Mlxter, J. W. Saw Tool Co. (Or Side File), Plymouth, Mass.
 Stearns, E. C. & Co., Syracuse, N. Y.

Jointers (Shingle)

American Sawmill Machinery Co. (Rotary), 50 Church, New York, Works, Hackettstown, N. J.
 Lyon Iron Works, Greenc, N. Y.

Jointers (Stave)

American Sawmill Machinery Co., 50 Church, New York, Works, Hackettstown, N. J.
 Stralt, H. N. Mfg. Co. (Wheel, Barrel & Keg), Kansas City, Mo.

***Joints (Automobile)**

WIDMER MACHINE WORKS, Detroit, Mich. (See adv. index, end of book)

Joints (Ball)

(See also Joints, Flexible; also Joints, Universal)

American District Steam Co., Lockport, N. Y.
 Boston Gear Works (Solid Ball, Hub Steel & Brass Universal Joint Couplings), Norfolk, Mass.

Clow, Jas. B. & Sons (Flexible), 311 Franklin, Chicago, Ill.

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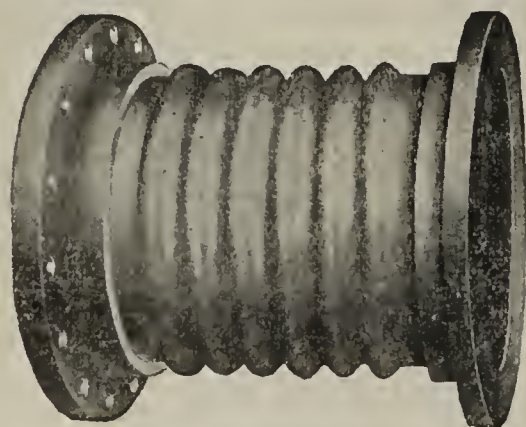
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 Walker Mfg. Co., Fenton, Mich.

*Joints (Brass Spring)

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Joints (Cable)

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 Matthews, W. N. & Bro. ("Hargis"), St. Louis Mo.
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 Best Mfg. Co., 25th & A. V. Ry, Pittsburg, Pa.
 Bordo, L. J. Co. (Inc.) ("Bordo" Swing Joints), 12th & Thompson, Phila., Pa.
 Bridgman Bros. Co. (Brass & Iron Body), 1422 Washington av, Phila., Pa.
 Buckeye Iron & Brass works, Dayton, O.
 Central Brass Works, Cincinnati, O.
 Central Station Steam Co. (Packings), Detroit, Mich.
 Coffin Valve Co. (For Pipe Mains), Neponset, Boston, Mass.
 Coldwell-Wilcox Co., Newburgh, N. Y.
 Crane Co. (Est. 1855), 511 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
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 Dame & Townsend Co. (Copper), Cliff & F. Davis, John Co., Chicago, Ill.
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 Edwardsville Brass Co., Edwardsville, Ill.
 Haydenville Co., Haydenville, Mass.
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 Hoffmann & Billugs Co., Milwaukee, Wis.
 Holmes, A. L., Grand Rapids, Mich.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Kaltenthaler, H. J. (Iron Body), 230 Cherry, Phila., Pa.

Kling Machine Works, Reading, Pa.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McNab & Harlin Mfg. Co., 56 John, New York
 National Tube Co. (Brass & Iron), Pittsburg, Pa.

OIL WELL SUPPLY CO., 215 Water. Pittsburg, Pa. (See adv. index, end of book)
 Pearce, W. H. & Co. ("Crescent"), 269 Dearborn, Chicago, Ill.

Powell, Wm. Co., 2525 Spring Grove av, Cincinnati, O.
 Queen City Brass & Iron Works (Brass, etc.), Cincinnati, O.

Schaeffer & Budenburg Mfg. Co., 960 Kent av, Brooklyn, N. Y.
 Thompson, J. & Co., Van Horn & Sophia, Phila., Pa.

Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Joints (Filtering)

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 Lee, Thomas (For Obtaining Pure Cistern Water), Cincinnati, O.

Joints (Flexible)

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Drummond, M. J. & Co. (Pipe), 182 B'way, New York

Greenlaw Mfg. Co. ("Greenlaw"), 141 Milk, Boston, Mass.

Moran Flexible Steam Joint Co. (For Steam, Air or Liquid, all Metal), Louisville, Ky.

Power Specialty Co. ("Harter" Ball, for Piping), 111 B'way, New York

Sullivan Machinery Co. (For Rock Drills & Chaulcers), Railway Exchange bldg, Chicago, Ill.

Walker Mfg. Co. (Pipe or Ball Joints), Fenton, Mich.

Wood, R. D. & Co. (Pipe), 400 Chestnut, Phila., Pa.

Joints (Insulating)

(See Insulating Joints)

Joints (Ladder)

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STANLEY WORKS (Wrought Steel). New Britain, Conn. (See adv. index & branch offices, end of book)

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 Eastwood Wire Mfg. Co., Belleville, N. J.
 Fries & Co., Buffalo, N. Y.
 Hoffmann, B. Mfg. Co., Milwaukee, Wis.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Joints (Universal)

Baush Machine Tool Co. ("Bocorselski"), Springfield, Mass.
 Blood Bros. Machine Co. (For Automobiles, etc.), Kalamazoo, Mich.
 Boston Gear Works (Bronze), Norfolk Downs, Mass.
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
CENTRAL FOUNDRY CO. ("Universal"), 37 Wall, New York. (See adv. index, end of book)

Eynon-Evans Mfg. Co., Phila., Pa.
 Gem Mfg. Co. ("Gem," "G. & P."), Pittsburg, Pa.

Gould & Eberhardt, Newark, N. J.

Gray & Prior Machine Co., Hartford, Conn.

Hartford Auto Parts Co., Hartford, Conn.

Klusler-Bennett Co. (Pin), Hartford, Conn.

Laird Co. ("The Tubbs"), 149 3d, Louisville, Ky.

Michigan Wheel Co., Grand Rapids, Mich.

Reilly, J. J. Mfg. Co., Louisville, Ky.

Spicer Universal Joint Mfg. Co. ("Spicer" for Automobiles, etc.), Plainfield, N. J.

Walker Mfg. Co., Fenton, Mich.

Walworth Mfg. Co., Boston, Mass.

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Joist Anchor & Timber Caps

(See also Hangers, Joist)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)

Goetz Box Anchor Co., New Albany, Ind.

Van Dorn Iron Works Co., 1793 E Madison av, Cleveland, O.

Joist Hangers

(See Hangers, Joist)

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Counors, Wm. Paint Mfg. Co., Troy, N. Y.

Fox, M. Ewing & Co., 136th st & Rldr av, New York

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 Whittaker, W. H., 245 Front, New York
 Woolsey, C. A. Paint & Color Co., Jersey City, N. J.

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 Edgar Plastic Kaolin Co., Metuchen, N. J.
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 Immaculate Kaolin Co., Langley, S. C.
KREISCHER BRICK MFG. CO., 119 E 23d, New York. Works, Kreischerville, S. I., N. Y. (See adv. index, end of book)
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 Ostrander Fire Brick Co., Troy, N. Y., & Ostrander, N. J.
 Palattakaha Kaolin Co., Leesburg, Fla.
 Peerless Clay Co., Langley, S. C.
 Philadelphia Clay Co. (Miners & Shippers), 1201 Chestnut, Phila., Pa.
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 Welsh Mountain Mining & Kaolin Mfg. Co., Honeybrook, Pa.

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 Bridge's, A. D. Sons (Powder), Hazardville, Conn.
 Brooklyn Cooperage Co. (Nail, etc.), 117 Wall, New York
 Budke Mfg. Co. (Steel Powder), 421 Wood, Pittsburg, Pa.
 Granite City Steel Keg Co. (Steel), Granite City, Ill.
 Greif Bros. Co. (Nail, Bolt, etc.), Cleveland, Ohio
 Gulf Cooperage Co., Pittsburg, Pa.
 Impervious Package Co. (Nail, etc.), Keene, N. H.
 Peirce, W. E. & Co., Milford, N. H.

Schwarzwalder, J. & Sons (Nail, etc.), 32 Stone, New York
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Kegs (Steel Shop)

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 Cleveland Wire Spring Co., Cleveland, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Lyon Metallic Mfg. Co., Aurora, Ill.
 Ohio Mfg. Co., Painesville, O.
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Illinois Pure Aluminum Co., Lemont, Ill.

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Kettles (Asphalt)

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 Donaldson Bros., Mt. Clemens, Mich.
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 Lehr Agricultural Co., Fremont, O.
 Lyon Iron Works, Greene, N. Y.
 Moore Plow & Implement Co., Greenville, Mich.
 Munnsville Plow Co., Munnsville, N. Y.
 Sellers, Edward, Oak Park, Pa.
 Stuart & Peterson Co., Burlington, N. J.
 Vulcan Copper Works, 120 Syracuse, Cincinnati, Ohio

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 Meehan Boiler & Construction Co., Lowellville, O.
 Pollock, Wm. B. Co., Youngstown, O.
REEVES BROS. CO. (Riveted & Welded), Alliance, O. (See adv. index & branch offices, end of book)
 Warren City Tank & Boiler Co., Warren, O.
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 Townsend Foundry & Machine Shop Co. (Aniline, Albany, N. Y.)

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Smith & Anthony Co., Boston, Mass.

Sperry, D. R. & Co., Batavia, Ill.

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Hibbs, E. A., 209 Quarry, Phila., Pa.

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Lyman, W. C., 49 Michigan, Chicago, Ill.

MCCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)

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Pollock, Alex. Co., 203 West, New York

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Schalkenbach & Budke, Jersey City, N. J.

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Wright, Stafford, Lawrence, Mass.

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Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

Key Seaters

(See Machines, Key-Seating)

Keys (Brake Shoe)

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Quincy-Manchester-Sargent Co. ("Q. & C."), Plainfield, N. J.

Steel Car Forge Co. (Iron or Steel for Christie Heads), Pittsburg, Pa. Works, Elwood City, Pa.

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(See also Cotters, Spring, Etc.)

Brooks, M. S. & Sons (Flat Steel Spring or Riveted), Chester, Conn.

Cobb & Drew (Flat Steel Spring & Flat Riveted), Plymouth, Conn.

Hallinger Fence Co. (Flat Steel Spring), Greenville, O.

Haskell, W. H. Mfg. Co., Pawtucket, R. I.

Hindley Mfg. Co. ("Columbia" Flat & Flat Spring Steel), Valley Falls, R. I.

National Screw & Tack Co. (Flat Steel Spring or Riveted), Cleveland, O.

Pickering, R. S. (Steel Flat Spring & Riveted), Sharon Hill, Pa.

Smith, F. P. & Co. (Flat & Flat Spring, Steel), Sharon Hill, Pa.

WHITMAN & BARNES MFG. CO. (Brass, Steel & Copper), Chicago, Ill. (See adv. index & branch offices, end of book)

Wire Goods Co. (Iron & Brass Flat Spring), Worcester, Mass.

Keys (Machine)

Hall Mfg. Co. (Finished), John & Cliff, New York

Henry & Allen, Auburn, N. Y.

Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

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Meyer & Co. (Gib Head), Auburn, N. Y.

Morton Mfg. Co. (Finished Ready to Drive), Muskegon Heights, Mich.

Olney & Warrin (Finished Gib & Plain Head), Center & Leonard, New York

Sandwich Mfg. Co., Sandwich, Ill.

STANDARD GAUGE STEEL CO. (Finished Steel), Beaver Falls, Pa. (See adv. index, end of book)

Whitney Mfg. Co. (For the Woodruff System of Keying), Hartford, Conn.

Keys (Riveted)

(See Keys, Flat Spring & Riveted)

Keys (Socket, Rubber & Composition)

Auburn Button Works, Auburn, N. Y.

Dickinson Mfg. Co., Springfield, Mass.

Electro Mfg. Co., 127 N 10th, Brooklyn, N. Y.

Scranton Button Co., Scranton, Pa.

Siemon Hard Rubber Corp., Bridgeport, Conn.

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Oliver Iron & Steel Co., Pittsburg, Pa.

Killers (Fly)

Bigelow, J. F., Worcester, Mass.

OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)

Killers (Iron)

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Kiln Drying Apparatus Mfrs.

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National Blower Works, 17th & St. Paul av, Milwaukee, Wis.

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Sturtevant, B. F. Co., Hyde Park, Mass.

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(See also Dryers, Brick; also Kiln Drying Apparatus Manufacturers)

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American Blower Co., Detroit, Mich.

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Emerson Co. ("Emerson" Automatic Moist Air for Lumber, etc.), 111 N Charles, Baltimore, Md.

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Kilns (Rotary)

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 Penfield Saw Works, Bristol, Conn.
 Pittsburg Shear, Knife & Machine Co., 47th &
 R. R. av, Pittsburgh, Pa.

Rowe & Trummel, 123 W 2d, Cincinnati, O.
 Russell, John B., Napanoch, N. Y.
 Sandusky Tool Co. (Planer, etc.), Sandusky, O.
 Simonds, A. A. & Son Co., Dayton, O.
 Simons Mfg. Co., Fitchburg, Mass.
 Simonds Saw Co., 33 Market, San Francisco,
 Cal.
 Snell & Atherton, Brooklyn, Mass.
 Southern Saw Works, Atlanta, Ga.

Stortz, Jno., & Son, 210 Vine, Philadelphia,
 Pa.
 Stubbs, Simeon K., 32 Kemble, Boston, Mass.
 Taylor Bros. & Co., Fulton, N. Y.
 Taylor, Stiles & Co., Riegelsville, N. Y.
 Thomson, W. S., 418 W 27th, New York
 Toland & Son, Baltimore, Md.
 Toledo Saw Co., Toledo, O.
 White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
 Willott, J. & Sons, Manitowoc, Wis.
 Worden Tool Co., 1854 Scranton rd, Cleveland,
 Ohio

Knives (Machine, Wood Work- ing)

(See Knives, Wood Working Machine)

*Knives (Marble Cutter Bit)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Matcher)

(See Knives, Wood Working Machine)

*Knives (Meat Slicer)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

*Knives (Metal Shear)

BLISS, E. W. Co., 19 Adams, Brooklyn,
 N. Y. (See adv. index, end of book)
COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Mincing)

Arcade Mfg. Co., Freeport, Ill.
 Browne & Dowd Mfg. Co. ("B & D Co."), Meri-
 den, Conn.
 Cassidy-Fairbank Mfg. Co., 6106 La Salle,
 Chicago, Ill.
 Forsyth Mfg. Co. (No. 801), Buffalo, N. Y.

Kilbourne Mfg. Co., Troy, N. Y.
 Landers, Frary & Clark, New Britain, Conn.
 New England Specialty Co., North Easton,
 Mass.

Potter Mfg. Co. ("Potter"), Geneva, O.

*Knives (Mitre)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Simonds Mfg. Co., Fitchburg, Mass.

Knives (Moulding Machine)

(See Knives, Wood Working Machine)

Knives (Mower & Reaper)

Akron Machine Co., Akron, O.
 Henry & Allen, Auburn, N. Y.
 Herschel, R. Mfg. Co., Peoria, Ill.
 Mason, F. C. & Co., St. Johns, Mich.
 Whitaker Mfg. Co., 30 W. Monroe, Chicago,
 Ill.

WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch of-
 fices, end of book)

Knives (Oil Cloth)

Braunsdorf-Mueller Co., Elizabeth, N. J.
 Haag, F. & G. & Co., 170 Center, New York
 Harrington Cutlery Co. ("Dexter"), South-
 bridge, Mass.

Tuck Mfg. Co., Brockton, Mass.

*Knives (Overlay)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Oyster & Clam)

Carver Tool Works (Carver's), Spring Valley,
 N. Y.
 Clyde Cutlery Co., Clyde, Ohio
 Dame, Stoddard & Co. ("R. Murphy's"), Bos-
 ton, Mass.
 Foster Bros. & Chatillon Co., Fulton, N. Y.
 Harrington Cutlery Co. ("Dexter"), South-
 bridge, Mass.

Johnson, Wm. (Hedenberg Works), Newark,
 N. J.
 Landers, Frary & Clark, New Britain, Conn.
 Richard, Stephen Co. ("S. R."), Southbridge,
 Mass.

Stortz, John, & Son, 210 Vine, Phila., Pa.
 Tuck Mfg. Co., Brockton, Mass.
 Vaughn & Bushnell ("V. & B."), Chicago, Ill.

Knives (Painters')

Lamson & Goodnow Mfg. Co., Shelburne Falls,
 Mass.

*Knives (Panel Raising)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Paper)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
 Cleveland Machine Knife Co., 946 West, N
 W, Cleveland, O.

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Foster Bros. & Chatillon Co., Fulton, N. Y.
 Hiles, C. A., & Co., 14th & Western av, Chi-
 cago, Ill.

Jacques, John & Son, Worcester, Mass.
 Mack & Co., Rochester, N. Y.
 Simons Mfg. Co., Fitchburg, Mass.
 Taylor Bros. & Co., Fulton, N. Y.

*Knives (Paper Box Machine)

COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)

Knives (Paper Cutter)

American Knife Co., Baldwinville, N. Y.
COES, LORING & CO. (Inc.), Worces-
 ter, Mass. (See adv. index, end of book)
 Detroit Edge Tool Works, Detroit, Mich.
 Hankey, A. & Co., Rochdale, Mass., & 1213
 Race, Phila., Pa.
 Lancaster Machine & Knife Works, Lancaster,
 Ohio Knife Co. (The), Cincinnati, O.
 N. Y.
 Simonds, A. A. & Son Co., Dayton, O.
 Simons Mfg. Co., Fitchburg, Mass.
 Taylor Bros. & Co., Fulton, N. Y.
 Worden Tool Co., 1854 Scranton rd, N W,
 Cleveland, O.

Knives (Paper Hangers')

American Cutlery Co., 193 Mather, Chicago, Ill.
Clyde Cutlery Co., Clyde, O.
Dame, Stoddard & Co. ("R. Murphy's"), Boston, Mass.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Landers, Frary & Clark, New Britain, Conn.
Murphy, Robt., & Sons, Ayer, Mass.
Northampton Cutlery Co., Northampton, Mass.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Tuck Mfg. Co., Brockton, Mass.

Knives (Paring)

American Cutlery Co., 193 Mather, Chicago, Ill.
AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Clauss Shear Co. ("Clauss"), Fremont, O.
Edmonds-Metzel Mfg. Co. ("Perpetual"), 1090 Wilcox av, Chicago, Ill.
National Cutlery Co., Detroit, Mich.
Ontario Knife Co., Franklinville, N. Y.
Phoenix Hardware Mfg. Co., Homer, N. Y.
White, Ira F., & Son Co., Newark, N. J.

Knives (Planer)

American Knife Co., Baldwinsville, N. Y.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Chicago Knife Wks., 179 S Clinton, Chicago, Ill.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Curtis Mfg. Co. ("Empire"), St. Louis, Mo.
Detroit Edge Tool Works, Detroit, Mich.
Dowd, R. G. Knife Works, Beloit, Wis.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Hardisty & Co., Cincinnati, O.
Lancaster Machine & Knife Works, Lancaster, Mack & Co., Rochester, N. Y.
Sandusky Tool Co., Sandusky, O.
Simonds A. A. & Son Co., Dayton, O.
Simonds Mfg. Co., Fitchburg, Mass.
Taylor Bros. & Co., Fulton, N. Y.
Taylor, Stiles & Co., Riegelsville, N. Y.
Worden Tool Co., 1854 Scranton road, Cleveland, O.

*Knives (Plush)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Pocket)

(See Cutlery Manufacturers)

Knives (Putty)

American Cutlery Co., 193 Mather, Chicago, Ill.
Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
Browne & Dowd Mfg. Co. ("B. & D. Co."), Goodell Co., Antrim, N. H.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Lambson & Goodnow Mfg. Co., Shelburne Falls, Mass.
Landers, Frary & Clark, New Britain, Conn.
Meriden Cutlery Co., Meriden, Conn.
National Cutlery Co., Detroit, Mich.
Northampton Cutlery Co., Northampton, Mass.
Ontario Knife Co., Franklinville, N. Y.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Stortz, John & Son, 210 Vine, Phila., Pa.
White, Ira F., & Son Co., Newark, N. J.

Knives (Rag Cutter)

American Knife Co., Baldwinsville, N. Y.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Detroit Edge Tool Works, Detroit, Mich.
Dunn Edge Tool Co., Oakland, Me.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Ohio Knife Co. (The), Cincinnati, O.
Simonds, A. A. & Son Co., Dayton, O.
Simonds Mfg. Co., Fitchburg, Mass.
Taylor Bros. & Co., Fulton, N. Y.
Taylor, Stiles & Co., Riegelsville, N. Y.
Worden Tool Co., 1854 Scranton rd. N W, Cleveland, O.

*Knives (Rand)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

*Knives (Rattan)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

*Knives (Roll Scraper)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Rubber)

Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Tuck Mfg. Co. (for Heavy Electrical Rubber Goods), Brockton, Mass.

*Knives (Scallop)

KNOWLTON, M. D. CO., Rochester,
N. Y. (See adv. index & branch offices, end of book)

Knives (Scarfer)

Blake & Johnson, Waterbury, Conn.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Scraper)

American Cutlery Co., 193 Mather, Chicago, Ill.
Landers, Frary & Clark, New Britain, Conn.
Northampton Cutlery Co., Northampton, Mass.
Simonds Mfg. Co., Fitchburg, Mass.

Knives (Shear Cutter)

American Knife Co., Baldwinsville, N. Y.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Simonds, A. A. & Son Co., Dayton, O.
Simonds Mfg. Co., Fitchburg, Mass.

*Knives (Sheet Steel)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Shingle)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Mack & Co., Rochester, N. Y.
Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., 1854 Scranton road, Cleveland, O.

Knives (Shoe)

American Cutlery Co., 193 Mather, Chicago, Ill.
Cohurn, F. W., New Durham, N. H.
Dame, Stoddard & Co. ("R. Murphy's"), Boston, Mass.
Harrington Cutlery Co. ("Dexter"), Southbridge, Mass.
Harrington, T. J., Southbridge, Mass.
Hayes Bros., New Durham, N. H.
Hyde Mfg. Co., Southbridge, Mass.
Kimball, C. J. Co., Bennington, N. H.
Landers, Frary & Clark, New Britain, Conn.
Meriden Cutlery Co., Meriden, Conn.
Murphy, Robt., & Sons, Ayer, Mass.
New England Specialty Co., N. Easton, Mass.
Ontario Knife Co., Franklinville, N. Y.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Tuck Mfg. Co. ("S. V. Tuck," "T. M. Co.," "Black Diamond"), Brockton, Mass.
White, Ira F., & Son Co., Newark, N. J.

Knives (Shredder)

Akron Machine Co., Akron, O.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Henry & Allen, Auburn, N. Y.

*Knives (Skiver)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Slaw & Vegetable)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Solid Steel Shear)

Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
Heppenstall Forge & Knife Co., Pittsburgh, Pa.
Tretheway, Samuel, & Co., 47th & Plummer, Pittsburg, Pa.

*Knives (Spiral, of All Classes)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

*Knives (Spiral Tenon)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

*Knives (Splitter)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Spoke Lathe)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Dowd, R. G. Knife Works, Beloit, Wis.
Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Sandusky Tool Co., Sandusky, O.
Taylor Bros. & Co., Fulton, N. Y.

Knives (Sportsmen's)

Billings & Spencer Co. ("Billings"), Hartford, Conn.

Knives (Stave Cutter)

American Knife Co., Baldwinsville, N. Y.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Bradley's, G. W. Sons (Inc.), Westport, Conn.
Cleveland Machine Knife Co., 946 West, N W, Cleveland, O.
COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Dowd, R. G. Knife Works, Beloit, Wis.
Taylor Bros. & Co., Fulton, N. Y.
Worden Tool Co., 1854 Scranton road, N W, Cleveland, O.

*Knives (Stereotype)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

*Knives (Stop Cutter)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Straw Cutter)

(See Knives, Hay & Corn Cutter)

*Knives (Tack Machine)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Tanners' Skiving)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)
Foster Bros. & Chatillon Co., Fulton, N. Y.

*Knives (Textile Shear)

COES, LORING & CO. (Inc.), Worces-
ter, Mass. (See adv. index, end of book)

Knives (Tobacco)

American Cutlery Co., 193 Mather, Chicago, Ill.
AMERICAN TAP & DIE CO., Green-
field, Mass. (See adv. index, end of book)
Anderson Knife & Bar Co., Anderson, Ind.
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Clyde Cutlery Co. (Beech Handle), Clyde, O.

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
 Lancaster Machine & Knife Works, Lancaster, Oldham, Joshua & Sons (Ltd.), 112 26th Brooklyn, N. Y.
 Russell, Jno. B. ("Diamond Edge"), Napanoch, Simonds Mfg. Co., Fitchburg, Mass. N. Y.
 Worden Tool Co., 1854 Scranton road, N. W. Cleveland, O.

Knives (Veneer)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
 Cleveland Machine Knife Co., 946 West, N. W. Coe Mfg. Co., Palmsville, O. Cleveland, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
 Dowd, R. G., Knife Works, Beloit, Wis.
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
 Hiles, C. A., & Co., 14th & Western av., Chicago, Ill.
 Lancaster Machine & Knife Works, Lancaster, Simonds Mfg. Co., Fitchburg, Mass. N. Y.
 Taylor Bros. & Co., Fulton, N. Y.
 Worden Tool Co., 1854 Scranton road, N. W. Cleveland, O.

Knives (Wood Barking Machine)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
 Cleveland Machine Knife Co., 946 West, N. W. Cleveland, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
 Detroit Edge Tool Works, Detroit, Mich.
 Mills & Merrill, Saginaw, Mich.
 Taylor Bros. & Co., Fulton, N. Y.

Knives (Wood Flooring Machine)

(See Knives, Wood Working Machine)

Knives (Wood Pulp)

Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
 Cleveland Machine Knife Co., 946 West, N. W. Cleveland, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
 Simons Mfg. Co., Fitchburg, Mass.
 Taylor Bros. & Co., Fulton, N. Y.

Knives (Wood Surfacing Machine)

(See Knives, Wood Working Machine)

Knives (Wood Tenoning Machine)

(See Knives, Wood Working Machine)

Knives (Wood Working Machine)

American Knife Co., Baldwinsville, N. Y.
 Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
 Chicago Knife Works, 179 S. Clinton, Chicago, Ill.
 Cleveland Machine Knife Co., 946 West, N. W. Cleveland, O.
COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)
 Detroit Edge Tool Works, Detroit, Mich.
 Dowd, R. G., Knife Works, Beloit, Wis.
 Foster Bros. & Chatillon Co., Fulton, N. Y.
 Foucart, J. E., Williamsport, Pa.
 Hankey, A. & Co., Rochdale, Mass., & 1213 Race st., Philadelphia, Pa.
 Mack & Co., Rochester, N. Y.
 Simmonds, A. A., & Son Co., Dayton, Ohio
 Simonds Mfg. Co., Fitchburg, Mass.
 Taylor Brothers & Co., Fulton, N. Y.
 Worden Tool Co., Cleveland, Ohio

Knives & Cutters (Serrated)

Rotary File & Machine Co., 589 Kent av., Brooklyn, N. Y.

Knobs (Base)

Champion Safety Lock Co. ("Champion" Metallite "Neverbreak"), Geneva, O.

Knobs (Carpet)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 Wilcox, Crittenden & Co. (Brass Heads, Wrought Nails; also Grommets), Middletown, Conn.

Knobs (Drawer & Shutter)

Yale & Towne Mfg. Co., 9 Murray, New York

Knobs (Glass)

Bache, Semon & Co., West & Hubert, New York

Knockers (Door)

Jannsch Mfg. Co., 496 E 134th, New York
 Jending Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn.
 Yale & Towne Mfg. Co., 9 Murray, New York

Knuckles (Steel)

American Steel Foundries (Open Hearth), Commercial National Bank bldg., Chicago, Ill.
 Buckeye Steel Castings Co. (Open Hearth), Columbus, O.
 Chester Steel Castings Co., Chester, Pa., & 407 Sanson, Philadelphia, Pa.
 General Castings Co., Verona, Pa.
 Gould Coupler Co., 345 5th av., New York
 National Car Coupler Co. ("Illusion Emergency"), Monadnock blk., Chicago, Ill. Works: Attica, Ind.
 National Steel Casting Co., Montpelier, Ind.
 Zulucy - Manchester - Sargent Co. ("Gillman-Brown" Emergency), Plainfield, N. J.

Knurls

Brannsdorf-Mueller Co., Elizabeth, N. J.
 Welch, T. F. & Co., 55 Sudbury, Boston, Mass.
 Wilkinson, A. J. & Co., 180 Washington, Boston, Mass.

Krushite (For Sawing Stone)

Frederic, J. H. & Son, Rutland, Vt.

Kryolith

Penna. Salt Mfg. Co. (of Greenland), 115 Chestnut, Phila., Pa.

Label Mfrs.

American Label Co., 34 Cooper sq., New York
 American Label Mfg. Co., Baltimore, Md.
 Conkey, W. B., Co., Hammond, Ind.
 Kittredge, R. J. & Co., 103 W Superior & Green, Chicago, Ill.
 Maryland Color Printing Co., Baltimore, Md.
 Perfection Mfg. Co. (Florists), Detroit, Mich.
 Reyburn Mfg. Co., 22nd & Allegheny av., Philadelphia, Pa.
 U. S. Printing Co., 110 W 34th & Lock, Cincinnati, O.

*Labels (Gas Meter)

AMERICAN RAILWAY SUPPLY CO., 26 Park pl., New York. (See adv. index, end of book)

*Labels (Gummed)

TABLET & TICKET CO., 70-86 W Jackson blvd., Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

Laboratories (Cement Testing)

Mollan, E. A., 131 Van Buren, Chicago, Ill.
TRUSSED CONCRETE STEEL CO., Trussed Concrete bldg., Detroit, Mich. (See adv. index & branch offices, end of book)

*Laboratories (Chemical & Physical)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Laboratories (Testing)

Rooth, Garrett & Blair (Cement Plants a Specialty), 404 Locust, Phila., Pa.
 California Ore Testing Co., 425 Wash'n, San Francisco, Cal.
 Detroit Testing Laboratory, Detroit, Mich.
 Electrical Testing Laboratories, 80th & East End av., New York
 Hunt, R. W. & Co., The Rookery, Chicago, Ill.
 Lathbury, B. B. (Cement), Land Title bldg., Philadelphia, Pa.
 Lehigh Valley Testing Laboratory (Cement), Allentown, Pa.
 Pittsburg Testing Laboratory (Ltd.), 325 Water, Pittsburg, Pa.
 Rome Testing Laboratory, Rome, Ga.
 St. Louis Sampling & Testing Works (Ores, Fuels, etc.), 1225 Spence, St. Louis, Mo.
 Spackman, Henry S. Engineering Co., 42 N 16th, Phila., Pa.

Laboratory Apparatus & Supplies

Bausch & Lomb Optical Co., Rochester, N. Y.
 Eumer & Amend, 205 3d av., New York
HOWARD & MORSE (Sieve Agitators, Vicat Needles, Penetrometers & Testing Sieves, etc.), 45 Fulton, New York. (See adv. facing first page of Index of Contents)
 International Instrument Co., 23 Church, Cambridge, Mass.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Sargent, E. H., & Co. (Especially for Sugar Factories), 143 E Lake, Chicago, Ill.
 Scientific Materials Co., Pittsburg, Pa.

Lace Leather

(See Belt Lacing)

Lacquer Mfrs.

Acme White Lead & Color Works, Detroit, Mich.
 American Lacquer Co., Bridgeport, Conn.
 Ault & Wiborg Co., Cincinnati, O.
 Barrett, M. L. & Co. ("Swastika"), 219 E Lake, Chicago, Ill.
 Chicago Wood Finishing Co., 259 Elston, Chicago, Ill.
 Cooper, Chas. & Co., 194 Worth, New York
 Cullen, F. C. & Co., 704 W Lake, Chicago, Ill.
 Egyptian Lacquer Mfg. Co., 152 Front, New York
 Feigel, M. & Bro. (Importers), 147 Wooster, New York
 Forest City Paint & Varnish Co., Cleveland, Ohio
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Glidden Varnish Co., Rockefeller bldg., Cleveland, O.
 Hanson & Van Winkle Co., Newark, N. J.
 Hommel, O. Co., 400 Duquesne Way, Pittsburg, Pa.
 Lucas, Jno. & Co., 322 Race, Philadelphia, Pa.
 Moller & Schumann, Marcy & Flushing avs., Brooklyn, N. Y.
 New Era Lustre Co. (Verde Antique), "New Era" Metal Finishes, New Haven, Conn.
 Nikolas, G. J. & Co. ("Nikolas"), 400 W Van Buren, Chicago, Ill.
 Schlegel, Oscar Mfg. Co., 111 E 12th, New York
 Standard Varnish Works, 29 B'way, New York
 Storckel, R. E., 2449 3d av., New York
 Toch Paint Supply Co. (French Lacquers & Mixtures), 320 5th av., New York
 Zucker, Levitt & Loeb Co., 516 W 25th, New York

Lacquering for the Trade

Barlow Mfg. Co., Holyoke, Mass.
 Buckeye Electro Plating Co., Mansfield, O.
 Grosback, Wm. & Co., 37 Maspeth av., Brooklyn, N. Y.
 W. & S. Mfg. Co., Worcester, Mass.

Lacquers (Anti Rust)

Vacuum Varnish & Chemical Co. (Acid-Proof Steel), East Norwalk, Conn.

Lacquers (Canners')

Mairs, John G., Sons, Baltimore, Md.

***Lacquers (Machine)**

U. S. GUTTA PERCHA PAINT CO.
("Rice's" or Egg Shell Gloss Enamel).
12-30 Dudley, Providence, R. I. (See adv.
index, end of book)

***Ladder Brackets (Steel)**

TAYLOR, JAS. L. MFG. CO. (For
Painters & Builders), Bloomfield, N. J.
(See adv. Index, end of book)

***Ladder Elevators (Steel)**

TAYLOR, JAS. L. MFG. CO. (For
Painters & Builders), Bloomfield, N. J.
(See adv. Index, end of book)

***Ladder Elevators (Steel, Gloss Enamel)**

TAYLOR, JAS. L. MFG. CO. (For
Painters & Builders), Bloomfield, N. J.
(See adv. Index, end of book)

***Ladder Extensions with Platforms**

TAYLOR, JAS. L. MFG. CO. (For
Painters & Builders), Bloomfield, N. J.
(See adv. index, end of book)

Ladder Rounds (Miners')

Sandusky Tool Co., Sandusky, O.

Ladders

American Mfg. & Novelty Co. (Of All Kinds).
Erie, Pa.

Bacon & Co. (Inc.) ("Neagora" extension, fruit,
etc.), Appleton, N. Y.

Balm, J. A., Canton, O.
Bangor Extension Ladder Co., 27 Bangor,
Bangor, Me.

Berg, Jno. & Bro. (Extension), Westworth, 50th
& 5th av, Chicago, Ill.

Berger Bros. Co. ("Perfection" Extension),
237 Arch, Phila., Pa.

Brand, Geo., Jr., 672 4th, Oakland, Cal.

Brown, Jno. K. & Co., 181 3d av, Brooklyn,
N. Y.

Burroughs, W. E. (All Kinds for All Purposes),
8 7th av, Brooklyn, N. Y.

Bushnell Tank Works, Bushnell, Ill.
Canton Ladder Co. (Extension), Canton, O.

Chandler & Art Brass Works (Step, Galvan-
ized Sheet Metal), Richmond, Ind.

Chesebro, Whitman & Co., 1167 1st av, New
York

Combination Ladder Co., 366 Fountain, Provi-
dence, R. I.

Corbett & Co., 429 E 109th, New York

Dillman, I. M. Mfg. Co., 524 Tel av, Oakland
Cal

Drake, M. J., 11 Jeff'n, Brooklyn, N. Y.

Earl, F. H. Mfg. Co. (Step & Extension)
Elm, Ill.

Excelsior Ladder Co., Elmira, N. Y.

Fox, Geo. S. (Step, Extension, Painters, etc.),
137 N 6th, Phila., Pa.

Frizzell Ladder Co. ("Dorchester" Extension &
"Fairy," "Giant," "Climax" Step, etc.),
135 Granite av, Boston, Mass.

Goshen Mfg. Co., Goshen, Ind.

Hercules Specialty Co. (Sectional Extension,
Step, etc.), Erie, Pa.

Holmquist & Co., 127 N Morgan, Chicago, Ill.

Indiana Bent Rung Ladder Co. (Step, Exten-
sion, Sectional, etc.), Indiana, Pa.

Indiana Bent Rung Ladder Co. (Single, Exten-
sion, Step, etc.), Indiana, Pa.

Indiana Ladder Co., Indiana, Pa.

Jewett, Oscar (Step), Forestville, N. Y.

McCABE HANGER MFG. CO. (Mc-
Cabe Tubular Store), 425 W 25th, New York
(See adv. Index, end of book)

Miller, Edward, ft of E 109th, New York

Miller Ladder Co. (Step, Painters', Extension
Fruit Pickers', Paper Hangers', etc.), N
56th av, Chicago, Ill.

Moulton, C. W. & Co. (Extension, Folding, Self
Supporting, Section, Window Cleaning Step
Long Pole, etc.), Somerville, Mass.

Moulton, Henry, York Corner, Me.
Newton & Haggerty Ladder Co., Detroit, Mich.
N. Y. Ladder Co., 580 Hudson, New York
Noyes, W. H., 154 1st, Newark, N. J.
Phila. Ladder Mfg. Co., 9th & Thompson
Phila., Pa.

Pierce, W. E. & Co., Milton, N. H.

Portland Extension Ladder Co. ("Firing Yal-
kee" Extension, for Railroads, Electric &
Telegraph Companies), 130 Orange, Newark
N. J.

Reissler, Andrew, 248 W Houston, New York

Roberts, E. L. & Co. (Step, Extension, etc.),
W 22d & Union pl, Chicago, Ill.

Saginaw Ladder Co. (Ltd.) (Combined Step &
Extension), Saginaw, Mich.

Specialty Mfg. Co., Titusville, Pa.

Tilly, John S., 114 2d, Watervliet, N. Y.

Tupper, Jno. (All kinds), Lynn, Mass.

Udell Works (Step & Extension), Indianapolis,
Ind.

Union Blind & Ladder Co. (Step, Orchard & Ex-
tension), 328 Howard, San Francisco, Cal.

Wenona Mfg. Co., Bay City, Mich.

Whitehurst, R. W. Co., Norfolk, Va.

Ladders (Extension Scaffold)

Burroughs, W. E. 8 7th av, Brooklyn, N. Y.

Hercules Specialty Co., Erie, Pa.

Portland Extension Ladder Co., 130 Orange,
Newark, N. J.

Ladders (Folding Roof)

Danzer Metal Works, Hagerstown, Md.

***Ladders ("McCabe" Tubular Store)**

McCABE HANGER MFG. CO., 425 W
25th, New York. (See adv. index, end of
book)

Ladders (Rolling & Trolley)

Allith Mfg. Co. ("Reliable"), W Taylor & S
43d av, Chicago, Ill.

Bicycle Step Ladder Co., 65 Randolph, Chi-
cago, Ill.

Calander, Jno., 148 8th, St. Paul, Minn.

Coburn Trolley Track Mfg. Co., Holyoke,
Mass.

Lane Bros. Co., Poughkeepsie, N. Y.

McCABE HANGER MFG. CO. (Tubu-
lar, etc.), 425 W 25th, New York. (See
adv. Index, end of book)

Milbradt Mfg. Co., 1436 N 8th, St. Louis,
Mo.

Morley Bros. (Inc.) (Rolling), Saginaw, Mich.

Myers, F. E., & Bro., Ashland, O.

NEWHALL, HENRY B., 90 West, New
York

Portland Extension Ladder Co. (Trolley), 130
Orange, Newark, N. J.

Putnam & Co. ("Putnam"), 244 Water, New
York

Richards Mfg. Co., Aurora, Ill.

Warren, J. D. Mfg. Co., Masonic Temple, Chi-
cago, Ill.

Wilcox Mfg. Co. (Ceiling & Shelf Rolling), Au-
rora, Ill.

Ladders (Steel)

Barnum, E. T., Wire & Iron Works, 82 Wash-
ington av, Detroit, Mich.

Cornell, J. B. & J. M. Co., 26th & 11th av,
New York

MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)

Mountain State Electrical Co. (Also Flexible
Steel), Wheeling, W. Va.

Ladders (Store Sliding)

(See Ladders, Rolling & Trolley)

Ladders & Trucks (Firemen's)

Portland Extension Ladder Co. (Safety Trussed),
130 Orange, Newark, N. J.

***Ladle Heaters**

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

Ladle Sleeves & Nozzles

Swank's, H. Sons (Fire Brick), Johnstown, Pa.

Ladles (Bessemer Plant)

(See Ladles, Open Hearth & Bessemer Plant)

Ladles (Cinder Car)

(See Ladles, Slag; also Cars, Hot Metal &
Slag)

Ladles (Crane or Truck)

Calumet Engineering Works, Harvey, Ill.
Cleveland Car Co., West Park, O.

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)

WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
COMPANY.

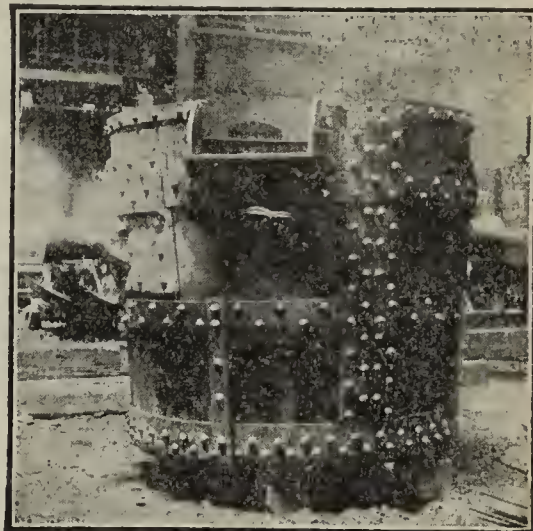
475 Fulton bldg, New York. (See adv. In-
dex & branch offices, end of book)

Ladles (Foundry)

Byram & Co. (Inc.) (15 to 35,000 Pounds), 435
Guoin, Detroit, Mich.

Calumet Engineering Works ("Calumet"),
Harvey, Ill.

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of
book)

**LADLES**

ANNEALING BOXES
GALVANIZING KETTLES
FURNACE CASINGS
STACKS
FLUES

GENERAL PLATE CONSTRUCTION
WRITE DEPT. H

**THE CANTON BOILER AND
ENGINEERING COMPANY**

Canton, Ohio, U. S. A.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

Carroll-Porter Boiler & Tank Co., Pittsburg, Pa.

Columblana Boiler Co., Columblana, O.

Connelly, D. Boiler Co. (Or Hot Metal), Cleve-
land, O.

CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)

Etting, E. J., 1105 Land Title bldg, Phila., Pa.

Hay's, Samuel W., Sons, Pittsburg, Pa.

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

McCormack, J. S. Co., Pittsburg, Pa.

MACKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)

Meehan Boiler & Construction Co., Lowell,
ville, O.

NORTHERN ENGINEERING WORKS,
9 Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)

Ogden, J. Edward Co., 147 Cedar, New York
OSBORN MFG. CO., 5401 Hamilton
 av, N. E., Cleveland, O. (See adv. index,
 end of book)

PETROLEUM IRON WORKS CO.,
 Sharon, Pa., & Farmers' Bank bldg, Pitts-
 burg, Pa. (See adv. index, end of book)

REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)

Riter-Conley Mfg. Co., Pittsburg, Pa.
 Scamell Boiler Works, Lowell, Mass.

SMITH, J. D. FOUNDRY SUPPLY CO.,
 1846 Scranton rd, N W, Cleveland, O. (See
 adv. index, end of book)

Stewart Boiler Works, Worcester, Mass.
 Union Boiler & Mfg. Co., Lebanon, Pa.
 Union Foundry & Machine Co. (South Side),
 Pittsburg, Pa.

Warren City Tank & Boiler Co., Warren, O.
WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch
 offices, end of book)

*Ladles (Galvanizing)

WILFONG BROS., 52d & Grays av.
 Philadelphia, Pa. (See adv. index, end of
 book)

Ladles (Melting & Plumbers')

BERNZ, OTTO, S 13th & S Orange av.
 Newark, N. J. (See adv. index, end of book)

Clark, W. J., Co., Salem, O.
 Clayton & Lambert Mfg. Co., Detroit, Mich.
 Dicke Tool Co., Downers' Grove, Ill.
 Hardware & Woodenware Mfg. Co., 693 B'way,
 New York

Hiles, C. A., & Co., 14th & Western av, Chi-
 cago, Ill.
 Holland Mfg. Co., Erie, Pa.

Holland, Wm., 60 S Canal, Chicago, Ill.
 Johnson, Wm. (Hedenberg Works), (Plumbers')
 Newark, N. J.

Knapp Mfg. Co., 22 Frankfort, New York
 Lalance & Grosjean Mfg. Co. (Wrought Steel),
 299 B'way, New York

Loetzer Valve & Mfg. Co. (Seamless Plate
 Steel), Monrocton, Pa.

Peck, Stow & Wilcox Co., Southington, Conn.
 Racine Malleable Wrought Iron Co., Racine,
 Wis.

Reading Hardware Co., Reading, Pa.
 Stortz, John, & Son, 210 Vine, Phila., Pa.
 Union Heater Supply Co., Detroit, Mich.

Ladles (Mining)

Union Iron Works' Co. (Matte Ladles), San
 Francisco, Cal

Power & Mining Machinery Co. (Heavy Steel
 Plate), Cudahy, Wis

Ladles (Open Hearth & Besse- mer Plant)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)

Carrol Porter Boiler & Tank Co., Empire bldg.
 Pittsburg, Pa. Works, Wellsville, O.

Columbiana Boiler Co., Columbiana, O.
 Connelly, D. Boiler Co., Cleveland, O.

CONNERY & CO., 9th & Master.
 Phila., Pa. (See adv. index, end of book)

Munroe, R. & Sons Corporation, 23d & Small-
 man, Pittsburg, Pa.

Penna. Engineering Works, New Castle, Pa.

PETROLEUM IRON WORKS CO.,
 Sharon, Pa., & Farmers' Bank bldg, Pitts-
 burg, Pa. (See adv. index, end of book)

Pollock, Wm. B. Co., Youngstown, O.
 Stamp, C. E., & Co., Cleveland, O.

WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch
 offices, end of book)

Ladles (Slag)

(See also Ladles, Foundry; also Cars, Hot
 Metal & Slag)

Union Boiler & Mfg. Co., Lebanon, Pa.
 Wellman-Seaver-Morgan Co. ("Dewhurst"),
 Cleveland, O.

Lagging (Hardwood)

Dodge Mfg. Co., Mishawaka, Wis.

"La-Lo" Spray, Liquid Cleaner

Boston La-Lo Spray Co. (Dustlayer, Disinfect-
 ant, Deodorizer, etc.), Boston, Mass.

Lamp Black Mfrs.

Bihn & Wolff Co., Bridesburg, Phila., Pa.
 Binney & Smith Co., 81 Fulton, New York

CABOT, SAMUEL, 141 Milk, Boston,
 Mass. (See adv. index & branch offices, end
 of book)

Davidson, Jas. H. (Inc.) 239 Front, New York
DOGGETT, STANLEY, 101 Beekman, New
 York. (See adv. index, end of book)

Eddy's, Titus Son, Troy, N. Y.
 Lyons, Jas., Evergreen (Borough of Queens),
 N. Y.

Martin, L. Co., 81 Fulton, New York
 Seaver & Co., 120 Milk, Boston, Mass.

Wilkes, Martin, Wilkes Co. ("Bear Brand"),
 135 William, New York

Lamp Cords

(See Cords, Flexible)

Lamp Posts

(See Posts, Lamp)

Lamp Posts (Pressed Steel)

Union Metal Mfg. Co., Canton, O.

*Lamp Replacers & Cleaners (Incandescent)

MORSE, FRANK W., 516 Atlantic
 av, Boston, Mass. (See adv. index, end of
 book)

Lamp Sockets (Incandescent)

Brunt, G. F. Porcelain Works (Regulating),
 East Liverpool, O.

Burdett-Rowntree Mfg. Co. (Ball Socket), 85
 W Jackson boul, Chicago, Ill.

Crouse-Hinds Electric Co. ("Norbett" Water-
 proof), Syracuse, N. Y.

Electrical Supply Co. ("Hawkeye"), Sioux City,
 Iowa

Gilmore Electric Co., South Boston, Mass.
 Hubbell, Harvey (Pendant Chain Pull), Bridge-
 port, Conn.

Illinois Electric Co. ("Hubbell"), 239 Madison,
 Chicago, Ill.

Johns, H. W.-Manville Co., 100 William, New
 York

Marshall-Sanders Co., 301 Congress, Boston,
 Mass.

New England Electric Mfg. Co., West Somer-
 ville, Mass.

Paiste, H. T. Co., 3101 Ludlow, Phila., Pa.

Perkins Electric Switch Mfg. Co., Bridgeport,
 Conn.

Pringle, W. T. ("Ries" Regulating), 112 N
 12th, Phila., Pa.

Yost Electric Mfg. Co., Toledo, O.

Lamps (Acetylene Gas)

Davis Acetylene Fixture & Supply Co. (Arc),
 Elkhart, Ind.

Klemm & Co. ("Klemm" Arc), 132 N 5th,
 Phila., Pa.

Miner, Thos. T. W. ("Miner" Globe), 821
 Eagle av, New York

Lamps (Alcohol)

Gem Mfg. Co. ("Gem" Brass & Steel), Pitts-
 burg, Pa.

Lamps (Arc)

Adams-Bagnall Electric Co. ("A-B," En-
 closed), Cleveland, O.

Alexander, F. Elec. Mfg. Co. (Miniature), 75
 Fulton, New York

American Arc Lamp Co. ("Northall," "Lea,"
 Enclosed), Kalamazoo, Mich.

Anderson, Albert & J. M. Mfg. Co. ("Monarc,"
 Alternating & Direct Enclosed Incan.),
 287a, S Boston, Boston, Mass.

Aurora Electric Co. (Miniature), Aurora, Ind.

Economy Electric Co., Brooklyn, N. Y.

F. & M. Illuminating Co. ("Astral"), 235
 B'way, New York

Fort Wayne Electric Works (Inc.) (Alt. & Di-
 rect), Fort Wayne, Ind.

GENERAL ELECTRIC CO. ("Multiple
 A. C. & D. C.," "T. H.," "M. & K.,"
 "Brush"), Schenectady, N. Y., & 30 Church,
 New York. (See adv. index & branch of-
 fices, end of book)

H. & M. Electric Co. ("Jewell," Miniature),
 1153 Myrtle av, Brooklyn, N. Y.

Helios Mfg. Co. ("Continental"), Bridesburg,
 Phila., Pa.

Ideal Electric & Mfg. Co. ("Ideal," Enclosed
 for Direct & Alternating Current), Mans-
 field, O.

Imperial Electric Mfg. Co., 4 Murray, New
 York

Jandus Electric Co. ("Boulevard"), Cleveland,
 Ohio

Keystone Electric & Mfg. Co. ("Climax"),
 North Side, Pittsburg, Pa.

Kraushaar Bronze Mfg. Co. ("Anderson-
 Smith"), St. Louis, Mo.

Marquette Elec. Mfg. Co., 215 S Clinton, Chi-
 cago, Ill.

Mutual Electric & Machine Co. ("Mutual," En-
 closed Type, Direct Current), Wheeling,
 W. Va.

Westinghouse Lamps

Carbon Arc Lamps, Metallic-Flame Arc Lamps,
 Incandescent Lamps, Tungsten Lamps
 For all commercial circuits and voltages

Westinghouse Electric & Mfg. Co., - Pittsburg, Pa.

Offices in All Large Cities.

Oppermann Electric Works ("Columbia"), Manitowoc, Wis.
 Philadelphia Electrical & Mfg. Co. (Open & Enclosed), 1234 N 31st, Phila., Pa.
 Sheffield Electric Co., 115 B'way, Brooklyn, N. Y.
 Stave Electrical Co. ("Stavelco," "Perkeo," Semi-Enclosed & Miniature), 27 W 27th, New York
 Toerring, C. J. Co. ("Toerring," Enclosed), 2121 Toronto, Philadelphia, Pa.
 United States Arc Lamp Co. (Miniature), 259 6th av, New York
 Volkmer Electric Co., 587 Hudson, New York
 Warner Arc Lamp Co. ("Warner," Enclosed, Direct Current), Muncie, Ind.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. Co. (Alt. & Direct Enclosed), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lamps (Arc, Acetylene)

(See Lamps, Acetylene Gas, with the Word Arc following their names)

Lamps (Arc, Flaming)

American Flaming Arc Lamp Co., Boston, Mass.
 Beck Flaming Lamp Co. ("Beck"), 30 Greenwich, New York
 Excellor Arc Lamp Co. ("Sunray," "Snowball," Imported), 30 E 20th, New York
GENERAL ELECTRIC CO. ("G. I."), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 German-American Elec. Co. ("Grant"), 110 W 14th, New York
 Grant Flaming Lamp Co. ("Grant"), Old Colony bldg, Chicago, Ill.
 Hagstedt, Chas. ("Flamor"), 77 E 52d, New York
 Hamburger, Felix Co. ("Jupiter," "Carbone," "Bivolta," Imported), 111 E 12th, New York
 Helios Mfg. Co., Bridesburg, Phila., Pa.
 Marquette Electric Mfg. Co., 215 S Clinton, Chicago, Ill.
 Olenin Electric Co., Binghamton, N. Y.
 Royal Lamp Co., 126 6th av, New York
 Scott Electrical Co. ("Decuple"), Newark, N. J.
 Stave Electrical Co. ("Stave"), 27 W 27th, New York
 Toerring, C. J. Co., 2119 Toronto, Phila., Pa.
 Warner Arc Lamp Co., Muncie, Ind.
 Western Electric Co. ("Victor"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lamps (Arc, Gas)

(See also Lamps, Incandescent Gas)

Acorn Brass Works ("Lumo"), 203 Fulton, Chicago, Ill.
 American Gas Machine Co. ("American" inverted), Albert Lea, Minn.
 Atco Metal Mfg. Co., Atco, N. J.
 Cluster Gas Light Co., 67 Bowery, New York
 Crane, Wm. M. Co. ("Eagle"), 16 W 32nd, New York
 General Gas Light Co. ("Humphrey"), Kalamazoo, Mich.
 Gleason, E. P. Mfg. Co. ("Grey" & "Gleason's" Incandescent Reflecting), 37 Murray, New York
 Hamilton Lighting Co., Pittsburg, Pa.
 Incandescent Burner Co., 665 Fulton, Brooklyn, N. Y.
 Irby & Gilliland Co. ("Edcent," "Senior"), Memphis, Tenn.
 Kern Burner Co., 88 Warren, New York
 Klemm & Co., 132 N 5th, Philadelphia, Pa.
 Knapp Mfg. Co. ("Mercer"), 20 Warren, New York
 Liberty Gas Light Co. ("Victor"), 1334 N High, Columbus, O.
 National Stamping Works, La Salle & Michigan, Chicago, Ill.
 Northern Light Co. (Incandescent), 451 Greenwich, New York
 Phelps Co., 33 State, Detroit, Mich.
 Rector Gas Lamp Co., 47 Leonard, New York
 Sanitary Specialty Mfg. Co. ("Doorenbos"), 55 N Clinton, Chicago, Ill.
 Turner Brass Works, Franklin & Michigan, Chicago, Ill.
 White Mfg. Co., 192 Michigan, Chicago, Ill.

Lamps (Arc, Gasoline)

(See also Lamps, Gasoline; also Lamps, Incandescent Gasoline)

Acorn Brass Works ("Doran"), 203 Fulton, Chicago, Ill.
 Best Light Co., Canton, O.
 Martin & Morehead, 51 W Washington, Chicago, Ill.
 National Light, Heat & Power Co. ("Let There Be Light"), 302 W Lake, Chicago, Ill.
 National Stamping & Electric Works, Chicago
 Turner Brass Works, Sycamore, Ill.
 White Mfg. Co. ("American" & "White Star" Pressure), 192 Michigan, Chicago, Ill.

*Lamps (Arc, Machine Shop)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Lamps (Arc, Miniature)

Stave Electrical Co. ("Stavelco," "Perke" Semi-Enclosed & Miniature), 1 Madison av, New York

Lamps (Arc, Photo-Engraving)

Adams-Bagnall Electric Co., Cleveland, O.
 Ariston Electric Co., 135 William, New York
 Bogue, Chas. J., Electric Co., 513 W 29th, New York

COOPER-HEWITT ELECTRIC CO.

("Vapor"), 220 W 29th, New York
 Fox Arthur W., 83 Schermerhorn, Brooklyn, N. Y.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York.

(See adv. index & branch offices, end of book)
 Hellos Mfg. Co., Bridesburg, Philadelphia, Pa.
 Menchen, Jos. Electrical Co., 360 W 50th, New York

Thompson, Albert T. & Co., Boston, Mass.
 Toerring, C. J. Co., 2119 Toronto, Phila., Pa.
 Western Electric Co. ("Aristo"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa.

(See adv. index & branch offices, end of book)

Lamps (Arc, Stage & Stereopticon)

Globe Electric Co., 419 W 42d, New York
 Menchen, Jos. Electrical Co., 360 W 50th, New York

Pennefather, J. S., 105 W 39th, New York
 Superior Electric Co., 520 W 40th, New York
 Universal Elec. Stage Lighting Co. ("Klicgel"), 1393 B'way, New York

Lamps (Automobile, Gas & Oil)

(See also Lamps, Carriage)

American Acetylene Stove Co. (Gas), Masonic Temple, Minneapolis, Minn.
 American Auto Brass Co., Columbus, O.
 American Lamp Works, 253 W 47th, New York

Angiulli, Luigi (Gas), 182 Centre, New York
 Atwood-Castle Co. ("Mile Ahead" Gas & "Stay Lit" Oil), Amesbury, Mass.
 Automobile Supply Mfg. Co. ("Jap," "Faro"), 139 Emerson pl, Brooklyn, N. Y.

Badger Brass Mfg. Co. ("Solar" Headlights), Kenosha, Wis.
 Colt, J. B. Co. (Gas), 21 Barclay, New York
 Corcoran Lamp Co., Cincinnati, O.
 Cowles, C. & Co. (Oil), Water c Chestnut, New Haven, Conn.

Dayton Mfg. Co. ("Avery," Gas), 2240 E 3d, Dayton, O.
 Dietz, R. E. Co., 60 Lalght, New York
 Edmunds & Jones, 315 Rloppelle, Detroit, Mich.
 Gray & Davis ("Bullet"), Amesbury, Mass.
 Ham, C. T. Mfg. Co. (Oil), 731 Oak, Rochester, N. Y.

Hine-Watt Co. ("Columbia," Gas), 60 Wabash av, Chicago, Ill.
 Manhattan Lamp Works ("Saxon," Gas), 46 W 67th, New York
 Moore, M. E. & Son (Gas), Westfield, Mass.
 New York Coach & Auto Lamp Co., 302 W 53d, New York

Post & Lester ("Royal de Luxe"), Hartford, Conn.
 Rose Mfg. Co. ("Neverout"), 910 Arch, Philadelphia, Pa.
 Rushmore Dynamo Works (Gas), Plainfield, N. J.
 Scoville & Peck Co. ("Peck," Oil), 15 Wooster, New Haven, Conn.

Sibley & Pitman ("Climax"), 26 Warren, New York
 Smith & Mabley ("Billy," "French"), 1765 B'way, New York

Stevens & Sackett Co. (Oil), 70 Crown, New Haven, Conn.
 Standard Carriage Lamp Co. (Gas), 43 S Canal, Chicago, Ill.

Twentieth Century Mfg. Co. ("La Belle," Gas, & "Grand," & "Mammoth," Oil), 19 Warren, New York

White Mfg. Co., Bridgeport, Conn.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Lamps (Battery)

Ohio Electric Works, Cleveland, O.
MORSE, FRANK W. ("Morse" Trouble, for Automobile & Power Boats), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

Lamps (Bicycle)

Bridgeport Brass Co., Bridgeport, Conn.
 Blue-Watt Mfg. Co., 60 Wabash av, Chicago, Ill.

Plume & Atwood Mfg. Co., Waterbury, Conn.
 Rose Mfg. Co., 910 Arch, Phila., Pa.
 Scovill Mfg. Co., Waterbury, Conn.
 Twentieth Century Mfg. Co., 17 Warren, New York

Lamps (Bronze, Artistic Wrought)

(See also Gas Fixtures, Wrought Iron)

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)

Brown Bros. Mfg. Co., 22d & Campbell av, Chicago, Ill.

CHICAGO ORNAMENTAL IRON CO., 37th & Stewart av, Chicago, Ill. (See adv. index, end of book)

FLOUR CITY ORNAMENTAL IRON Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index, end of book)

GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)

JACKSON, WM. H. & CO., 29 E. 17th (Union Sq.), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

Jannsch Mfg. Co., 496 E 134th, New York
 Henry-Bonnard Bronze Co., Mount Vernon, N. Y.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)

Tiffany Studios, 347 Madison av, New York

TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Union Equipment & Bronze Co., 1901 Park av, New York

Lamps (Bronze, Electric)

Duffner & Kimberly Co., W 32d, New York

*Lamps (Candle)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Lamps (Car)

Adams & Westlake Co. (All Kinds), Ontario & N Franklin, Chicago, Ill.
 Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York

Dayton Mfg. Co. (For Steam & Electric Cars), Dayton, O.

Howard, Jas. L. & Co., Hartford, Conn.
 Klemm & Co. (Oil), 132 N 5th, Phila., Pa.
 Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y.

Safety Car Heating & Lighting Co., 2 Rector, New York

Smith, Chas. G., 352 Pearl, New York
 Star Headlight Co. (Oil), Rochester, N. Y.

*Lamps (Carbon Filaments)

WESTINGHOUSE LAMP CO., Bloomfield, N. J.

Lamps (Carriage)

(See also Lamps, Automobile, Gas & Oil)
 American Auto Brass Co., Columbus, O.
 Atwood-Castle Co., Amesbury, Mass.
 Brown, Jno. W., Mfg. Co., Columbus, O.
 Carey & Co., 243 Race, Phila., Pa.
 Corcoran Lamp Co., Cincinnati, O.
 Cowles, C., & Co. (Inc.), New Haven, Conn.
 English & Mersick Lamp & Foundry, New Haven, Conn.

Gray & Davis, Amesbury, Mass.
 Ham, C. T., Mfg. Co., Rochester, N. Y.
 Lockwood Co., Newark, N. J.
 Richmond, Indiana, Mfg. Co., Richmond, Ind.
 Rose Mfg. Co. ("Neverout"), 910 Arch, Phila., Pa.
 Smith, Chas. G., 352 Pearl, New York
 White Mfg. Co., Bridgeport, Conn.

Lamps (Contractors' Portable)

(See Contractors' Portable Light)

***Lamps (Derrick)**

OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)

Lamps (Desk, Electric)

(See Lights, Desk Electric)

Lamps (Electric, Christmas Tree)

(See Lamps, Battery)

Lamps (Electric Inspection)

Match-less Light Co. (For Automobiles), Canton bldg, Cleveland, O.

Lamps (Gasoline)

(See also Lamps, Arc Gasoline)

American Gas Machine Co., Albert Lea, Minn.
 Best Light Co., Canton, O.
 Boulevard Globe & Lamp Co., 88 Warren, New York
 Brilliant Gas Lamp Co. ("Brilliant Halo"), 203 State, Chicago, Ill.
 Ford Light Co., Salem, O.
 Gloria Light Co., 11 N. Curtis, Chicago, Ill.
 Knight Light Co., 90 Illinois, Chicago, Ill.
 Merkel, Herman, 511 Elm, St. Louis, Mo.
 National Stamping & Electric Works, 153-159 S. Jefferson, Chicago, Ill.
 Peerless Kitchen Boiler & Supply Co. (Inc.), ("Peerless"), 40 Dearborn, Chicago, Ill.
 Pltner Gasoline Lighting Co., 185 Lake, Chicago, Ill.
 Royal Gas Light Co. ("Royal Gem"), 210 E. Kinzie, Chicago, Ill.
 Smith, Chas. G., 352 Pearl, New York
 Standard-Gillett Light Co. ("Standard"), 930 N. Halsted, Chicago, Ill.
 Sun Vapor Street Light Co. (Incandescent), Canton, O.
 Superior Mfg. Co. (Also Vapor), Ann Arbor, Mich.
 Turner Brass Works (Vapor), Sycamore, Ill.

Lamps (Gauge)

(See Lamps, Locomotive Gauge)

Lamps (Gravity)

Ireland & Matthews Mfg. Co. (Gasoline), Detroit, Mich.
 White Mfg. Co. ("Reliable" & "White Star"), 192 Michigan, Chicago

Lamps (Hand, Engineers' & Machinists')

Gray, Peter & Sons, 88 Union, Boston, Mass.
 Knapp Mfg. Co., 20 Warren, New York
 Hammer & Co. (Malleable Iron), Branford Conn.
 Tower & Lyon Co. (Malleable Iron), 95 Chambers, New York
WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of book)

Lamps (Hanging)

Bradley & Hubbard Mfg. Co., Meriden, Conn.
 Bristol Brass Co., Bristol, Conn.
 Dressel Railway Lamp Works (For Office, Station, etc.), 3860 Park av, New York
 Hammer & Co. ("Hammers" Malleable Iron), Branford, Conn.
 Tiffany Studios (Special Designs), 347 Madison, New York
 Waterbury Brass Goods Corp'n, Waterbury, Conn.

Lamps (Hydro Carbon)

(See Lamps, Incandescent, Hydro-Carbon)

Lamps (Incandescent Electric)

American Elec. Lamp Co., 29 W 15th, New York
 Anchor Lamp Co., 258 B'way, New York
 Banner Electric Co., Youngstown, O.
 Bay State Lamp Co., Danvers, Mass.
 Boston Incandescent Lamp Co., Danvers, Mass.
 Brilliant Electric Co., Cleveland, O.
 Bryan-Marsh Co. ("Imperial"), 1 Madison av, New York
 Buckeye Electric Co., Cleveland, O.
 Capitol Electric Co. ("Hall"), Denver, Col.
 Colonial Electric Co. ("Colonial"), Warren, O.
 Columbia Incandescent Lamp Co., St. Louis, Mo.
 Consolidated Electric Lamp Co. ("Champion"), Danvers, Mass.
 Doubleday-Hill Electric Co., Pittsburg, Pa.
 Downward Light Electric Co., 225 5th av, New York
 Economical Electric Lamp Co., 25 W B'way, New York
 Edlson Lamp Dep't ("Edlson," "Lowatt"), Harrison, N. J.
 Efandem Co. ("Sirlus Colloid"), 201 E 16th, New York
 Fort Wayne Electric Works, Fort Wayne, Ind.
 Fostoria Incandescent Lamp Co. ("Duplex"), Fostoria, O.
 Franklin Electric Mfg. Co. ("Ferno," "Novl"), Hartford, Conn.
GENERAL ELECTRIC CO. ("Edlson," "Lowatt"), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

General Incandescent Lamp Co., Cleveland, O.
 Gilmore Electric Co. ("Twilight"), Boston, Mass.
 Holscher Elec. Mfg. Co. ("Model"), Warren, Ohio
 In-Er Globe Lamp Co. (Reflector), Boston, Mass.
 Kentucky Electrical Co. (Inc.) ("The Kentucky"), Owensboro, Ky.
 Liberty Electric Mfg. Co., Pittsburg, Pa.
 Moline Incandescent Lamp Co. ("Moline"), Moline, Ill.
 Monarch Electric Mfg. Co., Warren, O.
 Muuder Electric Co. ("M-E-W"), Springfield, Mass.
 National Electric Lamp Co., Cleveland, O.
 New York & Ohio Co. ("Packard," "Packard Mogul"), Warren, O.
 Novelty Incandescent Lamp Co. ("Elk"), Euclid, Pa.
 O'Brien Elec. Light Co., 1701 Market, Phila., Pa.
 Rooney Electric Lamp Co. ("Sun-Star," "Regulating"), 155 E 23d, New York
 Rooney, F. J. Lamp Co., World bldg, New York
 Shelby Electric Co., Shelby, O.
 Sterling Electrical Mfg. Co., Warren, O.
 Sunbeam Incandescent Lamp Co., 259 S Clinton, Chicago, Ill.
 Warren Electric & Specialty Co. ("The Peerless"), Warren, Ohio
 Western Electric Co. ("Sunbeam"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
WESTINGHOUSE LAMP CO. ("Lumino"), Bloomfield, N. J.

Lamps (Incandescent Electric, Car)

Banner Electric Co., Youngstown, O.
 Bryan-Marsh Co., 1 Madison av, New York
 Franklin Electric Mfg. Co. (The Ferno), Hartford, Conn.
 Sterling Electrical Mfg. Co., Warren, O.

Lamps (Incandescent Gas)

(See also Lamps, Arc Gas)

American Incandescent Lamp Co., 26 Cortlandt, New York, & Girard Trust bldg, Phila., Pa.
 Automatic Incandescent Light Co., Northboro, Mass., & Phila. Bourse, Phila., Pa.
 Best Light Co., Canton, Ohio
 Columbia Incandescent Lamp Co., Real Estate Trust bldg, Phila., Pa.
 Cosmopolitan Co. ("Cosmo"), Kansas City, Kans.
 Economical Electric Lamp Co. ("Turndown"), 25 W B'way, New York
 Hamilton Mfg. Co., 3 Union, Pittsburg, Pa.
 Kentucky Electrical Co., Inc., Owensboro, Ky.
 Keras Incandescent Co., 81 Washburn, Boston, Mass.
 Kern Burner Co., 88 Warren, New York
 Watson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
 Leoben Mfg. Co., Philadelphia Bourse, Philadelphia, Pa.
 Liberty Gas Light Co., 1334 N High, Columbus, O.
 Peerless Light Co. ("Peerless" Inverted & Upright), Chicago, Ill.

GENERAL ELECTRIC COMPANY

EDISON INCANDESCENT LAMPS

Are the best incandescent lamps made. The fact that over 60,000,000 are sold every year proves it.

GEM, TUNGSTEN AND TANTALUM FILAMENT LAMPS

Afford a most attractive form of illumination and are suitable for all classes of interior lighting service. These lamps are simple and safe, low in cost and high in efficiency, flexible and adaptable, and their uniform light is both brilliant and soft.

MAIN LAMP SALES OFFICE: HARRISON, N. J.

Sales offices in all large cities.

1909

For Great Britain and Ireland: THE BRITISH THOMSON-HOUSTON CO., Ltd., Rugby and 83 Cannon St., London, E. C.

Ramsdell Inverted Gas Lamp Co. ("Ramsdell" Inverted), 530 B'way, New York
 Turner Brass Works, Franklin & Michigan, Chicago, Ill.
 Weilerhold Light Co., 70 Cortlandt, New York
 Welsbach Co., 922 Chestnut, Phila., Pa.
 Welsbach Gas Lamp Co., 78 Bowery, New York

Lamps (Incandescent Gasoline)

(See also Lamps, Arc Gasoline)

Akron Gas Lamp Co., Akron, O.
 Best Light Co., Canton, O.
 Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
 National Light, Heat & Power Co., 302 W Lake, Chicago, Ill.
 Peerless Kitchen Boiler & Supply Co. (Inc.), ("Peerless"), 40 Dearborn, Chicago, Ill.
 Pitner Gasoline Lamp Co., 185 Lake, Chicago, Ill.
 Royal Gas Light Co. ("Royal Gem"), 210 E Kinzie, Chicago, Ill.
 Sun Vapor Street Light Co., Canton, O.
 Turner Brass Works, Sycamore, Ill.

Lamps (Incandescent, Hydro Carbon)

Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
 Superior Mfg. Co., Ann Arbor, Mich.
 Williams Incandescent Light Co. (Williams operated with Kerosene Oil), 3421 Haverford av., Phila., Pa.

Lamps (Incandescent, Kerosene)

Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
 Ober, Thos. K. & Co. ("Keros"), Draxel bldg., Phila., Pa.

Lamps (Incandescent Miniature)

American Endoscopic Co., Providence, R. I.
 Boehm, H. & Co., Youngstown, O.
 Brilliant Electric Co., Cleveland, O.
 Brooklyn Electric Lamp & Novelty Co., 278 Fulton, Brooklyn, N. Y.
 Bryan-Marsh Co., 1 Madison av., New York
 Elbight Co. of America (Special Decorative), 36 E 23d, New York
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Gilmore Electric Co., Boston, Mass.
 Green & Bauer, Hartford, Conn.
 Howard Miniature Lamp Co., Newark, N. J.
 Jaeger Miniature Lamp Mfg. Co. ("Jaeger"), Bible House, New York
 McCandless, H. W. & Co. ("Empire"), 67 Park pl., New York
 Novelty Inc. Lamp Co., Emporium, Pa.
 Rooney Electric Lamp Co., 155 E 23d, New York
 Rooney, F. J. Lamp Co., World bldg., New York
 Tipless Lamp Co., 256 W 23d, New York
 Vosburgh Miniature Lamp Co., Jersey City, N. J.
 Warren Electric & Specialty Co., Warren, O.
 Westbury Lamp Co., Newark, N. J.
 Wolff, Alfred & Co. (Importers), 45 Vesey, New York

Lamps (Incandescent Portable Electric)

Vote-Berger Co. ("Badger" Adjustable), La Crosse, Wis.

Lamps (Incandescent Renewed)

Anchor Lamp Co., 258 B'way, New York
 Bay State Lamp Co., Danvers, Mass.
 Boston Incandescent Lamp Co. ("Boston"), Danvers, Mass.
 Consolidated Electric Lamp Co. ("Lioneer", "Standard"), Danvers, Mass.
 Eagle Lamp Co., Danvers, Mass.
 Economy Electric Co. ("Economy", "Bright"), Warren, O.
 Hill-Wright Electric Co., 105 Reade, New York
 Holscher Elec. Mfg. Co. ("Reliance"), Warren, Ohio
 Novelty Incandescent Lamp Co. ("Excel"), Emporium, Pa.

Philadelphia El. Equipment Co., 23 S 16th.
 Phoenix Electric Co., Warren, O. Phila., Pa.
 Re-New Lamp Co., Boston, Mass.
 Safety Electric Co., 351 Michigan av., Chicago, Ill.
 Standard Electric Lamp Co., Newark, N. J.
 Sterling Electrical Mfg. Co., Warren, O.

Lamps (Incandescent Street Series)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Gilmore Electric Co., 625 E 1st, Boston, Mass.

Lamps (Incandescent Vapor Gas)

Best Light Co., Canton, O.
 Canton Incandescent Light Co., Canton, O.
 Chicago Solar Light Co. ("Nulite"), 21 River, Chicago, Ill.
 Cleveland Vapor Light Co., Cleveland, O.
 Diamond Light Co., Canton, O.
 Economical Electric Lamp Co., 25 W B'way, New York
 Kitson Hydro Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
 Sun Vapor Street Light Co., Canton, O.
 Superior Mfg. Co., Ann Arbor, Mich.

Lamps (Inverted Gasoline)

National Light, Heat & Power Co. ("New Century"), 302 W Lake, Chicago, Ill.

Lamps (Locomotive Gauge)

Dressel Railway Lamp Works (For Steam or Water Gauge), 3860 Park av., New York
 Gray, Peter & Sons (Locomotive, Water, Steam Gauge, etc.), 88 Union, Boston, Mass.
 Ham, C. T. Mfg. Co., Rochester, N. Y.
 Knapp Mfg. Co. (Steam or Water), 20 Warren, New York
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Lamps (Marine, Oil)

(See also Lamps, Automobile; also Projectors or Searchlights)
 American Lamp Co., Detroit, Mich.
 Badger Brass Mfg. Co. ("Solar"), Kenosha, Mich.
 Bradley & Hubbard Mfg. Co. (Cabin), Meriden, Conn.
 Dietz, R. E. Co. ("Paragon"), 60 Laight, New York
 Dressel Railway Lamp Works (Revolving Deck Caboose), 3860 Park av., New York
 Du Bois Searchlight Co., 220 B'way, New York
 Edmunds & Jones Mfg. Co. ("E. & T."), Detroit, Mich.
 Gray, Peter & Sons, Detroit, Mich.
 Miller, Edw. & Co. (Cabin), Meriden, Conn.
 Page Bros. & Co. (Cabin & Signal), 347 Cambridge, Boston, Mass.
 Porter's Wm. Sons Co. (Cabin & Signal), 2 Vandewater, New York
 Rose Mfg. Co. ("Neverout"), 910 Arch, Phila., Pa.
 Rushmore Dynamo Works ("Rushmore"), Plainfield, N. J.
 Russell & Stoll Co. (Cabin & Signal), 48 Cliff, New York
 Russell & Watson (Signal), Buffalo, N. Y.
 Scoville & Peck, 15 Wooster, New Haven, Conn.
 Standard Lamp & Mfg. Co. ("Standard"), 43 Canal, Chicago, Ill.
 Twentieth Century Mfg. Co. ("Twentieth Century"), 19 Warren, New York

*Lamps (Mercury Vapor)

COOPER-HEWITT ELECTRIC CO., 220 W 29th, New York

*Lamps (Metallized-Filament)

WESTINGHOUSE LAMP CO., Bloomfield, N. J.

Lamps (Mine, Acetylene)

Autolyte Mfg. Co., 24 Warren, New York
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Lamps (Miners' Safety)

American Safety Lamp & Mine Supply Co., Scranton, Pa.
 Anton, Christopher L., Monongahela, Pa.
 Auton, Geo. & Bro. ("Star," "Globe," "Eagle"), Monongahela, Pa.
 Anton, John & Son, Monongahela, Pa.
 Everhart Brass Works, Scranton, Pa.
 Fidelity International Agency, 521 B'way, New York
 Harbaceg, Martin Co., Allegheny, Pa.
 Hughes Bros., Scranton, Pa.
 Hunt, Alex. E. ("Hunt's" for Kerosene or Whale Oil), Scranton, Pa.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 113 Chambers, New York. (See adv. index, end of book)
 Luzerne Cap Co. ("Black Diamond"), Wilkes-Barre, Pa.
 Portable Electric Safety Light Co. ("Hubbell" Electric Safety), 37 N. J. R. R. av., Newark, N. J.
 Republic Metalware Co., Buffalo, N. Y., & 21 Cliff, New York

Lamps (Motor)

(See Lamps, Automobile, Gas & Oil)

*Lamps ("Nernst")

NERNST LAMP CO., Fayette & Garrison pl., Pittsburg, Pa.

Lamps (Orchestra)

McLeod, Ward & Co., 27 Thames, New York

Lamps (Photo Engraving)

(See Lamps, Arc, Photo-Engraving)

Lamps (Pocket, Electric)

(See Flashlights, Electric Lamps & Lanterns)

Lamps (Portable Table)

(See Lamps, Table)

Lamps (Railway)

Adams & Westlake Co., Ontario c. N. Franklin, Chicago, Ill.
 Armspear Mfg. Co., 447 W 53d, New York
BERGER MFG. CO., THE, Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Dayton Mfg. Co., Dayton, O.
 Dewey, F. O. Co., 28 Canal, Boston, Mass.
 Dietz, R. E. Co. (Track Walkers, Car Inspectors, Conductors, etc.), 60 Laight, New York
 Dressel Railway Lamp Works, 3860 Park av., New York
 Gray, Peter & Sons (Conductors' Signal, Switch Tail, etc.), 88 Union, Boston, Mass.
 Handlan-Buck Mfg. Co. ("Blizzard" "Engine" & "Utility Tail"), 212 N 3d, St. Louis, Mo.
 Ohio Lantern Co. ("Baron"), Tiffin, O.
 Sherburne & Co., 53 Oliver, Boston, Mass.
 Smith, Chas. G., 352 Pearl, New York
 Star Headlight Co., Rochester, N. Y.

Lamps (Semaphore Signal)

Adams & Westlake, Ontario c. N. Franklin, Chicago, Ill.
 Armspear Mfg. Co., 447 W 53d, New York
 Dressel Railway Lamp Wks. (Steel & Tinned), 3860 Park av., New York
 Star Headlight Co., Rochester, N. Y.

*Lamps (Shop Lighting)

COOPER-HEWITT CO., 220 W. 29th, New York

Lamps (Signal)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
 Armspear Mfg. Co., 447 W 53d, New York
 Dayton Mfg. Co., Dayton, O.
 Dressel Railway Lamp Works (Automatic Ensigne & "Herculean," "Fasset" & Electric Route, etc.), 3860 Park av., New York
 Dodson Signal Lamp & Lantern Co., Scranton, Pa.
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Handlan-Buck Mfg. Co. ("Wells," also Engine & Tail), 212 N. 3d, St. Louis, Mo.
Kltson Hydro-Carbon Heating & Incandescent Lighting Co., 8th & Willow sts, Phila., Pa.
Mahoney, Dan'l & Sons, 17 Main, Buffalo, N. Y.
Manning Signal Lamp Co., Des Moines, Ia.
Rochester Head Light Works (Jas. H. Kelly, Prop.), Rochester, N. Y.
Smith, Chas. G., 352 Pearl, New York
Star Headlight Co., Rochester, N. Y.

Lamps (Station)

Armspear Mfg. Co., 447 W 53d, New York
Boesch Lamp Co., 585 Mission, San Francisco, Cal.
Dressed Railway Lamp Works, 3860 Park av, New York
Gray, Peter, 12 Marshall, Boston, Mass.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Pritchard-Strong Co., Rochester, N. Y.
Rochester Lamp Co., 38 Park pl, New York
Smith, Chas. G., 352 Pearl, New York

Lamps (Street)

Automatic Incandescent Light Co. ("Auto Arc"), Northboro, Mass.
BERGER MFG. CO., Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Best Light Co., Canton, O.
Chicago Solar Light Co., 81 5th av, Chicago, Ill.
Dietz, R. E. Co., 60 Lighthouse, New York, Ill.
Dressel Railway Lamp Works (Gas or Oil), 3860 Park av, New York
Gaumer, John L. Co., 22d & Wood, Phila., Pa.
Globe Gas Light Co., 79 Union, Boston, Mass.
Globe Light & Heat Co., 218 La Salle, Chicago, Ill.
Ham, C. T. Mfg. Co., 731 Oak, Rochester, New York
Kltson Hydro-Carbon Heating & Incandescent Lighting Co., 1224 Callowhill, Phila., Pa.
Miner, Thos. T. W. ("The Miner"), 823 Eagle av, New York
Penna. Globe Gas Light Co., Broad & Arch, Philadelphia, Pa.
Pritchard-Strong Co., Rochester, N. Y.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.
White Mfg. Co. ("White Star"), 192 Michigan, Chicago, Ill.

Lamps (Switch)

Adams & Westlake Co., Ontario c. N Frank-
lin, Chicago, Ill.
Armspear Mfg. Co., 447 W 53d, New York
Dayton Mfg. Co., Dayton, O.
Dewey, F. O. Co., 28 Canal, Boston, Mass.
Dressel Railway Lamp Wks. (Steel & Tinned), 3860 Park av, New York
Gray, Peter, 12 Marshall, Boston, Mass.
Handlan-Buck Mfg. Co. ("Prahm," Target, etc.), 212 N 3d, St. Louis, Mo.
Star Headlight Co., Rochester, N. Y.

Lamps (Table)

Bradley & Hubbard Mfg. Co., Meriden, Conn.
Dressel Railway Lamp Works ("Belgian" Stand for Desk or Ticket Office), 3860 Park av, New York
Gall-Webb Mfg. Co. (Adjustable, Portable), Buffalo, N. Y.
Goodwin & Kintz Co., Winsted, Conn.
Miller, Edw. & Co., Meriden, Conn.
National Brass & Iron Works, Reading, Pa.
Palpint Corporation, New Bedford, Mass.
Plume & Atwood Mfg. Co., Waterbury, Conn., New York & Chicago
Salo Art Metal Co. (Portable, Gas & Electric), 19 Collier, Binghamton, N. Y.
Standard Oil Co. ("Rayo" Oil), 555 W 25th, New York
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
Walton, Jas., & Co., Phenicia, N. Y. (book)
Wheeler, M. B. Electric Co., Grand Rapids, Mich.
White Mfg. Co., 192 Michigan, Chicago, Ill.
Wilson, F. Cortez & Co., 239 Lake, Chicago, Ill.
Wreiser Bros., Dassel, Minn.
Yancey Generator Co., Chartres, New Orleans, La.

Lamps (Tantalum)

Brilliant Electric Co., Cleveland, O.
Buckeye Electric Co., Cleveland, O.
Columbia Incandescent Lamp Co., St. Louis, Mo.
Franklin Electric Mfg. Co., Hartford, Conn.

GENERAL ELECTRIC CO. ("Merid-
dau," Tantalum), Schnectady, N. Y., & 30
Church, New York. (See adv. index &
branch offices, end of book)
National Electric Lamp Co., Cleveland, O.
WESTINGHOUSE LAMP CO., Bloomfield,
N. J.

Lamps (Torch)

(See Torches, Hand)

Lamps (Tungsten)

Brilliant Electric Co., Cleveland, O.
Buckeye Electric Co., Cleveland, O.
Columbia Incandescent Lamp Co., St. Louis, Mo.
Electrical Accessories Co. ("Just," Imported), 1133 B'way, New York
Fostoria Incandescent Lamp Co., Fostoria, O.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, New York. (See
adv. index & branch offices, end of book)
Shelby Electric Co., Shelby, O.
Sterling Electrical Mfg. Co., Warren, O.
Suburban Incandescent Lamp Co., 32 W Polk,
Chicago, Ill.
Warren Elec. & Specialty Co., Warren, O.
WESTINGHOUSE ELEC. & MFG. CO.,
Union Bank bldg, Pittsburg, Pa. (See adv.
index & branch offices, end of book)

Lamps (Vapor)

GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, New York. (See
adv. index & branch offices, end of book)
Hewitt, Cooper Electric Co., 220 W 29th, New
York
Moore Electrical Co., Newark, N. J.

Lanterns (Artistic Wrought)

(See Lanterns, Artistic Wrought & Bronze; also
Gas Fixtures, Wrought Iron)

Lanterns (Artistic Wrought & Bronze)

FLOUR CITY ORNAMENTAL IRON
Works, 27th st & 28th av, Minneapolis,
Minn. (See adv. index, end of book)
GORHAM CO. ARCH'L BRONZE,
5th av & 36th, New York; Works: Provi-
dence, R. I. (See adv. index, end of book)
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York, & 163 Michi-
gan av, Chicago, Ill. (See adv. index, end
of book)
MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)
Peterson, L., 204 Centre, New York
PITT, WM. R. COMPOSITE IRON
Works, 136 W 24th, New York. (See adv.
index, end of book)
SCHREIBER, L. & SONS CO., 8th &
Eggleston av, Cincinnati, O., & 1133 B'way,
New York. (See adv. index end of book)
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
STANDARD CO., Railway Exchange bldg,
Chicago, Ill. (See adv. index, end of book)
Tiffany Studios, 347 Madison av, New York
TYLER, W. S. CO., Cleveland, O. (See
adv. index & branch offices, end of book)
Union Equipment & Bronze Co., 1901 Park av,
New York
WINSLOW BROS. COMPANY, Main Office
& Works, 2315 W Harrison, Chicago, Ill.
(See adv. index & branch offices, end of book)
WISCONSIN IRON & WIRE WORKS,
190 E Water, Milwaukee, Wis. (See adv.
index, end of book)

Lanterns (Bicycle)

Bridgeport Brass Co. ("Search-Light" Oil &
Gas), Bridgeport, Conn.
Miller, Edw. & Co., Meriden, Conn.

*Lanterns (Candle)

WILSON, F. CORTEZ, & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

Lanterns (Dash Board)

Ohio Lantern Co. ("Baron," Hood Reflector,
etc.), Tiffin, O.
Pritchard-Strong Co., Rochester, N. Y.

Lanterns (Police)

Knapp Mfg. Co. ("Bull's Eye"), 20 Warren,
New York
Tower & Lyon Co., 95 Chambers, New York

Lanterns (Railway)

Adams & Westlake Co., Ontario & N Frank-
lin, Chicago, Ill.
American Railway Supply Co., 24 Park pl,
New York
Armspear Mfg. Co. (Wire & Steel Guard), 447
W 53d, New York
BERGER MFG. CO., THE, Main Of-
ice & Works, Canton, O. (See adv. index
& branch offices, end of book)
Boesch Lamp Co., 585 Mission, San Francisco,
Cal.
Dayton Mfg. Co., Dayton, O.
Delphos Mfg. Co. ("Standard," Self Lightlug),
Delphos, O.
Dewey, F. O. Co., 28 Canal, Boston, Mass.
Dietz, R. E. Co. (Hand), 60 Lighthouse, New York
Dressel Railway Lamp Works, 3860 Park av.,
New York
Glens Falls Lantern Co., Glens Falls, N. Y.
Gray, Peter & Sons (Conductors, Signal, Switch
Tail, etc.), 88 Union, Boston Mass.
Ham, C. T. Mfg. Co., Rochester, N. Y.
Handlan, Buck Mfg. Co., 212 N 3d, St. Louis,
Mo.
Keystone Lantern Co., 5033 Portico, Gtn.,
Philadelphia, Pa.
Loeffelholz Co., 170 Clinton, Milwaukee, Wis.
Ohio Lantern Co. ("Baron"), Tiffin, O.
Pritchard-Strong Co., Rochester, N. Y.
Rochester Head Light Works (Jas. H. Kelly,
Prop.), Rochester, N. Y.
Smith, Chas. G., 352 Pearl, New York
Stillman Safety Lamp & Heater Co. ("Still-
man," Safety), 95 William, New York
Star Headlight Co., Rochester, N. Y.
Tufts, Nab'l Meter Co., Boston, Mass.
Union Supply Co. ("Tracy's Strong Light"),
St. Louis, Mo.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.
Zelnicker, Walter A. Supply Co., St. Louis,
Mo.

Lanterns (Tubular)

BERGER MFG. CO., THE, Main Of-
ice & Works, Canton, O. (See adv. index
& branch offices, end of book)
Buhl Stamping Co., Detroit, Mich.
Dietz, R. E. Co. (Hand), 60 Lighthouse, New York
Ham, C. T. Mfg. Co. (Hot & Cold Blast),
Rochester, N. Y.
Hurwood Mfg. Co. ("Hurwood"), Bridgeport,
Conn.
Ohio Lantern Co. ("Baron"), Tiffin, O.
Pritchard-Strong Co. ("Trisco" Tin, Cold Blast
& Hot Blast Dash), Rochester, N. Y.
Wheeling Stamping Co., Wheeling, W. Va.
Winfield Mfg. Co., Warren, O.

*Lariats

SAMSON CORDAGE WORKS, 88
Broad, Boston, Mass. (See adv. index,
end of book)

Larries

Alliance Machine Co., Alliance, Ohio
Anderson, W. H. Tool & Supply Co. (For Stone
& Timber), 14 Macomb, Detroit, Mich.
Connellsville Machine & Car Co., Connellsville,
Pa.
Helmick Foundry & Machine Co. (Coke Oven
Charging), Fairmont, W. Va.
JEFFREY MFG. CO. (Coke Oven),
Columbus, O. (See adv. index & branch
offices, end of book)
Niles Mine & Mill Supply Co., Cleveland, O.,
& Niles, O.
Phillips, Hine & Hill Supply Co. (Coke Oven),
Pittsburg, Pa.
Scottdale Fdry. & Mach. Co. (Electric Coal &
Coke Oven Charging), Scottdale, Pa.
Youngstown Car Mfg. Co., Youngstown, O.

Latches (Barn Door)

Albany Hardware Specialty Mfg. Co. ("Whit-
comb"), Albany, Wis.
Allith Mfg. Co. ("Allith"), W. Taylor c S 43d
av, Chicago, Ill.
Arcade Mfg. Co. ("Rex"), Freeport, Ill.
Brewer Bros. (Wrought), 614 Filbert, Phila.,
Pa.
Cronk & Carrier Mfg. Co. (Steel), Elmira,
N. Y.
Hunt, Helm, Ferris & Co. ("Harvard" & "Star"
Automatic), Harvard, Ill.

BOSTWICK "TRUSS LOOP" LATH

AN EVOLUTION WORTH WHILE
THE BEST ON THE WORLD'S MARKET
(PATENT APPLIED FOR)

THE ONLY METAL LATH FOR STUDDING 16 INCHES ON CENTERS

STAND
ON THE
LOOPS
THEY
CAN'T
BEND



THE
CLINCH
OR TIE
?
BEST
EVER
!

MADE IN THE SAME SIZES AS THE
"OLD RELIABLE BOSTWICK" WHICH WE STILL
MANUFACTURE.

THE BOSTWICK STEEL LATH CO., Niles, Ohio, U.S.A.



"Herringbone" Metal Lath

Largest Manufacturers
in the world of

METAL LATH

WE ALSO MAKE

{ KEY Expanded Metal Lath (Diamond Mesh)
GENFIRE Expanded Metal Lath " "
BOSTON Sheet Steel Lath

KINDRED MATERIALS:

NATIONAL STEEL CORNER BEAD, UNIVERSAL CORNER
BEAD, STAPLES, TIE WIRE, ETC.

"DOUBLE CRIMP" WALL TIES

THE GENERAL FIREPROOFING COMPANY

For Branch Office Addresses, See Advertisers' Index, End of Book.

YOUNGSTOWN, OHIO

Concrete Reinforcement, See Adv. Opposite Page 431.
Adv. Opposite Page 49.

"Allsteel" Bank, Library and Public Building Equipment, See
Office Furniture and Filing Devices Made of Steel, See Adv. Page 804.

Send for Catalogues.

HENDRICKS' COMMERCIAL REGISTER
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INDUSTRIAL INFORMATION

Q We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine, tool or specialty which they may require. :: :: :: :: ::

==== **Hendricks'** =====
Commercial Register

Lyons Specialty Co. ("Petersen"), Lyons, Ia.
National Mfg. Co., Sterling, Ill.

Peck, C. A., Hardware Mfg. Co. ("Gem"),
Berlin, Wls.
Peck-Hamre Mfg. Co. ("Jewell"), Berlin, Wls

Penn Hardware Co., Reading, Pa.
Porter, J. E., Co., Ottawa, Ill.

Reading Hardware Co., Reading, Pa.

Richards Mfg. Co., Aurora, Ill.

Russell & Erwin Mfg. Co., New Britain,
Conn., & 96 Lafayette, New York

Safety Door Hanger Co., Ashland, O.

Stover Mfg. Co., Freeport, Ill.

Wagner Mfg. Co. ("Daisy"), Cedar Falls, Ia.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index and branch of
fices, end of book)

Willcox Mfg. Co., Aurora, Ill.

Wrightsville Hdw. Co. (Wrought), Wrights-
ville, Pa.

Latches (Cupboard)

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain,
Conn., & 96 Lafayette, New York

Western Brass Mfg. Works, 21st and Rock-
well, Chicago, Ill.

Latches (Fire Door)

Peters, Jas. & Son (Wrought Iron), 1934 N
Front, Phila., Pa.

Richards Mfg. Co., Aurora, Ill.

Slaymaker, S. R., Lancaster, Pa.

Stover Mfg. Co., Freeport, Ill.

Willcox Mfg. Co. (Steel), Aurora, Ill.

Wrightsville Hardware Co., Wrightsville, Pa.

Latches (Gate)

Brewer Bros. (Wrought, with Catch & Staple),
614 Filbert, Phila., Pa.

Clark Mfg. Co. (Animal Proof), Buffalo, N. Y.

Climax, J. H. W., Co., 275 Passaic, Newark,
N. J.

Hardware & Woodenware Mfg. Co., 693 B'way,
New York

Kupferle, Jno. C., 2d & Monnd, St. Louis, Mo.

Penn Hardware Co., Reading, Pa.

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain,
Conn., & 96 Lafayette, New York

Susquehanna Casting Co., Wrightsville, Pa.

Weller Hardware & Foundry Co., Horseheads,
N. Y.

Western Brass Mfg. Works (Reversible Office,
etc.), 21st & Rockwell, Chicago, Ill.

Willcox Mfg. Co. ("Willcox-Ericson" Steel), Au-
rora, Ill.

Wrightsville Hardware Co. ("Shepard's" "St
Louis" Pattern, etc.), Wrightsville, Pa

Yale & Towne Mfg. Co., 9 Murray, New York

Latches (Night)

Bohannon, Wilson, 760 Lexington, B'klyn, N. Y.

Climax, J. H. W., 275 Passaic, Newark, N. J.

Eagle Lock Co., Terryville, Conn., & 98 Cham-
bers, New York

Dayton Supply Co. (Non-Pickable), Dayton, O.

Fralm, E. T., Lock Co., Lancaster, Pa.

Miller, J. Walter, Lancaster, Pa.

Penn Hardware Co., Reading, Pa.

Romer & Co., 275 Passaic, Newark, N. J.
Russell & Erwin Mfg. Co., New Britain,
Conn., & 96 Lafayette, New York
Slaymaker, S. R., Lancaster, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

Latches (Refrigerator)

Arcade Mfg. Co. (& "Star" Ice Box Latches),
Freeport, Ill.

Western Brass Mfg. Works (Brass, Bronze &
Malleable Iron Japanned), 21st & Rockwell
Chicago, Ill

Latches (Shutter)

Western Brass Mfg. Works (Brass & Bronze),
21st & Rockwell, Chicago, Ill.

Latches (Sliding Door)

(See Locks & Latches, Sliding Door)

Latches (Spring)

Hardware Supply Co. (Small), Grand Rapids,
Mich.

Latches (Thumb)

Brewer Bros. (Wrought), 614 Filbert, Phila.,
Pa.

Hardware & Woodenware Mfg. Co., 693 B'way,
New York

Penn Hardware Co., Reading, Pa.

Peters, Jas. & Son (Wrought Iron), 1934 N
Front, Phila., Pa

Reading Hardware Co., Reading, Pa.

Russell & Erwin Mfg. Co., New Britain,
Conn., & 96 Lafayette, New York

Wrightsville Hardware Co., Wrightsville, Pa.

Latches (Water Closet)

Russell & Erwin Mfg. Co., New Britain,
Conn., & 96 Lafayette, New York

Yale & Towne Mfg. Co., 9 Murray, New York

Lath Binders & Trimmers

American Sawmill Machinery Co. (Combined),
50 Church, New York. Works: Hacketts-
town, N. J.

Butterworth & Lowe (Inc.) (Combined), Grand
Rapids, Mich.

Chase Turbine Mfg. Co., Orange, Mass.

Furtis & Co. Mfg. Co., St. Louis, Mo.

Diamond Iron Works, Minneapolis, Minn.

Garland, M. & Co., Bay City, Mich.

Hall & Brown Woodworking Machine Co., 1917
N. B'way, St. Louis, Mo

Hill, Wm. E. & Co., Kalamazoo, Mich.

Lane Mfg. Co., Montpelier, Vt.

Lyon Iron Works, Greene, N. Y.

Mills & Merrill, Saginaw, Mich.

Murray, D. J. Mfg. Co., Wauson, Wls.

Phoenix Mfg. Co. ("Combined"), Eau Claire,
Wis.

Standard Saw Mill Machinery Co., Erle, Pa.

Wickes Bros., Saginaw, Mich.

Lath Bolters

(See Lath Mills & Bolters)

Lath (Expanded Metal)

AMERICAN CONCRETE CO. (Mfrs.
Agents), 80 William, New York. (See adv.
index, end of book)

BERGER MFG. CO., THE, Main Of-
fice & Works: Canton, O. (See adv. index
& branch offices, end of book)

BOSTWICK STEEL LATH CO., Niles,
O. (See adv. index, end of book)

Consolidated Expanded Metal Co.'s, Keenan
bldg, Pittsburg, Pa.

Corrugated Bar Co., National Bank of Com-
merce bldg, St. Louis, Mo.

Eastern Expanded Metal Co., 101 Tremont, Bos-
ton, Mass.

EDWARDS MFG. CO., 545-565 Eg-
gleston av, Cincinnati, O. (See adv. index,
end of book)

Expanded Metal Engineering Co., 225 5th av.,
New York

Expanded Metal Fireproofing Co. of Pittsburg,
Keenan bldg, Pittsburg, Pa.

Garry Iron & Steel Co. ("Cleveland"), Cleve-
land, O.

GENERAL FIREPROOFING CO., Youngs-
town, O., & 10 E 33d, New York. (See adv.
index & branch offices, end of book)

MERRITT & CO., 94 Arch, Camden,
N. J. (See adv. index, end of book)

MILWAUKEE CORRUGATING CO.
("Milwaukee Diamond"), Milwaukee, Wls.
(See adv. index & branch offices, end of book)

Northwestern Expanded Metal Co. ("Kno-
burn"), Old Colony bldg, Chicago, Ill.

ROEBLING CONSTRUCTION CO., Ful-
ler bldg, New York. (See adv. index &
branch offices, end of book)

Southern Expanded Metal Co., Washington,
D. C.

Sykes Metal Lath & Roofing Co., Niles, O.

TRUSSED CONCRETE STEEL CO.,
Trussed Concrete bldg, Detroit, Mich. (See
adv. index & branch offices, end of book)

Western Expanded Metal & Fireproofing Co.,
San Francisco, Cal.

Youngstown Iron & Steel Roofing Co. ("T. &
C."), Youngstown, O.

Lath Fasteners (Metallic)

Star Stud & Lath Tool Co. ("Star"), India-
napolis, Ind.

Lath (Metal)

(See also Lath, Expanded Metal)

AMERICAN CONCRETE CO. (Mfrs.
Agents), 80 William, New York. (See adv.
index, end of book)

American Rolling Mill Co., Middletown, O.

American Sheet & Tin Plate Co., Frick bldg,
Pittsburg, Pa.

BERGER MFG. CO., THE, Main Of-
fice & Works: Canton, O. (See adv. index
& branch offices, end of book)

BOSTWICK STEEL LATH CO., Niles,
Ohio. (See adv. index, end of book)

Corrugated Bar Co., National Bank of Com-
merce bldg, St. Louis, Mo.

EDWARDS MFG. CO., 545-565 Eg-
gleston av, Cincinnati, O. (See adv. index,
end of book)

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GENERAL FIREPROOFING CO. (Herringbone), Youngstown, O., & 10 E 33d, New York. (See adv. index & branch offices, end of book)

Hayes, Geo. Co., 71 8th av, New York
MERRITT & CO., 94 Arch, Camden,
 N. J. (See adv. index, end of book)
 Meurer Bros. Co., 575 Flushing av, Brooklyn
 N. Y.

Mowbray, Pearson Co., 132-134 International
 Right of Way, Spokane, Wash
 Penn Metal Ceiling & Roofing Co. ("American" & "Penn"), 23d & Hamilton, Phila.,
 Pa.

Schratwieser Fire-Proof Construction Co., 43
 3d av, Brooklyn, N. Y.
 Sykes Metal Lath & Roofing Co., Niles, O.

TRUSSED CONCRETE STEEL CO.,
 Trussed Concrete bldg, Detroit, Mich. (See
 adv. index & branch offices, end of book)

TRUSS METAL LATH COMPANY
 ("Kuhne's"), 147 4th av, New York. (See
 adv. index, end of book)

Wheeling Corrugating Co., Wheeling, W. Va.
 Youngstown Iron & Steel Roofing Co. ("T. & C"), Youngstown, O.

Lath Mills & Bolters

Abbott, D. S. Co. (Combined Gang), Olean,
 Adams, S. & Son, Rome, N. Y. N. Y.

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)

American Sawmill Machinery Co. ("American"),
 50 Church, New York. Works: Hacketts-
 town, N. J.

American Woodworking Machinery Co., Roches-
 ter, N. Y., & West st bldg, New York
 Baldwin, Tuttle & Bolton, Grand Rapids, Mich.
 Butterworth & Lowe, (Inc.), (Combination),
 Grand Rapids, Mich.

Chase Turbine Mfg. Co., Orange, Mass.
 Curtis & Co. Mfg. Co., St. Louis, Mo.

Diamond Iron Works, Minneapolis, Minn.
 Filer & Stowell Co., Home Office, Milwaukee,
 Frank Machinery Co., Buffalo, N. Y. Wis.

Garland, M. Co., Bay City, Mich.
 Hall & Brown Woodworking & Machine Co.,
 1917 N B'way, St. Louis, Mo

Hill, Wm. E., & Co., Kalamazoo, Mich.
 Howell, R. R., & Co., Minneapolis, Minn.

Kline, Lewis T., Alpena, Mich.
 Knight Mfg. Co., Canton, Ohio

Lane Mfg. Co. (Combination), Montpelier, Vt
 Lyon Iron Works (Gang), Greene, N. Y.

Mitts & Merrill (Combination), Saginaw, Mich.
 Moltz, Jacob J. (Combined), Williamsport, Pa

Murray, D. J. Mfg. Co., Wausau, Wis.
 Newman Machine Co., Greensboro, N. C.

Novelty Iron Works (G. E. Davis, Prop.), Du
 buque, Ia.

Phoenix Mfg. Co., Eau Claire, Wis.
 Rodgers Iron Mfg. Co., Muskegon, Mich.

Smith, H. B. Machine Co., Smithville, N. J.,
 & 121 Liberty, New York

Smith, Myers & Schnier Co., 621 W Front,
 Cincinnati, O.

Standard Saw Mill Machinery Co., Erie, Pa.
 Union Iron Works, Bangor, Me.

United States Machine Co. (Combined or Sep-
 arate), Williamsport, Pa.

Wheland Machine Works (Combined), Chatta-
 nooga, Tenn.

Wickes Bros., Saginaw, Mich.

Lath (Wire)

Buffalo Wire Works Co., 316 Terrace, Buffalo
 N. Y.

Clinton Wire Cloth Co., Clinton, Mass.
 Gilbert & Bennett Mfg. Co., Georgetown, Conn

MERRITT & CO., 94 Arch, Camden,
 N. J. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO., 506
 Howard, Detroit, Mich. (See adv. index,
 end of book)

National Mfg. Co., Worcester, Mass.

ROEBLING CONSTRUCTION CO., Ful-
 ler bldg, B'way & 23d, New York. (See adv.
 index & branch offices, end of book)

SMITH, F. P. WIRE & IRON WKS
 100 Lake, Chicago, Ill. (See adv. index,
 end of book)

TYLER, W. S. CO., Cleveland, O
 & 11 B'way, New York. (See adv. index
 & branch offices, end of book)

WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end
 of book)

Lath & Picket Mills

Abbott, D. S. Co., Olean, N. Y.
 Adams, S. & Son, Rome, N. Y.

American Woodworking Machine Co., Rochester,
 N. Y., & 136 Liberty, New York

Butterworth & Lowe, Grand Rapids, Mich.
 Chase Turbine Mfg. Co., Orange, Mass.

Filer & Stowell Mfg. Co., Milwaukee, Wis.
 Frank Machinery Co., 50 Mechanic, Buffalo, N. Y.

Garland, M. & Co., Bay City, Mich.
 Hill, W. E. & Co., Kalamazoo, Mich.

Howell, R. R. & Co., Minneapolis, Me.
 Kline, Lewis T., Alpena, Mich.

Lane Mfg. Co., Montpelier, Vt.
 Mitts & Merrill, Saginaw, Mich.

Murray, D. J. Mfg. Co., Wausau, Wis.
 Phoenix Mfg. Co., Eau Claire, Wis.

Power, L. & Co., 20 S 23d, Phila., Pa.
 Smith, H. B. Machine Co., Smithville, N. J., &
 121 Liberty, New York

Smith, Myers & Schnier Co., 621 W Front, Cin-
 Union Iron Works, Bangor, Me. cinnati, O.

Wickes Bros., Saginaw, Mich.

Lathe & Saw

Millers Falls Co. ("Champion," "Goodell"),
 28 Warren, New York; Works: Millers
 Falls, Mass.

Lathes (Axe Handle)

(See Lathes, Handle Turning)

Lathes (Axle Turning)

Bridgeford Machine Tool Works (Single &
 Double Head), Rochester, N. Y.

Johnson, Israel H., Jr., Co. (Inc.), Phila., Pa.
 Lodge & Shipley Machine Tool Co., 3055 Cole-
 rain av, Cincinnati, O.

Niles-Bement-Pond Co., 111 B'way, New York
 Putnam Machine Co., Fitchburg, Mass.

Sellers, Wm. & Co. (Inc.), (Double Head),
 1600 Hamilton, Philadelphia, Pa.

Spears & Riddle Co., Wheeling, W. Va.
 Williams, White & Co. (For Wagon Companies),
 Moline, Ill.

Lathes (Ball Bat)

(See Ball Bat Machinery)

Lathes (Barrel)

Stralt, H. N. Mfg. Co., Kansas City, Mo.

Lathes (Bench)

American Watch Tool Co. ("Webster-Whitcomb"
 Lathes), Waltham, Mass.

Ames, B. C. & Co., Waltham, Mass.

Carroll-Jamieson Machine Tool Co., Batavia, O.
 Cataract Tool & Optical Co., Buffalo, N. Y.

Davis, W. P. Machine Co., Rochester, N. Y.
 Diamond Machine Co., Providence, R. I.

Faneuil Watch Tool Co., 1 Brooks, Br., Bos-
 ton, Mass.

Garvin Machine Co., 137 Varick, New York
 Gump, A. W. & Co., Dayton, O.

Hardage Bros. ("Cataract" Precision), 1036
 Lincoln av, Chicago, Ill.

Massachusetts Tool Co., Greenfield, Mass.
 Moseley Lathe Co., Elgin, Ill.

Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.

PRENTISS TOOL & SUPPLY CO., 115
 Liberty, New York. (See adv. index &
 & branch offices, end of book)

Reed, F. E. Co., Worcester, Mass.
 Rivett Lathe Mfg. Co., Brighton, Boston, Mass.

Seneca Falls Mfg. Co. ("Star"), Seneca Falls,
 N. Y.

Sheldon, E. H., & Co., 84 N May, Chicago, Ill.
 Sloan & Chace Mfg. Co. (Ltd.) (& Attach-
 ments), Newark, N. J.

STARK TOOL CO. ("Stark" Machinists'),
 Waltham, Mass. (See adv. index, end of
 book)

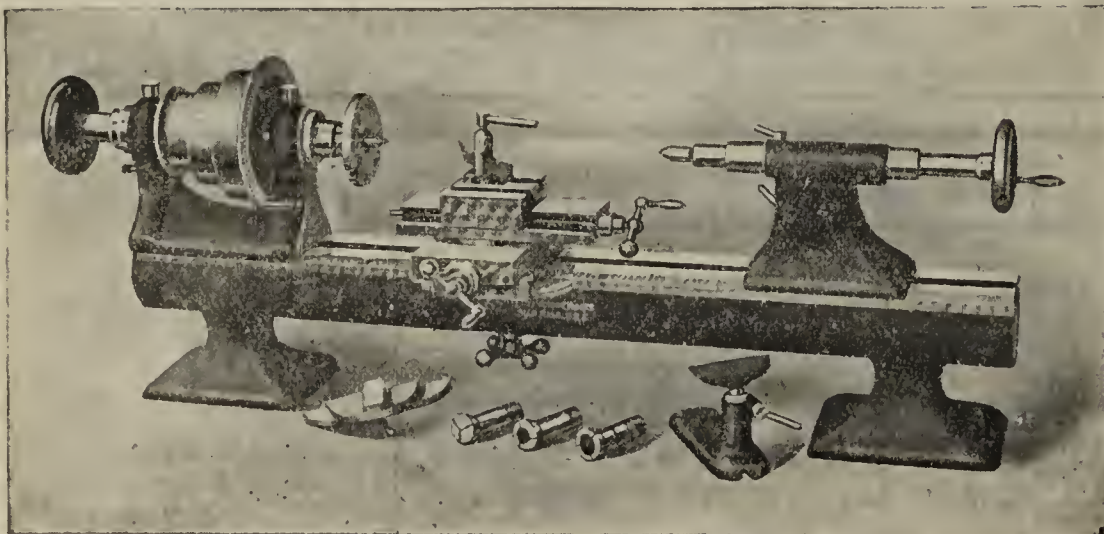
Taylor & Feun Co., 54 Arch, Hartford, Conn.
WALTHAM MACHINE WORKS (Preci-
 sion), Waltham, Mass. (See adv. index,
 end of book)

Waltham Watch Tool Co. (Watchmakers),
 Springfield, Mass.

Welch, T. F. & Co., 55 Sudbury, Boston, Mass.

Lathes (Bobbin)

(See Spool & Bobbin Machinery)



WALTHAM MACHINE WORKS

Also makers of Automatic Pinion and Gear Cutting Machines,
 Sub-Press Dies, Precision Bench Machinery, etc.

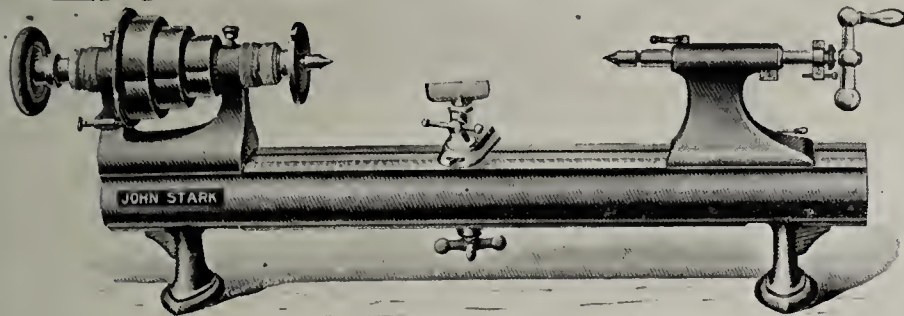
WALTHAM, MASS.

==Precision== Bench Lathe

Will swing 8-inch diameter
 and take 5-8 inch through the
 chuck. Bed either 32 or 36
 inches long. Has many at-
 tachments of improved design.
 Workmanship of the best
 watch machine standard.

We invite close inspection
 and comparison.

LATHE IDEAS OF NOWADAY



No. 4 STARK PRECISION BENCH LATHE.

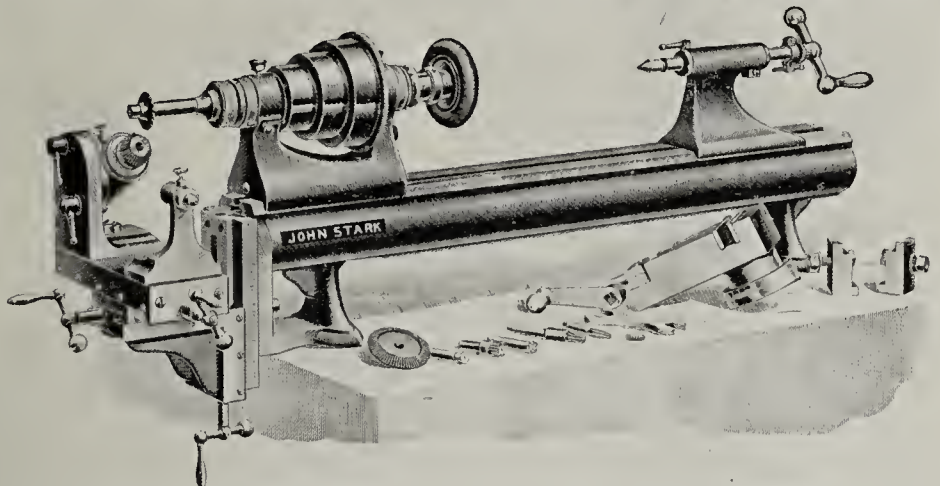
Length of bed 38", distance between centers 20". Lathe awings 9" and chuck capacity for stock from 1-64" to $\frac{1}{2}$ " clear through. Equipped with Stark Patent Anti-Friction Draw-In Spindle and Anti-Friction Ball Bearing End Thrust, which takes the strain off the bearings and does away with the back geared arrangement.

The Spindles and bearings are made of steel, hardened and ground to perfection, having angles of 3 degrees and 45 degrees. This principle is of great importance and is one of the essential features of the Stark Bench Lathes.

ECONOMY IN THE WORKSHOP

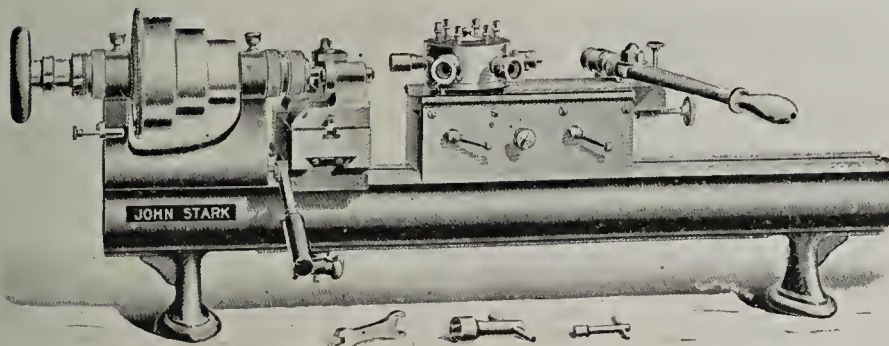
The Milling Attachment, is bolted to the angle iron which is cast with the bed, making it rigid and capable of accomplishing a large range of work. It has a lengthwise feed of 6". In and out feed $2\frac{1}{2}$ " and up and down $4\frac{1}{4}$ ", with distance between centers 6". The height from bed to center is $3\frac{3}{4}$ ". This attachment takes the same chucks as are used in the lathe head.

We have demonstrated to the trade that spindles made with the taper bearings are more durable, last longer, and give better satisfaction than spindles made upon other principles.



No. 4 STARK PRECISION BENCH LATHE AND MILLING ATTACHMENT.

FOR ENGINEERS, TOOL MAKERS, ELECTRICIANS, ETC.



No. 4. STARK PRECISION BENCH LATHE WITH AUTOMATIC TURRET HEAD AND CUTTING-OFF AND FORMING REST.

The Automatic Turret Head has six $\frac{1}{8}$ " port holes to receive mills, drills, taps and dies, built strong and rigid, all the bearings and port holes are bushed with hardened steel, taking the place of a screw machine.

The cutting off and forming is suited for a variety of irregular formed pieces. The cutters are turned to the forms required, and only have to be ground on the face when sharpened.

FIVE YEARS AHEAD OF THEM ALL.

The nose of the spindle has a thread cut 10 pitch, which is hardened and ground to a perfect standard to receive Universal Chucks, and also a supporter for step chucks. This gives a greater advantage when using the Universal chuck as the work may pass clear through the spindle.

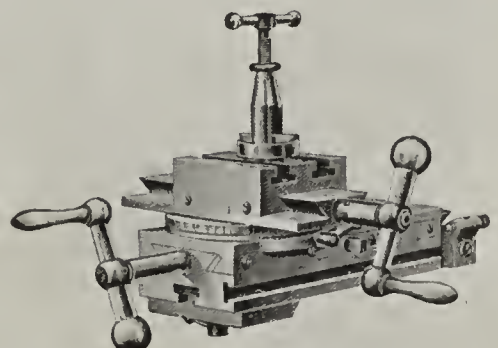
STARK TOOL CO.

MAKERS OF

PRECISION BENCH LATHES
WALTHAM, MASS., U. S. A.



No. 4 Wire Chuck,
Capacity of
chuck $\frac{1}{4}$ "



COMPOUND SLIDE REST.

H E N D R I C K S

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IF YOU ARE IN DOUBT AS TO THE
ORIGINAL MANUFACTURER OF
ANY MACHINE OR TOOL ON WHICH
THE PATENTS HAVE EXPIRED, THAT
ARE NOW BEING EXPLOITED BY MANY
MAKERS, ASK HENDRICKS.

C O M M E R C I A L

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PLETE REGISTER OF THE MANU-
FACTURERS AND JOBBERS IN EVERY
LINE OF TRADE THAT COMES WITHIN
THE SCOPE OF THE WORK.

R E G I S T E R

Lathes (Bolt & Stud)

Bradford Machine Tool Co., 671 Evans, Cincinnati, O.
 Davis, W. P. Machine Co., Rochester, N. Y.
 Johnson, Israel H., Jr., Co., Phila., Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Reed, F. E. Co. (14 & 16 inch swing), Worcester, Mass.

Lathes (Brass Finishers')

American Tool & Machinery Co., 109 Beach Boston, Mass.
 American Tool Works Co., Cincinnati, O.
 Bards & Oliver 1133 W. 9th, Cleveland, O.
 Dresser Machine Tool Co., Cincinnati, O.
 Johnson, Israel H., Jr., Co., 337 N 15th, Philadelphia, Pa.
 Le Blond, R. K., Machine Tool Co., Cincinnati, O.
 National Machine Co., Milwaukee, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
PRENTISS TOOL & SUPPLY CO., 115
 Liberty, New York. (See adv. index & branch offices, end of book)
 Prybil, P. (Estate of), 510 W 41st, New York
 Springfield Machine Tool Co., Springfield, O.
 Warner & Swasey Co., Cleveland, O.
 Windsor Machine Co. (And Plain Monitors), Windsor, Vt.

Lathes (Broom Handle Turning)

(See Broom Handle Turning Machinery)

Lathes (Buffing & Polishing)

Ams, Max, Machine Co. (For Metals, Glass, etc.), Mt. Vernon, N. Y.
 Bridgeport Safety Emery Wheel Co., Bridgeport Conn.
 Buchanan, Thos. & Co., Cincinnati, Ohio
 Bnescher Band Instrument Co., Elkhart, Ind.

Builders' Iron Foundry, Providence, R. I.
 Challenge Machine Co., 5116 Springfield av., Phila., Pa.
 Chicago Wheel & Mfg. Co. ("Vulcan"), 336 W Monroe, Chicago, Ill.
 Diamond Machine Co., Providence, R. I.
 Evans, Jno. Sons, 506 N 13th, Phila., Pa.
FRIEVERT MACHINERY CO., 18 Dey,
 New York. (See adv. index, end of book)
 Goodell-Pratt Co., Greenfield, Mass.
 Hanson & Van Winkle, Newark, N. J.
 Hubbard, Wm. H. Mfg. Co., 79 Wash'n. Brooklyn, N. Y.
 Manning, Maxwell & Moore, 85 Liberty, New York
 Northampton Emery Wheel Co., Leeds, Mass.
 Oliver, W. W. Mfg. Co., Buffalo, N. Y.
 Parkhurst Mfg. Co., Peru, Ind.
PRENTISS TOOL & SUPPLY CO., 115
 Liberty, New York. (See adv. index & branch offices, end of book)
 Prybil, P. (Estate of), 512 W 41st, New York
 Reicheim, E. P. & Co., 24 John, New York
 Safety Emery Wheel Co., Springfield, Ohio
 Springfield Mfg. Co., Bridgeport, Conn.
SUPERIOR CORUNDUM WHEEL CO.,
 Waltham, Mass. (See adv. index, end of book)
 Waterbury-Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 50 Church,
 New York. (See adv. index, end of book)
 Webster & Perks Tool Co. (Self-Oiling), Springfield, O.
 Zucker, Levett & Loeb Co., 516 W 25th, New York

Lathes (Car & Driving Wheel)

Betts Machine Co. (For Driving Wheels), Wilmington, Del.
 Niles-Bement-Pond Co., 111 B'way, New York
 Putnam Machine Co., Fitchburg, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton Phila., Pa.

Lathes (Chacing)

(See Lathes, Brass Finishers')

Lathes (Chucking)

(See Chucking Machinery)

Lathes (Crank Shaft Turning)

(See Lathes, Shaft Turning; also Crank Pin Turning Machines)

Lathes (Cutting Off)

Hurlbnt-Rogers Co., South Sndbry, Mass.
 Le Blond, R. K., Machine Tool Co., Cincinnati, O.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Putnam Machine Co., Fitchburg, Mass.

Lathes (Drill)

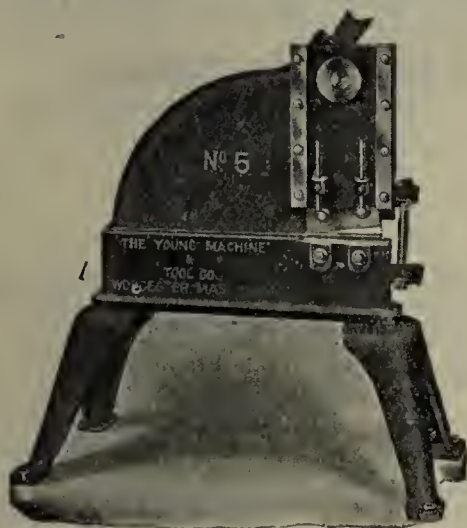
Diamond Machine Co. (Center), Providence, R. I.
 Whitcomb-Blaiddell Machine Tool Co., Worcester, Mass.

Lathes (Driving Wheel)

(See Lathes, Car & Driving Wheel)

Lathes (Engine)

American Tool Works Co., Cincinnati, O.
 Baggshaw & Field, 317 Cherry, Phila., Pa.
 Barker, W. & Co., c Pioneer & Calvert, Cincinnati, O.
 Barnes, B. F. Co., Rockford, Ill.
 Bradford Machine Tool Co. (14 to 36-inch Swing), 671 Evans, Cincinnati, O.
 Bridgeford Machine Tool Wks., Rochester, N. Y.
 Carroll-Jamieson Machine Tool Co. (14 inch), Batavia, O.

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Champion Tool Works Co. (10 to 18 in. Swing Screw Cutting), Cincinnati, O.
 Davis, W. P. Machine Co., Rochester, N. Y.
 Fairbanks Co. (12 & 14-inch), Springfield, O.
 Fay Machine Tool Co. ("Fay" Automatic), 2d & Glenwood av., Phila., Pa.
 Fay & Scott, Dexter, Me.
 Fifield, Geo. W. (17 to 84-inch Swing), Lowell, Mass.

Fitchburg Machine Works, Fitchburg, Mass.
 Flather & Co. (Screw Cutting, etc.), Nashua, N. H.

FREVERT MACHINERY CO., 18 DEY.
 New York. (See adv. index, end of book)
 G. M. Lathe Co. ("G. M." Screw Cutting), Lennox bldg., Cleveland, O.
 Garvin Machine Co., 137 Varick, New York
 Geier, P. A. Co. ("Geier" Positive Taper Turning Lathes), 5112 St. Clair av. N E, Cleveland, O.

Gleason Tool Co., Rochester, N. Y.
 Gray, G. A., Co., Gest & C. H. & D. R. R., Cincinnati, O.
 Greaves, Klusman & Co., c Cook & Alfred, Cincinnati, O.

Hamilton Machine Tool Co. (14 to 48), Hamilton, O.
 Harrington, Edwin & Son Co., 17th & Callowhill, Philadelphia, Pa.

Hendey Machine Co., Torrington, Conn.
 Holmes, Chas. Machine Co., 299 Marginal, E. B., Boston, Mass.

Johnson, Israel H., Jr., Co., Phila., Pa.
 Le Blond, R. K. Machine Tool Co., 4609 Eastern av., Cincinnati, O.

Lodge & Shipley Machine Tool Co., 3055 Cole-rain av., Cincinnati, O.

McCabe, J. J., 30 Church, New York
 Mann, Chas. A., 166 Doyle av., Providence, R. I.
 Manning, Maxwell & Moore, 85, 87 & 89 Liberty, New York

Miami Valley Machine Tool Co. (13 1-2 inch by 6 foot), Dayton, O.

Milwaukee Machine Tool Co., Milwaukee, Wis.
 Morris, John B., Foundry Co. ("Schellenbach"), Cincinnati, O.

New Haven Mfg. Co., New Haven, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Oliver Machinery Co. (Gap), Grand Rapids, Mich.

Pittsburg Machine Tool Co. (Heavy, 27 to 76; 27 to 84), Allegheny, Pa.
 Pratt & Whitney Co., Hartford, Conn.

Prentice Bros. Co. (12 to 32 inch Swing), Worcester, Mass.

PRENTISS TOOL & SUPPLY CO., 115
 Liberty, New York. (See adv. index & branch offices, end of book)

Putnam Machine Co., Fitchburg, Mass.
 Rahn, Carpenter Co., Anderson, Ind.

Reed, F. E. Co. (10 to 30 inch Swing), Worcester, Mass.
 Reed, J. B. (Screw Cutting), Cairo, Ill.

Robbins, L., Worcester, Mass.
 Schumacher & Boye, 2245 Spring Grove av., Cincinnati, O.

Sebastian Lathe Co., Covington, Ky.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Seneca Falls Mfg. Co. ("Star" foot & power screw cutting), Seneca Falls, N. Y.
 Shepard Lathe Co. (Foot & Power), 129 W 2d, Cincinnati, O.

Snyder & Metcalf, Waterford, N. Y.
 Springfield Machine Tool Co. (14, 18 & 24-inch), Springfield, O.

Stiles Foundry & Supply Co., Parkersburg, W. Va.

Von Wyck Machine Tool Co., Cincinnati, O.
 Walcott & Wood Machine Tool Co. ("16, 18, 22, 24, 32 & 36" inch Swing & 32 & 36 inch Triple Geared), Jackson, Mich.

WALSH'S SONS & CO., Newark, N. J.
 (See adv. index, end of book)

Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.
 Wickes Bros., Saginaw, Mich.

YOUNG MACHINE & TOOL CO., 211 Centre,
 New York, & Worcester, Mass. (See adv. index, end of book)

Lathes (Extension Gap)

Barnes Drill Co. (12-22 inch Sliding), Rockford, Ill.

Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.

Lathes (Face)

(See Patternmakers' Lathes)

Lathes (Facing)

Reed, F. E., Co. (22 & 24 inch Swing), 120 Gold, Worcester, Mass.

Lathes (Foot Power)

Bagshaw & Field, 317 Cherry, Phila., Pa.

Barnes, B. F. Co., Rockford, Ill.

Barnes, W. F. & John Co., Rockford, Ill.

Carroll-Jamieson Machine Tool Co. (9 by 25), Batavia, O.

Davis, W. P. Machine Co., Rochester, N. Y.

Garvin Machine Co., 137 Varick, New York

Mann, Chas. A., 166 Doyle av., Providence, R. I.

Niles-Bement-Pond Co., 111 B'way, New York

Prentice Bros. Co., Worcester, Mass.

Purdy Machine Co. (9 & 10 Swing), Ghent, O.

Quackenbush, H. M., Herkimer, N. Y.

Reed, F. E. Co. (Plain & Screw Cutting), Worcester, Mass.

Sebastian Lathe Co., Covington, Ky.

Seneca Falls Mfg. Co. ("Star"), Seneca Falls, N. Y.

Shepard Lathe Co. (Turret), 129 W 2d, Cincinnati, O.

YOUNG MACHINE & TOOL CO., 211 Centre,
 New York, & Worcester, Mass. (See adv. index, end of book)

Lathes (Forging)

(See Lathes, Engine)

Lathes (Forming)

Dreses Machine Tool Co., Cincinnati, O.
 Meriden Machine Tool Co., Meriden, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Reed, F. E. Co. (16 inch Swing), Worcester, Mass.

Lathes (Fox Monitor)

(See Lathes, Brass Finishers')

Lathes (Gap)

(See Lathes, Engine)

Lathes (Gauge)

American Woodworking Machinery Co., Rochester, N. Y., West st. bldg., New York

Bentel & Magedant Co., Hamilton, O.

Fay & Scott, Dexter, Me.

Goodspeed Machine Co., Winchenden, Mass.

Novelty Iron Works (G. E. Davis, Prop.), Dubuque, Ia.

Smith, H. B. Machine Co. (Brown & Howe's Automatic), Smithville, N. J., & 121 Liberty, New York

Trevor Mfg. Co., Lockport, N. Y.

Yerkes & Finan Wood Working Machine Co., St. Louis, Mo.

Lathes (Granite Column)

(See Machinery, Stone Polishing)

Lathes (Granite Polishing)

(See Machinery, Stone Polishing)

Lathes (Grinding)

Pratt & Whitney Co., Hartford, Conn.

Storey General Electric Co., Trenton, N. J.

Lathes (Gun Turning & Boring)

(See also Gun Barrel Turning Machines)

Johnson, Israel H., Jr., Co., Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York

Phila. Roll & Machine Co., S 23d & Washington av., Phila., Pa.

Pratt & Whitney Co., Hartford, Conn.

Sellers, Wm., & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Lathes (Hand)

Brown & Sharpe Mfg. Co., Providence, R. I.

Diamond Machine Co. (Lever & Screw Feed), Providence, R. I.

Dresses Machine Tool Co., Cincinnati, O.
 Fitchburg Machine Works, Fitchburg, Mass.
 Garvin Machine Co., 137 Varick, New York
 Johnson, Israel H., Co., Phila., Pa.
 Mann, Chas. A., 166 Doyle av, Providence, R. I.

Meriden Machine Tool Co., Meriden, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Oliver, W. W., Mfg. Co. (Foot & Power), 1483
 Niagara, Buffalo, N. Y.
 Pratt & Whitney Co., Hartford, Conn.
 Reed, E. E. (9 to 26 inch Swing), Worcester, Mass.
 Seneca Falls Mfg. Co. ("Star," Foot & Power), Seneca Falls, N. Y.
 Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Lathes (Handle Turning)

(See also Lathes, Wood Turning)

American Wood Working Machinery Co., Rochester, N. Y., West St bldg, New York
 Bentel & Margedant Co., Hamilton, O.
 Bradley, H. C., Bridgeport, Conn.
 Defiance Machine Works ("Chaplin Automatic"), Defiance, O.

Empire Machine Works, Mount Morris, N. Y.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Gerlach, Peter Co. (Automatic for Turning & Boring for Rail, Fire & Other Short Handles), Columbus rd & Winter, Cleveland, O.
 Kline, Lewis T. (Automatic Broom Handle, etc.), Alpent, Mich.

Klotz Machine Co., Sandusky, O.
 Leland, Frank J., Knoxville, Tenn.
 Loetzer Valve & Mfg. Co. ("Booth" Automatic), Monroeton, Pa.
 Ober Mfg. Co., Chagrin Falls, O.
 Pringle & Brodie Machinery Co., 277 S Canal, Chicago, Ill.
 Seymour & Whitlock, Newark, N. J.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Trevor Mfg. Co., Lockport, N. Y.
 Waymoth, A. D. & Co., Fitchburg, Mass.
 Wilder, Chas. W. (Auger, Paint Brush, File, etc.), Fitchburg, Mass.

Lathes (Hard Rubber)

Adamson, A., Akron, O.

Lathes (Ingot)

(See Lathes, Engine)

Lathes (Insulator)

Defiance Machine Works (Turning & Threading), Defiance, O.
 Trevor Mfg. Co. (Turning & Threading), Lockport, N. Y.

Lathes (Jar Ring)

Adamson, Alex., Akron, O.
 Birmingham Iron Foundry (Automatic), Derby, Conn.
 Thropp, Wm. R. (Automatic), Trenton, N. J.
 Thropp's, Jno. E. Sons Co., Trenton, N. J.

Lathes (Knurling)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Lathes (Last)

Defiance Machine Works, Defiance, O.
 Gilman & Son, Springfield, Vt.
 Kimball Bros. & Spragne (Blocks & Turning), Brockton, Mass.

Lathes (Manual Training)

Hobbs Mfg. Co., Worcester, Mass.
 Oliver Machinery Co., Grand Rapids, Mich.
 Reed, F. E. Co. (Wood Turning), Worcester, Mass.
 Seneca Falls Mfg. Co. ("Seneca Falls"), Seneca Falls, N. Y.
 Sheldon, E. H., & Co. (Bench & Speed), 84 N May, Chicago, Ill.

Lathes (Marble Turning)

(See Lathes, Stone)

Lathes (Metal Spinning)

(See Lathes, Spinning)

Lathes (Monitor)

(See Lathes, Turret)

Lathes (Neck-Yoke & Single-trees)

Trevor Mfg. Co., Lockport, N. Y.

Lathes (Optical Grinding)

Carr, Jos. (Also Discs), 132 N 7th, Phila., Pa.
 Cataract Tool & Optical Co., Buffalo, N. Y.

Lathes (Pattern Makers')

American Wood Working Machinery Co., Rochester, N. Y., West St bldg, New York
 Atlantic Works, Philadelphia, Pa.
 Bentel & Margedant Co., Hamilton, O.
 Blount, J. G. Co. (Set-Over Swivel Tailstock, etc.), Everett, Mass.
 Cordesman, Rehtin, Co., Cincinnati, O.
 Dennis Machine Co., Jackson, Mich.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Fay & Scott, Dexter, Me.
 Fitchburg Machine Works, Fitchburg, Mass.
 Fox Machine Co., Grand Rapids, Mich.
 Frank Machinery Co., Buffalo, N. Y.
 Greaves, Klusman & Co., Cook & Alford, Cincinnati, O.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

National Machine Works, Milwaukee, Wis.
 New Haven Mfg. Co., New Haven, Conn.
 Oliver Machinery Co. (Face), Grand Rapids, Mich.
 Porter, C. O. & A. D. ("Porter"), Grand Rapids, Mich.
 Putnam Machine Co., Fitchburg, Mass.
 Rogers, C. B. & Co., Norwich, Conn.
 Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

Lathes (Pearl Button Turning)

Hess Machine Works, 2512 Callowhill, Philadelphia, Pa.

Lathes (Photo-Engravers')

Royle, Jno. & Sons (Inc.), Paterson, N. J.

Lathes (Polishing)

(See Lathes, Buffing & Polishing)

Lathes (Precision)

(See also Lathes, Watchmakers)

American Watch Tool Co. (Screw Cutting), Waltham, Mass.
 Faneull Watch Tool Co. (The Rivett), Brighton, Boston, Mass.
 Massachusetts Tool Co., Greenfield, Mass.
 Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
STARK TOOL CO. ("Stark," Bench), Waltham, Mass. (See adv. index, end of book)
WALTHAM MACHINE WORKS (Bench), (See adv. index, end of book)

Lathes (Projectile Boring & Turning)

(See Lathes, Gun Turning & Boring)

Lathes (Pulley Turning)

American Tool Works Co., Cincinnati, O.
 Cincinnati Pulley Machinery Co. ("Streit"), Cincinnati, O.
 Fay Machine Tool Co., 2d & Glenwood av, Phila., Pa.
 New Haven Mfg. Co., New Haven, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Prentice Bros. Co., Worcester, Mass.
 Putnam Machine Co., Fitchburg, Mass.
 Streit, A. Machine Co., 309 W 2d, Cincinnati, O.

Lathes (Rake Handle)

(See Rake Handle Machinery)

Lathes (Roll Engraving)

Gould & Eberhardt, Newark, N. J.

Lathes (Roll Polishing)

Gould & Eberhardt, Newark, N. J.

Lathes (Roll Turning)

(See also Machinery, Rolling Mill)

Gould & Eberhardt, Newark, N. J.
 Lewis Foundry & Machine Co., Coraopolis, Pa.
 Mesta Machine Co., Lewis blk, Pittsburgh, Pa.
 Morgan Construction Co., Worcester, Mass.
 Phila. Roll & Machine Co., S 23d & Washington av, Phila., Pa.
 Phillips & McLaren, 24th & Smallman, Pittsburgh, Pa.
 Scaife Foundry & Machine Co., Pittsburgh, Pa.
 Sellers, Wm., & Co. (Inc.), 1600 Hamilton, Phila., Pa.
 Trethewey, Samuel, & Co., Pittsburgh, Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburgh, Pa.

Lathes (Roughing)

Schumacher & Boye, 2245 Spring Grove, av, Cincinnati, O.
 United Engineering & Foundry Co., 54th & A. V. R'y, Pittsburgh, Pa., & Youngstown, O.

Lathes (Screw Cutting)

(See also Lathes, Engine; also Lathes, Turret; also Screw Machines)

American Tool Works Co. (Screw-Cutting Engine), Cincinnati, O.
 American Watch Tool Co. (Precision), Waltham, Mass.
 Anderson Silk Co., Cincinnati, O.
 Automatic Machine Co. (Automatic for Worms & Screws), Bridgeport, Conn.
 Barker & Chord Machine Tool Co., Cincinnati, Ohio
 Barnes, B. F. Co., Rockford, Ill.
 Barnes, W. F. & John Co., Rockford, Ill.
 Blaisdell & Co. (High Speed), Worcester, Mass.
 Bradford Machine Tool Co., 671 Evans, Cincinnati, O.

Bridgeford, Chas., Rochester, N. Y.
 Carroll-Jameson Machine Tool Co. (9 Inch Back Gearing), Batavia, O.

Davls, W. P. Machine Co., Rochester, N. Y.
 Detrick & Harvey Machine Co., Baltimore, Md.
 Draper Machine Tool Co., Worcester, Mass.
 Fay & Scott, Dexter, Me.
 Fish, H. C. Machine Works, Worcester, Mass.
 Fitchburg Machine Works, Fitchburg, Mass.
 Flather & Co., Nassau, N. H.
 Greaves, Klusman & Co., Cincinnati, O.
 Hamilton Machine Tool Co., Hamilton, O.
 Harrington, E. Son & Co., Philadelphia, Pa.
 Hendey Machine Co., Torrington, Conn.
 Johnson, Eugene E., Worcester, Mass.
 Johnson, Israel H., Jr., Co., Philadelphia, Pa.
 Le Blond, R. K. Machine Tool Co., Cincinnati, O.
 Lodge & Shipley Machine Tool Co., 3055 Cole-rain av, Cincinnati, O.

McCabe, J. J., 14 Dey, New York
 Mann, Chas. A., Providence, R. I.
 New Haven Mfg. Co., New Haven, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Perkins, F. S. Co., Lowell, Mass.
 Pittsburgh Machine Tool Co., Allegheny, Pa.
 Reed, F. E. Co. (Foot Power), Worcester, Mass.
 Sebastian Lathe Co. (Foot), Covington, Ky.
 Sellers, Wm. & Co. (Inc.), (Single Turning & Screw Cutting), 1600 Hamilton, Phila., Pa.
 Seneca Falls Mfg. Co. ("Star," Foot), Seneca Falls, N. Y.

STARK TOOL CO. ("Stark," Chasing), Waltham, Mass. (See adv. index, end of book)

YOUNG MACHINE & TOOL CO., 211 Centre, New York, & Worcester, Mass. (See adv. index, end of book)

Lathes (Shaft Turning)

American Tool Works Co., Cincinnati, O.
 Brightman Mfg. Co., Shelby, O.
 Fitchburg Machine Works, Fitchburg, Mass.
 Johnson, Israel, Jr., Co., Philadelphia, Pa.
 Le Blond, R. K., Machine Tool Co., Cincinnati, O.
 Niles-Bement-Pond Co., 111 B'way, New York
 Putnam Machine Co., Fitchburg, Mass.
 Springfield Machine Tool Co., Springfield, O.
 Tindel-Morris Co. (Crank-Shaft, etc.), Eddy-stone, Pa., & Ellwood City, Pa.

Lathes (Shoe Last Turning)

(See Lathes, Last)

Lathes (Speed)

American Woodworking Machinery Co., Rochester, N. Y.
 Blount, J. G. & Co., Everett, Mass.
 Carroll-Jamieson Machine Tool Co., Batavia, O.
 Cbickering, W. F., Worcester, Mass.
 Diamond Machine Co., Providence, R. I.
 Fay & Scott, Dexter, Me.
 Fitchburg Machine Works, Fitchburg, Mass.
 Garvin Machine Co., 137 Varick, New York
 Grant Mfg. & Machine Co. (Spencer), Bridgeport, Conn.
 Grabo, E. O. (For Brass, etc.), 180 Centre, New York
 Grimes & Harris, Leominster, Mass.
 Kldder, R. E., 2 Hermon, Worcester, Mass.
 Manning, Maxwell & Moore (Lever & Screw-Feed), 85 Liberty, New York
 Moline Tool Co. ("Moline"), Moline, Ill.
 National Machine Co., Milwaukee, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Oliver Machinery Co. (For Wood), Grand Rapids, Mich.
 Oliver, W. W. Mfg. Co. (Jewelers), 1483 Niagara, Buffalo, N. Y.
PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Sebastian Lathe Co., Covington, Ky.
 Seneca Falls Mfg. Co. ("Seneca Falls"), Seneca Falls, N. Y.
 Snyder & Metcalf, Waterford, N. Y.
 Spencer, J. E., Bridgeport, Conn.
 Wasburn Shops of the Polytechnic Institute, Worcester, Mass.
 Wells, F. E. & Son Co., Greenfield, Mass.
 Whitcomb-Blaisdell Machine Tool Co. (High Speed), Worcester, Mass.

Lathes (Spinning)

Blake & Johnson Co., Waterbury, Conn.
BLISS, E. W. Co., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)
 Diamond Machine Co., Providence, R. I.
 Ferracute Machine Co., Bridgeton, N. J.
 Garvin Machine Co., 137 Varick, New York
 Good Mfg. Co., N. Jefferson & Fulton, Chicago, Ill.
 Grabo, E. O., 180 Centre, New York
 Greaves, Klusman & Co., Cook & Alfred, Cincinnati, O.
 Hibbard, Wm. H. Mfg. Co., 79 Wash'n, Brooklyn, N. Y.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Meriden Machine Tool Co., Meriden, Conn.
NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Prybil, P. (Estate of), 514 W 41st, New York
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Lathes (Spoke)

(See also Lathes, Handle Turning; also Lathes, Wood Turning)

Bentel & Margedant Co., Hamilton, O.
 Defiance Machine Works, Defiance, O.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Humphrey Machine Co., Kerne, N. H.
 Ober Mfg. Co., Chagrin Falls, O.
 Trevor Mfg. Co., Lockport, N. Y.

Lathes (Spool)

(See Spool & Bobbin Machinery)

*Lathes (Staff)

STARK TOOL CO. ("Stark," Automatic for Turning Staffs & Pinions for Clocks, Watches, etc.), Waltham, Mass. (See adv. index, end of book)

Lathes (Stone Polishing)

Ellison Bros., Frankford, Philadelphia, Pa.
 Hinds, Thomas, Malone, N. Y.
 Lincoln Iron Works, Rutland, Vt.
 Patch, F. R. Mfg. Co., Rutland, Vt.
 Putnam Machine Co., Fitchburg, Mass.
 Scoville, H. H. & Co., 1088 Wilcox av, Chicago, Ill.

*Lathes (Stove Mounters')

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Lathes (Strapping)

Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
 Springfield Mfg. Co., Bridgeport, Conn.

Lathes (Treenail)

Trevor Mfg. Co., Lockport, N. Y.

Lathes (Trimming)

Hibbard, Wm. H. Mfg. Co., 79 Wash'n, Brooklyn, N. Y.
 Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Lathes (Turret)

(See also Screw Machines)

American Tool Works Co., Cincinnati, O.
 American Tool & Machine Co. (Brass Finishers), 109 Beach, Boston, Mass.
 Bardons & Oliver (All Kinds), 1133 W. 9th, Cleveland, O.
 Bullard Machine Tool Co. (Vertical & Combination Turret), Bridgeport, Conn.
 Carroll-Jamieson Machine Tool Co. (14 inch Back Geared), Batavia, O.
 Carter & Hakes Machine Co. ("Blood" Automatic), Winsted, Conn.
 Dreser Machine Tool Co. (Universal), Cincinnati, O.
 Fay & Scott, Dexter, Me.
 Foster-Kimball Machine Co. (Or Screw Cutting Machines), Elkhart, Ind.
 Garvin Machine Co., 137 Varick, New York
 Gilsholt Machine Co. (For Both Bar & Chucked Work), Madison, Wis.
 Hendey Machine Co. (For Eugene), Torrington, Conn.
 International Machine Tool Co. ("Libby"), Indianapolis, Ind.
 Jones & Lamson Machine Co., Springfield, Vt.
 Lodge & Shipley Machine Tool Co., 3055 Cole rain av., Cincinnati, O.
 Manning, Maxwell & Moore, 85, 87 & 89 Liberty, New York
 Massey Machine Co. ("Ring," Turret), Watertown, N. Y.
 Meriden Machine Tool Co., Meriden, Conn.
 National Machine Co., Milwaukee, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Potter & Johnston Machine Co. (Double Turret Manufacturing), Pawtucket, R. I.
 Pratt & Whitney Co., Hartford, Conn.
PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Rahn-Carpenter Co., Anderson, Ind.
 Reed, F. E. Co. (22 to 24-inch Swing), Worcester, Mass.
 Shepard Lathe Co., Cincinnati, O.
 Springfield Machine Tool Co., Springfield, O.
 Steinhil Turret Machine Co. (Full Swing), Madison, Wis.
 Walcott & Wood Machine Tool Co. ("22x24-inch," will set over Turret on Shears), Jackson, Mich.
 Warner & Swasey Co., Cleveland, O.
 Windsor Machine ("Gridley" Multiple Spindle Automatic), Windsor, Vt.
 Wood Turret Machine Co. Terre Haute, Ind.
YOUNG MACHINE & TOOL CO., 211 Centre, New York, & Worcester, Mass. (See adv. index, end of book)

Lathes (Variety Turning)

Bentel & Margedant Co., Hamilton, O.
 Bradley, H. C., Bridgeport, Conn.
 Cowdrey, C. H., Machine Works, Fitchburg, Mass.
 Kline, Lewis T. (Automatic), Alpena, Mich.
 Ober Mfg. Co., Chagrin Falls, O.
 Pringle & Brodie Machinery Co., 277 S. Canal, Chicago, Ill.
 Waymouth, A. D. & Co. (Self-Centering & Self-Adjusting, etc.), Fitchburg, Mass.
 Wilder, Chas. W. (For Small Turnings of All Kinds), Fitchburg, Mass.

Lathes (Veneer)

Coe Mfg. Co., Painesville, O.
 Merritt Mfg. Co., Lockport, N. Y.

Lathes (Watchmakers')

(See also Lathes, Precision)

American Watch Tool Co. ("Webster-Whitcomb"), Waltham, Mass.
 Fanuell Watch Tool Co., 1 Brooks, Boston, Mass.

Hardinge Bros., 1036 Lincoln av, Chicago, Ill.
 Moseley Lathe Co., Elgin, Ill.

Rivett Lathe Mfg. Co., Brighton, Mass.
STARK TOOL CO. ("Stark"), Waltham, Mass. (See adv. index, end of book)
WALTHAM MACHINE WORKS, Waltham, Mass. (See adv. index, end of book)
 Waltham Watch Tool Co., Springfield, Mass.

Lathes (Winding)

Pittsburg Machine Tool Co., Allegheny, Pa.
 Sommerfeld Machine & Mfg. Co. (For Winding Colls), 220 2d av, Pittsburg, Pa.

Lathes (Wood Polishing)

Bradley, H. C., Bridgeport, Conn.

Lathes (Wood Pulley)

(See Wood Pulley Machinery)

Lathes (Wood Working)

American Sawmill Machinery Co., 50 Church, New York; Works: Hackettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
 Artistic Wood Turning Works, 67 N Sangamon, Chicago, Ill.
 Atlantic Works (Inc.), 28th & Grays Ferry rd, Phila., Pa.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Barnes, W. F. & John Co., Rockford, Ill.
 Bentel & Margedant Co. (Spokes, Handles, etc.), Hamilton, O.
 Cadillac Motor Car Co., Detroit, Mich.
 Carey, W. W., Lowell, Mass.
 Carroll-Jamieson Machine Tool Co., Batavia, O.
 Cordesman, Reichtin Co., 25 Butler, Cincinnati, O.
 Cordesman, Meyer & Co., 53 Central av., Cincinnati, O.
 Cowdry, C. H., Machine Works (Variety Turning), Fitchburg, Mass.
 Defiance Machine Works, Defiance, O.
 Fay, J. A. & Egan Co., Front c. John, W. Cincinnati, O.
 Fay & Scott, Dexter, Me.
 Frank Machinery Co., Buffalo, N. Y.
 Grammes, L. F. & Sons (All Kinds), Allentown, Pa.
 Greaves, Klusman & Co., Cook & Alfred, Cincinnati, O.
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, B. B. Machinery Co., Buffalo, N. Y.
 National Machine Co., Milwaukee, Wis.
 New Haven Mfg. Co., New Haven, Conn.
 Ober Mfg. Co., Chagrin Falls, O.
 Oliver Machinery Co., Grand Rapids, Mich.
 Porter, C. O. & A. D., Grand Rapids, Mich.
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Pringle & Brodie Machinery Co. (Back Knife Variety Turning), 277 S. Canal, Chicago, Ill.
 Prybil, Paul (Est. of), 512 W 41st, New York
 Purdy Machine Co., Ghent, O.
 Sebastian Lathe Co., Covington, Ky.
 Seneca Falls Mfg. Co. ("Seneca Falls"), Seneca Falls, N. Y.
 Sidney Tool Co. ("Defiance"), Sidney, O.
 Smith H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Steggall, A., Owosso, Mich.
 Trevor Mfg. Co. (Turnings up to 8 inches), Lockport, N. Y.
 Waymouth, A. D. & Co. (Variety, etc.), Fitchburg, Mass.
 Wilder, Chas. W., Fitchburg, Mass.

Lathes (Worm Threading)

Automatic Machine Co. (Automatic), Bridgeport, Conn.

Lathes (Yacht Spar)

Trevor Mfg. Co., Lockport, N. Y.

Lathes (Zinc)

Midland Foundry & Machine Works Co., 2156 15th, Denver, Colo.
 Pacific Tank Co. (For Cutting Zinc Shavings), Los Angeles, Cal.

Laughing Galleries

Ingersoll Construction Co., Pittsburg, Pa.

Launches

(See Motor Boat, Launch & Yacht Builders)

Laundry Dryers

(See also Clothes Dryers)

Adams Laundry Machinery Co., 1935 6th av.
Troy, N. Y.
Chicago Dryer Co., 381 Wabash av. Chicago.
Dryer Mfg. Co., 204 E. 26th, New York Ill.
Hill-Canton Dryer Co., Canton, Ohio
Mannen & Esterly Co. ("Manest"), 2247 St
Clair, Cleveland, O.
Metal Fire Proof Clothes Dryer Co., 534 W
58th, New York
Steel Roll Machine Co., 254 E Madison, Chi-
cago, Ill.

Laundry Ironing Stoves

(See Stoves, Laundry)

*Laundry Irons (Electric)

GENERAL ELECTRIC CO., Schenectady,
N. Y., & 30 Church, New York. (see adv.
Index & branch offices, end of book)

Laundry Machinery

(See Machinery, Laundry)

Laundry Tub Covers

Greason Mfg. Co. (Galvanized Iron), 108 W
99th, New York

Laundry Tubs (Artificial Stone)

Adams, E. G., Kingston, N. Y.
Anchor Stone Laundry Tray Co., 2920 Lyndale
av. S. Minneapolis, Minn.
Chicago Granite Mfg. Co. ("Granitine"),
3224 Shields av, Chicago, Ill.
Hardin, Jno. 4543 Cottage Grove av, Chicago.
Ill.
Hardin, Jno., 4543 Cottage Grove av, Chicago,
Ill.
Peerless Granite Co., Weehawken, N. J.
Reilly, J. F. & Co. ("Star" Cement), San
Francisco, Cal.
Robinson Stoneware Co., 244 Greenpoint av,
Brooklyn, N. Y.
Union Granite Co., Weehawken, N. J.
Weehawken Granite Co., Town of Union, N. J.
Wesley, Chas ("Economy," Stoneware), 3122
S Canal, Chicago, Ill.

*Laundry Tubs (Concrete)

AMERICAN CONCRETE CO., 80 William,
New York. (See adv. index, end of book)

Laundry Tubs (Enameled Iron)

(See Bath Tubs, Enameled Iron)

Laundry Tubs (Euclid Stone)

Norcross Co., 1264 Riverbed, Cleveland, O.

Laundry Tubs (Glazed Fire Clay)

Gladding, McBean & Co., Crocker bldg, San
Francisco, Cal.
Stelger Terra Cotta & Pottery Works, San
Francisco, Cal.

Laundry Tubs (Porcelain)

(See Bath Tubs, Porcelain)

Laundry Tubs (Slate)

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Auld, Conger & Co., Cleveland, O.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Caskie, Samuel, Walcuttport, Pa.
Chicago Slate & Mantel Co., 232 S. Clinton
Chicago, Ill.
Cleveland Mantel & Tile Co., 1426 E 30th
Cleveland, O.
Connolly, P. (Slate Lined), 1154 Atlantic av.
Brooklyn, N. Y.
East Bangor Consolidated Slate Co., Bangor,
Pa.
Fair Haven Marble & Marbleized Slate Co.,
Fair Haven, Vt.
Hahn, Granville, Walcuttport, Pa.
Huey, Patrick, Hydeville, Vt.
Illinois Marble Co., Edwardsville, Ill.
McKenna, David, Slattington, Pa.
Mendowbrook Slate Co., Slattington, Pa.
Monson Consolidated Slate Co., Bath, Me.

Monson Malne Slate Co., 113 Devonshire, Bos-
ton, Mass.
New York Slate Works, 493 E. 138th, New
York
North Bangor Slate Co., Bangor, Pa.
O'Day Bros., Hydeville, Vt.
Outalannee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Pottstown, Pa., and
Wind Gap, Pa.
Penna Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Phoenix Slate Co., Windgap, Pa.
Provident Slate Co., Slattington, Pa.
Seotch Hill Slate Co., Fair Haven, Vt.
Slattington Slate Co., Slattington, Pa.
Union Soapstone Co., 14 Marshall, Boston, Mass.
Williams Slate Co., Arvonia, Va.
Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.

Laundry Tubs (Soapstone)

Alberene Stone Co., 223 E 23d, New York
Butler, Philip H. & Co., 25 Haverhill, Boston.
Mass.
Clow, Jas. B. & Sons, 342 Franklin, Chicago,
Ill.
Connolly, P., 1154 Atlantic av, Brooklyn, N. Y.
Illinois Marble Co., Edwardsville, Ill.
National Soapstone Co., 385 1st av, New York
Phoenix Soapstone Co., 7 Warren, New York
Piedmont Soapstone Co., 55 Congress, Boston,
Mass.; Works: Asbestine, Va.
Pierce, Butler & Pierce Mfg. Co., Syracuse,
N. Y.
Robinson Stoneware Co., 244 Greenpoint av,
Brooklyn, N. Y.
Troy Bros. & Co., 91 Haverhill, Boston, Mass.
Union Soapstone Co., 14 Marshall, Boston, Mass.
Virginia Soapstone Co., Schupler, Va., & 86
Lincoln av, New York
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Lava

American Lava Co. ("Alco"), Chattanooga,
Tenn.
Jrescent Burner Mfg. Co., 339 B'way, New
York
Steward, D. M. Mfg. Co. ("Lavite"), Chat-
tanooga, Tenn.

Lavatories (Ship)

Bishop, Wm. Sons, 205 South, New York
Curtiss Co., 67 Gold, New York
Hodgdon Brass Works, 162 11th, Boston, Mass.
Sands, Alfred B. & Son Co., 242 Water, New
York
Webb, F. W. Mfg. Co., Boston, Mass.

Lavatories & Fittings

Adee, Fred. Co., 44 Cliff, New York
Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Barrett, James Mfg. Co., 211 Franklin, Boston
Mass.
Cahill Iron Works ("Southern Beauty,"
"Enameled Iron"), Chattanooga, Tenn.
Chambers & Co., Newark, N. J.
Clow, James B., & Sons, 344 Franklin, Chi-
cago, Ill.
Cooper, Wm. S., Brass Works, 437 N. 12th,
Phila., Pa.
Dalton-Ingersoll Co., 175 High, Boston, Mass.
Detroit Sanitary Supply Co., Detroit, Mich.
Douglas, John Co., Cincinnati, O.
Edwardsville Brass Co., Edwardsville, Ill.
Exeter Brass Works, Exeter, N. H.
Federal-Huber Co., Halsted & Fulton, Chi-
cago, Ill., & 244 5th av, New York
Fort Pitt Supply Co., 332 2d av, Pittsburg, Pa.
Great Western Pottery Co. ("K. T." Vitreous
China), Kokomo, Ind.
Haines, Jones & Cadbury Co., 1136 Ridge av,
Phila., Pa.
Humphries Mfg. Co. (Enameled Iron), Mans-
field, O.
Kohler, J. M., Sons Co. (Enameled Iron Lava-
tories), Sheboygan, Wis.
McCambridge & Co. (Ltd.), 315 N 20th, Phila-
delphia, Pa.
McCrum-Howell Co., 103 Park av, New York
McVay & Walker, Bradlock, Pa.
Manufacturing, Equipment & Engineering Co.
(Individual Range, Wash Bowls, Plain Iron
Galvanized or Vitreified Porcelain Enamel),
209 Washington, Boston, Mass.
Maryland Foundry Co. (Enameled Iron), Balti-
more, Md.
Mott, J. L., Iron Works, 118 5th av, New York
Mueller, H. Mfg. Co., Decatur, Ill.
National Sanitary & Mfg. Co. (Enameled
Iron), Salem, O.
Nelson, N. O., Mfg. Co., St. Louis, Mo.
Newell Brass Mfg. Co., 445 N Broad, Phila-
delphia, Pa.

Peck Bros. & Co., New Haven, Conn.
Pierce, Butler & Pierce Mfg. Co. (Solid Vit-
reous and Porcelain Enameled), Syracuse,
N. Y.
Pittsburg Brass Mfg. Co., Allegheny, Pa.
Rundle Mfg. Co., Milwaukee, Wis.
Rundle-Speuce Mfg. Co., 67 2d, Milwaukee,
Wis.
Smith & Anthony Co., 48 Union, Boston, Mass.
Standard Sanitary Mfg. Co., Bessemer bldg,
Pittsburg, Pa.
STEIN, HENRY, 48 Cliff, New York.
(See adv. index, end of book)
Watrous Co. ("Watrous," White Metal Lava-
tory Fittings), Fisher bldg, Chicago, Ill.
Wheeling Enameled Iron Co. (Enameled Iron
Lavatories), Wheeling, W. Va.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Lavatory Legs

American Pin Co. (Brass), Waterbury, Conn.
Climax Specialty Co., Elmira, N. Y.
Clow, Jas. B. & Sons, Chicago, Ill.
Du Bois, F. N., 342 9th av, New York
Edwardsville Brass Co., Edwardsville, Ill.
Haines, Jones & Cadbury Co., 1136 Ridge av,
Phila., Pa.
Illinois Malleable Iron Co., 515 Diversey boul,
Chicago, Ill.
McCambridge & Co., Ltd., 315 N 20th, Philadel-
phia, Pa.
Mott, J. L., Iron Works, 118 5th av, New
York
Mullaney's, Jas. Son (Brass Basin), 25th &
Lexington av, New York
Mullaney's, Jas., Son (Brass Basin), 25th &
Lexington av, New York
Newell Brass Mfg. Co., 445 N Broad, Phila-
delphia, Pa.
Ohio Brass & Iron Mfg. Co., Cleveland, O.
Pittsburg Brass Mfg. Co., Allegheny, Pa.
Sanitary Co. ("Paragon" Brass), Cleveland, O.
Victor Excelsior Brass Works ("Nickel
Plated"), 128 White, N. Y.
Warren Brass Co., Warren, O.
Wolverine Brass Works, Grand Rapids, Mich.

Lavatory Spring Hinges

BOMMER SPRING HINGES

257 to 271 Classon av, Brooklyn, N. Y. (See
adv. index, end of book)
Chicago Spring Butt Co., 491 Carroll av, Chi-
cago, Ill.

Lavatory Trimmings

Climax Specialty Co., Elmira, N. Y.
Edwardsville Brass Co., Edwardsville, Ill.
Hess, Chas. Co (For Export), 129 Front, New
York
Park & McKay Co., Detroit, Mich.

Lawn Furniture

(See Fountains, Vases, Etc.; also Settees &
Chairs, Iron; also Settees & Chairs, Lawn;
also Rustic Wood Work; also Swings, Lawn)

Lawn Mower Mfrs.

American Die & Tool Co. ("Ame"), Ball Bear-
ing Reel & Roller Bearing Wheel, Reading,
Pa.
American Lawn Mower Co. ("Favorite," "Ad-
vance," "Yale," "Columbia," Ball Bearing),
Muncie, Ind.
Avery, B. F. & Sons (The Dewey & Success),
Louisville, Ky.
Blair Mfg. Co. (Lawn Mowers' "Easy" Parallel
Bearings, with cut borders, mounds, close
to walls, fences, etc., "Cyclemower," "Her-
cules," "Bay State," "Victor," "Mohawk,"
"Grand Universal," "Giant Universal,"
"High Wheel Universal," "Universal" all
ball or parallel bearings, "Yankee" Parallel
bearings only), Springfield, Mass.
Braun, Jno. & Sons, 1615 N 23d, Phila., Pa.
Chadborn & Caldwell Co. ("New Model,"
"Rival," "O. K.," "Excelsior," "Roller Golf,"
"Royal Blue" & "Lenox" Ball Bearing,
"Invincible"), Newburgh, N. Y.
Clipper Lawn Mower Co. ("Clipper" Hand &
Pony, Cuts Grass Any Height), Dixon, Ill.
Coldwell Lawn Mower Co. ("Lakewood," "Im-
perial"), Newburgh, N. Y.
Dille & McGuire Mfg. Co. (McGuire Ball Bear-
ing), Richmond, Ind.
Eclipse Lawn Mower Co. ("Eclipse" & Self-
Sharpening), Probstetown, Ill.
Elwood Lawn Mower Co., Elwood, Ind.
Enterprise Mfg. Co. ("Enterprise"), 3d & Dau-
phn, Phila., Pa.

F. & N. Lawn Mower Co. ("F. & N."), Richmond, Ind.
 Globe Lawn Mower & Mfg. Co. (Ball Bearing), Reading, Pa.
 Granite State Mowing Machine Co. (Granite State), Hindsdale, N. H.
 Heath Foundry & Mfg. Co., Plymouth, O.
 Hunt, Helm, Ferris & Co. ("Standard," "New Harvard," "Illinois," "Lawn Queen" & "Little Giant"), Harvard, Ill.
 Jewett, H. M., Moravia, N. Y.
 Leavitt Mfg. Co., Urbana, Ill.
 McIntosh Hardware Corp. (Euclid Av.), Ball Bearing, 725 Superior, Cleveland, O.
 Mast Foos & Co. ("Buckeye" Ball Bearing, "Mascot"), Springfield, O.
 Ney Mfg. Co., Canton, O.
 Ohio Wringer Co., Springfield, O.
 Phila. Lawn Mower Co. ("The Philadelphia"), 3107 Chestnut, Phila., Pa.
 Reading Hardware Co. ("Reading"), Reading, Pa.
 Reading Standard Co. ("Standard" Ball Bearing), Reading, Pa.
 Stearns, E. C. & Co. ("Stearns," Ball Bearing), Syracuse, N. Y.
 Supplee Hardware Co. ("Pennsylvania" Ball Bearing, "Continental," "Great American" Ball Bearing, Self Sharpening, "Bellevue" Ball Bearing, "New Quaker," "New Departure," "Girard," "Electric," "Westfield"), 503 Market, Phila., Pa.
 Thomas Mfg. Co., Springfield, O.
 Townsend, S. P. & Co. (Lawn Mowers "Lyon," "Spider," "Victor," "Premier," "Essex," "Orange," "Matchless" All Ball Bearing "Townsend" Chain Roller Mower), Orange, N. J.
WHITMAN & BARNES MFG. CO.
 ("New Diamond," "New Electric," "New Norka," "Columet," "W & B" High Wheel, "W & B" Ball Bearing, "W & B" Junior & "W & B" Automatic Ball Bearing, "Diamond," "Intermediate Gear," "Acme" Ball Bearing, "Bull Dog" Ball Bearing, "Chicago"), Chicago, Ill. (See adv. index & branch offices, end of book)
 Worcester Lawn Mower Co. ("Worcester," "Highland," "Homestead" & "Green Mountain"), Worcester, Mass.

Lawn Mower Mfrs. (Horse)

Chadborn & Coldwell Co. ("New Excelsior"), Newburgh, N. Y.
 Clipper Lawn Mower Co. ("Clipper" Pony, Cuts Grass Any Height), Dixon, Ill.
 Supplee Hardware Co. ("25-Inch Pony & "Pennsylvania" Horse, 30 to 38 inches cut), 503 Market, Phila., Pa.
 Townsend, S. P. & Co. ("Townsend's" Triple Ratehet), Orange, N. J.

Lawn Mower Sharpeners

(See Sharpeners, Lawn Mower)

Lawn Sprinklers

Allen, W. D. Mfg. Co. ("Mayflower"), 151 Lake, Chicago, Ill.
 American Foundry & Mfg. Co. ("Cactus," "Japanese," "Park," "National," "Pacific," "Imperial"), St. Louis, Mo.
 Cleveland Lock Co., 1297 E 38th, N E, Cleveland, O.
DEMING CO. (Lawn & Irrigating),
 Salem, O. (See adv. index, end of book)
 Detroit Lead Pipe & Sheet Lead Works, Detroit, Mich.
 Enterprise Mfg. Co. (Enterprise), 3d & Dauphin, Philadelphia, Pa.
 Forest City Foundry & Mfg. Co. ("Klondyke"), Cleveland, O.
 Haydenville Co., Haydenville, Mass.
 Hays Mfg. Co., Erie, Pa.
 Henderson, Peter, & Co. ("Waterwitch"), 35 Cortlandt, New York
 Humphries Mfg. Co., Mansfield, O.
 Kohler, F. E., & Co., Canton, O.
 Kupferle, John C., Foundry Co., St. Louis, Mo.
 Landers, Frary & Clark ("Crown"), New Britain, Conn.
 Neumeyer, H. F., Maennle, Pa.
 Noera Mfg. Co. ("Noera," "Waterbury"), Waterbury, Conn.
 Novelty Mfg. Co. ("Novelty," Lawn Spray), Waterbury, Conn.
 Phila. Lawn Mower Co., 3107 Chestnut, Phila., Pa.
 Sherman, H. B. Mfg. Co. (Also Rose Sprinklers), Battle Creek, Mich.
 Standard Sheet Metal Co. ("Suburban"), Passaic, N. J.
 Standard Stamping Co. (Fountain), Marysville, Ohio

Stearns, E. C. & Co. ("Stearns," Reversible), Syracuse, N. Y.
TURNER & SEYMOUR MFG. CO. ("Rainbow"), Torrington, Conn. (See adv. index, end of book)
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Westervelt, A. B. & W. T. ("The Hub"), 102 Chambers, New York
 Wilcox Mfg. Co. (Lawn Sprayer & Nozzle), Aurora, Ill.
 Willgus Mfg. Co. ("Willgus"), Los Angeles, Cal.
 Yost Electric Mfg. Co. ("New Century"), Toledo, O.

Lawn Sweepers

Greene Mfg. Co. ("Apollo"), Springfield, O.
 Philadelphia Lawn Mower Co., 3107 Chestnut, Phila., Pa.

*Lead (Antimonial)

LEAVITT, C. W., & CO., 30 Church, New York. (See adv. index, end of book)

Lead Burning Outfits

Storage Battery Supply Co. (For Storage Batteries, etc.), 239 E 27th, New York

Lead Joint Remover

Smith, A. P. Mfg. Co. ("French"), Newark, N. J.

Lead (Lantern)

Chadwick-Boston Lead Co., Boston, Mass.

*Lead (Pig)

(See also Lead Pipe, Sheet & Pig Lead Manufacturers)

LUMEN BEARING CO., Buffalo, N. Y.
 (See adv. index, end of book)

Lead Pipe Couplings & Fittings

Anderson Coupling Co., Portland, Conn.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Illinois Malleable Iron Co., 515 Diversey bou., Chicago, Ill.

Lead Pipe

(See Lead Pipe, Sheet & Pig Lead Manufacturers)

Lead Pipe Former & Sizer

Vanderman Plumbing & Heating Co., Williamantle, Conn.

Lead Pipe, Sheet & Pig Lead Mfrs.

American Metal Co., 52 B'way, New York
 American Smelting & Ref. Co., 165 B'way, New York
 Bailey-Farrell Mfg. Co., 3d & Ross, Pittsburgh, Pa.
 Baker Lead Mfg. Co., Worcester, Mass.
 Blatchford, E. W. Co., 70 N Clinton, Chicago, Ill.
 Bogue Lead Co., 1810 Blake, Denver, Col.
 Brooklyn Metal Works (Inc.), 4th av. & De-graw, Brooklyn, N. Y.
 Bruce & Cook, 190 Water, N. Y.
 Chadwick-Boston Lead Co., Boston, Mass.
 Charleston Lead Works, Charleston, S. C.
 Columbia Smelting & Refining Works, 366 West, New York
 Colwell Lead Co., 109 Lafayette, New York
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crane-Hawley Co., Court, Sycamore & Canal Cincinnati, O.
 Detroit Lead Pipe & Sheet Lead Works, Detroit, Mich.
 Du Bols, Fred'k N., & Co., 243 9th av, New York
 Fleck Bros. Co., 44 N 5th, Philadelphia, Pa.
 Gibson & Price Co., Cleveland, O.
 Granby Mining & Smelting Co., St. Louis, Mo.
 Great Western Smelting & Refining Co., 175 Hendricks Bros., 49 Cliff, New York
 Hendricks Bros., 49 Cliff, New York
 Hoyt Metal Co. (Sheet & Pig Lead Mfrs. Only), St. Louis, Mo. & Perth Amboy, N. J.
 Lang, E. M. Co., Portland, Me.

Lewis, John T. & Bros. Co., 231 S Front, Phila., Pa.
 Mayor, Lane & Co., 128 White, New York
 Millar, Chas., & Son Co., Utica, N. Y.
 National Lead Co., 100 William, New York
 National Lead & Oil Co. (of Pa.), Pittsburg, Pa.
 Nelson, N. O. Mfg. Co., St. Louis, Mo.
 North American Smelting Co., 9th & Thompson, Phila., Pa.
 Penna. Smelting Co., 331 4th av, Pittsburg, Pa.
 Phelps, Dodge & Co., 99 John, New York
 Phillips Lead & Supply Co., Providence, R. I.
 Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.
 Raymond Lead Co., 57 W Lake, Chicago, Ill.
 Read, H. P. Lead Works, 32 Sanford, Brooklyn, N. Y., & 645 Lexington av, New York
 Robertson, Jas., Mfg. Co., 14 S Hanover, Baltimore, Md.
 Rochester Lead Works, Rochester, N. Y.
 Ronalds & Johnson Co. (Lead Pipe Only), 54 Cliff, New York
 Rumsey, L. M. Mfg. Co., 806 N Main, St. Louis, Mo.
 St. Joseph Lead Co., 5 Nassau, New York
 San Antonio Machine & Supply Co., San Antonio, Tex.
 Sandoval Zinc Co., 122 N. Peoria, Chicago, Ill.
 Selby Smelting & Lead Co., San Francisco, Cal.
 Tillinghast, L. H., Supply Co., Providence, R. I.
 Trench, C. S. & Co., 81 Fulton, New York
 Trotter, Nathan & Co., 36 N Front, Philadelphia, Pa.
 United Lead Co., 100 William, New York
 Vogelstein, L. & Co., 100 B'way, New York
 Windsor Mfg. Co., Milwaukee, Wis.

Lead Refiners (Electrolytic)

U. S. Metal Refining Co., 100 B'way, New York

*Lead Refining Plants

ALLIS-CHALMERS CO. (Complete Plants), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Lead (Ribbon)

Chadwick-Boston Lead Co., Boston, Mass.

Lead Traps, Bends & Ferrules

Barry Mfg. Co., Muscatine, Ia.
 Blatchford, E. W. Co., 70 N Clinton, Chicago, Ill.
 Brooklyn Metal Works ("Dranro;" also Combination Bends & Ferrules), 4th av. & De-graw, Brooklyn, N. Y.
 Colwell Lead Co., 109 Lafayette, New York
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Detroit Sanitary Supply Co., Detroit, Mich.
 Du Bols, F. N., & Co., 247 9th av, New York
 King Mfg. Co., Watervliet, N. Y.
 Lewis, Jno. T., & Bros. Co., 231 S Front, Phila., Pa.
 National Lead Co., 100 William, New York
 National Lead & Oil Co. (of Pa.), Pittsburg, Pa.
 Raymond Lead Co., 51 W Lake, Chicago, Ill.
 Robertson, Jas., Mfg. Co., 14 S Hanover, Baltimore, Md.
 Ronalds & Johnson Co. (Traps & Bends Only), 54 Cliff, New York
 Selby Smelting & Lead Co., 416 Montgomery, San Francisco, Cal.
 United Lead Co., 100 William, New York
 Windsor Mfg. Co., Milwaukee, Wis.

Lead (Wedge & Monumental)

Chadwick-Boston Lead Co., Boston, Mass.

Lead Wool

New York Lead Wool Co. (For Calking Pipe Joints, etc.), 93 Nassau, New York
 Raymond Lead Co., 51 W Lake, Chicago, Ill.

Leaders (Cattle)

Covert Mfg. Co., Troy, N. Y.
 Flumason & Beckley Mfg. Co., New Britain, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Smith, Seymour & Son, Oakville, Conn.
 Stearns, E. C. & Co., Syracuse, N. Y.

Leadite for Pipe Joints

Leadite Co. of America, Land Title bldg, Philadelphia, Pa.

Leads (Sounding)

Chadwick-Boston Lead Co., Boston, Mass.
Wilcox, Crittenden & Co., Middletown, Conn.

Leather (Artificial)

Boston Artificial Leather Co. (Morrocollene), Stamford, Conn., & 1 Madison av, New York
Chase, L. C. & Co. ("Standard," for Furniture, Car Seats & Wall Covering), 89 Franklin, Boston, Mass.
Fabrikoid Co., Newburgh, N. Y.
Keratol Co., Newark, N. J.
Leatherole Co. ("Leatherole"), 24 E 22d, New York
Pantasote Leather Co., Passaic, N. J.
QURIDE CO. ("Quride" for Car Seats, etc.), Syracuse, N. Y. (See adv. index, end of book)

Leather (Friction)

(See Leather, Hydraulic & Valve)

Leather (Hydraulic & Valve)

BICKFORD & FRANCIS BELTING Co., 37 Pearl, Buffalo, N. Y. (See adv. index, end of book)
Chicago Rawhide Mfg. Co. ("Krome"), 75 E Ohio, Chicago, Ill.
Cowan, Andrew & Co., 435 W Main, Louisville, Ky.
Ladew, Edw. R. (Est. of), 200 William, New York
National Leather Mfg. Co., Niles, Mich.
Page Belting Co., Concord, N. H.
QURIDE CO. ("Quride"), Syracuse, N. Y. (See adv. index, end of book)

Leather (Mechanical)

Chicago Rawhide Mfg. Co. ("Krome," Water, Oil, Steam & Heat Proof), 75 E Ohio, Chicago, Ill.
Nott, W. S., Co., Minneapolis, Minn.
QURIDE CO. ("Quride"), Syracuse, N. Y. (See adv. index, end of book)

Leather Mechanical Goods

Houghton, E. F. & Co. ("Vici"), 240 W Somerset, Philadelphia, Pa.

Leather (Polishing)

Peckham Mfg. Co., Newark, N. J.

Leather Stuffing Apparatus

Sturtevant, B. F. Co., Hyde Park, Mass.

Leathers (Pump)

Auburn Auto Pump Co., Auburn, N. Y.
Barwood, L. J. Co., Boston, Mass.
Climax Specialty Co., Elmira, N. Y.
Graton & Knight Mfg. Co., Worcester, Mass.
Houghton, E. F. & Co. ("Vici"), 240 Somerset, Phila., Pa.
Mark Mfg. Co., Evanston, Ill.
Norwich Belt Mfg. Co. (Pump Valve), Norwich, Conn.
Nott, W. S., Co., Minneapolis, Minn.
Sherman, H. B. Mfg. Co., Battle Creek, Mich.

Ledgers (Loose Leaf)

(See Loose Leaf Specialties)

Legs (Counter)

Hardware & Woodenware Mfg. Co. (Cast Iron), 693 B'way, New York

Legs (Sink & Wash Tray)

CENTRAL FOUNDRY CO. (Cast Iron), 37 Wall, New York. (See adv. index, end of book)

Cheney, S. & Son, Manlius, N. Y.
Republic Mfg. Co. (Adjustable Sink Leg & Swinging Seat), 123 W Wash'n, Chicago, Ill.

Legs (Urinal)

(See Urinal Fittings & Trimmings)

Lehrs (Glass)

Dixon, H. L., Co., Roslyn, Pa.

Lenses

American Optical Co., Southbridge, Mass.
Bache, Semon & Co., West & Hubert, New York
Corning Glass Works, Corning, N. Y.
Libbey Glass Co., Toledo, O.
Sneath Glass Co. (All Colors), Hartford City, Ind.

Lenses (Eye Glass)

Tilton Optical Co., Tilton, N. H.

Letter Boxes

(See Boxes, Mail or Letter)

Letters (Cut Glass)

Herrlein & Henrich Co., 97 Hudson, New York

Letters (Metallic)

(See Numbers & Letters, Metal)

Letters (Porcelain Sign)

Colonial Sign & Insulator Co. (For Electric Signs), Akron, O.

Letters (Sign)

Metallic Sign Letter Co. (Metallic), 58 N Clark, Chicago, Ill.

Letters (Sign, Cast Iron)

Benfield & Milne Mfg. Co., Newark, N. J.
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
Brown & Sharpe Mfg. Co. (Up to 5 feet high), Providence, R. I.
Ziegler Bros. (Removable Metallic) Elgin, Ill.

Letters (Transfer)

Meyercord Co. (Inc.), Chamber of Commerce bldg, Chicago, Ill.
Palm Letter Co., 313 Hammond, Cincinnati, O.

Letters (Wood)

Spanjer Bros. (For Signs), Newark, N. J.

***Letters & Figures (House)**

AMERICAN RAILWAY SUPPLY CO., 26 Park pl, New York. (See adv. index, end of book)

Letters & Figures (Pattern)

Brim, A. W., Seneca Falls, N. Y.
Butler, A. G. (White Metal for Iron & Brass Castings, also for Machinery, Bridges, Tables, etc.), 284 Pearl, New York
Cleveland Fillet Co. (White Metal), Cleveland, Ohio
Cleveland Galvanizing Works (Steel), Cleveland
Everett, A. & Son, Auburn, N. Y. land, O
Hanson, C. H., 44 Clark, Chicago, Ill.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Hoggson & Pettis Mfg. Co. (Steel), New Haven, Conn.
Knight, H. W. & Son, Seneca Falls, N. Y.
Konigsow Stamping & Tool Works (Steel), Cleveland, O.
Matthews, Jas. H., & Co. (Pattern House, etc.), 306 Wood, Pittsburg, Pa.
Ness, Geo. M., Jr. (Steel), 61 Fulton, New York
Niagara Falls Metal Stamping Works (Steel), Niagara Falls, N. Y.
Oliver Machinery Co., Grand Rapids, Mich.
OSBORN MFG. CO., Cleveland, O. (See adv. index, end of book)
Parker, T. M., Hartford, Conn.
Pattern Letter Co. (White Metal & Brass), Taunton, Mass.
St. Louis Electrotpe Foundry, 214 Pine, St. Louis, Mo.
Schwerdtle Stamp Co., Bridgeport, Conn.
Shanafelt Mfg. Co., Canton, O.
Timms & Chissold, Boundbrook, N. J.
Turner Brass Works, Franklin & Michigan Chicago, Ill.
Woodman, R. Mfg. & Supply Co. (Steel), Boston, Mass.

Letters & Figures (Steel)

Cleveland Steel Stamp Works, Cleveland, O.
Hanson, C. H. ("Machine Made, Cold Rolled"), 44 Clark, Chicago, Ill.

***Letters & Figures ("Willson" Gummed Paper)**

TABLET & TICKET CO., 70-86 Jackson b'way, Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

Levels

Ainsworth, Wm. & Sons ("Wye"), Denver, Colo.
Athol Machine Co. (Iron Pocket, Plumbers', Machinists', Iron Bench, Carpenters', etc.), Athol, Mass.
Automatic Level Co. ("Hights"), Toledo, O.
Baker, McMillen Co. ("Akron," "Standard" & "Eclipse," Carpenters' & Masons' Levels), Beckmann, L. Co., Toledo, O. Akron, O.
Bender, Ph. J. & Sons (Machinists', etc.), 87 Frankfort, New York
Berger, C. L. & Sons, Boston, Mass.
Bostrom-Brady Mfg. Co. ("Bostrom," Builders & Farm), Atlanta, Ga.
Chapin-Stephens Co. (Adjustable & Non-Adjustable Machinists', Brass Cornered, etc.), Pine Meadow, Conn.
Davis & Cook (Spirit, "Cooks" Patent, also "Davis & Cook" Plumb & Level, Aluminum), Watertown, N. Y.
Deck, T. F., Gravity Level Co. (Gravity), Toledo, O.
Dietzgen, Eugene Co., 181 Monroe, Chicago, Ill.
etc., 221 Fulton, New York
Disston, Henry & Sons (Inc.) (Iron, Shafting, Pocket, Machinists', etc.), Tacony, Philadelphia, Pa.
Eden Specialty Co. ("Roe" Plumb & Level), 4314 3d av, Brooklyn, N. Y.
Gardam, Wm. & Son (Architects', Builders', etc.), 47 Rose, New York
Goodell-Pratt Co. (Rocket, Bench, Engineers', etc.), Greenfield, Mass.
Gurley, W. & L. E. (Architects', Engineers', etc.), Troy, N. Y.
Hanna Mfg. Co., Troy, N. Y.
Hieb, Edward ("American" Combined Level & Grade Finder), Railroad, Pa.
Iszard-Warren Co. (Inc.) ("Sterling"), 1122 Vine, Phila., Pa.
Keuffel & Esser Co. (Architects', Engineers', etc.), 127 Fulton, New York
Lietz Co., San Francisco, Cal.
Millers Falls Co. (Iron), 28 Warren, New York; Works: Millers Falls, Mass.
Pfister, Herman (Architects' & Builders'), 428 Plum, Cincinnati, O.
Putnam Machine Co. (Iron, Machinists', etc.), Fitchburg, Mass.
QUEEN & CO. (Inc.), (Architects', Engineers', etc.), n w c 8th & Arch, Phila. Pa. (See adv. index, end of book)
Sawyer Tool Mfg. Co. (Cross Adjustable Bench), Fitchburg, Mass.
Smith, E. G. Co. ("Which Way" Pocket), Columbia, Pa.
Smith, S. O. (Box Wood, etc.), Newark, N. J.

SOLTMANN, E. G.

(Architects' & Engineers'; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)
Springfield Level & Tool Co. (Spirit), 54 Taylor, Springfield, Mass.
Stanley Rule & Level Co. (Bit & Square, Iron Pocket, etc.), New Britain, Conn., & 107 Chambers, New York
STARRETT, L. S., CO. (Iron, Adjustable Bench, etc.), Athol, Mass. (See adv. index & branch offices, end of book)
Stratton Bros. (Cat's Eye Level Glass, etc.), Greenfield, Mass.
Telgmann & Torka (Inc.), San Francisco, Cal.
Power & Lyon Co. (Unique & P. & L.), 95 Chambers, New York
Wright, Frank (Farm), Cave Spring, Ga.
Young & Sons (Engineers', etc.), 47 N 7th, Phila., Pa.

***Levels (Hydrostatic)**

WEBSTER MFG. CO. ("Macdonald"), 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

Levels (Track)

Anderson, W. H. Tool & Supply Co., 14 M comb. Detroit, Mich.
Buda Foundry & Mfg. Co. ("McManus" Combined Track Gauge, Level, etc.), Railway Exchange bldg, Chicago, Ill. Works: 11th Ave., Ill.
Chapin-Stephens Co., Pine Meadow, Conn.
Cook's Standard Tool Co. ("Standard"), Kalamazoo, Mich.
FAIRBANKS, MORSE & CO. ("Duplex," "McHenry," etc.), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
Handlan-Buck Mfg. Co., 212 N 3d, St. Louis, Mo.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index end of book)
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Pittsburg Tool & Drop Forge Co., Cheswick, Pa.
Sheffield Car Co. (The Mellenry), Three Rivers, Mich.
Verona Tool Works, Verona, Pa., & Pittsburg, Pa.

Library Shelving & Fittings (Metallic)

American Iron & Wire Works ("Allen's 20th Century"), 575 Carroll av, Chicago, Ill.
Art Metal Construction Co., Jamestown, N. Y.
BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
Canton Art Metal Co., Canton, O.
Federal Steel Fixture Co., 497 W Kinzie, Chicago, Ill.
GENERAL FIREPROOFING CO. ("All-steel"), Youngstown, O., & 156 5th av, New York. (See adv. index & branch offices, end of book)
Hecla Iron Works, 118 N 11th, Brooklyn, N.Y.
Krag Imperial Cabinet Co. ("All Steel"), Chicago, Ill.
Jamestown Metal Furniture Co., Jamestown, N. Y.
Library Bureau, 530 Atlantic av, Boston, Mass.
SNEAD & CO. IRON WORKS ("Green's"), ft of Pine, Jersey City, N. J. (See adv. index, end of book)
Steel Fixture Mfg. Co., Topeka, Kan.
Stikeman, Geo. ("Stikeman"), 55 W 26th, New York

*License Plates (Vehicle)

NIAGARA FALLS & METAL STAMPING WORKS, Niagara Falls, N. Y. See adv. offices, end of book)

Lids (Journal Box)

Davis Solid Truss Brake Beam Co., Wilmington, Del.
Klinzer & Jones Mfg. Co., 101 Penn av., Pittsburg, Pa.
McCord & Co., Old Colony bldg, Chicago, Ill.
Railway Steel Spring Co. (Pressed Steel), 30 Church, New York
Symington, T. H. Co., Baltimore, Md., & Corning, N. Y.
Union Spring Mfg. Co., New Kensington, Pa.

Life Boats

(See Boats, Life; also Life Rafts)

Life Nets

(See Nets, Life Saving)

Life Preservers

Armstrong Cork Co. ("Acme"), 660 Thomas, Pittsburg, Pa.
Carley Life Float Co., Betz bldg, Phila., Pa.
Drein, Thos. & Sons, Wilmington, Del.
Goodyear Rubber Co., 787 B'way, New York
Hedgeman Rubber Co., 806 Broadway, New York
Kahnweiler's, David Sons Co., 2 Dover, New York
Lane & De Groot, 17 Battery pl., New York
National India Rubber Co., Bristol, R. I.

Life Rafts

American Ship Building Co., Cleveland, O.
Carley Life Float Co. ("Carley" Life Floats), Boston, Mass.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
Detroit Shipbuilding Co. (Brass Dept. ("Clark's" Metallie), Detroit, Mich.
Kahnweiler's David Sons Co. (Rafts & Boats), 2 Dover, New York
Lane & DeGroot Co. (Metallie), 17 Battery pl, New York
Loore, Enoch (Life Boats), Wilmington, Del.
Munn, Thos. C. Co. (Also Life Boats), Wilmington, Del.

Lifters (Car Step)

Consolidated Car Fender Co. ("Miller"), Providence, R. I.

Lifters (Stove Lid)

Arcade Mfg. Co. ("Devore," "Zero," "Siberian," "Arcade" & "New Idea"), Freeport, Ill.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Fanner Mfg. Co. ("Arcle," "Chilkoot" Steel Wire Handle), Cleveland, O.
Griswold Mfg. Co. ("Erle"), Erie, Pa.
Hamblin & Russell Mfg. Co. ("Crown," "Grip"), Worcester, Mass.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hunt, Helm, Ferris & Co. ("Star" Wire), Hartford, Conn.
Stover Mfg. Co., Freeport, Ill.
Troy Nickel Works (Jno. E. Gaitley, Prop.) ("Alaska" Nickel Plated), Albany, N. Y.
Wire Goods Co., Worcester, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.

Lifts (Acid)

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

Lifts (Air)

(See Lifts, Pneumatic; also Pneumatic Pumping Systems)

Lifts (Ash)

(See Holsts, Ash)

*Lifts (Book)

BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)

Lifts (Hydraulic)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Coffin Valve Co. (For Large Water Gates), Neponset, Boston, Mass.
Lewis Foundry & Machine Co., Coraopolis, Pa.
Wood, R. D. & Co. (Portable), 400 Chestnut Phila., Pa.

Lifts (Magnetic)

(See Magnets, Lifting)

*Lifts (Motor Armature)

DUFF MFG. CO. ("Barrett's"), N S Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lifts (Motor, Car Pit)

(See also Cranes; also Holsts)

American General Engineering Co. ("A. G. E." Air Lift), 253 B'way, New York
Prill, J. G. Co., 63d & Woodland, Phila., Pa.
Columbia Machine Works & Malleable Iron Co. ("Columbia," Pneumatic), 269 Chestnut, Brooklyn, N. Y.
DUFF MFG. CO. ("Barrett's"), N S Pittsburg, Pa. (See adv. index & branch offices, end of book)
Patten, Paul R., Salem, Mass.
Quincy, Manchester, Sargent Co. ("Q. & C." Pneumatic), Plainfield, N. J.
VAN DORN & DUTTON CO., 2714 E 79th, S E, Cleveland, O. (See adv. index, end of book)

Lifts (Pneumatic)

(See also Pneumatic Pumping Systems; also Lifts, Water)

American Air Compressor Works, 26 Cortlandt, New York, & Van Brunt & Summit, Brooklyn, N. Y.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Hudson Engineering & Contracting Co., 90 West, New York
INGERSOLL - RAND CO. ("Pohle" & "Saunders," for Water, & "Moran" & "Moser," for Oil), 11 B'way, New York. (See adv. index & branch offices, end of book)
Leyner, J. Geo. Engineering Works Co., Littleton, Colo.
McKernan Drill Co., 115 B'way, New York
Miles, Geo. Co., Winsted, Conn.
Miles Pneumatic Tube Co., 1123 B'way, New York
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Lifts (Sash)

Arcade Mfg. Co., Freeport, Ill.
Brass Goods Mfg., Nevins Union, Brooklyn, N. Y.
Columbian Hardware Company ("Columbian"), Cleveland, O., & 168 Church, New York
Corbin, P. & F., New Britain, Conn.
Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
Griffin Mfg. Co., Erie, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Ives, Hobart B. Co., New Haven, Conn.
National Mfg. Co., Sterling, Ill.
Norwalk Lock Co., South Norwalk, Conn.
Peck, Stow & Wilcox Co., Southington, Conn.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Shelby Spring Hinge Co. (Steel Hook, also Bronze & Brass, Polished), Shelby, O.
STANLEY WORKS (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)
Stover Mfg. Co., Freeport, Ill.
Taylor & Baggis Foundry Co., Cleveland, O.
VOELKNER & HARRY MANUFACTURING Co. (Bar, Flush & Hook, Polished Brass & Japan), 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)
Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.
Wrightsville Hdw. Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

Lifts (Sidewalk)

(See Elevators, Sidewalk)

Lifts (Transom)

Dearborn Hardware Mfg. Co. ("Dearborn" Grip Self Locking), 1344 Carroll av, Chicago, Ill.
Hine-Watt Mfg. Co., 60 Wabash av, Chicago, Ill.
Ormsby, E. A., 10 Thacher, Boston, Mass.
Payson Mfg. Co., 1319 W Jackson bldg, Chicago, Ill.
Reading Hardware Co., Reading, Pa.
Reading Screw Co. (Colton Self-Locking Push Button), Norristown, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Supplee Hardware Co., 503 Market, Phila., Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

Lifts (Water)

(See also Lifts, Pneumatic)

AMERICAN WELL WORKS ("Chapman's" Patent Air Water Lift System), Aurora, Ill. (See adv. index & branch offices, end of book)
Bishop & Babcock Co. ("Enreka" Automatic), Hamilton & 49th, Cleveland, O.
Braender, Philip (Automatic), 143 W 125th, New York
Buckeye Pump & Mfg. Co. ("Buckeye" Automatic), Columbus, O.
Cleveland Fanet Co. ("Champion" Automatic), 706 Franklin av, N W, Cleveland, O.
Clow, Jas. B. & Sons ("Clow"), 344 Franklin, Chicago, Ill.

Humphrey, F. J. Co. ("National"), Kalama
zoo, Mich.
**INGERSOLL - RAND CO. ("Pohle" &
"Saunders")**, 11 B'way, New York. (See
adv. index, end of book)
Monarch Specialty Mfg. Co. ("Monarch"), Co
lumbus, O.
Noppel Pump Co., Hartford, Conn.
Ohio Pump & Brass Co. (Improved "Triumph"
Hydraulic), 18th & Oak, Columbus, O.

Light House Builders

Bartlett, Hayward & Co., Baltimore, Md.
Lewis, Henry B., Detroit, Mich.
**RUSSEL WHEEL & FOUNDRY CO., De-
troit, Mich.** (See adv. index, end of book)

Lighters (Cigar)

American Electrical Novelty Mfg. Co. ("Ever
Ready," Electric), 308 Hudson, New York
Besseltic Lighter Co. ("Besseltic" Elec-
tric), Scranton, Pa.
Bradley & Hubbard Mfg. Co., Meriden, Conn.
Braun, D. J. Mfg. Co., Chicago, Ill.
Brunhoff Mfg. Co. (Cutter & Lighter Com-
bined), Cincinnati, O.
Cowles, C. Co. (Electric), New Haven, Conn.
Eldred Mfg. Co. ("Wizard" Electric), 419 N
Clark, Chicago, Ill.
Erie Specialty Co., Erie, Pa.

GENERAL ELECTRIC CO. (Electric),
Schenectady, N. Y., & 30 Church, New York.
(See adv. index & branch offices, end of book)
Gleason, E. P. Mfg. Co., 37 Murray, New York
Herz Mfg. Co., St. Paul, Minn.
Higgin Mfg. Co., Newport, Ky.
Mahony Bros. ("Chicago," Electric), 134 Van
Buren, Chicago, Ill.
Match-less Light Co. ("Matchless," Electric),
Caxton bldg., Cleveland, O.
Metal Specialty Co., Chicago, Ill.
New England Novelty Mfg. Co., Boston, Mass.
Ohio Electric Works (Electric Portable), Cleve-
land, O.
Standard Mfg. Co. ("Crown," Pendant Elec-
tric), Auburn, Ind.
Wolff, Alfred & Co. (Electric), 45 Vesey, New
York

Lighters (Electric, Gas)

(Above Means Torches; see also Burners, Elec-
tric, Gas Lighting)
American Electrical Novelty & Mfg. Co. ("Ever
Ready"), 308 Hudson, New York
Rogart, A. L. ("Bartholdi"), 123 Liberty, New
York
Cowles, C. Co., New Haven, Conn.
Heinrich Electrical Novelty Co., 173 Grand,
New York
Loomis Specialty Co., Minneapolis, Minn.
Myslie Gas Light Co., 206 B'way, New York
Roche, Wm., Jersey City, N. J.
Standard Sheet Metal Co. ("Rayflex"), Passaic,
N. J.
Stanley & Patterson ("Matchless"), 23 Murray,
New York
Universal Novelty Co. ("Aladdin"), 163 W
29th, New York

Lighters (Range & Gas)

Standard Sheet Metal Co. ("Rayflex"), Pas-
saic, N. J.

Lighting Systems

Engineering of Light & Illumination Co. (All
Forms of Light), 25 Broad, New York

Lightning Indicator

Bajohr, Carl Lightning Rod Works, 4051 Keo-
kuk, St. Louis, Mo.

Lightning Rods

Ajax Conductor & Mfg. Co., 269-271 S. Des-
plaines, Chicago, Ill.
Bajohr, Carl, 4051 Keokuk, St. Louis, Mo.
Baltimore City Lightning Rod Works, Balti-
more, Md.
Boston Lightning Rod Co., 28 Beach, Boston,
Mass.
Buck, W., 1728 Ridge av., Philadelphia, Pa.
Cole Bros. Lightning Rod Co., St. Louis, Mo.
Cole Bros. & Johnson, Sherman, Tex.
Dodd & Struthers, Des Moines, Ia.
Doughty, J. H., Greeneville, Tenn.
Foy, Edw. A. & Co., 409 E 8th, Cincinnati, O.
Goodwin, Fredk. O., 531 & Wyalusing, Phila.
Gorman, M. J., 640 Main, Cincinnati, O.
Helm, Wm. G., 1347 Ridge av., Phila., Pa.
Hum & Leatherman, Pittsburgh, Pa.

**HUNGERFORD, U. T. BRASS & COP-
per Co. (Copper)**, 497 Pearl, New York
Jackson & Cook, 318 Market, Phila., Pa.
Johnson, Chas., 52 John, New York
**JONES, THOS. W., 22 Burling st., New
York.** (See adv. index, end of book)



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ington, D. C.
Lightning Protective Co., 6 Beacon, Boston,
Mass.
Lyon, C. R. & Son, 13 N 13th, Newark, N. J.
Manhattan Brass Co., 338 E 28th, New York
Moore Bros. Lightning Rod Co., Graham, Mo.
National Cable & Mfg. Co. (Pure Copper
Cable), Niles, Mich.
Reyburn, Hunter & Co., 488 N American, Phila.,
Pa., & 99 W Adams, Chicago, Ill.
Sadler, D. M. & Co., 907 N Arlington av.,
Baltimore, Md.
St. Louis Lightning Rod Co., 1901 S 3d, St.
Louis, Mo.
Security Lightning Rod Co., Burlington, Wis.
Shute, E. M., 1003 Myrtle av., Brooklyn, N. Y.
Smith, J. W., Galesburg, Ill.
Southern Lightning Rod Co., 819 Iberville,
New Orleans, La.
Struthers, Renhen F., Peoria, Ill.
Washburne, Edw. G. & Co. (Copper), 46 Cort-
landt, New York
Westervelt, A. B. & W. T., 102 Chambers, New
York

Lights (Desk, Electric)

Alexander, J. Co. ("Ferguson"), 1931 B'way,
New York
Almond, T. R. Mfg. Co., Ashburnham, Mass.
American Brass & Copper Co., 138 Lafayette,
New York
Butler Mfg. & Plating Co., Boston, Mass.
Dale Co., 9th av., & 13th, New York
D'Oiler, Henry, Jr. Co., 119 S 11th, Phila.,
Pa.
Faries Mfg. Co., Decatur, Ill.
Forg, Peter, Somerville, Mass.
Gail-Webb Mfg. Co., Buffalo, N. Y.
H. C. K. Co., 30 Greenwich av., New York
Killoch, David Co. ("Kinsman," Daylight), 193
Greenwich, New York
Klemm & Co., 132 N 5th, Phila., Pa.
McLeod, Ward & Co. ("Kinsman"), 27 Thames,
New York

**MORSE, FRANK W., 516 Atlantic
av, Boston, Mass.** (See adv. index, end of
book)

O'Brien Elec. Light Co., 1710 Market, Phila.,
Pa.
Oliver Mfg. Co. ("Flexilite"), 420 Sansom,
Phila., Pa.
Overbagh & Ayres Mfg. Co. ("Oamco"), 232 S
Clinton, Chicago, Ill.
Pacific Electric Co. ("Espersen"), La Crosse,
Wis.
Scribner, A. C., Gloversville, N. Y.
Stanley & Patterson ("Sunlight"), 23 Murray,
New York
Stuart-Howland Co. ("S. H."), Boston, Mass.
Wells Light Mfg. Co. ("Wallworks"), 14
Church, New York
Wheeler Reflector Co., Boston, Mass.
White, J. H. Mfg. Co. ("Zenith"), 111 N 3d,
Brooklyn, N. Y.
White, O. C. Co., Worcester, Mass.

Lights (Stage, Electric)

(Bunch, Foot, Spot, Etc.)

Bissell, F. Co., Toledo, O.
Campbell Electric Co., Lynn, Mass.
Chase-Shawmut Co., Shawmut, Mass.

Globe Electric Co., 419 W 42d, New York
Kansas City Scenic Co., Kansas City, Mo.
Menchon, Jos. Electrical Co., 360 W 50th, New
York
Metropolitan Elec. Stage Lighting Co., 123 W
40th, New York
Pennefather, J. S., 105 W 39th, New York
Superior Electric Co., 520 W 40th, New York
Universal Elec. Stage Lighting Co. ("Kliegl"),
1393 B'way, New York

Ligni-Salvor (Wood Preserve)

Menzel, Wm. & Son, 68 Broad, New York

Lignum Vitae Turnings

Sandusky Tool Co., Sandusky, O.
Seib Bros., Jersey City, N. J.

Lime (Caustic)

American Lime & Stone Co., Tyrone, Pa.

Lime (Chemical)

New Jersey Lime Co., Hamburg, N. J.
Palmer Lime & Cement Co. ("Palmer," 99 per
cent. Pure Carbonate), 149 B'way, New
York

Lime (Ground & Crushed)

American Lime & Stone Co. (Also Ground
Limestone), Tyrone, Pa.
California Portland Cement Co., Los Angeles,
Cal.; Works: Colton, Cal.
Kelley Island Lime & Transport Co. (Bulk &
Barrel), Cleveland, O.
National Mortar & Supply Co., Pittsburg, Pa.
Ohio & Western Lime Co., Huntington, Ind.
Scioto Lime & Stone Co., Delaware, O.
Toledo White Lime Co., Toledo, O.
Woodville White Lime Co., Toledo, O.

Lime (Hydrated)

A. & C. Stone & Lime Co. (Portland White
Lime), Indianapolis, Ind.
**AMERICAN CONCRETE CO., 80 William,
New York.** (See adv. index, end of book)
Ash Grove Lime & Portland Cement Co., Kan-
sas City, Mo.
Chickamauga Cement Co. (Hydrated Portland
Lime), Chattanooga, Tenn.
Cleveland Builders' Supply Co. ("Excelsior"),
Cleveland, O.
Hannibal Lime Co., Hannibal, Mo.
Kelley Island Lime & Transport Co. ("Tiger"
Brand, White Rock Finish), Cleveland,
Ohio
Knickerbocker Lime Co., Phila., Pa.
Marblehead Lime Co. (Pure Calcium), Kansas
City, Mo.
National Mortar & Supply Co. ("Banner"),
Pittsburg, Pa.
New Jersey Lime Co., Hamburg, N. J.
Ohio & Western Lime Co. ("Diamond"), Hun-
tington, Ind.
Scioto Lime & Stone Co., Delaware, O.
Warner, Chas. Co. ("Limold"), Wilmington,
Del.
Woodville White Lime Co., Toledo, O.

Lime (Hydraulic)

Bangs-Gaynor Cement & Plaster Co., Fayette-
ville, N. Y.
**DOGGETT & STANLEY, 101 Beekman,
York.** (See adv. index, end of book)
Fowler & Pay ("Brown"), Mankato, Minn.
Ladd Lime Co., Cartersville, Ga.
Menominee Brick Co., Menominee, Mich.
**NON-STAINING CEMENT CO., 150
5th av., New York.** (See adv. index, end of
book)
Sheedy, Thos. W., Fayetteville, N. Y.

Lime (Magnesian White)

Lee Lime Co. (For Sulphite & Rag Paper Mills,
Hard Plaster, Scratch & Brown Coat, etc.),
Lee, Mass.

Lime Mfrs.

(For Lime Dealers see Masons' & Builders'
Materials)

ALABAMA.

ANNISTON—Anniston Lime & Stone Co.
Lagard Lime & Stone Co.
Woodstock Iron Works
CALERA—O'Neil, C. L.
FORT PAYNE—Standard Lime Co.
LONG VIEW—Adams, J. B.

ARKANSAS.

BENTONVILLE—Benton County White Lime Co.

FAYETTEVILLE—Ozark White Lime Co.
ROGERS—Rogers White Lime Co. (White)

CALIFORNIA.

LOS ANGELES—Los Angeles Lime Co.
Oro Grande Lime & Stone Co.
Union Lime Co.

SAN FRANCISCO—Cowell, Hy. Lime & Cement Co., 15 East Co., 15 East
Holmes Lime Co., Mutual Sav. B'k bldg
Patent Brick Co., 331 Berry

COLORADO.

DENVER—Barrows, G. A. Lime Co.
Colorado Lime & Fluxing Co.

CONNECTICUT.

CANAAN—New England Lime Co.
EAST CANAAN—Canfield Lime Co.

DELAWARE.

WILMINGTON—Warner, Chas. Co. ("Limoid")

DISTRICT OF COLUMBIA.

WASHINGTON—Knott & Moler, 28th c K. N W

GEORGIA.

GAINESVILLE—Deal, C. L. & Son
GRAYSVILLE—Church, M. M.
Hale, W. F.

ILLINOIS.

CHICAGO — Artesian Stone & Lime Works.
Grand & Campbell avs
Brownell Improvement Co., Cham. of Com.
Chicago Lime Co., 138 Wash. bldg
Chicago & Union Lime Works Co., W 19th & S Lincoln

Drucker, N. J. & Co., 847 Clybourn av
Marble Head Lime Co., Masonic Temple
Stearns Lime & Stone Co., 165 E Randolph
Templeton Lime Co., 510 N Homan av
Waukesha Lime & Stone Co. (White Lime), 172 Washington
Wisconsin Lime & Cement Co., Chamber of Commerce bldg

FREEPORT—Grant, Mrs. Jennie
FULTON—Alden Lime Co.
PORT BYRON—Port Byron Lime Association
QUINCY—Menke, F. W. Stone & Lime Co.
Meyer, W. D. (Marble White)
Quincy White Lime & Cement Co.
ROCKFORD—Hart & Page

INDIANA.

DELPHI—Delphi Lime Co.
Harley Bros.
EVANSVILLE—Elchel Lime & Stone Co.
FORT WAYNE—Moellerling's, Wm. Sons
GREENCASTLE—Oakalla Stone & Lime Co.
HUNTINGTON—Ohio & Western Lime Co. (White)
INDIANAPOLIS—A. & C. Stone & Lime Co.
MITCHELL—Mitchell Lime Co. (White)

IOWA.

DES MOINES—Des Moines Fuel & Lime Co.
MASON CITY—Mason City Lime & Cement Co
VIOLA—Iowa Lime Co.

KANSAS.

CHANUTE—Kansas Lime Co.

KENTUCKY.

GLASGOW—Dickinson Bros.
LOUISVILLE—Union Cement & Lime Co., 421 W Main
Utica Lime Co., 421 W Main
MOUNT VERNON—Kruger & Sons
Sparks, W. J.

MAINE.

ROCKLAND—Bird, A. J. & Co.
Gay, A. C. & Co.
Rockland-Rockport Lime Co.
THOMASTON—Creighton, Jas. A. & Co.

MARYLAND.

BALTIMORE—Gegner, Geo. A., Eastern av c Clinton
Maryland Lime & Cement Co., Carroll bldg
National Building Supply Co., 418 East Pratt

Platt & Co. (Shell), ft Clement
Standard Lime & Stone Co., Equitable bldg
Washington Building Lime Co., Equitable bldg

BUCKEYSTOWN—Standard Lime & Stone Co.
Washington Bldg Lime Co.
TEXAS—Ditman, W. C.
Lindsay, William P.

MASSACHUSETTS.

ADAMS—Hoosick Valley Lime & Marble Co.
New England Lime Co.
BOSTON—Carter, Thos. W., 30 Kilby
FISKE & COMPANY (Inc.) (Jobbers), 25 Arch. (See adv. index, end of book)
CHESHIRE—Cheshire Lime Mfg. Co. of book
Farnum Cheshire Lime Co. (Cheshire Finishing Lime)
LEE—Lee Lime Co. (Magnesia White Lime)

MICHIGAN.

ALPENA—Collins, Richard
DETROIT—Houghten, Henry, 806 Hammond bldg
Little, C. H. Co., Peninsular Bank bldg
ELK RAPIDS—Elk Cement & Lime Co.
GRAND RAPIDS—Superior Lime Co.
MANISTIQUE—White Marble Lime Co.
MENOMINEE—Lyon Bros.
SAGINAW—Remer Bros., 300 Madison

MINNESOTA.

MANKATO—Fowler & Pay ("Brown" Hydraulic)
Mankato Lime, Stone & Fuel Co.
ST. PAUL—Northwestern Lime Co., 68 Lower
Shakopee Cement & Lime Mfg. Co., 220 Chestnut
SHAKOPEE—Shakopee Cement & Lime Mfg. Co.
WINONA—Willis, H. J.

MISSOURI.

BOONVILLE—Lohse & Miller
CAPE GIRARDEAU—Cape Lime & Marble Co
CARTHAGE—Carthage Marble & White Lime Co.
CENTAUR STATION—Centaur Lime Co.
HANNIBAL—Empire Lime Co.
Hannibal Lime Co.
Star Lime Co.
KANSAS CITY—Ash Grove Lime & Portland Cement Co. ("Ash Grove" White)
Brockett, C. A. Cement Co., 121 W 8th
Marblehead Lime Co. (Pure Calcium)
Phoenix Stone & Lime Co., 1901 Olive
LOUISIANA—Crystal Carbonate Lime Co.
Marblehead Lime Co.
PEIRCE CITY—Peirce City Lime Co. (White)
ST. LOUIS—Carthage Marble & White Lime Co., Walnwright bldg
Glencoe Lime & Cement Co., 1400-A Old Manchester rd
Goetz, C. W. Lime & Cement Co., 3527 Gratiot
Hunkins—Willis Lime & Cement Co., 18th St Bridge
Ste. Genevieve Lime Co., Mermod & Jacob card bldg
Union Sand & Material Co. ("Red Diamond"), Leggett bldg
SPRINGFIELD—Marblehead Lime Co.

NEW JERSEY.

CAMDEN—Camden Lime Co.
HAMBURG—New Jersey Lime Co.
Windsor Lime Co.
McAFEE VALLEY—New Jersey Lime Co.
NEWARK—Newark Lime & Cement Mfg. Co., ft Bridge
Phillips White Rock Lime Co., 125 Front
PEAPACK—Todd, Philip
TRENTON—Richardson, J. B. & Son

NEW YORK.

BIGFLOW—Williams, Chas. & Co. (Mostly In Bulk)
BINGHAMTON—Ballard, J. W. Co. (Bulk)
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Carroll Bros., 490 Ellcott sq
Reeb, M. A., 599 Mich
Ross, Jas. H., 141 Erie
CALEDONIA—Caledonia Marl & Lime Co.
CHAUMONT—Adams & Duford Co. ("Chaumont" White Lime in Bulk & Barrel)
CHAZY—Chazy Marble Lime Co.
FAYETTEVILLE—Bangs-Gaynor Cement & Plaster Co. (Water, Lime or Cement)
Sheedy, Thos. W. (Water Lime or Cement)
GLENS FALLS—Finch, Pruyon & Co.
KINGSTON—Gill, David, Jr., 220 E Strand
NEWBURGH—Harrison, Jno. J. E., 490 B'way

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Rockland-Rockport Lime Co., Newtown Creek & Morgan av

Boroughs of Manhattan & Bronx.

NEW YORK—Bloomer & Co., 290 Front
FISKE & CO. (Inc.) (Jobbers)
Flat Iron bldg. (See adv. index, end of book)
Palmer Lime & Cement Co. ("Cheshire"
"Bellocfonte" "Palmer" "Yorktown
Heights" "Connecticut White" "Hardsell"
"Hoosac Valley"), 149 B'way
Reardon, Dennis, 74 Cortlandt
(End of New York City)

ROCHESTER—Rochester Lime Co., 309 W
SODUS CENTER—Mather, E. B. Main
SYRACUSE—Britton, Israel E., 201 W. Onon
UTICA—Conley, F. E. Stone Co.

OHIO.

BUCYRUS—Broken Sword Stone Co.
CEDARVILLE—Ervin, D. S. Co. (Large)
CLEVELAND—James, Ralph T., 5313 Euclid
Kelley Island Lime & Transport Co., Rockefeller bldg
COLD SPRINGS—Strunk-Meyer Lime Co.
COLUMBUS—Columbus Macadam Co., McKIn-
DELAWARE—Scoto Lime & Stone Co. ley av
FOSTORIA—Ohio & Western Lime Co. (Ground & in Lump)
GENOA—Ohio & Western Lime Co. (White)
GIBSONBURG—Ohio & Western Lime Co. (White)
Zorn, Hornung Co.
LUCKEY—Doherty & Co.
MARION—Evans, John, Lime & Stone Co. Ohio & Western Lime Co.
PATTERSON—Herzog, Jno. & Son
PIQUA—Ohio Marble Co.
SPRINGFIELD—Mills Bros., 107 S Limestone
Moore's Lime Co. ("Springfield"),
TOLEDO—Doherty & Co., ft of Washington
Ohio & Western Lime Co.
Woodville White Lime Co. (White)

OREGON.

PORTLAND—McCraken, J. Co., 231 Pine
Nottingham & Co., ft Wash'n
Oregon Lime & Plaster Co., ft 14th

PENNSYLVANIA.

ALLENTOWN—Ochs, M. T. J.
Ochs, M. T. J.
BELLEFONTE—Bellefonte Lime Co.
CANOE CREEK—Blair Limestone Co.
CARLISLE—Goodyear Bros.
DRYVILLE—Angstadt, Rudolph H.
EASTON—Easton Lime Co.
FRANKSTOWN—American Lime & Stone Co.
FRAZER—Knickerbocker Lime Co.
MORGANTOWN—Binder, Dallas
NEW CASTLE—Croton Limestone & Brick Co.
NORRISTOWN—Richardson & Ross
PHILADELPHIA—Cox's, C. A., Sons, 2145 N American

FRENCH, SAM'L H. & CO., 4th & Callowhill. (See adv. index, end of book)
Knickerbocker Lime Co. (Inc.), 366 N 24th
Lukens & Yerkes, Commonwealth bldg
Lyster Supply Co., 30th and Spruce
Warner, Chas. Co. (Cedar Hollow, Wrightville & Potomac Lime Stone), Land Title bldg

PITTSBURG—Houston Bros. Co., 32d & P. McKallip & Co. R. R.
National Mortar & Supply Co. ("Banner Hydrate"), 209 9th

PLYMOUTH MEETING—Corson, G. & W. H. Cox Lime & Crushed Stone Co.
READING—Reading Lime Co.
SCRANTON—Haslam Lime Co.
Kellar, Luther
Paragon Plaster & Supply Co.
SHENANDOAH—Roberts, Samuel G.
TYRONE—American Lime & Stone Co.
WAYNESBORO—Decarbonated Lime & Stone Co.
WRIGHTSVILLE—Steecey & Wilton Co.
YORK—Baker, J. E., & Co.
York Valley Lime Co.
YORK SPRINGS—Trostel, Geo. H.

RHODE ISLAND.

LIMEROCK—Harris, Herbert

SOUTH CAROLINA.

GAFFNEY—Carroll & Co.

SOUTH DAKOTA.

PRINGLE—Black Hill Lime Co.

TENNESSEE.

BURNS—Allen, Jesse & Co.

CHATTANOOGA—Gager Lime & Mfg. Co.

KNOXVILLE—Kinzcl Lime Co.

Knoxville Lime Co.

Tennessee Linc & Sand Co.

MEMPHIS—Dentic's, Jno. A. Sons (Ala. Ark. & Tenn. Lime)

Wright Lime & Cement Co.

NASHVILLE—Hardison, W. T. & Co., 115 S Tennessee Cement & Lime Co. Front

SHERWOOD—Gager Lime & Mfg. Co.

TEXAS.

AUSTIN—Austin White Lime Co.

EL PASO—El Paso Ice & Refrigerator Co.

FORT WORTH—Fort Worth Lime Works

ROUND ROCK—Walsh, Wm. & Co.

UTAH.

SALT LAKE CITY—Langton Lime & Cement Co.

VERMONT.

AMSDEN—Amsden Lime Co.

IRA—Day, Dexter D.

LEICESTER JUNCTION—Brandon Lime & Swinington, J. C. & J. A. Marble Co.

NORTH POONAL—New England Lime Co.

SAINT ALBANS—Fonda, W. B.

SWANTON JUNCTION—Rich, Jno. P.

VIRGINIA.

RICHMOND—Lea, A. S. & Sons Co.

Moore Lime Co., 17th & Dock

RIVERTON—Riverton Lime Co.

STEPHENS CITY—Grove, M. J. Lime Co.

WASHINGTON.

DEER HARBOR—Imperial Lime Co.

Orcas Lime Co.

FRIDAY HARBOR—Cowell, Hy. Lime & Cement Co.

ROCHE HARBOR—Tacoma & Roche Harbor SPOKANE—Idaho Lime Co. Lime Co.

Washington Brick, Lime & Mfg. Co.

TACOMA—Tacoma & Roche Harbor Lime Co.

WEST VIRGINIA.

BAKERTON—Washington Building Lime Co.

BUNKER HILL—Baker, J. E., & Co.

MARTINSBURG—Berkley Limestone Co.

Standard Lime & Stone Co.

WISCONSIN.

APPLETON—Marston Bros.

FOND DU LAC—Standard Lime & Stone Co.

GRATON—Anschuetz & Co.

Milwaukee Falls Lime Co.

MAYVILLE—Mayville White Lime Works

MENASHIA—Plummer, H. H.

MARBLEHEAD—Nast Bros. Lime & Stone Co.

MILWAUKEE—Empire Lime & Stone Co.

Milwaukee Falls Lime Co., Humboldt av

Western Lime & Cement Co., Pabst bldg

OSHKOSH—Cook & Brown Lime Co.

Kusche, E.

QUARRY—Empire Lime & Stone Co.

RACINE—Horlick Lime & Stone Co.

ROCKFIELD—Mace Lime Co.

SHEBOYGAN—Sheboygan Lime Works

TEMPLETON—Templeton Lime & Stone Co.

WATERTOWN—Racek & Maldaner

WEST SUPERIOR—Superior Mfg. Co.

Lime Packers

(See Cement Packers)

Lime (Vienna)

Hanson & Van Winkle Co., Newark, N. J.

***Limestone (French)**

BOCKMANN & SHEPARD, 1265-9 B'way, New York. (See adv. index, end of book)

Limestone (Ground & Powdered)

Casparis Stone Co. (Ground Limestone), Columbus, O.

DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)

Kelley Island Lime & Transport Co., Cleveland, O.

Moline Stone Co. (Ground Limestone), Moline, Ill.

Osborn, Clarence J. Co., "Broker", 284 Pearl, New York

Whitestone Marble Co., Atlanta, Ga.

Lincrusta Walton Mfrs.

Beck, Fr. & Co., 206 W 29th, New York

Line Materials

(See Trolley Line Materials)

Linings (Blast Furnace)

Ashland Fire Brick Co., Ashland, Ky.

Bickford Fire Brick Co., Pittsburg, Pa.

Harbison-Walker Refractories Co., Pittsburg, Pa.

Haws, A. J. & Sons (Ltd.), Johnstown, Pa.

Stowe-Fuller Co., Cleveland, O.

Links (Connecting)

Brewer Bros. (Wrought Open), 614 Filbert, Phila., Pa.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Keystone Drop Forge Works ("Keystone" Open Link), Chester, Pa.

Laughlin, Thos., Co., Portland, Me.

Marine Hardware & Equipment Co. ("Acme" Drop Forged), South Portland, Me.

Wilcox, Crittenden & Co. (Drop Forged), Middletown, Conn.

Links for Conveyor Chains

Oliver Iron & Steel Co., Pittsburg, Pa.

Scranton Forging Co., Scranton, Pa.

Links (Fusible)

Chicago Fuse Wire & Mfg. Co. ("Union"), 170 S Clinton, Chicago, Ill.

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

Richards Mfg. Co., Aurora, Ill.

Links (Split)

Plume & Atwood Mfg. Co., Waterbury, Conn.

Smith & Egge Mfg. Co., Bridgeport, Conn.

Links & Pins (Coupling)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 Broadway, New York

Cambria Steel Co., Arcade bldg, Phila., Pa.

Carnegie Steel Co., Pittsburg, Pa.

Champion Rivet Co., Cleveland, O.

Harris, Wm. & Son, Allegheny, Pa.

Helmbacher Forge & Rolling Mills Co., St. Louis, Mo.

Logan Iron & Steel Co., Burnham, Pa.

New Castel Forge & Bolt Co., New Castle, Pa.

Oliver Iron & Steel Co., Pittsburg, Pa.

Pittsburg Forge & Iron Co., Pittsburg, Pa.

Tredegar Co., Richmond, Va.

Wilcox, D. Mfg. Co., Mechanicsburg, Pa.

Linoleum Mfrs.

American Linoleum Mfg. Co., 366 5th av, New York, & Linoleumville, Borough of Richmond, N. Y. City

American Oil Cloth Co., 262 Canal, New York. Works: Salem, N. J.

Armstrong Cork Co. (Linoleum Dept.), Pittsburg, Pa. Factory: Lancaster, Pa.

Beuttell, Henry & Son ("Greenwich," Inland, etc.), 133 5th av New York

Blabon, Geo. W. Co., 34 N 5th, Phila., Pa.

Farr & Bailey Mfg. Co., Camden, N. J.

Germania Importing Co. ("Anchor," Inland, Imported), 127 Duane, New York

Judson, P. O. & Co. ("Rixdorfer" Parquet, Inland, etc.), 16 E 17th, New York

Keveney, T. J. & Co. ("Key" Brand, Inland, Imported), 127 Duane, New York

Nairn Linoleum Co., Kearny, N. J.

National Linoleum Co., Trenton, N. J.

Potter, Thos., Sons & Co. (Inc.), 522 Arch, Phila., Pa., & 41 Union sq, New York

Standard Inland Mfg. Co., Trenton, N. J.

Trenton Oil Cloth & Linoleum Co. ("Cook's"), Trenton, N. J.

Linseed Oil & Cake Mills

(Marked with a (*) are Independent Mills)

CALIFORNIA.

BERKELEY—El Dorado Oil Works Co. (W. B.)

SAN FRANCISCO—*Pacific Oil & Lead Works, 155 Townsend

ILLINOIS.

CHICAGO—American Linseed Co., Old Colony Bldg.

*Chicago White Lead & Oil Co., N Green & Fulton

Euston & Co., 371 Hawthorne av.

Grace Varnish Co., 125 Larrabee

*National Lead Co., 1510 State

INDIANA.

INDIANAPOLIS—Evans Linseed Oil Works

KANSAS.

TOPEKA—Topeka Linseed Oil Works

MICHIGAN.

DETROIT—American Linseed Co., Leib c Wight

*National Lead Co., 81 Woodbridge

MINNESOTA.

MINNEAPOLIS—American Linseed Co. Main

Midland Linseed Co. Office, N. Y. City

Minnesota Linseed Oil Co.

*Northern Linseed Oil Co.

RED WING—Red Wing Linseed Co.

ST. PAUL—American Linseed Co.

MISSOURI.

KANSAS CITY—American Linseed Co. Main

Office, N. Y. City

*National Lead Co., 1215 W 10th

ST. LOUIS—American Linseed Co. Main Of-

fice, N. Y. City

*Brown, R. B., Oil Co., 112 N 4th

*Mound City Paint & Color Co., 811 N 6th

NEBRASKA.

OMAHA—American Linseed Co., Main Office,

*National Lead Co. N. Y. City

NEW YORK.

AMSTERDAM—Kelloggs & Miller

BUFFALO—American Linseed Co., W. Ganson

*Hauenstein & Co., 37 Vincennes

*Kellogg, Spencer, Co., Ganson c Michigan

*Mann Bros. Co., 340 Ohio

*National Lead Co., c Clinton & Oak

NEW YORK—American Linseed Co., 100 Wil-

*National Lead Co., 100 William Ham

OHIO.

CINCINNATI—Burckhardt & Co., 323 Sycamore

Moore, Chas. H. Oil Co., York & McLean av.

*National Lead Co., 7th & Freeman av

CLEVELAND—Harshaw, Fuller & Goodwin

Co., Electric bldg

*National Lead Co., 637 Champlain av., N.W.

MANSFIELD—Mansfield Linseed Oil Co.

TOLEDO—Metzger Seed & Oil Co.

Toledo Linseed Oil Works

OREGON.

PORTLAND—Portland Linseed Oil Works

PENNSYLVANIA.

FRANKLIN—*Riesemann Mfg. Co., Ltd.

PENNSBURG—*Hillegass & Krauss

PHILADELPHIA—Grove Linseed Oil Co., Delaware av. & Blizley

*Lewis, John T. & Bros. Co., 231 S. Front

PITTSBURG—National Lead & Oil Co. (of

Penna.) (Raw, Boiled & Refined), 2nd

National Bank bldg

WISCONSIN.

MILWAUKEE — *Goodrich, Wm. & Co., 108

Barclay

Liquids (Fireproofing)

Blenio Fireproofing Co., 545 W 22d, New York

Liquors (Iron)

Cochrane Chemical Co., Boston, Mass.

Listers (Loose Ground, Corn & Potatoes, Two Row)

Nebraska Mfg. Co. ("Kaar"), Lincoln, Neb.

Listers & Corn & Cotton Planters (Riding)

Avery, B. F. & Sons ("Mr. Bill"), Louisville, Ky.

Deere & Mansur Co. ("Deere"), Moline, Ill.

Eagle Mfg. Co. ("Eagle"), Kansas City, Mo.

Emerson Mfg. Co. ("Emerson"), Rockford, Ill.

Gale Mfg. Co. ("Sure Drop"), Albion, Mich.

Ohio Cultivator Co. ("Ohio Flyer"), Bellevue, Ohio

Oliver Chilled Plow Works ("Oliver"), South Bend, Ind.

Parlin & Orendorff Co. ("Canton"), Canton, Ill.

Racine-Sattley Co. ("Lucky Hit," "Tonapah"), Springfield, Ill.

Listers & Drills (Riding)

Bradley, David Mfg. Co. ("Bradley"), Bradley, Ill.

Case, J. I. Plow Works ("Royal Jr.," "Racine"), Racine, Wis.

Deere & Co. ("John Deere"), Moline, Ill.

Deere & Mansur Co. ("Deere," "New Deere"), Moline, Ill.

Eagle Mfg. Co. ("Eagle," "Eagle Junior"), Kansas City, Mo.

Emerson Mfg. Co. ("Emerson," "New Emerson"), Rockford, Ill.

Fort Madison Plow Co. ("Buster Brown," "Morrison," "New Morrisou"), Fort Madison, Ia.

Fuller & Johnson Mfg. Co. ("Climax"), Madison, Wis.

Gale Mfg. Co. ("Great West," "Sure Drop"), Albion, Mich.

Galesburg Coulter-Disc Co. ("Brown"), Galesburg, Ill.

Grand Detour Plow Co. ("Grand Detour"), Dixon, Ill.

Hayes Pump & Planter Co. ("Hayes"), Galva, Ill.

Janesville Machine Co. ("Janesville"), Janesville, Wis.

Kingman Plow Co. ("Kingman"), Peoria, Ill.

La Cross Plow Co. ("Defiance"), La Crosse, Wis.

Moline Plow Co. ("Easy Money," "Tri Belle," "Western Belle"), Moline, Ill.

Ohio Cultivator Co. ("Ohio Senior"), Bellevue, Ohio

Oliver Chilled Plow Works ("Oliver"), South Bend, Ind.

Parlin & Orendorff Co. ("Canton"), Canton, Ill.

Peru Plow & Wheel Co. ("Boss," "Little Duke," "Model," "New Duke"), Peru, Ill.

Racine-Sattley Co. ("Little Buster," "Lucky Hit," "Sattley"), Springfield, Ill.

Rock Island Plow Co. ("Emperor," "Tricycle"), Rock Island, Ill.

St. Joseph Plow Co. ("Early Bird," "Famous St. Joe," "Tri-Wheeler"), St. Joseph, Mo.

Sechler, D. M. Carriage Co. ("Black Hawk"), Moline, Ill.

Syracuse Chilled Plow Co. ("Syracuse"), Syracuse, N. Y.

Listers & Drills (Riding, Two Row)

Deere & Co. ("John Deere"), Moline, Ill.

Parlin & Orendorff Co. ("Canton"), Canton, Ill.

St. Joseph Plow Co. ("Famous St. Joe," "St. Joe"), St. Joseph, Mo.

Listers & Drills (Walking)

Bradley, David Mfg. Co. ("Bradley"), Bradley, Ill.

Case, J. I. Plow Works ("Acme"), Racine, Wis.

Deere & Co. ("John Deere"), Moline, Ill.

Eagle Mfg. Co. ("Eagle"), Kansas City, Mo.

Emerson Mfg. Co. ("Emerson," "New Emerson"), Rockford, Ill.

Fort Madison Plow Co. ("Morrison"), Fort Madison, Ia.

Fuller & Johnson Mfg. Co. ("Climax," "F. & J."), Madison, Wis.

Gale Mfg. Co. ("Great West"), Albion, Mich.

Grand Detour Plow Co. ("Grand Detour"), Dixon, Ill.

Hayes Pump & Planter Co. ("Hayes"), Galva, Ill.

Kingman Plow Co. ("Kingman"), Peoria, Ill.

Moline Plow Co. ("Puritan"), Moline, Ill.

Ohio Cultivator Co. ("Famous Ohio," "Ohio Junior"), Bellevue, O.

Oliver Chilled Plow Works ("Oliver"), South Bend, Ind.

Parlin & Orendorff Co. ("Canton"), Canton, Ill.

Peru Plow & Wheel Co. ("Peru"), Peru, Ill.

Racine-Sattley Co. ("Sattley"), Springfield, Ill.

Rock Island Plow Co. ("Empress," "Star"), Rock Island, Ill.

St. Joseph Plow Co. ("Famous St. Joe"), St. Joseph, Mo.

*Litharge (Glass Mfrs.)

NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)

Lithopone

Gabriel & Schall, 205 Pearl, New York

Williams, Jno. T. & Son, 27 William, New York

*Lixiviation Plants

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Loaders (Blast Hole)

Cyclone Drill Co. ("Economy"), Orrville, O.

Loaders (Box Car)

Gabriel & Schall, 205 Pearl, New York

Christy Box Car Loader Co. ("Christy"), Des Moines, Ia.

Duncan Foundry & Machine Works ("Smith"), Gravity, Alton, Ill.

Ellison, Wm. & Sons Mfg. Co., 1020 N. 6th, St. Louis, Mo.

Fairmont Mining Machinery Co. ("Fairmont Rotary"), Fairmont, W. Va.

Litchfield Foundry & Machine Co., Litchfield, Ill.

Ottumwa Box Car Loader Co., Ottumwa, Ia.

Loaders (Grain Car)

Caldwell, H. W. & Son Co. ("Champion," "Sterilug"), 17th & Western av, Chicago, Ill.

Great Western Mfg. Co., Leavenworth, Kan.

Ideal Car Loader Co., Allenville, Ill.

Marseilles Mfg. Co. (Hay), Marseilles, Ill.

Moroa Mfg. Co. (The "Boss"), Moroa, Ill.

Pease, E. H. Mfg. Co., Racine, Wis.

WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

Loaders (Hay)

Chambers, Bering & Quinlan Co., Decatur, Ill.

Daln Mfg. Co. ("Dains"), Ottumwa, Iowa

Deere & Mansur Co., Moline, Ill.

Hocking Valley Mfg. Co., Lancaster, O.

International Harvester Co. of America, Chicago, Ill., & Auburn, N. Y.

La Crosse Hay Tool Co. ("Gearless"), Ottumwa, Iowa

Marseilles Mfg. Co. (Grain Car), Marseilles, Ill.

Ohio Rake Co. ("Ohio," "Canton"), Dayton, O.

Parlin & Orendorff Co., Canton, Ill.

Porter, J. E. Co., Ottawa, Ill.

Rock Island Plow Co. (Also Combined Rake & Loader), Rock Island, Ill.

Sandwich Mfg. Co. (Clean Sweep), Sandwich, Ill.

Sterling Mfg. Co., Sterling, Ill.

Thomas Mfg. Co., Springfield, O.

Thornburgh Mfg. Co. ("Ohio Valley"), Bowling Green, O.

Loaders (Log)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN HOIST & DERRICK CO. ("American"), St. Paul, Minn. (See adv. index & branch offices, end of book)

Byers, Jno. F. Machine Co., Ravenna, O.

Chattanooga Machine Co., Chattanooga, Tenn.

Clyde Iron Works ("McGiffert"), Duluth, Minn.

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

Goodyear Lumber Co. ("Baruhart," "Model"), Buffalo, N. Y.

Hill, Wm. E. & Co., Kalamazoo, Mich.

KILGORE-PETELER CO. (Direct Acting Steam), Minneapolis, Minn. (See adv. index, end of book)

Lane Mfg. Co. (Steam, also Unloaders & Stops), Montpelier, Vt.

LIDGERWOOD MFG. CO. (Steam), 96 Liberty, New York, & Old Colony Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

MONIGHAN MACHINE CO. (Steam), 813 Carroll av, Chicago, Ill. (See adv. index, end of book)

Phenix Mfg. Co. ("Kilnes"), Eau Claire, Wis.

Pond-Decker Mfg. Co., Newport, Ark.

Rammung, John Machine Co., 300 S. Main, St. Louis, Mo.

Roots, P. H. & F. M. Co. (Steam), Connersville, Ind.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Soule Steam Feed Works, Meridian, Miss.

Wickes Bros. (Steam), Saginaw, Mich.

Loaders (Rail)

United Supply & Mfg. Co. ("American," for Handling Steel Rails), Railway Exchange, Chicago, Ill.

Loaders (Wagon)

Austin Mfg. Co. ("New Era"), Manhattan bldg, Chicago, Ill.

Indiana Road Machine Co., Fort Wayne, Ind.

RANSOME CONCRETE MACHINERY Co., Dunellen, N. J. (See adv. index & branch offices, end of book)

Western Wheeled Scraper Co., Aurora, Ill.

Lock Gates (Steel)

Penua, Bridge Co., Beaver Falls, Pa.

Lock Mfrs.

(See also Hardware Manufacturers)

Ahrend, Herman & Son, 179 Van Buren, Newark, N. J.

Barrows Lock Co., Lockport, Ill.

Bates, L. L. & Co. (Safe), 150 Portland, Boston, Mass.

Blake, Ira G. (Time Lock), Worcester, Mass.

Bohannon, Wilson, 760 Lex. av, Brooklyn, N. Y.

Branford Lock Works, Branford, Conn.

Brass Goods Mfg. Co. (Refrigerator), Nevins Union, Brooklyn, N. Y.

Bridgeport Gun Implement Co. (Bicycle, etc.), Bridgeport, Conn.

Champion Safety Lock Co., Geneva, O.

Chicago Hardware Co., North Chicago, Ill.

Climax, J. H. W. Co., Newark, N. J.

Corbin Bros. Co., New Britain, Conn.

Corbin Cabinet Lock Co., New Britain, Conn.

Cowles, C. & Co. (Inc.), (Malleable & Brass Automobile, etc.), New Haven, Conn.

Dayton Mfg. Co., Dayton, O.

Dayton Supply Co. ("Dayton") Cantpick for Doors), Dayton, O.

Defiance Scuttle Lock Co., 277 Church, New York

Eagle Lock Co. (Cabinet, Trunk & Padlock), Terryville, Conn.

Forsyth Mfg. Co. (Combination), 41 Chandler, Buffalo, N. Y.

Fraim, E. T., Lock Co. (Padlocks), Lancaster, Pa.

Gonce Lock Mfg. Co. (Keyless), Chattanooga, Tenn.

Hall, Wm. & Co. (Asylum & Prison), 4 Dock sq. Boston, Mass.

Hardware & Woodenware Mfg. Co., 683 B'way, New York

Ideal Lock Co. ("Ideal" Door), 257 39th, Brooklyn, N. Y.

Indianapolis Lock Co. (Post Office), Indianapolis, Ind.

Ives, Hobart B., Co. (Sash), New Haven, Conn.

Kell, Francis, & Son, 667 E 163d, New York

Keyless Lock Co., 1041 Newman, Indianapolis, Ind.

Keystone Lock Works, 234 Ionic, Phila., Pa.

Lockwood Mfg. Co., S. Norwalk, Conn.

Loeffelholz Co. (Car & Switch), 170 Clinton, Milwaukee, Wis.

Michigan Mfg. Co., Ypsilanti, Mich.

Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.

Miller, J. Walter (Padlocks), Lancaster, Pa.

Miller Lock Co. (Keyless Padlock, Car Switch, etc.), 4523 Theony, Phila., Pa.

Miller Sash Lock Co. (Window), 408 Olive, St. Louis, Mo.
 National Lock Co., Rockford, Ill.
 New England Lock & Hinge Co., Wrentham, Mass.
 Nock, G. W. Co., 126 N 4th, Phila., Pa.
 Norwalk Lock Co., South Norwalk, Conn.
 Ochsner, A. & Son (Automobile & Carriage), New Haven, Conn.
 Ohio Brass & Iron Mfg. Co. ("Meter Locks"), Dayton Mfg. Co., Chicago, Ill. Columbus, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co. ("Helmzmann Cylinder Dead Knob"), Reading, Pa.
 Phoenix Lock Works, 22 Commercial, Newark, Reading Hardware Co., Reading, Pa. N. J.
 Reeves Mfg. Co. (Bicycle), New Haven, Conn.
 Reliance Ball Bearing Door Hanger Co., 1 Madison av, New York
 Romer & Co. (Inc.), 275 Passaic, Newark, N. J.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co. (General Line of Key Locks), Water & Wallace, New Haven, Conn., & 94 Centre, New York
 Sargent & Greenleaf Co. (General Line of Key Locks), 178 Court, Rochester, N. Y.
 Schroder, J. B. & Co., 133 W 5th, Cincinnati, O.
 Slaymaker, S. R. (Bicycle, Door, Dead, Dog Collar, Store Door & Padlock), Lancaster, Pa.
 Smith & Egge Mfg. Co. (Pad, Mail Box, Sewing Machine and Piano), Bridgeport, Conn.
 Star Lock Works, 110 S 8th, Phila., Pa.
 Stearns, E. C. & Co., Syracuse, N. Y.
 Stewart-Crook Hdw. Co., 7 N Liberty, Baltimore, Md.
 Taylor & Boggis Foundry Co., Cleveland, O.
 Tiebout, W. & J. (Brass), 118 Chambers, New York
 Tower & Lyon Co., 95 Chambers, New York
 United States Steel Lock Co., Lyons, La.
 Wise, J. B. (Sewing Machine & Organ), 41 Mill, Watertown, N. Y.
 Woodruff, W. W. & Sons Co. (Carriage Door), Mount Carmel, Conn.
 Wrightsville Hardware Co. ("Chisholm Shutter Lock & Bower"), Wrightsville, Pa.
 Yale & Towne Mfg. Co., 9 Murray, New York.

Lock Mfrs. (Bank)

Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Barn Door)

Schroder, J. B., & Co., 132 E 5th, Cincinnati, Ohio
 Stearns, E. C. & Co. (For Sliding Door), Syracuse, N. Y.
 Western Brass Mfg. Works (Iron Japanned & Brass), 21st & Rockwell, Chicago, Ill.

Lock Mfrs. (Bicycle)

Corbin Cabinet Lock Co., New Britain, Conn.
 Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Cabinet)

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Car & Switch)

Adams & Westlake Co., Ontario & N Franklin, Chicago, Ill.
 Blanchard Railway Switch Lock Co., 141 Milk Boston, Mass.
 Bohannon, Wilson, 760 Lexington av, Brooklyn, N. Y.
 Climax, J. H. W., Co. (Switch), 275 Passaic, Newark, N. J.
 Creamer, W. G., & Co., 96 John, New York
 Dayton Mfg. Co., Dayton, Ohio.
 Detroit Ship Building Co. (Brass Dept.), Detroit, Mich.
 Edgar Car Lock & Steel Co. (Box Car Locks, etc.), Iola, Kan.
 General Railway Signal Co., Rochester, N. Y.
 Loeffelholz Co., Milwaukee, Wis.
 Miller, J. B. Lock Co., 4519 Tacony, Phila., Pa.
 Romer & Co. (Inc.), 275 Passaic, Newark, N. J.
 Russell & Erwin Mfg. Co. (Car Door Only), New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Centre
 Slaymaker, S. R., Lancaster, Pa. New York
 Zelnicker, Walter A., Supply Co., St. Louis, Mo.

Lock Mfrs. (Clothes Locker)

(See Lock Manufacturers, Locker)

Lock Mfrs. (Cupboard)

Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Desk)

Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Dog Collar)

Corbin Bros. Co. (Padlock, etc.), New Britain, Conn.
 Corbin Cabinet Lock Co. (Padlock, etc.), New Britain, Conn.
 Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
 Power & Lyon Co., 95 Chambers, New York

Lock Mfrs. (Drawer)

Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
 Yale & Towne Mfg. Co., 9 Murray, New York

*Lock Mfrs. (Elevator Door)

(See also Elevator Safety Locks)

CHISHOLM & MOORE MFG. CO.
 ("Moore's" Reversible Square), 49th & Lake, Cleveland, O. (See adv. index, end of book)

Lock Mfrs. (Keyless)

Dayton Keyless Lock Co., Dayton, O.
DURAND STEEL LOCKER CO. ("Durand"), 128 Monroe, Chicago, Ill., & 1.2 Nassau, New York. (See adv. index, end of book)

Keyless Lock Co., 1401 Newman, Indianapolis, Ind.
 Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.

Lock Mfrs. (Lamp)

(For Locking Incandescent Lamps in Socket)
 Crescent Co. ("Protector"), Valparaiso, Ind.
 Davis Bros. Elec. Co., Alton, Ill.
GENERAL ELECTRIC CO. (Locking Socket), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Lock Mfrs. (Locker)

DURAND STEEL LOCKER CO., 128 Monroe, Chicago, Ill., & 132 Nassau, New York. (See adv. index, end of book)
 Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
 Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Master Keyed)

Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Padlock)

Ames Sword Co. ("Perfection"), Chicopee, Mass.
 Bohannon, Wilson, 760 Lexington av, Brooklyn, N. Y.
 Chapman, W. H. Co., Middletown, Conn.
 Climax, J. H. W. Co., 275 Passaic, Newark, N. J.
 Corbin Bros. Co., New Britain, Conn.
 Corbin Cabinet Lock Co. (Wrought & Cast), New Britain, Conn.
 Dayton Mfg. Co., Dayton, O.
 Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
 Eagle Lock Co., Terryville, Conn.
 Fraim, E. T., Lock Co., Lancaster, Pa.
 Mallory-Wheeler Co., New Haven, Conn.
 Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
 Miller, J. Walter, Lancaster, Pa.
 Miller Lock Co. (a Large Assortment of Styles), 4523 Tacony, Phila., Pa.
 Romer & Co. (Inc.), 275 Passaic, Newark, N. J.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Safe Padlock & Hardware Co., Lancaster, Pa.
 Sargent & Co., New Haven, Conn., & 94 Center New York
 Sargent & Greenleaf Co., Rochester, N. Y.
 Schroder, J. B., & Co., 132 E 5th, Cincinnati, Ohio
 Slaymaker, S. R., Lancaster, Pa.
 Smith & Egge Mfg. Co. ("Giant"), Bridgeport, Conn.
 Tower & Lyon Co., 95 Chambers, New York
 Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Pole)

Ajax Line Materials Co., 12 S Jefferson, Chicago, Ind.
 Cutter, Geo. Co., South Berd, Ind.

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Lock Mfrs. (Safe Deposit)

HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index, end of book)
Yale & Towne Mfg. Co. (Handles & Locks), 9 Murray, New York

Lock Mfrs. (Sash)

Brohard Co. (Stamped Steel), 1624 N 9th, Phila., Pa.
Builders' Supply Corp'n ("Samson" Steel), Indianapolis, Ind.
Caldwell Mfg. Co., 8 Jones, Rochester, N. Y.
Champion Safety Lock Co. ("Champion" Side & "Monitor" "Never Break" Wrought), Geneva, O.
Chicago Hardware Co., North Chicago, Ill.
Corbin, P. & F., New Britain, Conn.
Creamer, W. G. & Co. (Railway Car), 96 John, New York
Fitch, W. & E. T. Co., New Haven, Conn.
Gardner Sash Balance Co. (Steel), 166 Dearborn, Chicago, Ill.
Harley Burglar Proof Ventilating Sash Lock Mfg. Co. (Ventilating), 1394 Ogden av, Chicago, Ill.
Ives, Hobart B. Co., New Haven, Conn.
Lockwood Mfg. Co., South Norwalk, Conn.
Miller Sash Lock Co. (Automatic Ventilating), 408 Olive, St. Louis, Mo.
National Lock Washer Co., 65 Johnson, Newark, N. J.
National Mfg. Co. (All Steel), Sterling, Ill.
Payson Mfg. Co., 1319 W Jackson boul., Chicago, Ill.
Peck, Stow & Wilcox Co., Southington, Conn.
Pullman Mfg. Co., Rochester, N. Y.
Radel Sash Balance & Lock Co., Cincinnati, O.
Reading Hardware Co., Reading, Pa.
Rochester Sash Lock Co. (Automatic Steel for R. R. Coaches), Rochester, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Sargent & Co., 94 Center, N. Y., & New Haven, Conn.
Shelby Spring Hinge Co. ("Shelby" Steel & Brass or Bronze, Polished), Shelby, Ohio
Stover Mfg. Co. (Burglar Proof), Freeport, Ill.
Taylor & Boggis Foundry Co., Cleveland, O.
Wilcox Mfg. Co., Aurora, Ill.
Wolcott Hardware Co., Plantsville, Conn.
Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Sash, Ventilating)

Cannon Mfg. Co., ("Cannon"), 388 La Salle, Chicago, Ill.
Champion Safety Lock Co., Geneva, O.
Climax Lock & Ventilator Co. ("Climax" & "Simplex" Automatic Ventilating), 640 Ellicott sq, Buffalo, N. Y.
Dayton Supply Co., Dayton, O.
Holland Mfg. Co. ("Holland," Ventilating Window), Florence, Mass.
Lawson Mfg. Co. ("Matchless" Automatic Burglar Proof), 40 Dearborn, Chicago, Ill.
Platt-Baker Co., 12 E. 23d, New York.

Lock Mfrs. (Slot Machine)

Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.

Lock Mfrs. (Stall Door)

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

Lock Mfrs. (Store Door)

Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Time)

American Recording Lock Co., Elkhart, Ind.
Barnes Safe & Lock Co., Pittsburg, Pa.
Consolidated Time Lock Co., 315 W. 4th, Cincinnati, Ohio.
Diebold Safe & Lock Co., Canton, O., & 30 Reade, New York
General Railway Signal Co., Rochester, N. Y.
HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index, end of book)
Macneale & Urban Co., Hamilton, O.
Mosler Safe Co., Hamilton, O.
Sargent & Greenleaf Co., Rochester, N. Y.
Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Tool Chest)

Miller, J. B. Keyless Lock Co. ("J. B. Miller's" Keyless), Kent, O.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Trunk & Suit Case,

Abrend, Herman & Son, Newark, N. J.
Corbin Bros. Co., New Britain, Conn.
Corbin Cabinet Lock Co., New Britain, Conn.
Cream City Mfg. Co., Milwaukee, Wis.
Eurake Nut Lock Co. ("Bartley"), 32d & Excelsior Hardware Co., Stamford, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Sargent & Greenleaf Co., Rochester, N. Y.
Star Lock Works, 110 S 8th, Phila., Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

Lock Mfrs. (Wardrobe)

Yale & Towne Mfg. Co., 9 Murray, New York

Lock-Nuts (Brass)

American Pin Co., Waterbury, Conn.
Hamlin & Emery Brass Co., Boston, Mass.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices end of book)
Western Tube Co., Kewanee, Ill.

Lock-Nuts (Conduit, Etc.)

(See Bushings, Outlet & Locknuts)

Lock-Nuts & Washers

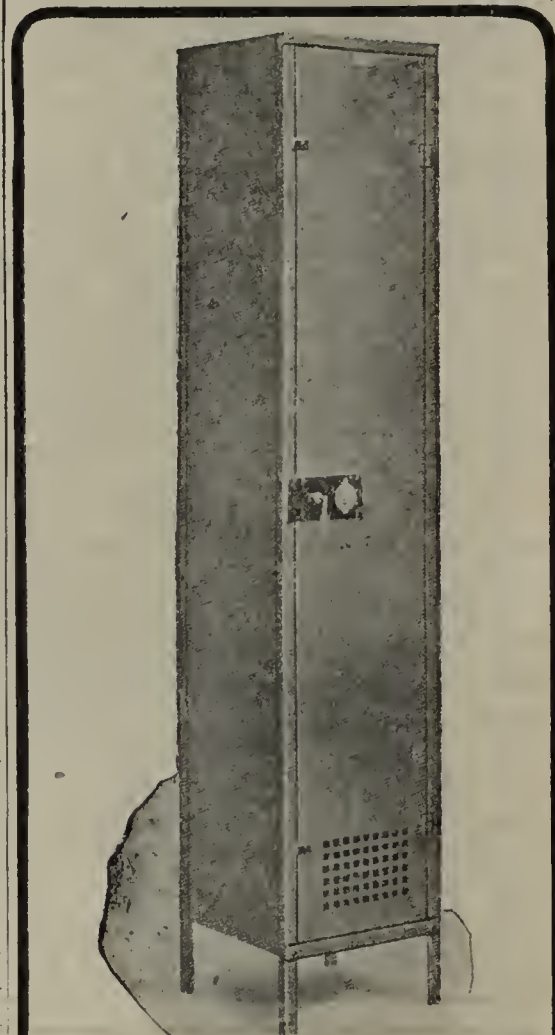
American Lock Nut Co., Oregon, Ill.
American Railway Tie Co., 50 B'way, New York
American Steel Spring Co., 2 Rector, New York
Blessing, Louis (Positive), Jackson, Mich.
Border Bolt & Nut-Lock Co. ("Border" for Tracks, Crossings, Cars, etc.), Richmond Ind
Bourne & Knowles Mfg. Co., Cleveland, O.
Climax Nut Lock Mfg. Co., 1132 Collins, St. Louis, Mo.
Columbia Nut & Bolt Co. ("Columbia" for Railroads, Machinery, Automobiles, etc.), Bridgeport, Conn.
Elastic Nut & Bolt Co. (Self-Locking), Milwaukee, Wis.
Eureka Nut Lock Co. ("aBrtley"), 32d & Grabler Mfg. Co. (Malleable Iron & Steel, for Plumbing & Electric Work), Cleveland, O.
Grip Nut Co. (One-piece Steel), 152 Lake, Chicago, Ill.
Haskell, Wm. H., Mfg. Co., Pawtucket, R. I.
It Lock Nut & Bolt Co., Chicago, Ill.
Jones Positive Nut Lock Co., 2812 Wabash av, Chicago, Ill.
National Lock Washer Co., 65 Johnson, Newark, N. J.
National Tube Co. (Cast & Malleable, for Steam, Water, etc.), Pittsburg, Pa.
Philadelphia Electrical & Mfg. Co. ("Pemco" Malleable Iron Washers with Nut-Locking Feature Added), 1232 N 31st, Phila., Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Positive Lock Washer Co., Ave. A, Newark
Rail Joint Co., 29 W 34th, New York N. J.
Railway Lock Nut Co. ("Bull Dog"), Monack bldg, Chicago, Ill.
Railway Specialty & Supply Co. ("Smith," for Elec. Railways, etc.), 77 Jackson boul, Chicago, Ill.
Ruffner & Son (Automatic, Single & Double), Falls of Schuykill, Phila., Pa.
Scott Mfg. Co., Racine, Wis.
Smith Improved Lock Nut Co. ("Smith," "Never Works Loose," Spring Steel, Oil Tempered, for Railroads, Machinery, etc.), Rockford, Ill.
Solid Steel Tool & Forge Co., Brackenridge, Pa.
Spiral Nut Lock Co., New York
Verona Tool Works ("Verona," Nut-Lock), Murtland bldg, Pittsburg, Pa., & Verona, Pa.
Walker Bros. Co. ("Victor," Cold Punched & Machined, for Machinery, Engines, Automobiles, etc.),

***Lockers (Expanded Metal)**

DARBY, EDW. & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)
GENERAL FIREPROOFING CO., Youngstown, O., & 10 E 33d, New York (See adv. index & branch offices, end of book)
MERRITT & CO., 94 Arch, Camden, N. J. (See adv. index, end of book)

Lockers (Metallic)

Bernstein Mfg. Co., 3d & Allegheny av, Philadelphia, Pa.
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
Canton Art Metal Co., Canton, O.
CINCINNATI MFG. CO. (Wire), 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
COLUMBIA IRON & WIRE WORKS Co., Canton, O. (See adv. index, end of book)



THE HART & COOLEY LOCKER

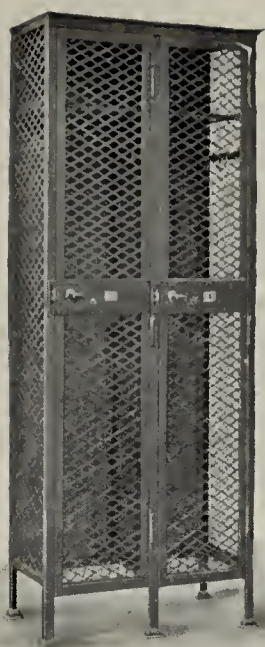
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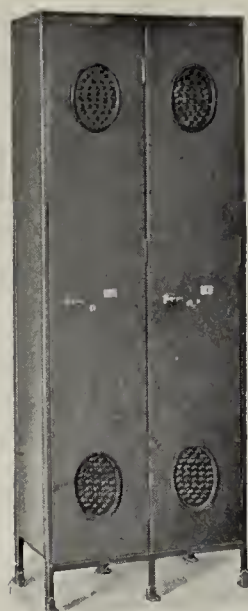
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BINS



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Phila., Pa. (See adv. index, end of book)
DURAND STEEL LOCKER CO. ("Dur-
and Steel"), 128 Monroe, Chicago, Ill., &
132 Nassau, New York. (See adv. index,
end of book)

ESTEY BROS. CO., Liberty & Greenwich,
New York. (See adv. index, end of book)
Federal Steel Fixture Co., ("Federal" Steel),
497 W. Kinzie, Chicago, Ill.

GENERAL FIREPROOFING CO.,
Youngstown, O., & 10 E. 33d, New York.
(See adv. index & branch offices, end of book)

HART & COOLEY CO. ("H. & C.")
Wrought Steel), New Britain, Conn. (See
adv. index & branch offices, end of book)
Jefferts, Richard Co. ("Jefferts," Pressed
Steel), Camden, N. J.

Keighley, S., Metal Ceiling & Mfg. Co., 824
Locust, Pittsburg, Pa.
Library Bureau, 530 Atlantic, Boston, Mass.

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.
Manufacturing, Equipment & Engineering Co.
("Cyl-Me-Co."), 209 Washington, Boston

MERRITT & CO. (Expanded Metal),
94 Arch, Camden, N. J. (See adv. index,
end of book)

MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO. (Wire
& Metal), 500 Howard, Detroit, Mich. (See
adv. index, end of book)

Narragansett Machine Co., Providence, R. I.
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end
of book)

Steel Fixture Mfg. Co., Topeka, Kan.
TAYLOR & DEAN, Penn av & 25th, Pitts-
burg, Pa. (See adv. index, end of book)

TERRELL'S EQUIPMENT CO. ("Ter-
rell's"), Grand Rapids, Mich.

VAN DORN IRON WORKS CO. (Steel),
2685 N 79th, Cleveland, O. (See adv. in-
dex, end of book)

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
index, end of book)

WRIGHT WIRE CO. (Wire & Metal),
Worcester, Mass. (See adv. index & branch
offices, end of book)

*Lockers (Sheet Steel, Imita- tion of Wood Finish)

DAHLSTROM METALLIC DOOR CO.,
Jamestown, N. Y. (See adv. index & branch
offices, end of book)

Lockouts (Telephone Party Line)

Mountain State Electrical Co., Wheeling, W
Va.

Locks (Hasp)

Prouty, T. C. Co. (Ltd.), Albion, Mich.

Locks (Time Recording Door)

Phelps Guardant Time Lock Co. ("Phelps
Guardant"), 74 Cortlandt, New York

Locks (Ventilating, Window)

(See Lock Manufacturers, Sash Ventilating)

Locks & Latches (Sliding Door)

Dayton Mfg. Co., Dayton, O.
Lane Bros. Co., Poughkeepsie, N. Y.
Penn Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Reliance Ball Bearing Door Hanger Co., 1
Madison av, New York

Russell & Erwin Mfg. Co., New Britain, Conn.,
& 96 Lafayette, New York

Sargent & Greenleaf Co., Rochester, N. Y.
Wilcox Mfg. Co. (Self-Closing Fire Door), An-
rora, Ill.

Yale & Towne Mfg. Co., 9 Murray, New York

Locks & Locking Device (Prison Cell)

CHAMPION IRON CO., Kenton, O.
(See adv. index, end of book)
Climax, J. H. W. Co., 275 Passaic, Newark,
N. J.

Ham, L. M. & Co., 152 Portland, Boston, Mass.
Panly Jail Building Co., St. Louis, Mo.
Sargent & Greenleaf Co., Rochester, N. Y.
Stewart Jail Works Co., Cincinnati, O.
Van Dorn Iron Works Co., Cleveland, O.
Yale & Towne Mfg. Co., 9 Murray, New York

Locomotive Bell Ringers

Chicago Pneumatic Tool Co. ("Little Giant,"
Pneumatic), Fisher bldg, Chicago, Ill.
Hammett, M. C. (Air or Steam), Troy, N. Y.
Hegnbottom & Sons (Automatic), Saginaw
Reiter, G. C., Canton, Ohio
Smedley Steam Pump Co. (Automatic), Du-
buque, Iowa

United States Metallic Packing Co. (The Goll-
mar, 427 N 13th, Phila., Pa.

Western Railway Equipment Co., Union Trust
bldg, St. Louis, Mo.

*Locomotive Coaling Stations

(See also Coal & Ore Handling Machinery)

BROWN HOISTING MACHINERY CO.,
4403 St. Clair, N E, Cleveland, O., & 50
Church, New York. (See adv. index, end
of book)

WEBSTER MFG. CO., 1075 W 15th, Chi-
cago, Ill., & 88 Reade, New York. (See
adv. index & branch offices, end of book)

Locomotive Fire Kindler

Railway Materials Co. ("The Ferguson," Port-
able), Old Colony bldg, Chicago, Ill.

*Locomotive Guide Liner

STARRETT, L. S., CO., Athol, Mass. (See
adv. index & branch offices, end of book)

Locomotive Jacket Iron

American Sheet & Tin Plate Co. ("Wood's"
Planished), Frick bldg, Pittsburg, Pa.

Wood, Alan, Iron & Steel Co. (Cold Rolled),
519 Arch, Phila., Pa.

Wood, J., & Bros. Co. (Inc.), Conshohocken,
Pa.

Locomotive Lagging

Carey, Phillip Mfg. Co., Lockland, O.

Franklin Mfg. Co. (Also Air Pump Cylinder
Lagging), Franklin, Pa.

Johns, H. W.-Manville Co. ("Magnesia," "As-
bestos," "Fire Felt"), 100 William, New
York

Keasbey & Mattison Co. (Magnesia & Ashes-
tos). Main Office & Works, Ambler, Pa.
& 100 John, New York

New York Asbestos Mfg. Co., 80 John, New
York

UNITED STATES MINERAL WOOL
Co., 140 Cedar, New York. (See adv. in-
dex, end of book)

WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)

*Locomotive Netting

MICHIGAN WIRE CLOTH CO., De-
troit, Mich. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., &
11 B'way, New York. (See adv. index &
branch offices, end of book)

Locomotive Oil Cups

(See also Lubricators, Oil & Grease Cup)

Detroit Lubricator Co., Hodges bldg, Detroit,
Mich.

Kelly & Jones Co., 135 Water, Pittsburg, Pa.
LUNKENHEIMER CO., General Of-
fices, Beekman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of book)

Michigan Lubricator Co. ("Michigan"), De-
troit, Mich.

Powell, Wm. Co., 2529 Spring Grove av, Cin-
cinnati, O

Locomotive Sanders

(See also Boxes, Sand)

American Locomotive Sander Co. ("Leach,"
"Dean," "Houston," "She," "Curtis,"
"Sherbourne" & "Austin"), 13th & Wil-
low, Phila., Pa.

Economy Sander Co., 26 S Charles, Baltimore,
Md

Hanlon Locomotive Sander Co. ("Hanlon")
Winchester, Mass

Jewett Car Co., Newark, O.
MACLEOD, WALTER, & CO. (Pneumatic),
213 E Pearl, Cincinnati, Ohio. (See adv.
index, end of book)

Mann-McCann Co. ("N. W." Air), Fisher bldg,
Chicago, Ill.

Ridlon, Frank Co. ("Kilbourne"), 251 A,
Boston, Mass.

Traction Equipment Co. ("Hammond," also
"Street Corner Sander"), 72 Grand av,
Brooklyn, N. Y.

United Railroad Equipment Co. ("I. X. L.")
Automatic., Baltimore, Md.

Western Railway Equipment Co. (Mudd Pneu-
matic Track Sanders), Missouri Trust bldg,
St. Louis, Mo.

Locomotive Spring Balances

Star Brass Mfg. Co., 103 E Dedham, Boston,
Mass.

Locomotive Stokers

Day-Kincaid Stoker Co. ("The Kincaid"), Cin-
cinnati, O.

Locomotive Stoker Co., 204 Dearborn, Chicago,
Ill.

Locomotive Tiles

Akron Fire Brick Co., Akron, O.

American Locomotive Equipment Co. ("Wade-
Nicholson," Hollow Arch, etc.), Railway
Exchange bldg, Chicago, Ill.

Buckeye Fire Clay Co., Uhrichsville, O.
Chicago Retort & Fire Brick Co., 45th & Clark,
Chicago, Ill.

Denny-Renton Clay & Coal Co., Seattle, Wash.
Denver Fire Clay Co., 1742 Champa, Denver,
Col.

Evans & Howard Fire Brick Co., 920 Market,
St. Louis, Mo.

FISKE & CO. (Inc.), 25 Arch, Bos-
ton, Mass., & Flat Iron bldg, New York.
(See adv. index, end of book)

Fulton Fire Brick Co., Fulton, Mo.

Garden City Sand Co., Chamber of Commerce
bldg, Chicago, Ill.

Garfield Fire Clay Co., Robinson, Pa.
Harbison-Walker Refractories Co., Farmers'
Bank bldg, Pittsburg, Pa., & 1133 B'way,
New York

Laclede-Christy Clay Products Co., St. Louis,
Mo.

Lincoln Fire Brick & Shape Co., 1st Nat'l Bk
bldg, Pittsburg, Pa.

MAURER, HENRY & SON, 420 E 23d,
New York; Penna bldg, Philadelphia, Pa.;
Works, Maurer, N. J. (See adv. Front in-
side Cover)

MISSISSIPPI GLASS CO., 115 B'way,
New York. (See adv. index & branch
offices, end of book)

Mutton Hollow Fire Brick Co., Woodbridge,
N. J.

NATIONAL FIREPROOFING CO., Fulton
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)

National Pyrogranit Co., 17 Battery pl, New
York

Newton-Perkins Fire Brick Co., Albany, N. Y.
Ostrander Fire Brick Co., 309 2d, Troy, N. Y.
Parker-Russell Mining & Mfg. Co., St. Louis,
Mo.

Perth Amboy Fire Brick Co., Perth Amboy,
N. J., & 42 B'way, New York

Remmey, Richard, Sons Co., 2637 E Cumberland,
Phila., Pa.

RUTLAND FIRE CLAY CO., Rutland,
Vt. (See adv. index & branch offices, end of
book)

St. Louis Vitrified & Fire Brick Co., St. Louis,
Mo.

Stevens, H., Sons Co., Macon, Ga.
Superior Fire Lining Co., Trenton, N. J.
Tygart Fire Brick Co., Fullerton, Ky.

Washington Brick, Lime & Mfg. Co., Spokane,
Wash.

Locomotive Water Cranes

(See Cranes, Locomotive Water)

*Locomotive Weighing Appara- tus (Portable)

MACLEOD, WALTER, & CO., 213 E Pearl,
Cincinnati, O. (See adv. index, end of
book)

Locomotives

American Locomotive Co., 30 Church, New
York

Baldwin Locomotive Works, 500 N Broad,
Phila., Pa.

DAVENPORT LOCOMOTIVE WORKS,
(Contractors', Mine, etc.), Davenport, Ia.,
& 50 Church, New York. (See adv. index,
end of book)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Helsler Locomotive Works, Erie, Pa.
Hicks Locomotive & Car Works, 277 Dearborn Chicago, Ill.

Kilby Locomotive & Machine Works (Logging), Andiston, Ala.

KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lima Locomotive & Machine Co., Lima, O.

MARYLAND EQUIPMENT & SUPPLY Co., (Second Hand), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Porter, H. K. Co., Union B'k bldg, Pittsburg, Pa.

SHAW, WILLIS CO. (New & Second-Hand, All Kinds), 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Vulcan Iron Works, Wilkes-Barre, Pa.

WESTINGHOUSE ELECTRIC & MFG. Co. (Electric), Pittsburg, Pa. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Locomotives (Compressed Air)

Baldwin Locomotive Works, 500 N Broad, Phila., Pa.

KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Porter, H. K. (Industrial), Union Bank bldg, Pittsburg, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER COMPANY.

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Locomotives (Contractors')

(See Locomotives, Industrial & Mine)

Locomotives (Dirt Road)

Avery Mfg. Co. ("18, 20, 22 & 30 H. P."), Buffalo Pitts Co., Buffalo, N. Y. Peoria, Ill.
Geiser Mfg. Co., Waynesboro, Pa.
Longenecker, Chas. & Co., 150 Nassau, New York

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Port Huron-Engine & Thresher Co. (Tracton), Port Huron, Mich.

Russell & Company, Massillon, O.

Locomotives (Electric)

American Locomotive Co., 30 Church, New York

ATLAS CAR & MFG. CO., THE, 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)

Baldwin Locomotive Works, 500 N Broad, Phila., Pa.

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Goodman Mfg. Co., S Halsted & 48th pl, Chicago, Ill.

Hunt, C. W., Co. (For Industrial Railways), West New Brighton, S. I., N. Y.

JEFFREY MFG. CO. (Industrial, Mine, etc.), Columbus, O. (See adv. index & branch offices, end of book)

KOPPEL, ARTHUR CO. (Industrial), Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

McGuire-Cummings Mfg. Co., 112 N Sangamon, Chicago, Ill.

MEAD-MORRISON MFG. CO., Cambridge, Boston, Mass. (See adv. index, end of book)

Porter, H. K. Co. (For Industrial Railways), Pittsburg, Pa.

Robins Conveying Belt Co. (Storage Battery), 30 Church, New York

WATSON, BENJAMIN (Second Hand), 66 Beaver, New York. (See adv. index, end of book)

WESTINGHOUSE ELECTRIC & MFG. Co. (Single-Phase), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Locomotives (Electric, Mine Haulage)

American Locomotive Co., 30 Church, New York

Baldwin Locomotive Works, 500 N Broad, Philadelphia, Pa.

Conveying Machinery Co., 120 Liberty, New York

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Goodman Mfg. Co., S Halsted & 48th pl, Chicago, Ill.

Hunt, C. W. Co. (For Mine Haulage), West New Brighton, S. I., N. Y.

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Morgan-Gardner Electric Co., 2640 Shields av, Chicago, Ill.

WESTINGHOUSE ELECTRIC & MFG. Co. (Single Phase), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Locomotives (Gas)

Milwaukee Locomotive Mfg. Co., North Milwaukee, Wis.

Locomotives (Gasoline)

Ducas & Co., 114 Liberty, New York

FAIRBANKS, MORSE & CO., Wabash av & Eldrege pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Sheffield Car Co., Three Rivers, Mich.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Locomotives (Geared)

Byers, Jno. F. Machine Co., Ravenna, O.

Climax Mfg. Co. ("Climax"), Corry, Pa.

Helsler Locomotive Works, Erie, Pa.

Lima Locomotive Machine Co., Lima, O.

Locomotives (Industrial & Mine)

(See also Locomotives, Electric Mining)

American Locomotive Co., 30 Church, New York

Byers, Jno. F. Machine Co. (Geared), Ravenna, Ohio

CAREY, GEO. H. (New and Second Hand), 1 B'way, New York. (See adv. index, end of book)

CARLIN'S, THOS. SONS Co. (Industrial Only), 1610 River av (North Side), Pittsburg, Pa. (See adv. index, end of book)

Climax Mfg. Co. (Tramway), Corry, Pa.

Conveying Machinery Co., 120 Liberty, New York

DAVENPORT LOCOMOTIVE WORKS, Davenport, Ia., & 50 Church, New York. (See adv. index, end of book)

Glover Machine Works, Marietta, Ga.

Helsler Locomotive Works (Geared), Erie, Pa.

Hunt, C. W., Co., W Brighton, S. I., N. Y.

JEFFREY MFG. CO. (Electric), Columbus, O. (See adv. index & branch offices, end of book)

KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lima Locomotive & Machine Co. ("Shuy" Geared), Lima, O.

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Porter, H. K. Co. (Steam, Electric & Pneumatic), Union Bank bldg, Pittsburg, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.

WESTINGHOUSE ELECTRIC & MFG. Co. (Electric), Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

LOCOMOTIVES

WE HANDLE SECOND-HAND LOCOMOTIVES OF ALL TYPES AND SIZES, AND USUALLY HAVE SOME VERY ATTRACTIVE BARGAINS IN THESE. LET US FIGURE ON YOUR REQUIREMENTS.

WILLIS SHAW CO., MACHINERY, 171 LA SALLE STREET, CHICAGO, ILL.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES. ERNST WIENER -COMPANY-

475 Fulton bldg. New York. (See adv. index & branch offices, end of book)
Wonham, Magor & Sanger ("Porter"), 30 Church, New York

Locomotives (Logging)

American Locomotive Co., 30 Church, New York
CAREY, GEO. H. (New & Second Hand), 1 B'way, New York. (See adv. index, end of book)

Climax Mfg. Co. (Tramway), Corry, Pa.
DAVENPORT LOCOMOTIVE WORKS, Davenport, Iowa, & 50 Church, New York. (See adv. index, end of book)

Dilley Foundry Co., Pine Bluff, Ark.
Helsler Locomotive Works, Erie, Pa.

Hicks Locomotive & Car Works, 277 Dearborn, Chicago, Ill.
Kilby Locomotive & Machine Works, Anniston, Ala.

KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lima Locomotive & Machine Co. ("Shay" Geared & Direct Connected), Lima, O.

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Pigott, Wm. Railway & Steel Supply Co., Seattle, Wash.

Porter, H. K. Co., Union B'k bldg., Pittsburg, Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES. ERNST WIENER -COMPANY-

475 Fulton bldg. New York. (See adv. index & branch offices, end of book)
Wonham, Magor & Sanger ("Porter"), 30 Church, New York

*Locomotives (New & Second-Hand)

SHAW, WILLIS CO., 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Locomotives (Oil Burning)

American Locomotive Co., 30 Church, New York
Baldwin Locomotive Works, 500 N Broad, Philadelphia, Pa.

DAVENPORT LOCOMOTIVE WORKS, Davenport, Iowa, & 50 Church, New York. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Porter, H. K., Co., Union Bank bldg., Pittsburg, Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES. ERNST WIENER -COMPANY-

475 Fulton bldg. New York. (See adv. index & branch offices, end of book)

Locomotives (Pneumatic)

(See Locomotives, Compressed Air)

*Locomotives (Rack Rail)

JEFFREY MFG. CO. (Electric), Columbus, O. (See adv. index & branch offices, end of book)

Locomotives Rebuilt

East St. Louis Locomotive & Machine Shop Co., East St. Louis, Mo.

HICKS LOCOMOTIVE & CAR WORKS, 277 Dearborn, Chicago, Ill.

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Raleigh Iron Works Co., Raleigh, N. C.

Rothfuss-Howard Iron Works, Williamsport, Pa.

Southern Locomotive & Car Mfg. Co., Valdosta, Ga.

Locomotives (Road)

(See Locomotives, Dirt Road)

Locomotives (Second Hand)

(See Railroad Equipments, Second Hand)

*Locomotives (Storage Battery)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Locomotives (Traction)

(See Locomotives, Dirt Road)

Locomotives & Railways (Miniature)

Cagney Bros., 72 B'way, New York
Crescent Machine Co. (Scenic Railways), 1152 Trumbull av., Detroit, Mich.

Girard Machine Works (15-inch gauge), 2610 Girard av., Phila., Pa.

Herschell-Spillman Co., No. Towanda, N. Y.

Ingersoll Construction Co., 307 4th av., Pittsburg, Pa.

Mangels, Wm. F. (Third Rail), 2041 W. 5th, Brooklyn, N. Y.

Miniature Railway Co., 72 B'way, New York

Morris, E. Joy, 1416 Callowhill, Phila., Pa.

Thompson, L. A. Scenic Railway Co., 302 B'way, New York

Parker, C. W., Abilene, Kan.

Log Hauls

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Sawmill Machinery Co. ("American" Friction), 50 Church, New York. Works, Hackettstown, N. J.

Bay City Iron Co., Bay City, Mich.

Chandler & Taylor Co., Indianapolis, Ind.

Curtis & Co. Mfg. Co., St. Louis, Mo.

Diamond Iron Works ("Diamond" Steam & Car Hauls), Minneapolis, Minn.

Henderson, W. K. Iron Works & Supply Co., Shreveport, La.

Lane Mfg. Co., Montpelier, Vt.

Link Belt Co., W. 39th & Stewart av., Chicago, Ill. & 299 B'way, New York

Mecklenburg Iron Works, Charlotte, N. C.

Memphis Machine Works, Memphis, Tenn.

Phoenix Mfg. Co., Eau Claire, Wis.

Puget Sound Iron & Steel Works, Tacoma, Wash.

Southern Engine & Boiler Works, Jackson, Tenn.

Union Iron Works, Bangor, Me.

Wickes Bros., Saginaw, Mich.

Log Hooks or Timber Carriers

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Champion Tool & Handle Co., Evert, Mich.

Gerlach, Peter Co., 1708 Columbus rd., Cleveland, O.

Howard Iron & Tool Co., Howard, Pa.

Jackson Shovel & Tool Co. ("Acme"), Montpelier, Ind., & Market & Randolph, Chicago, Ill.

Lane Mfg. Co., Montpelier, Vt.

Morley Bros., Saginaw, Mich.

Oshkosh Logging Tool Co., Oshkosh, Wis.

Seranton Bolt & Nut Co., Seranton, Pa.

Standard Chain Co., Ross & 3d av., Pittsburg, Pa.

Warren Axe & Tool Co., Warren, Pa.

Log Jackers

Buhl Malleable Co., Detroit, Mich.

Garland, M. Co., Bay City, Mich.

Lane Mfg. Co., Montpelier, Vt.

Link Belt Co., W. 39th cor. Stewart av., Chicago, Ill. & 299 B'way, New York

Phoenix Mfg. Co., Eau Claire, Wis.

Wickes Bros., Saginaw, Mich.

Log Loaders (Steam)

(See Loaders, Log)

Log Rollers

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Diamond Iron Works ("Diamond" Steam & Automatic), Minneapolis, Minn.

Filler & Stowell Co., Home Office, Milwaukee, Wis.

Garland, M., Co. ("The Kilne"), Bay City, Mich.

Lane Mfg. Co., Montpelier, Vt.

Lyon Iron Works, Greene, N. Y.

Murray, D. J. Mfg. Co., Wausau, Wis.

Wickes Bros., Saginaw, Mich.

Log Turners

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Sawmill Machinery Co. ("American"), 50 Church, New York. Works, Hackettstown, N. J.

Challoner Co. ("Simouson"), Oshkosh, Wis.

Chandler & Taylor Co., Indianapolis, Ind.

Curtis & Co. Mfg. Co., St. Louis, Mo.

Edwards Mfg. Co., Laceyville, Pa.

Filler & Stowell Co., Home Office, Milwaukee, Wis.

Garland, M., Co., Bay City, Mich.

Hamilton, Wm., Mfg. Co. (The "Simondson"), Peterboro, Ontario, Canada

Lane Mfg. Co., Montpelier, Vt.

Memphis Machine Works, Memphis, Tenn.

Moltz, Jacob J., Williamsport, Pa.

Phoenix Mfg. Co. (Hills), Eau Claire, Wis.

Rockwood Mfg. Co., Indianapolis, Ind.

Southern Engine & Boiler Works, Jackson, Tenn.

Trumbull Mfg. Co., Warren, O.

Wheland Machine Works, Chattanooga, Tenn.

Wickes Bros., Saginaw, Mich.

Logging by Steam

(See Cableways, Wire Rope; also Log Hauls; also Engines, Logging)

Logging Cars

(See Cars, Logging)

Logging Railways

(See Railways, Industrial & Portable)

Logs (Ship)

Nicholson Ship Log Co., 409 Superior av., N W, Cleveland, O.

Loose Leaf Specialties

American Loose Leaf Co., New York City
Baker-Vawter Co. (Ledgers), Tribune bldg., Chicago, Ill.

Benton Mfg. Co., 9 Bethune, New York

Conolly, Henry Co., Rochester, N. Y.

C. S. & R. B. Co. ("C. S. & R. B." Post Binders & Aluminum Holders), Armour & Kluzle, Chicago, Ill.

Dudley Mfg. Co. ("Dudley" Loose Leaf, Book Pad & Copy Holder), Marion, O.

Edwards Hine Co. ("Prondit" Price Book, etc.), Grand Rapids, Mich.

Gaylord Bros., Rochester, N. Y.

Gerlach, J. H., College Point, N. Y.

Globe-Wernicke Co., 124 W 8th, Cincinnati, O.

Gregg, Wm. T., 227 Pearl, New York

Helium Specialty Co. (Ledgers), 19 Erie, Milwaukee, Wis.

Irving-Pitt Mfg. Co. ("I-P" Ring binder for Loose Leaf Ledgers, etc.), Kansas City, Mo.

Kalamazoo Loose Leaf Binder Co., 314 Kalamazoo av., Kalamazoo, Mich.

Laxit Loose Leaf Co., 515 Main, Cincinnati, O.

McDonald, J. S. Co. (Gravity-Lock Binders), 611 Irving Park bldg., Chicago, Ill.

Mann, Wm., Co., Philadelphia, Pa.

Morden Mfg. Corporation, Waterbury, Conn.

Nelson Corporation ("Banner" Line), 69 Wells, Chicago, Ill.

Ruzall, H. G. Mfg. Co. (Ledgers), 383 Water, Milwaukee, Wis.

Richmond & Buckus Co. (Ledgers), Detroit, Mich.

Sheppard, C. E. & Co., 63 Cliff, New York

Stielor & Trussell Mfg. Co., 4001 Laclede av., St. Louis, Mo.

Smith, Chas. C., Exeter, Neb.

Sparks, Walter (Punches for Round Holes, Slotting & Crimping Loose Leaves), 12 Dutch, New York

Tatum, Sam'l C. Co. (Books, Paper Punches, etc.), Cincinnati, O.

Tengwall File & Ledger Co., 1410 E Ravenswood, Chicago, Ill.

Trussell Mfg. Co. (Memo. Books, etc.), 108 Fulton, New York

Twiblock Co., 95 Duane, New York

Wiggles, Jno. B. Co., 14 E Adams, Chicago, Ill.

Lounge Feet

Universal Caster & Foundry Co. (Copper Bronzed), 1170 B'way, New York

Low Water Alarms for Boilers

(See Alarms, Low Water, for Boilers)

Lubricants (Automobile)

Borne, Serysmer & Co. ("Diamond W"), 80 South, New York
Canton Lubricator Mfg. Co. (Grease), Canton, O.
Climax Refining Co., Williamson bldg., Cleveland, O.
DIXON, JOS. CRUCIBLE CO. ("Dixons" Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)
Harris, A. W. Oil Co. ("Harris" Oils & Greases), Providence, R. I.
Hughes Anti-Friction Co. (Grease), 196 State, Boston, Mass.
Robinson, Wm. C., & Son Co. ("Autoline"), Baltimore, Md.
Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York
Union Petroleum Co., 135 S 2d, Phila., Pa.
White & Bagley Co. ("Ollzum" Carbonless Cylinder Oils), Worcester, Mass.

Lubricants (Commutator)

(See Compounds, Commutator)

Lubricants (Gas Engine)

(See Lubricants, Automobile; also Lubricating Oils & Greases)

Lubricants (Graphite)

Acheson Oildag Co. ("Oildag"), Niagara Falls, N. Y.
DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)
Force Feed Lubricating Co., Milwaukee, Wis.
Harris, A. W. Oil Co. ("Harris" Graphite Grease), Providence, R. I.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
International Acheson Graphite Co., Niagara Falls, N. Y.
Monarch Mfg. Co. ("Chaunellene" Graphite Oil), Council Bluffs, Ia.
Standard Graphite Co., 11 B'way, New York
U. S. Graphite Co., Saginaw, Mich.

Lubricants (Mica)

United States Mica Co. (Flake Lubricant), 238 La Salle, Chicago, Ill.
Warren Mica Lubricant Co., Warren, Pa.

Lubricants (Wire Rope)

(See Wire Rope Coating & Lubricant)

Lubricating Oils & Greases

CALIFORNIA.

LOS ANGELES—Hercules Oil Refining Co.
Southern Refining Co. (Oils)
Unlou Oil Co.
Warren & Bailey Mfg. Co. (Oils)
SAN FRANCISCO—American Oil & Paint Co., 67 Main
Bull's Head Oil Works (Cylinder, Engines, Spludle, Dynamo, Oils, Cup Greases, Clinch, C. G. & Co., 156 King etc.)
DIXON, JOS. CRUCIBLE CO., 304 Market. (See adv. index, end of book)
Fuller, W. P. & Co., Beale & Mission
King-Keystone Oil Co. (Engine, Cylinder, etc.), 90 Clay
McGuffick, J. R. & Co. (Oils), 148 Stenart
Nason, R. N., & Co., 151 Poutrero av
Valvoline Oil Co., 440 Brannon
Whittier-Coburn Co., Howard & Beale

CONNECTICUT.

HARTFORD—Post & Lester Co. ("Lubro Visco"), 20 Sargeant

GEORGIA.

SAVANNAH—Crew-Levick Co. (Oils)

ILLINOIS.

AURORA—Akron Mining, Milling & Mfg. Co.
CHICAGO—Advance Packing & Supply Co. ("Autoleum"), 123 Franklin
American Lubric & Refining Co. ("Crescent"), 138 Jackson blvd
Besly, Chas. H. & Co. ("Helmet" Oil), 15 S Clinton
Champion Oil Co. (Engine, Valve & Car Oils, etc.), 879 W 39th
Chicago Engineer Supply Co., 112 Lake
Crescent Linseed Oil Works (Natural Lubricating Oils), 54 W Division
Crew-Levick Co., 426 Hawthorn
Dearborn Drug & Chemical Works ("Fort Clyde," "Fort Dearborn," "Fort Douglass," "Fort Sheridan" & "Fort Snelling"), 145 Van Buren
Diamond Compound Co. (Oils), 1243 32d pl
DIXON, JOS. CRUCIBLE CO., Monadnock blk. (See adv. index, end of book)
Jenkins, Geo. R. & Co. (Engine, Cylinder, Dynamo, Machine, Oils & Cnp. Auto Greases, etc.), 445 So. Canal
Keystone Oil & Mfg. Co., 47 E Division
Magle Bros., 9 N Canal
Miller, Wm. P., Co., 35 River
Penn Oil & Supply Co., 293 N Branch
Producers' Refining Co., 54 La Salle
Speare's, Alden, Sons Co., 22 5th av
Standard Oil Co., 115 Adams
Star Oil Co., 307 S Desplaines
Stuart, D. A. & Co., 447 Illinois
Sullivan Oil Co., 48 N Wells
Superior Oil Co., 532 E Division
Viscosity Oil Co., 21 River
Winne, Howard B., 138 Washington
QUINCY—Richardson Lubricating Co. ("Superme," "Keystone")

INDIANA.

INDIANAPOLIS—Crescent Oil Co.
Miller Oil & Supply Co.
Tiona Refining Co.

IOWA.

COUNCIL BLUFFS—Monarch Mfg. Co.
MARSHALLTOWN—Marshall Oil Co. ("Rex" Ice Oil for Railroad Signals, etc.)

KENTUCKY.

COVINGTON—Standard Oil Co. of Kentucky
LOUISVILLE—Kentucky Refining Co. (Oil)
Standard Oil Co. (of Kentucky)

LOUISIANA.

NEW ORLEANS—Record Oil Refining Co.

MAINE.

PORTLAND—Little, F. H. Oil Co. (Oil)

MARYLAND.

BALTIMORE—Bragonier, A. C. & Son, (Oils) 423 East
Hook, C. H. & Co., Bank & 4th
Hopkins, John Oil Co. (Cylinder & Engine Oils, etc.)
Lubric Oil Co. (Oils & Greases), Eastern av & Duncan
MacNeal, Jas. B. & Co. (Engine, Machine & Cylinder Oils, etc.)
New York Lubricating Oil Co., American Bldg
Patapasco Oil & Grease Co., 109 Cheapside
Red "C" Oil Mfg. Co., 111 Cheapside
Robinson, Wm. C. & Son Co. ("Autoline" Cylinder, Engine, Spindle & Dynamo Oils)
Sherwood Bros., Bank & 8th
Southern Oil Co., Columbia av & B. & O R. R.
Tiona Oil Co. (Cylinder Oils, etc.), 314 N Holliday

MASSACHUSETTS.

BOSTON—Boston Oil & Gasoline Co., 145 Kingston
Chesterton, A. W. & Co. (Oils & Greases), 64 India
Colonial Lubric. Oil Co., 78 India
Crane, L. M. & Co., 91 Oliver
Curry Oil & Supply Co., 284 Franklin
DIXON, JOS. CRUCIBLE CO., 101 Tremont. (See adv. index, end of book)
Eagle Oil & Supply Co. ("Eagleine"), 104 Broad
Hughes, Anti-Friction Co., 196 State
Jenny Mfg. Co., 8 India
Kehew-Bradley Co., 24 Purchase

MacLean-Brandon Oil & Supply Co., 63 Long Wharf
Macomber, Henry S. & Co., 150 Milk
Mardeu, Orth & Hastings, 225 Purchase
Masury, Young & Co. (Wool Oils, Lubricating Greases, etc.), 198 Milk
Patterson Lubricating Co. ("Patterson," "Lubric" & "Keystone" Greases & Oils), 114 Broad
Speare's, Alden Sons Co., 369 Atlantic av
Tide Water Oil Co., 74 Broad
Underbay Oil Co., 73 Batterymarch
Vacuum Oil Co., 49 Federal
Valvoline Oil Co., 27 State
Vestal Oil Co., 28 New
Whitney, G. F. Co. (Oils), 59 Long Wharf
Wood, W. A. Co., 373 Atlantic av
Young, Frank L. & Kimball (Oils), 111 Purchase

FITCHBURG—Snow Flake Axle Grease Co. ("Snow Flake")

NEW BEDFORD—Nye, Wm. F. (Oils Only)
Robinson, Wm. A. Co. Fish Island

NEWTON—Knowlton Packing Co. ("Lubron" Grease)

PALMER—Buck, E. A. & Co. (Oils)

WORCESTER—Dixon, Rufus S.
Fairbanks & Boynton Co., 49 Vine
Pierce & Rice Oil Co., 554 Park av
White & Bagley Co. ("Royal Worcester Ollzum"), 100 Foster

MICHIGAN.

DETROIT—Detroit Refining Co., Majestic bldg
Pattison & Ellis (Oils), 213 Jefferson av
Wing, J. T. & Co., 19 Woodward av
FLINT—Michigan Paint Co. ("Se-Tab")
SAGINAW—U. S. Graphite Co. ("Grafta"), 1430 Holland av

MINNESOTA.

MINNEAPOLIS—Climax Refining Co. (Oils)
Crescent Oil Co., 718 N 1st
Kunz Oil Co., 12 Wilder
Nott, W. S. Co. ("Imperial" Oils), Minneapolis, Minn.
Twinn City Oil Co. (Oils & Greases), 224 N 1st
Western Oil Co. (Oils & Greases), 2824 S 10th av
ST. PAUL—Channellene Oil & Mfg. Co. (Oils & Greases)

MISSOURI.

KANSAS CITY—Channellene Oil & Mfg. Co.
Keystone Oil Co. (Oils & Greases)
ST. LOUIS—Chappell Oil & Grease Co., 200 N Commercial
Crescent Oil & Supply Co. (Oils), 303 N Main
DIXON, JOS. CRUCIBLE CO., Victoria bldg. (See adv. index, end of book)
Jones, Geo. P. & Co. (Oils), 704 N Main
McGuire, Nat. L. Oil & Supply Co., Market & Commercial
Matthews, Geo. T. & Co. (Oils), 20 N Main
Mound City Oil & Supply Co., 204 N Commercial
Northrup Lubricating Oil Co., 308 N Commercial
Waters-Pierce Oil Co., Bank of Commerce bldg

NEW JERSEY.

BAYONNE—Arnold Mfg. Co. (Oils & Grease)
CANDEN—Pittsburg & Philadelphia Oil & Refining Co.
ELIZABETH—Ellis, W. A., & Son (Oils), Ellis av & Front
HARRISON—Diamond Compound Co. (Inc.)
JERSEY CITY—Anchor Refining Co.
DIXON, JOS. CRUCIBLE CO. (See adv. index, end of book)
Frazer Lubricator Co., 179 15th
Hudson Oil & Supply Co.
NEWARK—American Oil & Supply Co., 52 Lafayette
Diamond Compound Co. ("Calypsol"), Middlesex, cor 2d
Flske Bros. Refining Co. ("Luhroline"), 115 Lister av
Graphite Non-Friction Lubricants Co., 43
Haas Bros. Co., 15 Clinton Lawrence
Sheppard, W. S. ("Ideal"), 21 Lawrence
Young, Orlando W. (Young's), 174 Frelinghuysen

RAHWAY—Tingley, Chas. O. & Co. (Ball Bearing)

NEW YORK.

ALBANY—Bleeker & Godley, 13 Hudson av
Four Bros. Independent Oil Co.
Higgins, Robert, 30 Orange
Wing, Robert, & Son, 335 B'way
BINGHAMTON—Binghamton Oil Refining Co.
Tiona Oil Co.

BUFFALO—Buffalo Oil & Grease Works, 146 Mohican av
 Buffalo Refining Co. (Oils & Greases), 77 Main bldg
 Cataract Refining & Mfg. Co., Mutual Life
 Commercial Oil Co., 17 Main
 Enterprise Oil & Supply Co., 2 Ohio
 Foote, W. H. & Co., 22 Maurice
 Hoffman Oil Co., 16 Elk
 Hosmer, G. A. Co., 375 Ellicott
 Ideal Oil Co., 931 Clinton
 Shining Light Mfg. Co. (Oils & Greases), 90 Main S Railroad

MOUNT VERNON—Draper, Walter H. Co., 120 S Railroad

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Miller, Wm. P. Co. ("Victory," "American," "Shields" & "Universal"), 244 Greene
 Newton, A. E. & Co., 333 Bond

Boroughs of Manhattan & Bronx.

NEW YORK—Alexander, H. T., & Co., 17 State
 Belden, A. G. & Co. (Importers & Exporters), 145 Maiden lane
 Benners, E. H. Co., 32 Front
 Bliven & Carrington, 116 Broad
 Borne, Scrymmer & Co. ("Sillex" & "Colonial"—Greases, "Turbol" for Turbines; also Engine, Cylinder & Car Oils, etc.), 80 South
 Callahan, Geo., & Co., 218 Front
 Carpenter, W. D., Co. ("Graphilo," a Pure Crystalline Graphite Product), 39 Cortlandt
 Chard & Howe, 253 Front
 Clarkson & Ford Co. ("Banner"), 55 Water
 Cole, G. W. Co. ("Three-in-One"), 42 B'way
 Colgan Mfg. & Supply Co. ("Colgan" Lubricating Ball), 42 South
 Columbia Lubricants Co. ("Monogram"), Columbia Oil Co., 15 William 116 Broad
 Columbia Refining Co., 90 West
 Cook & Cokefair, 306 Pearl
 Cook's, Adam Sons ("Albany Grease" & Albany Cylinder Oil), 313 West
 Corning, Arthur W., 251 Front
 Crew-Levick Co., 69 Wall
 Crosby Lubricating Co., 1170 B'way
 Dearborn Drug & Chemical Works (of Chicago, Ill.), 299 B'way
 Dingee, M. H. & Co., 254 Water
DIXON, JOS. CRUCIBLE CO., 68 Reade. (See adv. index, end of book)
 Duryea Mfg. Co., 69 Wall
 Faul, Wm. J. Co., 135 Front
 Ferguson, Albert, 602 W 30th
 Fiske Bros. Refining Co. ("Lubroleine"), 15 Old Slip
 Frazer Lubricator Co. (Grease), 83 Murray
 Freeman, Robert J., 12 N William
 French Lubricating Oil Co., 3 Gouverneur
 Galloway, G. W. ("Velocity"), 322 Pearl
 German Oil Co., 154 Nassau
 Haggerty Refining Co., 50 South
 Havemeyer Oil Co. ("Havoline"), 78 Broad
 Haws, Geo. A. "Nox-Ail," "Panhard", 73
 Hsley, Doubleday & Co., 229 Front Pine
 Kanter, R. J. Co. ("Horseline" & "E. & K."), 647 Water

Kellogg, E. H. & Co. ("Anti-Corrosive," Cylinder, Dynamo & Spindle Oils, etc.), 243
 Kuline-Libby Co., 60 Water South
 Leibold's, John Sons, 197 Prince
 Manhattan Oil Co., 51 Front
 Muschner, Jos. G. & Co., 156 Maiden lane
 National Oil Works, 121 Broad
 New York Lubricating Oil Co., 116 Broad
 New York & New Jersey Lubricant Co. ("Non-Fluid"), 14 Church
 Pattberg, F. L., 147 Maiden la
 Pennsylvania & Delaware Oil Co. (Oils Only), 82 Beaver
 Pigot, Sayre & Co. ("Aurora"), 135 William
 Platt & Washburn Refining Co., 58 Pearl
 Pulver, Peter & Sons ("Diamond P."), 214 Franklin

Quimby, J. L. & Co., 278 Water
 Reliance Oil & Grease Co., 50 South
 Royal Lubricating Oil Co., 116 Broad
 Sharpe & Co., 31 South
 Smith, Thomas, Jr., 25 New Chambers
 Smith & Nichols, 48 South
 Sonneborn's, L., Son's (Inc.) ("Amalia," All Kinds of Oils & Greases), 262 Pearl
 Speare's, Alden Sons Co., 253 B'way
 Standard Oil Co. (Petroleum Lubricants & "Arctic" Grease), 555 W 25th
 Star Lubricating Co. ("Peerless"), 232 W
 Steck, Henry L., 154 Cherry 28th
STRONG MACHINERY & SUPPLY Co. ("Strong's" E-Z-EE Slip, "Strong's" Graphite Grease), 48 Franklin. (See adv. index, end of book)

Swan, Alden S. & Co., 138 Front
 Swan & Finch Co. ("Resista"), 151 Maiden la
 Texas Co., 17 Battery pl
 Tidewater Oil Co. (Petroleum Lubricants), 11 B'way
 Union Excelsior Lubricating Co., 284 Pearl
 Utility Co. ("Gre-Solvent"), 636 W 44th
 Vacuum Oil Co., 29 B'way
 Valvoline Oil Co. ("Valvoline," "Mobil-oil"), 11 B'way
 Wilburine Oil Co., 11 B'way
 Winn, Wm. R. (Also Easy Run Axle Grease), 143 Maiden lane
 Woolley, G. C. Co. (Oils), 89 New Chambers
 Zibell, J. A., 273 Water

Borough of Queens.

LONG ISLAND CITY—Miller's, Wm. P. Sons ("Excelsior")
(End of New York City)
ROCHESTER—Hayner, Norman C. Co. ("No-Set-O" Cylinder, Engine & Dynamo Oils, etc.)
 Southwick, Theron T.
 Vacuum Oil Co., Granite bldg
ROME—Baums Castorine Co.
SYRACUSE—Mills, C. E. Oil Co.
 Syracuse Reduction & Mfg. Co. (Grease)
WATERFORD—Petroleum Co.

OHIO.

CANTON—Canton Lubricator Mfg. Co.
CINCINNATI—Cincinnati Oil Works, 323 Sycamore
 Evans, Lawrence, Oil Works, Perin bldg
INDIAN REFINING CO. (For All Purposes). (See adv. index, end of book)
 Moore, Chas. H. Oil Co. (Oils & Greases), York & McLean

Paragon Refining Co., Colerain av & B. & O. S. W. R. R.
 Valvoline Oil Co. ("Valvoline," "Mobiloil"), 1755 Elmora
 Wagner, C. P. & Co. (Cylinder, Engine, Dynamo, etc.), 126 Sycamore
 Wittich, Julius, 140 E Court
CLEVELAND—Acme Grease & Oil Co., 1294 W 70th, N W
 Atlantic Refining Co., Citizens bldg
 Atlas Oil Co., Rose bldg
 Brooks Oil Co., 3340 E 87th, S E
 Canfield Oil Co., 3216 E 55th, S E
 Carrau, Lewis C., Rockefeller bldg
 Clark, Fred G. Co. (Wholesale Trade Only)
 Climax Refining Co., Williamson bldg
 Crown Oil Co., 804 Lakeside av, N W
 Cummer, Jas. W. Co., 2900 E 34th, S E
 Dieterichs Valve Oleum Co., Rose bldg
 Energine Refining Co. (Autovalve), Cuyahoga bldg

Fairfax Refining Co., Wade bldg
 Globe Oil Co., Rose bldg
 Great Western Oil Co., 2855 E 37th
 Kingsley, H. B. & Co. ("Sealine" Oils & Cup Greases), 325 St. Clair av, N W
 Manufacturers' Oil & Grease Co., Century bldg
 Mohawk Refining Co., 1187 W 11th, N W
 Monitor Oil Co. (Oils & Greases), 1131 W 11th, N W
 National Refining Co. (Cylinder, etc.), Rose
 Phoenix Oil Co., 902 Garfield bldg
 Plomo Specialty Mfg. Co., Sherman & C. P. R. R.
 Reliance Oil & Grease Co. ("Valve-Olene"), 1501 Columbus rd
 Royal Lubricants Co. (Automobile Lubricants), Schofield bldg
 Standard Oil Co. of Ohio ("Capitol" Cylinder, "Renown" Engine, "Eldorado" Engine, "Standard" Gas Engine, "Mobilubricant," etc.)

Star Lubricating Oil Co., 8408 Kinsman rd
 Sterling Refining Co., Citizens bldg
 Stevens Grease & Oil Co., Bessemer av & C. & P. R. R.
 Von Benken Grease & Oil Co., 5120 Sweeney av, S E
 Whitmore Mfg. Co. ("Whitmore's" Gear Protective Composition, "Whitmore's" Journal Oil)

Wilson-Clark Co., 11722 Euclid av
COLUMBUS—Ironslides Co. (For Gearing, etc.), The Wyandotte

Keystone Supply Co. (Oils)
 Ohio Filler & Shield Co.
TOLEDO—Craig Oil Co.
 Electric Refining Co.
 Monarch Mfg. Co. ("Channelene" Grease), Ironville
 Paragon Refining Co. (Cylinder Valve & Engine Oils & Greases & Lubricating Compounds)
 Sun Oil Co. (Engine & Cylinder Oils & Greases)

PENNSYLVANIA.

ALLEGHENY—Fralich Grease & Oil Co.
 Marline Oil Co.
 Miller, A. D. & Sons Co. (Cylinder, Engine & Dynamo Oils & Cup, Journal, Belt & Sponge Greases)

IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.

ALLENTOWN—Garnet Co.
Gossler Oil Co. (Oils & Greases)
BRADFORD—Emery Mfg. Co. (Steam Refined
Journal Oil Co. Cylinder Stock)
Penna Lubricating Co. (of Pa.)
CHESTER—Manufacturers' Paraffine Co.
EMLENTON—Emlenton Refining Co. (Cylinder,
Engine, Spindle, Dynamo, etc.)
Sterling Oil Co.
ERIE—Erie Oil Co.
Union Oil Works
FERNWOOD—Modoc Company (Inc.) ("Mo-
doc" Journal Lubricant & Gear Grease)
FRANKLIN—Galena Signal Oil Co. (Coach,
Engine & "Sibley's" Perfection Valve &
Marvin Mfg. Co. (Autolene) Signal Oils)
FREEDOM—Freedom Oil Works Co. (Refiners
of Machinery Oils, etc.)
NORTH CLARENDON—Smith, Levi
OIL CITY—Continental Refining Co.
Crystal Oil Works (Railroad Oils a Spe-
cialty)
Germania Refining Co. (Cylinder, Spindle,
Engine, Valve, etc.)
Independent Refining Co.
Oil City Oil & Grease Co.
Penn Refining Co. (Ltd.) (Petroleum Lubri-
cants)
PHILADELPHIA—Atlantic Refining Co. (En-
gine, Cylinder, etc.), Bourse bldg
Benson, Wm. T. & Co., 232 N Front
Borne, Strymser Co., 216 N Front
Brown, D. P. & Co. (Oils & Greases), 262
N 4th
Commercial Lubricating Co., cor Meadow
& Jackson
Crew, Levick Co. (Cylinder, Spindle, etc.),
Land Title bldg
DIXON, JOS. CRUCIBLE CO., 1020
Arch. (See adv. index, end of book)
Donahue, W. J. & Co. ("Peerless" Cylin-
der Oils, also Dynamo, Engine, etc.),
Betz bldg
General Mfg. Co. (Oils & Grease), Snyder
av & Swanson
Houghton, E. F. & Co. (Cosmoline Oil,
Vim, Cylinder Oils, Lubricating Greases,
etc.), 240 W Somerset
Hulbert, C. & Co., 115 N 2d
Kellom, C. F. ("Invaders"), 128 Arch
Keystone Lubricating Co. (Greases & Com-
pounds & Reft Greases), 20th & Alle-
Loos & Dillworth, 134 S Front gheny av
Murray & Murray, 219 Quarry
Nero Mfg. & Oil Co., 1543 N Front
Penn Petroleum Co., 117 N 2d (Greases)
Philadelphia Grease Mfg. Co., The Bourse
Pure Oil Co. ("Pennu." Oils & "Pro"
Greases), 5th & Chestnut
Skilton, Valentine Co., 2321 N 30th
Smith, Chas. K. & Co., 123 Arch
Sommerhorn's, L. Sons, 131 Arch
Stevenson Bro. & Co., 110 Race
Sun Co. (Petroleum Lubricants), Real Estate
Trust Co. bldg
Sunlight Oil & Gasoline Co. (Cylinder &
Lubricating Oils), 217 Arch
Union Petroleum Co. (Cylinder, Engine,
Dynamo, Wool & Cordage Oils, Auto-
mobile, Motor Boat & Gasoline Engine
Lubricants, etc.), 138 S 2d
Walton, F. S. Co., 319 Walnut
Zurn, O. F. Co. ("Peerless," "American,"
"Detroit" Grease, etc.), Broad & Le-
high av
PITTSBURG—**DIXON, JOSEPH CRUCI-**
ble Co., Farmers' Bank bldg. (See adv.
index, end of book)
Duquesne Oil & Supply Co., 3300 Small-
man
Eagle Lubricating Oil Co., 426 1st av
Guffey, J. M. Petroleum Co., Frick bldg
Gulf Pipe Line Co. (Petroleum Lubricants)
Hamel, J. J. & Co., House bldg
Keystone Oil & Supply Co., 206 2d av
Keddinghans & Co. (Greases), 61st & A
V. R.
Penna Lubricating Co., 34th & A. V. R.
Pittsburg Oil Refining Co. (Cylinder, Spin-
dle, etc.), 1246 W Carson
Sun Co., Columbia Bank bldg
Waverly Oil Works, 54th & A. V. R. R.,
Pittsburg, Pa.
Willock, S. M. (Mecca Cylinder, etc.), 54th
READING—Ellis & Cummings & A. V. R.
SCOTSDALE—Crescent Mfg. Co. ("Lackawanna"
Grease)
SCRANTON—Maloney Oil & Mfg. Co.
TITUSVILLE—Frank Oil Co. (Oils)
Harris Oil & Grease Works (Gas Engine,
Cylinder Oils, etc.)
WARREN—Conewango Refining Co.
Cornplanter Refining Co. (Cylinder, Spindle,
Engine, etc.)

Seneca Oil Works (Cylinder & Machinery
United Refining Co. Oils
Warren Refining Co. (Cylinder, Engine, etc.)
Warren Specialty Co. (Cnn & Axle Grease)
Wilburline Oil Works (Ltd.) (Petroleum
Lubricants)

RHODE ISLAND.

PROVIDENCE—American Oil Co., 180 S Water
Benedict, Wm. C. & Co.
Bush, Chas. S. Co. (Oils & Greases)
Harris, A. W. Oil Co. ("Harris"), 326 S
Olney Bros. (Oils & Greases) Water
Phetteplace Oil Co., 169 Augell

TENNESSEE.

HARRIMAN—Indian Refining Co.
KNOXVILLE—Tennessee Oil Co.

TEXAS.

DALLAS—Armstrong Packing Co.
Dallas Oil & Refining Co.
HOUSTON—Texas Co.

WASHINGTON.

SEATTLE—King-Keystone Oil Co. (Engine,
Seaboard Oil Co. Cylinder, etc.)

WEST VIRGINIA.

PARKERSBURG—Stiles Bros. (Machinery &
Cylinder Oils)

WISCONSIN.

MILWAUKEE—Campbell, J. M., 275 Oregon
Haksted, W. D. Oil Co., 318 E Water
Hofmeister, Leo, 396 Clinton
Independent Oil & Grease Co., 291 So.
Water
Magie, E. E. Specialty Mfg. Co., 268 S
Water
Peters Oil & Compound Co. (Oils &
Greases), 356 Clinton
Wadham's Oil Co. ("Badger" & "Cook"
Cylinder), 215 National av
OSHKOSH—Stroud & Co.
WAUKESHA—Kent Lubricant Co.

Lubricators (Air Compressor)

(See also Lubricating Oils & Greases; also Lu-
bricators, Gas Engine)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)

American Lubricator Co. ("Improved"), De-
troit, Mich.

Bowen Mfg. Co., Auburn, N. Y.
Detroit Lubricator Co., Detroit, Mich.
Detroit Shipbuilding Co. (Brass Dept.), De-
troit, Mich.

LUNKENHEIMER CO. ("Vulcan,"
"Banner"), General Offices & Works: Beck-
man & Waverly, Cincinnati, O. (See adv.
index & branch offices, end of book)
Michigan Lubricator Co. ("Michigan"), Detroit,
Mich.

Powell, Wm., Co., 2529 Spring Grove av, Cin-
cinnati, O.

Schaeffer & Budenberg Mfg. Co., 963 Kent
av, Brooklyn, N. Y.

Williams, D. T., Valve Co., 410 E 8th, Cin-
cinnati, O.

Lubricators (Automobile)

(See also Lubricators, Oil & Grease Cup; also
Lubricators, Force Feed)

Bowen Mfg. Co., Auburn, N. Y.
INDUSTRIAL INSTRUMENT CO., Fox-
boro, Mass. (See adv. index & branch
offices, end of book)

LUNKENHEIMER CO. ("Auto"), Gen-
eral Offices & Works, Beckman & Waverly,
Cincinnati, O. (See adv. index & branch of-
fices, end of book)

McCord & Co. ("McCord" Force Feed), Old
Colony bldg, Chicago, Ill.

Penberthy Injector Co. ("Penberthy"), 34
Holden av, Detroit, Mich.

Schaeffer & Budenberg Mfg. Co., 963 Kent
av, Brooklyn, N. Y.

Williams, D. T., Valve Co., 410 E 8th, Cin-
cinnati, O.

Lubricators (Candle)

(For Shafting & Loose Pulleys, Etc.)

Detroit Lubricating Co., Detroit, Mich.

Swain Lubricator Co. ("Swain"), c Lake & S
Water, Chicago, Ill.

Lubricators (Car Journal)

Armstrong Oiler Co., S 31st, Below Chestnut,
Phila., Pa.
Railway Journal Lubricator Co., The "Ideal",
Mercantile Library bldg, Cincinnati, O.

Lubricators (Electric Motor)

Armstrong Oiler Co., Commonwealth Trust
bldg., Phila., Pa.
F.-M. Oil Cup Co., Rochester, N. Y.

Lubricators (Force Feed)

Baker-Churchill-Lee Co. ("Churchill"), 907
Michigan av, Detroit, Mich.
Bowen Mfg. Co., Auburn, N. Y.

Charter & Co., 305 Dearborn, Chicago, Ill.

Climax Lubricator Co., 3 Appleton, Boston.

Detroit Lubricator Co., Detroit, Mich.

Dodge Lubricator Co., 8 Waltham, Boston,
Mass.

Greene, Twced & Co. ("Multiplus" & "Roch-
ester" Automatic), 109 Duane, New York

Hatcher Auto Parts Co. (Hand), Cleveland, O.

Hills-McCanna Co., 128 E Kinzie, Chicago, Ill.

Klusey Mfg. Co. ("Kinwood" or "Kehoe"),
Dayton, O.

Lavigne Mfg. Co., Detroit, Mich.

Louergan, J. E. & Co. ("Keystone," Hand), 211
Race, Philadelphia, Pa.

LUNKENHEIMER CO., General Of-
fices & Works, Beckman & Waverly, Cin-
cinnati, O. (See adv. index & branch offices,
end of book)

McCord & Co. ("McCanna"), Detroit, Mich.

Madison-Kipp Lubricator Co. ("Kip" Valveless),
Madison, Wis.

Manzel Bros., 317 Balcock, Buffalo, N. Y.

Mason-Kipp Mfg. Co., Madison, Wis.

Michigan Lubricator Co. (Hand), Detroit, Mich.

Milwaukee Metal Working Co. ("Werder"),
Montgomery bldg, Milwaukee, Wis.

National Sewing Machine Co. ("Crandall"),
Belvidere, Ill.

Osgood, J. L., Lubricator Co. ("Automatic"),
Erie Co. Bank bldg, Buffalo, N. Y.

Phenix Metallic Packing Co., 7 S Jefferson,
Chicago, Ill.

Powell, Wm. Co., 2529 Spring Grove av, Cin-
cinnati, O.

Precision Appliance Co. ("Hill"), 840 Austin
av, Chicago, Ill.

Sherwood Mfg. Co. ("Hart"), Buffalo, N. Y.

Sight Feed Oil Pump Co. ("Richardson"), Mil-
waukee, Wis.

Standard Force Feed Lubricator Co., Roches-
ter, N. Y.

Sterling Lubricator Co., Rochester, N. Y.

Lubricators (Gas Engine)

(See also Lubricators, Automobile)

American Injector Co., Detroit, Mich.

American Lubricator Co. ("Improved," "Per-
fection," "Reliable," "Crescent"), De-
troit, Mich.

Detroit Lubricator Co., Detroit, Mich.

Eagle Brass Works (Glass Body, Steam Fit-
ters), Detroit, Mich.

Lavigne Mfg. Co., Detroit, Mich.

LUNKENHEIMER CO. ("Paragon,"
"Premier," "Mars," "Vulcan" & "Ban-
ner" Multiple Feed), General Offices &
Works, Beckman & Waverly, Cincinnati, O.
(See adv. index & branch offices, end of book)

Manzel Bros., 319 Balcock, Buffalo, N. Y.

Michigan Lubricator Co. ("Michigan," Sight
Feed, Gas, Naphtha & Gasoline), Detroit,
Mich.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Penberthy Injector Co. ("Penberthy"), 346
Holden av, Detroit, Mich.

Powell, Wm., Co., 2529 Spring Grove av, Cin-
cinnati, O.

Schaeffer & Budenberg Mfg. Co., 963 Kent
av, Brooklyn, N. Y.

Williams, D. T., Valve Co. ("Worthy,"
"Wonder"), 410 E 8th, Cincinnati, O.

Lubricators (Graphite)

Campbell Graphite Lubricating Co. ("Auto-
matic Feeding"), Little Rock, Ark.

Detroit Lubricator Co., Detroit, Mich.

LUNKENHEIMER CO., General Of-
fices & Works, Beckman & Waverly, Cin-
cinnati, O. (See adv. index & branch offices,
end of book)

Lubricators (Grease & Oil Cup)

(See Lubricators, Oil & Grease Cup)

Lubricators (Locomotive)

Crescent Mfg. Co. ("Lackawanna"), Scottsdale, Pa.
 Detroit Lubricator Co. ("Detroit" Bullseye Pattern), Detroit, Mich.
 Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
 Franklin Railway Supply Co. (Grease, for Driving Box, etc.), Franklin, Pa.
LUNKENHEIMER CO., General Offices & Works, Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McCord & Co. ("McCord," Force Feed), Old Colony bldg., Chicago, Ill.
 Michigan Lubricator Co. ("Stationery"), Detroit, Mich.
 Nathan Mfg. Co., 85 Liberty, New York
 Philadelphia Lubricator & Mfg. Co. (Inc.), ("Philadelphia"), Philadelphia Bourse, Philadelphia, Pa.
 Powell, Wm. Co., 2529 Spring Grove av., Cincinnati, O.
 Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.
 Sterling Lubricator Co. (Force Feed), Rochester, N. Y.
 Williams, D. T., Valve Co., Cincinnati, O.

Lubricators (Locomotive Box)

Railway Journal Lubricator Co., Mercantile Library bldg., Cincinnati, O.
 Venaugo Mfg. Co., Franklin, Pa.

Lubricators (Loose Pulley)

(See Oilers, Loose Pulley)

Lubricators (Multiple Oiling)

Detroit Lubricator Co., Detroit, Mich.
 Essex, G. B. Brass Co. ("Standard"), Detroit, Mich.
 Hall Manufacturing Co., 62 Cliff, New York
 Hussey Drop Forge & Mfg. Co., Axtell opp. Osage, Cleveland, O.
 Locke Regulator Co. ("Perfection"), Salem, Mass.
 Lonergan, J. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Michigan Lubricator Co., Detroit, Mich.
 Nathan Mfg. Co., 85 Liberty, New York
 Phillips Co., 164 High, Boston, Mass.
 Sherwood Manufacturing Co., Buffalo, N. Y.
 Sight Feed Oil Pump Co. ("Richardson"), Milwaukee, Wis.

Lubricators (Oil & Grease Cup)

Albany Lubricating Compound & Cup Co. ("Perfect" Grease Cups only), 313 West, N. Y.
 Allen, W. D. Mfg. Co. ("Bowes," "Czar," "Columbia," "Gibbs," & "Peerless"), 151 Lake, Chicago, Ill.
 American General Engineering Co. ("Reliable" Oil Cup), 253 B'way, New York
 American Injector Co. (Glass Oil Cups, Brass Grease Cups; also Compression Grease Cups, Moon Automatic), Detroit, Mich.
 American Lubricator Co. ("Pearl," "Banner," "Admiral," "Acme," "Navy," "Model," "Glass Body for Oil," "Lion," "Challenge," "Art," all Brass for Grease), Detroit, Mich.
 Automatic Oil Cup Co. ("Bangs," Automatic Oil Cup), Milwaukee, Wis.
 Baker-Churchill-Lee Co. ("Lee"), 907 Michigan av., Detroit, Mich.
BAY STATE STAMPING CO. ("Bennett," Self-Closing), 380 Chandler, Worcester, Mass. (See adv. index, end of book)
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Besly, Chas. H. & Co. ("Perfection," "Bonanza" Oil Cups & "Helmet" Cast Iron Oil Cups), 15 S. Clinton, Chicago, Ill.
 Bowen Mfg. Co. ("Empress" Line of Brass & Steel Grease Cups; Plain Compression, Plain Leather Packed, Ratchet Compression, Marine Compression, Spring Compression, Crank Pin & Funnel Shafting Cups), Auburn, N. Y.

Buckeye Iron & Brass Works, Dayton, O.
 Bushnell, John S. & Co. ("McKenzie"), 123 Liberty, New York
 Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.
 Canton Brass Co. (Oil Only), Canton, O.
 Consolidated Fruit Jar Co. (Brass), New Brunswick, N. J., & 290 B'way, New York
 Crane Co., Est. 1855 (Brass & Copper), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crane Valve Co., Bridgeport, Conn.
 Crescent Mfg. Co. ("Lackawanna" Automatic Grease Cups Only), Scottsdale, Pa.
 Crescent Oil & Supply Co. ("Babcock & Keiley"), St. Louis, Mo.
 Detroit Lubricator Co. ("McCoy") (Brass Dept.), Detroit, Mich.
 Detroit Shipbuilding Co. (Brass Dept.), ("McCoy," "Eric," "Huron," "Majestic," "Quaker," "Kirby," "Perfection," "Superior," "Eagle" & "Mutual"), Detroit, Mich.
DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)
 Dynamic Grease Cup Co., Bullitt bldg., Philadelphia, Pa.
 Eagle Brass Works ("Marvel," "Modern," "Ohio," "Success," "Superior," "Perfection" Plain & Glass Body Oil Cups & Plain Screw Feed & Spring Compression Grease Cups), Detroit, Mich.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Edna Smelting & Refining Co., Cincinnati, O.
 Elliott Chemical Works ("Sterling"), Newton
 Erie Stamping & Mfg. Co., Erie, Pa. Mass.
 Essex, G. B. Brass Co., Detroit, Mich.
 Eynon-Evaus Mfg. Co. (Railroad Oil Cups), 1519 Clearfield, Phila., Pa.
 Frauce Packing Co. (Inc.), 6512 State road, Phila., Pa.
GRISCOM-SPENCER CO. ("Bangs") (Brass), 90 West, New York, & ft. Washington av., Philadelphia, Pa. (See adv. index & branch offices, end of book)
 Hall Mfg. Co. ("Hall's"), John & Cliff, New York
 Hancock Mfg. Co., Charlotte, Mich.
 Hatcher Auto Parts Co. ("B.H."), 32 Columbus, Cleveland, O.
 Haydenville Co., Haydenville, Mass.
 Hills-McCanna Co., 128 E Kinzie, Chicago, Ill.
 Holland, William, 122 S Jefferson, Chicago, Ill.
 Illinois Malleable Iron Co., 515 Diversey boulevard, Chicago, Ill.
 Jarecki Mfg. Co. (Brass), Erie, Pa.
 Kelly & Jones Co. (Brass), Pittsburg, Pa.
 Keystone Brass Co. ("Cyclone" Brass), Erie
 Kinsey & Mahler Co., Peoria, Ill.
 Knowlton Packing Co. ("Ellis"), Newton, Mass.
 Koehler Bros ("Moon" & "Neverslip" Grease Cups), Saginaw, Mich.
 Lawson Mfg. Co. (Loose Pulley), Buffalo, N. Y.
 Locke Regulator Co. ("Brute"), Salem, Mass.
 Lonergan, Jas. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO. ("Cardinal," "Pioneer," "Victor," "Sentinel," "Crown," "Pressure," "Reserve," "Royal," "Miami," "Champion," "Automatic," "Locomotive," "Spring Ld" & "Pulley" Oil Cups & "Ideal," "Lion," "Jewel," "Marine," "Tiger," "Gem," "Surety," "Positive," "Rex," "Apollo," "Steel," "Mite" & "Owl" Grease Cups), General Offices & Works: Waverly & Beckman, Cincinnati, O. (See adv. index & branch offices, end of book)
 McCanna Mfg. Co., 56 N Jefferson, Chicago, Ill.
 McNab & Harlin Mfg. Co. ("Stauffer," "Gee," "Broughtons," "Boyden" & "Yale"), 50 John, New York
McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)
 Michigan Lubricator Co. ("Michigan," "Common Sense," "Improved Common Sense," Spring Compression, Improved Spring Compression, Loose Wire Crank Pin, "Reliable" Plain, "Sargent" & "Guardsman"), Detroit, Mich.
 Nash Bros. & Co. ("The Michigan" Spring Compression Grease), Ogdensburg, N. Y.
 Nathan Mfg. Co. ("Dreyfuss"), 85 Liberty, New York
 National Brass & Metal Co., 256 S 3d av., Minneapolis, Minn.
NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
 Nolte Brass Co. (Plain Brass Oil Cups Only), Springfield, O.
 Nunn Brass Works (Inc.), Rochester, N. Y.
 Ohio Brass Co. (Brass & Glass), Mansfield, Ohio

Ohio Injector Co. (Brass), Wadsworth, O.
PATTERSON, GOTTFRIED & HUNTER, (Ltd.), 211 Center, New York
 Penberthy Injector Co. ("Penberthy"), 346 Holden av., Detroit, Mich.
 Perkes, Charles, 627 Arch, Philadelphia, Pa.
 Philadelphia Lubricator & Mfg. Co. (Inc.) ("Philadelphia" Grease Cup), Philadelphia Bourse, Phila., Pa.
 Phillips Co. ("Standard" Brass), Somerset, Mass.
 Phillips, W. P., Sudbury bldg., Boston, Mass.
 Pioneer Brass Works, Indianapolis, Ind.
 Powell, Wm. Co. ("Colon," "Colonial," "Meca," "Parole," "Petrol," "Phigra," "Phoenix," "Phaet," "Phinacle," "Politer," "Pluto," "Picket," "Puritan," "Polaris" & "Vanguard"), 2525 Sprig Grove av., Cincinnati, O.
 Pulver, Peter & Sons, 214 Franklin, New York
 Queen City Brass & Iron Works (Brass), Cincinnati, O.
 Reed Mfg. Co. ("Economy" Oil Cups), Erie, Pa.
 Ritchie, Gavin & Sons, Battle Creek, Mich.
 Ruppenthal, J., & Son (Grease), 1002 North Broadway, St. Louis, Mo.
 Selbert Cylinder Oil Cup Co. (Brass), 53 Oliver, Boston, Mass.
 Sherman, H. B. Mfg. Co. (Brass), Battle Creek, Mich.
 Sherwood Mfg. Co. ("Buffalo," "Niagara" & "Sherwood"), Buffalo, N. Y.
 Sims Co. (Crank Pin Oil Cups), Erie, Pa.
 Springfield Brass Co. (Brass), Springfield, O.
 Star Brass Mfg. Co., 108 E Dedham, Boston, Mass.
 Swain Lubricator Co. ("Swain"), c Lake & S Water, Chicago, Ill.
 Swift Lubricator Co. ("Lion," "Suchem," "Star" & "Sancho," Glass & Brass Oil Cups & Compression Grease Cups), Elmira, Thlen & Co., St. Paul, Minn. N. Y.
 Thomas Brass & Iron Co. (Brass), Waukegan, Ill.
 Tucker, W. W. & C. F. (Self-closing Rotary Head Cup), Hartford, Conn.
 Wadhams Oil & Grease Co. (Wadhams Grease Cups), 215 National av., Milwaukee, Wis.
 Wilkinson, W. H. & Co., West Midway, Mass.
 Williams, D. T., Valve Co. ("Tacoma," "Tremont," "Tarrant," "Temple," "Topaz," "Tandem," "Automatic Needle Valve," "Dandy," "Duke," "Duchess," "Dragon," "Diamond," "Dakota"), 410 E 8th, Cincinnati, O.

Lubricators (Oil Pump)

American Lubricator Co. ("Ideal" Glass Body & "Superior," all Brass), Detroit, Mich.
 Detroit Lubricator Co. ("Detroit"), Detroit, Mich.
 Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.
 Essex, G. B., Brass Co., Detroit, Mich.
 Eynon-Evaus Mfg. Co., 1519 Clearfield, Phila., Pa.
 Greene, Tweedy & Co., 17 Murray, New York
 Hills, McCanna Co., 128 E Kinzie, Chicago, Ill.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Lonergan, J. E. & Co. ("Calumet & Hecla" Pattern, etc.), 211 Race, Phila., Pa.
LUNKENHEIMER CO. ("Auto," "Alpha," "Universal," "Marvel," "Imperial," & "King"), General Offices & Works, Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Madison-Kipp Lubricator Co. ("Kipp" Valveless), Madison, Wis.
 Manzel Bros. ("Manzel" Sight Feed Automatic), 319 Babcock, Buffalo, N. Y.
 Michigan Lubricator Co. ("Michigan"), Detroit, Mich.
 Nugent, Wm. W. & Co. ("McCune" Anti Packed Force, Sight Feed Cylinder Pumps), 18 W Randolph, Chicago, Ill.
 Penberthy Injector Co. ("Penberthy"), 346 Holden av., Detroit, Mich.
 Phenix Lubricator Co. (Automatic), 7 S Jefferson, Chicago, Ill.
 Powell, Wm. Co., 2529 Spring Grove av., Cincinnati, O.
 Schaeffer & Budenberg Mfg. Co. (Glass Body), 963 Kent av., Brooklyn, N. Y.
 Schutte & Koertling Co., 12th & Thompson, Phila., Pa.
 Selbert Cylinder Oil Cup Co., 53 Oliver, Boston
 Sherwood Mfg. Co. ("Felthousen" Hand, Cylinder & Automatic Sight Feed), Buffalo, N. Y.
 Sight Feed Oil Pump Co. (The "Richardson" Automatic Sight Feed), Milwaukee, Wis.

Stahl-Salter Lubricating Co. (Stahl's Conical Base Grease Cups), Minneapolis, Minn.
Sterling Lubricator Co. (Force Feed), Rochester, N. Y.
Williams, D. T., Valve Co. ("Wairus"), 410 E 8th, Cincinnati, O.

Lubricators (Pneumatic Tool)

Carron, A. M. & Co. ("Pittsburg"), 200 Penn av, Pittsburg, Pa.

Lubricators (Sight Feed)

American Lubricator Co. ("Perfection," "Reliable" & "Crescent," Glass Body), Detroit, Mich.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crescent Mfg. Co. ("Lackawanna," for Stationary Locomotive & Marine Engines), Scottsdale, Pa.

CROSBY STEAM GAGE & VALVE

Co., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)
Detroit Lubricator Co. ("Detroit," "Zero," "Kld"), Detroit, Mich.

Detroit Ship Building Co. ("Klrby"), Detroit, Mich.

Eastwood Wire Mfg. Co. ("Couse"), Belleville, N. J.

Essex, G. B. Brass Co., Detroit, Mich.

Flower, Walter L. Steam Specialty Co. ("Ash-ton"), 312 S 8th, St. Louis, Mo.

Hall Mfg. Co. ("Hall's"), John & Cliff, New York

Handlan-Buck Mfg. Co. ("Dibble"), 212 N 3d, St. Louis, Mo.

Haydenville Co., Haydenville, Mass.

Jarecki Mfg. Co. ("Erie"), Erie, Pa.

Kelly & Jones Co. ("Westmoreland"), Pittsburg, Pa.; Works: Greensburg, Pa.

Knowlton Packing Co. ("Ellis," "Ideal"), Newton, Mass.

Loneragan, J. E. & Co., 211 Race, Phila., Pa.

LUNKENHEIMER CO. ("Hercules," for Air Compressors, "Cupid" for Small Blowers, "Arctic" for Ammonia Compressors). General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)

McNab & Harlin Mfg. Co. ("Boyden"), 56 John, New York

McRAE & ROBERTS CO. ("The Acme," "Eureka," "Never Fail"), 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Manzel Bros., 319 Babcock, Buffalo, N. Y.

Michigan Lubricator Co. ("Michigan," "Cy-clone," "Rural," etc.), Detroit, Mich.

Nathan Mfg. Co., 85 Liberty, New York

Ohio Brass Co., Mansfield, O.

Ohio Injector Co. ("Chicago," "Ohio"), Wadsworth, O.

Osgood, J. L., Lubricator Co. ("Valveless"), Erie Co. Bank bldg, Buffalo, N. Y.

Philadelphia Lubricator & Mfg. Co. (Inc.) ("Philadelphia"), Phila. Bourse, Phila., Pa.

Pittsburg Brass Mfg. Co., 107 Wood, Pittsburg, Pa.

Powell, Wm. Co. ("Trojan," "Columbian," "Star," "Crescent," "Eusign"), 2529 Spring Grove av, Cincinnati, O.

Schaeffer & Budenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

Selbert Cylinder Oil Cup Co., 53 Oliver, Boston, Mass.

Sherwood Mfg. Co. ("Buffalo"), Buffalo, N. Y.

Sight Feed Oil Pump Co. ("Richardson" Automatic Sight Feed Oil Pump), Milwaukee, Wis.

Star Brass Mfg. Co., 108 E Dedham, Boston, Mass.

Sterling Lubricator Co., Rochester, N. Y.

Swift Lubricator Co., Elmira, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.

Wilkinson, W. H. & Co., West Medway, Mass.

*Lubricators (Steam Engine)

LUNKENHEIMER CO. ("Senior," "Junior," "Graphite," "Major," "Mon-arch"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

*Lug Hooks or Timber Carriers

CARPENTER, GEO. B. & CO., 202 S

Water, Chicago, Ill. (See adv. index, end of book)

*Lugs (Hinge)

RIESECK, P. (For Fire Proof Doors & Shutters), Allegheny av & Rebecca, Allegheny, Pa. (See adv. index, end of book)

Lugs (Tank)

Baker Mfg. Co., Evansville, Wis.

FAIRBANKS, MORSE & CO. (Rivets & Eclipse Steel), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Girard Iron Works, 22d & Master, Phila., Pa.

Gowanda Agricultural Works (Silo Lugs), Gowanda, N. Y.

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.

Pacific Tank Co., Los Angeles, Cal.

Racine Tank Lug Co., Racine, Wis.

Tecktonius, E. C. Mfg. Co. (Malleable Iron), Racine, Wis.

Lumber (Creosoted)

(See Creosoting Works)

Lumber Drying Kilns

(See Kiln Drying Apparatus)

Lumber (Kyanized)

Allen, Otis & Son, Lowell, Mass.

Berlin Mills Co., Portland, Me.

*Lumber Leads

DIXON, JOS. CRUCIBLE CO. ("Dixon's," for Green or Dry Lumber), Jersey City, N. J. (See adv. index & branch offices, end of book)

Lumber Mfrs. (Cypress)

Cypress Lumber Co. (Lumber & Shingles, Tanks & Vats), 88 Broad, Boston, Mass., & Apalachicola, Fla.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

HENDRICKS COMMERCIAL

IT IS NOT A CATALOG OF ADVERTISERS ALONE, BUT A COMPLETE REGISTER OF THE MANUFACTURERS AND JOBBERS IN EVERY LINE OF TRADE THAT COMES WITHIN THE SCOPE OF THE WORK.

R E G I S T E R

Lumber Mfrs. & Wholesale Dealers

Star (*) denotes Manufacturers.
Dagger (†) denotes Inspectors & Shippers.
Section Mark (§) denotes Wholesale Dealers.
This is not an absolutely complete list of Lumber Manufacturers & Wholesalers. It is compiled for those who want to purchase lumber.

ALABAMA.

ANNISTON—Ray, J. W. (Saw Mill)
ASHFORD—Pierce Lumber Co.
ATMORE—*Carney, W. M. Mill Co. (L. L. Yellow Pine)
*Steadham, J. V. (Est. of)
BELLAMY—Ailison Lumber Co. (Saw Mill)
BESSEMER—Edwards, G. B.
BIRMINGHAM—§Alabama Lumber Co.
*American Lumber & Export Co. (Yellow Pine)
*Clear Creek Lumber Co. (Pine)
*Farrior, J. W. & Co.
*Iron City Lumber Co.
*Johnston, T. H. & Co. (Yellow Pine)
*Kaul Lumber Co. (Saw Mill, Yellow Pine)
*Lathrop Lumber Co. (Yellow Pine) etc.)
Standard Lumber & Mfg. Co.
BON SECOUR—*Swift, C. A. & Sons (Lumber & Saw Mill)
BRANTLEY—Rogers, W. C. & Son (Saw Mill)
BREWTON—*Cedar Creek Mill Co. (Yellow Lovelace Lumber Co. (Pine)
BROOKLYN—Amos, E. N. (Saw Mill)
CAMDEN—Jones, T. J. & Co. (Saw Mill)
McWilliams, R. E. (Saw Mill)
CARBON HILL—Guthrie, B. B. (Saw Mill)
CARROLLTON—*Kilpatrick Bros. (Saw Mill)
CHAPMAN—*Smith, W. T. Lumber Co. (Yellow Pine)
CLARKSVILLE—Coats, V. A. (Saw Mill)
CLAYTON—Robertson, W. H. (Saw Mill)
COHASSET—*Foshee & Travis (Lumber & Saw Mill)
CREOLA—Hatter T. A. & Son (Saw Mill)
CYPRESS—Cypress Hardwood Co.
DEATSVILLE—Mills, A. D. (Saw Mill)
DECATUR—Jervis Lumber Co.
DELCAMP'S—*Fowl River Lumber Co. (Saw Mill)
DEMOPOLIS—Wood, H. L. Lumber Co.
EVA—Stewart, Wiley (Saw Mill)
EVERGREEN—Smith, H. L. (Saw Mill)
FACKLER—Jones Lumber Co. (Saw Mill)
FLOMATON—*Walker, E. (Yellow Pine)
FULTON—*Scotch Lumber Co. (Yellow Pine)
GADSDEN—*Kyle Lumber Co. (Yellow Pine)
GANTT—Gantt, D. B. & Bro. (Saw Mill)
GENEVA—*Gulf Yellow Pine Co. (Yellow Pine)
Taton Lumber Co. (Saw Mill)
GURLEY—*Roberts, W. T. (Hardwood)
HOLLYWOOD—§Noble, F. F. Co.
HUNTSVILLE—Huntsville Mfg. & Lumber Co.
LAMISON—*Frost-Sibley Lumber Co. (Yellow Pine)
LOCKHART—*Jackson Lumber Co. (Yellow Pine)
LIVERNE—Bentley, Taylor & Beall (Saw Mill)
MARBURY—*Marbury Lumber Co. (Yellow Pine)
MARLOW—Grove, J. W. (Saw Mill)
MOBILE—*Alabama Hardwood Lumber Co.
Bay City Lumber Co. (L-L. Yellow Pine)
Bay Shore Lumber Co.
*Blackstar Co. (Yellow Pine & Saw Mill)
*Cameron, J. D. & Son (Lumber & Shingles)
Hieronymus Bros. (Saw Mill)
Hunter, Benn & Co. (Exporters)
Martin, Taylor Lumber Co. (Lumber & Timber)
§Syson, W. K. & Co. (Pitch Pine, etc.)
MONTGOMERY—*Alabama Hardwood Mfg. Co.
§Alabama Lumber Co. (Lath & Shingles)
*Flowers, E. P. & Co.
*Montgomery Lumber Co. (Hardwood Lumber & Flooring, Ceiling, Finishing, Moulding, etc.)
§Southern Pine Lumber Co. (Yellow Pine)
§Vesuvius Lumber Co.
NEW DECATUR—Payne, E. C.
OAK GROVE—*Davis, M. L. (Yellow Pine)
POLLARD—Lindsey Lumber Co.
RICHBURG—*Henderson-Boyd Lumber Co. (Yellow Pine)
SANFORD—*Henderson Lumber Co. (Yellow Pine)
STOCKTON—*McMillan Bros.
Stockton Shingle Co.
SUMTER—*Sumter Lumber Co. (Yellow Pine)
VINEGAR BEND—*Vinegar Bend Lumber Co. (Yellow Pine)
WAGAR—*McClure Lumber Co. (Yellow Pine)

ARIZONA TERRITORY.

FLAGSTAFF—*Arizona Lumber & Timber Co.
NOGALES—§Roy & Titcomb
PHOENIX—De Mund Lumber Co.
Ryder, H. W. (Saw Mill)
Valley Lumber Co.
TUCSON—Corbett J. Knox Lumber Co.
Tucson Lumber Co.

ARKANSAS.

ASHDOWN—*Bowles, J. R.
BEARDEN—*Cotton Belt Lumber Co. (Yellow Pine)
BEIRNE—Clark, J. G. (Saw Mill)
BLISSVILLE—Bliss-Cook Oak Co. (Band Sawed White & Red Oak)
CROSSETT—*Crossett Lumber Co. (Yellow Pine)
DELIGHT—*Delight Lumber Co. (Pine)
DEQUEEN—*Williamson Bros. (Yellow Pine)
DEVAL BLUFF—*Stouemau-Zearing Lumber Co. (Hardwoods)
DRAUGHON—*Saline River Lumber Co. (Yellow Pine)
EAGLE MILLS—*Eagle Lumber Co. (Yellow Pine)
EARL—*Crittenden Lumber Co. (Pine)
EL DORADO—*El Dorado Hardwood Mfg. Co.
*Eldorado Lumber Co.
ELLIOTT—*Iron Mountain Lumber Co. (Yellow Pine)
FAYETTEVILLE—Northwest Arkansas Lumber Co.
FORDYCE—*Fordyce Lumber Co. (Yellow Pine)
*Hampton Stave Co.
FORT SMITH—*Dyke Bros.
FROSTVILLE—*Red River Lumber Co. (Yellow Pine)
GIFFORD—*Steward, Alexander Lumber Co. (Yellow Pine)
GILMORE—*Chapman & Dewey Lumber Co.
GREENFIELD—*Greenfield Lumber Co. (Hardwood, Cypress, Oak, Ash, etc.)
GRIFFIN—Griffin Mill Co. (Saw & Planing Mill)
GURDON—*Gurdon Lumber Co. (Yellow Pine)
HELENA—*Hackley-Phelps-Bonnell Co.
*McDonald Bros. (Hardwood)
*Reeves, W. D. Lumber Co. (Hardwood)
HOPE—*Hope Lumber Co. (Yellow Pine)
HORATIO—*McCoy, J. L.
JONESBORO—*Alfrey, H. (Tight Barrel, Cleared Headings, from all Woods)
JUNCTION—*Cornie Stave Co.
LESTER—*Lester Mills Co. (Yellow Pine Finish, Moulded Castings & Base)
LITTLE ROCK—*Abeles, C. T. & Co. (Yellow Pine, Cypress Lumber, Moulding, etc.)
*Arkansas Cypress Shingle Co. (Shingles)
*Central Mill Co. (Lumber, Lath & Shingles)
*Cypress Lumber & Shingle Co. (Shingles)
Fee-Crayton Hardwood Lumber Co. (Ash, Hickory, Walnut, Cottonwood, Cypress, Persimmon, etc.)
Ferguson, C. E., Saw Mill Co.
*Ferguson Lumber Co. (Yellow Pine & Red Cypress)
*Niemeyer, A. J. Lumber Co. (Cypress)
MADISON—*Wheeler, J. W. & Co. (Hardwood)
MALVERN—*Wisconsin & Arkansas Lumber Co. (Yellow Pine)
MARIANNA—*Ind. & Ark. Lumber & Mfg. Co.
L'Anguille Lumber Co. (Saw Mill)
MENA—*Watkins Lumber Co.
MILLVILLE—*Freeman-Smith Lumber Co. (Yellow Pine)
NEWPORT—Fee-Crayton Hardwood Lumber Co.
PERLA—*Malvern Lumber Co. (Yellow Pine)
PIKE—*Johnson, Spencer Lumber Co.
PINE BLUFF—*Bluff City Lumber Co. (Yellow Pine & Cypress)
*Sawyer & Austin Lumber Co. (Lumber & Yellow Pine Saw Mills)
PRESCOTT—*Ozan Lumber Co. (Yellow Pine)
RISON—*Porter, J. I. Lumber Co. (Yellow Pine)
SAGINAW—*Saginaw Lumber Co. (Yellow Pine)
STAMPS—*Bodeaw Lumber Co. (Yellow Pine)
TEXARKANA—Buchanan, Wm. (Lumber Broker)
*Floyd, J. F. Lumber Co. (Yellow Pine & Cypress Shingles)
*Southern Pine Lumber Co. (Yellow Pine Mixed Cars a Specialty)
THORNTON—*Stout-Greer Lumber Co. (Yellow Pine)
TURRELL—Baker Lumber Co. (Low Pine)
WARREN—*Arkansas Lumber Co., The (Pine & Hardwood)
*Bradley Lumber Co., The (Yellow Pine)
*Southern Lumber Co. (Yellow Pine)
WESSON—*Edgar Lumber Co. (Yellow Pine)
WILMAR—*Gates Lumber Co. (Yellow Pine, Lumber & Cypress Shingles)

CALIFORNIA.

ALBION—*Albion Lumber Co. (Redwood Lumber, Shingles & Ties)
BAKERSFIELD—Union Lumber Co.
BELLA VISTA—*Terry Lumber Co.
BERKELEY—*Bruce Lumber & Mill Co.
*Hunter Lumber Co.
BLACK DIAMOND—*Redwood Mfg. Co. (Redwood Lumber, Air Dried)
BOULDER CREEK—Bloom, I. T.
CASPAR—*Caspar Lumber Co. (Redwood Ties & Shingles)
CHICO—Stebbins, A. O. & Son (Saw Mill)
DUNCANS MILLS—*Duncan's Mills Land & LUREKA—Bayside Lumber Co. (Lumber Co.)
*Dolbeer & Carson Lumber Co. (Redwood Lumber & Shingles)
*Elk River M. & Lumber Co. (Redwood, Saw Mill)
*McKay & Co. (Redwood Lumber & Shingles)
FOREST HILL—*Finning, B.
FORT BRAGG—*Union Lumber Co. (Redwood Lumber, Shingles & Ties)
FRESNO—Fussett Lumber Co.
Fresno Lumber Co.
*Hollenbeck-Bush Co.
Madary Planing Mill Co., Inc.
Valley Lumber Co.
GILROY—*Whitehurst & Hodges
GUALALA—*Empire Redwood Co. (Saw Mill)
HALF MOON BAY—Bordeu, Chas. W. (Saw Mill)
HOBART MILLS—*Overton Merc. Co. (White & Sugar Pine, Box Shooks, Door Shooks, Fruit & Packing Boxes, Lath Pickets, Shingles, Ceiling & Flooring, Rustic & Sliding Moulding, etc.)
KORBEL—Northern Redwood Lumber Co.
LOMPOC—*Salinas Valley Lumber Co.
LOS ANGELES—§Alcoma Lumber Co.
§Blinn, L. W. Lumber Co.
§Culver Lumber Co.
§Inter-State Dock & Lumber Co.
§Morse & Briggs Lumber Co.
§National Lumber Co.
§Patten-Davies Lumber Co.
§San Pedro Lumber Co.
§Stanton, E. J.
§Western Hardwood Lumber Co.
§Wood, E. K. Lumber Co.
MENDOCINO—*Mendocino Lumber Co.
OAKLAND—§Derby, E. M. Co.
§Greater Oakland Co.
§Hildecker Lumber Co.
§Sunset Lumber Co.
OCCIDENTAL—*Mecker, M. C.
PASADENA—Blinn Lumber Co.
Kerckhoff-Cuzner Mill & Lumber Co.
PLACERVILLE—*Blair, J. & J. Lumber & PLATEAU—*Benton, T. H. Land Co.
POINT ARENA—*White, L. E. Lumber Co. (Redwood, Sugar Pine & Cal. White Pine)
RED BLUFF—*Sierra Lumber Co. (Cal. White & Sugar Pine Lumber, Fruit Boxes, Drying Trays, Cedar Posts, Box Shooks, etc.)
REDWOOD CITY—McArthur & Hartley (Shingles)
SACRAMENTO—Friend & Terry Lumber Co.
SAN BERNARDINO—Gill, J. B. Lumber Co.
Suverkrip, John
SAN DIEGO—Russ Lumber & Mill Co.
§San Diego Lumber Co. (Redwood Lumber & Shingles)
SAN FRANCISCO—Acme Lumber Co., 6th & Adams, W. J., Babcock bldg Channel
Allen & Higgins Lumber Co., Howard & Spcar
*Bellingham Bay Lumber Co., Sansom & Chestnut
§Byxbee & Clark Co. (Redwood & Pine), Balboa bldg
*Carcy, F. W. & Co., 112 Market
*Carter, Geo. E. & Co., Williams bldg
Caspar Lumber Co., Kohl bldg
Central Lumber & Mill Co., 21 11th
*Dieckmann Hardwood Co. (West Coast Mahogany, Spanish Cedar)
Dodge, E. J. Co., 16 California
Doc Chas. F. & Co. Powell & Beach
*Dolbeer & Carson (Redwood Lumber & Shingles), Merchants' Exch bldg
Duncan's Mills, Land & Lumber Co., 112 Market
Lumber & Shingles) Drumm & California
*Excelsior Redwood Co., 4th & Berry
Gardner Mill Co., 16 California
Gray, G. D., Merchants' Exch bldg
*Gray's Harbor Lumber Co. (Fir, Spruce & Red Cedar Lumber & Shingles), 244 California
§Hanly, J. R. & Co. (Redwood), 24 Market

§Harmon, S. H. Lumber Co. (Pine, Spruce & Redwood), 5th & Bryant
 §Hickman & Masterson, Mason & Jefferson
 *Hobbs, Wall & Co. (Redwood Lumber), 633 Howard
 Hooper, C. A. & Co., Balboa bldg
 Hooper, Geo. Williams, 112 Market
 *Hooper, F. P. & J. A., Merchants' Exchange bldg
 *Humboldt Lumber Co., 205 Berry
 §Inman, Poulson & Co., 18 California
 §Johnson-Schrader Co., 268 Market
 *Louisa Prieta Lumber Co., Union Trust bldg
 McKay & Co. (Redwood Lumber & Shingles), Monadnock bldg
 *Mendocino Lumber Co., Crocker bldg
 §Nelson, Chas. Co. (Redwood, Pine Shingles, Posts, etc.), 112 Market
 Niehaus & Co. (Inc.) (Hardwood), 564 Broadway
 §Olson-Mahoney Shipping & Comm. Co., ft of Powell
 *Pacific Lumber Co. (Redwood, Pine & Shingles), California & Drum
 *Pacific Pine Co. (Puget Sound Lumber, Rough Douglas Fir, R. R. Ties, Rustic Shingles, Bridge Timber, Car Sills, etc. for Export), Main & Howard
 §Pollard & Co. (Redwood Lumber & Shingles), 110 Market
 *Pope & Talbot (Lumber, Timber, Piles, Spars, etc.)
 Port Blakely Mill Co., Drum & California
 §Port Costa Lumber Co., 110 Market
 *Renton, Holmes & Co. (Spars & Poles), Drum & California
 Richardson Co., 42 Market
 Rowe, F. H. Lumber & Mill Co., Army & Bryant
 *Sallinas Valley Lumber Co., Merchants' Exchange bldg
 §San Pedro Lumber Co., 110 Market
 §Schouten, J. W. & Co. (Redwood, Pine Lumber & Shingles), 124 Townsend
 §Sierra Lumber Co. (Pine, Spruce & Fir), Russ bldg
 Simpson Lumber Co., 112 Market
 §Slade, S. E. Lumber Co. (Pine & Spruce), 245 Guerrero
 §Stockton, A. L. Lumber Co., Merchants' Exchange bldg
 *Tacoma Mill Co. (Douglas Fir, Oregon Pine, Plank, Timber, Ship Plank, Flooring, Rustic Ceiling, Lath, Pickets, Staves, Spars, Piling, Red Cedar Shingles, etc.), 310 Sanson, Works, Tacoma, Wash.
 §Truckee Lumber Co. (of S. F.), Flood bldg
 §Union Lumber Co. (Ties, Poles, Pine & Redwood Piles, Spars, etc.), Crocker
 §Valley Lumber Co., 110 Market bldg
 Wendling Lumber Co., Flood bldg
 *West, A. J. Lumber Co., 214 Front
 §White Bros. (Hardwood Importers & Dealers), c Spear & Howard
 §White, L. E. Lumber Co. (Redwood Lumber, Ties, Posts & Tan Bark), Balboa
 Wilson Bros. & Co., 324 Barry bldg
 *Wood, E. K. Lumber Co. (Fir & Spruce), 112 Market

SAN JOSE—Alameda Lumber Co.
 *Chase, S. H. & Co. (Lumber & Saw Mill)
 *Glenwood Lumber Co. (Lumber & Mill Work)

Hubbard & Carmichael Bros. (Lumber)
 *Santa Clara Valley Mill & Lumber Co. (Lumber & Mill Work)

SANTA ANA—Griffith, J. M. Co.
 Pendleton, S. H.

SANTA BARBARA—Humphrey, G. W. & Co. (Planing Mill)
 *Union Mill Co. (Planing Mill)

SANTA CRUZ—Hihn, F. A. Co.
 SCOTIA—*Pacific Lumber Co. (Redwood, Pine & Shingles)

SELMA—*Olsen & Henrikson (Planing Mill)
 Sisson—*Wood & Sheldon Lumber Co. (Saw Mill, Lumber, etc.)

SUNNY SOUTH—Power, H. T. (Saw Mill)
 Sugar Pine Mill Co.

WESTPORT—Pollard Lumber Co.

COLORADO.

COLORADO SPRINGS—Crissey-Fowler Lumber Co.
 *Newton Lumber & Mfg. Co.

DENVER—*Bingham, H. W., Larimer, 2d & 3d
 English, R. W. Lumber Co., 16th & Arapahoe

Farris, A. N., 1429 Milwaukee
 Farrar & Guy, W 12th av & S 4th

Fleming Bros., 139 Bway
 Hallack & Howard Lumber Co., Larimer c 17th

Lewis & Wheeler Merc. Co., 1537 18th
 *McPhee & McGinnity, 18th & Wazee

§Oregon Lumber Co., 1648 Platte
 Salzer, B. F. Lumber Co., Idaho & Virginia av
 Sayre-Newton Lumber Co., 23d & Blake
 Tabor-Pierce Lumber Co., W 1st av, c Santa Fe av

GREELEY—Chyton Lumber Co.
 Mayher, Wm.

CEBLO—Foley, T. H. Lumber Co.
 Newton Lumber Co.

TRINIDAD—Davis, O. L. Lumber Co.
 Hughes Bros. Lumber Co.

CONNECTICUT.

AVON—Woodford, H. W.
 BRIDGEPORT—§Burritt, A. W. Co.

Miller, Frank Lumber Co. (Saw Mill)
 Park City Lumber Co.

West End Lumber Co.
 HARTFORD—Capitol City Lumber Co.

*Conn. Valley Lumber Co.
 §Harlow Lumber Co.

§Hartford Lumber Co. (Pine, Hardwood Lath, Shingles, etc.)
 Taylor, Edwin Lumber Co.

MERIDEN—Bishop, Dexter L. Co. (Saw Mills)
 §Lyon & Billard Co.

NEW HAVEN—§Connecticut Box Co. (Lumber & Shooks, etc.)
 *Crosby & Beckley Co. (Hardwood)

§De Forest & Hotchkiss Co., 115 Water
 *Elm City Lumber Co.

Fogg, Ezra D. Co.
 Hartshorn, F. E.

§Lampson Lumber Co. (Spruce, Southern Pine, Cypress)
 *New Haven Saw Mill Co. (Southern Pine)

*Sanford & Treadway (Hardwoods)
 NEW LONDON—§Chappell, F. H. & A. H. Co.

*Raymond, L. Q. (Saw Mill, Ties, Poles, Timber, etc.)

NORTH HAVEN—Doolittle Bros. (Saw Mill)
 NORWICH—§Brewer, A. Henry

Potter, A. L. & Co. (Saw Mill)
 SALEM—Clark, M. S. (Saw Mill)

SEYMOUR—Hoadley, Edw. L. (Saw Mill)
 STAMFORD—§Getman & Judd Co.

TORRINGTON—*Wadhams, F. L. (Saw Mill)
 WALLINGFORD—Wallingford Lumber Co.

WATERBURY—Brass City Lumber Co., 60 Meadow
 City Lumber & Coal Co., 56 S Willow

§Tracy Bros. Co.
 Waterbury Lumber & Coal Co., 107 Meadow

WESTFORD—Barlow, A. G. & Son
 WEST HAVEN—Richards, H. H. Lumber Co.

WILLIMANTIC—Hillhouse & Taylor
 WINSTED—*Bronson Bros.

*Buckley, F. E. (Saw Mill, etc.)
 Burwell, J. C.

Tiffany & Pickett (Saw Mill)

DELAWARE.

LEWES—Arnell, Rolt.
 Ingram, A. P. & Co.

MILFORD—Milford Lumber Co.
 NEW CASTLE—Elaison, J. T. & L. E.

SEAFORD—Parsons, S. H. (Saw Mill)
 WILMINGTON—§Sanger, Geo. H. & Co.

§Cranston, John A. Lumber Co.
 Diamond Lumber Co.

*Kent, Lindley C. Co.
 Shummon, S. G. & Bro.

DISTRICT OF COLUMBIA.

WASHINGTON—Adam, Geo. H., 1800 Benning rd
 §Carter & Clarke, 10th St Wharf, S. W.

§Church & Stephenson, Sth & C. S. W.
 Crupper, Jos. L. (Saw Mill), 13th & Ohio av, N. W.

§Gallher, W. T. & Bro., 13th & B. N. W.
 §Johnson & Wimsatt, 1212 Water, S. W.

§Libbey, Frank & Co., 6th & New York av.
 §Libbey, J. E., 3018 K. N. W.

*O'Brien & Hall, 10 St Whit, S. W.
 §Riley, T. R., 13th & Ohio av, N. W.

§Shryock, T. J. & Co., S Capitol & Va. av
 Smith, Thos. W., 1st c Ind. av, N. W.

FLORIDA.

APALACHICOLA—*Cypress Lumber Co. (Band Sawed Gulf Cypress, Long, etc.)
 BAKERS MILLS—High, Jno. (Saw Mill)

BAYARD—Dannelly, J. M. & Son
 BLUFF SPRINGS—Byrne, P. C. (Saw Mill)

CARRABELLE—*Franklin County Lumber Co.
 CARTERS—Carter Mfg. Co. (Shingle Mill)

Carver, D. O. (Crute Mill)
 CARYVILLE—*Wood, Geo. E. Lumber Co.

CENTURY—*Alger-Sullivan Lumber Co. (Yellow Pine)
 COLEMAN—Turner, J. T. & Co. (Yellow Pine)

DE FUNIAK SPRINGS—*Beach, Rogers & McPhail Lumber Co.

DUPONT—White, U. J. Co. (Saw Mill)
 FERNANDINA—Borden, N. B. & Co. (Pitch Pine Exporters)

*Cooney, Eckstein & Co.
 Duryee, W. B. C. (Lumber Broker)

McNair & Son (Saw & Planing Mill)
 HARNEY—*Beckwith & Warren Bros.

*Seminole Cypress Co.
 JACKSONVILLE—Baxter, G. S. & Co.

Corse, Montgomery (Shingle Mill)
 *Cummer Lumber Co. (L. L. Yellow Pine)

*Ensign Lumber Co.
 Eppeuger & Brunsell Co. (Yellow Pine), Dyall Upchurch bldg

Gress Mfg. Co. for Fla.
 Hirsch Lumber Co.

*Hunter, Dexter (Yellow Pine)
 Long, F. W. & Co. (Cypress & Yellow Pine)

*West Lumber Mfg. Co.
 *Weston-Zaring Co.

MARYSVILLE—*West Florida Hardwood Co. (Ash, Hickory, Bay, Poplar, Cottonwood, Red Gum & Red & White Oak)

MONTBROOK—*McNair & Wade Lumber Co.
 *Tyler, T. M. Lumber Co.

MUSCOGEE—*Southern States Lumber Co. (Yellow Pine)
 NOCATEE—*King Lumber & Mfg. Co.

PALATKA—*Selden Cypress Door Co. (Cypress)
 Tilghmann, N. J. & Sons (Lumber & Shingle Mill)

*Wilson Cypress Co. (Cypress Lumber, Shingles, etc.)
 PENSACOLA—*Baars, H. & Co. (Pitch Pine)

*Keyser-Muldon Co. (Exporters)
 *Pensacola Lumber Co. (Pitch Pine Exporters)

Robinson-Point Lumber Co. (Saw Mill)
 §Robinson, Rix M. (Exporter)

Rumyan Co. (Saw Mill)
 *Southern States Lumber Co.

PINE BARREN—*McMillan Mill Co. (Yellow Pine)
 PLANT CITY—Warnell Lumber & Veneer Co.

RODMAN—*Rodman Lumber Co. (Saw Mill)
 WALDO—Canther & Co. (Shingle Mill)

WATERTOWN—*East Coast Lumber Co. (Saw Mill)
 WEST LAKE—West Bros. (Saw Mill)

WEST PALM BEACH—Lairhart & Potter
 WHITEFIELD—Kelly, J. I. Co. (Saw Mill)

WHITE SPRINGS—*Camp, R. J. & B. F. Lumber Co. (Yellow Pine)
 WILLISTON—*Medlin, R. D. & Co. (Yellow Pine)

GEORGIA.

ABBEVILLE—*Wilkinson Co. (Shingle Mill)
 ADRIAN—Rentz, E. P.

AILEY—Conroy, J. A.
 Sharpe, Grove (Saw Mill)

AIMAR—Aimar, W. W. (Saw Mill)
 ALAMO—Sears, H. L. (Shingle Mill)

ALLAPPAH—Allapaha Lumber Co.
 ASHBURN—*Betts, J. S. Co. (Yellow Pine, Lumber, Lath & Shingles)

ATHENS—Moss, R. L. Mfg. Co. (Planing Mills)
 ATLANTA—*Alexander Lumber & Mfg. Co., 606 Empire bldg

Atlanta Hardwood Co., McDonough rd, Sou Ry.

Colcord Lumber Co., Peters bldg.
 §Crockett, D. T., Fourth Nat'l Bk bldg

*Enterprise Lumber Co., 603 Candler bldg
 George & Allen Lumber Co., Empire bldg

§Haas, Albert Lumber Co., 1030 Candler
 *Hesch Lumber Co., Century bldg bldg

§Lake, Frank G., 24 Walton
 §Lowe, E. E. Co., Fourth Nat'l Bk bldg

§Piedmont Lumber Co., Austell bldg
 *Ray, D. J., 510 Temple ct

*Royal Lumber Co., Empire bldg
 §Simpson & Harper, Fourth National Bank bldg

§Smith & Simpson Lumber Co., Peters bldg
 Union-Tenopolis Saw Mills, Empire bldg

§West Lumber Co., Peters bldg
 Williams, G. O. (Lumber & Planing Mill), 391 Marietta

Willingham, E. G. & Sons (Lumber & Planing Mill), 342 Whitehall

WILLINGHAM—Lift Lumber Co., 200 Murphey

Woodward Lumber Co., 25 Murphey
 §Zuber, J. W., Empire bldg

AUGUSTA—*Augusta Lumber Co. (Long Leaf Yellow Pine)
 *Perkins Mfg. Co. (Yellow Pine)

RAINTREE—*Flint River Lumber Co. (Yellow Pine)
 §Ramsey-Wheeler Co. (Yellow Pine)

*Swindell, E. & Co. (Mfrs. & Exporters of Yellow Pine)
 BEECH HILL—Ivey, H. J. (Saw Mill)

BLAKELY—*Flowers Bros. Lumber Co. (Yellow Pine Rift Flooring a Specialty)
BRINSON—*Stuart Lumber Co. (Yellow Pine)
 Warren, S. J. (Saw Mill)
BRUNSWICK—*Aiken, Frank D. (Red Cypress & R. R. Ties, for Export, etc.)
 Broadhead, Jas. E. (Lumber & Cross-ties)
 Brown & Co. (Cross Ties, Lumber)
 *Cooney, Eckstein & Co. (Yellow Pine Lumber & Cross Ties)
 *Emanuel, N. & Co. (Lumber & Cross Ties)
 Hirsch Lumber Co.
 *Taylor-Cook Cypress Co. (Yellow Pine)
CEDARTOWN—*Bailey, S. C. (Saw Mill)
CORDELE—*Cordele Lumber Co. (Lumber, Shingles & Lath)
DALTON—*Alaculsey Lumber Co.
 *Cherokee Mfg. Co.
 *Farrar Lumber Co. (Yellow Pine, Brackets, Blocks & Mill Finish)
DARIEN—*Hilton & Dodge Lumber Co. (Cypress & Yellow Pine)
ELLIJAY—*Shippen Bros. Lumber Co.
KESTLER—*Boyd-McDavid Lumber Co. (Yellow Pine)
LAGRANGE—*Pike Bros. Lumber Co.
LAWRENCEVILLE—*Ambrose, J. A. & Co.
 Jackson, C. P. & Bro. (Saw Mill)
LONG POND—*Calloun, J. W. & Wm. (Saw Mill)
LUMBER CITY—*Ocmulgee River Lumber Co.
LYONS—*Thompson, J. L. (Saw Mill)
MACON—*Masse & Felton Lumber Co.
MINEOLA—*Mineola Mill Co. (Yellow Pine)
MOULTRIE—*Colquitt Lumber Co.
 Corbett & Taylor (Saw Mill)
 *Daugherty, Morrison & Co.
 *Huber, Norman Lumber Co.
 *Southern Lumber Co.
MOUNT PLEASANT—*Aiken, L. R. & Bro.
NEWMAN—*Cole, R. D. Mfg. Co.
OCILLA—*Ensign-Oskamp Co. (Saw Mill)
OLYMPIA—*West Yellow Pine Co.
ROME—*O'Neill Mfg. Co. (Yellow Pine)
SAVANNAH—*Bacon, A. S. & Sons (Shingles, Lumber, etc.), 15 Whitaker
 Calloun, J. A. (Exporter), 228 Bay E
 *Craig, G. F. & Co.
 *Dixon Lumber Co. (Planing Mill, etc.)
 *Eagle Mfg. Co. (Boxes, etc.)
 *Georgia Pine Co.
 *Granger & Lewis (Wholesale Export Lumber)
 *Hend Lumber Co.
 *Hirsch Lumber Co. (Lumber, Bridge Timber, Poles, Ties, etc.)
 Jarrett Bros. (Saw Mill, etc.)
 Perez-Petlito & Co. (Exporters Lumber)
 *Reppard, Snedeker & Co. (Lumber & Shingles)
 *Southern Pine Co. (of Georgia). (Yellow Pine Lumber, Rough & Dressed Shingles, Lath, Mouldings, Newell Posts, Railusters, Flooring & Heavy Timber)
 *Vale Royal Mfg. Co. (Shingle Mill)
THOMASVILLE—*Phillips, J. L. & Co.
TIFTON—*Gress Mfg. Co.
 *Phillips Lumber Co.
 *Tift, H. H. (Yellow Pine)
 Tift Lumber & Mfg. Co. (Planing Mill)
VALDOSTA—*Fender Lumber Co. (Saw & Wadley—Wadley Yellow Pine Co.)
WRIGHT—*Garbut Lumber Co.
ZENITH—*Pearson & Avera (Saw Mill)

IDAHO.

BOISE—*Pavette Lumber & Mfg. Co.
 *Ridenbaugh, W. H. (Lumber & Saw Mills)
 *Rudy Creek Lumber Co.
 *Shaw Lumber Co. (Lumber & Saw Mills)
COEUR D'ALENE—*Coeur d'Alene Lumber Co.
 Lewis, B. R. Lumber Co.
 Reeves-Farrel Lumber Co.
 Woods Lumber Co. (Saw Mill)

ILLINOIS.

ANNA—*Anna Lumber & Mfg. Co.
BELLEVILLE—*Helmrich Lumber Co.
 Lese Lumber Co.
 Rels, J. B. Lumber Co.
 Rels, M. & H.
BENTON—*Ward, T. J. (Saw Mill)
CAIRO—*Atwood, F. H. Lumber Co. (Lumber & Boxes, Veneered & Sawed Egg Cases, Box Shooks, etc.)
 *Chicago Mill & Lumber Co. (Lumber & Box Shooks)
 *Dunbar Mill & Lumber Co.
 *Hurd, O. P., Jr., & Co., Cairo, Ill.
 Langan, Peter T. (Saw Mill)
 Nordman, F. W. (Planing Mill)
 Smith, W. E. Lumber Co. (Red & White Oak)
 *Sondhelmer, E. Co. (Hardwood & Quartered Sawed Oak)

*Three States Lumber Co. (Hardwood, Domestic & Export Cottonwood & Gum for Boxes)
 *Wels-Peterson Box Co. (Sawed & Veneered Egg Cases, etc.)
HARLESTON—*Andrews, B. P. & Co.
CHICAGO—*Adams, Herbert L. (Commission Merchant), 38th, S W, c Morgan
 Alexander Lumber Co., 77 Jackson bou
 *Allen, Edmund A. (Commission Merchant), 138 Washington
 Anguera Lumber Co., Fisher bldg
 Attley, J. M. & Co., 9 Jackson bou
 Bader, Ross & Co., Dominick ft A
 *Baker Lumber Co., 204 Dearborn
 *Bay De Noquet Co., 817 Railway Exchange
 *Benedict, John S. (Hardwood & Wagon Stock), 135 N Halsted
 *Bigelow Bros. & Walker Co. (Yellow Pine Cypress & Hardwood), 131 La Salle
 *Bowen, Chas. P., 184 La Salle
 *Brooks & Ross Lumber Co. (Pine & Hemlock), 171 La Salle
 Buckner-Saunders Lumber Co., 279 Dearborn
 *Burns, Jno. E., Lumber Co. (Yellow Pine), 40 W Chicago av
 *Carey-Lombard Lumber Co., 205 La Salle
 Carney Bros. Co., 129 Monroe
 *Caryl, Alex. H. (Commission Merchant), 138 Wash'n
 Chandler Lumber Co., 100 Elston av
 *Chicago Car Lumber Co. (Fir, Oak & Yellow Pine Timbers, Ties, Railroad & Car Materials), Pullman bldg
 *Chicago Lumber & Coal Co., 138 Wash'n
 *Chicago Mill & Lumber Co., 140 W Chicago av
 *Church, Geo. E. (Commission Merchant), 6106 Greenwood av
 *Cicero Lumber Co., W Lake & N 5th av
 *Continental Lumber Co. (Piling & Heavy Timber), Monadnock blk
 *Cottage Grove Mfg. Co. (Sash, Doors, Blinds), 91 38th
 *Crandall & Brown (Red Cypress), 3300 Center av
 *Crane, W. B. & Co., 214 W 22d
 *Cross, Clarence L. (La. Red Cypress), Monadnock blk
 *Darling, Chas. (Hardwood), 22d & Center av
 *Deacon, J. C. & Co. (Pine), Loomis n W 22d
 *Deeves, G. H. Lumber Co. (Hardwood), 1505 Railway Ex bldg
 De Vries, S. J. & Co., 942 W 47th pl
 *Dodge, P. G. Lumber Co. (Poplar, Oak & Chestnut), 2116 Lumber
 *Douglas, D. B. & Co., Monadnock blk
 *Empire Lumber Co. (Cherry, Oak & Chestnut), C & Southport av
 *Estabrook-Skeele Lumber Co. (Oak, Ash, Gum, Wagon Stock, etc.), Fisher bldg
 *Fathauer, Theo. Co. (Hardwood), 235 Cherry av
 *Flanner-Steger Land & Lumber Co. (Hardwood, White Pine, Yellow Pine, etc.), Fisher bldg
 *Frees, Benj. M., 234 La Salle
 *Gillespie, John Lumber Co., Lumber & Seward
 *Gillis & Moulton (Piling & Heavy Timbers), 204 Dearborn
 *Gourley, Arthur Co. (Pines), 108 La Salle
 *Green, Geo. Lumber Co., W 22d & S Canal
 *Gunderson, Sever T. (R. R. Ties, Cedar Posts, etc.), Chamber of Com. bldg
 *Gustorf, Fred'k (Commission Merchant), 108 La Salle
 Hapeman, Edgar Lumber Co., 134 Monroe
 *Hartwell, Edwin S., Lumber Co. (Pine), 279 Dearborn
 *Hayden & Westcott Lumber Co. (Pine & Quartered Sawed Oaks, Poplar, Rock Elm, Yellow Pine, etc.), 9 Jackson bou
 *Heath, Witbeck & Co. (Maple, Cypress & Basswood), 6 Madison
 *Hendrickson, F. S. (Lath, Gum Squares, Cottonwood, Elm, etc.), Masonic Temple
 *Herbert, Wm. A. & Co., 131 La Salle
 *Hettler, Herman H. Lumber Co. (Maple Flooring "Monarch Brand"), 1324 Elston av
 *Hines, Edward Lumber Co. (All Kinds), Lincoln S of Blue Island av
 *Holt Lumber Co., 315 Dearborn
 *Houston, Geo. T. & Co. (Yellow Pine Hardwood & Cypress), Tribune bldg
 Howe, James, Lumber Co., 12 State
 Howes Lumber Co., 17th & Wallace
 *Industrial Lumber Co. (Yellow Pine), Ry Exch bldg

*Joyce, W. T. Co., 206 La Salle
 *Kelth Lumber Co. (Mahogany & Foreign Woods), W 14th & Wood
 *Kelley, W. E. & Co., 9 Jackson bou
 Kenler Lumber Co., Division & Halsted
 *King, W. O. & Co. (Yellow Pine, Maple, Cuban & Mahogany & Hardwood), 1026 S Loomis
 *Kirby Lumber Co., 9 Jackson bou
 *Knudson & Mercer Lumber Co. (White & Yellow Pine, Lath, Shingles, etc.), 42 Madison
 *Lesh & Matthews Lumber Co. (Native & Hardwood), 204 Dearborn
 *Lewis, E. H. Lumber Co. (Fir Timbers, Fir, Cedar & Spruce Lumber), 173 W Lake
 Lockwood & Strickland Co., Halsted & 49th
 *Lombard, E. B. (Pine & Hardwoods), Ry Exch bldg
 *Lord & Bushnell Co. (Yellow Pine), W 22d & Center av
 Lowe, Perley & Co., Ry Exch bldg
 *Marsh & Bingham Co. (L. L. Yellow Pine, also Fir & Oak), Old Colony bldg
 Mears-Slayton Lumber Co., 1103 Belmont av
 *Mercer & Brannum (White & Yellow Pine, Lath, Shingles, etc.), 42 Madison
 *Messinger Hardwood Lumber Co. (Hardwood), 884 Elston
 *Mickle, Geo. T. Lumber Co. (Yellow Pine, Timber, etc.), Chamber of Commerce bldg
 *Miller Bros. (Hardwood), 2117 S 40th av
 *Miller, C. P. & Co. (Wisconsin Lumber, Lath, Shingles, etc.), 9 Jackson bou
 *Miller, Jas. G. (Commission Merchant), 108 La Salle
 *Miller, Wm. H., 131 La Salle
 *Mississippi Lumber Co. (Long Leaf, Yellow Pine), 9 Jackson bou; Mills: Quitman, Miss.
 Nourse-Taylor Lumber Co., 138 Wash'n
 *Oconto Co., Masonic Temple
 *Papcke-Light Lumber Co. (Box Shooks & Nail Works), W Chicago av & N Sangamon
 *Paine Lumber Co. (Mill Work), Railway Exchange bldg
 Paltzer, C. A. Lumber Co., 3800 S Centre ave
 *Pate, D. S. Lumber Co. (Long Leaf Yellow Pine), Fisher bldg
 *Pike & Dial (Commission Merchants), 204 Dearborn
 Pilsen Lumber Co., W 22d c Laflin
 *Porter, Frank (Commission Merchant), 138 Washington
 Pulaski Lumber Co., 898 N Robey
 *Rittenhouse & Embree Co. (Oak & Maple Flooring), 100 Easton av
 *Sagola Lumber Co., 9 Jackson bou
 Santee River Cypress Lumber Co., 115 Adams
 *Sargent Lumber Co., 163 Randolph
 Schroeder, Wm. Lumber Co., 1824 Lincoln av
 *Schultz Bros. (Maple, Oak & Pine Flooring & Cedar Poles, etc.), Old Colony bldg
 Schultz Bros. & Cowen (Poplar, Oak, Ash, Chestnut, etc.), Old Colony bldg
 *Serrell, W. L. (Fir, Spruce, Cedar, Redwood, Sugar Pine), Monadnock bldg
 Shoot, W. E. & Co., 315 Dearborn c Laflin
 *Soper Lumber Co., 22d & Loomis
 *South Side Lumber Co. (Maple & Oak Flooring), W 22d & Ashland av
 *Spalding Lumber Co. (Lumber, Lath & Shingles), 115 Adams
 *Spry, John Lumber Co., W 22d & S Ashland av
 Stewart, A. T. Lumber Co., Chamber of Commerce bldg
 Stone, Frank R., Ry Exch bldg
 *Street, Chatfield & Co., 25 W Fullerton av
 *Thompson Lumber Co., Ry Exch bldg
 *Thornton, E. A. Lumber Co. (Box Shooks), Chamber of Commerce bldg
 *Tibbets-Cameron Lumber Co., 644 Greenleaf av
 *Trainer Bros. Lumber Co., 999 Loomis
 *Turnbull-Joice Lumber Co. (Yellow Pine), 1200 164 Dearborn
 *Underwood, J. Platt, 4843 Lake av
 *Upham & Agler (Hardwoods), 125 Monroe
 *Vinnedze, A. R. Lumber Co. (Hardwoods), 386 N Branch
 Walworth & Neville Mfg. Co. (Yellow Pine), Heyworth bldg
 *Ward Lumber Co. (Hardwood), Chamber of Commerce bldg
 *Wells, R. A. Lumber Co. (Hardwood), 234 La Salle

Wheelock Lumber & Mfg. Co., 945 N Campbell av
 *White Lake Lumber Co., 138 Washington
 *White Lumber Co. (Hardwood), 138 Washington
 White River Lumber Co., 9201 Harbor av
 *Wilce, T. Co. (Maple & Hardwood Flooring, Polished & Matched Ends), 788 Throop
 *Wood, Geo. E. Lumber Co. (Wls. Pine), 125 Monroe
 *Wulchet, Louis (White Pine, Sugar Pine & Soft Pine), R'y Exch bldg
 COBDEN—Bell, James (Est. of) (w. & r. lumber)
 *Mesler, W. P. & Co. (Lumber & Fruit Boxes)
 CREAL SPRING—Dugger, A. A. (Lumber)
 DALE—*Roundtree & Thompson (Staves)
 DANVILLE—Danville Lumber Co.
 Hooten, Chas. B.
 Trent Bros.
 DECATUR—*G. S. Lyons & Sons Lumber & Mfg. Co.
 EAST ST. LOUIS—*Eade, J. C. Mfg. Co.
 *East St. Louis Lumber Co., 8th & Alr Line Ry.
 *Goedde, B. & Co., Missouri av & 10th
 Reis, H. G. Lumber Co.
 ELGIN—Rinehlmer Bros. Mfg. Co.
 FULTON—*Joyce Lumber Co. (Lumber, Lath, Shingles & Mouldings)
 GALESBURG—*Simpson, Jas. C. & Co.
 HOOPESTON—Moore & McFerren (Saw Mill, Lumber & Cottonwood Box Shooks)
 KELL—Hays, O. G. (Saw Mill)
 KENNEY—*Andrews, B. P. & Co.
 LA SALLE—Hunter, Stevens & Co.
 McLEANSBORO—*Wright, T. B. & Sons
 MARTINSVILLE—Sallee, Thos. M. (Saw Mill)
 MATTOON—*Andrews Bros.
 *Gabbert Lumber Co. (Lumber & Planing Mill)
 METROPOLIS—*Harris & Cole Bros. (Poplar & Oak Lumber, Wagon Box Material, Turned Work & House Trimmings, Export & Turned Work)
 MOLINE—*Dimock, Gould & Co.
 MOUND CITY—*Meyer, C. F. & Co. (Staves and Headings)
 *Williamson-Kny Mill & Lumber Co. (Southern Hardwoods, Long Oak Timber, Lath)
 MOUNT VERNON—*Louth, J. W. (Hardwood)
 NEBO—Minler Bros.
 OAK PARK—Barr & Collins
 PEORIA—*Benedict, C. D. & Co. (Yellow Pine)
 *Hhuzle, Miss Jane M.
 Kuetzger, Chas. Lumber Co.
 *Lord, Lee H. & Co.
 Miller, Joseph & Sons (Lumber and Contractors)
 Proctor, J. C. Lumber Co.
 PERU—Maze, Walter H. & Co. (Planing Mill)
 QUINCY—*Menke-Grimm Planing Mill Co.
 Moller & Vanden Boom Lumber Co.
 ROCKFORD—*Parsons Lumber Co.
 *Smith, Du Plain & Crumb Co.
 *Stone, F. P.
 ROCK ISLAND—*Rock Island Lumber & Mfg. Co. (Lumber, Lath & Shingles)
 *Weyerhaeuser & Denkmann Co. (White Pine)
 SPRINGFIELD—Eielson, A.
 Schuck, J. H. & Son
 VANDALIA—Sonneman, C. G.
 WEST SALEM—Fisher, A. (Saw Mill)
 WINCHESTER—Hunter, Allen & Co.

INDIANA.

AKRON—Akron Lumber Co.
 ANDERSON—Atherton, M. & Sons (Planing Mill)
 Springer, Geo. E. (Planing Mill)
 Winters, Mercer & Brannum Lumber Co.
 ATTICA—Attica Lumber Co.
 Martin, H. C. & Co.
 AVILLA—Yeiser Bros. (Saw & Planing Mill)
 BATESVILLE—Hillenbrand (The) Co.
 BEDFORD—Lanz-Fry Lumber Co.
 BERNE—Berne Lumber Co. (Saw Mill)
 BIRDS EYE—Southern Indiana Mfg. Co. (Spokes & Bldg Material)
 BLOOMINGTON—Fulwider, W. A. (Lumber)
 *Waldron, III & Buskirk (Hubs & Spokes)
 BLUFFTON—Cline, A. B.
 Eaton, Jas. B. (Lumber & Piling)
 BOONVILLE—*White, C. P. Lumber Co. (Hardwood, Quartered Oak)
 White, R. B. Lumber Co.
 BRAZIL—Brazil Lumber Co.
 Kenney, N. T. Lumber Co. (Saw Mill)
 Wilder, C. E. & Co. (Planing Mill)
 BROOKVILLE—Ferris, John & Son (Planing Mill)
 BROWNSTOWN—Cunningham, J. W. (Saw Mill)
 CONNERSVILLE—Connorsville Lumber Co.
 CONVERSE—*Murphy & Kenny (Lumber & Planing Mill)
 CORYDON—Hickman, Levi (Saw Mill)
 COVINGTON—Williams, Geo. W. (Saw Mill)

CRAWFORDSVILLE—Big Four Lumber Co. (Lumber & Veneerlug)
 Burkholder, Saml. Lumber Co. (Hardwood)
 Hoosier Stave & Lumber Co.
 CROWN POINT—Root, D. A.
 CUMBERLAND—Duncan & Barrett (Saw Mill)
 DARLINGTON—*Lyuch, W. B. (Lumber & Saw Mill)
 DUNKIRK—Dunkirk Lumber Co.
 DUPONT—Graston, G. W. (Saw Mill)
 *Guthrie, W. A.
 EAST CHICAGO—*Lesh, Prouty & Abbott Co. (Walnut exclusively)
 EDINBURG—*Maley, Henry (The) Co. (Hardwood)
 ELKHART—*Eik Valley Lumber Co.
 Martin & Amlon
 Mouger, C. L. (W. & Com. Lumber)
 *Monger, R. W.
 ELWOOD—Hedrick, Homer (Saw Mill)
 Heffner's, Louis Sous (Saw & Planing Mill)
 Winters Lumber Co.
 EVANSVILLE—*Evansville Planing Mill Co.
 *Helfrich Lumber & Mfg. Co. (Saw Mill)
 *McPerson & Foster (Cottonwood, Poplar Box Shooks)
 *Maley, Hy. Lumber Co. (Quartered White Oak, Plain Red & White Oak, Poplar, Hickory, Ash & Walnut)
 *Maley & Wertz (Hardwoods, Quartered Oak & Saw Mill)
 Reitz's, Clemens Sons Co. (Saw Mill)
 Reitz, John A. & Sons. (Saw Mill)
 Schultze, Waitman & Co. (Saw & Dimension Mill)
 Thompson, Thayer & McGowan (Saw Mill)
 Von Behren Mfg. Co. (Spokes & Beutwood)
 *Woldfin-Luhning Lumber Co. (Yellow Pine & Southern Hardwoods)
 Young & Cntlinger (Saw Mill)
 FERDINAND—*Beckman, J. H. & Sauer (Saw & Planing Mill)
 FORT WAYNE—*Diether Lumber Co. (Hardwood)
 Fort Wayne Lumber Co.
 Frank, H. (Planing Mill)
 *Gilmartin, Edw. (Hardwood & Planing Mill)
 Hilker Bros. (Saw Mill)
 *Hoffman Bros. Co. (Hardwood & Veneers)
 Klett, Jacob & Sons (Planing Mill)
 *Mossman, Wm. E.
 *Perrine-Armstrong Co. (Long Timber, etc.)
 FOWLER—Evans & Callaway
 FRANKFORT—Benefield & Son (Saw Mill)
 GOSHEN—*Irwin, Jno. W. (Est. of)
 *Sanders & Egbert Co. (Hardwood)
 *Young-Greene Lumber Co. (Hardwood)
 GREENCASTLE—*Baruaby, C. H. (Hardwoods & Oak Veneers)
 GWYNNEVILLE—*Wilcoxon, W. W. (Hardwood)
 HAGERSTOWN—Werkling & Keagy (Saw Mill)
 HARTFORD CITY—*William Lumber Co. (Saw Mill & Lumber)
 *Winklebleck & Walters (Saw Mill & Hardwood Lumber)
 HUNTINGTON—Kenower, John & Sons (Hardwood & Planing Mill)
 INDIANAPOLIS—Advance Veneer & Lumber Co., Mass. av & Adams
 *Bachman, F. M. Co., Madison av & Lincoln
 *Buddenbaum Lumber Co., New York & Pine
 Capitol Lumber Co., 849 Mass. av
 *Carter, Lee & Co., 1621 W Washington
 *Christian Lumber Co. (Hardwood), 701 E. Wash'n
 *Dickson, Jas. C. (Oak, Ash & Poplar), 936 E. Vermont
 *Dynes Lumber Co., E 30th & Monon Ry
 Eaglesfield, Wm. Co., 19th & L E & W R R
 *Elchholtz, Geo. W. & Son, Lemcke bldg
 Eldridge, E. H. Lumber Co., 312 S New Jersey
 *Foster Lumber Co. (Hardwood, Veneered Doors, Mantels, Stairways, etc.), 802 N Senate av
 Greer-Haughton Lumber Co., 822 Indiana
 *Indianapolis Manufacturers' & Carpenters' Union (Pine, Poplar & Ash), 203 S New Jersey
 *Long-Knight Lumber Co. (Plain & Quartered Oak, White Ash, etc.), 1025 Lewis
 *Mainland Mfg. Co. (Hardwood), 2406 Yandes
 Mass-Nelmeyer Lumber Co., E 22d & Monon R. R.
 *Michigan Lumber Co. (Long Jolt & Heavy Timber), 929 E St Clair
 *Pinnell, J. W., State Life bldg
 Pratt, G. C. Law bldg
 *Tulge Muhogany Co., 1101 E 13th
 *Walnut Lumber Co. (Hardwood), 1321 Lewis
 Wright-Bachman Lumber Co., Madison av & Lincoln
 KOKOMO—*Armstrong-Landon Co. (Hardwood & Pine)
 Indiana Lumber Co.
 LAFAYETTE—*Lafayette Lumber & Mfg. Co.

LOGANSPOUT—Fernald, W. L. (Saw Mills)
 Stevens-Bligh Lumber Co.
 MARION—*Barley & Spencer Lumber Co.
 *Marion Lumber Co.
 MICHIGAN CITY—*Colburn, A. R. Co.
 MUNCIE—Kirby-Wood Lumber Co.
 Muncie Lumber Co.
 NEW ALBANY—*Roberts & Conner Co. (Veneer & Lumber)
 NEW MARKET—*Childers, W. R. (Hardwood)
 NORTH VERNON—*Cone, J. D. (Spokes, etc.)
 *Litchfield Bros. (Hardwood)
 *North Vernon Lumber Co. (Hardwood)
 PLEASANT LAKE—*Goodwin Lumber Co.
 PLYMOUTH—*Morris, C. L. (Saw & Planing Mills)
 PORTLAND—*Adams, D. L. Co. (Staves & North, Frazier & Co. (Saw Mill) Headings)
 PRINCETON—*Nickey, A. B. & Sons (Hand Sawn Hardwood)
 RICHMOND—*Johnson, B. & Son (Lumber, Piles & R. R. Ties)
 *Kramer, C. & W. (Hardwood)
 ROCKVILLE—*Ferguson & Co. (Planing Mill)
 RUSHVILLE—*Case, J. D. (Hardwood)
 Pinneil-Tompkins Lumber Co.
 SALEM—*McCowen, H. A. & Co.
 SEYMOUR—*D'Heur & Swain Lumber Co. (Hardwood)
 SHELBYVILLE—*Frechtling & Morner (Saw Mill & Bending Works)
 Stroup, S. P. Lumber Co.
 SOUTH BEND—*Indiana Lumber & Mfg. Co.
 Miller & Donahue Lumber Co.
 Page, R. G. Lumber Co.
 *Perley Hardwood Lumber Co. (Hardwood & Bent Stock)
 TERRE HAUTE—*Hooton, R. A. & Co.
 VINCENNES—*Maley, Wertz & Snapp (Hardwoods)
 WASHINGTON—*Murdock Lumber Co. (Hardwood Lumber & Veneers, Fancy Figured Quartered Oak a Specialty)

INDIAN TERRITORY.

ARDMORE—Chickasaw Lumber Co.
 CHICKASHA—Stephenson-Browne Lumber Co.
 MUSKOGEE—Muskogee Lumber Co.

IOWA.

BELLEVUE—*Bittner, Louis (Hardwood)
 *Dorchester & Hughey (White Pine)
 BOONE—Fehlisen-Rosacker Lumber Co.
 BURLINGTON—*Burlington Lumber Co. (White Pine)
 *Gilbert, Hedge Lumber Co. (Sash & Door Factory)
 Rand Lumber Co. & Planing Mill
 CEDAR FALLS—*Harris & Cole Bros. (Poplar & Oak Lumber, Wagon Box Material, Turned Wood & House Trimmings) Export
 Turned Work
 CEDAR RAPIDS—Cedar Rapids Lumber Co.
 Fay Bros. & Co.
 Limback & Jeffrey
 Williams & Hunting Co. (Planing Mill)
 CLINTON—*Curtis Bros. & Co. (Mill Work)
 Ingwersen, Borbeck & Co.
 Pickets, Flooring, Siding, Ceilings, etc.)
 Peterson, Bell & Co. (Box Shooks & Crates, etc.)
 CORYDON—Corydon Lumber Co.
 COUNCIL BLUFFS—*Bluff City Lumber & Coal Co.
 *Hoagland, Geo. A.
 *Quinn, H. A. Lumber Co.
 DAVENPORT—Hayward, W. C.
 Lindsay Land & Lumber Co.
 Loggins (The) Co.
 *McClelland, T. W. Co.
 *Mueller Lumber Co. (Saw Mill)
 *Roberts, U. N. Co.
 Smith, J. J. Lumber Co.
 *Weyerhaeuser & Denkmann
 Woodruff-Kroy Co. (Slack Cooperage Stock, Butter Tub Stock, etc.)
 DES MOINES—*Chicago Lumber & Coal Co.
 Beaver Lumber Co. 1100 Walnut
 *Gilest, J. K. & W. H. Co., 4th & Vine
 *Green Bay Lumber Co., Equitable bldg
 Jewett Lumber Co., E 7th & Walnut
 *Longshore, G. L. (Saw Mill), 8th nr Elm
 *Oregon Lumber Co., 516 Clapp blk
 *Ouel, J. H. Co., 201 E Grand av
 *Wheeler Lumber & Bridge Supply Co., 208 S 7th
 *Wisconsin Lumber Co., Youngerman blk
 DUBUQUE—*Carr, Ryder & Adams Co. (Sash, Day, W. H. Jr. Doors, Blinds)
 *Farley & Loetscher Mfg. Co. (Sash, Doors, Blinds)
 *Metz Mfg. Co. (Sash, Doors, Blinds, etc.)
 *Standard Lumber Co.
 FORT DODGE—Chapin, L. E.
 Conway, Owen & Sons
 Mason & O'Connell
 FORT MADISON—*Atlee, S. & J. C. (White Pine)

HAMBURG—Hydinger & James
 HARLAN—Dow & Sandham
 HAWARDEN—Schoeneman Bros. Co.
 INDIANOLA—Harlau, J. M. Lumber Co.
 KEOKUK—Carter, S. O. & S. Co.
 Schmidt, Henry & Sons Co.
 *Tuber Lumber Co.
 LEHIGH—Harrington, S. W.
 MANCHESTER—*Wolcott Bros. (Lumber & Shingles)
 MARSHALLTOWN—Buchwald, Chas. A. Lumber Co.
 Krentzer & Wagem (Planing Mill)
 MISSOURI VALLEY—Denn, C. H.
 MUSCATINE—*Muscatine Lumber & Box Co.
 *Musser Lumber Co. (White Pine)
 *South Muscatine Lumber Co. (Box Shooks)
 OSKAHOOSA—*Hawkeye Lumber Co.
 Kalbach Lumber Co.
 Porter, C. M. Lumber Co.
 OTTUMWA—Fletcher, H.
 McGavic, S. L. Lumber Co.
 REINBECK—Porter Lumber Co.
 SIOUX CITY—Blenkiron Bros., Inc.
 Ford & Hollandsworth Co.
 *Fullerton Lumber Co.
 Spaulding, J. D.
 WATERLOO—*Chapman, Chas. W. Lumber Co.
 *Nannmann Co.
 Waterloo Lumber Co.
 WOODLAND—*Jennings, W. H. & Bro.

KANSAS.

ATCHISON—Brockett B. L.
 *Carlisle, Pennell, Lumber Co.
 Ulrich, O. W. Planing Mill Co.
 CHANUTE—Chanute Lumber Co.
 CLAY CENTRE—Kreeck, L.
 COFFEYVILLE—Lapsley Lumber Co.
 Smith & Baly Lumber Co.
 EMPORIA—*Kansas Wholesale Lumber Co.
 Sprague, E. F. (Planing Mill)
 HUTCHINSON—*Hitchinson Lumber & Planing
 IOLA—Northrup Lumber Co. Mill Co.
 KANSAS CITY—Ellis, John W. (Planing Mill)
 LAWRENCE—Lewis, Luther N.
 LEAVENWORTH—Garrett, S. C., Lumber Co.
 Lambert Lumber Co.
 NEWTON—Swartz, S. M., Lumber Co.
 OLATHIE—Hodges Bros.
 PITTSBURG—*Pittsburg Planing Co.
 Sandford-Rohlfson Lumber Co.
 ROSSVILLE—*Thomas J. & Co.
 TOPEKA—*Thomas-Huycke-Martin Co. (Saw Mill)
 *Thomas, J. Lumber Co.

KENTUCKY.

ANGLIN—Eastern Kentucky Lumber Co.
 ARLINGTON—Arlington Headlug & Lumber Co.
 Stanley Lumber Co.
 ASHLAND—*Ashland Lumber Co.
 *Beckette Co. (Poplar & Oak)
 *Dawkins, W. H. Lumber Co. (Wholesale Poplar & Oak)
 *Herrmann H. Lumber Co.
 *Standard Planing Mill & Bldg. Co.
 *Strack, E. W. Lumber Co. (Oak, Poplar & Hickory Lumber & Mfrs. of Chair Stocks)
 *Vansant, Kitchen & Co.
 BARBOURSVILLE—*Ratcliff, Scent & Co.
 BARDWELL—*Bardwell Heading Co.
 Dunbar Mill & Lumber Co. (Piling, Bridge Timbers, Switch Ties, Car Stock, etc.)
 BENTON—Treas, R. G. Lumber Co.
 BIG CREEK—Moffitt-Bowman Lumber Co.
 BONNIEVILLE—Stamp, J. M. (Saw Mill)
 BOONSBORO—Stevens, H. L. (Saw Mill)
 BOWLING GREEN—Kister, F. L., Jr. (Saw & Planing Mill)
 *Roemer Bros. (Planing Mill)
 Russell, J. N. & K. M.
 BRADFORDSVILLE—Terhune's B. Sons (Saw Mill)
 BURKESVILLE—Ritchey, J. H. (Saw Mill)
 *Young Bros. (Lumber & Staves)
 BURNSIDE—*Kentucky Lumber Co. (Lumber & Saw Mill)
 CADIZ—*Woodruff Planing Mill Co.
 CAMPBELLSVILLE—*Campbellsville Lumber Co. (Hardwood)
 CANEYVILLE—Bond, W. T. (Cross Ties & Carrolton—*Adkinson Bros. Lumber)
 CATLETTSBURG—*Nigh, S. H. & Bro.
 CENTRAL CITY—*Central City Lumber & Central City Planing Mill Co. Mfg. Co.
 Fortney, T. Q. (Planing Mill)
 CLAY CITY—*Clay City Spoke Co.
 *Swann-Day Lumber Co. (Hardwood)
 COVINGTON—Covington Lumber Co. (Saw Mill, etc.)
 *Hellmann Lumber & Mfg. Co. (Planing Mill, etc.)
 DANVILLE—*Danville Lumber Co.
 *Taylor, Mitchell (Staves)
 ELIZABETHTOWN—Bond Bros. (R. R. Cross-ties)
 FORD—*Burt & Brabb Lumber Co. (Hardwood)

*Ford Lumber & Mfg. Co. (Hardwood)
 FRANKFORT—Belle Point Lumber Co.
 Capital Lumber & Mfg. Co. (Planing Mill)
 *Congleton, T. J. & Bro. (Saw Mill)
 *Kenney, T. E. (Saw Mill)
 *Kentucky River Poplar Co.
 FROZEN CREEK—Day, Floyd (Staves & Ties)
 GLASGOW—Davidson, L. T. (Saw Mill)
 *New Glasgow Planing Mill Co. (Hardwood Lumber & Bevel Siding, Oak & Beech Flooring)
 *Redman, Wm. (Staves)
 Smith, J. N.
 Spencer, Young & Co.
 HENDERSON—*Clare, F. L. & Son (Saw Mill)
 *Clare's, Joseph Son (Lumber, Saw & Planing Mills)
 *Henderson Lumber Co. (Saw Mill)
 HENSHAW—Runyan, I. V. (Lumber, Shingles & Logs)
 HIGHBRIDGE—Hughes, J. D. Lumber Co. (Saw & Planing Mill)
 IRVINE—Snowden, A. D. & W. M. (Saw Mills)
 JACKSON—*Day Bros. Co. (Hardwood)
 KEAVY—Storm Bros. (Lumber, Staves & Ties)
 Storm, John & Co. (Saw Mill)
 KINGS CREEK—Field, A. J. & Son (Saw Mill)
 KNOBLICK—Alleu, O. C. (Saw Mill)
 LEBANON—*Lebanon Lumber Co.
 LEXINGTON—Curran, Wm. & Son
 Hendricks Bros. & Co.
 Lexington Lumber & Mfg. Co. (Saw Mill)
 *Spotswood, E. R. & Son (Hardwood)
 LIMABURG—Rouse, W. R. (Saw Mill)
 LIVERMORE—Acker Lumber Co. (Saw & Planing Mill)
 Hackett, E. B. & Son (Saw & Planing Mill)
 *Quigg Mfg. Co. (Staves)
 LIVINGSTON—Livingston Lumber Co.
 LONDON—*London Mfg. Co. (Lumber)
 *Murphy, D. B. & Co.
 LOUISA—*Northrup, Jay H. (Ties, Lumber, Staves)
 LOUISVILLE—*Bell & Coggeshall Co. (Planing Mill)

Blue Grass Lumber Co. (Hardwood), Paul Jones bldg

*Brown, H. Van S. (Hardwood), 6th, bet. Hill & A
 *Casey, Jno. & Co., 231 3d
 *Central Planing Mill & Lumber Co.
 *Chicago Lumber & Lumber Co., Columbia bldg
 *Comstock, L. H. & Bro.
 *Cunningham, Robert M.

*Davis, E. L. Lumber Co. (Hardwood)
 *Fullenlove H. S. Lexington cor. 14th
 Gage, W. M., 735 W Green
 *Gamble Bros. (Inc.) (Yellow Pine, Yellow Poplar, Hardwood), 445 W Main

*Gernert Bros. Lumber Co. (Saw Mill)
 *Graham, S. P., 810 Magazine
 *Hubbard Bros. (Staves & Headings for Whiskey, Wine & Beer Barrels)

*Hughes, E. L. Co. (Base & Casing Columns, Sashes, Doors, etc.)
 *Hughes, W. J. & Sons Co. (Cedar Logs, Posts, etc.)

Kirwan Bros. (Saw Mill), Fulton & Adams
 *Koehler, H. & Co. (Planing Mill, Hardwood, Yellow Pine, etc.), 12th & B'way
 *Lortz & Frey Planing Mill Co. (Inc), 420 E Breckenridge

Louisville Point Lumber Co. (Saw Mill), 1000 Fulton
 Mehler & Eckstenkemper Lumber Co. (Cedar), 1042 E Main

*Mengel, C. C. & Bro. Co. (Saw Mill, Mahogany, Hardwood & Box Shooks; also Exporters), G c 5th
 *Moore, Hughes, Keller bldg

*Mody, G. E. & Co. (Ky. Planing Mill)
 *Norman Lumber Co. (Saw Mill, Hardwood, Ash, Oak, Poplar, Walnut, etc.)
 *Ohio River Saw Mill Co. (Saw Mill)

Parsons-Willis Lumber Co., Keller Bldg.
 *Russell, Frank B. (Beer Staves)
 Southern Lumber Co., Keller Bldg.
 *Stotz Lumber Co. (Inc.) (Cypress, Oak, Poplar, White Pine, etc.)

MARCELLUS—Pointdexter, C. K. (Saw Mill)
 MARYDELL—Gregory, N. M. (Saw Mill)
 MONICA—Hieronymus, G. D. & Bro. (Saw Mill)
 MONTICELLO—*Kentucky Hardwood Lumber Co. (Carriage & Wagon Material)

MOOREHEAD—*Bradley, S. M. (Mfr. & W. Lumber, Staves, etc.)
 MURRAY—*Hay, Jas. P., Lumber Co.
 NEW HOME—Hall, R. S. (Saw Mill)

NEWPORT—Voss, Frank (Lumber & Planing Mill)
 Weingartner's, Jos. Sons (Lumber & Planing Mill)
 OWENSBORO—Owensboro Planing Mill Co. (Hardwood)

PADUCAH—*Ferguson & Palmer Co. (Hardwood, Red & White Oak, Poplar, etc.)
 Folks, Acree, Lumber Co.
 *Lancaster-Orm Mfg. Co. (Saw & Planing Mill)
 *McKinney Vencer & Package Co. (Saw & Planing Mill)

*Paducah Vencer & Lumber Co. (Saw & Planing Mill)
 Sherrill, Kling, Mill & Lumber Co. (Saw Mill)
 Sherrill, Russell, Lumber Co. (Saw Mill)
 *Smith, A. B. Lumber Co.
 PINEVILLE—*Asher, A. J. (Saw Mill)
 *Gihson, J. J. & Son
 Kling, W. B. (Staves)
 King & Brooking (Staves, etc.)
 RINALDO—Mitchell, W. J. (Saw Mill)
 SALT LICK—Fell, W. J. (S. Lumber, Staves)
 Salt Lick Lumber Co. (Saw & Planing Mill)
 SFBREE—Brown & Luck (Saw Mill)
 SOMERSET—*Somerset Lumber & Mfg. Co.
 TORRENT—*Day, J. Taylor (Saw Mill)
 VALLEY VIEW—*Southern Lumber Co.
 VINEGROVE—Vinegrove Lumber Co.
 WALTON—*Mayhugh, J. D. Mfg. Co. (Lumber)
 WARSAW—*McDanell's, J. H. Sons (Poplar, Oak & Interior Finish)
 WASIOTO—*Asher, T. J. & Sons (Hardwood)
 WINCHESTER—Daniel, J. M. (Saw Mill)
 *Reliance Mfg. Co. (W. Lumber)
 Scobee, R. P. & Sons
 Winchester Lumber & Mfg. Co.

LOUISIANA.

ABBEVILLE—Stebbins E. M. & Co. (Lumber)
 ALBERTA—*Bienville Lumber Co. (Yellow Pine)
 ALDEN BRIDGE—*Strayhan, J. F. (Saw Mill)
 *Whited & Wheelless (Yellow Pine)
 ALEXANDRIA—Enterprise Lumber Co.
 Haystip & Dean
 International Lumber Co.
 Union Lumber Co. (Brokers)
 ALLEMANDS—Des Allemands Lumber Co., Ltd.
 ALLENTOWN—*Allen Bros. & Wadley, Ltd. (Yellow Pine)
 AMITE—*Hayden, J. Y. (Saw Mill)
 ANGIE—Saxou, L. J. & Sons (Saw Mill)
 ANSLEY—*Davis Bros. Lumber Co. (Ltd.), (Yellow Pine)
 ANTRIM—*Antrim Lumber Co. (Yellow Pine Lumber)
 ARCADIA—*Arcadia Lumber Co. (Ltd.)
 ARNOLDVILLE—Greig, George & Co.
 ATHENS—Pace & Gandy (Saw Mill & Lumber)
 BALDWIN—Baldwin Lumber Co., Ltd.
 BALL—*Ball, J. F. & Bro. Lumber Co. (Shingle & Saw Mill)
 BARHAM—*Pickering, W. R. Lumber Co. (Yellow Pine)
 BATON ROUGE—*Hopper, Samuel & Son (Saw Mill, Staves, etc.)
 BAYOU CHICOT—Johnson, Louis (Saw Mill)
 BAYOU SARA—Bayou Sara Lumber Co., Ltd.
 BERNICE—Bernice Lumber Co., Ltd.
 BLANCHARD—Dunn, L. M. (Saw Mill)
 BOLEY—*Caldwell-Norton Lumber Co. (Ltd.)
 BOLINGER—*Bollinger, S. H. & Co. (Ltd.), (Yellow Pine)
 BONAMI—*King-Ryder Lumber Co. (Yellow Pine)
 BONITA—*Whittet-Culton Cypress Co. (Saw Mill)
 BOUDREAUX—*Callion Mfg. Co.
 BOWIE—*Bowie Lumber Co. (Lumber & Shingle Mill)
 BREAU BRIDGE—Regnaud, Joseph W. (Lumber)
 Breau Bridge Lumber Co., Ltd.
 BRODNAX—Overbey Saw & Planing Mill
 BUNKIE—Haas, W. D. & Co. (Lumber & Saw Mill)
 BROUSSARD—Billeaud Lumber Co.
 BURTON—*Burton-Swartz Cypress Co.
 CANTON—*Powell, D. C.
 CHACHAHOULA—*Goodland Cypress Co.
 *CLARKS—Louisiana Central Lumber Co.
 CLAYTON—*Rhoades, E. C. Lumber Co. (Lumber & Saw Mills)
 COLDWATER—Louisiana Logging Co., Ltd.
 COLFAX—*Big Pine Lumber Co., Ltd.
 Latt Lumber Co.
 COTTON VALLEY—Porter-Wadley Lumber Co.
 *Valley Stave Co.
 COUSHATTA—Corley, W. C. (Saw Mill)
 CROWLEY—Mermentau Shingle Co.
 DE RIDDER—*Hudson River Lumber Co. (Yellow Pine)
 DONNER—*Dilbert, Stark & Brown Cypress Co. (Cypress, Lumber, Lath & Shingles, Mouldings, Finis & Pickets, Hewn & Sawn Ties & R. R. Timbers, etc.)
 DOSSMAN—Helmer & Dossman Co. (Saw Mill)
 EOLA—*Hosshi & McDonald Bros.
 FISHER—*Louisiana Long Leaf Lumber Co. (Yellow Pine)
 FLORIEN—*Florien Lumber Co.
 Williams Bros. Lumber Co.
 FORST HILL—Hurricane Creek Lumber Co.
 Randolph & Drouet (Saw Mill)
 FRANKLIN—*Kyle Lumber Co. (Ltd.)
 GARDEN CITY—Hansen, Albert Lumber Co. (Saw Mill)
 GARYVILLE—Lyon Cypress Lumber Co.
 GENESEE—Genesee Lumber Co.
 GIBSON—*Gibson Cypress Lumber Co. (Lumber & Saw Mills)

HAMMOND—Arnold Land & Lumber Co. (Saw
Hammond Lumber Co., Ltd. Mill)
HARVEY—Harvey Mfg. & Improvement Co.
(Ltd.)
*Louisiana Cypress Lumber Co. (Red Cy-
press, Lumber & Shingles)
HAWTHORN—Hawthorn Lumber Co.
HAYES—Hayes Cypress & Lumber Co.
HAYNESVILLE—Hickman, S. J.
HEAD OF ISLAND—Opdenweyer Cypress
Lumber Co. (Ltd.)
HOUMA—St. Louis Cypress Co. (Ltd.) (Lum-
ber & Shingles)
INDEPENDENCE—Day, L. D. & Son (Saw Mill)
Independence Veneer & Box Mfg. Co.
JEANERETTE—Jeanerette Lumber & Shingle
Co. (Cypress)
*Planters' Lumber Co. (Ltd.) (Cypress,
Lumber, etc.)
KENTWOOD—Brooks-Seanlon Lumber &
Saw Mill Co.
*Kent, Amos Lumber & Brick Co. (Yellow
Pine)
LAFAYETTE—Vordenbaumen Lumber Co.
(Ltd.)
LAKE ARTHUR—Phoenix Lumber Co. (Cy-
press, Lumber & Shingles) (Ltd.)
LAKE CHARLES—Bel, J. A. Lumber Co.
(Yellow Pine)
*Hodge Fence & Lumber Co. (Saw Mill,
Lumber, Fencing & Yellow Pine)
*Powell Lumber Co. (Lumber, Yellow Pine
Stout, J. C. (Saw Mill)
White, Son & Castle (Saw Mill)
Wilcox, C. B. (Exporter)
LAKE PROVIDENCE—Carroll Lumber Co.
(Ltd.)
LEES CREEK—Williams Bros. (Ltd.) (Saw
Mill)
LEESVILLE—Nona Mills Co. (Yellow Pine)
*Powell Bros. & Saunders Co., Ltd.
*Wingate, Thos. C. (Saw & Planing Mill)
LOGANSPOUT—Logansport Lumber Co.
LONG LEAF—Crowell & Spencer Lumber Co.
(Yellow Pine)
LORING—Bowman, Hicks Lumber Co. (Yel-
low Pine)
LUDINGTON—Ludington-Wells-Van Schaick
LUDIVINE—Fair Cypress Co.
LUTCHER—Lutcher & Moore Cypress Lumber
Co. (Red Cypress)
MADISONVILLE—Dendinger, Theo. (Saw Mill)
MARINGOIN—Wilson & Cochran
MARKSVILLE—Pirch Bros. Co. (Ltd.) (Saw
Mill)
MINDEN—Minden Lumber Co. (Saw Mill)
MONROE—Herring A. M. (Saw Mill)
*Monroe Shingle Co. (Shingle Mill)
*North Louisiana Shingle Co. (Shingle Mill)
MONTROSE—Star & Crescent Lumber Co.
(Yellow Pine)
MORGAN CITY—Brownell-Drews Lumber Co.
(Cypress Lumber & Shingles)
*Cotten Cros. Cypress Co. (Lumber & Shin-
gles)
MYRTISTOWN—Black Bayou Lumber Co.
(Yellow Pine)
NAPOLEONVILLE—Napoleon Cypress Co.
(Lumber & Shingles)
NATALBANY—Natalbany Lumber Co. (Ltd.)
(Yellow Pine)
NEW IBERIA—Iberia Cypress Co. (Cypress
Lumber & Saw Mill)
*Renoudet, P. L. Lumber Co. (Ltd.) (Saw
Mill)
NEW ORLEANS—Berwick Lumber Co.,
2333 Clio
*Carre, W. W. Co. (Yellow Pine Exporters),
331 Carondelet
*Central Mfg. & Lumber Co. (Ltd.), S Sal-
cedo & Perdido
*Fischer Lumber & Mfg. Co. (Cypress), 7932
St. Charles' av
*Forchheimer, Hugo (Exporter, Logs, etc.),
Hibernia Bank bldg
Gomila-Demack Lumber Co. (Hardwood Ex-
porters), Hibernia Building
*Knoop, Otto, 1217 Julia
*Lambou & Noel Lbr. & Mfg. Co., 4600 N
Peters
Lewis, H. F. & Co., Ltd. (Cypress Lumber
& Shingles), 316 Baronne
*Lhote Lbr Co., Carondelet Walk e N Dupre
*Moore, Lucas E. Stave Co. (White Oak
Cooperage Stock & Hardwood Lumber,
etc.)
*Opdenweyer Cypress Co. (Ltd.), S. Lopez,
cor Perdido
*Otis-Aleus Lumber Co. (Ltd.) (Cottonwood
& Hardwoods)
*Otis Mfg. Co. (Mahogany), Peters av &
River
*Poltevent & Favre Lbr. Co., L. L. & G.
bldg
*Rees-Scott Co. (Ltd.) (Exporters, Staves,
& Lumber), Denegre bldg
*Roberts & Co., 1419 Gravier
*Roblison, C. W. Lumber Co. (Yellow Pine,
Satin Walnut, etc.), 806 Gravier

*Ruddock Orleans Cypress Co. (Cypress
Lumber), Carrollton av & New Basin
*Salmen Brick & Lumber Co. (Yellow Pine
Cypress Lumber), 710 Common
*Schut & Klehn (Hardwood Exporters), Hen-
nen bldg
Sutherland, L. J. & Co. (Exporters Pitch
Pine, Timber, Staves), L. L. & G. Bldg
Thomas, G. H. A. Co., Poydras & S Broad
Union Lumber Co., Hibernia bldg
NEW ROADS—Mlx, Thos. (Lumber)
NOBLE—Noble Lumber Co. (Yellow Pine)
OAKDALE—Industrial Lumber Co. (Yellow
Pine)
*PATTERSON—Riggs Cypress Co. (Ltd.) (Lum-
ber & Planing Mill)
William F. B. Cypress Co.
PICKERING—Pickering, W. R. Lumber Co.
(Yellow Pine) (See Kansas City, Mo.)
PLAQUEMINE—Plaquemine Stave & Heading
Co.
*Schwing Lumber & Shingle Co. (Cypress)
*Wilbert, A. Sons Lumber & Shingle Co.
(Red Cypress Lumber & Shingles)
PLATTENVILLE—Baker-Wakefield Cypress
Co. (Ltd.) (Saw Mill & Lumber)
PLEASANT HILL—Pleasant Hill Lumber Co.,
Ltd.
RAMOS—Ramos Lumber & Mfg. Co. (Red Cy-
press Lumber, Lath & Shingles)
RAMSAY—Greenlaw Lbr. Co. (Yellow Pine)
RANDOLPH—Summit Lumber Co. (Yellow
Pine)
RAPIDES—Morrow, C. A. & Son (Saw Mill)
ROW LANDING—Hall-Coody Lumber Co.
(Lumber & Staves)
RUSTON—Adams, J. A. & Sons Co., Ltd.
(Staves)
*Ruston Mfg. Co. (Planing Mill)
*Short Leaf Lumber Co., Ltd.
*Vienna Lumber Co.
ST. JAMES—Rives, J. C. Cypress Co., Ltd.
ST. MARTINSVILLE—Burdin, J. J. & Bro.
(Lumber & Saw Mill)
SELMA—Grant Land & Lumber Co. (Ltd.)
(Yellow Pine)
SHREVEPORT—Allen Mfg. Co. (Yellow Pine
Lumber, Cypress Pickets, Mouldings, Red
Cypress, Cisterns, etc.)
*Austro-American Stave & Lumber Mfg. Co.
(Lumber & Staves, Mfrs. & Exporters)
*Black Lake Lumber Co.
*De Soto Land & Lumber Co.
*McCullough-Weaver Lumber Co. (Yellow
Pine)
*Pelican Shingle Co.
*Shreveport Lumber & Mfg. Co. (Hardwood)
Taylor Lumber Co. (Lumber & Boxes)
*Victoria Lumber Co. (Planing Mill, etc.)
*Werner, Louis Stave Co.
SPRINGFIELD—Brakenridge Lumber Co., Ltd.
(Saw Mill)
SPRINGHILL—Pine Woods Lumber Co. (Lum-
ber, Saw & Planing Mill)
STRADER—Owl Bayou Cypress Co. (Lumber &
Shingles)
SWARTZ—Swartz, E. G. Co. Ltd. (Yellow
Pine)
TANGIPOHOA—Day Lumber Co. (Saw Mill)
TANNEHILL—Hall & Legan Lumber Co., Ltd.
THAXTON—Henderson-Bennett Lumber Co.
TREMONT—Tremont Lumber Co. (Yellow
Pine)
URANIA—Urania Lumber Co. (Ltd.) (Long
Leaf Yellow Pine, R. R. Construction &
Car Materials)
VINTON—Industrial Lumber Co. (Yellow Pine)
VIVIAN—Thomason, W. J.
WASHINGTON—Gibbens, T. C. (Saw Mill)
*Thistlewaite Lumber Co. (Saw Mill)
WESTLAKE—Krause-Managan Lumber Co.
*Locke, Moore & Co.
WEST MONROE—Haynes Lumber Co. (Saw
Mill)
*West Monroe Mfg. Co. (Sashes, Doors, etc.)
WHITECASTLE—Adams, G. G. (Saw Mill)
*Whitecastle Lumber & Shingle Co. (Red
Cypress)
WINNFIELD—Dalton-Clark Stave Co.
*Sulphur Timber & Lumber Co., Ltd. (Plan-
ing Mill)
VINNSBORO—Steele & Johnson (Saw Mill)
VINONA—Pine Tree Lumber Co. (Yellow
Pine)
WOODWORTH—Rapides Lumber Co. (Yellow
Pine)
WYATT—Wyatt Lumber Co. (Yellow Pine)
YELLOW PINE—Globe Lumber Co. (Yellow
Pine)
AMMERMAN—Bentley, J. A. Lumber Co.
(Yellow Pine)
WOLLE—Sabine Lumber Co., Ltd. (L. L. Yel-
low Pine)

MAINE.

ALBANY—Brown, Jas. (Saw Mill)
ALEXANDER—Dwelle, Jno. W. (Shingles)
ALFRED—Jordan, B. C.
AMHERST—Keeneston, J. S. & Sons (Shin-
gles)
ANDOVER—Poor, O. B. & E. S.
ARCYLE—Smith, Sam'l
ARROWSIC—Crosby, C. C. (Saw Mill)
ASHLAND—Ashland Co.
AUBURN—Hutchins, H. Wesley Co. (Basswood
Veneer)
*Winter, Frank W.
AUGUSTA—Augusta Lumber Co. (Pine &
Spruce Lumber, Lath & Shingles)
*Lawrence, Newhall, Page & Co. (Lumber,
Box Shooks, Birch Flooring & Mill Work)
BANGOR—American Realty Co.
*Ayer, F. W.
*Cassidy, John & Son
*Easteru Mfg. Co.
*Engel, Wm.
*Lowell & Engel
*Morse & Co. (Inc.)
*Rice & Keiley
*Walker, James & Co.
*Webber, C. P.
BAR MILLS—McKenney, Chas. W.
BATH—Passmore, H. T. & Co. (Lumber &
Mill Work)
*Shaw, M. G. Lumber Co.
BINGHAM—Lander & Ayer.
BRIDGTON—Newcomb, Geo. W.
CALAIS—Eaton, H. F. & Sons
*Murchie, Jns. & Sons
CASCO—Hancock, S. O.
ELLSWORTH FALLS—Treworgy, Chas. J.
(Stave Headings, Shingles & Box Shooks)
*Whitcomb, Haynes & Co. (Spruce & Hem-
lock Lumber, Lath & Shingles)
FRANKLIN—Macomber Bros.
GARDINER—Gray, Joshua & Sons (Lumber,
Shingles & Lath)
*Oakland Mfg. Co. (Southern Lumber)
ISLAND FALLS—Mattawamkeag Lumber Co.
LEWISTON—Cloutier & Irish Lumber Co.
*Pingree, Sam'l R. B.
LIMESTONE—Noyes, A. L.
MACHIAS—Machias Mfg. Co. (Lumber, etc.)
*White, Everett I.
MARS HILL—York Bros.
NEW GLOUCESTER—Chandler Bros.
*Sturgis & Haskell
NEW VINEYARD—Hillman, G. R.
OLD TOWN—Jordau Lumber Co. (Box Shooks
& Lumber)
*Wing & Engle Co. (House Finish, Box
Shooks, etc.)
PORTLAND—Allen, Wm. A. (Wood Mantels,
Tiling of all kinds, Posts, Rails, Col-
umns, etc., House & Church Finish), 125
Somerset
*Berlin Mills Co. (Spruce Lumber, Clap-
boards, Shingles, Lath, Pickets, Dimension
Boards, etc.), 404 Commercial
Hamlin, J. H. & Son (Lumber & Box
Shooks)
*McDonald Mfg. Co., 54 York
*Richardson, Dana & Co. (So. Pine, Cypress
& Hardwood), 331 Commercial
*Riggs, W. W. & Co., 334 Commercial
*Rummary, Jerome & Co., 91 Kenebec
PRESQUE ISLE—Phair, Thos. H.
RUMFORD FALLS—Duntou Lumber Co. (Saw
Mill)
SHAWMUT—Shawmut Mfg. Co. (Lumber &
SHIRLEY MILLS—Shirley Lumber Co. (Pulp)
SOUTH BREWSTER—Sargent Lumber Co.
SOUTH GARDINER—Lawrence Bros. Co.
*South Gardner Lumber Co.
SOUTH JEFFERSON—Trask Bros.
STRONG—Warren, Hugh M.
VAN BUREN—Grund Isle Lumber Co.

MARYLAND.

BALTIMORE—Alcock, John L. & Co. (Ex-
porters of Hickory, Oak, Poplar & Wal-
nut), 1 S Gay
*American Lumber Co. (Lumber & Shin-
gles), 1407 Philpot
*Asendorf, J. H. & Co., Stewart bldg
Bar, R. P. & Co. (Hardwood), Keyser bldg
*Canton Lumber Co. (Kiln Dried N. C.
Pine, Ga. & Va. Sizes), Boston & Ches-
apeake
*Carter, Hughes & Co. (Hardwood Mfrs.),
500 Union Dock
*Charshee, Thos. A. & Bro. (Flex. Poles,
etc.), 713 Caroline
*Dill, Lewis & Co. (Pine, Cypress, Oak,
etc.), 500 W Falls av
*Edwards, R. W. Sons, 15 S Gay
*Gilbert, J. L. & Bro., c E Falls & East-
ern av
*Helse & Bruns Mill & Lumber Co., 600 S
Caroline

§Hörstmeier Lumber Co. (N. C. Pine), 305 E Falls av
 *Independent Lumber & Mill Co., Filend-ship av, nr York rd
 Jackson, E. E. Lumber Co. (Long Leaf Yellow Pine), Law bldg
 *James, N. W. & Co., Union Trust bldg
 Lafayette Mill & Lumber Co., 2100 W Lafayette av
 §Matthews, Thos. & Son (Timber, Yellow, White & Oregon Pine, Cypress, Oak & California Redwood), Canton av & Albermarle
 §Munroe & Co. (Poplar, Hardwoods & White Pine), Keyser bldg
 §Price, E. E. (Hardwood, Poplar & Logs, also Exporting Mfrs.), Continental bldg
 §Price & Heild (Hardwood), Knickerbocker bldg
 §Rowe, W. Lewis & Co., East Falls & Canton av
 §Ryland & Brooks Lumber Co. (N. C. & Ga. Pine & Hardwood) American bldg
 *Shryock, Thos. J. & Co. (Pine, Hardwood, etc.), Shryock's Wharf
 *Sloan, Geo. F. & Bro. (N. C. Pine & Floorlug Mouldings, etc.), 414 Light St. Wharf
 §Stran, Chas. T. Co., 740 Eastern av
 *Sunny Lumber Co., Union Trust bldg
 *Walker & Myers, 117 Market pl
 §Waters, Geo. E. Co., 922 Park av
 §Whitmer, Wm. & Sons, Inc., 9 E Lexington
 §Womble, Pembroke M., 2901 Elliott ton
 *Wood, Rob't E. Lumber Co. (Hardwood), Continental Trust bldg

BEL AIR—*De Ran Lumber Co.

BERWYN—*Bewley Bros. (Saw Mill)

BETHLEHEM—*Messick, A. J. (Saw Mill)

BRANDYWINE—*Roblouson, Aquila T. (Lumber & Ties)

CAMBRIDGE—*Cambridge Mfg. Co. (Lumber, Barrels, etc.)

*Wright, R. T. (Saw Mill)

CUMBERLAND—*Mertens' Sons, Fredk. (Lumber, Building Materials, etc.)

*Smouse, Thos. F. (White Oak, Car, Lumber)

*Union Lumber Mfg. Co. (Lumber)

SALISBURY—Adkins, E. S. & Co., Inc. (Lumber, Flooring, Box Shooks, etc.)

Day, Wm. M. (Saw Mill)

*Downing, Wm. J. Lumber Co.

*Jackson Bros. Co.

*Miller, W. B. & Co. (Lumber & Saw)

*Ferry, Thos. & Bro. (Box Lumber) Mill

*Tighman, Wm. B. Co. (Shingles, etc.)

Williams, C. E. & Co. (Saw Mill)

*Williams, L. E. & Co.

MASSACHUSETTS.

BOSTON—§Arend, Frank A. & Co. (All Kinds), 390 Albany

*Atlantic Lumber Co. (Hardwoods, White-wood, N. C. Pine), 70 Kilby

§Barker, Wm. G., 10 Central

§Barker & Co. (Inc.) (Pine, Spruce, Cy-press, Whitewood), 53 State

§Beurse, O. & Son Co. (Mahogany & Hard-wood), 33 Broad

§Bleford, H. M. Co. (Poplar, Hardwood & N. C. Pine), 70 Kilby

*Black & Shepard Co., 350 Albany

§Blanchard Lumber Co., 126 State

*Booth, J. R. (Lumber, House Finish & Packing Boxes), 88 Broad

§Boston Lumber Co. (Pine & Hardwood), 79

§Boston Oak Lumber Co., 27 Kilby

§BOSTON-OREGON MAST CO. (Pa-elfe Coast Lumber Products, Decking Lumber, Red Cedar, Shingles, Mast, Spars & Piling), 13 Coleridge, E. B. (See adv. Index, end of book)

§Buzzell, E. H., 71 Kilby

§Chester, W. R. & Co., 17 Doane

§Clapp, Alfred, 92 State

*Clark & Smith (Mahogany & Veneers), 231 Medford, Charleston

§Connecticut Valley Lumber Co. (Spruce, Pine, Hemlock & Hardwoods), 89 State

§Curtis, Wm. Sons Co., 30 Eustis

§Curtis & Pope Lumber Co., 774 Albany

Cypress Lumber Co. (Band Sawed Gulf

Cypress, Long Leaf Yellow Pine, Poplar

& Cottonwood, etc.), 88 Broad

§Davenport, Peters Co., 70 Kilby

§Furber, Stockford & Co., 11 Doane

§Godfrey, L. N. Co. (Pine, Poplar & Ma-ple & Oak Flooring), 19 Exchange pl

§Goldsmith, F. L. (Mahogany & Cabinet

Wood), 19 Chardon

§Hall Lumber Co. (Northern, Eastern & Southern Lumber), 33 Broad

§Hammond, Edw. J. Co. (Hard & Soft

Wood), 79 Milk

§Haskins, Wm. & Son, 110 State

*Huckins, P. S. & Co. (Georgia Yellow

Pine), 45 Kilby

§Hurd, Jos. A. Lumber Co. (Pine, Hard

wood Lumber, Cedar Shingles, Dock

Timber, etc.), 53 State

§James, E. B. Lumber Co., 16 Centre

§James & Abbott Co., 425 Medford, Chsn.

§Johnson, L. S. & Co. (Mahogany & Cabin-wood), 414 Albany

§Jones Hardwood Co. (Hardwoods, Cypress

& Yellow Pine Flooring), 33 Broad

§Lawrence & Wiggin (Ind. & Southern

Hardwood & Imp. of Mexican Mahog- any), 281 Medford, Chsn.

§Litchfield, Wm. E. (Hardwood), 70 Kilby

§McQuisten, Geo. Co., 27 Kilby

*Macanley, Geo. W. (Builders' Finish), 387

§Noyes, Walter D., 33 Broad Albany

§Palmer, Parker & Co. (Mahogany, Hard

wood Lumber & Veneers), 103 Medford,

Chsn

§Parker & Page Co. (N. C. Pine, Cypress & Hardwood), 32 Lancaster

§Pratt & Co., 50 Congress

*Richardson, A. H., Jr. (Spruce, Hemlock & Pine), 170 Summe

§Shepard & Morse Lumber Co. (Cypress & Hardwood), 70 Kilby

*Skillings, Whitneys & Barnes Lumber Co., 45 Kilby

*STEARNS, A. T. LUMBER CO.

(Cypress, Yellow Pine, Ash & Other Wood

Doors, Sash, Blinds, Building Trim, Cab- inet Work, Flooring, Shingles, Tanks,

etc.), Neponset. (See adv. Index, end of book)

§Stebbins, H. B. Lumber Co., 70 Kilby

§Stetson, Cutler & Co., 70 Kilby

§Stone Lumber Co., 4 Liberty sq

Weston, W. M. & Co. (Hardwood), 120 Milk

§Wiggin, H. D. (Hardwood), 89 State

§Wood, Jas. A., 54 Kilby

§Wood-Barker Co. (Poplar, Cypress & South-ern Pine), 53 State

CAMBRIDGE—Wood, Wm. H. & Co., 13 B'way

§Woods, W. H. & Co. (Hardwood), 223

Bridge, E. C.

CHELSEA—*Emery, Geo. D. (Imported & Do-

mestic Cabinet Wood & Veneers)

FALL RIVER—*Blossom, Abram S. (Hard-

wood, Pine, etc.), 29 Jesse

*Erickson, G. & Bro. (Saw & Planing Mill), Blossom's av

*Prosser, Wm. & Sons, 943 Pleasant

FITCHBURG—*Eaton, Perley R. (Pine, Spruce

& Northern Hardwoods)

§Garno, W. A. Co. (Pine & Hardwood Lum-

ber, Box Shooks, Builders' Finish, etc.)

§Priest, C. A. Lumber Co. (Laths, Clap-

boards, Shingles, Lumber, etc.)

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(Spruce, Lumber, Lath & Shingles)

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& Mfr. Boxes)

*Pingree, D. W. & Co. (Lumber & Mfr. Boxes)

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ings & Boxes)

Burnham & Davis (Shingles, Clapboards,

etc.), 154 Western av

*Cady, Geo. L. & Sons (Lumber, Packing

Boxes, Box Shooks, etc.)

*Cheney, Frank P. (Boxes, Box Shooks,

Cloth Boards & Dealer in all kinds of

Lumber

*Davis & Sargent Lumber Co. (Lumber,

Packing Boxes, Planing Mill, etc.)

*Pratt, Amasa Co. (Veneered Doors, etc.), 7th Dutton

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Mill)

MILLBURY—Rice, A. W. & A. J. (Saw Mill)

MONSON—Sculer & Co.

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NORTH READING—*Upton, Henry A. (Saw

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§Currier, R. B. (Southern & Michigan Pine

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lar Shingles)

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& Pacific Coast Products)

*Fenderson, John & Co. (Inc.)

§Morse, Fred. S. Lumber Co.

§Rice & Lockwood Lumber Co. (Pine, Hard

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*Springfield Lumber Co. (Planing Mill)

§United Lumber Co. (Eastern White Pine

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Cooperage)

Fessenden, B. & A. D. (Saw Mill, Cooper-

age, Lumber)

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Mill)

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§Hackwell, E. A. & Co. (Southern Pine,

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 *Woodworth, F. T. & Co., S. Water
 *Young, W. D. & Co. (Hardwood Lumber)
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 *Clifford, James, 112 Larned W.
 *Danaher & Melendy Co., Hammond bldg
 *Dennis & Smith Lumber Co. (Poplar, Oak, Chestnut, Cypress & Hardwoods), 4th & Holden av
 *Detroit Cedar & Lumber Co., (Ties, Poles Lumber), Chamber of Com
 *Detroit Lumber Co. (Lumber & Saw Mill), 1311 Gratiot av
 *Dwight Lumber Co. (Maple & Oak Floor lug & Cigar Box Lumber, etc.), Ronge River & M. C. R. R.
 *Grace Harbor Lumber Co., (Hardwood White Pine, Norway, Hemlock, etc.), 1389 River
 *Harding, H. W. Lumber Co. (Pine & Hardwoods), 800 Scotten av
 Hornung, J. T., Chamber of Commerce
 *Huntton & Weeks bldg
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 *Kotcher, C. W., 649 Gratiot av
 *Leech, E. W. (Hardwood), 15th & Warren
 *Leech, Roche & Co., M. C. R. R. & 24th
 *McArthur Bros. Co., Brady blk
 *McClure Lumber Co. (Hardwood, etc.), 520 Franklin
 *Manistique Lumbering Co., Union Trust bldg
 *Morley, Geo. & Co., 520 Atwater, E.
 *Moyer, W. & Co., Majestic bldg
 *National Mfg. Co. (Slack Cooperage Stock for Flour, Cement, Lime & Sugar Barrels), Penobscott bldg
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 *Ouellette, Thos., Lumber Co. (Hardwood) Home Bank bldg
 *Restlek, C. W. Lumber Co. (Lumber & Planing Mill), 992 Vinewood av
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 *Thelsen, Michael J. (Saw Mill & Hardwood Lumber), 994 Scotten av
 Weber, J. F. & Co. (Lumber & Planing Mill), 304 Gratiot av
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 *Follmer, C. C. & Co. (Lumber & Shingles)
 *Hughart, W. O., Jr. (Hardwood), Michigan Trust Co. bldg
 *Hughart & Kendall (W. Hardwoods), Michigan Trust Co. bldg
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 Mercer & Ferdon Lumber Co.
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 *Michigan Maple Co. (Hardwoods) wood
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*Davis Lumber Co.
*Derry, Stephen F. (Hardwood, Car & Trade)
*Eastman, S. L. Flooring Co. a Specialty)

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*Fordney, J. W., Merrill hlk (Lumber & Logs)
*Furstenberg Bros. (Planing Mill, Lumber)
*Galloway-Pease Co.
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*Germaln, Edw. (Planing Mill, Lumber)
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*Rupp, J. J. (Pine Logs & Lumber) Bearing-
*Saginaw Lumber & Salt Co. er bldg.
*Saginaw & Manistee Lumber Co.
*Slade, Lewis C (W. Lumber & Shingles)
*White, A. C.
Wylie, J. T. & Co. (Slack Cooperage Stock for Flour, Sugar, Cement, etc.)
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FANNER—Williamson & Good (Hardwood)
TEKONSHA—Randall, A. H. Saw Mill Co. (Saw Mill)
TEMPLE—*Temple Mfg. Co. (Tie & Staves)
THOMPSON—*North Shore Lumber Co.
*Thompson Lumber Co.
TORCH LAKE—*Cameron Lumber Co. (Lumber & Shingles)
TOWER—Fruan & Finan (Shingles & Cedar)
TRAVERSE CITY—*Beltner, Wm. & Son
*Greilick, J. E. Co. (Lumber, Planing & Saw Mill)
Hull, Longnecker Co. (Lumber)
*Kelley Lumber & Shingle Co. (Pine, Hardwoods, Cedar Shingles, Posts, etc.)
*Ott, John F. Lumber Co., E. End Bay
Smith & Hull Co. (Timber, Logs, Bark & Wood)
*Williams, W. E. Co.
TURNER—Eymen, Myron H. (Saw Mill)
TWINING—*McCready, John (Saw Mill & Lumber)
UNION CITY—Union City Lumber Co. (Lumber)
VAN—*Van Every Bros. (Lumber, Ties, Posts)
VANDERBILT—Olds & Hixson (Stave Mfrs.)
Yull Bros. (Loggers)
VANS HARBOR—*Vans Harbor Land & Lumber Co.)
VERMONTVILLE—Fuller Bros. (Saw Mill)
VILCAN—*O. C. Lumber Co.
WALLOON LAKE—Walloon Lake Lumber Co.
WEIDMAN—Weidman, John S. (Saw Mill)
WATERS—Stephens Lumber Co.
WELLS—*Ford River Lumber Co. (Shingles, Lath, Poles, Posts, Ties, etc.)
*Stephenson, The I. Co. (Maple Flooring)
WHITEHALL—*Covell, Lyman T. (Lumber, Lath & Shingles)
*Nufer Cedar Co. (Lumber, Shingles & Tin Plate Boxes)
WOLVERINE—Guelph Patent Cask Co. (Veneer & Hopp Mfrs.)

MINNESOTA.

ADA—*Wild Rice Lumber Co.
AITKEN—*Gyde, E. A. (Staves & Hoops)
*Hodgeson & McDonald (Saw Mill)
Knox, Geo. W. (Lumber)
ALBERT LEA—Minnesota Lumber Co.
ARLINGTON—*Schmoll & Hilleman
CLOQUET—*Cloquet Lumber Co. (White Pine Lumber & Saw Mill)
Cloquet Tie & Post Co.
*Johnson-Wentworth Co. (White Pine Lumber, Lath & Shingles, Saw Mill)
*Northern Lumber Co. (White Pine Lumber)
DULUTH—*Duluth Log Co. (Wholesale Poles, Posts, etc.)
Duluth Lumber Co., 364 Garfield av
*Duncan, Brewer & Co. (Lumber), Lyceum bldg
*Holmbach Lumber Co., 20 E. Railroad
*Leasure Lumber Co., Providence bldg
*Martin, L. R. Lumber Co., 18 N 5th av (Cedar Posts, Poles, Ties, Lumber)
*Martin Bros. (Ties & Poles)

*Norton Lumber Co., Manhattan bldg
*Red Cliff Lumber Co. (Lumber, Lath & Shingle)
*Scott-Graff Lumber Co. (Lumber, Lath, Shingles, Pickets, Hardwood, Red & White Oak, Birch, Ash, etc.), 2402 W Mich.
*Swallow & Hopkins, Exchange bldg
*Virginia Lumber Co.
*Virginia & Rainy Lake Lumber Co.
*Woodruff Lumber Co.
FRAZEE—Nichols & Chisholm Lumber Co.
GRAND RAPIDS—*Knox, L. F. & Co.
HIBBING—Swan River Logging Co.
LITTLE FALLS—*Pine Tree Lumber Co. (White Pine & White Cedar Posts, Shingles, etc.)
MAYNARD—*Maynard Lumber Co.
MINNEAPOLIS—*Backus-Brooks Co. (White Pine), Andrus bldg
*Bailey, Wm. C. (Hardwood), 600 Central av
*Bovey-De Laittre Lumber Co., 3300 Washington av, N
*Bovey-Shute Lumber Co., Andrus bldg
*Bowman, S. H. Lumber Co., Lumber Exchange
Brooks-Scanlon Lumber Co., Security Bk bldg
*Burkholder Lumber Co., Lumber Exch
*Buswell Lumber & Mfg. Co., Lumber Exchange
*Carpenter-Lamb Co. (White Pine), Security Bk bldg
Carpenter, W. I. Lumber Co. (Red Cedar Shingles, Siding & Polish Spruce & Fir), Lumber Exchange
*Coolidge, Marshall H. Co. (Cedar Products), Guaranty bldg
*Curran, W. H. & Co., Lumber Exchange
Curtis & Yale Co. (Hardwood, Flooring, Basswood, Ceiling & Siding, Pine Dimensions, Shingles, etc.), Security Bk bldg
*Dollif, L. P. & Co., Lumber Exchange
*Fullerton Lumber Co., Lumber Exchange
*Gull River Lumber Co., Lumber Exchange
*Itasca Lumber Co., 2800 Wash'n, N.
International Lumber Co., Andrus bldg
*Johnson, W. W. Lumber Co., Lumber Exchange
*Lewis, F. H. (Fir Timber & Idaho Cedar Poles), Lumber Exch
McClulloch, John Lumber Co., Andrus bldg
McMullin Lumber Co. (Wholesale Fir & Cedar Lumber), Lumber Exchange
*Mercer-De Laittre Lumber Co., Lumber Exch
*Minneapolis Cedar & Lumber Co. (Pine, Hemlock & Fir Lumber, Red & White Cedar Shingles, Cedar Posts & Poles), Lumber Exch
*Minneapolis Lumber Co., Lumber Exchange
*Mississippi River Lumber Co., 3201 N 2d
*Osborne & Clark (Hardwood), Lumber Exch
*Park Rapids Lumber Co., Lumber Exchange
*Partridge, T. M. Lumber Co., Lumber Ex.
*Pendleton & Gilkey, Security Bk bldg
*Red River Lumber Co., 801 Hennepin av
*Shevlin-Carpenter Co. (White Pine Lumber, Lath & Shingles), 4th av North & the River)
*Smith, C. A. Lumber Co. (White Norway Pine Lumber & Box Shooks), 44th & Lyndale av
Smith, C. A. Timber Co., Andrus bldg
*Waite, H. B. Lumber Co. (Pine & Red Cedar Shingles)
ST. PAUL—*Edwards, W. C. Lumber Co., Manhattan bldg
Gribben Lumber Co., 194 E 7th
*Jefferson & Kasson (White Pine, Lumber & Cedar Shingles), Nat'l G. A. Bk. bldg
*Martin, John Lumber Co., 217 Como av
*Nolan, Francis A. (White Pine & Hardwood; also Lath & Shingles), New York Life bldg
*St. Croix River Lumber Co. (Planing Mill), 185 E Fairfield av
*Weyerhaeuser & Co. (White Pine), Nat'l G. A. Bk. bldg
STILLWATER—*St. Croix Lumber Co. (Saw Mill & Lumber)
*Tozer, David Co. (White Pine)
THIEF RIVER FALLS—*Thief River Falls Lumber Co.
VIRGINIA—*Bailey, W. T. Lumber Co. (Saw Mill)
WILLOW RIVER—*Atwood Lumber Co. (White Pine)
WINONA—*Baicom, H. C. Lumber Co. (Shingles)
*Empire Lumber Co. (White Pine, Lath & Shingles)

MISSISSIPPI.

BENTONIA—*Link, Newcomb Mill & Lumber Co. (Hardwood)
DEWEY—*Greene County Lumber Co.
FLORA—*Buxton Lumber Co.
ROGIER CHITTO—*Bristol, B. E. Saw Mill Co. (L. Yellow Pine)
BOND—*North, J. E. Lumber Co. (L. L. Yellow Pine)

BROOKHAVEN—*East Union Lumber & Mfg. Co. (Yellow Pine)
 *Moreton & Helms Lumber Co. (Yellow Pine)
 *Pearl River Lumber Co. (Yellow Pine)
BROOKLYN—*Griffin, W. C. Land Co. (Saw Mill)
CHATAWA—*Stevens, A. W. Lumber Co. (Yellow Pine)
CHICORA—*Robinson Land & Lumber Co. (Yellow Pine, Timber & Rift Flooring)
COLLINS—*Okatoma Saw Mill Co. (L. L. Yellow Pine, Bridge Timbers, etc.)
 *Wood, W. C. Lumber Co. (Yellow Pine)
CORINTH—*Pocahontas Lumber Co.
 *Seaman Stave Co.
 *Small, W. E. (Spokes)
ELLISVILLE—*Anchor Saw Mill Co.
 *Ellisville Lumber Co. (L. L. Yellow Pine, etc.)
EPPS—*Wildier, J. F. (Yellow Pine)
FERNWOOD—*Fernwood Lumber Co. (L. L. Yellow Pine)
GLADE—Glade Lumber Co. (Saw Mill)
GLOSTER—Robinson, W. L. Lumber Co. (Saw Mill)
GLOVER—*Knight, W. C. (Cypress, etc.)
GREENVILLE—Alexander Lumber Co.
GULFPORT—Hoimes & Herrick Lumber Co. (Wholesale)
 *Naylor, S. E. (Pitch Pine Lumber & Timber, Construction Materials & Hardwood Box Shooks)
HATTIESBURG—*Brookhaven Lumber & Mfg. Co. (Yellow Pine)
 *Pole Stock Lumber Co.
 *Tatum Lumber Co. (Saw Mill)
 *Yellow Pine Mfg. Co.
HAZLEHURST—*Hazlehurst Lumber Co. (Yellow Pine)
HOLLYWOOD—*Hunter, C. W. & Co. (Saw Mill, Lumber, etc.)
 *Leavitt Lumber Co. (Hardwoods, Cypress)
ITTABENA—*Rucker Bros. (Saw Mill & Lumber)
JACKSON—*Burleighs, R. G. Sons, Ltd. (Staves)
 *Empire Lumber & Mfg. Co. (Yellow Pine)
 *Enochs Bros. (Yellow Pine)
KOLA—*Kola Lumber Co. (Yellow Pine)
LAKE—*Merrill & Co. (Saw Mill)
LAUREL—*Eastman, Gardiner & Co. (L. L. Yellow Pine)
 *Lindsay, John
LELAND—Darnell-Love Lumber Co.
LOGTOWN—*Weston, H. Lumber Co. (L. L. Yellow Pine)
LUCEDALE—*Bostick, J. H. & Co.
 *K. C. Lumber Co. (Yellow Pine)
LUMBERTON—*Camp & Hinton Co. (Yellow Pine)
 *Hinton Bro. Lumber Co. (L. L. Yellow Pine)
 *Pearson, J. C. Lumber Co. (Saw Mill)
LYMAN—Ingram-Day Lumber Co. (Saw Mill)
McCOMB—*White, J. J. Lumber Co. (L. L. Yellow Pine, Kiln Dried, Dressed Flooring)
MEEHAN JUNCTION—*Cotton State Lumber Co.
MERIDAN—*Grant, M. R. (L. L. Yellow Pine)
 *Gray, C. L. Lumber Co.
MERRILL—Dressler-Hammond Co. (Saw Mill)
MISH—*Pine Lumber Co. (Yellow Pine)
MINOT—*Hicks & Sons (Shingles, Lumber, etc.)
MOORHEAD—*Moorhead Mfg. Co. (Saw Mill)
MOSS POINT—*Dantzler, L. N. Lumber Co. (Yellow Pine & Rift Flooring)
 *Denny, W. & Co. (L. L. Yellow Pine)
 *McInnis, Nott & Co. (Saw Mill)
 *McIntosh Lumber Co.
MOUNT OLIVE—Blount Lumber Co. (Saw Mill)
 *Cooley Bros. Lumber Co. (Saw Mill)
NATCHEZ—*Learned, R. F. (Cypress)
NORFIELD—*Butterfield Lumber Co. (Yellow Pine)
ORA—*Easterling Lumber Co. (Yellow Pine)
ORVISBURG—*Champion Lumber Co. (Yellow Pine, Mill Work & Timbers up to 60 ft. long)
PICKAYUNE—*Alliance Lumber Mfg. Co.
 *Rosa Lumber Co. (Saw Mill)
PINEBUR—*Walworth & Neville Mfg. Co. (Yellow Pine)
PURVIS—*Hand, James (Saw Mill)
QUITMAN—*Mississippi Lumber Co. (Yellow Pine)
SANFORD—*Ship Island Lumber Co. (Yellow Pine)
SARDIS—*Carrier Lumber & Mfg. Co. (Hardwood Lumber & Bent Wood Work, Oak Flooring & Rotary Cut Veneers)
SCRANTON—*Farnsworth Lumber Co. (Yellow Pine)
SEMINARY—*Connor Lumber Co. (L. L. Yellow Pine)
TEN MILE—*Ten Mile Lumber Co. (Yellow Pine)
VICKSBURG—*Houston Bros. (Hardwoods, Yellow Pine & Cypress)
WAYNESBORO—*West-King Lumber Co. (Saw Mill)
 *Wetherbee-Huggins Co. (Yellow Pine)
YAZOO CITY—*Hicks Bros. (Saw Mill)

MISSOURI.

ANNAPOLIS—Benson, J. S.
BETHANY—*Miner & Frees
BLODGETT—*Cary Saw Mill Co.
BUTLER—Logan-Moore Lumber Co.
CAMPBELL—*Campbell Hoop & Lumber Co.
 *Garetson-Hilton Lumber Co.
CANTON—Canton Saw Mill Co. (Saw Mill)
OAPE GIRARDEAU—*Indiana Lumber Co. (Hardwood)
 *Leming, M. E.
 *Pott, F. W. (Staves, etc.)
CARUTHERSVILLE—Reynolds & Crews
 *Riverside Lumber Co.
COFFEYBURG—*Crossan, Miner & Frees
DES ARC—*Graves, E. W.
DEXTER—Disher Hoop & Lumber Co.
DONIPHAN—Harmon, C. P. (Saw Mill)
EAST PRAIRIE—*Montgomery, Stit & Pool (Saw Mill)
FREDERICKTOWN—*Fredericktown Lumber Co. (Yellow Pine & Oak Lumber & Mfrs.' Wagon Hubs)
GIDEON—*Gideon Anderson Lumber & Mercantile Co. (Hardwood)
GLASGOW—*Rall Bros. (Hardwoods, Native)
GRANDIN—*Missouri Lumber & Mining Co. (Missouri Yellow Pine)
GREENVILLE—*Halliday-Klotz Land & Lumber Co. (Yellow Pine)
HARRIS—Durman, L. C. (Saw Mill)
HARVIELL—*Foster, S. W. (Staves & Headings)
 *Mangold Stave & Lumber Co. (Lumber, Beer & Wine Casks, Staves & Headings)
KANSAS CITY—*American Sash & Door Co., 16th & Bellefontaine
 *Anson Shingle & Lumber Co., 50 K. P. bldg
 *Badger Lumber Co.
 *Bowman-Hicks Lumber Co. (Yellow Pine)
 *Buchanan, Wm. (Yellow Pine)
 *Central Coal & Coke Co. (Yellow Pine)
 *Chapman & Dewey Lumber Co.
 *Chatten, S. H.
 *Connolly Hardwood Lumber Co. (Oak, Ash, Cypress, etc.)
 *Dickason Goodman Lumber Co.
 *Foster Lumber Co. (Yellow Pine), Dwight hldg
 *Gloyd Lumber Co. (Yellow Pine, etc.)
 *Hope, Geo. D. Lumber Co. (Yellow Pine)
 *Leidigh & Havens Lumber Co. (Yellow Pine)
 *Louisiana & Texas Lumber Co. (Yellow Pine)
 *Long-Bell Lumber Co. (Yellow Pine)
 *Merrill & Co. (Hardwood)
 *Missouri Lumber & Land Ex. Co. (Missouri Soft Pine)
 *Missouri Tie & Timber Co.
 *Norton Lumber Co. (Yellow Pine)
 *Penrod Walnut & Veneer Co. (Black Walnut)
 *Pickering, W. R. Lumber Co. (Yellow Pine), Mills, Pickering, La.
 *Sabine Lumber Co. (Yellow Pine)
 *Saline River Lumber Co.
 *Stevenson-West Lumber Co. (Yellow Pine)
 *Texas Lumber Co.
 *Vernon Lumber Co.
KENNETT—*Kennett Cypress & Hardwood Lumber Co.
LEEPER—Geo., Clarkson (Saw Mill)
LOUISIANA—La Crosse Lumber Co.
MARQUAND—*Whitener, J. Q. D. Land & Lumber Co. (Saw Mill)
MOREHOUSE—*Himmelberger-Harrison Lumber Co. (Red Gum, White & Red Oak, Ash, Elm & Cypress, Rough, Dressed & Worked to Order)
NEELEYSVILLE—*Star Ranch & Land Co. (Hardwood)
NEW MADRID—*Loud, E. A. (Staves & Lumber)
 *Mann Grandflo Land & Lumber Co. (Saw Mill)
PACIFIC—Koppitz-Smith Mill Co.
POPLAR BLUFF—*Ferguson & Wheeler
 *Hargrove & Ruth Lumber Co.
 *Ruth, H. I.
PORTAGEVILLE—Haines, E. C. & Son (Lumber Saw & Planing Mill)
POTOSI—Smith, Chas. D. (Saw Mill)
ST. JOSEPH—*Dougherty & Moss Lumber Co.
 *Nold, C. H. Lumber Co.
 *Ray, E. W. & Son
 *South Mo. Pine Lumber Co.
ST. LOUIS—*American Hardwood Lumber Co. (Oak, Poplar, Ash, etc.), N Market n Levee
 *Bagnell Timber Co. (R. R. Ties), 706 Chestnut
 *Banner Lumber Co., S Newstead & Duncan
 *Bennett, Alf Lumber Co. (Yellow Pine), Wright bldg
 *Berthold & Jennings (Long Leaf Yellow Pine, Oak & Cypress Lumber, Bridge Timbers, Piling & Telegraph Poles), 701 Olive
 *Boynton Land & Lumber Co., 319 N 4th
 *Buchanan, Wm. (Yellow Pine), 706 Chestnut

*Chicago Mill & Lumber Co. (Yellow Pine, Oak & Cypress, Hemlock & Gum Lumber & Cedar, White Oak & Black Locust Poles, Posts & Pilings, Red Cedar, Cypress & White Pine Shingles, White Pine, Cypress Yellow Pine Lath), 122 N 7th
 *Chivvis, W. R. (Hardwood), Lesperance & Iron Mtn Ry
 *Columbia Lumber Co. (Yellow Pine), Equitable bldg
 *Dixie Lumber Co. (Yellow Pine), Wright bldg
 *Druhe Hardwood Lumber Co. (Hard Wood), c Main & Clinton
 *Ferguson-McDaris Lumber Co. (Yellow Pine), 721 Olive
 *Ferguson, W. T. Lumber Co. (Yellow Pine), 205 N 8th
 *Freeman-Smith Lumber Co. (Yellow Pine), 7th c Pine
 *Frost-Trigg Lumber Co. (Yellow Pine, either Straight or Mixed Cars), Equitable bldg
 *Garrett, T. H. Lumber Co. (Yellow Pine, Saw & Planing Mills), Chemical bldg
 *Greyson-McLeod Lumber Co. (Yellow Pine), 205 N 8th
 *Griffen, Geo. M. Lumber Co. (Oak & Cypress Piling, Telephone Poles, Railroad Materials, etc.), Oriel bldg
 *Gruner, Philip & Bro., Lumber Co., Cass av c 9th
 *Hafner Mfg. Co. (Cypress, Hardwoods), Yellow Pine, ft Dock
 *Harris, Loyd G. Mfg. Co. (Hardwood), Levee nr Barton
 *Hearne Timber Co., Mermod & Jaccard bldg
 *Holmes, J. A. Lumber Co. (Michigan Lumber, White & Yellow Pine Flooring, Siding, Shingles, Lath, etc.; Poplar, Cherry, Ash, Walnut & Mahogany, Car & Bridge Timber Specialties), 1104 Spruce
 *Huie-Hodge Lumber Co., 122 N 7th
 *Kimball Lumber Mfg. Co. (Cypress & Oak), Equitable bldg
 *Liebke, C. F. Hardwood Mtls & Lumber Co., 2d & Buchanan
 *Little Lumber Co. (Southern Hardwoods, Red Gum a Specialty)
 *Lothman Cypress Co. (Louisiana Cypress), foot of Angelica
 *Luehrmann, Chas. F. Hardwood Lumber Co. (Oak, Ash, Poplar, Cypress, Cottonwood, Yellow Pine, Walnut, Maple, Hickory, Cherry, Sycamore, Gum & Wagon Stock), 148 Carroll
 *Malvern Lumber Co. (Yellow Pine), Chemical bldg
 *Massengale Lumber Co. (Hardwood), 2500 N Main
 *Mechanics' Planing Mill Co. (Cypress), 3742 N B'way
 *Miles, Geo. W. Timber & Lumber Co. (Yellow Pine), Fullerton bldg
 *Monarch Lumber Co. (Yellow Pine), Wright bldg
 *O'Neil Lumber Co., B'way c Gratiot
 *Ozan Lumber Co., Equitable bldg
 *Ozark Cooperage Lumber Co., Liggett bldg
 *Plummer Lumber Co. (Hardwoods, Cypress Shingles), 3130 Hall
 *Richardson, J. P. & W. H. (Lumber Commission), 122 N 7th
 *Saginaw Lumber Co., 205 N 8th
 *Smith, F. H. Co. (Oak, Ash, Poplar, etc.), Commercial bldg
 *Steele & Hibbard (Hardwood), 3129 N B'way
 *Summit Lumber Co. (Yellow Pine), Wright bldg
 *Thomas & Proetz Lumber Co., 3400 Hall
 *Werner, Louis Saw Mill Co. (Oak, Ash, Poplar, Gum, Short & L. L. Yellow Pine, Cypress & Cottonwood), 122 N 7th
 *Western Tie & Lumber Co., 313 N 9th
 *Wilson-Reheis-Rolfes Lumber Co. (Yellow Pine), Main & Bremen av
SMITHVILLE—*Major, H. R. & Co.
SPICKARD—Kincade, Cal.
SPRINGFIELD—*Dunckel Box & Lumber Co.
 *Hobart-Lee Tie Co. (R. R. Timbers)
 *Hudson Lumber Co. (Saw Mill)
TYLER—*Tyler Land & Timber Co.
UNION—Vitt, A. A. & Co. (Saw Mill)
WAYNESVILLE—Kerr, W. C. & Sons (Saw Mills)
WINONA—*Ozark Land & Lumber Co. (Mo. Soft Pine)

MONTANA.

BONNER—*Big Blackfoot Milling Co. (Car & Bridge Timbers, etc.)

NEBRASKA.

HASTINGS—*Hansen Lumber Co.
 *Oliver Lumber Co.
KEARNEY—*Gilecrest, F. H. Lumber Co.

LINCOLN—\$Dunn & Kincaide Lumber Co.
 *Foster, S. A. Lumber Co.
 OMAHA—\$Baker, J. L.
 \$Bradford-Kennedy Co., 309 S 13th
 \$Bullard, Hoagland & Benedict (Hardwood)
 \$Cady, H. F. Lumber Co., Douglas c 6th
 \$Chicago Lumber Co. (Mo. Soft Pine), 814 S 14th
 \$Dietz, C. N. Lumber Co. (Hardwood), 1214 Farnam
 \$Dodds Lumber Co., 407 Brown blk
 \$Guion & Ledwich, 1204 N 18th
 \$Hampton Lumber Co. (Hardwood), 1242 S
 \$Hoagland, G. A., 9th c Douglas 16th
 \$McShane Lumber Co., First National Bank bldg
 Omaha Hardwood Lumber Co. (Hardwood), California & 13th
 \$Walrath & Sherwood Lumber Co., Mer. National Bank bldg
 \$Wentworth, Lew. 618 Paxton blk
 SOUTH OMAHA—\$Bradford, Louis Lumber Co.
 \$Watkins, J. B. & Co.

NEW HAMPSHIRE.

ALEXANDRIA—Patten, S. G. (Saw Mill)
 ALSTEAD—Clark, F. W. (Saw Mill)
 AMHERST—Fuller, Lemuel (Saw Mill)
 Hartshorn, Frank (Saw Mill)
 ANTRIM—Holt, Chas. F. (Saw Mill)
 Poor, M. D. (Saw Mill)
 ASHUELOT—\$Dickinson's, Ansel Sons (Saw Mill)
 AUBURN—Pingree, A. W. (Saw Mill)
 BARNSTEAD—Drake Bros. (Saw Mill)
 BATH—Ammanosuc Lumber Co. (Saw Mill)
 BEDFORD—Holbrook, F. G. (Saw Mill)
 BELMONT—Phelps, George A. (Saw Mill)
 Weeks, Jas. H. (Saw Mill)
 BEMIS—\$Morey, Chas. H.
 BERLIN—Fernald-Woodward Co.
 BRADFORD—\$Peaslee, D. G. (Saw & Shingle Mill)
 BRENTWOOD—Flanders, Chas. (Shingles)
 CHESTER—Dale Bros. (Shingle Mills)
 Goldsmith, N. W. (Shingles)
 Morse, Augustus P. (Saw Mill)
 CONWAY—\$Kennett, A. C.
 \$Quint, L. C. & H. A.
 CRYSTAL—\$Jackson, And'w
 DOVER—\$Faxon & Kimball
 \$Rollins & Foss
 Seavey, J. F. Lumber Co. (Dealers)
 DUBLIN—Knight, C. F. & Son (Saw Mill & Shingles)
 DUNBARTON—Page, W. F. (Saw Mill)
 EAST ROCHESTER—\$Tibbets & Hayes
 EAST SULLIVAN—Harris, W. H. (Saw Mill)
 EXETER—Dow, Albert N.
 FARMINGTON—\$Jenness Bros.
 GILSUM—\$Dart, Samuel W.
 GORHAM—\$Libby, E. & Sons.
 \$Mainstream Lumber Co.
 GRANTHAM—Burpee, M. P. (Saw Mill)
 Reed & Buswell (Saw Mill)
 GREENLAND—Brackett, S. S. (Saw Mill)
 HAMPTON—Brown, F. B. (Saw Mill)
 HOLLIS—Hayden Bros. (Saw Mill)
 Tarbell, E. E. (Saw Mill)
 HOOKSET—\$Head, W. F. & Son (Lumber & Saw Mill)
 \$Thompson, James
 JEFFERSON—\$Rines, Mark
 LACONIA—\$Cook's Lumber Co. (Staves, Exterior & Interior Finish, Dimension Spruce, Pine & Hemlock, Shingles, Laths, etc.)
 LEBANON—Flanders, L. C. (Saw Mill)
 LEE—Fifield, E. O. (Saw Mill)
 Plummer, Daniel E. (Lumber)
 LINCOLN—\$Henry, Jas. E. & Sons
 LISBON—Conrad, Edward J. (Saw Mill)
 Noyes, F. B. Co. (Saw Mill)
 \$Parker & Young Co. (Piano Stock, Packing Boxes & Lumber)
 MANCHESTER—West Side Lumber Co., 168 S Main
 MARLOW—Gee, G. F. (Saw & Shingle Mill)
 Jefts, C. P. (Shingle Mill)
 MILFORD—Guttersen & Burt (Saw Mill)
 \$Peirce, W. E. & Co. (Lumber, Lath, Shingles, Posts, Mill Work, Finish, etc.)
 Ware, W. H. & Co. (Saw Mill)
 NASHUA—Cook, F. D. Lumber Co.
 \$Roby & Swart (Box Shooks, Boxes, etc.)
 Tolles, J. H. & Co.
 NEW MARKET—Glidden, Guy A. (Saw Mill)
 NEWPORT—Pollard, Ralph S. (Saw Mill)
 PARKHILL—Goodnow, E. J. (Saw Mill)
 PELHAM—Coleman, J. N. & Son (Saw Mill)
 Jones, H. A. (Saw Mill)
 PERCY—\$Percy Lumber Co.
 RAYMOND—Batchelder, H. W. (Saw Mill)
 REED'S FERRY—\$Parker, E. E. & P.
 RICHMOND—\$Amidon, Frank
 ROCHESTER—Felder Bros. (Lumber & Saw Mill)
 \$Langley, Geo. H. Lumber Co.
 Rochester Lumber Co. (Mfrs.)
 RUMNEY DEPOT—\$Herbert, H. W. (Shingles)
 RYE BEACH—Jenness, C. A. (Saw Mill)
 SALEM—McLaughlin, K. (Saw Mill)

SALISBURY—Holmes, C. C. (Saw Mill)
 SANDOWN—Sanborn, A. S. (Saw Mill)
 SHORT FALLS—Tripp & Tennant (Saw Mill)
 SOUTH CHARLESTOWN—\$Bowen, G. G.
 SOUTH KINGSTON—Bartlett, W. S. (Saw Mill)
 SOUTH TAMWORTH—\$Mason, W. N.
 STRATFORD—\$Dennis, D. H.
 \$Kimball, William H.
 SUNAPEE—Rowell, J. W. (Saw Mill)
 SURRY—Scripture, H. N. (Saw Mill)
 SUTTON—\$Wadleigh & Keyser (Saw Mill)
 TILTON—Knapp, Geo. E. (Saw Mill)
 UNION—Farnham, J. F. (Saw Mill)
 Plummer, Geo. L. (Saw Mill)
 WALPOLE—Colburn Bros. (Saw Mill)
 WARNER—\$Carroll, E. H. & Sons.
 \$Davis, Martin & Co.
 Ela, M. T. (Saw Mill)
 WARREN—Park, W. R. (Lbr. & Saw Mill)
 WASHINGTON—Dole, M. H. (Saw Mill)
 WATER VILLAGE—\$Thompson, S. J. & Son
 WEBSTER—Burbank Bros. (Lumber & Boxes)
 WEST BRENTWOOD—Fellows, Russell (Saw Mill)
 WEST CAMPTON—Moulton & Johnson (Saw Mill)
 WEST CHESTERFIELD—Amidon, G. F. (Saw Mill)
 WEST EPPING—Folsom, Thos. C. (Saw Mill)
 True & Ham (Shingle Mill)
 WEST THORNTON—\$Veazey, W. D. & Co.
 WESTVILLE—Peaslee, E. E. (Saw Mill)
 WILTON—Livermore, Hy. H. (Saw Mill)
 WINCHESTER—\$Jennings & Buffum
 \$Naramore, Edgar H. (Lumber & Pail Staves)
 WINDHAM DEPOT—Seavy, Geo. E. (Saw Mill)

NEW JERSEY.

ASBURY PARK—Hnrley, James B. (Saw Mill)
 CAMDEN—\$Baird, David & Co. (Lumber & Saw Mill)
 \$Coles, C. B. & Sons Co. (Saw Mill)
 \$Humphreys, H. & Co.
 \$Munger & Bennett (N. C. Pine)
 \$Scudder, R. G. & Son
 \$Smith, R. F. & Son
 \$Stockham, Chas. Lumber Co. (Saw Mill)
 JERSEY CITY—\$Baldwin Lumber Co., Garfield
 \$Dodge & Bliss Co., 15th av & Grand
 \$Vanderbeek & Sons, Green & Steuben
 \$Woodstock Co. (Pine, Cypress & Hardwood), 467 Spring
 NEWARK—\$Bailey & Alling, Ogden ft. Clay
 \$Bockhoven Bros. Co., 132 Astor
 \$Brohm & Buhl, 202 Badger av
 \$Clark & Co. (White & N. C. Pine), Jelliff
 \$Collier, Eusebius, 494 Broad ave
 \$Crowell, James (Hardwood), Ogden ft Cross
 Essex Lumber Co., 200 Passaic
 Glasby, J. F. Lumber Co., 5 Badger av
 Jones, Wm. A. & Son (Saw & Planing Mill, Pine, Hardwood, etc.), ft Centre
 \$Murphy-Hardy Lumber Co. (Lumber & Planing Mill), 150 Passaic
 \$Oathout, Wm. J., 443 Broad
 \$Ripley, D. & Sons Lumber & Timber Co. (Saw & Planing Mill & all kinds of Lumber & Timber, Mouldings, Trimmings, etc.), 443 Broad
 \$Stone & Hershey, 800 Broad
 PATERSON—\$Stiles, E. M., 223 Ellison
 ROCKAWAY—Stickle, B. K. & G. W.

NEW MEXICO.

ALAMOGORDO—\$Alamogordo Lumber Co. (Spruce & Pine Lumber)
 ALBUQUERQUE—\$Albuquerque Lumber Co.
 \$Baldrige, J. C.
 \$Crescent Lumber Co.
 \$Rio Grande Material & Lumber Co.
 CHILLI—Romero, E. & Son (Saw Mill)
 MAGDALENA—Hughes, W. H. (Saw Mill)
 PINOS ALTOS—Redstone Co. (Saw Mill)
 RATON—\$Gate City Lumber Co.
 ROSWELL—\$Pecos Valley Lumber Co.

NEW YORK.

AFTON—Church Bros. (Saw Mill)
 ALBANY—\$Arnold & Co., 6 Lumber District
 Bennett, Wm. (Planing Mill), 1 Lumber District
 \$Crannell, Francis F., Ferry & Water
 \$Easton Cypress Co., 4 Lumber District
 \$Eaton, W. J., DeGraft bldg
 Hart & Fleet (Planing Mill), Bridge c Mill
 \$Hubbell, C. T. & Co., 3 Lumber District
 \$Hughson & Co., 1 Lumber District
 \$Hunter, Dexter, Water & Lawrence
 \$Kibbee, A. S. & Son, 24 Lumber District
 \$Moore, R. H. & Zimmerman, 438 S Pearl
 \$Nichols, Chas. B. & Son, 14 Lumber District
 \$Patton & Co., 23 Lumber District
 Ramsdill & Co. (Planing Mill), Colonie & Montgomery
 \$Robinson, John & Co., 116 Water

Taaffe's William Sons, 128 Water
 Thomson, L. & Co. (Pine, Spruce & Hemlock), 14 Lumber District
 Welsh & Gray, 70 4th av
 \$White, Richard P. (Pine, Spruce & Hemlock), 44 N Pearl
 ALDEN—Milliman, E. A. (Saw Mill)
 ALTMAR—Horton Lumber Co.
 ALTON—Burns, Samuel T. (Saw Mill)
 BARKERSVILLE—Mattison, George
 BATH—\$Jones Bros. & Parker (Lumber)
 BENNINGTON—Zebler, M. F. (Saw Mill)
 BERNB—Cheesebro, W. T. (Saw Mill)
 BINGHAMTON—\$Alaculsey Lumber Co.
 \$Ensign Lumber Co.
 \$Middlebrook, C. D. & Son, State & Lewis
 \$Lyons, A. J. Sons, 16 South
 \$Weed, J. B. & Co.
 BLEECKER—Ernst, Frank (Saw Mill)
 \$Peters, John M., Jr. (Saw Mill)
 BLOCKVILLE—Green Bros. (Saw Mill)
 BOYNTONVILLE—Kautz, Chas. (Saw Mill)
 BRANT—Calkins, Milford (Saw Mill)
 BRASHER FALLS—Church, Elmon (Saw Mill)
 BROOKLYN—(See New York City, Borough of Brooklyn)
 BUFFALO—\$Bartholomew, Edw. W. Lumber Co., Prudential bldg
 \$Betts, Chas. M. & Co. (Pine, Cypress & Shingles), Hertel av & Niagara River
 \$Beyer, Knox & Co. (Hardwood), 69 Leroy av
 \$Boller, Chas. & Sons Co. (Planing Mill), Chicago c Carroll
 \$Buffalo Hardwood Lumber Co. (Hardwood), 940 Seneca
 \$Buffalo Maple Flooring Co. (Maple & Oak Flooring), Chicago & Mackinaw
 \$Curtis, Walter L. Prudential bldg
 \$Elias G. & Bro. (Pine, Hemlock & Hardwood Flooring, 965 Elk
 \$Empire Lumber Co. (Hardwood), White bldg
 \$Emporium Lumber Co. (Hardwood), Ellicott sq
 \$Goodyear Lumber Co. (Penna. White Hemlock), 960 Ellicott sq
 \$Haines Lumber Co. (Shingles, Pine, Red Cedar Lumber), 255 Erie
 Hauenstein, Alfred G. (White & Norway Pine), 848 Ellicott sq
 \$Hurd Bros. (Lath, Shingles & Timber), Prudential bldg
 \$Laidlaw, R. Lumber Co. (White Pine Lumber, Lath & Shingles), 59 Miami
 \$Laycock Lumber Co. 706 Ellicott sq
 \$Leslie, D. Y., 92 River
 \$McLean, Hugh Lumber Co. (Hardwood & Veneers), 940 Elk
 \$McNeil Lumber Co., Prudential bldg
 \$Mason, Edward Z., D. S. Morgan bldg
 \$Miller, Anthony (Hardwood), Eagle & Fillmore
 \$Mixer & Co. (Mich. White Pine), Prudential bldg
 \$Montgomery Bros. & Co. (Yellow Pine & Hardwood), Court & Wilkeson
 \$Relly, W. W. & Bro., Brisbane bldg
 \$Scatchard & Son (Hardwood), 886 Ellicott sq
 \$Standard Hardwood Lumber Co., 1075 Clinton
 \$Stewart, I. N. & Bro. (Hardwood), 892 Elk
 Sullivan, T. & Co. (Hardwood; specialty, Ash & Elm), 50 Arthur
 Superior Veneer & Cooperage Co. (Saw Mill, Cooperage & Veneer Mill)
 \$Taylor & Crate (Hardwood), Prudential bldg
 \$Tindale & Jackson (Hardwood, Lumber, Slack Cooperage, Stock & Broom Handles, etc.), 1318 Niagara
 \$Underhill, D., Jr., & Co., Erie Co. Bk. bldg
 \$Wheeler-Holden & Co. (Hardwood, Erie Co. Bank bldg
 \$Yeager, Orson E. (Hardwood), 932 Elk
 BURRS MILLS—Manigold, George
 BUTLER CENTER—Merrill, Willis
 CALLICOON—Herman, Martin (Saw Mill)
 CANANDAIGUA—Garrett, Wm. (Saw Mill)
 CANDOR—Booth, J. F. & T. S. (Saw Mill)
 Ryan, John H. (Saw Mill)
 CANTON—\$Spears, James (Lumber)
 CARLISLE—Brown Bros. (Saw Mill)
 CASSVILLE—Carpenter, W. H. & Son (Saw Mill)
 CASTORLAND—\$Basselin, T. B. (Saw Mill)
 CASTILE—Elitsac Mfg. Co. (Planing Mill, Wooden Toys & Novelties)
 CATSKILL—Post, Amos (Saw Mill)
 CENTRAL BRIDGE—Ottman, M. C. (Saw Mill)
 CENTRALIA—Littlefield, Sidney (Saw & Shingle Mill)
 CHARLOTTE—\$Upton Co.
 CHENINGO—Hollister & Bryant (Saw Mill)
 CHERRY CREEK—Hess, C. B. (Planing Mill)
 CHESTERTOWN—Maxim, Lemuel (Saw Mill)
 CLARKSBURG—Smith, J. H. (Saw Mill)
 CLYMER—\$Dewink Bros. (Shingle Mill & Baskets)

*Parker, Aaron H. Lumber Co. (Planing Mill, etc.)
CROGHAN—*Lafave, J. R. Lumber Co. (Hardwoods)
 *Lafave, J. R. Lumber Co. (Hardwoods)
 Stelner, Jos. (Saw Mill)
CUBA—*Pheips & Sibley (Hardwood, Lumber & Shingles)
 *Rowley, William Co. (Shingle Mill)
CUTTING—*Case, H. R. (Lumber, Shingles, etc.)
DALTON—Van Nostrand, Wm. (Shingle Mill)
ELLCOTTVILLE—Ellicottville Milling Co. (Saw Mill)
 Rust & Olin (Saw Mill)
ELMIRA—*Doane & Jones Lumber Co. (Cai Trade a Specialty)
FREDONIA—Krnsc, Frederick
GALLUPVILLE—Haverly, Elam W. (Saw Mill)
GARFIELD—Atwater, W. H. (Saw Mill)
GLENS FALLS—*Finch, Pruyn & Co. Gifford, Williams & Co.
 *Kendrick & Brown Co.
GLOVERSVILLE—Burr Bros. (Lumber & Saw Mills)
 *Holden Lumber Co. (Lumber)
 Pock, Albert T. (Saw Mill)
HAGEDORNS MILLS—Chase, Stephen (Saw Mill)
HARRISVILLE—*Humes & Wilber (Lumber, Kilbourn, R. A. Shingles, Lath, etc.)
 Kimball, C. H. & Son
HERMON—Fairbanks, R. J. (Saw Mill)
HOLLAND—Griggs, Ichabod N. & Son (Saw Mill)
 *Homer—Brown, C. S.
JAMESTOWN—*Ross—Warren Lumber Co. (Hardwood)
MARATHON—Burgess, Jas. S. (Saw Mill)
MARIAVILLE—Walpole, D. W. (Saw Mill)
MARYLAND—Burnside Bros. (Saw Mill)
MEXICO—Ames, J. K. (Saw Mill)
MIDDLE GROVE—Colburn, Wilfrid
MIDDLEPORT—Rowley & Eddy
MIDDLETOWN—*Gordon Lumber Co. Miller, P. F.
MILLERS MILLS—Grosline, W. D. (Saw Mill)
MONSEY—Requa, Sara (Lumber)
NEWBURGH—*Newburgh Lumber Co.
 *Newburgh Planing Mill Co.
NEW HAMBURG—*Millard Lumber Co. (White Pine, N. Y. Spruce, Pa. Hemlock & Box Shooks)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—*Brooklyn Lumber Co. (Timbers), 452 Hamilton av
 Bossert, Louis & Son, Grand nr Newtown Creek
 *Curtis Bros. Lumber Co., Liberty av c Vesta av
 *Ferguson & Clarke, 517 Flushing av
 *Gowanus Lumber Co. (Pine & Hardwood), ft of 24th
 *Halsted Lumber Co., 222 Nevius
 *Jacobson, A. C. & Sons, 81 Bridge
 *Leary, James D. (Firm Name), Timbers), Provost nr Eagle
 *Orr, Jno. C. & Co., West c Java
 *Wilson, C. W. & Co. (Yellow Pine, Timbers, etc.), West c Kent

Boroughs of Manhattan & Bronx.

NEW YORK—*Amerlean Lumber Co. (Hardwood, Lumber & Timber), 32 Cortlandt
 *Atlantic Coast Lumber Corp., 42 B'way
 *Baxter, G. S. & Co. (Ties, Piling, Railroad Lumber, etc.), 17 William
 *Booth & Lewis Lumber Co. (Southern Pine), 18 B'way
 *Burton, J. H. & Co. (N. C. & Yellow Pine, Rift, Flooring & Cypress), 45 B'way
 Cannon, J. H. & Co. (N. C. & Yellow Pine), 66 Beaver
 *Cape Henry Lumber (Hardwood), 1 Madison av
 *Cathcart, Jno. Lumber Co. (Hardwood), 39 Cortlandt
 *Chase, Talbot & Co., 29 B'way
 *Cole, Fredk. W. (Hardwood & N. C. White Pine), 29 B'way
 *Cooney, Eckstein & Co. (Yellow Pine, Lumber & R. R. Ties), 66 Broad
 *Creed, W. R. & Co. (L-L, Yellow Pine), 1 Madison av
 *Cromble, W. M. & Co. (for Export & Domestic Trade), 81 New
 *Delatour, A. J. (Hardwood), 176 Cherry
 *Eppinger & Russell Co. (Yellow Pine), 165 B'way
 *Export Lumber Co., 15 William
 Green, A. H. (Box Shooks, etc.), 97 Warren
 *Herrmann, H. Lumber Co., 254 Canal
 *Hilton & Dodge Lumber Co. (Cypress), 17 Battery pl
 *Hirschberg, H. (Pine, Cypress & Hardwood), 99 Nassau

*Holcomb & Caskey Lumber Co. (Pine, Hemlock & Cypress, Lumber & Shingles), 10 B'way
 *Hussey, Jno. W. (Bridge & Dock Timber, etc.), 1 B'way
 Lafond, Fred'k S. Co., 66 Broad
 *Langdon, C. S. & Co., 71 Beaver
 *Lewis, Harry L., Cotton Exchange bldg
 *Lowry, Robt. C. & Co. (Yellow Pine & Box Shooks), 1170 B'way
 *McDonald, Jno. W., 196 Wall
 *Manulug, Chas. W., 65 Broad
 *Miner, Stauley H. (Timber, Piles, Dock Logs, etc.), 17 Battery Pl
 *Murchie, Horace B. & Co., 58 Pine
 *Parrott, Wm. & Co., Produce Exch
 *Pitch Pine Lumber Co., 11 William
 *Price & Hart (Hardwood & Veneers), 18 B'way
 *Publishers Paper Co. (Hardwoods, Veneers, etc.), 1 Madison av
 *Quinby, Edgar H., 68 Broad
 *Reynolds, J. A. & Bros., 116 Broad
 *Roper, John L. Lumber Co. (N. C. Pine), 18 B'way
 Salmon, Hamilton H. & Co. (Hardwood), 88 Wall
 *Shepard & Morse Lumber Co. (Cypress, N. C. Pine, etc.), 18 B'way
 *Simpson, Clapp & Co., 17 State
 *Sizer, Robert R. & Co. (Yellow Pine), 15 William
 *Smith, Gouverneur E. & Co., 17 Battery Pl
 *Southard & Co. (N. C. Pine), 11 Broadway
 *Stratton & Wilson, 11 B'way
 Swayze, Geo. A., 18 B'way
 *Turner, J. C. Lumber Co. (White Pine, Rd Cedar, Cypress & Poplar), 1123 B'way
 Willey—Harker Lumber Co., Flat Iron bldg
 *Williams, I. T. & Sons, 220 11th av
 *Yellow Pine Co. (White & Yellow Pine, Spruce & Hemlock), 16 Beaver

Borough of Queens.

LONG ISLAND CITY—Eppinger & Russell Co. (Yellow Pine), 1st & East av.
 (End of New York City)
NORTH TONAWANDA—(See Tonawanda)
OGDENSBURG—*Proctor Mfg. Co. (Lumber & Mill Work)
 *Skillings, Whitney & Barnes Lumber Co. (White Pine)
ONEIDA—*Bennett & Klock (Saw Mill)
PARISHVILLE—Clark, S. L. & Son (Lumber, Butter Tubs, etc.)
PARKERS—*Parker, L. B. (Spruce & Hardwood Flooring)
PERRY—Andrus, David (Saw Mill)
PIFFARD—Shattuck, T. N. (Heading & Staves)
PIKE—Powers, Wm. (Saw Mill)
PITCHER—Bennett, Geo. W. (Saw Mill)
POINT ROCK—Bates, Orson C.
PORTER CORNERS—Jones, John S. (Saw Mill)
RANDOLPH—Wilson, Lydell L.
ROCHESTER—*German-American Lumber Co., 62 Portland av
 *Hollister Lumber Co. (Hardwood & Pine), 316 N. Goodman
 *Miller, John (White Oak & Pine), 691 Exchange
 *Morse, Wm. B. Lumber Co. (Hardwoods, Pine & Hemlock, Shingles, etc.)

WOOD MOSAIC FLOORING CO.

(Hardwood Lumber & Oak Flooring). (See adv. index, end of book)
ROME—Comstock, Edward
ROUSE POINT—*Millard Lumber Co. (Lumber & Box Shooks, Pine, Spruce & Hemlock)
SAMMONSVILLE—Sammons, W. S. (Saw Mill)
SANDY HILL—*Griffin Lumber Co.
 *Kenyon Lumber Co. (Lath, Saw Mill, etc.)
SCHENECTADY—Peckham, Wolf & Co. Veeder & Brown
SHERMAN—Simmons, J. H. (Shingle Mill)
SIDNEY—*Silver, M. L. & Co. (Pine, Spruce & Cypress)
SOLSVILLE—Lyon's Mills (Saw Mills)
SOUTH STOCKTON—Wakeman, Frank (Saw Mill)
SPRINGBROOK—Northrup, Eli (Saw Mill)
SYRACUSE—*Bannon Lumber Co.
 *Chapman, E. E. Sons, 1322 Carbon
 *Kenyon, Geo. G. Lumber Co. (Hardwood, Shingles, etc.), 601 E Watts
 *McChesney & Tracy Lumber Co. (Pine & Hemlock, Shingles, etc.), 607 James
 *McDowell, John Kenyon, 211 Wilkinson
 *Mann & Hunter Co., 962 Salina
TONAWANDA—*Alliger, Frank I. Lumber Co. (Lumber, Box Shooks & Baled Shavings)
 *Bellinger, A. A.
 *Brady Bros.
 *Charlton, John & Thos. (Timber, Lumber & Planing Mill)
 *Collins Cornellus (Wholesale Commission)

*Cowper, W. H. & Co. (Forwarders via Rail & Canal)
 Dodge & Bilss Co. (Box Shooks & Planing Mill) (Also see Jersey City, N. J.)
 Eastern Lumber Co. (Mill Work)
 *Fenton & Sons Box & Lumber Co.
 *Gillespie, Jas. (Wholesale Commission)
 *Godkin, John
 *Hoadley & Bennett Lumber Co. (Yellow Pine, etc.)
 *Jones, R. T. Lumber Co.
 *Kelsey-Denis Lumber Co.
 *Kelsey, W. E.
 *Lentz, C. B.
 *McLean Bros. (Wholesale Lumber)
 *Mackenzie, J. P. (Wholesale Lumber)
 *McBurney, J. A. Lumber Co.
 *Northern Lumber Co.
 *Oille & McKean Lumber Co. (Wholesale Lumber)
 *Robinson Bros. Lumber Co. (White Pine Lumber & Shingles)
 *Silverthorne, Wm. & Co. (Lumber & Shingles)
 *Smith, Fassett & Co. (White Pine)
 *Smith, M. M. (Wholesale Commission)
 *Swan, Lewis H. & Co.
 *Thompson, Hubman & Fisher (Lumber & Planing Mills)
 *Transfer Lumber & Shingle Co.
 *Twlu City Lumber Co.
 *Weston, A. & Sou
 *White, Frost & White
 *White, Gratwick & Mitchell (Lumber)
 *White, W. H. & Co. (Planing Mills)
 *Wilk, C. J. & Co.
 *Wilson Lumber & Box Co.
TROY—*Madden Lumber Co. (Lumber & Planing Mill), 599 1st av (Lans.)
UNION CENTER—Howard, B. (Saw Mill)
UTICA—Downer's Lumber Yard, 280 Whitesboro
 *Gibson, G. P. & Son, 720 Genessee
 *Kellogg, C. C. & Sons Co.
 *Nellis, Amos & Swift (Hardwood)
 Thomas, Philip Sons, 137 Kenble
WATERTOWN—*Harroun, J. E. & Son (Spruce Flooring Siding Lath, Shingles & Box Shooks)
WATERVILLE—*Waterman, Smith A.
WARWICK—Horton, M. V. B. (Saw Mill)
WEBSTER CROSSING—White, Charles H. (Saw Mill)
WELLS—*Hosley, M. B. & Sons (Hardwoods)
WELLSVILLE—*Coats Mfg. Co. (Hardwood)
 *Duke Oak Lumber Co. (Lumber, Timber & Shingles)
 *Fassett, Fred. W. (Lumber)
 Hanks & Hopkins
WEST BURLINGTON—Gardner, O. C. (Saw Mill)
WEST ONEONTA—Rouse, Albert (Saw Mill)
WEST STOCKHOLM—Gibson, G. N. & Sou
WEST WINFIELD—Hackley, A. C. (Saw Mill)
WHITESBORO—*Denton & Waterbury (Lumber, Lath & Shingles)
WILLIAMSTOWN—Sage, J. L.
WILLSBORO—Highby, H. Co. (Saw Mill)
WOLCOTT—*Stralt, J. G. & Son (Lumber)
WORCESTER—Hadsell, J. T. & Son (Saw Mill)

NORTH CAROLINA.

ABERDEEN—Aberdeen Sash & Blind Co.
ALLIANCE—Campen, Samuel (Saw Mill)
ALMA—*Alma Lumber Co.
AMITY—Christy, M. A. (Saw Mill)
ANDREWS—Russell, D. S. (Saw Mill)
ASHBORO—*Star Lumber & Mfg. Co. (Saw Mill)
ASHEVILLE—*Cooper, W. N. (Saw Mill)
 *McEwen Lumber Co.
 Mason, W. T. Lumber Co.
ATKINSON—Murphy, J. A. (Saw Mill)
 *Howes, E. A. (Saw Mill)
AUSTIN—Burchett, C. M. (Saw Mill)
BISCOE—Burt & Hicks
 Kanoy, J. E.
BOARDMAN—*Butters Lumber Co. (N. C. Pine)
BOLTON—Waccamaw Lumber Co. (Cypress, N. C. Pine, Cedar & Gum, Lumber, Lath & Shingles)
BRIDGEWATER—Albernethy & Lyster (Saw Mill)
CANDOR—*Ewing & Campbell (Saw Mill & Shingles)
 *Sntton, R. B. (Lumber)
CARTIAGE—Currie & McQueen (Saw Mill)
 *McAnley, J. R. (Saw Mill)
CATES—Cates, J. T. (Saw Mill)
CHARLOTTE—Wearn, J. H. & Co. (Lumber & Mfrs. Office Fixtures)
DOVER—*Goldsboro Lumber Co. (Yellow Pine Flooring & Finish)
EDENTON—*Branning Mfg. Co. (N. C. Pine & Box Shooks)
ELIZABETH CITY—Commander, T. A. & Son
GREENSBORO—*Brooks Mfg. Co.
 *Gifford Lumber Mfg. Co.
GREENVILLE—Overton, D. D. (Saw Mill)
HERTFORD—Major & Loomis (Saw Mill)
HICKORY—Hutton & Bourbonnais (Saw Mill)
HIGHPOINT—*Snow Lumber Co.

HOT SPRINGS—Updegraff, S. G.
LENOIR—*Wilson Lumber & Milling Co.
LUMBER BRIDGE—Lancaster, D. B. & Co.
MADISON—Cahill, E. P. (Saw Mill)
MANCHESTER—Black, Nellie
MAPLETON—Carmen, Geo. E. (Saw Mill)
NEWBERN—*Blades Lumber Co. (N. C. Pine & Saw Mill)

*Broadus & Ives Lbr. Co. (N. C. Kiln Dried Pine Shingles, etc.)

Elm City Lbr. Co. (Saw & Planing Mill)

*Munger & Bennett

*Pine Lumber Co.

NEW HILL—*Hunter Bros. & Co.

NEWPORT—Bell, W. S. (Saw Mill)

PLYMOUTH—*Plymouth Lumber Co.

*Roanoke R. R. & Lumber Co.

*Walker & Myers (Saw & Planing Mills)

RALEIGH—Lassiter, C. J. (Saw Mill)

RED SPRINGS—Love, J. M. & Co. (Planing Mill)

*Pearsall, A. B. (L. L. Yellow Pine)

*Red Springs Lumber Co.

Sikes, McIntosh & Co. (Saw Mill)

Singleton, J. A. (Saw Mill)

ROPER—*Roper, John L. Lumber Co. (N. C. Pine)

SANFORD—*Sanford Sash & Blind Co. (Dress-Washington—Kugler Lumber Co. ed. etc.)

*Short Lumber Co. (N. C. Pine)

Walling, W. B. (Saw Mill)

WEST END—*West End Veneering Co. (Veneers)

WILLIAMSTON—*Simmons, Dennis Lumber Co. (N. C. Pine)

*Wicomico County Lumber Co.

WILMINGTON—*Angola Lumber Co.

*Cape Fear Lumber Co.

*Chadbourne Sash, Door & Lumber Co.

*Hilton Lumber Co.

*Kilder Lumber Co.

WINSTON SALEM—Cummings, J. M. (Lumber & Planing Mill)

*Hoover, A. L. & Co. (Saw Mill)

WINTON—Jordan & Parker (Lumber)

Taylor, W. P. (Lumber)

NORTH DAKOTA.

ADDISON—*Liberty Lumber Co.

ASHLEY—*North Star Lumber Co.

*Phoenix Lumber Co.

FARGO—*White Lumber Co.

GRAND FORKS—*Robertson Lumber Co.

MAYVILLE—*Beldler & Robinson Lumber Co.

OHIO.

AKRON—Akron Lumber Co., 1027 S Main

Lyman-Hawkins Lumber Co.

ANLINE—Weller, John W. (Saw Mill)

BAINBRIDGE—Durnell, C. E. (Saw Mill)

BELLEVILLE—*Ritter, P. (Lumber, Staves & Headings)

BLUFFTON—*Altbaus, Ewing & Co.

Kimmel, J. W.

BOWLING GREEN—Bigelow Bros. (Saw Mill)

BUCYRUS—*Colter, Jacob & Co. (Saw Mill)

CADIZ—*Long, E. M. & Sons

CEDARVILLE—Tarbox Lumber Co. (Saw Mill)

CINCINNATI—Acme Veneer & Lumber Co. (Veneers, Thin Lumber & Mahogany Lumber), 8th & Harriet

*Asher, I. M. Lumber Co. (Hardwoods), Bank & Western av

*Banning, L. G. (Walnut, Quartered Oak, Ash & Mahogany), 5th & Main

*Bennett & Witte (Asb, Oak, Elm Gum, Cypress, Poplar, etc.), 222 W 4th

*Boyd, Chas. C. & Co. (Hardwood & Veneered Lumber), Glenn bldg

*Browne, H. R. (Yellow Pine, Poplar & Cypress), Fosdick bldg

Chaney, W. G. (R. R. Ties & Logs), Swift bldg

Cincinnati Hardwood Lumber Co. (Oak & Mahogany Veneers), Gest & Summer

Crane, C. & Co. (Hardwood Lumber & Box Lumber), 1739 Eastern av

*Cypress Lumber Co., Gest & Dalton av

*Darling, J. W. Lbr. Co. (Ash, Oak, Poplar, etc.), Union Trust bldg

Donnes, J. B. Sons Lumber Co., 1246 Gest

*Duhmeier Bros. (Hardwoods, Mahogany, etc.), Wade & Dalton av

*Dulweber, Jno. & Co. (Hardwood), McLean av & Findlay

*Enterprise Lumber Co. (Yellow Pine, Lath & Shingles), Kenner & McLean av

*Farrin, M. R. Lumber Co. (Poplar & Oak, Beveled Siding, Flooring, Oak for R. R. Ties, Fence Posts, Bridges, Shins, Dock Piling, etc.), Winton pl

*Farrin-Korn Lbr. Co. (Cottonwood, Rough & Dressed Yellow Pine), Station av, Winton Place

*Freiberg Lumber Co. (Hardwoods), Mahogany & Spanish Cedar, McLean & Findlay

*Galle, W. F. & Co. (Southern Hardwoods), 1262 Budd

*Goodman & Wright (Yellow Pine & Cypress), First National Bank bldg

Grabam Lumber Co. (Yellow Poplar), 41 E

Griffiths, Jos. & Sons (Planing Mill), Reading rd & E 12th

*Hall, C. R. Lumber Co., Commercial-1150 Kenner

*Heyl, Phillip F. (Pine, Poplar & Cypress), 1215 W 6th

*Hinckley-Dwight Lumber Co. (Yellow Pine & Cypress), 2209 Fulton av

*K. & P. Lumber Co. (Walnut, Oak, Asb, Poplar & Cherry; Exporters of Logs), Carthage Pike & B. & O. S. W. Ry.

*Keeveny, T. W. Lumber Co. (Pine, Hardwoods & Shingles), 8th, nr Carr

*Kentucky Lumber Co. (Gum Oak, Ash & Chestnut, Factory Lumber, Poplar, Bevel Siding, Dimension Strips, Shelving Boards, Mouldings, etc.), 1st Nat'l B'k bldg

*Kipp, B. A. & Co. (Hardwood), 818 W 6th

*Lewin, A. M. Lumber Co. (Yellow Pine & Cypress), Bank & McLean av

*Littleford, Geo. (Hardwood), 1263 Richmond

*McRoberts, J. T. (Yellow Cottonwood & Southern Hardwoods), Mercantile Library bldg

*Maley, Thompson & Moffett Co. (Black Walnut Logs, Hardwood, Mahogany & Veneer), 8th & Evans

*Nickle, H. L. Lumber Co., Mitchell bldg

*Mowbray & Robinson (Poplar & Hardwoods, Car Stock, Ties, etc.), 1219 W 6th

*Nicola, Stone & Myers Co. (Pine & Hardwood), 1221 W Liberty

*Ohio Veneer Co. (Mahogany & Thin Lumber & Veneers, Sliced, Cut & Sawed Quartered Oak Veneers), 2620 Colerain av

Owl Bayou Cypress Co., 1308 Central av

*Perry, Wm. H. Lumber Co. (Heavy Oak & Pine Timbers a Specialty), 1821 Gilbert av

Pierson, J. L. & N. L., Cooper & Cherry

*Radina, L. W. & Co. (Hardwoods), Clark & Dalton av

*Riebey, Halsted & Quick (Poplar, Yellow Pine, White Pine, Oak), Traction bldg

*Riemeler Lumber Co. (Hardwoods, Quartered & Plain Oak), Gest & Berlin

*Roberts, E. & Co. (All Kinds), 414 E Court

*Scott, T. P. & Co., York & McLean avs

*Sbiels, Chas. F. & Co. (Hardwood), McLean av & Gest

*Sowles, C. W. Lumber Co. (Hardwoods, White & Yellow Pine), Thomas bldg

*Stewart-Roy Lumber Co. (Hardwood), Mercantile Library bldg

*Stone, T. B. Lumber Co. (Yellow Poplar, Oak, Chestnut, Walnut, Gum, Cottonwood & Asb), Union Trust bldg

Taft, S. H., 1308 Central av

Townley, Wm. E. & Co., McLean av & Gest

*Western Lumber Co. (Hardwood), c 8th, nr Evans

*Wiborg & Hanna Co. (Yellow Pine & Hardwood), 2649 Cummins

CLARK—Conkle, John (Saw & Planing Mill)

CLEVELAND—*Advance Lumber Co. (Pine & Hardwoods), Rockefeller bldg

*Alexander Bros. Lumber Co., Schofield bldg

Barner-Mead Lumber Co., 1962 E 107th

*Central Lumber Co., Williamson bldg

*Cleveland Box Co. (Resawed Lumber, Box Shooks, Packing Cases & Crating), Stone's Levee & Ohio

*Cool, W. A. & Son (Hardwoods), The Arcade

*Cuyahoga Lumber Co., 1948 Carter rd, N W

*Enclid Av Lumber Co., 11710 Enclid av

*Fisher & Wilson Co. (White Pine), Rockefeller bldg

*Foote, C. H. Lumber Co., 1955 Scranton rd, S W

*Georgian Bay Co., 55 Stone's levee

*Gill Lumber Co., 1892 W 3d, S W

Greif Bros. Co. (Barrels & Kegs & Stack Cooperage Stock), 1937 Willey av, S. W.

Interstate Lumber Co., The Arcade

*Jenks, Robert H. Lumber Co. (Yellow Pine, Red Oak, Hemlock & Hemlock Shingles), 308 Enclid av

Lake Erie Lumber Co., 5459 Hamilton av, W. E.

*Martin-Barries Co. (Mahogany & Cabinet Wood Mfrs. & Importers), 2048 W 3d

*Mills-Carleton Co., 1886 Carter rd, N W

Nicola, Stone & Myers Co., Hickox bldg

*Potter, Teare & Co., 1918 Carter rd, N W

*Prasse Lumber Co., 1864 Columbus rd, N W

*Saginaw Bay Co., 2106 W 3d, S W

Singleary Lumber Co., 1633 Merwin, N W

COAL GROVE—*Yellow Poplar Lumber Co. (Yellow Poplar & White Woods)

COALTON—Haslett, C. W. (Saw Mill)

COLUMBUS—*Bergin, M. J. Lumber Co., Spring & Dennison av

*Cones & Menefee, 450 W Broad

*Crosby & Beckley Co., 1832 E Long

Cross, G. D., Lumber Co., Long c Water

*Douglas & Walkley Co., 1832 E Long

Hildreth & Martin Lumber Co., 157 W State

*Kelton & Converse, c Spring & Water

*Kile & Morgan Co., Columbus Trust Co.

*Nelson, C. T. Co., 323 Dublin av

*Powell Lumber Co., 35 Vine

*Ritter, W. M. Lumber Co. (Oak & Poplar)

*Snider, J. J. Lumber Co., Taylor av

CUYAHOGA FALLS—Walsb Milling Co.

DAYTON—*Dayton Lumber & Mfg. Co.

*Edwards, E. L.

*Gelbart, Alex. & Co.

*Hartzell, Geo. W. (All Kinds of Hardwoods)

Hossafous, H. C.

*Kuntz-Johnson Co.

*Kuntz, Peter

*Miami Lumber & Veneer Co. (Hardwoods)

ELLERTON—Poe & Linebaugh (Saw Mill)

FAYETTE—Allen, J. O. & Co.

FINDLAY—*Parker Bros. (Lumber & Mills)

Pennsylvania Lumber Co.

FOSTORIA—Praver, F. W. (Saw Mill)

FRANKFORT—Ott, Jno. W. (Saw Mill)

FRANKLIN—Hankinson, J. V. (Saw Mill)

GALENA—Bennett, E. C. (Saw Mill)

GREENFIELD—Barr, W. L. (Saw Mill)

HAMILTON—Bender Co. (Lumber & Planing Mill)

Dingfelder, W. M. & Co. (Lumber & Planing Mill)

IRONTON—*Fearon Lumber & Veneer Co. (Poplar, Rough & Dressed)

*Ironton Lumber Co.

*Nigh Lumber Co. (Poplar, Ash & Walnut)

*Ward, W. G. Lumber Co.

LEIPSI—Buckeye Stave Co. (Large, Saw, Planing & Stave Mill)

LORAMIE—Wise, Aug. (Saw Mill)

LORDSTOWN—Park Bros. (Saw Mill)

MANTUA—Hine & Cook

MARION—Implement Mfg. Co. (Hardwood)

MARTIN—Post, Geo. E. (Saw Mill)

MIAMISBURG—*Wantz, H. Lumber Co. (Hardwood)

ROSEVILLE—Coombs, Hy. (Saw Mill)

SOUTH SALEM—Lunbeck & Son (Saw Mill)

SOUTH WARSAW—*Hardin, F. P. & J. J. (Saw Mill)

SPENCERVILLE—Reynolds Lumber Co. (Saw Mill)

SPRINGFIELD—*Rawlins, Albert M. (Hardwood), Main & Lincoln av

STRYKER—Stryker Boat, Car & Lumber Co.

SYCAMORE—Pett, J. A. (Saw Mill)

TIRO—Allen, B. F.

TOLEDO—*Acme Lumber Co. (Hardwoods, & Ties, Poles & Posts)

*Barbour & Starr (Cork, Pine & Sash Stock), Summit c Albany

*Barnes & Mauk, Gardner blk

*Campbell Co. (& Planing Mill), Hoag nr Dorr

*Empire Lbr. Co. (White & Yellow Pine), Asb c Water

*Kelsey & Freeman (White Pine)

*MacLaren & Sprague Lbr. Co. (White Pine)

*Peter, Wm. (White Pine), 197 S St. Clair

*Trotter Lumber Co.

URBANA—Stephen Bros. (Hardwood)

VAN WERT—*Gleason Lumber Co. (Saw Mill)

WAUSEON—Wansee Lbr. Co. (Hardwood)

*Williams, H. H. & Co. (Saw Mills)

ZOAR—*Bimeler, Jno. (Hardwood Saw Mill & Planing Mill)

OKLAHOMA.

OKLAHOMA—*Pine Tree Lumber Co. (Yellow Pine)

RED ROCK—*Foster Lumber Co.

OREGON.

ANLAUF—*Anlauf Bros.

ASHLAND—*Asbland Mfg. Co.

ASTORIA—*Astoria Box Co. (Boxes & Lumber)

AUDREY—*King, L. D.

AUMSVILLE—*Miller & Goin

AURORA—*Keil, Arthur W. (Saw Mill)

BAKER CITY—*Oregon Lumber Co.

BEAVERTON—*Livermore, F. W.

BRIDAL VEIL—*Bridal Veil Lumbering Co.

BROWNSVILLE—*Calnpool Lumber Co.

BULLARD—*Fubey, E. & Sons

BUXTON—*Buxton Lumber Co.

CANAS VALLEY—*Kirkendall, J. A. & Sons

*Thrush Bros. (Saw Mill) (Saw Mill)

CANBY—*Adkins, Jas.

*Cole Bros.

CANYONVILLE—*Pickett, J. R.

CARLTON—*Carlton Lumber Co.

CASCADE LOCKS—Oregon Lumber Yard

CLATSKANIE—*Clatskanie Lumber Co.

*West Oregon Lumber Co.
 COBURG—Booth-Kelly Lumber Co.
 COMSTOCK—Skidmore, Wm. & Son.
 *Stewart & De Launay
 COQUILLE—Johnson Lumber Co. (Saw Mill)
 CORVALLIS—Corvallis Mfg. Mill Co.
 COTTAGE GROVE—Brown Lumber Co.
 *Cerro Gordo Lumber Co.
 *Chambers, J. H.
 *McKibben Bros.
 *Woodward, A. L.
 DALLAS—Willamette Valley Lumber Co.
 DAYS CREEK—Neuner, Geo. S.
 DEXTER—Parwin & Cruzan Bros.
 DIVIDE—Chatman S. & F.
 *Lindstrom, P. A.
 *Taylor & Lee
 DORENA—Chambers Lumber Co.
 DRAIN—Elk Creek Lumber Co.
 *Page Investment Co.
 DREWSEY—Ott, John & Co.
 DUFUR—Dufur Lumbering Co.
 Ward Bros.
 EMPIRE—Southern Oregon Co.
 ESTACADA—Davis & Webster
 EUGENE—Booth-Kelly Lumber Co.
 *Eugene Lumber Co.
 FALLS CITY—Falls City Lumber Co.
 FISHHAWK—Freeman, D. W. (Saw & Planing Mill)
 FOREST GROVE—Williams, W. H. & Son
 FOSSIL—Butte Creek Land, Live Stock & FOSTER—Wodtli, Fred. Lumber Co.
 FRIEND—Wheeler, D. S. & Son
 GALES CREEK—Miller, Clarence
 GARFIELD—Linn Bros. (Saw Mill)
 GLENDALE—Glendale Lumber Co.
 GOBLE—Broughton-Wiggins Lumber Co.
 *Goble Milling Co.
 *Jones, E. A.
 GRANTS PASS—Welter, Pracht & Schmidt Bros.
 *Williams Bros.
 GURDANE—McLaughlin, J. A.
 HARDMAN—Parker Mill & Lumber Co.
 HEPPNER—Slocum, A. M.
 HILGARD—Casey, J. D. (Lumber & Ties)
 HOBSONVILLE—Miami Lumber Co. (Saw Mill)
 HOOD RIVER—Stanley-Smith Lumber Co.
 HOSKINS—Frantz, C. A.
 JUNE—June Lumber Co.
 KENO—McCormack, Thos. (Saw Mill)
 KLAMATH FALLS—Moore, C. S. & R. S.
 LACOMB—Banner Mill Co.
 LEBANON—Lebanon Lumber Co.
 *Smith & Jerome
 LEONA—Leona Mills Lumber Co.
 LINNTON—Clark & Wilson Lumber Co.
 *Noyes, J. B. & Co.
 LONDON—Shortridge, W. C.
 LORANE—Addison Bros. & Ross
 LOST VALLEY—Lost Valley Land & Lumber Co.
 MEACHAM—Meacham Lumber Co.
 MEDFORD—Stevens, A. J.
 MEDICAL SPRINGS—Langrell, R. T.
 MELROSE—Diller, E. W.
 MILL CITY—Curtiss Lumber Co.
 MILLWOOD—Clark & Sons (Saw & Shingle Mill)
 MILTON—Olinzer Bros.
 MIST—Libel, Casper
 MOUNTAINDALE—Thompson Bros.
 MOUNT ANGEL—Giger Bros. & Lackey
 *Mortenson, Wm.
 MULINO—Trullinger, D. L.
 MYRTLE CREEK—Myrtle Lumber Co.
 NEWBERG—Spaulding, Chas. K. Logging Co. (Rough & Dressed Ash & Maple, etc.)
 OAKLAND—Norris Bro.
 OREGON CITY—Moehnke, Chas. (Saw Mill)
 *Shannon Bros.
 ORIENT—Straus Lumber Co.
 PAISLEY—Chenauca Lumber Co.
 PEDEE—Pedee Lumber Co.
 PEORIA—Kaltreider, Wm. (Shingles)
 PERRY—Grande Ronde Lumber Co.
 PHILOMATH—Henkle, J. L.
 PORTLAND—Ainslie, Geo. & Co. (Imported Woods & Mill Work). Pettygrove c 15th
 *Broughton & Wiggins Co. (Piling & Cedar Poles). Cham. of Com. bldg
 *East Side Mill & Lumber Co.
 *Eastern & Western Lbr. Co., Front st. N
 *Falls City Lumber Co. (Soft Siletz. Yellow Fir Lumber & Red Cedar Shingles)
 *Inman, Poulsen Co. (Oregon Pine). ft E
 *Jones Lumber Co. Sherman
 *Lindsley-Wright Co. (Poles, Ties, Piling & Timber, etc.). Sherlock bldg
 *Multnomah Lumber & Box Co.
 *North Pacific Lumber Co.
 *Northwest Door Co., ft Albina av
 *Nordby Lumber Co., Lumber Exch bldg
 *Oregon & Washington Lumber Co.
 *Pacific Export Lumber Co. (Pine, Fir & Spruce). Cham. of Com. bldg
 *Patterson Lumber Co.
 *Peninsula Lumber Co. ("Oregon" Fir Lumber, Car Material Exclusively)

*Portland Lumber Co. (Fir Lumber), ft
 *Standard Box & Lumber Co. Lincoln
 *Wheeler Lumber Co., Sherlock bldg
 RANIER—Columbia River Door Co.
 *Oregon-Kansas Lumber Co.
 *Ranier Mill & Lumber Co.
 *Stehwan Bros. (Saw Mill)
 *Wilson, C. C. Lumber Co.
 RIDDLE—Little, P. M.
 ST. JOHNS—St. Johns Lumber Co.
 SANDY—Strauss Lumber Co. (Saw Mill)
 SCAPPOOSE—Nelson-Wilcox Lumber Co.
 *North Coast Co-Operative Lumber Co.
 SCHOLLS—Groner & Rowell Co.
 SCOTTS MILLS—White, Chas. A.
 SEASIDE—Seaside Lumber & Mfg. Co.
 SHERIDAN—March, T. H.
 *Sheridan Lumber Co.
 SHERWOOD—Conzelmann Bros.
 *Vincent, F. D.
 SILVERTON—Porter, A. L.
 *Ross, E. W.
 *Lais, Jno. G.
 *Schiedler & Hartman
 *Silverton Lumber Co.
 STAFFORD—Saum, George (Saw Mill)
 STAR—Star Lumber Co.
 *Taylor Geo. & Sons
 STAYTON—Brown, Lee & Sons
 SWEET HOME—Weedle, John
 TILLAMOOK—Long, Frank
 *Tillamook Lumber Mfg. Co.
 WARRENTON—Kelly, D. L. Lumber Co.
 *Old Oregon Lumber Co.
 WATERLOO—Hurst, E. P. (Saw Mill)
 Wiley, J. M. (Saw Mill)
 WEST PORT—Westport Lumber Co.
 WILDWOOD—Wildwood Lumber Co.
 WOODBURN—Abaqua Lumber Co.
 YANKTON—Sherman Bros. & Stanwood
 YONCALLA—Cutlack Bros.

PENNSYLVANIA.

ALLEGHENY—Bruckman Lumber Co.
 *McClure Timber Co. (Lumber & Saw Mill)
 Schulze & Emanuel (Lumber & Planing Mill)
 *Walter, H. R. Lumber Co. (Hardwood & Yellow Pine)
 ALLENTOWN—Laubach, M. H. & Bro.
 *Trexler Lumber Co.
 ASHLAND—Bright, H. F.
 AUSTIN—Harvey & Collins (Saw Mill)
 AVONDALE—Hicks, Jno. H. (Saw Mill)
 BANDANNA—Heil, Jno. (Saw Mill)
 BARRY—Bolich, Wm. (Saw Mill)
 BARTONVILLE—Slutter, L. L. (Saw Mill)
 BEANS COVE—Donohoe, Peter (Saw Mill)
 BEAVER FALLS—Brierly, F. K.
 BEAVER TOWN—Engle, A. W. (Saw Mill)
 BECHTELSVILLE—Stauffer, A. T. B. (Saw Mill)
 BELLEFONTE—Crider, P. B. & Son (Lumber & Saw Mills)
 BELLE VERNON—Belle Vernon Planing Mill Co.
 BIG RUN—McClure, Tyson & Irwin
 BRADFORD—Bemis, J. M. & Son
 *Bond, Alfred J. (Hemlock). 124 Mechanic
 *Bradford Hdw. Lumber Co.
 *Stout & Holden
 BROOKVILLE—Anderson Lumber Co.
 Cook, A. W.
 *Vanleer Bros. (Lumber & Planing Mill)
 BURNT CABINS—Comer, W. M. (Saw Mill)
 CAMBRIDGE SPRINGS—Blystone, C. W. (Saw Mills)
 CANTON—Crawford, H. & Sons
 CLARINGTON—Braden, A. R.
 Clarington Saw Mill Co.
 *Work, Josiah & Son
 CLEARFIELD—Clearfield Lumber Co. (Ltd.) (Hemlock, Pine, Oak & Hardwood)
 COATESVILLE—Ash, Chas. W. (Saw Mill)
 CONNER—Thomas, L. M. (Saw Mill)
 CONYNGHAM—Hess, A. E. (Saw Mill)
 COOKSBURG—Cook, J. R. (Saw Mill)
 *Cook's, A. Sons (Lumber)
 EASTON—Butz, Edward M. (Planing Mill)
 Zearfoss-Hillard Lumber Co. (Lumber & Saw Mill)
 EBENSBURG—Griffith, Webster (Maple Flooring, Hemlock & Hardwood)
 ELIZABETH—Rhodes, S. O. (Saw Mill)
 ELKLICK—Compton, Demetrius (Saw Mill)
 ELMER—Gilbert, C. A.
 EMPORIUM—Catlin, C. G. (Saw & Shingle Mill)
 ENDEAVOR—Wheeler, Aylesworth & Co. (Saw Mill)
 *Wheeler & Dusenberry (Lumber, Lath & Shingles. Pine Lumber up to 72 feet)
 EVANS CITY—Dambach, Edw. Co.
 FELTON—Stabley, W. H. (Saw Mill)
 GUYS MILLS—Morgan, John (Saw Mill)
 Williams Bros. (Saw Mill)
 HALLTOWN—Hall, Gardner & Co. (Lumber)
 *Moore, W. E.

HOLLIDAYSBURG—Irvine, Robt. C.
 *Young, Blair B. (Saw Mill)
 IOLA—Eves, W. M. & Sons
 JERSEY SHORE—Torbert, J. Frank
 Childs Brothers Lumber Co. (Saw Mill)
 JOHNSTOWN—Murdock, J. M. & Bro. (White Oak, Hemlock, White Pine & Hardwood)
 KANE—Mell, Geo. H. (Rough & Dressed Lath & Shingles)
 KEATING SUMMIT—Emporium Lumber Co. (Hardwood)
 KNOXVILLE—Edgecomb's, I. M. Sons (Mill Work)
 KUTZTOWN—Gonser, John R.
 LANCASTER—Kalbach, A. M. (Saw Mill)
 Keystone Planing Mill Co.
 Lancaster Planing Mill Co.
 Spider Lake Saw Mill & Lumber Co.
 LEWISBURG—Nesbitt, D. M. & Co. (Lumber, Timber & Interior Finish)
 MARIENVILLE—Hart, W. T. (Lumber & Shingles)
 *Shields, D. B.
 MILLERSBURG—Snyder, C. J. (Saw Mill)
 MILTON—Clinger's, D. Sons (Lumber & Planing Mill)
 MONONGAHELA—Monongahela Saw & Planing Mill Co.
 NEW BETHLEHEM—Andrews, C. E. Lumber Co. (White Oak, White Pine & Hemlock Timber & Lumber)
 NEWBURG—Brook, Aaron (Saw Mill)
 NEWTOWN—Watson, A. W. & W. M. (Saw & Planing Mill)
 NORRISTOWN—Grater-Bodey Co. (Planing Mill)
 PAINTERSVILLE—Goss, W. H. & Bro. (Saw Mill)
 PANIC—North, H. K. (Saw Mill)
 PARNASSUS—Logan, J. W. & Sons (Lumber & Planing Mills)
 PENNSYLVANIA FURNACE—Brown, A. M. (Saw Mill)
 PERKASIE—Benner, A. S. (Saw Mill)
 PHILADELPHIA—Anderson & Slonaker, Del. av c Poplar
 *Betts, Chas. M. & Co. (Pine, Cypress & Shingles). Real Est. Trust Co. bldg
 *Blauvelt, W. S. & Co., 4106 York rd
 *Brnner, Owen M. Co. (White & Yellow Pine & Hardwood, Maple Flooring, Rift Yellow Pine, Flooring a Specialty). Land Title bldg
 *Buzby, C. M. & Sons, 626 Wash'n av
 *Cathrall, Eugent H. 102 Walnut
 *Cherry River Boom & Lbr. Co. (W. Va. Spruce, Hardwoods, Cypress & Pine). Land Title bldg
 *Colonial Lumber Co., Lippincott bldg
 *Coolbaugh, C. C. & Son (Pine & Hardwood). Head bldg
 *Coppock-Warner Lumber Co. (Yellow Pine). Land Title bldg
 *Craig, Geo. F. & Co. (White, Yellow & N. C. Pine, Spruce). Drexel bldg
 *Este, Chas. Co., Glenwood av nr 20th
 *Fritz, Wm. H. & Co., Crozer bldg
 Gardy, Wm. R. (Yellow Pine Flooring). Land Title bldg
 *Garman, A. St. Clair, 2050 N 8th
 *Geissel & Richardson, Ridge av c Master
 *Gillingham, Frank C. & Son Co., Norris n Richmond
 *Hallowell, Eli B. & Co. (Hardwood, Pine & Cypress Lumber). Harrison bldg
 *Hammer, Thos. B., Girard bldg
 *Holloway, J. N. & Co. (Hemlock, Hardwoods & N. C. Pine). Arcade bldg
 *Janney, Jos. W., 1157 Beach
 *Kay, Robt. G. (W. Va. Spruce, also Pine & Hemlock). Girard bldg
 *Kent, J. S. Co. (All Pine, Spruce & Shingles). Harrison bldg
 *Ketcham, Howard, 1166 N 3d
 *Kirby & Hawkins (White & N. C. Pine. Hardwood & Ties). Arcade
 *Kugler, Geo. W. & Sons, 921 New Market
 *Little, Jno. J., Land Title bldg
 *Little River Lumber Co., Girard bldg
 *Lloyd, Sam'l & Co., Perry bldg
 *Lloyd, Wm. M. Co. (Ltd.), Ridge av c N 29th
 *Lukens Bros. (Pine, Spruce, Hardwood & Shingles). 809 N Delaware av
 *Lukens, Jesse & Co., 3400 N 6th
 *McIlvain, J. Gibson & Co. (Hardwood a Specialty). S 58th c Woodland
 *Malone, Watson & Sons, Pier 44, N Wharves
 *Mans, H. H. & Co. (N. C. Yellow Pine, Shingles, Lath, Cypress, R. R. Ties, Poles, etc.). 416 Walnut
 *Miller & Miller Lumber Co. (Spruce & Hardwood). Land Title bldg
 *Nass, Geo. & Son, N Broad & Vine
 *Otter Creek Broom & Lumber Co. (Hemlock). Witherspoon bldg
 *Pamlico Lumber Co. (N. C. Pine). Land Title bldg
 *Peart, Nields & McCormick Co., Harrison
 *Pennell, Edmund, Penna bldg
 *Producers' Lumber Co. (Yellow Pine). Land Title bldg
 *Provident Lumber Co., Arcade bldg

*Rawson, Wm. L., Mutual Life bldg
 *Rice, Thos. B. & Sons Co. (White Pine & Hemlock Lumber), Millin St. Wharf Delaware River
 *Roper, Jno. L. Lumber Co. (N. C. Pine & Cedar Shingles), Girard bldg
 *Rumbarger, J. L. Lumber Co. (Red Oak, Cherry, Spruce & Hemlock), Harrison bldg
 *Schodfeld Bros. (White Pine, Spruce, Hemlock, etc.), Penna. bldg
 *Shearer, Sam'l H. & Son, Crozer bldg
 *Shelp, Henry H. Mfg. Co. (Cigar Box Lumber), 529 Columbia
 *Smith, F. A. (Yellow Pine), 30th & Spruce
 *Souder, E. A. & Co. (Pine & Cypress), Girard Bldg.
 *Spiegle, Geo. M. & Co. (Somerset c N. 18th
 *Stokes Bros. Co., 30th, below Chestnut
 *Strong, Jas. & Co. (Hemlock, Poplar, Oak, White Pine & Chestnut), Real Estate Trust Co. Bldg.
 *Talley, Thos. J. (Piling, Hemlock, Pine, Spruce & Oak Bill Stuff), Land Title Bldg.
 *Ternau & White, 2728 N Broad
 *Thompson, Lewis & Co. (R. R. Ties & Posts), Broad c Spring Garden
 *Vrooman, S. B. Co. (Ltd.), (Yellow Pine & Mahogany), 1133 Beach
 *Warner, Geo., Drexel Bldg.
 *Weitzel, P. Elmer & Bros., 3108 Gtn. av
 *Wheeler, R. B. & Co., Crozer Bldg.
 *Whitmer, Wm. & Sons (Inc.), (Hardwood, White Pine & Spruce), Girard Bldg.
 *Williams, Alex. O., 534 Berks
 *Williams, J. R. & Co., Arcade Bldg.
 *Williams & Van Roden (Ash, Poplar & Oak), 1345 Arch
 *Wistar Underhill, Real Estate Trust Co. bldg
 *Woddrop & Welch Wood Co., Betz bldg
 PINE GROVE—*Boyer, Mahlon H. (Lumber & Fegeley, Morris (Saw Mill) Saw Mill)
 PITTSBURG—*American Lumber & Mfg. Co. (Timbers, Lumber, Glazed Factory Sash, Factory Mill Work, etc.), 209 9th
 *Babcock, E. V. & Co. (Hemlock, White & Yellow Pine & Maple Flooring, Hardwood & Shingles), Frick Bldg.
 *Curl, H. V. Lumber Co., Park bldg
 *Curtis & Yale Co. (Hardwood Flooring, Basswood Ceiling & Siding, Pine Dimensions, Shingles, etc.), Arrott bldg
 *Flint, Erving & Storer (White & Yellow Pine, Oak, Poplar & Hemlock, White Pine Lath, Red Cedar, Pine Cypress & Hemlock Shingles), Farmers' Bank Bldg.
 *Forest Lumber Co., Diamond Bank bldg
 *Furnace Run Saw Mill & Lumber Co. (White Pine, Hardwood, Bridge Timbers, Car Stuff, Telegraph Poles & Street R. R. Ties), Curry bldg
 *Gillespie, D. L. & Co. (Pitch Pine, etc.), 541 Wood
 *Hastings, J. M. Lumber Co. (Yellow Pine), 541 Wood
 *Interior Lumber Co., Keenan bldg
 *Keystone Lumber Co., 723 2d av
 *Linehan Lumber Co., Farmers' Bank Bldg.
 *McIlvain, J. B. & Co., House Bldg.
 *McAd & Speer Co. (Wholesale Lumber, Lath, Shingles, R. R. Ties, Bridge Timbers, etc.), Park bldg
 *Mitchell, W. I., 339 5th av
 *Munhall, R. J. Lumber Co., S. 22d & Whar-ton
 *Nicola Lumber Co. (Red Cedar Shingles, Gum, Cottonwood, Hardwoods, Maple Flooring, etc.), Farmers' Bank bldg
 *Noble, John H., Union Bank bldg
 *Satler L. L. Lumber Co., Bessemer Bldg.
 *Schuette, Wm. & Co. (Inc.), Machesney bldg
 *Terhune, W. E. & Co. (White & Yellow Pine & Hemlock), House bldg
 *Thompson, Dwight, House Bldg.
 *West Virginia Lumber Co., House bldg
 *Wheeler, J. R. & Co. (Pattern, Templet, Flask & Tank Lumber, Roofing & Furring Strips, Yellow Poplar for Carriage & Piano Mfrs.), Bergen bldg
 *Willson Bros. Lumber, Lath & Shingles, Farmers' Bank Bldg
 PITTSVILLE—Shepherd, Frank
 POCOPSON—Denton, Joseph S. (Saw Mill)
 POND HILL—Boyd, Morris (Saw Mill)
 POTTSTOWN—Healey, J. A. & Bro.
 Snyder, H. J.
 POTTSVILLE—Beecher & Barr (Mine Lumber, etc.)
 Beecher & Boyer (Mine Timber)
 READING—Anchor Bending Works (Saw Mill)
 Bnch Bros., 200 N. 6th
 Central Lumber Co., 234 Walnut
 *Lance, Geo. F. (Walnut, Cherry, Shingles, etc.), 3d c. Buttonwood
 *Thalheimer, A. Mfg. Co., 141 Cedar
 REXIS—*Vinton Lumber Co. (Ltd.), (Hemlock)
 RICKETS—*Trexler-Terrell Lumber Co. (Hemlock, Spruce, etc.)

RIDGWAY—*Hyde, W. H. & Co.
 *Hyde & Thayer
 Murphy Dry Kiln Co. (Lumber)
 Thayer, H. S.
 ROCKWOOD—*Barron Bros.
 Wolf, Penrose (White Oak, etc.)
 ROYERSFORD—Bush Bros. (Planing Mills)
 ST. CLAIR—*Reichley Bros. (Mine Timber)
 ST. MARYS—*Kaul, J. & A.
 *Kaul & Hall Lumber Co.
 *Portland Lumber Co.
 SCRANTON—*Ansley Lumber Mfg. Co. (Shingles, Flooring, etc.), 801 Scranton
 *Cherry River Boom & Lumber Co., Board of Trade Bldg.
 *Davenport, John D. & Co., Board of Trade bldg
 *Lackawanna Lumber Co. (Hemlock & Hardwood), Board of Trade Bldg.
 *Newman, J. J. Lumber Co., Board of Trade Bldg.
 *Price & Howarth, 1001 N. Wash'n av.
 *Washburn, Williams & Co., 119 Meriden
 SHAMOKIN—*Kulp Lumber Co.
 *Shamokin Lumber & Mfg. Co.
 SHIPPENSBURG—Burns, Harry (Saw Mill)
 SOUDERTON—*Souder, Wm. (Saw Mill)
 SPRING MILLS—*Finkel, A. N. (White Oak & Pine)
 TAMAQUA—Zehner, Jacob (Saw Mill)
 TIDIOUTE—*Hunter, L. L. (Est. of Stillman, J. A. (Saw Mill)
 TIONESTA—*Foreman, H. M. (Lumber & Ties)
 *Gaston, G. G. (Lumber & Saw Mill)
 *Kelly, A. B. (Lumber)
 *Landers & Wyman (Lumber)
 *Robinson, G. W. & Son (Planing Mill)
 TOWANDA—Ellenberger, S. B.
 Ellenberger & Yeager
 TYRONE—*Beyer, F. D. & Co. (Saw & Planing Mill)
 URSINA—*Davis, J. B. & Sons (White Oak, Poplar, etc.)
 *Van Sickel, E. Co. (not inc.) (White Oak, etc.)
 WARREN—*Rogers Lumber Co. (Hemlock, Pine, Hardwood Flooring, Mouldings, Lath, Shingles, House Finish, etc.)
 *West, J. H. Lumber Co.
 *Wetmore, L. D. Co.
 WILLIAMSPORT—*Bowman, Forseman Co. (Hemlock, etc.)
 *Breon Lumber Co. (Hardwood, Hemlock & White Pine Boxes, Crates, etc.)
 *Brown, Clarke & Howe (Lumber, Lath, etc.)
 *Central Penna. Lumber Co. (Paling, etc.)
 *Coleman, John (Hemlock, etc.)
 Deemer, Elias & Co.
 *Emery Lumber & Coal Co. (Hemlock, etc.)
 *Hall, John L. (Long, Large Bills)
 *Kavanaugh, Daniel
 *Righter, Joseph C. (White Pine & Lumber, etc.)
 *Sones, C. W.
 *Williamsport Planing Mill Co.
 WOODBURY—Frederick, Adam (Saw Mill)
 WYALUSING—*Welles, M. H. & G. H. Lumber Co.
 YORK—*Billmeyer & Small Co. (Hemlock, White Pine & Oak)

RHODE ISLAND.

PROVIDENCE—*Angell, H. M., 49 Westminster
 *Crittenden Lumber Co., 32 Westminster
 *Gage, L. H. Lumber Co. (Hardwood), 32 Westminster
 *Kille & Morgan, 15 Westminster
 *Potter, J. A. & Co. (Southern Pine, etc.), ft of Cray
 WASHINGTON—Hopkins, Clinton (Saw Mill)

SOUTH CAROLINA.

ALCOLU—*Alderman, D. W. & Sons Co.
 ALLENDALE—Bryan Bros. (Saw Mill)
 BATESBURG—*Batesburg Lumber Co.
 BELLS—Caldwell, T. H. (Saw Mill)
 BOWYER—McCoy, A. E. (Saw Mill)
 BUCKSPORT—*Richardson Cypress Lumber & Shingle Co.
 CHAPLIN—Robinson, C. P. (Saw Mill)
 CHARLESTON—*Anderson Lumber Co. (Lumber, Ties and Shingles)
 *Barton, A. J. (Planing Mill, etc.)
 *Burton, E. P. Lumber Co.
 *Cook, W. P. & Co. (Ties, etc.)
 *Halsey Lumber Co.
 Simmons Benj. I. (Lumber, Timber, Shingles, Yellow Pine Lumber, etc.)
 COTTAGEVILLE—Ackerman, C. K. & Co. (Saw Ackerman, J. D. & Bro. (Saw Mill) Mill)
 DOVESVILLE—*Massie Lumber Co.
 Young, W. D. (Saw Mill)
 EFFINGHAM—*Dorgan Lumber Co. (Saw Mill)
 EHRHARDT—Ehrhardt, C. & Sons (Saw Mill)
 ELLENTON—Savannah Valley Lumber Co. (Saw Mill)
 FERGUSON—*Santee River Cypress Lumber Co. (Cypress, Hardwoods, Ash, Gum, Cottonwood, Pine, Shingles, Lath, Mouldings, etc.)

GEORGETOWN—*Atlantic Coast Lumber Co.
 *Gardner & Lacey Lumber Co.
 GREENVILLE—*Mallard, E. G. & Co. (Yellow Pine)
 HAMPTON—*Hampton & Branchville Ry. & Lumber Co.
 HONEY HILL—Henderson, Wm. (Saw Mill)
 KINGVILLE—Trumble, Edwin (Saw Mill)
 KINGSVILLE—Trumble, Edwin (Saw Mill)
 LEESVILLE—Barr, C. D. (Saw Mill)
 LORENA—Shiry, Geo. C. (Saw Mill)
 LORIS—*Bryant, J. C. Co.
 LUMBER—*Williams & McKelthan Lumber Co. (Lumber & Saw Mills)
 McBEE—Ingram, J. D. (Shingle Mill)
 McCLELLANVILLE—Leland, H. G. (Saw Mill)
 McCOLL—McLaurin, W. B. (Saw Mill)
 MARS BLUFF—Ranklin, W. L. Lumber Co. (Saw Mill)
 PINEWOOD—Broughton, N. L. (Saw Mill)
 PROSPERITY—*Hunter & Sancer (Lumber & Saw Mill)
 RIDGEVILLE—Thrower, D. E. (Saw Mill)
 ROWESVILLE—Blake, J. H. (Saw Mill)
 SENECA—Hamilton, W. O. (Saw Mill)
 SPRINGFIELD—Rice & Holman (Saw Mill)
 SWANSEA—Rast, W. B. (Saw Mill)
 TROY—Banks & Cheatham
 UNION—Bailey Lumber & Mfg. Co.
 WEST UNION—Brown Lumber Co. (Saw Mill)
 Shackley, J. C. (Saw Mill)

TENNESSEE.

BIG SANDY—Rauscher, E. W. (Staves)
 BRISTOL—*Bryan Lumber Co. (Hardwood)
 *Morton, Lewis & Wiley Lbr. Co.
 *Stone-Huling Lbr. Co.
 *Tug River Lumber Co.
 Wilkinson, Jas. A.
 CHATTANOOGA—*Blair, F. W. (Poplar, Oak, Ash, etc.)
 *Card, J. M. Lumber Co. (Hardwoods & Yellow Pine)
 *Central Mfg. Co. (Band Sawed Poplar, Pine, etc.)
 *Chattanooga Lumber Co.
 *East Tennessee Lumber Mfg. Co.
 *Loomis & Hart Mfg. Co. (Saw & Planing Mills)
 *Snodgrass & Field.
 CLIFTON—Crain Lumber Co.
 COVINGTON—Shelton & Co.
 CRANDULL—Faulkner Lumber Co.
 HARRIMAN—Dame Mantel Co. (Quartered Oak & Curly Birch, etc.)
 JACKSON—*Coleman, W. H. Co. (Tight Barrel Circled Headings, etc.)
 *Gardner, O. G. Lumber Co. (Inc.) (Hardwoods, Timbers, Dimension Stuff, etc.)
 JOHNSON CITY—*Buck & Snodgrass Lumber Co. (Hardwood)
 KNOXVILLE—*Michaels, T. M. (Saw Mill & Lumber)
 *Rose, D. M. & Co.
 *Ross Lumber Co.
 *Vestal Lumber & Mfg. Co. (Tennessee Red Cedar, Band Sawed)
 LEWISBURG—*Houston & Liggett (Red Cedar Lumber, Taper Sawed Posts, Flooring, Telegraph & Telephone Poles)
 LOUDON—Ward, A. W.
 MEMPHIS—*Anderson-Tully Co. (Box Shooks, etc.), N 2d & I. C. R. R.
 *Arthur Hardwood Flooring Co. (Flooring)
 *Bennett Hardwood Lumber Co. (Southern Hardwoods, Oak, Ash, Gum, etc.)
 *Blanton-Thurman Co. (Yellow-Miss. Cypress), Randolph bldg
 *Chickasaw Cooperaage Co. (Cooperaage Materials, etc.)
 *Cole Mfg. Co., 27 Hernando
 Crenshaw & Cathey
 *Crittenden Lumber Co.
 *Darnell, R. J. (Inc.) (Hardwoods)
 *Darnell-Love Lumber Co.
 *Darnell-Taenzler Lumber Co. (Hardwoods)
 *Dickson, J. W. Co. (Oak, Ash, Gum, Cottonwoods, etc.), Wolf River & I. C. R. R. Bridge
 *Friedel, P. R. & Co. (Long Leaf Yellow Pine & Oak)
 *Gage, L. H. Lumber Co., So. Ex. bldg
 *Gladden, C. S.
 *Goodlander-Robertson Lumber Co. (Southern, All Kinds)
 *Holmes, J. A. Lumber Co., I. C. R. R. n Jordan, J. P. & Co., 353 2d Randolph rd
 *Lamb-Fish Lumber Co. (Band Sawed Oak, Gum, Cypress, etc.)
 *Major, S. C. Lumber Co. (Southern Hardwoods)
 Memphis Stave Mfg. Co. (Slack Barrel Staves)
 *Meredith, J. P. Cedar Co. (Red Cedar, Piling, Poles & Posts), Equitable bldg
 *Moore & McFerrer (Hardwood), Henry
 *Russe & Burgess (Hardwood, Plain & Quartered Oak, Satin Walnut, Poplar, Tupelo, Gum, Bay Poplar), Randolph rd
 *Smith, W. E. Lumber Co. (Hardwood), 1406 Tenn. Trust bldg

*Sondheimer, E. Co. (Gum, Cypress, Cottonwood, Ash, Elm, Poplar, Sycamore, etc.)
 §Stark, Jas. E. & Co. (Main & Quarter Sawed White & Red Oak, etc.)
 Tennessee Lumber Co., 41 Madison
 *Three States Lumber Co. (Hardwood), 1406 Tenn. Trust bldg
 *Thompson, J. W. Lumber Co. (Hardwood), Oak, Ash, Poplar, Cypress, etc.), Randolph rd & I. C. R. R.
 *Williams & Co. (Poplar & Oak), 371 2d
 NASHVILLE—*Davidson, Hicks & Greene Co.
 *Hayes, A. L. Co. (Lumber & Tight Barrel Staves, etc.)
 *Indiana Lumber Co. (Hardwood)
 *Lieberman, Loveman & O'Brien
 *Love, Boyd & Co. (Oak, Ash, Poplar, Chestnut, Sycamore, Hickory, Rough & Dressed)
 *Nashville Tie & Cedar Co. (Cross Ties & Cedar Pillus)
 *Nashville Hardwood Flooring Co.
 *Prewitt, Spurr & Co. (Hardwood)
 *Ransom, John B. & Co. (Rough & Dressed Red Cedar, Yellow Poplar, Walnut, Ash, Oak & Red Cedar Flooring)
 NEW RIVER—*New River Lumber Co. (Hardwood)
 SOUTH PITTSBURG—Haskew Lumber Co. (Saw Mill)
 SPARTA—*Tennessee Stave & Lumber Co.
 TIGER TAIL—Tiger Tail Mill & Land Co. (Cottonwood, Poplar, Gum & Oak)
 WAVERLY—*Lucas Land & Lumber Co. (Lumber & Planing Mill)

TEXAS.

AVINGER—Rhyne, A. M. & Co. (Saw Mill)
 BEAUMONT—*Industrial Lumber Co. (L. L. Yellow Pine)
 *Kelth Lumber Co. (Yellow Pine)
 *Nona Mills Co. (Yellow Pine)
 *Sablne Train Co. (Yellow Pine)
 CALL—Kirby Lumber Co.
 CAMDEN—*Carter, W. T. & Bro. (Yellow Pine)
 DALLAS—*Clark & Boise Lumber Co. (Yellow Pine)
 *Conway, Craig Lumber Co. (Lumber & Shingles)
 *Craven Lumber Co. (Yellow Pine Lumber & Cypress Shingles)
 *Godley, R. B. Lumber Co.
 §O'Neil, W. H.
 DIBOLL—*Southern Pine Lumber Co. (Yellow Pine)
 ELMINA—*Walker County Lumber Co. (Yellow Pine)
 FORT WORTH—§Cowley-Foster Lumber Co.
 *Ford & Isbell Lumber Co.
 §Reynolds-Hanna Lumber Co.
 GALVESTON—*Miller & Vidor Lumber Co. (Yellow Pine)
 *Moore & Goodman (Lumber, Lath & Shingles)
 §Sachs, Hugo (Yellow Pine, Cypress Lumber & Shingles)
 §Wilson, D. M. & Co. (Piling & R. R. Material)
 GILMER—*Commercial Lumber Co. (Yellow Pine, Lumber & Shingles)
 GROVETON—*Trinity County Lumber Co. (Yellow Pine)
 HAMPTON—*Fleming, J. B. Lumber Co. (Band Sawed, L. L. Yellow Pine)
 HOUSTON—*Bender, C. & Son
 *Bering Mfg. Co. (White & Yellow Pine, Cypress, Mouldings & Exterior Finish)
 *Big Tree Lumber Co. (Yellow Pine Lumber & Red Cedar Shingles)
 §Burkitt & Barnes (Lumber, Ties & Timber)
 §Burton Lumber Co. (Mouldings, Shingles, Cedar & Cypress Posts, etc.)
 *Carter Lumber Co. (Yellow Pine)
 §Central Lumber Co. (L. L. Yellow Pine, La. Red Cypress, etc.)
 *Continental Lumber & Tie Co. (Yellow Pine, Cypress, Shingles, etc.)
 *Cummings, C. R. & Co. (Exporters, Hardwood)
 §Fall, H. B.
 §Harrell, Ed. H. Lumber Co. (L. L. Yellow Pine, La. & Cypress Lumber, Interior Finishing, etc.)
 §Hill, J. C. Lumber Co. (Lumber & Shingles)
 *Hulse, Henry (Lath, Shingles, Mouldings, Ceilings, etc.)
 *Houston Co-Operative Mfg. Co.
 *Norris, W. H. Lumber Co. (L. & S. Leaf & Yellow Pine Lumber & "Gilbert's" Shingles)
 *Swinford, S. T. Co. (Yellow Pine)
 *Texas & Louisiana Lumber Co. (Yellow Pine & Red Cypress Lumber, Lath, Pickets, Posts, Timbers, Ties, etc.)
 *Thompson-Tucker Lumber Co. (Yellow Pine)
 *Trinity River Lumber Co. (L. & S. Leaf Pine, Lumber & "Gilbert's" Shingles)

*Ware, Wm. Lumber Co. (L. L. Pine Lumber, Interior Finish, Flooring, Fencing, etc.)
 JEFFERSON—*Torrans Mfg. Co. (Yellow Pine)
 KELTYS—*Angelina County Lumber Co.
 KENNARD—Louisiana & Texas Lumber Co.
 LONGVIEW—*Brown, R. G. (Yellow Pine)
 *Castleberry & Flewellen (Yellow Pine)
 LODWICK—*Lodwick Lumber Co. (Yellow Pine)
 LUFKIN—*Lufkin Land & Lumber Co. (Yellow Pine)
 NACOGDOCHES—*Hayward Lumber Co. (Yellow Pine)
 Naogdoches Crate & Lumber Co.
 OLIVE—*Olive-Sternberg (Yellow Pine)
 ORANGE—*Gilmer, A. (Est. of) (Yellow Pine)
 *Litcher & Moore Lumber Co. (Yellow Pine)
 *Miller Link Lumber Co.
 *Morgan, Robt., Sr. (Yellow Pine)
 *Orange Lumber Co. (Yellow Pine)
 SAN ANTONIO—*Vaughn Lumber Co. (Yellow Pine)
 TENAHA—Parker, H. C. & Co. (Saw Mill)
 TEXARKANA—*Buchanan, Wm. (Yellow Pine)
 *Southern Pine Lumber Co. (Yellow Pine)
 TRINITY—§Peyton, John B.
 *Thompson, J. M. Lumber Co.
 VOTII—Kelth Lumber Co. (Yellow Pine)
 WAUKEGAN—*Keystone Mills Co. (Yellow Pine)
 WESTVILLE—*West Lumber Co. (Yellow Pine)
 WILLARD—*Thompson & Tucker Lumber Co. (Yellow Pine)

UTAH.

PROVO—*Ward, E. J. & Sons (Lumber, Lath, Shingles, etc.)

VERMONT.

BARTON LANDING—*Chandler, F. L. Co.
 *Skinner, French & Co.
 BENSON—Fowler, J. M. (Saw Mill)
 BETHEL—Weston, Ephr. M.
 BRATTLEBORO—*Hadden & Martin (Wood Mantels, Stair Finish, Boxes, Interior Finishing)
 Johnson, Chas. C. (Saw Mill)
 BRISTOL—Latrop, Noah (Saw Mill)
 BURLINGTON—*Booth, J. R. (Lumber & House Finish)
 §Crane, W. & D. G. (also Packing Boxes)
 Robinson-Edwards Lumber Co. (Pine & Hardwood, Lath, Shingles & Flooring)
 *Shepard & Morse Lumber Co. (Canadian & Western Pine)
 CHELSEA—Goodwin & Davis (Saw Mill)
 CUTTINGSVILLE—Jones, D. G. (Saw Mill)
 DANBY—Ridson, D. C. & W. I. (Saw Mill)
 EAST ARLINGTON—Judson Mfg. Co.
 EAST BARNET—Roy Bros. (Saw Mill)
 EAST DUMMERSTON—Crosby, F. F. (Saw Mill)
 EAST RANDOLPH—Camp, D. J. (Saw Mill)
 ESSEX JUNCTION—Brownell, S. A. & Co. (Saw Mill)
 FAIRLEE—Perkins, S. W. (Saw Mill)
 FOREST DALE—Churchill, Geo. H. (Saw Mill)
 GLEN—Leonard, W. C. (Saw Mill)
 GREEN RIVER—Stowe, H. S. (Saw Mill)
 GROTON—Ricker Bros. (Saw Mill)
 HARDWICK—Sawyer, C. M. (Saw Mill)
 HARTFORD—Pease, Horace C.
 ISLAND POND—*Fitzgerald Land & Lbr. Co.
 JOHNSON—Parker & Stearns (Saw Mill)
 LINCOLN—Morgan, A. T. (Saw Mill)
 LONDONDERRY—Walt, Ch. S. (Saw Mill)
 MONTPELIER—Gibson Co. (Saw Mill)
 Richardson, Orville H. (Saw Mill)
 MORETOWN—*Ward, H. O.
 NORWICH—Sargent, E. P. (Saw Mill)
 PEACHAM—Jennison, O. M. (Saw Mill)
 PERU—*Hapgood, J. J. & Co.
 RANDOLPH—Buss, B. G. (Saw Mill)
 Mareott & Hayes
 RAWSONVILLE—Bier, Fred D. (Saw Mill)
 RIPTON—Huntley, W. S. (Saw Mill)
 RUTLAND—*Bissell Bros.
 Chaffee, F. Sons
 SHARON—*Preston, A. B. (Shingles & Lbr.)
 Sawyer, Otis C.
 SOUTH BARTON—Willoughby Wood & Lumber Co.
 SOUTH NEWFANE—Morse, J. F. (Saw Mill)
 TOWNSHEND—Willard, Chas. H. (Saw Mill)
 WAITSFIELD—Billings, Geo. N. (Saw Mill)
 Morlarty, W. & D. (Saw Mill)
 WARREN—Parker, Pliny (Saw Mill)
 WASHINGTON—Huntington, Chas. W. (Saw Mill)
 WEST BRATTLEBORO—Davis, Chas. H. (Planing Mill)
 Smith, Leslie (Planing Mill)
 WEST DUMMERSTON—Taft, John (Saw & Shingle Mill)
 WILLIAMSVILLE—Bingham, W. E. & Son
 Merrillfield, A. M. (Saw & Shingle Mill)
 VINOOSKI—White, Robt. J.
 WORCESTER—Camp, A. H. (Saw Mill)
 Ladd, C. M. (Saw Mill)

VIRGINIA.

ABINGDON—*Preston & Bradley
 ACHILLES—Rowe, B. A. & Son (Saw Mill)
 BELFIELD—*Pearl, Nields & McCormick Co.
 N. C. Pine, Box Shooks, Flooring, etc.)
 CHARLOTTESVILLE—*Charlottesville Lumber Co.
 *King Lumber Co.
 CLAREMONT—*Arrington, H. J. Co. (Hardwood)
 FRANKLIN—*Camp Mfg. Co. (N. C. Pine)
 JARRATT—*Trullitt-Viucet Co. (Lumber & Box Shooks)
 LYNCHBURG—§Adams Bros.-Paynes Co. (Pine & Hardwood)
 §Adams-Monroe Mfg. Co. (Millwork)
 §Massie & Pierce
 NORFOLK—*Angola Lumber Co.
 Baylor & Cake (Saw & Planing Mills)
 §Blake, Frank W.
 §Briggs, G. S. & Co. (Air Dried, Edge Stocks, Box Grades, etc.)
 §Bull, C. H. & Co. (N. C. Pine)
 §Crockett Lumber & Pile Co.
 §Dickson Lumber Co.
 *Duke & Smith (N. C. & Georgia Heart Pine)
 *Fosburgh Lumber Co. (Kiln Dried North Carolina Pine, Rough & Dressed)
 §Freeman, E. B. (N. C. Pine Boards)
 §Johnson, Charles R.
 *Littleton Lumber Co. (N. C. Pine)
 §McCallough, Frank W. (Large Timber, etc.)
 §McKann, M. & Co. (Inc.)
 §Norfolk Hardwood Co., 63 Haddington bldg
 §Reed Bros. & Co. (Hardwood)
 *Richmond Cedar Works
 *Roanoke, R. R. & Lumber Co. (N. C. Pine)
 §Robertson, W. W. & Co.
 §Roper, John L. Lumber Co. (N. C. Pine, Flooring, Ceiling, etc.)
 *Southern Pine Timber Co.
 §Tilley, W. M. & Co. (Saw & Planing Mills)
 §Trant, John H., Jr., Sanford bldg
 §Virginia-Carolina Tie & Wood Co.
 Watkins, E. A. & Bros. (Saw & Planing Mills)
 *West Lumber Co.
 §Wilson, Wood & Lumber Co.
 PENNINGTON GAP—*Pennington Lumber Co. (N. C. Pine)
 PORTSMOUTH—§Hart, Jno. N. Lumber Co. (Saw & Planing Mill)
 *Phillips & Mahoney (Saw & Planing Mill)
 RICHMOND—§Ellington & Guy (Yellow & N. C. Pine), 200 S 9th
 Francis, W. R. & Bros. (Saw & Planing Mill), 1206 Taylor
 §Gunn, F. G., 2211 E Main
 §Gunn, W. S. & Co., 1123 W Broad
 Hardwicke, Chas. W. & Co. (Saw & Planing Mill)
 Heppert, Jos. (Saw & Planing Mill), Graham & Catherine
 *Montague Mfg. Co. (Saw & Planing Mill)
 *Richmond Cedar Works (N-C Pine, Rough & Dressed, Band Sawed, Poplar, Cypress, Gum, etc.)
 Richmond Wood Working Co. (Saw & Planing Mill), 14 N 7th
 Siewers, Richard A. (Saw & Planing Mill), 604 W Canal
 §Sittinger-Carneal-Davis Co. (Saw & Planing Mill), Lombardy & Moore
 §Taliaferro & Co., 901 E Byrd
 §Woodward & Son (Yellow & White Pine, Hardwood of All Kinds, etc.), 330 S 9th
 SOUTH BOSTON—*Snow Lumber Co.
 SUFFOLK—*Cramer, Alfred B. (N. C. Pine) Gay Mfg. Co.
 TEMPERANCEVILLE—Jones, J. H. (Saw Mill)
 WEST POINT—Denmead Bros. (Saw Mill)
 §Richardson, R. E. (Lumber)
 WOODFORD—Bowie & Vaughan (Saw Mill)
 WOODSTOCK—French, M. V. (Saw Mill)
 Harris, I. H. (Saw Mill)
 WYTHEVILLE—Crowgey, R. H. (Saw Mill)

WASHINGTON.

ABERDEEN—*Aberdeen Lumber & Shingle Co. (Lumber & Shingles)
 *Aberdeen Mfg. Co. (Planing Mill)
 *American Mills Co. (Lumber & Shingles)
 Burrows, C. E. Lumber Co. (Saw Mill)
 *Wilson Bros. & Co. (Saw & Planing Mill)
 ACME—*Anderson, Nelson & Co. (Fir Lumber & Red Cedar Shingles)
 ANACORTES—Anacortes Lumber & Box Co.
 *Fidalgo Mill Co. (Shingles, etc.)
 *Vincent & Owen (Shingles, etc.)
 ARLINGTON—Brown & Kunze
 *Lincoln Shingle Co. (Shingles, etc.)
 *Vord Cedar Co. (Shingles, etc.)
 Williams, Chas.
 BALLARD—McLaughlin-Taylor Co.
 *Motor Shingle Co.
 *Seattle Cedar Lumber Mfg. Co. (Red Cedar Lumber & Shingles)
 *Stimson Mill Co. (Lbr., Lath & Shingles)

- *Sohy Mfg. Co. (Red Cedar Shingles)
 *Wiley-Schoemaker Co. (Shingles, etc.)
BELLINGHAM—*Bellingham Bay Lumber Co.
 *Bellingham Timber & Logging Co.
 *De Can, D. H. (Shingles)
 *Lake Whatcom Logging Co.
 *Larson Lumber Co.
 *Miller Bros. Shingle Mill Co.
 *Morrison Mill Co.
 *Pac coast Shingle Co.
 *Power, F. W. Co. (Shingles, etc.)
 *Stemens Lumber Co.
 *Standard Mfg. Co. (Shingles)
 *West Coast Timber Co.
 *Whitcom Fall Mills Co. (Saw Mill, etc.)
BIG LAKE—*Day Lumber Co. (Saw & Shingle Mills)
 *Kellogg Shingle Co. (Shingles, etc.)
BLAINE—*Blaine Shingle Co.
 *Eclipse Shingle Co.
 *Frie Mill Co. (Shingles)
 *Jenkus, H. L. Lumber Co. (Shingles, etc.)
 *Modern Shingle Mill
BLOCKHOUSE—*Shurtz & Sons (Saw Mill)
 *Woods Bros. (Saw Mill)
BOTHELL—*Oakville Shingle Co. (Shingles)
 *Co-Operative Shingle Co. (Shingles)
BRYANT—*Chapman, John
 *Larson, J. V.
 *Simson Mill Co.
BUCKLEY—*Defiance Lumber Co.
 *Puge Lumber Co. (Lumber & Shingles)
 *Valley Mill Co. (Lumber)
BUCODA—*Mutual Lumber Co. (Shingles, etc.)
BURLINGTON—*Ross, H. F. (Shingles, etc.)
 *Shaw-Cooper Shingle Co. (Shingles, etc.)
CAPE HORN—*McCrosky & Sons Lumber Co.
 *L. P.
CASTLE ROCK—*Robin & Son (Shingles)
CEDARHOME—*Cedarhome Mill (Saw & Shingle Mills)
CENTRALIA—*Centralla Shingle Mills
 *Foran Bros.
 *Lincoln Creek Lumber Co.
 *Martin, A. A. Lumber Co.
CHATTAROY—*Sexton, J. F. & Co.
CHEHALIS—*Chehalis Shingle & Lumber Co.
 (Cedar Posts & Shingles, etc.)
CHESAW—*Richter Bros.
CHRISTOPHER—*Meredith Lumber Co.
CLEARBROOK—*Clearbrook Lumber Co. (Saw, Shingle & Planing Mill)
 *Miller, M. H. & Sons Mill Co.
CLEAR LAKE—*Clear Lake Lumber Co.
CLE ELUM—*Miller & Short (Saw Mill)
COLFAX—*Potlatch Lumber Co. (Lumber & Planing Mill)
COLVILLE—*Wisner & Co. (Saw Mill)
CONCONULLY—*Bolin, W. C. (Saw Mill)
COSMOPOLIS—*Grays Harbor Commercial Co.
 (Spruce & Red Cedar Shingles, Fir Tanks, Cross ties, Poles, Dressed Lumber for interior Finish, Ceiling, Siding, Wainscoting, Mill Work, Box Shooks, Mixed Cars of Lumber & Shingles, etc.)
COUPEVILLE—*Island Mfg. Co. Saw & Shingle Mill
CRESTON—*Peasley, J. D. & Son (Saw Mill)
CUSTER—*Willett, M. J. (Shingles, etc.)
DEER PARK—*Standard Lumber Co. (Lumber, Lath & Shingles)
DEMING—*Alaska Shingle Co. (Shingles)
 *Dedman, M. L.
 *United Shingle Co. (Shingles)
DRYAD—*Lendinghans Bros. (Saw Mill)
DUNCAN—*Case, G. B.
DUNGENESS—*Fitzgerald, Chas.
EDGECOMBE—*Edgecombe Mill Co.
 *Hill-Wilson Shingle Co.
EDMONDS—*Brady Shingle Co.
 *Edmonds Shingle Co. (Shingles)
 *Mowat Lumber Co. (Shingles, etc.)
 *R. & A. Mill Co. (Shingles, etc.)
 *Weatherproof Shingle Co.
 *Yost, A. M. & Sons (Lumber & Shingles)
ERLICH—*Pingrey-Day Milling Co.
ELK—*Consolidated Lumber Co.
ELMA—*Cloquallum Shingle Co.
 *Servis & Hills Mill Co.
 *Vance Lumber Co. (Saw Mill)
 *White Star Lumber Co. (Saw Mill)
ENTIAT—*Gray, Geo. H. & Son (Saw Mill)
ENICLAW—*White River Lumber Co. (Saw Mill)
ETNA—*Harvey Mill Co.
EVERETT—*Blackman, C. A. (Shingles)
 *Cavalero Mill Co.
 *Clark-Niekerson Lumber Co.
 *Eclipse Mill Co. (Lumber & Shingles)
 *Everett Lumber Co.
 *Everett Shingle Co. (Shingles)
 *Ferry-Baker Lumber Co. (Shingles, etc.)
 *Hulbert Lumber Co. (Loggers)
 *Hvena Mill Co. (Shingles, etc.)
 *McWilliams & Henry
 *Mitchell Lumber Co.
 *Northwest Mfg. Co. (Shingles, etc.)
 *Robinson Mfg. Co. (Shingles)
 *Selfert, H. O. & Co. (Shingle Mill)
 *Weyerbauser Lumber Co. (Yellow Fir Lumber)
EVERSON—*Erb & Swaschka
 *Walker Shingle Co.
FAIRHAVEN—*Puget Sound Mills & Shingle Co. (Red Cedar Shingles & Lumber, Capacity 6,000,000 Shingles)
FALL CITY—*Fall City Lumber & Shingle Falls Mills Co. Mill (Shingles)
 *McCannon, A. (Shingles, etc.)
FERNDAL—*Clarkson Mill Co.
 *Nooksack River Mill Co. (Shingles)
FLORENCE—*Florence Shingle Co.
 *Hills, Jno. (Shingles)
GATE—*Gate City Lumber Co.
GETCHELL—*Eggert, E. (Shingles)
 *Springfield Shingle Co.
GOLDBAR—*Goldbar Lumber Co. (Saw & Planing Mill)
GOLDENDALE—*Klatt, W. C. (Saw & Planing Mill)
 *Klickitat Line Lumber Co.
GRAND MOUND—*Boyer, M. L.
GRANITE FALLS—*Chappell & Spithill Shingle Co. (Shingles)
 *Swartz, Joseph (Shingles)
HADLOCK—*Washington Mill Co.
HAMILTON—*Eagle Shingle Co. (Shingles)
 *Hightower Lumber Co. (Saw Mill)
 *Lyman Lumber Co.
HARRINGTON—*Harrington Milling Co.
HARTFORD—*Hartford Shingle Co. (Shingles)
 *Hartford Mfg. Co.
 *Heath Shingle Co. (Shingles, etc.)
 *Rucker Bros.
HOCKINSON—*Rawson, A. (Saw Mill)
HOMER VALLEY—*Comiter Watson Lumber Co.
HOQUAM—*Coats Shingle Co.
 *Eudressen, C. & Son (Shingles)
 *Lytle Logging & Mercantile Co. (Logging)
 *Northwestern Lumber Co. (Spruce, Fir & Cedar Shingles)
 *Polson Logging Co. (Loggers)
 *Wood, E. K. Lumber Co. (Fir, Spruce & Box Mfrs.)
INDEX—*Index Log & Lumber Co. (Saw Mill)
ISSAQUA—*Eastlake & Trandum (Saw Mill)
 *High Point Mill Co. (Shingles, etc.)
 *Vaughn, W. E. & Son (Saw & Planing Mill)
KALAMA—*Kalama Lumber Co.
KELSO—*Coweman Driving & Rafting Co. (Loggers)
 *Metcalf Shingle Co. (Shingles)
 *Washington Red Cedar Mill Co.
KIRTLAND—*Kirtland Shingle Co.
KNAPTON—*Simpson Lumber Co.
LACENTER—*Brothers, James W.
 *Oakdale Lumber Co.
 *Martin, Victor
 *Wilson, Thos.
LACEY—*Russell, Thos. N. (Shingles)
 *Union Lumber Co.
LAKE SIDE—*Shilms, A. L.
LAWRENCE—*Bridge Shingle Co.
 *Pinkney & Hoff
LEWISVILLE—*Bacens & Blaker
LITTLE—*Wisconsin Lumber Co.
LITTLE ROCK—*Viora Shingle Co.
LOOKOUT—*Butters & McLeod
LOON LAKE—*Holland-Horr Mill Co.
LYMAN—*Lyman Lumber Co.
 *Skagit Mill Co.
LYNDEN—*Heaton Bros. Co. (Shingles, etc.)
McCORMACK—*McCormack Lumber Co.
 *McMurray—Bass Lumber & Shingle Co.
MACHIAS—*Bolcom-Bartlett Mill Co. (Shingles)
 *McCullough, James (Shingles)
MALTBY—*Gray, A. V. (Saw & Shingle Mill)
MAPLE VALLEY—*Smith & Christman Co. (Fir Lumber & Red Cedar Shingles)
MARKHAM—*Markham Shingle Co.
MARYSVILLE—*Ebey Mill Co. (Shingles)
 *Harrington Shingle Co.
 *Marysville Mill Co.
 *Smith Mfg. Co. (Shingles)
 *Stimson Mill Co.
MILAN—*Spokane Lumber Co.
MONAHAN—*Allen & Nelson Mill Co. (Inc.) (Saw Mill, Lumber Mfrs., Piling, Loggers, Fir & Hemlock)
MONROE—*Johnson, John (Saw Mill)
 *Monroe Mill Co. (Shingles, etc.)
 *Wagner & Wilson
MONTBORNE—*Nelson & Neal Lbr. Co.
MONTESANO—*Clemens, Chas. H. (Loggers)
 *Wynoochee Lumber & Shingle Co.
MOUNTAINVIEW—*Lopas, J. & E. (Shingles)
MOUNT VERNON—*Cedarvale Lumber Co.
 *Little Mountain Shingle Co. (Shingles, etc.)
NAPAVINE—*Dittmar & Springsteen Lumber Co.
 *Hawkins, H. A. (Fir)
 *Napavine Lumber Co.
 *Pitche, H. (Saw Mill)
 *Somerville Bros.
NOOKSACK—*Gilles Mill & Mfg. Co.
NORMAN—*Landerdale, R. A. (Shingles)
NORTH BEND—*Tanner, L. B.
OOSTA—*Markham Shingle Co.
OLYMPIA—*Olympia Door Co. (Shingles, etc.)
 *Olympia Lumber Co. (Shingles)
 *Richardson, Harvey G. (Shingles)
ORILLA—*Orilla Lumber Co.
OSO—*Hydraulic Power Mill Co.
OSTRANDER—*Ostrander R'y & Timber Co.
 *E. ELL—*Yeomans, W. C.
PILCHUCK—*Parker, J. H.
POMEROY—*Potlatch Lumber Co. (Lumber & Planing Mill)
PORT ANGELES—*Eacreet Bros. (Shingles)
 *Filion Mill & Lumber Co.
PORT BLAKELEY—*Port Blakeley Mill Co. (Telegraph Arms, Lumber, etc.)
 *Walworth & Neville Mfg. Co. (Lumber & Planing Mill)
PORT CRESCENT—*Puget Sound Mills & Timber Co.
PORT DISCOVERY—*Lindstrom-Fisher Shingle Co.
PORT GAMBLE—*Pope & Tallot
PRAIRIE—*Cain, D. J. & Co. (Shingles)
 *Hoyt, J. M. & Co. (Shingles)
PRESTON—*Preston Mill Co. (Red Cedar Fir & Spruce Lumber & Red Cedar Shingles)
PUYALLUP—*Morse, F. W. Mfg. Co.
RAINIER—*Burman, H. A.
RAYMOND—*Willapo Lumber Co. (Shingles, etc.)
REDMOND—*Redmond Lumber Co. (Shingles)
RENTON—*Renton Mill Co. (Shingles, etc.)
SCOTIA—*Graham, Chas.
SEATTLE—*Arrow Lumber & Shingle Co. (Shingles, etc.)
 *Atlas Lumber & Shingle Co. (Fir, Red Cedar Lumber & Shingles, Alaska bldg)
 *Bennett, J. S. Lumber Co. (Shingles, etc.)
 *Bolcom, H. C. Lumber Co. (Red Cedar Shingles, Alaska Bldg)
 *Brace & Hergert Mill Co. (Saw Mills)
 *Bryant Lumber & Shingle Mill Co. (Lumber & Shingles)
 *Carstens & Charles (Inc.) (Lumber & Shingles)
 *Commercial Cedar Co. (Lumber & Shingles)
 *Great Western Lumber Co. (Shingles, etc.)
 *Herron Co. (R. R. Timbers, Fir & Car Materials)
 *Lake Washington Mill Co. (Fir Lumber, Shingles, Laths, Turned Posts, Picket & Scroll Work)
 *Moran Co. (Spruce, Cedar, Lumber, Spars & Piles)
 *Newell Shingle Co., Bradford & 7th av. S (Saw & Planing Mills & Shingles)
 *Nichols, C. H. Lumber Co. (White Pine)
 *Northwest Lumber & Shingle Co. (Shingles, etc.)
 *Old Oregon Mills (Shingles, etc.)
 *Pacific Fir Co. (Timber, Piling, Ties, Red Cedar, Shingles, etc.)
 *Pinkham Lumber Co.
 *Rellance Lumber Co.
 *Roy & Roy Mill Co. (Fir, Spruce & Red Cedar Lumber & Shingles)
 *Seattle Cedar Lumber Co. (Siding, Moulding, Columns, Newells & Shingles, etc.)
 *Seattle Lumber Co. (Fir Lumber, Lath & Red Cedar Shingles)
 *Standard Lumber & Shingle Co.
 *Stetson & Post Lumber Co. (Saw Mills)
 *Stimson Mill Co. (Lumber, Shingles & Saw Mills)
 *United States Lumber Co. (Shingles, etc.)
 *Wilson, Robert S. (Lumber & Red Cedar Shingles)
SEDRO WOOLEY—*Clark & Lennon (Shingles)
 *Grand Rapids Shingle Co. (Shingles, etc.)
 *Green Shingle Co. (Shingles & Loggers)
 *Shrewsbury, H. H.
SEGUIN—*Seguin Shingle & Lumber Co.
SHELTON—*Hunter-Eaton Co.
 *Simpson Logging Co.
 *Western Washington Logging Co.
SHERLOCK—*Card, A. L. (Shingles)
SILVER BEACH—*Jerns, N. (Shingles)
 *Matson & Anderson
 *Silver Beach Shingle Co.
SILVER LAKE—*Barnes, F. G. (Shingles)
SKYKOMISH—*Skykomish Lumber Co.
SNOHOMISH—*Advance Shingle Co.
 *Ford-Shaw Lumber Co. (Shingles, etc.)
 *Guhr Lumber Co.
 *Morgan Bros. Co. (Saw Mill)
 *Nonkirehen Bros. (Shingles, etc.)
 *Snohomish Lumber Co.
 *Williams T. H. & Co. (Shingles)
 *Wood & Iverson (Shingles)
SNOQUALMIE—*Gove, G. W.
SOUTH BEND—*Rutz & Son, F. J.
 *Cole Shingle Co.
 *Columbia Box & Lumber Co.
 *Kleeb Lumber Co.
 *South Bend Mills & Timber Co.
 *Willapa Logging Co.
SOUTH PRAIRIE—*Lucas Lumber Co. (Saw Mill)
 *Naylor Lumber Co. (Shingles, etc.)
SPOKANE—*Buckeye Lumber Co.
 *Holland-Horr Mill Co.

*Musser, Wm. Lumber & Mfg. Co. (Western White Pine Siding, Finisb, Factory Plank, Mouldings & Box Sbooks)
 Robbins, H. G.
 *Spokane Lumber Co.
 *Stack-Gibbs Lumber Co.
 *Yellow Pine Lumber Co.
STANWOOD—Becker Shingle Co.
 Kent Shingle Co.
 *Stanwood Lumber Co., (Shingles, etc.)
STARTUP—*Wallace Lumber & Mfg. Co.
STELLA—*Snider & Sons (Shingles)
SUMMIT—McDonald, R. R.
 *Smith, I. J. (Shingles)
SUMAS—*Gillis Mill & Mfg. Co. (Lumber)
 *Sumas Lumber Co. (Shingles, etc.)
TACOMA—*Adna Mill Co.
 *Danaher, C. D.
 *Defiance Lumber Co.
 *Dempsey Lumber Co.
 *Derickson & Co. (Saw & Shingle Mill)
 *Foster Lumber Co.
 *Gibbs, S. A. Co. (Lumber & Shingles)
 *Harding Lumber Co. (Shingles, etc.)
 *Hill Lumber Co. (Shingles, etc.)
 *Howell-Hill Mill Co. (Shingles, etc.)
 *McNeely, E. J. & Co. (Lumber & Shingles)
 *Metcalf Shingle Co. (Cedar Shingles)
 *Mineral Lake Lumber Co. (Shingles, etc.)
 *North End Lumber Co.
 *Pacific Nat'l Lumber Co. (Shingles, etc.)
 *Pngst Sound Timber Co.
 Robinson Lumber Agency
 *St. Paul & Tacoma Lumber Co. (Fir, Cedar, Lumber & Shingles)
 *Tacoma Mill Co. (Douglass Fir, Oregon Pine, Plank Timbers, Ship Plank, Flooring, Rustic Ceiling, Lath, Pickets, Staves, Spars, Piling, Red Cedar Shingles, etc.)
 *Washington Mfg. Co. (Shingles, etc.)
 *Wheeler, Osgood Co. (Red Cedar Doors, Ash, Blinds, Mouldings)
THORNWOOD—Cain, D. J. & Co. (Saw & Planing Mill)
TOLEDO—Badger Lumber Co.
TOLT—Tolt Mill Co.
UTSALADDY—*Puget Mill Co.
VALLEY—Dean Lumber & Fuel Co.
 *Kulzer, Jno. G.
VANCOUVER—Du Bois Lumber Co.
 *Pittcock-Leadbetter Lumber Co. (Saw Mill)
WALLA WALLA—*Whitehouse-Crawford Co.
WENATCHEE—*Wenatchee Lumber Co.
WEST BRANCH—Washington Mill Co. (Saw Mill)
WICKERSHAM—*Reichert, D. J., Lumber & Shingle Co.
 *Wickersham Shingle Co.
WINLOCK—Veness, J. A. (Saw Mill)
WOODENVILLE—*Grace Mill Co. (Shingles)

WEST VIRGINIA.

ASBURY—*Alderson, S. I. (Lumber)
BECKLEY—Calloway, C. M. (Saw Mill)
BERKLEY SPRINGS—Crossfield, Wm. (Saw Mill)
BLUEFIELD—*Georgia Lumber Co. (Saw & Planing Mill)
BUCKHANNON—*Alton Lumber Co. (Hardwood)
 Henry, J. L. Lumber Co.
 *Stockert, G. F. & Son
 *Stockert, T. L.
CAMDEN ON GAULEY—*Cherry River Boom & Lumber Co. (Hardwood)
CENTRAL CITY—Callaway, C. M. Lumber Co.
CHARLESTON—Boone Timber Co.
 *Charleston Lumber Co. (Saw & Planing Mill)
 *Courtney, D. G. (Poplar & Oak Lumber, R. R. Ties, Bill Stuff Light Cooperage Stock)
 *Donaldson Lumber Co.
 *Yellow Pine Lumber Co.
ELKINS—Cheat River Lumber Co.
 Elkins Pail & Lumber Co.
 Wildell Lumber Co.
GLEN JEAN—Hogg Lumber Co.
HAMBLETON—*Elk Lick Lumber Co.
 *Otter Creek Boom & Lumber Co. (Hemlock)
LOCK SEVEN—*Mohler Lumber Co. (Poplar, Oak, Walnut & Ash)
NICOLETTE—*Nicolette Lumber Co.
PARKERSBURG—Citizens' Lumber Co.
 *Everglade Cypress Lumber Co.
 *Jackson, J. M., Lumber Co.
 Parkersburg Mill Co.
 *Smith & Seaman (Hardwoods)
 Wilson, H. S. & Son
 Withers-Van Devender Co.
PICKENS—*Holly Lumber Co.
RALEIGH—*Raleigh Lumber Co. (Cut Timber)
RICHWOOD—Cherry River Boom & Lumber Co.
ST. ALBANS—*Bowman Lumber Co.
SATTES—*Knight Lumber Co. (Yellow Pine)
SUTTON—Bright, Amos
 Waggv, Henry
UPPERTRACT—Dahmer, C. E. & Bro. (Saw Mill)
WELCH—*Sudduth, E. H. Lumber Co. (Saw Mill)
WESTON—*Hinkle, S. & Co.
 Weston Lumber Co.

WHITE SULPHUR SPRINGS—*Huddleston, A. E. (White Pine, Saw & Planing Mill)
WILLIAMSON—Harris, W. A. Lumber Co. (Saw & Planing Mill)

WISCONSIN.

APPLETON—Appleton Lumber & Fuel Co.
 *Fountain Lumber Co. (Saw & Shingle Mill)
 *Jones, G. W. Lumber Co. (Hardwood)
ASHLAND—*Lake Superior Lumber & Box Co.
 *Schroeder, John Lumber Co.
 *Scott-Taylor Co.
ATHENS—*Athens Mfg. Co.
 *Braun Bros. & Co. (Lumber & Staves)
 *Rietbrock Land & Lumber Co.
BAILEYS HARBOR—*Pruter, Louis (Shingles)
BARRON—Interstate Lumber Co.
BAYFIELD—Bayfield Mill Co. (Saw Mill)
 Boutin, Frank, Sr. (Logging, etc.)
 *Wachsmith Lumber Co.
BELOIT—*Beloit Lumber Co.
BERLIN—Allen, C. W., Lumber Co.
 *Wilbur Lumber Co.
BIRNAMWOOD—Andrews & Roepke Lumber Co. (Saw Mill)
BLANCHARDVILLE—Blanchardville Lbr. Co.
BRILLION—Brillion Lumber Co.
BRUCE—*Beldenville Lumber Co. (Hardwood & Veneer)
CABLE—Rogan Bros. (Saw Mill)
CAZENOVIA—Bohn, E. A. (Saw Mill)
CEDERBURG—*Hilgen Mfg. Co. (Builders' Mill Work)
CHIPPEWA FALLS—Chippewa Lumber & Boom Co. (White Pine)
 Stanley, F. G. & C. A. Co. (Saw Mill).
COLEMAN—*Bolles, E. E. & Co.
CRANDON—Carpenter Bros. (Saw Mill)
 *Kleith & Hiles Lumber Co.
CUMBERLAND—*Beaver Dam Lumber Co.
DANCY—Altenberg & Stoddard (Saw Mill)
DRUMMOND—*Rust-Owen Lumber Co. (Cork, White Pine, Pattern, Box Materials, Beveled Siding & Factory Stock)
DUNBAR—*Girard Lumber Co. (Lumber, Lath, Shingles, Piling, Posts, Ties, etc.)
EAU CLAIRE—*Dells Lumber & Shingle Co.
 *Northwestern Lumber Co. (White Pine & Shav, Daniel Lumber Co. Basswood)
EDGERTON—*Heddles Lumber Co.
ELKHORN—*Elkhorn Lumber Co.
ELLSWORTH—Hines, Frank (Saw Mill)
 McLeod, John & Sons (Saw Mill)
ELMHURST—Nelson, B. F. (Saw Mill)
 *Wunderlach, George H.
FAIRCHILD—*Foster, N. C. Lumber Co.
FENWOOD—*Fenwood Lumber Co.
FOND DU LAC—*Moore & Galloway Lumber Co.
FORT ATKINSON—Wilcox Lumber Co.
 *Zenger-Hoffman Lumber Co.
GALESVILLE—*Farrand, I. S.
GRAND RAPIDS—*Arpin Hardwood Lbr. Co.
 *Arpin, John Lumber Co.
 *Kellogg Bros. Lumber Co.
 *Pigeon River Lumber Co.
GREEN BAY—*Diamond Lumber Co.
 Valentine-Clark Co. (Cedar Posts, etc.)
GRESHAM—Morgan, O. E. (Saw Mill)
GURNEY—*Somers-Timm Lumber Co. (Hardwood & Hemlock)
HALWAY—Liberty, H. A. (Saw Mill)
HARTFORD—*Dennison, Liver & Coerper
HAYWARD—*North Wisconsin Lumber & Mfg. Co. (White Pine)
HAWKINS—*Ellinson Lumber Co.
HAWTHORNE—Bonnell, W. H. (Saw Mill)
 *Duluth Log Co. (Shingles, Posts & Piles)
HAZELHURST—Yawkey, Bissell Lumber Co. (Box Shooks, Lumber & Egg Cases, Crates, etc.)
HORTONVILLE—Diestler Co. (Saw & Planing Mill)
HUDSON—Central Lumber Co.
INDEPENDENCE—*Sprecher & Schafer
INGRAM—*Ingram Lumber Co.
IOLA—Wipf, J. & C.
JANESVILLE—*Thoroughgood & Co. (Cigar Box Lumber)
KENOSHA—*Montgomery Lumber Co.
KEWAUNEE—*Duvall, Jos. & Co.
KIEL—*Lawn, J. B.
KIMBALL—*Kimball & Clark (Hemlock & Hardwood Lumber, White Cedar Shingles, Basswood & hemlock latb)
LAO DU FLAMBEAU—*Flambeau Lumber Co.
LA CROSSE—*Colman, C. L. Lumber Co. (Lumber, Shingles & Saw Mills)
 *Segelke & Kohlhaus Mfg. Co. (Sash, Doors & Mill Work)
LADYSMITH—Corbett, Robt. Lumber Co.
LAFARGE—*Lafarge Lumber Co. (Saw Mill)
LOST CREEK—*Harshman, F. L. (Saw Mill)
LOYAL—Christman, B. (Saw Mill)
 Graves, A. A. (Saw Mill)
McMILLAN—*McMillan, B. F. & Bro. (Hemlock, Pine & Hardwood)
MADISON—*Brittingham & Hixon Lumber Co.
 *Brittingham & Young Co. (Basswood, Birch, Soft Elm, Maple, White Pine)

MARINETTE—*Hamilton & Merryman Co. (Lumber & White Pine & White Cedar, Shingles, Lath, etc.)
 *Lieber & Noal Mfg. Co. (Shingles)
 Ludington, N. Co. (White & Norway Pine, Lath & Shingles & Saw Mill)
 *Merryman Mfg. Co. (Lumber, Lath & Shingles)
 Sawyer-Goodman Co. (Pine, Hemlock, Hardwood, Lath, Shingles, Beveled Siding, Posts, etc.)
 *Wright Bros. Co. (Cedar, Posts, Poles, Ties, Shingles, White Pine, etc.)
MASON—*White River Lumber Co.
MELLEN—*Foster, Latimer Lumber Co. (Saw & Planing Mill)
MENOMONIE—*Wilson-Weber Lumber Co.
MERRILL—*Anson-Hixon Sash & Door Co. (Mouldings, Interior Finish)
 *Gilkey & Anson Co. (Lumber, Lath, Shingles & Box Sbooks)
 *Langley & Alderson (Loggers)
 *Smith Hardwood Lumber Co.
 *Wright, H. W. Lumber Co.
MILWAUKEE—*Bergland, G. A., Matthews bldg
 *Cooper & Maxson Lumber Co. (Basswood Siding, Basswood Hemlock, White Pine & Birch Lumber, Cedar Poles, Posts & Shingles)
 Curtis & Yale Co. (Hardwood, Flooring, Basswood Ceiling & Siding, Pine Dimensions, Shingles, etc.), Loan & Trust Bldg
 Devere & Schloegel Lumber Co., 7th av c Park
 Forster Lumber Co., 428 Grand Av Park
 Hilty, M. Lumber Co. 1119 St. Paul av
 *Johnson Lumber Co. (Soft Cork Pine), 204 Grand av
 *Landeck Lumber Co. (Hardwoods, Basswood, etc.), 120 Wisconsin
 Milwaukee Lumber Co., 3002 Lisbon av
 *Noble, Geo. P. (Pine & Hardwood), Wells bldg
 *Rietbrock Land & Lbr. Co., 107 Wisconsin
 *Schroeder, John Lumber Co., ft of Walnut
 Simpson, E. B. & Co., 151 6th
 *Steinman Lumber Co. (Lumber, Lath & Shingles), Park & 8th av
 *Tegge Lumber Co. (Hardwood), 684 Park
 *Tibbits-Cameron Lumber Co.
 *Wilbur Lumber Co., Pabst bldg
MISHICOT—Rhodes, Aug. (Saw Mill)
 Schimmel, N. & Co. (Saw Mill)
MORRIS—Buckstaff-Sprague Lumber Co.
MOSINEE—Mosinee Log, Land & Lumber Co. (Saw Mill, Loggers, etc.)
NEW GLARUS—*New Glarus Lumber Co.
NEW LONDON—*Hatten Lumber Co. (Hardwood)
NEW RICHMOND—*Willow River Lumber Co.
 Niles-Johnson, J. M. (Saw Mill)
NORWALK—Walz, Geo. A. (Saw Mill)
OCONTO—*Holt Lumber Co. (Saw Mill)
ODANAH—*Stearns, J. S. Lumber Co. (White Pine)
ONTARIO—*Sandon, E. W.
OSHKOSH—*Fountain-Campbell Lumber Co.
 *Hollister, Amos & Co.
 Morgan Co. (White Pine, Idaho Pine, Basswood, Ash, Elm, Maple, Oak, Hemlock, etc.; Shingles, White Cedar, Red Cedar & Pine)
 *Morgan Lumber & Cedar Co.
 *Paine Lumber Co. (Mill Work)
 *Radford Bros. & Co. (Saw Mill, etc.)
 *Wagstaff, W. J. (Flooring, Finisb, Cedar Shingles, etc.)
 *Wall-Spalding Lumber Co.
OWEN—*Owen, John S. Lumber Co. (Pine & Hardwood)
PELLA—*Grosskopf, Fred. A. (Saw Mill)
PESHTIGO—*Constine, C. & Son (Lumber & Cedar)
 *Peshtigo Lumber Co. (Saw Mill)
PHILIPS—*Davis, John R. Lumber Co. (Pine & Hemlock, Hardwood, etc.)
PLATTEVILLE—*Eastman, M. Lumber Co.
POLAR—Polar Mfg. Co. (Saw Mill)
 Tyrell, G. & Son (Saw Mill)
RED CLIFF—*Red Cliff Lumber Co.
RHINELANDER—Brown Bros. Lumber Co.
 *Mason-Donaldson Lumber Co. (Hemlock & Hardwoods)
 *Queal, J. H. & Co.
 *Robbins Lumber Co. (Pine, Lumber, Lath & Shingles)
 *Stevens Lumber Co. (Saw Mill)
RIB FALLS—*Baeseman, C. H.
RIB LAKE—Mathe, J. & Co. (Saw Mill)
 Rib Lake Lumber Co.
RICE LAKE—*Rice Lake Lumber Co. (White Pine)
RICHLAND CENTER—*Krouskop, A. H. (Hardwood Lumber, Basswood, etc.)
SOANDINAVIA—Wroldstad, John O. (Saw Mill)
SCHLEISINGERVILLE—Klettli, John (Saw Mill)
SCHOFIELD—*Brooks & Ross Lumber Co. (Pine, Hemlock & Lath, Shingles, Pickets, etc.)
SEYMOUR—Miller & Piehl (Saw Mill)
SHEBOYGAN—Freyburg, C. B. (Lumber Co. Shingle Mills, etc.)
 *Wisconsin Timber & Land Co.

SOLDIERS' GROVE—Peterson, A. (Saw & Planing Mill)
STEVENS POINT—*Clifford Lumber Co.
 *Stevens Point Box Co. (Box Shooks)
 *Week, John, Lumber Co.
STILES—*Eldred, Anson Co.
STRATFORD—*Conner, R. Lumber Co.
STURGEON BAY—*Pankratz Lumber Co.
 *Washburn, N. S. & Co.
SUPERIOR—*Paine, Mark, Lumber Co.
 *Rogers & Ruger Lumber Co.
SURING—Wagner, M. (Saw Mill)
TAUS—Boehm, Joseph (Lumber & Shingles)
TAVERA—Ellsworth, M. D. & Co. (Saw Mill)
THORP—Boardman, E. A. & Sons (Saw Mill)
 Bobb, Peter E. & Co. (Saw Mill)
 *Nye, Lusk & Hudson Co. (Pine & Hardwood)
TIGERTON—Badger Lumber Co. (Saw Mill)
 *Tigerton Lumber Co.
TOMAH—Goodyear, C. A. Lumber Co.
TOMAHAWK—*Bradley Co. (Lumber, Lath & TONY—Hein, John Co. (Saw Mill) Shingles)
WABENO—*Wabeno Lumber & Mfg. Co.
WASHBURN—*Akeley & Sprague
WAUSAU—Barker & Stewart Lumber Co. (Saw & Planing Mill)
 *Curtis & Yale Co. (Hardwood Flooring, Basswood, Ceiling & Siding, Pine Dimensions, Shingles, etc.)
 *Fenwood Lumber Co.
 *Goodwillie Bros. (Box Shooks & Lumber)
 *Mortenson, Jacob Lumber Co. (White & *Mortenson & Stone (Norway)
 *Stewart, Alex. Lumber Co. (Lumber, Lath & Shingles)
 *Thompson-Flieth Lumber Co.
 *Wausau Box & Lumber Co. (Lumber & Box Shooks)
 *Wisconsin Box Co. (Pine & Basswood Lbr. & Box Shooks)
 *Wisconsin & Arkansas Lumber Co.
WAUSAUKEE—*Bird & Wells Lumber Co. (White Pine & Cedar Lumber, Lath, Shingles, Ties, Poles & Posts)
 Kuchenbecker Bros. (Saw Mill)
WAYSIDE—Haese, Aug. (Saw Mill)
WESTBORO—*Westboro Lumber Co.
WINNECONNE—*Winneconne Lumber Co.

WYOMING.

EVANSTON—*Atkinson, J. L. (Saw Mill & Lumber)
SUNDANCE—Sluss, Ira B. (Saw Mill)

Lumber Mfrs. & Wholesalers (Gum)

Askins & Dircks Lumber Co., Union City, Tenn.
 Bacon-Nolan Hardware Co., Memphis, Tenn.
 Bennett & Witte, Cincinnati, O.
 Beyer, Knox & Co., Buffalo, N. Y.
 Buffalo Hardwood Lumber Co., Buffalo, N. Y.
 Cincinnati Cigar Box Lumber Co. (Gum Lumber Veneered), Cincinnati, O.
 Cleveland Lumber & Mfg. Co., Cleveland, Tenn.
 Cypress Lumber Co., Boston, Mass.
 Darling, J. W. Lumber Co., Cincinnati, O.
 Dillman Planing Mill Co., Kennett, Mo.
 Dickson, J. W. Lumber Co., Memphis, Tenn.
 Druke Hardwood Lumber Co., Main & Clinton, St. Louis, Mo.
 Elias, G. & Bro., Buffalo, N. Y.
 Empire Lumber Co., Buffalo, N. Y.
 Farrin-Korn Lumber Co., Cincinnati, O.
 Fee-Crayton Hardwood Lumber Co., Little Rock, Ark.
 Himmelberger-Harrison Lumber Co. (Red Gum), Hurd, O. P., Jr., Cairo, Ill. Morehouse, Mo.
 Jones, G. W. Lumber Co., Appleton, Wis.
 Kentucky Lumber Co., Cincinnati, O.
 Lamb-Fish Lumber Co. (Band Sawed), Memphis, Tenn.
 Little Lumber Co. (Red Gum), St. Louis, Mo.
 Luehrmann, C. F. Hardwood Lumber Co., St. Louis, Mo.
 McLean, Hugh Lumber Co., Buffalo, N. Y.
 Miller, Anthony, Buffalo, N. Y.
 Mock, W. S. (Lumber & Mfrs. Barrels, Black Gum), Hallwood, Va.
 Mosberger-O'Reilly Lumber Co., 653 Morin av., St. Louis, Mo.
 National Cooperage & Woodenware Co., Peoria, Ill., & 16 Exchange pl., New York
 Ocmulgee River Lumber Co., Lumber City, Ga.
 Paepcke-Leicht Lumber Co., W Chicago av & N Sangamon, Chicago, Ill.

Perkins & Pettibone, Louisville, Ky.
 Radina, L. W. & Co., Cincinnati, O.
 Richmond Cedar Works, Richmond, Va.
 Roper, John L. Lumber Co., Norfolk, Va.
 Sanders, J. S. & J. B. (Green Gum), Islandton, S. C.
 Scratcher & Son, Buffalo, N. Y.
 Smith, W. E. Lumber Co., Memphis, Tenn.
 Sondheimer, E. Co., Chicago, Ill.
 Standard Hardwood Lumber Co., Buffalo, N. Y.
 Stewart, I. N. & Bro., Buffalo, N. Y.
 Stone, T. B. Lumber Co., Cincinnati, O.
 Sutherland-Innes Co., 29 B'way, New York
 Taylor & Crate, Buffalo, N. Y.
 Thomas & Proetz Lumber Co., St. Louis, Mo.
 Thompson, James & Co., Memphis, Tenn.
 Three States Lumber Co., Tennessee Trust bldg, Memphis, Tenn.
 Waccamau Lumber Co., Bolton, N. C.
 Ward Lumber Co., Whiting, Mo.
 Werner, Louis Saw Mill Co., St. Louis, Mo.
 West Florida Hardwood Co. (Red Gum), Marysville, Fla.
 Wiborg & Hanna Co., Cleveland, O.
 Yeager, Orson E., Buffalo, N. Y.

*Lumber (Pattern)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Lumber (Southern Hardwood)

Farrin, M. B. Lumber Co. ("Century" Oak Flooring, Poplar Siding, etc.), Cincinnati, Ohio
WOOD-MOSAIC FLOORING & LUMBER CO., Main Office & Factory, Rochester, N. Y. (See adv. index & branch offices, end of book)

Luxeberry Wood Finish

Berry Bros. (Ltd.), Main Office & Factory: Detroit, Mich.

Lye

Harshaw, Fuller & Goodwin Co. (Powdered), Cleveland, O.
 Penna. Salt Mfg. Co. (Greenwich, American & Powdered), 115 Chestnut, Phila., Pa.

*Macadam Plants

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Macadam Roads

(See Contractors, General)

Machine Parts (Finished)

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
 Franklin, H. H. Mfg. Co. (Standard & Special, "Franklin" Metal Finished Castings), Syracuse, N. Y.
 Globe Machine & Stamping Co., 3863 Hamilton av., Cleveland, O.
NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)
 Norton Grinding Co. (& Grout to Order, Shafts, Rolls, Spindles, Piston Rods, Crankshafts, etc.), Worcester, Mass.
 Richmond Forgings Corp'n, Belle Isle, Richmond, Va.

*Machine Parts (Hardened & Ground)

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)

Machine Screw Work

(See Screw Machine Work)

Machine Shop Furniture

Leglen, Eilerman Co. (Finished Castings), Dayton, O.
 New Britain Machine Co., New Britain, Conn.

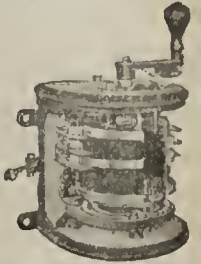
*Machine Tools

(For Manufacturers of Machine Tools see the specific article; for Dealers, see Machinists' Tools & Supplies; also Machinery Dealers, New & Second-Hand)

CLEVELAND TWIST DRILL CO., Lakeside & 49th, Cleveland, O. (See adv. index, end of book)

Starting rheostats and speed regulators for all classes of motor-driven machine tools.

THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.



MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)

VOELKNER & HARRY MANUFACTURING CO. (Special), 125 Woodbridge W., Detroit, Mich. (See adv. index, end of book)

Machine Work (Automatic)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

***Machine Work (General Contract)**

REEVES BROS. CO., Alliance, O. (See adv. index, end of book)

Machinery

(For Dealers in Machinery, see Machinery Dealers, New & Second-Hand; also Machinists' Tools & Supplies)

Note.—For various kinds of Machinery Manufacturers see sub-classifications of this head following in their regular alphabetical order. See also Drills of various kinds; Lathes of various kinds; also Planers, various kinds; also Sugar Machinery; also Textile Machinery, etc.; also Air Compressors; also Blowers; also Conveyors; also Cranes; also Dynamos & Motors; also Elevators; also Engines; also Locomotives; also Presses of various kinds; also Pumps; also Road Rollers of various kinds; also Rock & Ore Crushers. For page numbers, see Index of Contents.

(See also Machinists & Founders)

Abrading Machines

Clark & Mills Electric Co. (for Testing Road Making Materials), 543 Boylston, Boston, Mass.
 International Instrument Co., 23 Church, Cambridge, Mass.

Acid Cleaning Machines

Torrington Mfg. Co., Torrington, Conn.

Adding Machines

(See also Calculating Machines; also Typewriters, Adding & Billing)

Adder Machine Co. ("Wales" Visible Listing & Adding), Wilkes-Barre, Pa.

Adding Machine Co., Wilkes-Barre, Pa.

Arithmograph Co., 296 B'way, New York

Automatic Adding Machine Co. ("Gem" & "Automatic"), 332 B'way, New York

Beach-Kauffman Mfg. Co. ("Beach"), 61 W Fort, Detroit, Mich.; Works: Newark, N. J.

Brandt Cashier Co., Monadnock blk, Chicago, Ill.

Brunsviga Calculating Machines ("Brunsviga" & "Burkhard"), Land Title bldg, Philadelphia, Pa.

Burroughs Adding Machine Co., Detroit, Mich.

Bundy Mfg. Co., Endicott, N. Y.

Comptograph Co., 146 Blackhawk, Chicago, Ill.

Connecticut Computing Machine Co., New Haven, Conn.

Eaton-Hough Co., 237 B'way, New York

Elliott-Fisher Co., 329 B'way, New York

Ensign Mfg. Co. ("Ensign" Electric), Waltham, Mass.

Felt & Tarrant Mfg. Co. (Comptometers, Adding, Billing), 856 N Paulina, Chicago, Ill.

Hamburger, Felix ("Brumsviga" Computing Machines), 78 5th av., New York

Locke, O. E. Mfg. Co., Kensett, Ia.

†Mechanical Accountant Co., 17 Warren, Providence, R. I.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Morschhauser, W. A. ("Millionaire"), 1 Madison av., New York
 Morse & Walsh Co. (Calcimeter), Trenton, N. J.
 Morse, Herbert N. ("Calcimeter" Desk), Trenton, N. J.
 Muller, Oscar & Co. ("Saxonla"), 32 B'way, New York
 National Adding Machine Co., Cleveland, O.
 Rapid Computer Co. (Rapid Computer), Benton Harbor, Mich.
 Reuter, Carl H. ("Brunsviga" & "Burkhard"), Land Title bldg., Phila., Pa.
 Standard Adding Machine Co., Sprung av. & Forest Park boul., St. Louis, Mo.
 Universal Adding Machine Co. (Hand or Electric), St. Louis, Mo.
 Wales Adding Machine Co., 237 B'way, New York
 Weeks, A. A. Mfg. Co. ("Victor"), 11 Gold, New York

Addressing & Mailing Machines

Addressograph Co., 232 W Van Buren, Chicago, Ill.
 Agnew Auto-Mailing Machine Co. (Mailing Machines Only), 156 Pearl, Boston, Mass.
 Challenge Machinery Co., Grand Haven, Mich.
 Elliott Co., 100 Purchase, Boston, Mass.
 Mercantile Addressing Machine Works, 1 Madison av., New York
 Pollard-Alling Mfg. Co., 312 E 23d, New York
 Standard Addressing Machine Co., 310 B'way, New York
 Wallace & Co., 29 Murray, New York

Amatite Paper Machines

Haberkamp, Wm. Machine Works, 69 N Wells, Chicago, Ill.

Angle Straightening Machines

Brodesser Elevator Mfg. Co., Milwaukee, Wis.
 Kane & Roach, Syracuse, N. Y.
 Lewis Foundry & Machine Co., Coraopolis, Pa.
 Gibbs-Brower Co. (Elliott), 261 B'way, New York
 Mesta Machine Co., Lewis bldg., Pittsburg, Pa.
 Philadelphia Roll & Machine Co., S 23d & Wash'n av., Phila., Pa.
 United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank Bldg., Pittsburg, Pa.
 Youngstown Foundry & Machine Co., Youngstown, O.

Angular & Ratchet Drilling Machines

Millers Falls Co., 28 Warren, New York;
 Works: Millers Falls, Mass.

Annealing Machines

(See also Furnaces, Annealing & Case Hardening)

AMERICAN GAS FURNACE CO. (Gas).
 24 John, New York, & Elizabeth, N. J.
 (See adv. index, end of book)
 Chicago Pneumatic Tool Co., Fisher bldg., Chicago, Ill.

Anvil, Vise & Drilling Machines (Combined)

Bonney Vise & Tool Works ("Gipse"), Allentown, Pa.

Apple Butter Machinery

SPRAGUE CANNING MACHINERY
 Co. (Hand & Power), 5 Wabash av., Chicago, Ill. (See adv. index, end of book)

Apple Evaporating Machinery

Boutell Mfg. Co., Rochester, N. Y.

Apple Grating Machines

Boomer & Boscher Press Co., Syracuse, N. Y.
 Emery, G. J. Co., Fulton, N. Y.
 Hydraulic Press Co., Mount Gilead, O.
 Klotz Machine Co. ("Hero"), Sandusky, O.
SPRAGUE CANNING MACHINERY
 Co., 5 Wabash av., Chicago, Ill. (See adv. index, end of book)

Apple Paring Machines

Boutell Mfg. Co. ("Rival" "Triumph" Hand & Power), Rochester, N. Y.
 Sinclair, Scott Co., Baltimore, Md.
SPRAGUE CANNING MACHINERY
 Co. (For Cannery, Hand & Power), 5 Wabash av., Chicago, Ill. (See adv. index, end of book)

Apple Quartering Machines

Boutell Mfg. Co. ("Pease"), Rochester, N. Y.

Apple Slicing Machinery

Boutell Mfg. Co. ("Pease," "Rotary," "Rochester" Self Feed, "Perfect" Self Feed & "Sun"), Rochester, N. Y.

Armature Banding Machines

American General Engineering Co. ("A. G. E." Self-Contained), 253 B'way, New York
 Columbia Machine Works & Malleable Iron Co. ("Columbia"), 269 Chestnut, Brooklyn, N. Y.
 Device Improvement Co. ("Peerless," Combined Tension & Banding), Hanover Pa.
 Ridlon, Frank Co., Boston, Mass.
 Smith & Wallace, Woburn, Mass.
 Wood, Chas. N. Co., Boston, Mass.

Armature Coil Taping Machines

Griswold, Geo. M., New Haven, Conn.
 Ridlon, Frank Co., Boston, Mass.

Armature Coil Winding Machines

American General Engineering Co. (Armature & Field, "A. G. E."), 253 B'way, New York
 Comstock, J. F. & Co., Wilkes-Barre, Pa.
 Ridlon, Frank Co., Boston, Mass.

Armature Disc Notching Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Artesian Well Machinery

(See Well Drilling Machinery)

Ash Handling Machinery

(See Conveyors, Coal & Ash; also Coal & Ore Handling Machinery; also Coal Storage Plant Construction)

Asphalt Machinery

(See also Asphalt Mixers; also Furnaces, Asphalt, Pitch & Tar; also Heaters, Asphalt)
 Buffalo Steam Roller Co., Buffalo, N. Y.
 Cummer, F. D. & Son Co., The Arcade, Cleveland, O.
 Hetherington & Berner Co., Indianapolis, Ind.
 Iroquois Iron Works, Buffalo, N. Y.
 Pioneer Machine Works (Jas. Hartley, Prop.), (Road Making), 75 Delevan, Brooklyn, N. Y.
 Warren Asphalt Paving Co. (For Asphalt Paving, etc.), Cambridge, Mass.

Auger Brick Machines

American Clay Machinery Co., Bucyrus, O.
 Bonnot Co., Canton, O.
 Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
 Steele, J. C. & Son, Statesville, N. C.

Automatic Packaging Machines

Automatic Packaging Co., Buffalo, N. Y.

Automatic Turret Machines

Brown & Sharpe Mfg. Co., Providence, R. I.
 Cleveland Automatic Machine Co. ("Cleveland," also Automatic Plain Machines), Cleveland, O.

Automatic Weighing Machines

Automatic Packaging Co. ("Weyant"), Buffalo, N. Y.
 Automatic Weighing Machine Co., Newark, N. J.
 Avery Scale Co. ("Avery" Automatic Self-Indicating & Totalling), North Milwaukee, Wis.
 Bond Scale Co. (Bond Automatic), Los Angeles, Cal.
 Hardy, John B. (Electric), 116 Broad, New York
 National Automatic Weighing Machine Co., Mt. Kisco, N. Y.
 New England Automatic Weighing Machine Co. (For Weighing & Bagging Cement), 275 Congress, Boston, Mass.
 Richardson Scale Co., 3 Park row, New York
SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)
 Smith, F. L. & Co., 50 Church, New York
 Streeter-Ames Weighing & Recording Co., 140 Dearborn, Chicago, Ill.

Automobile, Bicycle, Sewing Machine & Typewriter Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
PRENTISS TOOL & SUPPLY CO.
 (Complete Plants), 115 Liberty, New York.
 (See adv. index & branch offices, end of book)

Automobile Cylinder Boring Machines

Binsse Machine Co., Harrison, N. J.
 Davis, W. P. Co., Rochester, N. Y.
 Espen-Lucas Machine Works, Philadelphia, Pa.
 Lucas Machine Tool Co., Cleveland, O.

Axe Handle Machinery

(See Lathes, Handle Turning)

Axe Cutting-Off & Centering Machines

FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Axe Upsetting Machines

AJAX MFG. CO., 3830 Lakeside, N E, Cleveland, O. (See adv. index, end of book)
 Comstock, Geo. S. (Hand Power), Mechanicsburg, Pa.

Axe Welding & Upsetting Machines

Kane & Roach, Syracuse N. Y.

Badge Pin Machinery

Balrd Machine Co., Oakville, Conn.

Bag Filling Machines

(See also Packing Machines)

Brown Bag Filling Machine Co. (For Filling & Sealing Flat Paper Bags), Fitchburg, Mass.
 Dentier Bagger Co., Vicksburg, Mich.
 New England Automatic Weighing Machine Co., 275 Congress, Boston, Mass.
 O'Brien, A. P. (Sacking & Weighing), Richmond, Va.
 Richardson Scale Co. ("Richardson" Proportioning & Bagging), 3 Park row, New York
 Ross, Chas. & Son Co., 148 Olsson av., Brooklyn, N. Y.
 Sawyer, W. H. & Sons, Americans, Ga.
SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)
 Vierengel, Matthew (Paper Cement), 32 S 6th, Brooklyn, N. Y.

Bag Printing Machines

General Mfg. Co., Elkhart, Ind.

Bag Making Machinery

Crompton & Knowles Loom Works (Looms), Worcester, Mass.
 Royal Machine Co., 61 N. J. R. R. av., Newark, N. J.
 Vierengel, Matthew (Cement), 32 S 6th, Brooklyn, N. Y.

Bag & Sack Filling & Sewing Machines

SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)

Bakers' Machinery

(See also Confectioners' Machinery)

WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)

Bale Tie Machines

Collins Plow Co., Quincy, Ill.
 Dain Mfg. Co., Ottumwa, Iowa
 Dederick's, P. K. Sons, Albany, N. Y.
 Des Moines Bale Tie Co., Des Moines, Iowa
 Eclipse Hay Press Co., Kansas City, Mo.
 Ertel, Geo. Co., Quincy, Ill.
 Famous Mfg. Co., East Chicago, Ind.
 Kansas City Hay Press Co., Kansas City, Mo.
 Porter, J. E. Co., Ottawa, Ill.
 Sandwich Mfg. Co., Sandwich, Ill.
 Scott Hay Press Co., Kansas City, Mo.
 Whitman Agricultural Co., St. Louis, Mo.

There are no Arguments in Favor of our Foreign Trade Service so Strong as **OUR RECORD**



(a) We are 31 years old, having been established since 1877. Each year we have secured a stronger foothold in the export field.

(b) We have advertisers who have been with us throughout these 31 years.

(c) 650 advertisers use our columns continuously and regularly, averaging 140 pages an issue.

(d) Our circulation each month reaches a new "high water mark."

(e) We have hundreds of letters recently from our clients proving that our advertising space gives excellent results.

These facts taken into consideration, even the most skeptical have to acknowledge that our service **MUST** be all right.

Don't you want us to send you a sample copy of the **AMERICAN EXPORTER**? It will interest you and be worth your while.

AMERICAN EXPORTER

135 WILLIAM STREET, NEW YORK CITY

ESTABLISHED 1877

Conducted by Export Specialists

A MERICAN EXPORTER, 135 William St., N. Y.
Please send us a sample copy of your latest issue

"It would be unwise to seek foreign trade without the aid of the AMERICAN EXPORTER'S advertising columns."

RACINE BOAT CO., RACINE, WIS.

"An unusual amount of energy is being displayed by the publishers of AMERICAN EXPORTER that proves of decided advantage to its advertisers." *THE PICKERING GOVERNOR CO., PORTLAND, CONN.*

"The AMERICAN EXPORTER is the only medium we really care to use to gain foreign trade. We rate your publication AA-1." *TYPEWRITER CLEARING HOUSE CO., NEW YORK, N. Y.*

"The AMERICAN EXPORTER is the one paper needed to build up an export business for the American manufacturer. Its services are far beyond all others combined." *WICK NARROW FABRIC CO., PHILADELPHIA, PA.*

The aim of the AMERICAN EXPORTER is and has always been the upbuilding of a world-wide demand for American goods. Issued in two editions each month, one in English, the other in Spanish (EXPORTADOR AMERICANO). The two together cover all countries that import American goods, reaching those who influence practically the entire buying of manufactured goods from this country.

650 manufacturers use this publication regularly to enlarge their export trade. Each issue averages 140 pages of advertising.

It publishes its exact circulation every month in its editorial pages.

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Representative space regularly in the AMERICAN EXPORTER gives you all the export advertising you need, for this publication covers every foreign market for your goods. This publicity coupled with our Foreign Trade service provides you with the necessary facilities for conducting intelligently an export trade.

AMERICAN EXPORTER,

135 WILLIAM STREET,
NEW YORK CITY

"The service of the AMERICAN EXPORTER is quite as substantial an investment as government bonds."

L. B. ALLEN CO., INC., CHICAGO, ILL.

"We thank you for the very efficient manner in which you have helped us build up an export business. We heartily recommend the AMERICAN EXPORTER to any manufacturer seeking export trade."

BAY STATE IRON WORKS, ERIE, PA.

"We have been advertising in the AMERICAN EXPORTER for thirty years. We are not ready to quit yet."

J. A. FAY & EGAN CO., CINCINNATI, OHIO

"Next to a personal representative the AMERICAN EXPORTER is the most efficient means of introducing lines abroad. It secures immediate returns."

GRAY MOTOR CO., DETROIT, MICH.

Band Re-Sawing Machines

(See also Band Sawing Machines)

ALLIS-CHALMERS CO. (Horizontal),
Milwaukee, Wis. (See adv. index & branch
offices, end of book)Bentel & Margedant Co., Hamilton, O.
Connell & Dengler Machine Co., Rochester,
Cordesman-Rechtin Co., Cincinnati, O. N. Y.
Fay, J. A. & Egan Co., Cincinnati, O.
Flscher, E. Machine Works (Engelbert Flscher,
Propt.), 710 Carroll av. Chicago, Ill.
Garland, M. Co., Bay City, Mich.
McDonough Mfg. Co., Eau Claire, Wis.
Mershon, W. B. & Co., Saginaw, Mich.
Wickes Bros., Saginaw, Mich.
Yerkes & Finan Woodworking Machine Co., St.
Louis, Mo.**Band Saw Brazing Machines**

(See Brazing Machines, Band Saw)

Band Saw Filing & Setting Machines

(See also Saw Filing & Setting Machines)

Baldwin, Tutbill & Bolton ("Bolton"), Grand
Rapids, Mich.
Cleveland Fillet Co. ("Foley"), Cleveland, O.
COVEL MFG. CO., Benton Harbor,
Mich. (See adv. index, end of book)
Cunningham, E. E. (Est. of "Cunningham"),
Hand & Power, Worcester, Mass.
Grimes & Harris, Leominster, Mass.
Hanchett Swage Works ("Hanchett" Auto-
matic), Big Rapids, Mich.
New Britain Machine Co. ("Equal Blow"),
New Britain, Conn.
Rotary File & Machine Co. ("New, Reliable,"
Automatic), 589 Kent av., Brooklyn, N. Y.
Sidney Tool Co. ("Defiance"), Sidney, O.**Band Saw Patch Machines**Baldwin, Tutbill & Bolton ("Bolton"), Grand
Rapids, Mich.**Band Saw Setting Machines**(See Band Saw Filing & Setting Machines;
also Saw Filing & Setting Machines; also
Saw Sharpening Machines)**Band Saw Stave Jointing Machines**Flscher, E. Machine Works, 345 Canal, Chi-
ago, Ill.**Band Sawing Machines****ALLIS-CHALMERS CO., Milwaukee,**
Wis. (See adv. index & branch offices, end
of book)American Sawmill Machinery Co., 30 Church,
New York, Works: Hackettstown, N. J.
American Wood Working Machinery Co., Roches-
ter, N. Y., West st. bldg. New York
Baker, Wm. H. (Hand Power), Trenton, N. J.
Baldwin, Tutbill & Bolton, Grand Rapids, Mich.
Bentel & Margedant Co. (Also Bands, Re-
Saws), Hamilton, O.
Central Machine Works Co., Minneapolis, Minn.
Clement, Frank H. Co., Rochester, N. Y.
Colladay, Jos. O., 624 Race, Phila., Pa.
Connell & Dengler Machine Co. (Band, Segment
Re-Saws), Rochester, N. Y.
Cordesman, Rechtin Co. (Scroll, etc.), Cincin-
nati, O.Curtis & Co. Mfg. Co., St. Louis, Mo.
Defiance Machine Works, Defiance, O.
Dennis Machine Co., Jackson, Mich.
Fay, J. & A. Egan Co., Cincinnati, O.
Flscher, E. Machine Works (Band, Segment &
Slab Re-Saws, etc.), 345 Canal, Chicago, Ill.
Frank Machinery Co., Buffalo, N. Y.
Gardner Machine Works (E. N. & W. H. Hob-
by, Prop's) (For Chair Mfrs., etc.), Gardner,
Mass.Garland, M. Co. (Self Feeding), Bay City,
Mich.Greaves, Kinsman & Co., Cook & Alfred, Cin-
cinnati, O.Hall & Brown Woodworking Machine Co., St.
Louis, Mo.Hobbs Mfg. Co., Worcester, Mass.
Indiana Machine Works Co., Fort Wayne, Ind.
Kennedy, Ralph M., 117 N 7th, Phila., Pa.
McDonough Mfg. Co., Eau Claire, Wis.
Mershon, W. B. & Co., Saginaw, Mich.
Oliver Machinery Co. ("Oliver") Grand Rapids,
Mich.Parks Ball Bearing Machine Co., Knowlton &
Fergus, Cincinnati, O.

Power, L. & Co., 20 S 23d Phila., Pa.

Root, B. M. Co., York, Pa.

Sidney Tool Co. ("Defiance" for Wagon Mak-
Silver Mfg. Co., Salem, O. ers), Sidney, O.

Smith, H. B. Machine Co., Smithville, N. J.

West Side Iron Works (For Pattern Shops,
etc.), Grand Rapids, Mich.
Wickes Bros. (Also Re-Sawing), Saginaw, Mich.
Wright, Chas. E. Co., Kenilworth, N. J.
Yerkes & Finn Wood Working Machine Co.
(Also Re-Sawing), St. Louis, Mo.**Band Sawing Machines for Metal**Newton Machine Tool Wks. (Inc.), 2347 Vine,
Phila., Pa.
Thompson, H. G. & Son Co. ("Eureka"), New
Haven, Conn.
Wright, Chas. E. Co., Kenilworth, N. J.**Band Sprue Sawing Machines**Brass Founders Supply Co. (For Brass Foun-
ders, Newark, N. J.)**Band & Rip Saw Boring & Spoke
Tenoning Machines (Combined)**Parks Ball Bearing Machine Co. (Ball Bear-
ing), Cincinnati, O.**Bandage (Surgeons') Cutting
Machines****CAMERON MACHINE CO., 61 Poplar,**
Brooklyn, N. Y. (See adv. index, end of
book)**Bar Drawing Machines**

(See Rod & Bar Drawing Machines)

Bar Iron Cutting Machines

(See Cutters, Iron, Bar & Rod)

Bar Pointing Machines

Brightman Mfg. Co., Shelby, O.

Barley Machinery**BARTLETT, C. O. & SNOW CO.**
("Pearl"), Cleveland, O. (See adv. index,
end of book)**Barrel Boring Machines**Strait, H. N. Mfg. Co. (For Boring Holes in
Barrels), Kansas City, Mo.**Barrel Hoop Driving Machines**

Strait, H. N. Mfg. Co., Kansas City, Mo.

Barrel Hoop Machinery

(See Hoop Machinery)

**Barrel, Keg, Stave & Heading
Machinery**Atkins, E. C. & Co. (Inc.), Home Offices & Fac-
tories, Indianapolis, Ind.

Bartlett, A. F. & Co., Saginaw, Mich.

Benson, A. M. Co., Cleveland, O.

Chapman, T. M. & Sons Co., Old Town, Me.

Chattanooga Machinery Co. ("Standard" Stave
Jointer for Slack Barrels; also Stave Bolt
Equalizers, Stave Bolters, etc.), Chatta-
nooga, Tenn.

Cleveland Brewers Supply Co., Cleveland, O.

Cook, R. A., Stevens Point, Wis.

Defiance Machine Works, Defiance, O.

Dix Foundry & Machine Co., Glens Falls, N. Y.

Garland, M. Co. (Stave & Heading Only), Bay
City, Mich.Gerlach, Peter Co. (For Kegs, Pails, Tubs &
Slack & Tight Barrels, Crockery Casks &
Tobacco Hogsheads), Columbus rd & Winter,
Cleveland, O.Goodspeed Machine Co. (Cylinder Stave Saws
for Pail, Keg, Barrel, Tub, etc.), Winchen-
don, Mass.

Holmes, E. & B. Machinery Co., Buffalo, N. Y.

Merritt Mfg. Co., Lockport, N. Y.

Oram, Jno. S., 160 Coe, Cleveland, O.

Perkins & Co. ("Columbia" Heading Machines,
etc.), Grand Rapids, Mich.

Phillips Barrel & Machine Co., Jamestown, N. Y.

Putnam, D. C. & Co. (Chamfering & Crozing
Machines, etc.), Lyons, N. Y.Reed, L. M. (Stave, Crozier, Setting-Up Ma-
chines & Headers, etc.), Cleveland, O.Rochester Barrel Machinery Works (Slack Bar-
rel, etc.), Rochester, N. Y.Stamm Machine Works (Stave Rejoiners, etc.),
Aurora, Ind.

Strait, H. N. Mfg. Co., Kansas City, Mo.

Strange, Chas. E., Taunton, Mass.

Trevor Mfg. Co. (Headings, Staves, etc.), Lock-
port, N. Y.Whitman Agricultural Co. (Headers, etc.), 6000
S B'way, St. Louis, Mo.Whitney, Baxter D. & Son (Stave Sawing Ma-
chinery), Winchendon, Mass.

Wickes Bros. Saginaw, Mich.

Barrel Washing MachinesCleveland Brewers' Supply Co., 317 Pearl,
Cleveland, O.Link Belt Machinery Co. (Automatic), W 39th &
Stewart, Chicago, Ill.

Schock, G., 341 E 59th, N. Y.

Basket MachineryCohden Machine Wks. (Stapling Machines),
Horton, E., Elmira, N. Y. Cohden, Ill.

Merritt Mfg. Co., Lockport, N. Y.

St. Joseph Iron Works (Also Package), St.
Joseph, Mich.Saranac Machine Co. ("Advance" Automatic),
St. Joseph, Mich.Titus, E. D. (Automatic Power Quark Basket
Stapling Machine), Petersburg, Va.**Beading Machines**

(See Crimping & Beading Machines)

Beam Coping Machines

Cincinnati Punch & Shear Co., Cincinnati, O.

Bean & Seed Sorting Machinery

Bacon Mfg. Co., Pontiac, Mich.

SCHULE, F. H. CO., 114-118 Liberty,
New York. (See adv. index, end of book)**Beef & Bacon Slicing Machines**

Ams, Max Machine Co., Mount Vernon, N. Y.

Beer Racking MachinesWhite Racker Co. (Automatic), 105 S Jefferson,
Chicago, Ill.**Beet Grading Machines**Invincible Grain Cleaner Co. (For Cleaners,
etc.), Silver Creek, N. Y.**Beet Sugar Machinery**(See also All Kinds of Sugar Machinery, in
Letter S)Allentown Fdry & Machine Works, Allentown,
Pa.Cornell, J. B. & J. M. Co., 26th & 11th av.,
New York

Dyer Co., New England bldg, Cleveland, O.

Jackson & Church Co., Saginaw, Mich.

MACKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)

Moline Plow Co., Moline, Ill.

Belt Cutting Machines

Luther, C. A. & Co., Pawtucket, R. I.

Belt Folding Machines

Birmingham Iron Foundry, Derby, Conn.

Farrel Foundry & Machine Co., Ansonia, Conn.

Belt Lacing MachinesBirdsboro Steel Foundry & Machine Co. ("Jack-
son"), Birdsboro, Pa.Peerless Belt Lacing Machine Co., Swanson &
Moore, Philadelphia, Pa.**Belt Makers' Machinery**Birmingham Iron Foundry (For Rubber Belt-
ing, etc.), Derby, Conn.

Dennis, Jno. Co., Lowell, Mass.

Turner Tanning Machine Co., Peabody, Mass.

Belt Stitching MachinerySinger Sewing Machine Co. (for Rubber Belting,
etc.), 149 B'way, New York**Belt Stretching Machines**Holmes, Chas. Machine Co., 299 Marginal, F. B.,
Boston, Mass.**Belt Strapping Machines**

Diamond Machine Co., Providence, R. I.

Northampton Emery Wheel Co., Leeds, Mass.

**Belt Stretching & Testing Machines
(Combined)**

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Bench Grinding Machines

(See Grinders, Bench)

Bending Machines

Almy, Geo. F., Delphos, O.
 Anderson, W. H. Tool & Machine Co. (Hand Bull Dozer), Detroit, Mich.
 Bethlehem Foundry & Machine Co. (For Angles, Tees, Plates, etc.), Front, South Bethlehem, Pa.

Bethlehem Steel Co., South Bethlehem, Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Works Co., Cleveland, O. (See adv. index, end of book)

Chambersburg Engineering Co., Chambersburg, Pa.

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

Commercial Mfg. Co. ("American" Hand Power for Blacksmiths, Machinists & Iron Workers), Cleveland, O.

Long & Allstatter Co. (Horizontal, etc., Double Steam, Motor & Belt Driven), Hamilton, O.

Niles-Bement-Pond Co., 111 B'way, New York
 Pittsburgh Mfg. Co. ("Cosgrove," Double End), Pittsburgh, Pa.

Robinson, J. M. Mfg. Co. 1/4-inch Plates & Lighter, Cincinnati, O.
 Wickes Bros. (Plate, etc.), Saginaw, Mich.
 Williams, White & Co., Moline, Ill.

Bending Machines (Concrete Steel Bar)

AMERICAN CONCRETE CO. (Mfrs. Agents), 80 William, New York. (See adv. index, end of book)

Bending Machines (Hydraulic)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Niles-Bement-Pond Co., 111 B'way, New York
 Sellers, Wm. & Co. (Inc.) (For Angles, Bars, Beams, etc.), 1600 Hamilton, Phila. Pa.

WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)
 Wood, R. D. & Co. (Or Bulldozer), 400 Chestnut, Phila., Pa.

Bending Machines (Tube)

WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

Bending & Forming Machines

(See Forming & Bending Machines)

Bevel Sawing Machines

Connell & Dengler Machine Co., Rochester, N. Y.

Beveling Machines

Royle, Jno. & Sons (Inc.) (Photo Engravers'), Paterson, N. J.
 Sheridan, T. W. & C. B. (Bookbinders, etc.), 56 Duane, New York

Bicycle Machinery

Adriance Machine Works, Brooklyn, N. Y.
 Billings, C. Spencer Co., Hartford, Conn.
 Blake & Johnson Co., Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Garvin Machine Co., 137 Varick, N. Y.
 Hoefler Mfg. Co., Freeport, Ill.
 Langelier Mfg. Co., Providence, R. I.
 Manning, Maxwell & Moore, 85 Liberty, New York

Manville, E. J. Machine Co. (Nipple Machinery), Waterbury, Conn.

New Haven Mfg. Co., New Haven, Conn.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt, C. Whitney Co., Hartford, Conn.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
 Waterbury Farrel Fdy. & Machine Co., Waterbury, Conn.

Billing Machines

(See Typewriters, Adding & Billing)

Blast Furnace Machinery

(See also Rolling Mill Machinery)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Scalfe Foundry & Machine Co., Pittsburgh, Pa.
 United Engineering & Foundry Co., Pittsburgh, Pa.

Weimer Machine Works Co., Lebanon, Pa.

Blast Hole Drilling Machines

Cyclone Drill Co., Orrville, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Blending & Sifting Machines

Howes, S. Co., Silver Creek, N. Y.

Blind Slat Crimping Machines

Power, L. & Co., 20 S. 23d, Phila., Pa.
 Smith, H. B. Machine Co., Smithville, N. J.
 Yerkes & Finan Woodworking Machine Co. (Blind Slat Tenoning & Boring Machines, etc.), St. Louis, Mo.

Blind Slat Sawing Machines

American Woodworking Machinery Co., Rochester, N. Y., West st. bldg., New York

Blind Wiring Machines

American Woodworking Machinery Co., Rochester, N. Y., West st., bldg., New York
 Cordesman, Rechin Co., Cincinnati, O.
 Fay, J. A. & Eagan Co., Cincinnati, O.
 Power, L. & Co. ("Hiny"), 20 S 23d, Phila., Pa.
 Seymour & Whitlock, Newark, N. J.
 Smith, H. B. Machine Co., Smithville, N. Y.

Blue Printing Machines

(For page number see Index of Contents)

Bobbin Machinery

(See Spool & Bobbin Machinery)

Boiler Head Flanging Machines

(See Flanging Machines)

Bolt Heading Machines

Acme Machinery Co., Cleveland, O.
AJAX MFG. CO. (Automatic Feed), 3830 Lakeside, N E, Cleveland, O. (See adv. index, end of book)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Boynton & Plummer, Worcester, Mass.

Brown, H. B. Co., East Hampton, Conn.
 Cook, Asa S. Co. (New Patent Feed for Stove & Tire Bolts, etc.), Hartford, Conn.

Howard Iron Works ("The Burdick," for Hex, Square & Carriage Bolts), Buffalo, N. Y.
 National Machinery Co., Tiffin, O.

New, Doty Mfg. Co., Janesville, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pawtucket Mfg. Co., Pawtucket, R. I.

Putnam Machine Co., Fitchburg, Mass.
 Waterbury Farrel Foundry & Machine Co. (Automatic Cold), Waterbury, Conn.

Bolt Pointing Machines

Acme Machinery Co., Cleveland, O.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Brown, H. B. Co., East Hampton, Conn.
 Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.

Howard Iron Works, 287 Chicago, Buffalo, N. Y.
 National Machinery Co., Tiffin, O.

Niles-Bement-Pond Co., 111 B'way, New York
 Pawtucket Mfg. Co., Pawtucket, R. I.

Pratt & Whitney Co., Hartford, Conn.
 Standard Machinery Co., Bowling Green, O.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Bolt Threading Machines

Acme Machinery Co., Cleveland, O.
 Becher, Jas. A., South Bend, Ind.

Signal & Keeler Mfg. Co. ("Peerless Special"), Edwardsville, Ill.

Brown, H. B. Co. ("Merriam," Automatic & Non-Automatic, Single or Double Spindle), East Hampton, Conn.

Cook, Asa S. Co. (For Stove & Tire Bolts, etc.), 80 Hynshope av., Hartford, Conn.

Detrick & Harvey Machine Co. ("Adams"), 508 E. Preston, Baltimore, Md.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
 Hart Mfg. Co., Wood c St. Clair, Cleveland, O.

Howard Iron Works (Automatic), 287 Chicago, Buffalo, N. Y.

National Machinery Co., Tiffin, O.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pawtucket Mfg. Co., Pawtucket, R. I.

Pratt & Whitney Co., Hartford, Conn.
 Reece, E. F. Co., Greenfield, Mass.
 Sanders, D. Sons, Yonkers, N. Y.

Standard Engineering Co., Ellwood City, Pa.
 Webster & Perks Tool Co., Springfield, O.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Bolt Turning Machinery

Harrington, Edwin Son & Co., 17th & Callowhill, Philadelphia, Pa.

Bolt Upsetting Machines

Acme Machinery Co., Cleveland, O.
AJAX MFG. CO., 3830 Lakeside, N E, Cleveland, O. (See adv. index, end of book)
 National Machinery Co., Tiffin, O.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pawtucket Mfg. Co., Pawtucket, R. I.

Bolt & Nut Machinery

Acme Machinery Co., Cleveland, O.
AJAX MFG. CO., 3830 Lakeside, N E, Cleveland, O. (See adv. index, end of book)

Badger State Machine Co., Janesville, Wis.
 Blake & Johnston, Waterbury, Conn.

Boynton & Plumber, Worcester, Mass.
 Brown, H. B. Co., East Hampton, Conn.

Eilers, H. P. Mfg. Co., Cleveland, O.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Hartford Machine Screw Co., Hartford, Conn.
 Howard Iron Works (Automatic), 287 Chicago, Buffalo, N. Y.

National Machinery Co., Tiffin, O.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pawtucket Mfg. Co., Pawtucket, R. I.

Phillips & McLaren, 24th & Smallman, Pittsburgh, Pa.

Pratt & Whitney Co., Hartford, Conn.
 Reece, E. F. Co., Greenfield, Mass.

Putnam Machine Co., Fitchburg, Mass.
 Standard Machinery Co., Bowling Green, O.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
 Webster & Perks Tool Co., Springfield, O.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)
 Williams, White & Co., Moline, Ill.

Bolt & Nut Screwing Machines

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Bolting Machines

Kauffman, J. A. ("Kauffman's" Wheel Rim), Miamisburg, O.

Nordyke & Marmon Co. (For Flour & Corn Mills), Indianapolis, Ind.

Ross, Charles & Son Co., 148 Classon av., Brooklyn, N. Y.

SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)

Bolting Saw Machines

Gerlach, Peter Co. (Hand & Power Feed), Columbus rd & Winter, Cleveland, O.

Book Binders' Cloth Cutting Machines
 Smyth Mfg. Co., Hartford, Conn.

Book Binders' Machinery

BECK, CHAS. PAPER CO. (LTD.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)

Brown, R. H. & Co., New Haven, Conn.
 Central Machine Co., Niagara Falls, N. Y.

Chambers Bros. Co., 52d, below Lancaster av., Phila., Pa.

Crawley Book Machinery Co., Newport, Ky.
 Dexter Folder Co., 290 B'way, New York

Fuller, E. C. Co., 28 Reade, New York
 Hickok, W. O. Mfg. Co., Harrisburg, Pa.

Hinze, H. (Backing, Beveling, Rounding Machines, etc.), Tribune bldg., New York

Hoole Macb. & Engraving Works, 29 Prospect, Brooklyn, N. Y.

Jacques, Jno. & Son, Worcester, Mass.
 Lange, Henry G., 22 N May, Chicago, Ill.

Latham Machinery Co., 199 S Canal, Chicago, Ill.

Liberty Machine Co., 31 Bnrling sl, New York
 Marresford, Wm. F., 56 Pearl, Brooklyn, N. Y.

Marshall, Son & Co., 226 Purchase, Boston, Mass.
 Oswego Machine Works (Neil Gray, Jr., Prop.), Oswego, N. Y.

Perking, Cbas. & Co., 147 S Clinton, Chicago, Ill.

Premier Machine Works, 164 William, New York
 Robinson, Jno. T. Co., Hyde Park, Mass.
 Rosback, F. P. Co., Benton Harbor, Mich.
 Saranac Machine Co. (Wire Book Stitching), St. Joseph, Mich.
 Seybold Machine Co., Dayton, O.
 Sheridan, T. W. & O. B., 56 Duane, New York
 Signorrey Tool Co., Hartford, Conn.
 Smyth Mfg. Co., Hartford, Conn.
 Standard Machinery Co., Mystic, Conn.
 Thompson & Son, 6 Elm, New Haven, Conn.
 Ziegler, Rob't & Sons, St. Louis, Mo.

Book Casing-In Machines

Smyth Mfg. Co., Hartford, Conn.

Book Covering Machines

Sheridan, T. W. & O. B., 56 Duane, New York

Book Gluing Machines

Smyth Mfg. Co., Hartford, Conn.

Book Sewing Machines

BECK, CHAS. PAPER CO. (LTD.),
 607 Chestnut, Phila., Pa. (See adv. index,
 end of book)
 Sigourney Tool Co., Hartford, Conn.
 Smyth Mfg. Co., Hartford, Conn.
 Thompson, Henry G. & Son Co., New Haven, Conn.

Book Stitching Machinery

Central Machine Co., Niagara Falls, N. Y.
 Saranac Machine Co., St. Joseph, Mich.

Book Trimming Machines

Smyth Mfg. Co., Hartford, Conn.

Boot Machinery

(See Shoe Machinery)

Boring Machines

(See Metal Boring Machines; also Wood Boring Machines)

Boring Machines (Bucket)

COATES CLIPPER MFG. CO. ("Coates"), Worcester, Mass. (See adv. index, end of book)

Boring Machines for Electric Wiring

Ford Auger Bit Co., Holyoke, Mass.
 Gaylord & Eitapence Co., Binghamton, N. Y.
 McCrea, Jas. & Co. ("Roberts"), 67 W Washington, Chicago, Ill.
 Star Electric Co. (The G. & E.), Binghamton, N. Y.

Boring Machines (Hand)

Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.
 Swan, Jas. Co. (Wood Frame for Wood), Seymour, Conn.

Boring Machines (Locomotive Connecting Rod)

Prentice Bros. Co., Worcester, Mass.

Boring Machines (Portable)

CHICAGO FLEXIBLE SHAFT CO., La
 Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)
 Newton Machine Tool Works, 2347 Vine, Phila., Pa.

OIL WELL SUPPLY CO. (Oil Well),
 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Stow Flexible Shaft Co., N 26th & Buttonwood, Phila., Pa.

Stow Mfg. Co., Binghamton, N. Y.

Boring & Drilling Machines

(See Mills, Boring & Turning)

Boring & Drilling Machines (Horizontal)

American Tool Works, Cincinnati, O.
 Barnes, B. F. Co., Rockford, Ill.
 Barnes, W. F. & John Co., Rockford, Ill.
 Beaman & Smith Co., Providence, R. I.
 Betts Machine Co., Wilmington, Del.
 Binsee Machine Co., Newark, N. J.

DALLETT, THOS. H. CO. (Electric Portable), 2300 York, Phila., Pa. (See adv. index, end of book)

Detrick & Harvey Machine Co., Baltimore, Md.
 Fitchburg Machine Works, Fitchburg, Mass.
 Fostick Machine Tool Co. (& Milling), Cincinnati, O.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Gisholt Machine Co. (Operating from Either Side), Madison, Wis.

Hoefer Mfg. Co. (Also Horizontal & Vertical Combined), Freeport, Ill.

Lucas Machine Tool Co., Cleveland, O.
 McCabe, J. J., 30 Church, New York
 Newton Machine Tool Works, 234 Vine, Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York
 Pawling & Harnischfeger, 38th N National av, Milwaukee, Wis.

Pratt & Whitney Co., Hartford, Conn.
 Prentice Bros. Co., Worcester, Mass.
 Putnam Machine Co., Fitchburg, Mass.
 Universal Boring Machine Co. ("Universal"), Hudson, Mass.

Warner & Swassey Co., Cleveland, O.

Boring & Tapping Machines (Automatic)

Dreses Machine Tool Co. (Boring, Facing & Tapping), Cincinnati, O.

Bottle Blowing Machines

Cox Brothers, Bridgeton, N. J.

Bottle Capping Machines

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

Bottle Corking Machines

Dicke Tool Co. (Bench & Upright), Downers Grove, Ill.
 Ermold, Edw. ("Ermold," Automatic Steam Welscopf, L. ("Milwaukee," Automatic), 20 Vesey, New York

Bottle Filling Machines (Automatic)

Bishop & Babcock Co. ("Eureka," Counter Pressure Revolving), 49th & Hamilton av, Cleveland, O.

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Liquid Carbonic Co. ("Success"), 67 N Wells, Chicago, Ill.

Bottlers Machinery & Mfg. Co., 67 Wells, Chicago, Ill.

Edson Mfg. Co., 257 Atlantic av, Boston, Mass.

Ermold, E., 652 Hndson, N. Y.
 Henes & Keller Co., Menominee, Mich.

Bottle Sealing Machines

Bond Bottle Sealing Co., Wilmington, Del.

Bottle Washing & Soaking Machines

Bailey Engine Co., Lima, N. Y.
 Cunningham Machinery & Mfg. Co., 113 S 7th, Phila., Pa.

Goldman, E. & Co., 175 E Randolph, Chicago, Ill.
 Hoyt Bros. & Co., Lynn, Mass.

Kyle Bottle Washing Machine, 65 N Ashland av, Chicago, Ill.

Loew Mfg. Co., Cleveland, O.
 Mangus & Sons Co., 244 E Randolph, Chicago, Ill.

Nordberg Mfg. Co. (Soaking & Washing), Milwaukee, Wis.

The 20th Century Machinery Co. (Soaking & Washing), Milwaukee, Wis.

VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis. (See adv. index, end of book)

Welscopf, L. ("Haller," for Washing Bottles After Corking), 20 Vesey, New York

Bottlers' Machinery & Supplies

(See Brewers' & Malsters' Machinery & Supplies; also Pitching Machines)

Aetna Bottle & Stopper Co. (Bottle Stoppers, etc.), Providence, R. I.

American Soda Fountain Co., Boston, Mass.
 American Stopper Co., 4 Verona, Brooklyn, N. Y.

Baird Machine Co. (Special Machinery & Bottle Stoppers), Oakville, Conn.

Barry-Wehmiller Machinery Co., St. Louis, Mo.

Bastian, C. L. Mfg. Co., 76 Illinois, Chicago, Ill.

Bernardin Bottle Cap Co. (Metallic Bottle Caps, "Cyclone" Soda Neck Wires & Beer Stoppers), Evansville, Ind.

Bishop & Babcock Co. ("Eureka" Beer Bottling Machines, etc.), 49th & Hamilton av, Cleveland, O.

Blue Seal Supply Co., 12 Portland, Boston, Mass.

Bond Bottle Sealing Co. (Bottle Sealing), Wilmington, Del.

Boston Bottle Wiring & Labeling Co., 404 Atlantic av, Boston, Mass.

Bottle Capping Machine Co. (Bottle Capping Machines), 1 Madison av, New York

Bottlers' Machinery Co. ("Peerless" Labeling Machines), 79 Milk, Boston, Mass.

Bottlers Machinery Mfg. Co., 67 Wells, Chicago, Ill.

Brewers' & Bottlers' Machinery Works, Chicago, Ill.

Bndde & Westermann, 50 Vesey, New York

Crown Cork & Seal Co. (Loop Seals, Bottle Stoppers, etc.), 1511 Guilford av, Baltimore, Md.

Cunningham Machinery & Mfg. Co. (Bottle Washers), 113 S 7th, Phila., Pa.

Day, J. H. & Co., Cincinnati, O.

Detroit Automatic Sterilizer Co. (Soaking & Sterilizing Machines), 943 Beaufait av, Detroit, Mich.

Dicke Tool Co., Downers Grove, Ill.

Economic Machinery Co. ("Star" & "World" Labeling Machines), Worcester, Mass.

Ermold, Edward (Corking & Labeling Machine, etc.), 656 Hudson, New York

Frankel, Max Co. (Bottlers' Supplies, Corks, etc.), 212 Pearl, New York

Goldman, E. & Co. (Inc.) (Pastenrizers, Crate Soakers, "Tunnelins" Bottle Washers, "Economic" Rackers, etc.), 175 E Randolph, Chicago, Ill.

Henes & Keller Co. (Bottle Fillers, Air Regulators, etc.), Menominee, Mich.

Hinde & Dauch Paper Co. ("Climax" Bottle Wrappers), Sandusky, O.

Hoyt Bros. & Co. (Bottle Washers, etc.), Lynn, Mass.

Hutter, Karl, 241 Lafayette, New York

Hygienic Bottling Machine Co., 6 Wall, New York

Independent Filter Co. ("Goldman" Bottle Filter), 175 E Randolph, Chicago, Ill.

Kyle Bottle Washing Machines (Soaking, Washing, Rinsing & Conveying, etc.), 65 N Ashland av, Chicago, Ill.

Ledrich Mfg. Co., 6 Oak, Chicago, Ill.

Leffler, Chas. & Co. (Lighting), 63 Clymer, Brooklyn, N. Y.

Lightning Bottle Wirer Co. (Wiring), Produce Exchange, New York

Loew Mfg. Co. (Bottle Cleaning Machines, etc.), 1900 Madison av, Cleveland, O.

McKenna Bros. Brass Co. (Beer Bottling Fancets), 1st av & Ross, Pittsburg, Pa.

Magnus, A. Sons Co. ("Otto" Bottle Soaking, Washing & Rinsing Machines, "Colby" Rackers, "Herder" Shaving Washers, "Magnus" Conveying Tables, etc.), 244 E Randolph, Chicago, Ill.

Merkel Mfg. Co., 19 Whitehall, New York

Nordberg Mfg. Co. ("Nordberg" Bottle Soaking & Washing Wheels), Milwaukee, Wis.

Puffer Mfg. Co., 216 Centre, New York

Schneider Perfection Bottling Machine Co. ("Perfection" Bottling Machines), 128 S Clinton, Chicago, Ill.

Twentieth Century Machinery Co. (Bottle Soaking Machines), Milwaukee, Wis.

VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis. (See adv. index, end of book)

Wenzell, S. S. Machine Co. ("Eick" Bottle Washing & Rinsing), 443 N 12th, Phila., Pa.

Welscopf, L. (Washing, Corking, Filling, Labeling, etc.), 20 Vesey, New York

Wittman Co. (Specialties), 188 William, New York

Yawman & Erbe Mfg. Co., Rochester, N. Y.

Zoller, Chas. Co., 211 E 94th, New York

Box Board Machines

Anstin & Son (also Heading), Grand Rapids, Mich.

Bentel & Margedant Co., Hamilton, O.

Carver Cotton Gin Co., East Bridgewater, Mass.

Fischer Machine Works (Power Feed Box, Board Matcher), 710 Carroll av, Chicago, Ill.

Gerlach, Peter Co. ("Jumbo"), Columbus rd & Winter, Cleveland, O.

Hall & Brown Woodworking Machine Co. (Power Feed Box Board Matches), 1917 N B'way, St. Louis, Mo.

Humphrey Machine Co., Keene, N. H.

Murray, D. J. Mfg. Co., Wausau, Wis.

Walker-Challoner Co., Oshkosh, Wis.

Box Board Matching Machines

American Woodworking Machinery Co., Rochester, N. Y., & West Street Bldg., New York
Fischer, E. Machine Works (Single & Double Color), 710 Carroll av., Chicago, Ill.
Morgan Machine Co., Rochester, N. Y.

Box Board Printing Machines

Automatic Specialty Co., 6th & Baymiller, Cincinnati, O.
Boston Printing Press & Machinery Co. ("Pronty"), 176 Summer, Boston, Mass.
Connell & Dengler Machine Co. (One, Two & Three Colors), Rochester, N. Y.
Cross Press & Sign Co., 57 Duxton, Chicago, Ill.
Grammes, L. F. & Sons (Cigar Box, etc.), Allentown, Pa.
Hayes Machine Co. (Inc.) (Automatic), Kingston, N. Y.
Hooper, F. X. (Multi-Color), Glenarm, Md.
Morgan Machine Co. (One to Three Colors), Rochester, N. Y.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Box Board Scoring Machines

Hobbs Mfg. Co., Worcester, Mass.

Box Cleating Machines

(See Box Nailing and Cleating Machines)

Box Dressing Machines

Dolg, Wm. S. (Est. of), 54 Franklin, B'klyn, N. Y.
Hayes Machine Co. (Inc.), Kingston, N. Y.

Box Ending Machines

Hobbs Mfg. Co., Worcester, Mass.

Box Hand Hole Cutting Machines

Fischer, E. Machine Works (Automatic), 710 Carroll av., Chicago, Ill.
Chase Turbine Mfg. Co., Orange, Mass.

Box Hinging Machines

Grammes, L. F. & Sons, Allentown, Pa.

Box Makers' Machinery

(See also Woodworking Machinery)

American Woodworking Machinery Co., Rochester, N. Y., West st bldg., New York
Bentel & Murgedant Co., Hamilton, O.
Burgess, E. A. (Est. of) (Nailing, Trimming, etc.), New Haven, Conn.
Connell & Dengler Machine Co., Rochester, N. Y.
Cordesman, Reichtin Co., 25 Butler, Cincinnati, Ohio
Dovetail Box Machine Co. (Dovetail Box Machines), St. Paul, Minn.
Fay, J. A. & Egan Mfg. Co., Cincinnati, O.
Garland, M. Co. (Box Board, etc.), Bay City, Mich.
Grammes, L. F. & Sons (Cigar & Wooden), Allentown, Pa.
Hall & Brown Woodworking Machine Co., 1917 N B'way, St. Louis, Mo.
Hayes Machine Co. (Inc.), Kingston, N. Y.
Heath, W. A. Machine Co., Lestershire, N. Y.
Hemingway, John & Son (Sizing, Saw, etc.), Lynn, Mass.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. B. Machinery Co., Buffalo, N. Y.
Humphrey Machine Co., Keene, N. H.
Luther, B. G. & Co., Worcester, Mass.
Mereen, Arno (Box Shook Band, Re-Sew, etc.), Minneapolis, Minn.
Montagne Iron Works Co., Montague, Mich.
Morgan Machine Co., Rochester, N. Y.
Power L. & H. Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Strange, Chas. E., Taunton, Mass.
Woods, S. A. Machine Co., Boston, Mass.

Box Nail Feeding Machines

Dolg, Wm. S. (Est. of) (Automatic), 54 Franklin, B'klyn, N. Y.

Box Nailing & Cleating Machines

Burgess, E. A. (Est.), New Haven, Conn.
Dolg, Wm. S. (Est. of) (Of All Kinds; also Double Decker Nailing & Cleating), 51 Franklin, B'klyn, N. Y.
Grammes, L. F. & Sons (Upright Power for Light & Medium Boxes, Brushes, Chains, etc.), Allentown, Pa.

Hayes Machine Co. (Inc.) (Automatic), Kingston, N. Y.
Mihiken Machine Works, 79 Washington av., Brooklyn, N. Y.
Morgan Machine Co., Rochester, N. Y.

Box Reaming Machines

Spears & Riddle Co., Wheeling, W. Va.

Box Stapling Machines

(See Wire Stapling Machinery)

Box Strapping Machines

Dolg, Wm. S. (Est. of) (Beer Box), 54 Franklin, Brooklyn, N. Y.

Box Trimming Machines

Burgess, E. A. (Est. of), New Haven, Conn.
Fischer, E. Machine Works (Double Box Blocker), 710 Carroll av., Chicago, Ill.
Morgan Machine Co. (For Dressing Corners of Lock Corner Boxes), Rochester, N. Y.

Brace Head Machines

Bradley, H. C. (For Wood Heads), Bridgeport, Conn.

Brass Sawing Machines

Grisswold, Geo. M., New Haven, Conn.

Brass & Copper Rolling Mill Machinery

Torrington Mfg. Co., Torrington, Conn.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Brazing Machines (Band Saw)

American Woodworking Machinery Co., Rochester, N. Y., West st bldg., New York
Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Cunningham, E. F. (Est. of), Worcester, Mass.
Flier & Stowell Co., Milwaukee, Wis.
Rogers, S. C. & Co., 10 Lock, Buffalo, N. Y.
Waterbury Farrel Fdy. & Machine Co., Waterbury, Conn.

Bread Crumbing Machines

Day, J. H. Co., Cincinnati, O.

Brewers' & Malsters' Machinery & Supplies

(See also Bottlers' Machinery & Supplies; also Ice & Refrigerating Machinery; also Elevating & Conveying Machinery; also Heaters, Feed Water)

Adt, John B., 332 N Holliday, Baltimore, Md.
Americau Antiformin Co. ("Antiformin"), 168 8th, Brooklyn, N. Y.
Barry-Wehmiller Machinery Co., St. Louis, Mo.
Bethlehem Foundry & Machine Co. (Rice Ricks, Malt Mills, Mash Machines, Cleaning Reels, Cask Supporters, etc.), Front, South Bethlehem, Pa., & 149 B'way, New York
Blettner, Jos. B. & Co., 1976 Central av., Cincinnati, O.
Brahm, Jos., 150 Nassau, N. Y.
Brewing Appliance Specialty Co. ("Perfection" Tapping Devices), Hartford, Conn.
British-American Co. (Inc.) ("Bishopric's Sanite Mastic"), Cincinnati, O.
Buecker, Henry F., Newport, Ky.
Buffalo Scale Co. (Brewers' Scales), Buffalo, N. Y.

Cleveland Brewers' Supply Co., 1506 W 25th, N W, Cleveland, O.
Cypress Lumber Co. (Tanks, Vats, etc.), Apalachicola, Fla., & 88 Broad, Boston, Mass.
Deekbach, F. C. Sons Co. (Cooling Apparatus, etc.), 123 W Court, Cincinnati, O.
Dornfeld, J. F. (Malting Drums), 134 Van Buren, Chicago, Ill.
Dundon's San Francisco Iron Works, San Francisco, Cal.
Engel, Geo. Beer Cooler Co., 182 E Genesee, Buffalo, N. Y.
Eureka Machine Co. (Branding Machines, Pitch Spraying Apparatus, Pitching Machines, Keg-Scrubbing Machines, etc.), 128 Vega av., Cleveland, O.
Galland-Henning Pneumatic Malting Drum Mfg. Co. (Pneumatic Malting Drums), Mitchell bldg., Milwaukee, Wis.
Girard Iron Works (Cask Rests, Vat Supporters, Hose Passers, etc.), 22d & Master, Phila., Pa.

Girard Machine Works (Inc.), 2616 Girard av., Phila., Pa.
Goetz & Flodin Mfg. Co. (Mash Tubs, Brew Kettles, Beer Coolers, Filters, Bronze Drilled False Bottoms, etc.), 109 W Chicago av., Chicago, Ill.

Golden Gate Mfg. Co. ("Golden Gate" Lager Beer Valves & Racking Apparatus), 9 Desbrosses, New York
Goldman, E. & Co., 175 E Raulolph, Chicago, Ill.

Haggenmiller, Th. (Est. of) (Combination Pitching Machines), 827 N 4th, Phila., Pa.
Harris, Arthur & Co. (Copper & Brass Work), 44 N. Curtis st, Chicago, Ill.
Helser, Wm. & Sons Co. (Manhole Doors, etc.), 114 Clinton, Buffalo, N. Y.
Hersey Mfg. Co. (Thermo-Pneumatic Malting Apparatus), 314 W 2d, Boston, Mass.
Hirsh & Schofield, 18 Water, New York
Heyman, N. H. (Keg-Scrubbing, Sprinkling Machines, etc.), 438 E 59th, New York
Howes, S. Co. (Polishing & Separating Machines), Silver Creek, N. Y.
Huetteman & Cramer Co., c Beaufait & Mack avs, Detroit, Mich.
Huntley Mfg. Co. ("Monitor" Malt Cleaner), Silver Creek, N. Y.

JEFFERY MFG. CO. (Barrel & Keg Elevators), Columbus, O. (See adv. index & branch offices, end of book)

KAESTNER & CO. (Inc.) (Grain Removers, Mashing Machines, Pitching Machines, Malt Mills, etc.), 241 S Jefferson, Chicago, Ill. (See adv. index, end of book)
Kast Copper & Sheet Iron Co. (Brew Kettles, Stills, Mash Tubs, Coolers, etc.), 91 Main, Buffalo, N. Y.

Keller, Robert ("Nonpareil" Stamp Paste & Isinglass, etc.), 334 3d, Phila., Pa.
Lanhenheimer, Geo. E. Co. (Brew Kettles, Beer Coolers, etc.), 1347 Carroll av., Chicago, Ill.

Liquid Carbonic Co., 67 N Wells, Chicago, Ill.
Loew Mfg. Co. ("Loco Magic" Purifier), Cleveland, O.
Matthews, John Apparatus Co. (Carbonic Acid Gas Machinery), 449 1st av., New York

Mey Chain Belting Engineering Works, 77 Washington, Buffalo, N. Y.
Milwaukee Brewers' Specialty Co. ("Milwaukee" Steaming Tray), Milwaukee, Wis.

National Machine Works (Pitching Machines), Sheffield and North av., Chicago, Ill.
Nordberg Mfg. Co. ("Nordberg" Bottle Soaking & Washing Wheels), Milwaukee, Wis.

Novelty Steam Boiler Works (Triplett & Jennings, Props.) (Mash Tubs), Baltimore, Md.
Olsen & Tilgner Mfg. Co. (Mash Machines, Non-Explosive Malt Mills, Keg & Barrel Scrubbers, Shaving Washers, Filter-Mass Washers, Keg & Barrel Rinsers, etc.), 37 Ontario, Chicago, Ill.

Otto, J. M. (Coolers, Swimmers, etc.), 46 Mauger, B'klyn, N. Y.
Pittsburg Conveying Machinery Co., Pittsburg, Pa.

Prince, John A. (Soaking, Washing & Rinsing Machines), 154 W 27th, New York
Prinz & Ran Mfg. Co. (Barley Grinders & Separators), 659 E Water, Milwaukee, Wis.

Reisinger, Hugo (Filtering Apparatus), 11 B'way, New York
Rheinstrom Bros. ("Perfection" Beer Filters), 919 Martin, Cincinnati, O.

Rilling, Chas. (Mash Machines, Malt Mills, Malt Sconers, Grain Elevators, Barrel and Keg Elevators, etc.), 524 W 34th, New York
Rochester Runging Apparatus Co. (Racking Apparatus), Beckley bldg., Rochester, N. Y.

Rochester Valve Co. (Brewers' Valves), Rochester, N. Y.
Roos', August, Son Copper Works (Fire Kettles, Fold Bottoms, Beer Coolers, etc.), 232 W 27th, New York

Saladin Pneumatic Malting Construction Co. (Pneumatic Malting Plants), 57 S Clinton, Chicago, Ill.

Schnelble, Joseph Co. (Racking, Carbonating & Cooling Apparatus), 128 Mott, New York
Schock, Gustav (Barrel Elevators, Shaving Machines, Malt Mills, Mash Machines, etc.), 514 W 57th, New York

Selbel-Snessdorf Cooper & Iron Mfg. Co. (Barrel Washers, Isinglass Mixers, Beer Coolers, etc.), c 2d & Lombard, St. Louis, Mo.
Selg Brewery Apparatus Co. (Fermenters, Washing Apparatus, etc.), 40 Water, New York

Toepter, W. & Sons, 76 Menomonee, Milwaukee, Wis.
Torchlanni, H. ("Ideal" Racking Apparatus, Pitching Machines, etc.), 245 Pearl, New York

VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis. (See adv. index, end of book)

Wassel's Copper Works (Kettles, Mash Tubs, False Bottoms & Copper Work of All Descriptions for Breweries, Distilleries, etc.), 50 N 3d, Brooklyn, N. Y.

Wittmann Co., 188 William, New York

Zinsser, Wm. & Co. (Isinglass, Pitch, Alkalies, Acids, etc.), 197 William, New York
Zobler, Otto Mfg. Co. (Kettles, Coolers, etc.), 103 N Oakley av, Chicago, Ill.

Zoller, Chas. Co. (Barrell Washing Machines, Keg Scrubbing Machines, etc.), 211 E 94th, New York

Briar Pipe Machinery

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Brick Cutting Machinery

AMERICAN CLAY MACHINERY CO. (Automatic), Bucyrus, O. (See adv. index, end of book)

Bonnot Co. (Rotary Automatic), Canton, O.
Brewer, H. & Co. (Rotary Automatic), Tecumseh, Mich.

Chambers Bros. Co., 52d & Lancaster av, Phila., Pa.
Fate, J. D. Co. ("Bensing," Automatic), Plymouth, O.

Freese, E. M. & Co., Galion, O.
Madden & Co. Endless Belt), Rushville, Ind.

Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
Steele, J. C. & Sons (Automatic), Statesville, N. C.

Wallace Mfg. Co. (Rotary Automatic, End Cutter, etc.), Frankfort, Ind.

Brick Machinery & Supplies

(See the Specific Article Required)

Brick Mould Sanding Machines

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)

Horton Mfg. Co., Palmsville, O.
Newton, A. H., Haverstraw, N. Y.
Potts, C. & A. Co., Indianapolis, Ind.

Waldron, Chas. ("Champion"), Haverstraw, N. Y.

Wellington Machine Co., Wellington, O.

Brick Press Machines

AMERICAN CLAY MACHINERY CO. (Dry & Semi-Dry & Re-Press), Bucyrus, O. (See adv. index, end of book)

Anderson Foundry & Machine Works, Anderson, Ind.

Arnold-Crager Co. (Re-Press), New London, Ohio
Bonnot Company, Canton, O.

Brewer, H. & Co., Tecumseh, Mich.
Caruell, Geo. (Est. of) (Fire & Red), 1819 N 5th, Phila., Pa.

Chambers Bros. Co. (Re-Pressed, etc.), 52d, below Lancaster av, Phila., Pa.
Chisholm, Boyd & White Co. (Dry Press), W 57th & Wallace, Chicago, Ill.

Clearfield Machine Shops (Ltd.) (Fire Brick), Clearfield, Pa.
Cleveland Brick Machinery Co. ("Perfection"), Cleveland, O.

Craycroft, Benjamin, Vadalla, Ill.
Eastern Machinery Co., New Haven, Conn.

Fate, J. D. Co., Plymouth, O.
Fernholtz Brick Machinery Co. (Power & Hand), Boyle & Old Manchester avs, St. Louis, Mo.

Freese, E. M. & Co., Galion, O.
Horton Mfg. Co. ("Hercules," "Standard" & "Ideal"), Palmsville, O.

Madden & Co., Rushville, Ind.
Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.

Means Foundry & Machine Co., Steubenville, O.
Michigan Brick & Tile Machine Co. (Repress), Moreauci, Mich.

National Brick Machinery Co., 138 Wash'n, Chicago, Ill.

Ohio Ceramic Engineering Co. (Dry & Re-press), Cleveland, O.

Ohio Machine Co. (Repress), Middleport, O.
Queen City Brick Machine Co., Traverse City, Mich.

Raymond, C. W. Co., Dayton, O.
Reliance Machine & Tool Works, 3333 Franklin av, St. Louis, Mo.

Ross-Keller Tripple Pressure Brick Machine Co. (Dry or Semi-Dry), Fullerton bldg, St. Louis, Mo.

Scott Mfg. Co. ("Andrus"), Keokuk, Ia.
Simpson Bros. (Fire Brick), Portsmouth, O.

Stearns Co. (Sand Lime), Erie, Pa.
Steele, J. C. & Son (Represses), Statesville, N. C.

Wallace Mfg. Co., Frankfort, Ind.
Wellington Machine Co., Wellington, O.

Wenger, Geo. Machinery & Supply Mfg. Co. (Dry Press, Stiff Mud, etc.), St. Louis, Mo.
Wilkes, A. M. & W. H. Co., Grassy Point, N. Y.
Woolley Foundry & Machine Co., Anderson, Ind.

Brick Press Machines (Sand Lime)

(See Sand Lime-Brick Machines)

Brick Sanding Machines

(See Brick Mould Sanding Machines)

Bridge Machinery for Bascule Bridges

FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Bridge Operating Machinery

(See Draw Bridge Machinery)

Briquetting Machinery

Chisholm, Boyd & White Co., W 57th & Wallace, Chicago, Ill.

Commercial Artificial Fuel Co. (For Anthracite Culm, Lignite & Ores, etc.), Toledo, O.
Mashek Engineering Co. (Coal, etc.), 141 B'way, New York

Mill & Smelter Engineering Co., 114 Liberty, New York

Mould, Henry S. Co., Empire bldg, Pittsburg, Pa.

National Fuel Briquette Machine Co. (Coal, etc.), 90 West, New York

Olsen, Tilnus & Co. (Moulding Machines), 500 N 12th, Phila., Pa.

Renfrow Briquette Machine Co., St. Louis, Mo.
Traylor Engineering Co. (Coal etc.), Allentown, Pa.

United States Peat Fuel Co., Fort Dearborn bldg, Chicago, Ill.

United States Rapid-Fire Gun & Power Co. (for Coal, Clay, etc.), Derby, Conn.

Broaching Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Burr, John T. & Sons, 420 Kent av, Brooklyn, N. Y.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Bronzing Machines

Fuchs & Lang Mfg. Co., 29 Warren, New York

Broom Corn Planting Machinery

Colton, G. D. & Co., Galesburg, Ill.
Deere & Mansur Co. (Planters'), Moline, Ill.

Gale Mfg. Co. (Planters'), Albion, Mich.

Broom Handle Machinery

Fay, J. A. & Egan Co., W. Cincinnati, O.
Bentel & Margedent Co., Hamilton, O.

Defiance Machine Works, Defiance, O.
Ober Mfg. Co., Chagrin Falls, O.

Trevor Mfg. Co., Lockport, N. Y.

Broom Machinery

Boyer, A. Broom Co., Galesburg, Ill.
Cassard, Hamilton, Baltimore, Md.

Genesee Valley Mfg. Co. (Broom Making), Mount Morris, N. Y.

Hand Stitch Broom Sewing Machine Co., House bldg, Pittsburg, Pa.

Lipe & Walroth, Syracuse, N. Y.
Mercantile Warehouse Co. (Steam Broom Sewing Machines), 53 Beach, New York

Phillips, S. C., Schenectady, N. Y.
Pocock, Oliver, 1042 Harriet, Cincinnati, O.

Walrath, Alphonse Co., Fort Plain, N. Y.

Brush Boring Machines

Waldron, Jno. Co., New Brunswick, N. J.

Brush Machinery & Tools

Grammes, L. F. & Sons (Nailing, etc.), Allentown, Pa.

Pickering, M. J., 238 Arch, Phila., Pa.
Young & Robinson, Frederick, Md.

Brush Nailing Machines

Grammes, L. F. & Sons, Allentown, Pa.

Buckle Machinery

Baird Machine Co. (Wire), Oakville, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.

Nilsou, A. H. Machine Co. (Automatic), Bridgeport, Conn.

Poole Engineering & Machine Co., Woodbury Station, Baltimore, Md.

SHUSTER, F. B. CO. (Automatic), New Haven, Conn. (See adv. index, end of book)

Special Machinery Co. (Automatic Buckle Wire), Bridgeport, Conn.

Buckle Tongue Machines (Automatic)

Nilson, A. H. Machine Co., Bridgeport, Conn.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Buckwheat Machinery

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

Buffing & Polishing Machines

(See Lathes, Buffing & Polishing)

Building Block Machinery

(See Clay Building Block Machinery; also Concrete Building Block Machinery)

Bulldozer or Bending Machines

(See also Forging Machines)

AJAX MFG. CO., 3830 Lakeside, N. E. Cleveland, O. (See adv. index, end of book)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Rock River Machine Co. ("Badger" Bulldozers), Janesville, Wis.

Williams, White & Co., Moline, Ill.
Youngstown Foundry & Machine Co. (Bulldozers), Youngstown, O.

Burnishing Machines

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Butchers' Machinery & Supplies

Bossert, Louis & Son (Blocks), Grand & Newtown Creek, B'klyn, N. Y.

Brecht, Gus. V., Butchers' Supply Co., 1201 Cass av, St. Louis, Mo.

Chatillon, Jno. & Sons (Complete Line), 85 Cliff, New York

Christy Knife Co. (Family Cleaners), Fremont, Ohio

Cincinnati Butchers' Supply Co., 1986 Central av, Cincinnati, O.

Daemicke, Paul J. Co., 261 S Water, Chicago, Ill.

Ehrlich, H. & Son, St. Joseph, Mo.
Fay, J. A. & Egan Co., Cincinnati, O.

Forschner, Chas. & Sons, 206 E 19th, New York

Foster Bros. & Chatillon Co., Fulton, N. Y.

Glockler, Bernard Co., Pittsburg, Pa.
Huff Bros. Butchers' Supply Co., Decatur, Ill.

Hulbert, E. L. & Co., Bernardstown, Mass.
Koch Butchers' Supply Co., 1415 St. Louis av, Kansas City, Mo.

Mack & Co., Rochester, N. Y.
Murray Iron Works Co., Burlington, Ia.

Plumb, Fayette R. (Inc.) (Cleavers, Choppers & Knives), Fkd., Philadelphia, Pa.

Probeck, P. J., 2333 E 4th, Cleveland, O.

Randall, R. T. & Co., 333 N 2d, Phila., Pa.

St. Louis Butchers' Supply Co., 1537 N 15th, St. Louis, Mo.

Schmidt, C. Co., John & Livingston, Cincinnati, O.

Scott Mfg. Co., 3d Nat'l B'k bldg, St. Louis, Mo.

Silver Mfg. Co. (& Supplies, Lard & Tallow Presses, Ham Pumps, "Wagner" Storage Stuffers, etc.), Salem, O.

Smith, H. B. Machine Co., Smithville, N. J.
Smith's, John E. Sons Co. (Meat Choppers, Steam Kettles, Lard Mixers, etc.), Buffalo, N. Y.

Stevens, B. A. Co., Toledo, O.
Superior Tool & Supply Co., 500 E Front, Cincinnati, O.

Wolf, Sayer & Heller, Fulton & Peoria, Chicago, Ill.

Butchers' Saw Punching Machines

Nichols Bros., Greenfield, Mass.

Butchers' Skewer Machinery

Fay, J. A. & Egan Co., Cincinnati, O.
Smith, H. B. Machine Co., Smithville, N. J.

Butt Drilling & Milling Machines

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Butter Dish Machinery

Merritt Mfg. Co., Lockport, N. Y.
Saranac Machine Co. (Automatic & Stapling Mach'y), St. Joseph, Mich.
Titus, E. E., Petersburg, Va.

Butter Printing & Cutting Machines

American Butter Cutting Machine Co., 21 Jay, New York
Burrell, D. H. & Co. ("American"), Little Falls, N. Y.
Cleveland Faucet Co. ("Elgin" Butter Cutter), Cleveland, O.
Friday, S. B. & Co., Brandon, Wis.

Button Machinery

Barry Mfg. Co., Muscatine, Ia.
Blake & Johnson Co., Waterbury, Conn.
Draber, John, Waterbury, Conn.
Grimes & Harris (Horn), Leominster, Mass.
McCurdy, Burton Machinery Co., Amsterdam, N.Y.
Manville Bros. Co., Waterbury, Conn.
Russell, Jno. W., Springfield, Mass.
Waldron, John Co. (Ivory Button Machinery), New Brunswick, N. J.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Button Sewing Machines

Russell Mfg. Co., Lancaster, Pa.
Union Button Sewing Machine Co., 184 High, Boston, Mass.

Cabbage Machinery (Canners')

SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Cable Covering Machines

(See Wire & Cable Covering Machinery)

Cable Haulage Machinery

Superior Iron Works, Superior, Wis.

Cabling & Armoring Machines

Watson Machine Co., Paterson, N. J.

Calcined Plaster Machinery

(See Gypsum Machinery)

Calculating Machines

(See also Adding Machines)

Calculagraph Co., 9 Maiden la, New York
Calculus Co., 414 Prospect av, S E, Cleveland, Ohio
Duntley Mfg. Co., 305 Dearborn, Chicago, Ill.
Dupligrath Co., 43 State, Detroit, Mich.
Hamburger, Felix ("Brunsoiga"), 78 5th av, New York
Mechanical Accountant, 8 Warren, Providence, R. I.
Morse, C. R. Co. ("Morse"), 60 5th av, Chicago, Ill.
Morse, Herbert N. ("Calcumeter" Desk Adding Machines), Trenton, N. J.
Morschhauser, W. A. ("Millionaire"), 1 Madison av, New York

Calendering Machines

Arthur Co., 188 Front, New York
Butterworth, H. W. & Sons Co. (Embossing), Phila., Pa.
Currier, Cyrus & Sons, Newark, N. J.
Curtis & Marble, Worcester, Mass.
Downington Mfg. Co., East Downington, Pa.
Farrel Foundry & Machine Co., Ansonia, Conn.
Holyoke Machine Co. (Breaker, Friction, Web, etc.), Holyoke, Mass.
Kilburn, Lincoln & Co. (Inc.), Fall River, Mass.
Lowell Machine Shop, Lowell, Mass.
Norwood Engineering Co. (Breaker, Friction, Web, etc.), Florence, Mass.
Poole Engineering & Machine Co., Woodberry Sta., Baltimore, Md.
Rice, Burton & Fales Machine & Iron Co., Worcester, Mass.
Terhune, J. I., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co. (Pressure & Friction), Providence, R. I.
Waldron, John Co., New Brunswick, N. J.
Watson Machine Co. (Embossing, Pressure & Friction, etc.), Paterson, N. J.

Calipering Machines

Rogers, Jno. M. Works, Gloucester City, N. J.

Cam Cutting Machines

Fay Machine Tool Co. ("Fay" Automatic), 2d & Glenwood av, Phila., Pa.
Manville Bros. Co., Waterbury, Conn.
Standard Machinery Co., Providence, R. I.

Can Beading Machines

(See also Crimping & Beading Machines)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
NIAGARA MACHINE & TOOL W'KS., Buffalo, N. Y. (See adv. index, end of book)

Can Body Forming Machines

American Can Co., 135 Adams, Chicago, Ill.
Ams, Max Machine Co., Mount Vernon, N. Y.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Can Boxing Machines

SPRAGUE CANNING MACHINERY Co. ("Knapp," for Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Can Capping Machines

Ams, Max Machine Co. (Power), Mount Vernon, N. Y.
Ayars Machine Co. (Hand & Power), Salem, N. J.
Cottingham, Harrison (Hand), Baltimore, Md.
Renneburg, E. & Sons (Hand), Baltimore, Md.
Robins, A. K. & Co. (Hand), Baltimore, Md.
Sherman, S. F. ("Hawkins"), Utica, N. Y.
SPRAGUE CANNING MACHINERY Co. (For Canners), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Steward, L. & J. A. (Power), Rutland, Vt.

Can Cleaning & Washing Machines

Astoria Iron Works (Inc.) ("Jansen's" for Salmon Canneries, etc.), Astoria, Ore.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Link Belt Co. (Can Washing), W 39th & Stewart av, Chicago, Ill.

Can Crimping Machines

Lewis, E. J., Middleport, N. Y.

Can Filling Machines

Ams, Max Machine Co., Mount Vernon, N. Y.
Astoria Iron Works (Inc.) (For Salmon Canneries, etc.), Astoria, Ore.
Ayars Machine Co. ("King" or "Stevens" for Tomatoes, Apples, Peas, etc.), Salem, N. J.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Climax Machinery Co. ("Climax," Automatic for Milk), Indianapolis, Ind.
Cottingham, Harrison (Fruits, Vegetables & Oysters), Baltimore, Md.
Day, J. H. & Co., Cincinnati, O.
Elgin Mfg. Co. ("Elgin" Rotary Condensed Milk-Filling Machines), Elgin, Ill.
Howes, S. Co., Silver Creek, N. Y.
Huntley Mfg. Co. (For Beans, Berries, etc.), Silver Creek, N. Y.
Judge Machine Co., Marine Bank bldg, Baltimore, Md.
Robins, A. K. & Co. (Tomato, etc.), Baltimore, Md.
Ross, Chas. & Son Co., 148 Olsson av, Brooklyn, N. Y.
Sinclair-Scott Co. (Bucklin' Pea Filler), Baltimore, Md.

SPRAGUE CANNING MACHINERY Co. ("Moore & Bristol's," "Jersey Queen," "Stevens' King," for Tomatoes, Corn, etc.), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Stickney, Henry R. (For Evaporated Cream, Baked Beans, Fats, Oils, Mustard, etc.), Portland, Me.
Weiscopef, L. ("Haller," Automatic for Catsup, Mustard, etc.), 20 Vesey, New York

Can Heading Machines

Ams, Max Machine Co. (Automatic Double Seamers), Mount Vernon, N. Y.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Can Labeling Machines

(See Labeling Machines)

Can Lacquering Machines

Burt Machine Co., Baltimore, Md.

Can Lining Machines

Ams, Max Machine Co. (Adjustable, Round, Square, Covers, etc.), Mount Vernon, N. Y.

Can Makers' Machinery

Adriance Machine Works (Soldering & Sanitary), 254 Van Brunt, Brooklyn, N. Y.
American Can Co., 135 Adams, Chicago, Ill.
Ams, Max Machine Co. (Air Tight Seam without Solder or Acid, etc.), Mount Vernon, N. Y.
Astoria Iron Works (Inc.) ("E. K. & M." Can Body Making & Soldering), Astoria, Ore.
Ayars Machine Co., Salem, N. J.
Blake & Johnson Co., Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Consolidated Press & Tool Co., 96 N Clinton, Chicago, Ill.
Ferracute Machine Co., Bridgeton, N. J.
Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.
McDonald Machine Co. (Automatic Lock Seamer, Can Tester, etc.), 3207 Shields av, Chicago, Ill.
Mitchell, Jno. R. Co., Baltimore, Md.
NIAGARA MACHINE & TOOL W'KS., Buffalo, N. Y. (See adv. index, end of book)
Scandinavian Can & Machine Co., Southwest Harbor, Me.
Slaysman & Co. (Automatic), 718 E Pratt, Baltimore, Md.
Sleeper Machine Co., S Exchange pl., Boston, Mass.
Stevenson & Co., 601 S. Caroline, Baltimore, Md.
Steward, L. & J. A., Rutland, Vt.
Swaine, F. J. Co., St. Louis, Mo.
United Can Co., 19th & Harrison, San Francisco, Cal.
Utica Industrial Co. (Automatic Can Machinery), Rome, N. Y.
Wold, Torris & Co. ("Cameron" Lockseamer, Header, etc.), 66 N Jefferson, Chicago, Ill.

Can Marking Machines

SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Wescott, Geo. F. Co., Buffalo, N. Y.

Can Polishing Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Can Scoring Machines

Ams, Max Machine Co. (Adjustable Power), Mount Vernon, N. Y.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Can Seating Machines

American Can Co. (Vacuum), 135 Adams, Chicago, Ill.

Can Slitting Machines

Ams, Max Machine Co. (Gang), Mount Vernon, N. Y.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Can Stamping Machines (Automatic)

Perfect Automatic Can Stamper Co., Le Roy, N. J.

Can Tapping Machines

American Can Co., 135 Adams, Chicago, Ill.

Can Testing Machines

(See Testing Machines, Can)

Can Wiping Machines

Ayars Machine Co., Salem, N. J.
Morrall Bros., Morrall, O.
SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Can Wrapping Machines

Burt Machine Co., Baltimore, Md.

Can & Jar Washing Machines

SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Cancelling Machines

Bright, H. V. (For Ticket Chopper), 517 Huron rd., Cleveland, O.
Cummins, B. F. Co. (Plain & Dating, etc.), 1411 W Ravenswood Park, Chicago, Ill.

Candle Machinery

Blettner, Jos. B. & Co., 1976 Central av., Cincinnati, O.
Brewer, Wm. W., Troy, N.Y.
Brown & Patterson, 33 Marcy av., Brooklyn, N.Y.
Homan & Co. (Molds, etc.), Cincinnati, O.
Houchin, Aiken Co., 37 53d, Brooklyn, N.Y.

Candy Machinery

(See Confectioners' Machinery)

Candy Vending Machines

(See Vending Machines)

Cane-Seat Chair Machinery

(See also Chair Machinery)

Goodspeed Machine Co. (Chair Seat Grooving Machinery), Wlanchendon, Mass.
Purdy Machine Co. (Also Wood Seat), Ghent, O.
Remington Machine Co., Wilmington, Del.
Scow Bay Iron & Brass Works, Astoria, Ore.
Sprague Canning Machinery Co., Hoopestown, Ill., & 42 River, Chicago, Ill.
Wilbur, A. Shea (Sardine), Eastport, Me.

Cane Sugar Machinery

(See Sugar Machinery. For page number consult Index of Contents)

Canning Machinery

Ams, Max Machine Co. (For making & Selling Tin Cans), Mount Vernon, N.Y.
Astoria Iron Works (Inc.), Astoria, Ore.
Ayers Machine Co., Salem, N.J.
BLISS, E. W. CO. (For Making Packers' & Sanitary Cans), 19 Adams, Brooklyn, N.Y. (See adv. index, end of book)
Burpee & Letson (Ltd.), Bellingham, Wash.
Burt Machine Co., Baltimore, Md.
Chicago Solder Co., 44 N Union, Chicago, Ill.
Conant, R. O. Co., Portland, Me.
Cox Bros. & Co., Bridgeton, N.J.
Fancher Machine Co., Baldwinville, N.Y.
Gaumer, John L. Co. ("Mudge" Canner), 22d & Wood, Phila., Pa.
Hermetic Closure Co. (For Cold Products in Glass by Vacuum Process), 1142 W 16th, Chicago, Ill.
Huntley Mfg. Co. ("Monitor"), Silver Creek, N.Y.
Judge Machine Co., Marine Bank bldg, Baltimore, Md.
Knapp, Fred. H. & Co., 5 Wabash av., Chicago, Ill.
Lang, E. M. Co. (Soldering Machines, Capping Irons, Solder, Presse, etc.), Portland, Me.
Lewis, E. J., Middleport, N.Y.
McDonald Machine Co., 3207 Shields av., Chicago, Ill.
Morrall Bros. (Corn Cutter, Silk Brushing Cooker Filler, etc.), Morrall, O.
NIAGARA MACHINE & TOOL WKS., Buffalo, N.Y. (See adv. index, end of book)
Remington Machine Co., Wilmington, Del.
Renneburg & Co., Baltimore, Md.

Robins, A. K. & Co., Baltimore, Md.
Safe Glass Co. (For Cold Products in Glass by Vacuum Process), Upland, Ind.
Sherman, Sanford F., Utica, N.Y.
Sinclair-Scott Co., Baltimore, Md.
Stevenson & Co., Baltimore, Md.
Stickney, Henry R. (Filling & Syruping, etc.), Portland, Me.
Stiles-Morse Co. (End Seam Soldering Machines), 138 Jackson boul., Chicago, Ill.
SPRAGUE CANNING MACHINERY Co., 5 Wabash av., Chicago, Ill. (See adv. index, end of book)
Thompson Mfg. Co., Lancaster, N.H.
Vance & Baker, Muscatine, Iowa
Wescott, Geo. F. Co. (For Tomatoes, etc.), Buffalo, N.Y.

Canting Machines

ALLIS-CHALMERS CO. (Overhead), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Capping Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N.Y. (See adv. index, end of book)
Cox Bros. & Co., Bridgeton, N.J.
Dicke Tool Co., Downers Grove, Ill.
Lang, E. M. Co., Portland, Me.
Steward, L. & J. A., Rutland, Vt.

Capsule Machines

Colton, Arthur, 184 Brush, Detroit, Mich.
Hall Capsule Co., Covington, Ky.
Mulford, H. K. Co., 412 S 13th, Phila., Pa.
Stokes, F. J. Machine Co., Phila., Pa.

Car-Boring Machines

American Wood Working Machinery Co., Rochester, N.Y., West st. bldg, N.Y.
Bentel & Bargedant Co. (Heavy Vertical, 3 & 6 Spindle), Hamilton, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill.; Factory: Rockford, Ill.
Powers, L. & Co. (Est. of), 22 S 23d, Phila., Pa.

Car Box Boring Machines

Detrick & Harvey Machine Co., 508 E Preston, Baltimore, Md.
Niles-Bement-Pond Co., 111 B'way, New York

Car Box Grinding Machines

Diamond Machine Co., Providence, R.I.

Car Link & Pin Machines

National Machinery Co., Tiffin, O.

Car Spring Coiling Machines

(See also Spring Coiling Machines; also Wire Spring Coiling Machines)
Coulter & McKenzie Machine Co., Bridgeport, Conn.

Car Wheel Boring Machines

Baker Bros., Toledo, O.
Betts Machine Co., Wilmington, Del.
Bickford, H. & Co., Lakeport, N.H.
Cincinnati-Bickford Tool Co., Cincinnati, O.
Newton Machine Tool Works, Phila., Pa.
Niles-Bement-Pond Co., 11 B'way, New York

Prentice Bros., Worcester, Mass.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Car Wheel Cleaning Machines

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Car Wheel Molding Machines

(See also Molding Machines, Foundry)
Prldmore, Henry E., 918 S Rockwell, Chicago, Ill.

Car & Carriage Spring Machinery

Coulter & McKenzie Machine Co. (Car), Bridgeport, Conn.
Evans', Jno. Sons, 13th & Buttonwood, Phila., Pa.
Johnson, Wm. T. Co. (Spring Forming), Cincinnati, O.

Carbon Cutting Machines

Lundin Electric & Machine Co. (Electrical, with Switch), 10 Thacher, Boston, Mass.

Carbon Machinery

BARTLETT, C. O. & SNOW CO., French st, nr Columbus, Cleveland, O. (See adv. index, end of book)
BROWN, A. & F. CO., 25 Dey, New York; Works: Elizabethport, N.J. (See adv. index, end of book)

Carbon Paper Machinery

Waldron, Jno. Co., New Brunswick, N.J.

Carbonating Machinery

American New System Carbonating & Dispensing Apparatus Co., 407 Broome, New York
Automatic Carbonator Mfg. Co., Minneapolis, Minn.
Hecla Compressed Gas Co., Chelsea, Mass.
Liquid Carbonic Co., 67 N Wells, Chicago, Ill.

Cardboard Sawing Machines (Wood)

Grammes, L. F. & Sons (Combination Rip & Cross-Cut), Allentown, Pa.

Cardboard Slitting Machines

KNOWLTON, M. D. CO., Rochester, N.Y. (See adv. index & branch offices, end of book)

Card Cutting Machines

(See also Card Cutting Machines, Textile)
American Novelty Co. ("Premium" Hand Card & Paper Cutter for Office Use), Bridgeport, Conn.
BECK, CHAS. PAPER CO. (LTD.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)
BLISS, E. W. CO. (Playing Cards), 19 Adams, Brooklyn, N.Y. (See adv. index, end of book)
Dietz Machine Works (Rotary, for Jacquard, Index, Commercial & Slot Machine Cards & R. R. Tickets, etc.), 126 Fountain, Phila., Pa.

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 Jacques, Jno. & Son, Worcester, Mass.
 Marshall, Son & Co. ("Superior" Hand Card Cutter), 226 Purchase, Boston, Mass.
 Otten Bros. 40 W Larned, Detroit, Mich.
 Roblson, Jno. T. Co., Hyde Park, Mass.

Carpet Cleaning Machinery

Cleveland Laundry Machinery Co., 5222 Track rd, S E, Cleveland, O.
 Reed Mfg. Co. (Carpet Cleaning Wheels), Springfield, O.

Carpet Sewing Machines

(See Sewing Machines)

Carriage Builders' Machinery

(See also Woodworking Machinery; also Hub, Spoke & Rim Machinery)

Abbott & Co. (Hub Bored), Hudson, Mich.
 American Wood Working Machinery Co., Rochester, N. Y., West st. bldg. New York
 Bentel & Margedant Co., Hamilton, O.
 Cordesman, Meyer & Co., 55 Central av, Cincinnati, O.

Cordesman, Reichtin Co., Cincinnati, O.
 Defiance Machine Works, Defiance, O.
 Fay, J. A. & Egan Co., c Front & John, Cincinnati, O.

Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill. Factory, Rockford, Ill.

HEARTLEY MACHINE, VARIETY
 Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Kane & Roach, Syracuse, N. Y.
 Klotz Machine Co., Sandusky, O.
 Smith, Philip Co., Sidney, O.
 Williams, White & Co., Moline, Ill.

Carriage Spring Machinery

(See Car & Carriage Spring Machinery)

Carton Sealing Machines

Automatic Packaging Co. ("Weyant"), Buffalo, N. Y.

Cartridge Machines

Blake & Johnson Co., Waterbury, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Carving Machines

(See Wood Carving Machines)

Carving Machines (Corner Block)

Fay, J. A. & Egan Co., Cincinnati, O.
 Smith, H. B. Machine Co., Smithville, N. J.

Carving Machines (Pattern Makers')

Porter, C. O. & A. D., Grand Rapids, Mich.

Cast Iron Pipe Cutting Machines

Smith, A. P. Mfg. Co. ("French"), Newark, N. J.

Casting Machines

(See Molding Machines, Foundry)

Castor Bean Oil Mill Machinery

PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)

Catsup Machines

Cottingham Harrison, Baltimore, Md.
 Howes, S. Co., Silver Creek, N. Y.
 Sinclair-Scott Co., Baltimore, Md.
SPRAGUE CANNING MACHINERY
 Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Ceiling Machinery

(See Sheet Metal Workers' Machines, Etc.)

Celluloid Machinery

Cook, F. H. & Co., Leominster, Mass.
 Farrel Foundry & Machine Co., Ansonia, Conn.

Cement Brick Machines

(See also Concrete Building Block Machinery)
AMERICAN CONCRETE CO. (Mfrs. Agents), 80 William, New York. (See adv. index, end of book)
 Ashland Steel Range & Mfg. Co. ("U. S."), Ashland, O.

American Foundry Co., Leipsic, O.
 Besser Mfg. Co., Alpena, Mich.
 Burrell Mfg. Co. ("X-L-All" Hand Power), Bradley, Ill.

Cement Machinery Co., Jones bldg, Jackson, Mich.

Concrete Building Supply Co. (Sand Cement Brick & Block Machines), Milwaukee, Wis.
 Co-Operative Foundry Co., Detroit, Mich.
 Dykema Co., Grand Rapids, Mich.
 Edmondson Concrete Machinery Co. ("Peerless"), South Bend, Ind.

Emery & McKerlie, Bay City, Mich.
 Enamel Concrete Co. (Enameled Concrete Brick), Des Moines, Ia.

Franel Machine Co., 710 N 8th, St. Louis, Mo.
 La Grange Specialty Co. ("Little Giant"), La Grange, Ill.

Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.

Medlum Hollow Block Machine Co. (Neils Erickson, Prop.), Minneapolis, Minn.

Moore Plow & Implement Co., Greenville, Mich.
 Peerless Brick Machine Co. ("Peerless"), Minneapolis, Minn.

Queen City Brick Machine Co. ("The Helms Press"), Travers City, Mich.

Runyan Concrete Machinery Co., Canal, Dover, Ohio.

Schwab, R. J. & Sons Co., Milwaukee, Wis.
 Seaman's Cement Brick Machine Co., Grand Rapids, Mich.

Simplex Mfg. Co. ("Simplex"), Jackson, Mich.
 Stearns Co., Erie, Pa.

Winner Block Machine Co. ("Winner"), Minneapolis, Minn.

Cement Burial Vault Machinery

Parry, L. L., Mansfield, O.

Cement Drain Tile Machines

(See Cement Sewer Pipe Machinery)

Cement Machinery

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Clay Machinery Co., Bucyrus, O.
 Barnard & Leas Mfg. Co. (Cement Packers), Moline, Ill.

BARTLETT, C. O. & SNOW CO.,
 French st., n Columbus, Cleveland, O. (See adv. index, end of book)

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

Bonnot Company, Canton, O.
BRADLEY PULVERIZER CO. ("Griff- du Mill"), 92 State, Boston, Mass.

Burrell Mfg. Co., 251 S Jefferson, Chicago, Ill.
 Century Cement Machine Co., Rochester, N. Y.

Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.

Ehrsam, J. B. & Sons Mfg. Co., Enterprise, Kan.

Emerick, Geo. S. (Crushers, Dryers), Nazareth, Pa.

Great Western Mfg. Co., Leavenworth, Kan.
 Howes, S. Co. (Cement Packers), Silver Creek, N. Y.

Kent Mill Co. (Pulverizers, etc.), 170 B'way, New York

Learner, P. H. ("Learner" Cement Fine), Elmwood, Ind.

Mosser, W. F. & Son (Rotary Crushers), Allentown, Pa.

Newell Mfg. Co. (Cement Mills), 149 B'way, New York

Power & Mining Machinery Co., Cudahy, Wis.
 Prosser, Thos. & Son, 15 Gold, New York

Raymond Bros. Impact Pulverizer Co., 143 Laflin, Chicago, Ill.

REEVES BROS. CO. (For Wet or Dry Process), Alliance, O. (See adv. index, end of book)

Robins Conveying Belt Co. (Belt Conveyors), Passaic, N. J.

SCHULE, F. H. CO. (Automatic Scales), 114-118 Liberty, New York. (See adv. index, end of book)

Smldth, F. L. & Co., 50 Church, New York

STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of book)

Sturtevant Mill Co., Clayton c Park, Dor., Boston, Mass.

Thropp, John E. Sons Co., Trenton, N. J.

Traylor Engineering Co., Allentown, Pa.
 Treadwell, M. H. Co., 90 West, New York; Works, Lebanon, Pa.

United Iron Works Co. (Cooling Towers, Sturry Tanks, Pug Mills, Slacking Machines, etc.), Springfield, Mo.

Unlean Iron Works, Wilkes-Barre, Pa.
 Walker & Elliott (Mixers), Wilmington, Del.

WEBSTER MFG. CO. (Elevating & Conveying Appliances), 1075 W 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

West Pulverizing Machine Co., Jersey City, N. J.

Cement Moulding Machines

(See Concrete Building Block Machinery)

Cement Post Machinery

Cement Machinery Co., Jackson, Mich.
 Francis Machine Co., 710 N 8th, St. Louis, Mo.
 Illinois Gravel Co. ("Scott's"), Princeton, Ill.
 Post, D. & A. Mold Co. (Inc.), Three Rivers, Mich.
 Stowell, E. R., New Corydon, Ind.

Cement Roofing Tile Machinery

(See Cement Shingle Machinery)

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Miracle Pressed Stone Co. ("Miracle"), Minneapolis, Minn.
Smidth, F. L. & Co., 50 Church, New York
Waterloo Cement Machinery Co., Waterloo, Iowa
Wilson & Baillie Mfg. Co., 26 Court, Brooklyn, N. Y.

Cement Shingle Machinery

Diamond Cement Machine Co. ("Diamond"), Toledo, O.
Diamond & Butterworth ("20th Century"), Morgan Park, Ill.
Janesville Cement Shingle Co., Janesville, Wis.
Learner, P. H. ("Learner"), Elwood, Ind.
U. S. Cement Machinery Co., Deshler, O.
Waterloo Concrete Roofing Co. (Inc.) ("Noxall," "Waterloo"), Waterloo, Iowa

Cement Slacking Machines

United Iron Works Co., Springfield, Mo.

Cement Testing Machines

(See Testing Machines, Cement)

Cement Weighing Machines (Automatic)

Avery Scale Co. ("Avery"), North Milwaukee, Wis.

Centering Machines

Binghampton Machine Tool Works, Binghampton, N. Y.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
Heathcote, John & Son, Providence, R. I.
Hendey Machine Co., Torrington, Conn.
Hurlbut-Rogers Machine Co., So. Sudbury, Mass.
Kempsmith Mfg. Co. (Shaft), Milwaukee, Wis.
National Machine Co., Hartford, Conn.
Nazel Engineering & Machine Works, 4041 N 5th, Phila., Pa.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Phoenix Mfg. Co., Hartford, Conn.
Pratt & Whitney Co., Hartford, Conn.
Weils, F. E. & Son Co., Greenfield, Mass.
Whiton, D. E. Machine Co. ("Whiton" Revolving), New London, Conn.

Centrifugal Machines (Laboratory)

Lonergan, J. E. & Co. ("Leffman's"), 211 Race, Phila., Pa.

Cereal Roasting Machines

(See Coffee, Peanutt, Etc., Roasting Machines)

Chain Making Machinery

BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)
Garvin Machine Co. (Bicycle), 137 Varick, New York
Union Foundry & Machine Co., Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Chain Mining Machines

(See also Coal Cutting Machines)

Goodman Mfg. Co., Halsted & 48th pl, Chicago, Ill.
Morgan Gardner Electric Co., 2632 Shields av, Chicago, Ill.
Sullivan Machinery Co. (Electric), Railway Exchange bldg, Chicago, Ill.

Chain Testing Machines

(See Testing Machines, Chain)

Chair Machinery

(See also Cane-Seat Chair Machinery)

American Wood Working Machinery Co., Rochester, N. Y., & West St bldg, New York
Bancroft, Frank H., 210 N Main, Gardner, Mass.
Chase Turbine Mfg. Co. (Chair Back Machines), Orange, Mass.
Cordesman, Rechin Co., Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Gardner Machine Works (E. N. & W. H. Hobby, Prop's), Gardner, Mass.
Goodspeed Machine Co., Winchendon, Mass.
Jenkins Machine Co., Sheboygan, Wis.
McKnight, L. G. & Son, Gardner, Mass.
Nash, J. M. (Special), Milwaukee, Wis.
Purdy Machine Co., Ghent, O.
Sawin, Edw. H., Gardner, Mass.
Whitney, Baxter D. & Son, Winchendon, Mass.

Chamfering & Crozing Machines

Putnam, D. C. & Co., Lyons, N. Y.

Channeling Machines

(See Stone Channeling Machines)

Charging Machines (Open Hearth)

Alliance Machine Co., Alliance, O.
American Furnace & Machine Co., Pittsburg, Pa.
MORGAN ENGINEERING CO. (For Billets, Blooms, etc.), Alliance, O. (See adv. index & branch offices, end of book)
Wellman-Seaver-Morgan Co. ("Wellman" Open Hearth Charging Machine & Boxes, Cleveland, O.

Cheese Box Machinery

Goo & Hopkins, Delavan, N. Y.
Jones, Frank L., Utica, N. Y.
Merritt Mfg. Co., Lockport, N. Y.
Oakes & Burger, Cattaraugus, N. Y.

Cheese Factory Machinery

Burrell, D. H. & Co., Little Falls, N. Y.
Creamery Package Mfg. Co., 182 E Kinzie, Chicago, Ill.
Fargo Creamery Supply House, Lake Mills, Wis.
Jones, Frank L., Utica, N. Y.

Chemical Machinery

Pratt Engineering & Machine Co., Atlanta, Ga.
Stokes, F. J. Machine Co., 17th & Cambria, Phila., Pa.
WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)

Chewing Gum Machines

Mills, Thos. & Bro., 3108 N 4th, Phila., Pa.
Savage Bros. Co., 42 Michigan, Chicago, Ill.

Chocolate Dipping Machines

Annen Candy & Biscuit Co., Green Bay, Wis.
Champion Candy Machine Co., 3257 Old York rd, Phila., Pa.

Chocolate Machinery

American Chocolate Machinery Co., 106 E 16th, New York
Carey, Sam'l (Complete Plants), 17 State, New York
Holmes & Blanchard Co., 39 Washington N, Boston, Mass.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

Chucking Machines

American Tool Works Co., Cincinnati, O.
Baker Bros. (Vertical), Toledo, O.
Beckford, H. & Co., Lakeport, N. H.
Brown & Sharpe Mfg. Co. (Horizontal & Vertical), Providence, R. I.
Bullard Machine Tool Co., Bridgeport, Conn.
Cleveland Automatic Machine Co. ("Cleveland" Automatic), Cleveland, O.
Colburn Machine Tool Co. (Vertical), Franklin, Pa.
Davis, W. P. Machine Co. (Horizontal), Rochester, N. Y.
Fay & Scott, Dexter, Me.
Garvin Machine Co., Spring & Varick, New York
Gisholt Machine Co. (Turret Lathes for Finishing Castings & Forgings), Madison, Wis.
Hamilton Machine Tool Co., Hamilton, O.
Johnson, I. H., Jr., Co. (Inc.), Philadelphia, Pa.
Jones & Lamson Machine Co., Springfield, Vt.
King Machine Tool Co., Cincinnati, O.
Le Blond, R. K. Machine Tool Co., Cincinnati, O.
Lodge & Shipley Machine Tool Co., 3055 Colerain av, Cincinnati, O.
Potter & Johnston Machine Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.
Quint, A. D. (Vertical), Hartford, Conn.
Rogers Machine Tool Co., Alfred, N. Y.
Warner & Swasey Co., Cleveland, O.
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.

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MANUFACTURERS OF

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FOR THE MANUFACTURING OF

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PAINTS, LEADS,
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MACHINERY
AND OVENS.

EMIL STAEBLE, General Manager.

SAGINAW, MICHIGAN.

Chuckling & Turning Machines (Automatic)

Hartford Machine Screw Co., Hartford, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Potter & Johnson Machine Co., Pawtucket, R. I.
Pratt & Whitney Co., Hartford, Conn.

Cider & Wine Making Machinery (See Wine Making Machinery)

Cigar Box Machinery

Bentel & Margendant Co., Hamilton, O.
Doig, Wm. S. (Box Nailing, etc.), 54 Franklin,
Brooklyn, N. Y.
Grammes, L. F. & Sons, Allentown, Pa.
Johnston, Wm. T. Co. (Lumber Imitation), Cin-
Shirk, P. E., Blue Ball, Pa. cinnati, O.

Cigar Machinery

Detroit Cigar Machine & Tool Co., 914 Hast-
ings, Detroit, Mich.
Ermold, E. (Branding Machine), 652 Hudson,
New York
Grammes, L. F. & Sons, Allentown, Pa.
Lilberman Mfg. Co., 812 Winter, Phila., Pa.
Miller, Dubrul & Peters Mfg. Co. (& Moulds,
etc.), Cincinnati, O.
National Progress Bunching Machine Co., 341 E
59th, New York
New Jersey Machine Co., 120 Pacific, Newark,
N. J.
New York Pneumatic Cigar Rolling Co., 102
Chambers, New York
Pittsburg Cigar Machine Co., Pittsburg, Pa.
Strieder, J. W. (Banding Machines, Auto-
matic), 178 Ruggles, Boston, Mass.

Cigarette Box Machinery (Tin)

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Cigarette Box Machines

Dietz Machine Works, 126 Fontain, Phila., Pa.

Cigarette Machinery

Comas Machine Co., Salem, Va.
Ludington, F. J. ("Ludington"), Waterbury,
Conn.
Miller, Dubrul & Peters Mfg. Co., Cincinnati,
Ohio
Rabell, Prudencio Cigarette Machine Co., 91
Wall, New York
United Cigarette Machine Co., Lynchburg, Va.
Winston Cigarette Machine Co., Winston,
Salem, N. C.

Circular Folding Machines

Leffler, Charles & Co. (Used in Packing Baking
Powder, Medicines, etc.), 63 Clymer, Brook-
lyn, N. Y.

Circular Stone Sawing Machines

(See Stone Sawing Machinery, with the words
Circular Sawing following their names)

Circular Wood Sawing Machines

American Steam Pump Co., Battle Creek, Mich.
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margendant Co. (Re-Saws), Hamilton,
Ohio
Comstock, Geo. S. (Steel Frame), Mechanics-
burg, Pa.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rehtin Co. (Resaws, etc.), 215
Butler, Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Kligger, R. E. (for Rippling & Cross Cutting),
Worcester, Mass.
Lyon Iron Works, Greene, N. Y.
Spangler Mfg. Co., York, Pa.

Clapboard Machinery

Lane Mfg. Co., Montpelier, Vt.
Union Iron Works, Bangor, Me.

Clay Building Block Machinery

(See also Brick Machinery, also Brick Press
Machines)

American Clay Machinery Co., Bucyrus, O.
Bonnot Company, Canton, O.
Brewer, H. & Co., Tecumseh, Mich.
Fate, J. D. Co., Plymouth, O.
Freese, E. M. & Co., Gallon, O.
Michigan Brick & Tile Machine Co., Morcen,
Mich.
Turner, Vaughn & Taylor Co., Cuyahoga Falls,
Ohio

Clay Grinding Machines

BROWN, A. & F. CO. ("Cogswell"),
25 Dey, New York. Works, Elizabethport,
N. J. (See adv. index, end of book)
Chambers Bros. Co., 52d, below Lancaster av.,
Phila., Pa.
Crossley Machine Co., Trenton, N. J.
Fernholtz Brick Machinery Co., Boyle & Old
Manchester avs. St. Louis, Mo.
Rockwood Mfg. Co., Indianapolis, Ind.
Scott Mfg. Co., Keokuk, Ia.

Clay Tempering Machinery

Carnell, Geo. (Est. of), 1819 N. 5th, Phila., Pa.

Clay Washing Machinery

Crossley Machine Co., Trenton, N. J.
Raymond, C. W. Co., Dayton, O.

Clay Working Machinery

(See Brick Press Machines, Etc.)

Cleaning Machinery

(See Grain Cleaning & Grading Machinery)

Clock & Watch Makers' Machinery

Ames, B. C. & Co., Waltham, Mass.
Blake & Johnson Co., Waterbury, Conn.
Cross & Spiers Machine Co. (Automatic), Wa-
terbury, Conn.
Draher, John, Waterbury, Conn.
STARK TOOL CO., Waltham, Mass.
(See adv. index, end of book)
WALTHAM MACHINE WORKS, Wal-
tham, Mass. (See adv. index, end of book)

Closing Machines for Friction Top Cans

American Can Co., 135 Adams, Chicago, Ill.

Closing Machines for Steel Lead Kegs

American Can Co., 135 Adams, Chicago, Ill.

Cloth Room Machinery

(See Textile Machinery & Supplies; for page
number consult Index of Contents)

Clothes Pin Machinery

Humphrey Machine Co., Keene, N. H.
Goodspeed Machine Co., Winchendon, Mass.
Stauffer, Geo. E., East Stroudsburg, Pa.

Coal Breaker Machinery

Finch Mfg. Co., Scranton, Pa.
Grant Iron Works, Mahoney City, Pa.
Milholland, J. & B. Co., Pittsburg, Pa.
Roberts & Schaeffer Co. ("Jumbo"), Old Colony
bldg, Chicago, Ill.

Coal Crushing Machinery

(See Crushers, Coal & Coke)

Coal Cutting Machines

(See also Chain Mining Machines)

Goodman Mfg. Co. (Electric), Halsted & 48th
pl, Chicago, Ill.
INGERSOLL-RAND CO. ("Radialaxe"
& "New Ingersoll"), 11 B'way, New York.
(See adv. index & branch offices, end of book)
JEFFREY MFG. CO. (Electric & Com-
pressed Air), Columbus, O. (See adv. index
& branch offices, end of book)
Morgan-Gardner Electric Co. (Electric), 2640
Shields av, Chicago, Ill.
Pneumelectric Machine Co. ("Pneumelectric"
Coal Puncher), Syracuse, N. Y.
Prox, Frank Co. (Electric), Terre Haute, Ind.
Sullivan Machinery Co. (Pick Machines, Com-
pressed Air), Railway Exchange bldg, Chi-
cago, Ill.
Whitcomb, Geo. D. Co., Rochelle, Ill.

Coal Mining Machinery

(See also Mining Machinery)

Aetna Foundry & Machine Co. (Hoisting Outfits,
etc.), Springfield, Ill.
ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)
Bartlett, A. F. & Co., Saginaw, Mich.
Eagle Iron Works, Des Moines, Ia.
Ellison, Wm. & Sons Mfg. Co., St. Louis, Mo.

Exeter Machine Works, Pittston, Pa.
Finch Mfg. Co., Scranton, Pa.
Goodman Mfg. Co. (Electric), Halsted & 48th
pl, Chicago, Ill.
Grant Iron Works (Mine & Breaker Machinery),
Mahoney City, Pa.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)
JEFFREY MFG. CO. (Complete
Equipment), Columbus, O. (See adv. index
& branch offices, end of book)
KILGORE-PETELER CO., Minneap-
olls, Minn. (See adv. index, end of book)
Milholland, J. & J. B. Co., Pittsburg, Pa.
Morgan-Gardner Electric Co., 2640 Shields av,
Chicago, Ill.
Mount Carmel Iron Works, Mount Carmel, Pa.
Pittsburg Coal Washer Co., Pittsburg, Pa.
Prox, Frank Co., Terre Haute, Ind.
Scaife Foundry & Machine Co., Pittsburg, Pa.
Sullivan Machinery Co., Railway Exch bldg,
Chicago, Ill.
Tamaqua Mfg. Co., Tamaqua, Pa.
Vulcan Iron Works, Wilkes-Barre, Pa.

Coal Mining Machinery (Electric)

(See also Chain Mining Machines; also Coal
Cutting Machines)

Goodman Mfg. Co., Halsted & 48th pl, Chicago,
Ill.
JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)
Morgan-Gardner Electric Co., 2640 Shields av,
Chicago, Ill.
Ottumwa Iron Works, Ottumwa, Ia.
Pneumelectric Machine Co. ("Pneumelectric"
Coal Puncher), Syracuse, N. Y.
WESTINGHOUSE ELECTRIC & MFG.
Co., Pittsburg, Pa. (See adv. index &
branch offices, end of book)

Coal Punching Machines

(See Coal Cutting Machines)

Coal Shearing Machines

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)
Sullivan Machinery Co. (A Vertical Coal Pick
Machine), Railway Exch bldg, Chicago, Ill.

Coal Washing Machinery

American Concentrator Co. ("New Century"),
Basic City, Va.
Comstock, Geo. S. (Also for Ore Washing),
Mechanicsburg, Pa.
Heyl & Patterson, Pittsburg, Pa.
JEFFREY MFG. CO. ("Jeffrey-Rob-
inson"), Columbus, O. (See adv. index &
branch offices, end of book)
Link Belt Co., W 39th cor Stewart av., Chi-
cago, Ill., & 299 B'way, New York
Pittsburg Coal Washer Co., Pittsburg, Pa.
Scaife Foundry & Machine Co., Pittsburg, Pa.
Stroh, W. H., Mauch Chunk, Pa.
Tamaqua Mfg. Co., Tamaqua, Pa.

Coal & Ore Handling Machinery

(See also Conveyors, Coal)

Alliance Machine Co., Alliance, O.
Andresen-Evans Co., Monadnock bldg, Chicago,
Ill.
BARTLETT, C. O. & SNOW CO.,
Cleveland, O. (See adv. index, end of book)
BROWN HOISTING MACHINERY CO.
(Coal Storage, Coal Unloaders, Car Dump-
ers, etc.), Cleveland, O., & 50 Church, New
York. (See adv. index & branch offices, end
of book)
Browning Engineering Co. (Coal Unloaders,
Car Dumps, etc.), Cleveland, O.
Bruce-Macbeth Engine Co., Cleveland, O.
Buhl Malleable Co., Detroit, Mich.
Caldwell, H. W. & Son Co., Western av &
17th, Chicago, Ill.
CARLIN'S, THOS. SONS CO., 1610
River av (North Side), Pittsburg, Pa. (See
adv. index, end of book)
Carse Bros. Co. (Tramming Plants, etc.), 64
Wabash av, Chicago, Ill.
Conveying Machinery Co., 120 Liberty, New
York
Denver Engineering Works Co., Denver, Col.
Dodge, J. M. Co., Nicetown, Phila., Pa.
Exeter Machine Works, Pittston, Pa.
FAIRBANKS, MORSE & CO., Wabash
av & Eldredge pl., Chicago, Ill. (See adv.
index & branch offices, end of book)
Fairmont Mining Machinery Co. (Of All Kinds),
Fairmont, W. Va.

G. & W. MFG. CO., 26 Cortlandt,
New York. (See adv. index, end of book)
Haiss, Geo. Mfg. Co., 141st & Rider av, New
York

HAYWARD CO., THE, 50 Church,
New York. (See adv. index, end of book)
Helmick Foundry & Machine Co., Fairmont,
W. Va.

Hoover & Mason, 9 Jackson boul., Chicago, Ill.
Howe Scale Co., of Illinois, 1315 Wabash av.,
Chicago, Ill.

Hunt, C. W. Co., West New Brighton, S. I.,
N. Y.
Interstate Engineering Co. (Complete Plants),
Bedford, O.

JEFFREY MFG. CO., Columbus, O.

(See adv. index & branch offices, end of book)
KILGORE-PETELER CO., Minneapolis,

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)

LAMBERT HOISTING ENGINE CO.,
Main Office & Works, 115-121 Poinier, New-
ark, N. J. (See adv. index & branch offices,
end of book)

LIDGERWOOD MFG. CO., 96 Liberty,
New York. (See adv. index & branch of-
fices, end of book)

Link Belt Co., W 39th cor Stewart av., Chi-
cago, Ill., & 299 B'way, New York
McLanahan-Stone Machine Co., Hollidaysburg,
Pa.

McMyler Mfg. Co., Cleveland, O.

Macdonald Engineering Co., Chicago, Ill.

MEAD-MORRISON MFG. CO. (Auto-
matic), Cambridge (Boston) Mass. (See
adv. index & branch offices, end of book)

Milholland, J. & J. B. Co., Pittsburg, Pa.

Mineral Ridge Mfg. Co., Mineral Ridge, O.

NEW JERSEY FOUNDRY & MACHINE
Co., 90 West, New York. (See adv. index
& branch offices, end of book)

Pittsburg Conveying Machinery Co., Pittsburg,
Pa.

Robins Conveying Belt Co., Passaic, N. J.

Sackett, H. B., Screen & Chute Co., 4210
State, Chicago, Ill.

Stephens-Adamson Mfg. Co., Aurora, Ill.

WEBSTER MFG. CO., 1075 W 15th,
Chicago, Ill., & 88 Reade, New York. (See
adv. index & branch offices, end of book)

Wellman-Seaver-Morgan Co. ("Hulett"), Cleve-
land, O.

WESTINGHOUSE ELECTRIC & MFG.
Co., Union Bank bldg, Pittsburg, Pa. (See
adv. index & branch offices, end of book)

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dex & branch offices, end of book)
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Morgan Spring Co., Worcester, Mass.
Nilson, A. H. Machine Co., Bridgeport, Conn.

Coating Machines for Roofing

Moore & White Co., Phila., Pa.

Coating Mill Machinery

Koegel, Ohas. & Son, Holyoke, Mass.
Waldron, Jno. Co., New Brunswick, N. J.

Cockle Machines

Prinz & Rau Mfg. Co., Milwaukee, Wis.

Cocoa Machinery

Carey, Sam'l (Complete Plants), 17 State, New
York

Cocoa Plantation Machinery

Mason, Marcus & Co., Produce Exch, New York

Cocoonut Oil Machinery

Pusey & Jones Co., Wilmington, Del.

Coffee Cooling, Stoning & Elevating Machinery

Lambert Food & Machine Co., Marshall, Mich.

Coffee, Peanut & Cocoa Bean Roast- ing Machines

(See also Peanut & Coffee Roasters)

Abele, Christian (Bean Roasting Machines),
537 W. 50th, New York

Bartholomew Co., Peoria, Ill.

Burns, Jabez & Sons, 542 Greenwich, New York

Dunbar & Co. (Peanut & Pop Corn Roasters),
687 Fulton, Chicago, Ill.

Fraser Mfg. Co., 26 Cortlandt, New York

Hilbert Machine Co., Cincinnati, O.

Howes, S. Co., Silver Creek, N. Y.

Huntley Mfg. Co. ("Monitor" Gas Coffee Roast-
ers, etc.), Silver Creek, N. Y.

Kingery Mfg. Co., Cincinnati, O.

Lambert Food & Machine Co., Marshall, Mich.

Lange, Henry G., 22 N. May, Chicago, Ill.

Malt Wheat Biscuit Co. ("Eureka"), Marshall,
Mich.

Milwaukee Gas Stove Co. (Perfection), Mil-
waukee, Wis.

Prims Machinery Co., Battle Creek, Mich.

Coffee & Rice Cleaning Machinery

Blymyer Iron Works Co., Cincinnati, O.

Farquhar, A. B. Co., York, Pa.

Howes, S. Co., Silver Creek, N. Y.

Huntley Mfg. Co. ("Monitor"), Silver Creek,
N. Y.

Invincible Grain Cleaner Co., Silver Creek, N. Y.

Johnson & Field Mfg. Co., Racine, Wis.

Salem Iron Works (Coffee Only), Winston
Salem, N. C.

SCHULE, F. H. CO., 114-118 Liberty,
New York. (See adv. index, end of book)

Coffee & Rice Plantation Machinery

Blymyer Iron Works Co., Cincinnati, O.

Engelberg Huller Co. (Hullers & Polishers),
Syracuse, N. Y.

Mason, Marcus & Co., 329 Produce Exchange,
New York

Salem Iron W'ks (Coffee Only), Winston Salem,
N. C.

Coffee & Spice Mill Machinery

Burns, Jabez & Sons (Power Machines), 542
Greenwich, New York

Fraser Mfg. Co., 26 Cortlandt, New York

Marcus, Mason & Co., Produce Exch, New York

Coil Taping Machines

(For Armature Coil Taping)

Griswold, Geo. M. Co., New Haven, Conn.

Oliver Elec. & Mfg. Co. ("Precision"), St
Louis, Mo

Ridlon, Frank Co. ("Ridlon"), Boston, Mass.

Smith & Wallace, Woburn, Mass.

Coil Winding Machines

(For Armature & Field Coils)

American General Engineering Co. ("A. G.
E."), 253 B'way, New York

Columbia Machine Works & Malleable Iron Co.
("Columbia"), 269 Chestnut, Brooklyn, N. Y.

Oliver Elec. & Mfg. Co. ("Precision"), St.
Louis, Mo.

Ridlon, Frank Co. ("Ridlon"), Boston, Mass.

Smith & Wallace, Woburn, Mass.

Coin Counting Machines

Coin Counting Machine Co. ("Johnson"), 125
Monroe, Chicago, Ill.

Coin Operating Machines

(See Vending Machines)

Coining Machines

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Ferraente Machine Co., Bridgeton, N. J.

Johnson Iron Works (Ltd.), Julia & Delta, New
Orleans, La.

Coke Crushing Machinery

(See Crushers, Coal & Coke)

Coke Oven Machinery

Phillips, Hine & Hill Supply Co., Pittsburg, Pa.

Scottdale Fdry. & Machine Co., Scottdale, Pa.

Variety Iron & Steel Works Co., Cleveland, O.

Wellman-Seaver-Morgan Co., Cleveland, O.

Cold Punched Nut Machines

National Machinery Co., Tiffin, O.

Cold Roll Pointing Machines (Automatic)

Morgan Construction Co., Worcester, Mass.

SHUSTER, F. B. CO., New Haven,
Conn. (See adv. index, end of book)

Cold Rolling Machines

WRIGHT WIRE CO., Worcester,
Mass.

Cold-Saw Cutting-Off Machines

American Die & Tool Co., Reading, Pa.

Billings & Spencer Co. (Cold & Hot), Hartford,
Conn.

Birdsboro Steel Fdry. & Machine Co. ("Wag-
ner"), Birdsboro, Pa.

Burke Machinery Co., Cleveland, O.

Burr, Jno. T. & Sons, 420 Kent av, Brooklyn,
N.Y.

Cochrane-Bly Co., Rochester, N.Y.

Espen-Lucas Machine Works (High Speed, etc.,
for Steel & Brass Foundry, Forge, Crank-

shafts, Round Bars, I Beams, etc., Solid
or Inserted Tooth Saw Blade), 342 N 15th,
Phila., Pa.

Fischer Foundry & Machine Co. (High Speed,
Heavy), Ford City, Pa.

Ham, L. M. & Co., Boston, Mass.

High Duty Saw & Tool Co. (High Duty), Eddy-
stone, Pa.

Higley Machine Co., Croton Falls, N. Y.

Hill Standard Mfg. Co. ("Hill" Automatic),
Anderson, Ind.

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

Hoefler Mfg. Co., Freeport, Ill.

Hub Machine & Tool Co. ("Acme"), 621 Cherry,
Philadelphia, Pa.

Hulburt-Rogers Machine Co., South Sudbury,
Mass.

Kentucky Gear & Machine Co., Louisville, Ky.

Lea Equipment Co. ("Lea-Simplex"), 90 West,
New York

Mesta Machine Co., Pittsburg, Pa.

Newton Machine Tool Works (Inc.), 2347 Vine,
Philadelphia, Pa.

Nutter, Barnes & Co., 326 A. Boston, Mass.

Pratt & Whitney Co., Hartford, Conn.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)

Quincy - Manchester - Sargent Co. ("Q. & O."
Circular Saws), Plainfield, N. J.

Ryerson, Jos. T. & Son ("Ryerson" High
Speed Friction), 16th & Rockwell, Chicago,
Ill.

Scalfe Foundry & Machine Co. (High Speed up
to 80 H. P.), Pittsburg, Pa.

Smith & Post Co., Milwaukee, Wis.

Torrington Mfg. Co., Torrington, Conn.

United Engineering & Foundry Co. (High Speed,
Heavy), Farmers' Bank bldg, Pittsburg, Pa.

Van Dyck-Churchill Co. ("Higley"), 93 Lib-
erty, New York

Waterbury Farrel Fdry. & Machine Co., Water-
bury, Conn.

Wetherill, R. & Co. (for Steel Foundries) Ches-
ter, Pa.

Cold Saw Sharpening Machines

Higley Machine Co., Croton Falls, N. Y.

Newton Machine Tool Works (Inc.), 2347 Vine,
Philadelphia, Pa.

Smith & Post Co., Milwaukee, Wis.

Cold Swaging Machines

Langelier Mfg. Co., Providence, R. I.

Collar Folding Machines

Interstate Machinery Co., Troy, N. Y.

Collar Seam Dampening Machines

Interstate Machinery Co., Troy, N. Y.

Color Sticking Machines

Stocker, J. W. (For Color Cards, etc.), 510
Schubert av, Chicago, Ill.

Comb & Hair Pin Machinery & Tools

Cook, F. H. & Co. (Horn, Tortoise Shell, Cel-
luloid or Rubber), Leominster, Mass.

Commutator Slotting Machines

Device Improvement Co. ("Peerless"), Han-
over, Pa.

Compressed Yeast Machinery

Erhart, Chris, 1237 W 6th, Cincinnati, O.

Computing Machines

(See also Adding Machines)

Comptograph Co., 146 Blackhawk, Chicago, Ill.
Hamburger, Felix ("Brunsviga"), 78 5th av, New York
Office Men's Record Co. (Goldman's), 145 La Salle, Chicago, Ill.
Squaredral Computer Co., 415 Colorado bldg, Washington, D. C.

Concentrating Machinery

(See Concentrators)

Concrete Brick Machines

(See Cement Brick Machines)

Concrete Building Block Machinery

AMERICAN CONCRETE CO. (Mfrs.)
Agents, 80 William, New York. (See adv. index, end of book)

American Foundry Co., Lelpsc, O.
American Hydraulic Stone Co., Denver, Col.
Anchor Concrete Stone Co., Rock Rapids, Ia.
Architectural Mold Co., Detroit, Mich.
Ashlaud Steel Range & Mfg. Co. ("United States," Face Down), Ashland, O.
Battjes Fuel & Building Material Co., Grand Rapids, Mich.
Besser Mfg. Co. ("Eureka"), Alpena, Mich.
Blakeslee Concrete Block & Machine Co., Columbus, O.
Brandell Concrete Block Machine Co. ("Brandell," Face Down), Madison & Dearborn, Chicago, Ill.
Bovee Grinder & Furnace Works, Waterloo, Brocks, W. S. ("Brooks"), Akron, O.
Burrell Mfg. Co. ("X-L-All"), Bradley, Ill.
Cement Machinery Co. ("Normandin"), Jones bldg, Jackson, Mich.
Century Cement Machine Co. ("Hercules"), Rochester, N. Y.

Clover Leaf Co., South Bend, Ind.
Coltrin, R. B. Mfg. Co., Jackson, Mich.
Concrete Machinery Co., Detroit, Mich.
Concrete Stone & Sand Co. ("Pauley," Wall Machines), Youngstown, O.
Crouch, E. E., Oakland, Kans.
De Armon-McKinney Mfg. Co., Plqua, O.
Detrick, D. F., Dayton, O.
Diamond Cement Machine Co. ("Diamond"), Dletz-Franklin Co., Akron, O.
Dunn, W. E. & Co., 339 Grand av, Chicago, Ill.
Dykema Co., Grand Rapids, Mich.
Edmondson Concrete Machinery Co., South Bend, Ind.

Eichelberger's, T. D. Sons ("Superior"), Dayton, O.
Enterprise Foundry Co. ("Perfection"), Rochester, N. Y.
Enterprise Concrete Machine Co., Central Savings Bank bldg, Baltimore, Md.
Ewing Concrete Machinery Co., Akron, O.
Fate, J. D. Co., Plymouth, O.
Fisher Hydraulic Stone & Machinery Co., Builders' Exchange, Baltimore, Md.
Flour City Cement Block & Machine Co., Minneapolis, Minn.

Francis Machine Co., 710 N 8th, St. Louis, Mo.
Francisco Block Machine Co., Columbus, O.
Goodwin, H. E., 208 Blake, Indianapolis, Ind.
Hall, James P., ft Henderson, Jersey City, N. J.
Hancock Block Machine Co., Lestershire, N. Y.
Hanua Engineering Works ("Schall"), 820 Elston av, Chicago, Ill.
Hartwick Machinery Co. ("Scheiffer"), Jackson, Mich.

Hayden Automatic Block Machine Co. ("Hayden"), Columbus, O.
Hercules Mfg. Co. ("Hercules"), Centerville, Iowa
Hollow Wall Machine Co. ("Monolithic" Reinforced Hollow Wall Machines), Petoskey, Mich.
Howland, E. & Sons ("Howland"), Pontiac, Mich.

Hydraulic Concrete Machine Co., Ellicott sq, Buffalo, N. Y.
Hydraulic Press Co., Mount Gilead, O.
Ideal Concrete Machinery Co. ("Ideal"), South Bend, Ind.
Inman Concrete Building Block Machine Co., Beloit, Wis.

Iowa Building Block Machine Co., Waterloo, Iowa
Johnson Concrete Machine Co. ("Warren"), Sioux City, Ia.
Kells Fdry. & Mach. Co., Adrian, Mich.
Louisville Machine Co., Louisville, O.

Mackay, A. D. & Co. ("Winget"), 100 Wash'n, Chicago, Ill.

Medium Hollow Block Machine Co. (Nels Erickson, Prop.) (Cement, Block & Brick), Minneapolis, Minn.

Miles, P. B. Mfg. Co., 214 S Mechanic, Jackson, Mich.

Miracle Pressed Stone Co. (Sidewalk, Tile, etc.), Minneapolis, Minn.

Modern Concrete Machy. Co., Terre Haute, Ind.

Montfort & Weaver (Gen'l Sales Agts.), 45 Clinton, Newark, N. J.

Moore Plow & Implement Co., Greenville, Mich.

Mulsteln & Wilson, 3d av & De Graw, Brooklyn, N. Y.

Multiplex Concrete Machine Co. ("Multiplex" Hand Lever), Elmore, O.

National Cement Machine Co. ("National"), Bay City, Mich.

National Concrete Machinery Co., Chicago, Ill.

National Hollow Concrete Block & Fire-Proofing Co., 921 P. N W, Washington, D. C.

New Enterprise Concrete Machinery Co. ("Silo" for Continuous Hollow Walls), 92 La Salle, Chicago, Ill.

Newsome Crushed Stone & Quarry Co., Nashville, Tenn.

No Damp Machinery Co. ("No Damp"), Minneapolis, Minn.

Northwestern Steel & Iron Works, Eau Claire, Olson & Richardson, Stoughton, Mich.

Palmer, Hamson S., The, 1450 Bluney, Washington, D. C.

Peerless Brick Machine Co., Minneapolis, Minn.

Pettyjohn Co., Terre Haute, Ind.

Queen City Brick Machine Co., Traverse City, Mich.

Reed Mfg. Co., Springfield, O.

Rempls & Galmeyer Foundry Co., Grand Rapids, Mich.

Rowell, G. D. & Son, Appleton, Wis.

Runyan Concrete Machinery Co. ("Runyan, Jr.," Side & Down Face), Canal Dover, O.

Sanford & Paluter Co. ("Sanford"), Toledo, O.

Schwab, R. J. & Sons Co., Milwaukee, Wis.

Seaman's Cement Brick Machine Co., Grand Rapids, Mich.

Simplex Mfg. Co. ("Simplex"), Jackson, Mich.

Slaby & Grumme ("Reed"), Portland, Ind.

Somers Bros., Urbana, Ill.

South Bend Machine Mfg. Co. ("Standard"), South Bend, Ind.

Standard Machine Co. ("Standard," with Sittling Cones, etc.), Kent, O.

Standard Sand & Machine Co. ("Simplicity"), St. Clair, Cleveland, O.

Stringer Machine Co. (Sewer, Culvert Blocks etc.), Jackson, Mich.

Thayer Cement Block Machine Co., Minneapolis, Minn.

Van Smyth, Manley Construction Co. ("Standard" & "Ureka"), 264 William, New York

Walton Granolithic Co., Kansas City, Mo.

Waterloo Automatic Stone Machine Co., Waterloo, Ia.

Waterloo Concrete Brick & Block Machine Co., Waterloo, Ia.

Wert, C. S. ("Perfect"), Kendallville, Ind.

Wichita Coal & Material Co. ("Reed"), Wichita, Kans.

Winner Block Machine Co. ("Winner"), Minneapolis, Minn.

X. L. Concrete Stone Machine Co., Kansas City, Mo.

Concrete Structural Tile Machines

Concrete Stone & Sand Co. ("Pauley," for Floors, Spans, Partitions, etc.), Youngstown, O.

Condensed Milk Can Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Condensed Milk Machinery

Elgin Mfg. Co. ("Elgin" Rotary Fillers, etc.), Elgin, Ill.

Rogers, C. T. & R. R. Co., 34 Chope pl., Detroit, Mich.

Stickney, Henry R. (Can Filling & Syruping etc.), Portland, Me.

Conductor Pipe & Eave Trough Machinery

Armor Clad Mfg. Co. (Plain & Corrugated), Canton, O.

CANTON FOUNDRY & MACHINE CO. ("Universal"), Canton, O. (See adv. index, end of book)

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Conduit Bending Machines

(See Benders, Conduit)

Confectioners' Machinery

(See also Dough Mixing & Kneading Machinery, Etc.)

American Chocolate Machinery Co., 106 E 16th, New York

Anderson, J. P. & Co. (Mixing Machines, Cutters, Graters, Rools, etc.), 422 N 6th, Phila., Pa.

Annen Candy & Biscuit Co. (Chocolate Dipping Machines, etc.), Green Bay, Wis.

Barbour-Stockwell Co., Cambridgeport, Mass.

Buhr, Plaff & Co. ("Hellman" Candy Rolling Machines, etc.), Cincinnati, O.

Champlon Candy Machine Co. (Cutters, Mixers, Chocolate Dippers, etc.), 3257 Old York rd, Phila., Pa.

Clad, V. & Sons (Cutters, Mixers, Copper Jacket Kettles, Revolving Pans, etc.), 239 S 12th, Phila., Pa.

Collum Mfg. Co. (Candy & Cream Coolers, Cutters, etc.), Hartford, Conn.

Confectioners & Bakers Supply Co. (Machinery Tools & Supplies of all kinds), 218 E Washington, Chicago, Ill.

Confectioners' Mach'y & Mfg. Co., Springfield, Mass.

Crandall & Godley Co., 40 Renwick, New York

Day, J. H. Co. (Bakers', etc.), 1144 Harrison av, Cincinnati, O., & 76 Park pl., New York

Dopp, H. Wm. & Son, Buffalo, N. Y.

Duff, P. & Sons (Brandle & Smith Spinning Machines, etc.), 918 Duquesne, Pittsburgh, Pa.

Echert, P. Co., 27 W Court, Cincinnati, O.

Hellman, Jno. C., C. H. & D. R'y & Gulow, Cincinnati, O.

Hicks, Geo. J. (Bakers' Supplies), 154 Nassau, New York

Hilbert Machine Co., Cincinnati, O.

Hildreth, Herbert L. Co. (Candy Pulling Machines, etc.), Boston, Mass.

Horton, Pembroke D. (Bakers'), 15th & Fairmount, Phila., Pa.

Kingery Mfg. Co., 131 E Pearl, Cincinnati, O.

Lange, Henry G., 22 N May, Chicago, Ill.

Magg, August Co. (Freezers, Tools & Supplies, etc.), Baltimore, Md.

Marquette, John N. (Marshmallow Machines), 509 S Eden, Baltimore, Md.

Mills, Thos. & Bro. (Mixers, Cutters, Freezers, etc.), 3108 N 4th, Phila., Pa.

Racine Engine & Machinery Co. (Chocolate Mixers, Cream Beaters, etc.), Racine, Wis.

Rittenhouse, Frank (Nougat Cutting Machines, etc.), Norristown, Pa.

Rockwell, L. A. ("Bakers"), 9 Elizabeth, New York

Savage Bros. Co. (Mixers, Chewing Gum Machines, Revolving Pans etc.), 42 Michigan, Chicago, Ill.

Scientific Bread Machine Co. (Bread Mixing & Kneading Machinery), 52d & Media, Phila., Pa.

Standard Candy Machine Co. ("Igou" Candy Pullers & Kiss Wrappers, etc.), Columbus, Traud, Alex. Co., Newark, N. J.

Thomson, C. A. Machine Co. (Bakers'), Belleville, N. J.

Watkins, Jas. Y. & Son, 16 Catharine, New York

Werner, Jno. Machine Works (Labor Saving Confectionery Machines), Rochester, N. Y.

Connecting Rod Boring Machines

Prentice Bros. Co. (Locomotive), Worcester, Mass.

Conveying Machinery

(See Elevating & Conveying Machinery; also Conveyors of Various Kinds)

Cooperage Machinery

(See Barrel, Keg, Stave & Heading Machinery)

Coping Machines

Bertsch & Co., Cambridge City, Ind.

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

Ham, L. M. & Co. ("Ham's"), Boston, Mass.

Long & Allstatter Co. (Beam Coping, etc.), Hamilton, O.

Williams, White & Co. (Coping & Punching Machines), Moline, Ill.

Copper Converting Machinery

Alliance Machine Co., Alliance, O.
ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)

Copper Working Machinery

Portage Lake Foundry & Machinery Co., Hancock, Mich.

Cord Wood Sawing & Splitting Machines

(See Kinds of Wood Machinery)

Cordage Machinery

Birch Bros. (Rope), Somerville, Mass.
 Brownell, G. L. (for Twisting & Spinning, for Twines, Lines & Cordage, from all Materials), Worcester, Mass.
 Flanagan-Zabriskie Co., Paterson, N. J.
 Haskell-Dawes Machine Co., 176 Federal, Boston, Mass. Works, Frankfort Jet., Phila., Pa.
 Hoover & Gamble Co. (Hard Fibre, Sisal & Manila, Cordage & Twine), Miamisburg, O.
 Kelly, R. A. Co. (Cordage), Xenia, O.
 Lockwood Mfg. Co. (Also Binder Twine & Rope), 61 Sumner, E. B., Boston, Mass.
 Watson Machine Co., Paterson, N. J.

Core Box Cutting Machines

HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)
 Portland Co. ("Thomes"), Portland, Me.

Core Making Machines

Brown Specialty Machinery Co. ("Hammer"), Jackson boul. & Clinton, Chicago, Ill.
 Demmler, Wm. & Bros., Kewauuee, Ill.
 Diamond Clamp & Flask Co., Richmond, Ind.
 Falls Rivet & Machine Co. ("Wadsworth" Improved), Onyaho Falls, O.
HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)
 Venango Mfg. Co., Franklin, Pa.

Core Tapering Machines

Brown Specialty Machinery Co., Jackson boul. & Clinton, Chicago, Ill.
HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)

Cork Cutting Machinery

Barber, M. A., Norwich, Conn.

Cork Machinery

Blickendefer, Richard, Lancaster, Pa.

Cork Sticking Machines

Girard Machine Works (Inc.), 2616 Girard av. Phila., Pa.

Corking Machines

(See Bottle Corking Machines)

Corking Machines (Preservers')

VILTER MFG. CO., 1046 Clinton,
 Milwaukee, Wis. (See adv. index, end of book)

Corn Cutting Machines

Morrall Bros., Morrall, O.
SPRAGUE CANNING MACHINERY
 Co. (For Cannery), 5 Wabash av., Chicago, Ill. (See adv. index, end of book)

Corn Mill Machinery

Howes, S. Co., Silver Creek, N. Y.
 Huntley Mfg. Co. (Monitor), Silver Creek, N. Y.
 Invincible Grain Cleaner Co., Silver Creek, N. Y.
 Salem Foundry & Machine Works, Salem, Va.
SCHULE, F. H. CO., 114-118 Liberty,
 New York. (See adv. index, end of book)
SPROUT, WALDRON & CO., Muncy,
 Pa. (See adv. index, end of book)
 Starr, B. F. Co., 455 North, Baltimore, Md.
 Wolf Co., Chambersburg, Pa.

Corn Mixing Machines

Prims Machinery Co., Battle Creek, Mich.
SPRAGUE CANNING MACHINERY
 Co. (For Cannery), 5 Wabash av., Chicago, Ill. (See adv. index, end of book)

Corn Oil Machinery

Buckeye Iron & Brass Wks., Dayton, O.
 Callahan, W. P. & Co., 901 E. 3d, Dayton, O.
ELVES, CHAS. F. ENGINEERING
 Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)
 French Oil Mill Machinery Co., Piqua, O.
SCHULE, F. H. CO., 114-118 Liberty,
 New York. (See adv. index, end of book)

Corn Silking Machines

Morrall Bros., Morrall, O.
 Sinclair-Scott Co., Baltimore, Md.
SPRAGUE CANNING MACHINERY
 Co. (For Cannery), 5 Wabash av., Chicago, Ill. (See adv. index, end of book)

Corn Splitting Machines

Eureka Fence Mfg. Co. ("Poindexter"), Richmond, Ind.

Cornice Makers' Machinery

(See also Sheet Metal Workers' Machines & Tools)
 Double Truss Cornice Brake Co., Buffalo, N. Y.
 Keene, Geo. C. & Co., Cincinnati, O.
 Loy & Nawrath Co., Newark, N. J.
NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of book)
 Ohl, Geo. A. & Co. Automatic Power Brakes, etc., 157 Oraton, Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Robinson, J. M. Mfg. Co., Cincinnati, O.

Corporation Cock Inserting Machines

Smith, A. P. Mfg. Co. (For Water Works), Newark, N. J.

Corrugating Machines

(See also Sheet Metal Workers' Machines & Tools)

BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Keene, Geo. C. & Co., Cincinnati, O.
 Lewis Foundry & Machine Co., Coraopolis, Pa.
NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of book)
 Peck, Stow & Wilcox Co., Southington, Conn.
 Robinson, J. M. Mfg. Co., Cincinnati, O.
 United Engineering & Foundry Co., Farmers Bank bldg., Pittsburg, Pa.

Corset Machinery

Adams, A. L., Bridgeport, Conn.

Cotter Pin Machinery

Manville Bros. Co., Waterbury, Conn.
 Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.
SHUSTER, F. B. CO. (Automatic),
 New Haven, Conn. (See adv. index, end of book)

Cotton Ginning Machinery

Adams, W. T. Machine Co. (Handles), Corinth, Miss.
 Avery, B. F. & Sons (Handles), Louisville, Ky.
 Brown Cotton Gin Co., New London, Conn.
 Carver Cotton Gin Co., East Bridgewater, Conn.
 Chickasaw Iron Works (Handles), Memphis, Tenn.
 Continental Gin Co. (Hand & Power), Bridge-water, Mass.
 Continental Gin Co., Birmingham, Ala.; Prattville, Ala.; Atlanta, Ga.; East Bridgewater, Mass.
 Gantt Mfg. Co., Macon, Ga.
 Georgia Agricultural Works (Georgia Centennial Cotton Gin, Feeder & Condenser, Suction Elevators & Other Cotton Ginning Specialties), Fort Valley, Ga.
 Gullett Gin Co., Anite City, La.
 Kelly Plow Co. (Handles), Longview, Texas
 Liddell Co., Charlotte, N. C.
 Lummus, F. H. Sons & Co., Columbus, Ga.
 Means, J. L. Machinery Co. (Handles), Shreveport, La.
 Murray Co., Dallas, Texas
 Southern Engine & Boiler Works (Inc.) (Handles), Jackson, Tenn.
 Thomas-Fordyce Mfg. Co., Little Rock, Ark.
 Tompkins, D. A. Co. (Handles), Charlotte, N. C.
 Valk & Murdock Iron Works, Charlestown, S. C.
 Van Winkle Gin & Machine Co., Atlanta, Ga.
 White, S. R. & Bro. (Handles), Norfolk, Va.

Cotton Machinery

(See Textile Machinery, etc. For page number consult Index of Contents)

Cottonseed Oil Machinery

American Machine & Mfg. Co., Charlotte, N. C.
 Boomer & Boschert Press Co., Syracuse, N. Y.
 Brown Cotton Gin Co., New London, Conn.
 Buckeye Iron & Brass Works (Also Linseed), Dayton, O.
 Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
 Callahan, W. P. & Co. (Linseed & Corn Also), Dayton, O.
 Carver Cotton Gin Co., East Bridgewater, Mass.
 Cardwell Machine Co., Richmond, Va.
 Columbus Machinery & Foundry Co., Columbus, Miss.
 Continental Gin Co. (Linter Feeders, Condensers, Presses, etc.), Birmingham, Ala. & Bridge-water, Mass.
 Foos Mfg. Co. (Crushers, Separators, Shakers & Cleaners), Springfield, O.
 French Oil Mill Machinery Co., Piqua, O.
 Fritze, Geo. J. Foundry & Machine Co., 2008 S. 3d, St. Louis, Mo.
PLATT IRON WORKS CO. (Also Linseed), Dayton, O. (See adv. index & branch offices, end of book)
SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)
SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)
 Van Winkle, E. Gin & Machine Works, Atlanta, Ga.
WEBSTER MFG. (Reels, Beaters, Shakers, etc.), 1075 W 15th, Chicago, Ill. & 88 Reade, New York. (See adv. index & branch offices, end of book)

Counting Machines

Durant, W. N. Co., Milwaukee, Wis.
 Grant Mfg. & Machine Co., Bridgeport, Conn.
 National Scale Co. ("National," Counting & Weighing), Chicopee Falls, Mass.
 Reliance Counter Co. ("Reliance"), Milwaukee, Wis.
 Root, Chas. J. ("Elm City," "Bristol," "Root"), Bristol, Conn.

Coupling Bending Machines

United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank bldg., Pittsburg, Pa.

Coupling Expanding Machines

Union Foundry & Machine Co., Pittsburg, Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Coupling Rolling Machines

Union Foundry & Machine Co., Pittsburg, Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Coupling Tapping Machines

United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Cracker & Biscuit Machinery

Champlon Machinery Co., Joliet, Ill.
 Harton, Pembroke D., Fairmount av. & 15th, Philadelphia, Pa.
 Rotb-McMahon Co., South Evansville, Evansville, Ill.
WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)

Crank Boring Machines

Niles-Bement-Pond Co., 111 B'way, New York

Crank Pin Turning Machines

Clyde Machine Works ("The Clover"), 3913 Union av., Chicago, Ill.
 Stow Flexible Shaft Co., 26th & Cullowhill, Phila., Pa.
 Tindel-Morris Co. (Crank Pin Lathes), Eddystone, Pa. & Ellwood City, Pa.
 Underwood, H. B. & Co. (Portable), 1023 Hamilton, Phila., Pa.

Crate Machinery

Chase Turbine Mfg. Co., Orange, Mass.
 Merritt Mfg. Co., Lockport, N. Y.
 Saranac Machine Co. ("Advance" Stapling Machines), St. Joseph, Mich.

Crate Slat Cutting Machines

Trevor Mfg. Co., Lockport, N. Y.

Cream Whipping Machines

Montani & Co., 1147 1st av, New York

Creamery Machinery

(See also Separators, Cream)

Barclay, D. F. (and Supplies), Elgin, Ill.
 Burrell, D. H. & Co., Little Falls, N. Y.
 Chapman, C. L., Erie, Pa.
 Creamery Package Mfg. Co., 182 E Kinzie, Chicago, Ill.
 Dairy Machinery & Cons. Co., Derby, Conn.
 Dairy Specialty Co. (Combined Churn & Butter Worker, Babcock Milk Tester, Milking Machines, etc.), Westchester, Pa.
 De Laval Separator Co., 74 Cortlandt, New York
 Dobson Mfg. Co., Rockford, Ill.
 Fargo Creamery Supply House, Lake Mills, Wis.
 Hendy, Joshua Machine Works, 38 Fremont, San Francisco, Cal.
 Jones, Frank L., Utica, N. Y.
 Moseley & Prichard Mfg. Co., Clinton, Ia.
 National Dairy Machine Co., Newark, N. J.
 Oakes & Burger, Cattaraugus, N. Y.
 Read, A. H. Creamery & Dairy Supply Co., 69th & Haverford, Phila., Pa.
 Sharpless Separator Co., 32 S Canal, Chicago, Ill.
 Stoddard Mfg. Co., Rutland, Vt.
 Vermont Farm Machine Co., Bellows Falls, Vt.

Creasing Machines (Paper, Cloth & Strawboard)

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. index & branch offices, end of book)

Crimping Machines for Tops on Tooth Powder Boxes

American Can Co., 135 Adams, Chicago, Ill.

Crimping & Beading Machines

(See also Sheet Metal Workers' Machines & Tools)

American Can Co. ("Rudolph" & "Krummel"),
 135 Adams, Chicago, Ill.
BLISS, E. W. CO. (for Canmakers,
 etc.), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

CANTON FOUNDRY & MACHINE CO.

("Universal" Beading, for Eave Troughs),
 Canton, O. (See adv. index, end of book)

Eclipse Machine Co., Troy, N. Y.

Hibbard, Wm. H. Mfg. Co. (Beading Machines Only), 79 Washington, Brooklyn, N. Y.

Keene, Geo. C. & Co., Cincinnati, O.

Leffler, Chas. & Co. (For Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.

Loy & Nawrath Co., Newark, N. J.

NIAGARA MACHINE & TOOL W'KS,

Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.

Robinson, J. M. Mfg. Co., Cincinnati, O.

Slaysman & Co. (Canmakers' Crimping), 718 E Pratt, Baltimore, Md.

Swaine, Fred J. Co., St. Louis, Mo.

Cross Cut Sawing Machines

Farquhar, A. B. (Ltd.), York, Pa.

Cupel Machines

Braun, F. W. ("Braun" Produce Homogeneous Cupels), Los Angeles, Cal.

Curled Hair Machinery

Hood, R. H., 1842 Germantown av, Phila., Pa.

Curtain Pole Machines

Bentel & Margedant Co., Hamilton, O.

Heath, W. A. Machine Co., Lestershire, N. Y.

Merritt Mfg. Co., Lockport, N. Y.

Smith, H. B. Machine Co., Smithville, N. J.

Curtain Pole Sanding & Finishing Machines

Bentel & Margedant Co., Hamilton, O.

Pringle & Brodie Machinery Co., 277 S Canal, Chicago, Ill.

Cutlery Machinery

Oakes & Burger (Cheese Knives, etc.), Cattaraugus, N. Y.

Cutlery Polishing Machines

Dill Mfg. & Trading Co., 663 E 183d, New York

Cutting Machines (for Fabrics)

CAMERON MACHINE CO., 61 Poplar,
 Brooklyn, N. Y. (See adv. index, end of book)

Cutting-Off Machines (Cold Metal)

See Metal Cutting-Off Machines; also Cold Saw Cutting-Off Machines)

Cutting-Off Machines (Wood)

(See Wood Cutting-Off Machines)

Cutting & Punching Machines

BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
Ohl, Geo. A. & Co. (One Operation for Cutting
 and Punching Strips of Tin, Iron, Fibre,
 etc.), 88 McWhorter, Newark, N. J.

Cyanide Machinery

(See Cyanide Plants)

Cylinder Boring Machines

Baker Bros., Toledo, O.
 Barrett Machine Tool Co., Meadville, Pa.
 Beamant & Smith Co., Providence, R. I.
 Binsee Machine Co., Newark, N. J.
 Cincinnati-Bickford Tool Co., Cincinnati, O.
ELMES, CHAS. F. ENGINEERING
 Works, c Fulton & Sangamon, Chicago, Ill.
 (See adv. index, end of book)

Fisher Machine Works (Portable for Re-Boring),
 Leavenworth, Kan.

FREVERT MACHINERY CO., 18 Dey,

New York. (See adv. index, end of book)

Jones, W. A. Foundry & Machine Co., 143 W

North av, Chicago, Ill.

Mathews, Hugh (Portable Re-Boring Bars),

Kansas City, Mo.

Newton Machine Tool Works, 2347 Vine, Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York

Prentice Bros. & Co., Worcester, Mass.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Stow Flexible Shaft Co. (Portable), Phila., Pa.

Underwood, H. B. & Co. (Portable), 1025 Ham-

ilton, Phila., Pa.

Dado Machines

American Woodworking Machinery Co., Rochester, N. Y., & West St. bldg, New York

Bentel & Margedant Co., Hamilton, O.

Cordesman, Rechin Co., Cincinnati, O.

New Britain Machine Co., New Britain, Conn.

Power, L. & Co. (Combination Saw & Dado

Machines), 20 S 23d, Phila., Pa.

Yerkes & Finnan Woodworking Machine Co.

(Combination Saw & Dado Machines), St. Louis, Mo.

Damasking Machines

STARK TOOL CO. ("Stark," Auto-
 matic), Waltham, Mass. (See adv. index, end of book)

Dating Machines

AMERICAN RAILWAY SUPPLY CO.,

26 Park pl., New York. (See adv. index, end of book)

Bates Machine Co. ("Bates" Automatic), 696

Jamaica av, Brooklyn, N. Y.

Hanson, C. H., 44 Clark, Chicago, Ill.

Peerless Stamp & Stencil Co., Muncie, Ind.

Girard Machine Works (Inc.), 2616 Girard av,

Phila., Pa.

Die Chamfering Machines

Hartford Machine Screw Co., Hartford, Conn.

Die Plate Hammering Machines

Bates Machine Co., Joliet, Ill.

Die Sinking Machines

Cook, Asa C. Co., 80 Huyshope av, Hartford, Conn.

Crane, W. W. Foundry & Machine Works, Auburn, N. Y.

FREVERT MACHINERY CO., 18 Dey,

New York. (See adv. index, end of book)

Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.

Perkins, Henry Co. (Die Making), Bridge-

water, Mass.

Pratt & Whitney Co., Hartford, Conn.

Royle, Jno. & Sons (Inc.), Paterson, N. J.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Die Sinking & Milling Machines (Combined)

Newton Machine Tool Works (Inc.), 2347 Vine,
 Phila., Pa.

Die Slotting Machines

Garvin Machine Co., 137 Varick, New York

Digging Machinery

(See Ditching Machines; also Shovels, Steam)

Digging Machinery (Canal)

(See also Shovels, Steam)

HAYWARD CO., THE, 50 Church,
 New York. (See adv. index, end of book)

Disc Grinding Machines

(See Grinders, Disc)

Disc Making Machines

Krips-Mason Machine Co., 1636 N Hutchinson,
 Phila., Pa.

Disc Notching Machines (Armature)

(See Armature Disc Notching Machines)

Disc Sanding Machines

Bentel & Margedant Co. (Single & Double),
 Hamilton, O.

Oliver Machinery Co. (Pattern Makers, etc.),
 Grand Rapids, Mich.

Dish Washing Machines

Blakeslee, G. S. & Co., 325 Dearborn, Chicago,
 Ill., & 260 W B'way, New York

Bodell, A. W. ("Cyclone"), 27 S Clinton, Chi-
 cago, Ill.

Buffalo Dish Washer Co., Buffalo, N. Y.

Crammond Mfg. Co., Waukegan, Ill.

Fearless Dish Washer Co., Rochester, N. Y.

Garis-Cochrane Mfg. Co., Auditorium bldg, Chi-
 cago, Ill.

Gill, P. H. & Sons, Lorraine & Orsego, Brook-

lyn, N. Y.

Hamilton-Low Co. ("Vortex"), 145 E 42d, New

York

Insinger Co., Stenton av, above Wayne Jct.,

Phila., Pa.

Keeler Mfg. Co. ("Santo"), 21st & Allegheny

av, Phila., Pa.

Mound City Dish Washer Co., 1756 Waverly pl.,

St. Louis, Mo.

National Dish Washer Co. ("Little Giant"),

Binghamton, N. Y.

Parish Machine Co. ("Excelsior"), 742 E 12th,

New York

Success Dish Washing Machine Co., Wooster,

Ohio

Wrought Iron Range Co., St. Louis, Mo.

Disinfecting Machinery

Kny-Scheerer Co., 289 9th av, New York

McLauthlin, Geo. T. Co., 120 Fulton, Boston,
 Mass.

Vogel, Wm. & Bros. (Automatic Drip), 37 S
 9th, Brooklyn, N. Y.

Distillers' Machinery

KAESTNER & CO. (Inc.), 241 S Jef-
 ferson, Chicago, Ill. (See adv. index, end of book)

Nordyke & Marmon Co., Indianapolis, Ind.

SCHULE, F. H. CO., 114-118 Liberty,
 New York. (See adv. index, end of book)

Straub Machinery Co., Cincinnati, O.

Ditching Machines

(See also Road Machines & Graders; also Road
 Scrapers, Drag & Wheel; also Shovels,
 Steam; also Ditching Machines, Traction)

American Road Machine Co., Kennett sq, Pa.

Austin, F. C. Drainage Excavator Co., R'y

Exch bldg, Chicago, Ill.

Austin Mfg. Co., Manhattan bldg, Chicago, Ill.

Bucyrus Co., South Milwaukee, Wis.

Edwards, C. D. (Ditching Machinery), Albert

Lea, Minn.

Enterprise Mfg. Co., Columbiana, O.

Fairbanks Steam Shovel Co., Marion, O.

Good Roads Machinery Co., Kennett sq, Pa.

Grant, John Ship Yards (For Irrigation Work,
 etc.), Stockton, Cal.

HAYWARD CO., THE, 50 Church,
 New York. (See adv. index, end of book)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER Co., Minneapolis, Minn. (See adv. index, end of book)
 Mahoney Railroad Ditching Machine Co. (Railroad), Vincennes, Ind.
 Mayer Bros. (Inc.) ("Mayer" Straddle), Mankato, Minn.
 Municipal Engineering & Contracting Co., R'y Exch bldg, Chicago, Ill.
 Osgood Dredge Co., Albany, N. Y.
 Russell Grader Mfg. Co. ("Russell" Grader & Ditcher), Minneapolis, Minn.
 Smith & Sons Mfg. Co., Kansas Cit., Mo.
 Stacey, Wm., Iowa Falls, Iowa
 Vulcan Iron Works, Toledo, O.
 Western Wheeled Scraper Co., Aurora, Ill.

Ditching Machines (Railroad)

(See also Ditching Machines; also Shovels, Steam)

Austin Mfg. Co., Manhattan bldg, Chicago, Ill.; Works: Harvey, Ill.
 Buckeye Traction Ditcher Co. ("Buckeye" Traction Ditcher), Findlay, O.
 Bucyrus Co., South Milwaukee, Wis.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Mahoney Railroad Ditching Machine Co., Vincennes, Ind.
 Marion Steam Shovel Co., Marion, O.
 Mayer Bros. (Inc.) ("Mayer" Straddle), Mankato, Minn.
 Municipal Engineering & Contracting Co. R'y Exchange bldg, Chicago, Ill.
 Western Wheeled Scraper Co., Aurora, Ill.

Ditching Machines (Traction)

(See also Ditching Machines)

Buckeye Traction Ditcher Co. ("Buckeye"), Findlay, O.
 Van Buren, Heck & Marvin Co. ("Buckeye"), Findlay, O.

Double Seaming Machines

(See also Sheet Metal Workers' Machines & Tools)

American Can Co ("Rudolph" & "Krummel," for Tin & Sheet Metal Work), 135 Adams, Chicago, Ill.
 Ams, Max Machine Co. (For Round Cans), Mount Vernon, N. Y.
 Atwood-Morrison Co., Stonington, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
 Keene, Geo. C. & Co., Cincinnati, O.
 Leffler, Chas. & Co. (For Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.
NIAGARA MACHINE & TOOL Works ("Hulbert's"), Buffalo, N. Y. (See adv. index, end of book)
 Peck, Stow & Wilcox Co., Southington, Conn.
 Robinson, J. M. & Co., Cincinnati, O.
 Swaine, Fred. J. Co., St. Louis, Mo.
 Toledo Machine & Tool Co., Toledo, O.
 Zeh & Hahnemann, Vanderpool & Av A, Newark, N. J.

Dough Dividing Machines

American Oven & Machine Co., 40 Dearborn, Chicago, Ill.
 Champion Machinery Co. ("Champion"), Joliet, Ill.
 Dutchess Tool Co. ("Van Houten" Automatic), Fishkill on Hudson, N. Y.
 Katzinger, Edw. Co. ("Ekco" Automatic), 11 S Peoria, Chicago, Ill.
 Lynn-Superior Co., Cincinnati, O.
 Thomson, C. A. Machine Co. ("Goudy" Automatic), Belleville, N. J.
 Triumph Mfg. Co. ("Triumph"), Cincinnati, O.
 Werner & Pfeleiderer ("W. & P."), Saginaw, Mich.
 Zoeller, Wm. ("36 Part"), 83 N Curtis, Chicago, Ill.

Dough Mixing & Kneading Machinery

American Oven & Machine Co. ("New Era"), 40 Dearborn, Chicago, Ill.
 Atlantic Stamping Co., Rochester, N. Y.
 Champion Machinery Co., Joliet, Ill.
 Day, J. H. Co., Cincinnati, O.
 Fowler, Richard E. & Co. ("Paragon"), Hanover, Pa.
 Gem Mfg. Co. ("Knead Full Breadmaker"), Everett, Mass.
 Hicks, Geo. J. (Inc.), 103 Chambers, New York
 Joliet Machinery Co. ("Gearless"), Joliet, Ill.



Landers, Frary & Clark ("Universal"), New Britain, Conn.
 Lynn-Superior Co. ("Superior," "Rapid"), Cincinnati, O.
 Manning, Bowman & Co. ("Eclipse"), Meriden, Conn.
 Norrish, Burnham & Co. (Inc.), Glen Rock, Pa.
 Oelman & Co., Detroit, Mich.
 Pritchard, Strong Mfg. Co., Rochester, N. Y.
 Rockwell, L. A., 9 Elizabeth, New York
 Ruttkamp-Minke Co. ("Ruttkamp"), Jersey City, N. J.
 Stowell Mfg. & Foundry Co., Milwaukee, Wis.
 Superior Tool & Supply Co. ("Superior" Double), 500 E Front, Cincinnati, O.
 Triumph Mfg. Co. ("Triumph," "Perfect"), Cincinnati, O.
WERNER & PFLEIDERER (78 Different Classes & Types), Saginaw, Mich. (See adv. index, end of book)

Dough Moulding Machines

Thomson, C. A. Machine Co. ("Thomson," Combination Roll), Belleville, N. J.
 Triumph Mfg. Co., Cincinnati, O.
WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)

Doughnut Machinery

Butter Cream Doughnut Machine Co., Kansas City, Mo.
 Megson, R. & Co., Boston, Mass.

Dovetailing Machines

ADVANCE MACHINERY CO. (Gang), Toledo, O. (See adv. index, end of book)
 American Steam Pump Co. ("Boults"), Battle Creek, Mich.
 Bentel & Margedant Co., Hamilton, O.
 Dadds, Alexander (Gang), Grand Rapids, Mich.
 Dovetail Box Machine Co. (For Dovetail Boxes, etc.), St. Paul, Minn.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Fischer, E. Machine Works (Single), 710 Carroll av, Chicago, Ill.
 Goodspeed Machine Co. ("Stimpson's"), Winchendon, Mass.
 Yerkes & Finan Woodworking Machine Co. (Gang, etc.), St. Louis, Mo.

Dowel Door Machinery

Hayes, E. B. Machine Co., Oskosh, Wis.

Dowel Machines

(See Rod, Pin & Dowel Machinery)

Drafting Machines

Universal Drafting Machine Co., Blackstone bldg, Cleveland, O.

Drain Tile Machinery

American Clay Machinery Co., Bucyrus, O.
 Anderson Fdry & Mach. Works, Anderson, Ind.
 Arnold-Creager Co., New London, O.
 Bonnot Company, Canton, O.
 Brewer, H. & Co., Tecumseh, Mich.
 Cement Tile Machinery Co. ("Schenck"), Waterloo, Iowa
 Fate, J. D. Co., Plymouth, O.
 Freese, E. M. & Co., Gallon, O.
 Ideal Fence Co., Adrian, Mich.
 Kells Foundry & Machine Co., Adrian, Mich.
 Madden & Co. (Augur Tile Machines), Rushville, Ind.
 Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.
 Michigan Brick & Tile Machine Co., Morenci, Mich.
 Raymond, C. W. Co., Dayton, O.
 Smith, F. L. & Co., 50 Church, New York
 Wallace Mfg. Co., Frankfort, Ind.

WETHERILL BROS. MACHINE CO.

CHESTER, PA.

Hydraulic Dredges

AND

Dredging Machinery

ENGINEERS AND MACHINISTS

Draw Bridge Machinery

(See also Bridge Machinery for Bascule Bridges)

Currier, Cyrus & Sons, Newark, N. J.
 Edwards, Jos. & Co. (For Opening Draw Bridges), 414 Water, New York
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
FAWCUS MACHINE CO., 2820 Small-man, Pittsburg, Pa. (See adv. index, end of book)
 Interstate Engineering Co., Bedford, O.
 Nichols, Geo. P. & Bro. (Electric & Equipments), Old Colony bldg, Chicago, Ill.
 Smith, Augustus, 149 B'way, New York
 Smith, Theodore & Sons Co., ft of Essex, Jersey City, N. J.

Drawer Fitting Machines

Bentel & Margedant Co. (For Fitting & Sizing Drawers), Hamilton, O.

Dredging Machinery

(See also Excavators, Steam; also Excavating Machinery)

Atlantic Equipment Co., 30 Church, New York
 Atlantic, Gulf & Pacific Co., Park Row bldg., New York, & San Francisco, Cal.
 American Steel Dredge Works, Logansport, Ind.
 Bartlett, A. F. & Co., Saginaw, Mich.
 Beatty, M. & Sons, Welland, Ontario, Canada
 Bellefontaine Foundry & Machine Co., Bellefontaine, O.
 Browning Engineering Co., Cleveland, O.
 Bucyrus Co., South Milwaukee, Wis.
 Codd, E. J. Co., 700-708 S Carpoline, Baltimore, Md.
 Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
ELLCOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)
 Fairbanks Steam Shovel Co. (Steam Dredges), Marion, O.
 Featherstone Foundry & Machine Co., 303 Railway Ex., Chicago, Ill.
FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)
 Globe Iron Works (Inc.), Stockton, Cal.
 Golden State & Miners' Iron Works, San Francisco, Cal.
 Grant, John Ship Yards (For Reclamation & River Work), Stockton, Cal.
 Hammond Mfg. Co. (Inc.), Portland, Ore.
 Hardie Tynes Mfg. Co., Birmingham, Ala.
 Hayes Machine Co. (Inc.), Kingston, N. Y.
HAYWARD CO., THE, 50 Church, New York. (See adv. index, end of book)
 Jackson & Church Co., Saginaw, Mich.
 Krogh Mfg. Co., San Francisco, Cal.
 Marion Steam Shovel Co., Marion, O.
 Mayer Bros. (Inc.) (Steam Dredges), Mankato, Minn.

Municipal Engineering & Contracting Co., R'y Exch bldg, Chicago, Ill.
 New York Engineering Co., 2 Rector, New York
 Ohio Steam Shovel Co. (Dipper Dredges, etc.), Toledo, Ohio
 Osgood Dredge Co., 37 State, Albany, N. Y.
 Portland Co., Portland, Me.
 Risdon Iron & Locomotive Works, Stewart c Folsom, San Francisco, Cal.
 Smith, Theo. & Sons Co., foot of Essex, Jersey City, N. J.
 Stockton Iron Works (Portable), Stockton, Cal.
 Superior Iron Wks., Superior, Wis.
 Toledo Foundry & Machine Co., 202 Cherry, Toledo, O.
 Treadwell, M. H. Co., 90 West, New York; Works: Lebanon, Pa.
 Urle-Snyder Iron Works Co., Kansas City, Mo.

Vulcan Iron Works, 59 Milwaukee av, Chicago, Ill.
 Vulcan Steam Shovel Co. (Bucket & Dipper Dredges), Toledo, O.
WETHERILL BROS. MACHINE CO. (Hydraulic, Suction, etc.), Chester, Pa. (See adv. index, end of book)
 Willamette Iron & Steel Works, Portland, Ore.

Dredging Machinery (Hydraulic)

Atlantic Gulf & Pacific Co., 15 Park row, New York
 Bucyrus Co., S Milwaukee, Wis.
 Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
 Edwards, Jos. & Co., 414 Water, New York
ELLICOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)
 Great Lakes Engineering Works, Detroit, Mich.
 Risdon Iron & Locomotive Works, Stewart & Folsom, San Francisco, Cal.
 Springfield Boiler & Mfg. Co., Springfield, Ill.
 Treadwell, M. H. Co., 90 West New York Works, Lebanon, Pa.

WETHERILL BROS. MACHINE CO., Chester, Pa. (See adv. index, end of book)

Drill Sharpening Machines

Shaw, C. H. Pneumatic Tool Co. ("Shaw," for Air Rock Drills, etc.), Denver, Colo.

Drilling Machines

(See Drills of Various Kinds; also classifications of Drilling Machines immediately following)

Drilling Machines (Bit Brace)

McCrea, Jas. & Co. ("Century"), 67 W Wash'n, Chicago, Ill.

Drilling Machines (Cotter & Key-Seat)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Drilling Machines (Horizontal)

(See Drills, Various Kinds)

Drilling Machines (Multiple)

(See Drills, Multiple Spindle)

Drilling Machines (Pipe Pressure)

Mueller, H. Mfg. Co. ("The Eley"), Decatur, Ill.

Drilling Machines (Rivet)

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Drilling & Countersinking Machines

Bansh Machine Tool Co., Springfield, Mass.
 Detrick & Harvey Machine Co. (Radial), Baltimore, Md.
 Fitchburg Machine Works, Fitchburg, Mass.
 Reade Machine Co. (Radial), Cleveland, O.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Drilling & Milling Machines (Combined)

Knight, W. B. Machinery Co. ("Knight"), St. Louis, Mo.

Drilling & Tapping Machines

American Tool Works Co., Cincinnati, O.
 Aurora Tool Works, Aurora, Ind.
 Baker Bros., Toledo, O.
 Cincinnati Blackford Tool Co. (Upright, Heavy Pattern), Cincinnati, O.
 Fay Machine Tool Co. (Drilling, Threading & Tapping), 2d & Glenwood av, Phila., Pa.
 Gardam, Wm. & Son (Inc.), 221 Fulton, New York
 Garvin Machine Co., 137 Varick, New York
 Gould & Eberhardt, Newark, N. J.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Stow Mfg. Co. (Portable), Binghamton, N. Y.

Drilling & Tapping Machines (Combined)

Anderson Machine Works (For Water Backs for Stoves & Ranges, etc.), Peekskill, N. Y.
 Bansh Machine Tool Co., Springfield, Mass.
 Gardam, Wm. & Son (Inc.), 221 Fulton, New York
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.

Drop Forging Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Drying Machinery

(See Dryers, Various Kinds)

Drying Machines (Chemical)

(See Dryers, Various Kinds)

Duck Slitting Machines

Thropp, William R., Trenton, N. J.

Duplicating Machines

(See Duplicators)

Dye Wood Chipping Machines

Hayes Machine Co. (Inc.), Kingston, N. Y.

Dyeing Machinery

(See Textile Machinery)

Eave Trough Hanger Machines

Birch & Birch (Automatic Wire), Crawfordsville, Ind.
 Wilcox Mfg. Co., Aurora, Ill.

Eave Trough Wire Hanger Twisting Machines

CANTON FOUNDRY & MACHINE CO. ("Universal"), Canton, O. (See adv. index, end of book)

Eave Trough & Conductor Pipe Machinery

(See Conductor Pipe & Eave Trough Machinery)

Edging Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Edging or Lock-Folding Machines

American Can Co. ("Randolph" & "Krummell" for Tin & Sheet Metal Work), 135 Adams, Chicago, Ill.
BLISS, E. W. CO. (For Tin & Sheet Metal Work), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Edging Saw Machines

(See also Woodworking Machinery)

American Wood Working Machinery Co., Rochester, N. Y., West st. bldg., New York
 Rentel & Margedant Co., Hamilton, O.
 Fay, J. A. & Egan Co., Front & John, Cincinnati, O.
 Filler & Stowell Co., Home Office, Milwaukee, Wis.
 Garvin Machine Co., 137 Varick, New York
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.
 Lane Mfg. Co., Montpelier, Vt.
 Mecklenburg Iron Works, Charlotte, N. C.
 Sinker-Davis Co., Indianapolis, Ind.
 Union Iron Works, Bangor, Me.
 Wickes Bros., Saginaw, Mich.

Elbow Seam Closing Machines

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Electric Clothes Washing Machines

Nineteen Hundred Washer Co., Binghamton, N. Y.
 Opperman Electric Works ("Crown"), Manitowoc, Wis.

Electric Massage Machines

COATES CLIPPER MFG. CO. ("Coates"), Worcester, Mass. (See adv. index, end of book)
 U. S. Standard Electrical Works, 48 W 27th, New York

Electric Mining Machinery

(See Mining Machinery, Various Kinds)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Goodman Mfg. Co., S Halsted & 48th pl, Chicago, Ill.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Morgan-Gardner Elec. Co., 27th & Shields av, Chicago, Ill.
 Pneumoelectric Machine Co., Syracuse, N. Y.
 Sullivan Machinery Co., Railway Exchange, Chicago, Ill., & Claremont, N. H.

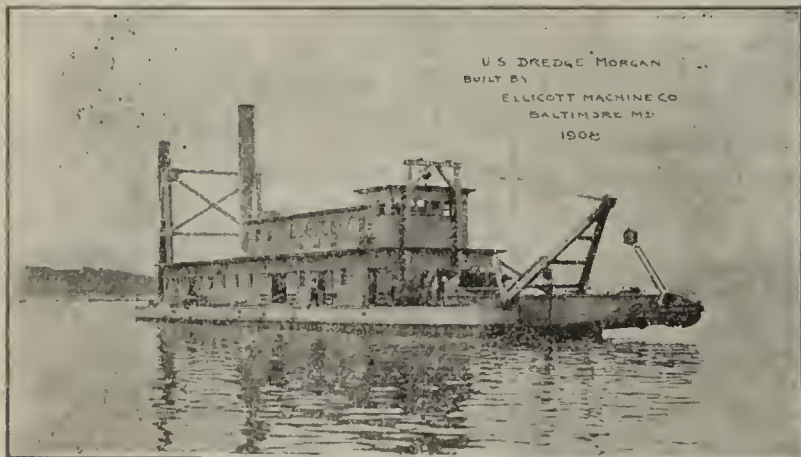
WE BUILD

HYDRAULIC DREDGES

To Handle any Material except Solid Rock

IN ANY QUANTITY FROM ANY DEPTH
 TO ANY DISTANCE TO ANY HEIGHT
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ELLICOTT MACHINE CO.
 BALTIMORE, MD.



Electric Tying Machines

Economy Engineering Co., 58 N Jefferson, Chicago, Ill.

Electric Tunneling Machines

Jackson, Geo. W. (Inc.) ("Jackson"), 169 W Jackson boul., Chicago, Ill., & 46 Wall, New York

Electric Welding Machines

Electric Railway Improvement Co., Cleveland, Ohio
Thomson Electric Welding Co., Lynn, Mass.
Toledo Electric Welding Co., Toledo, O.
Warren Electric Mfg. Co., Sandusky, O.

Electric Wire Making Machinery

Watson Machine Co., Paterson, N. J.

Electrical Porcelain Machinery

Crossley Machine Co. (Also Dies, etc.), Trenton, N. J.

Electrical Wire & Cable Covering Machinery

(See Wire & Cable Covering Machinery)

Electro-Dental Machinery

Consolidated Dental Mfg. Co., 10 E 23d, New York
Russell, Percy, 12 E 23d, New York
White, S. S. Dental Mfg. Co., 5 Union sq, New York

Electro Plating Machines

(See Dynamos, Electro Plating)

Electro & Linotype Sawing Machines

Kidder, R. E., Worcester, Mass.
Hoe, Rob't & Co., 504 Grand, New York
Wesel, F. Mfg. Co., 70 Cranberry, B'klyn, N.Y.

Electrotype Machinery

Herrick & Cowell, New Haven, Conn.
Hollingsworth, Wm., 227 N Holliday, Baltimore, Md.

Electrotype Trimming Machines

Royle, Jno. & Sons (Inc.), Paterson, N. J.

Elevating & Conveying Machinery

(See also Conveyors, Various Kinds; also Cranes, Various Kinds; also Derricks, Various Kinds; also Elevators, Various Kinds; also Hoists, Various Kinds; also Tramways & Trolleys, Overhead; also Wire Rope Tramways)

See also Index of Contents for the specific article required.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)

G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

KAESTNER & CO. (Inc.), 241 S Jefferson, Chicago, Ill. (See adv. index, end of book)

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

MEAD-MORRISON MFG. CO., Cambridge, Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

NORTHERN ENGINEERING WORKS, Chene & Atwater, Detroit, Mich. (See adv. index, end of book)

SPRAGUE CANNING MACHINERY Co., 42 River, Chicago, Ill. (See adv. index, end of book)

WELLER MFG. CO. ("Helicoid"), 118 North av., Chicago, Ill. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Elliptic Spring Machinery

Pratt & Whitney Co., Hartford, Conn.

Embossing Machines

BLISS, E. W. CO. (Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Cavagnaro, Jno. J., 255 Centre, New York
Currier, Cyrus & Sons (Presses & Rolls for Leather), Newark, N. J.

Detroit Embossing Machine Co., 1120 Grand River av., Detroit, Mich.

Dewes, A. Co., 243 Centre, New York
Dietz Machine Works (Paper), 126 Fountain, Phila., Pa.

Firth, Wm. Co. (Leather, Lockett, Crossland & Co.'s), 79 Milk, Boston, Mass.

Grammies, L. F. & Sons (Lever, for Wood, Paper, Cloth, Silk, etc.), Allentown, Pa.

Randall & Co. (Leather, etc.), 802 W 6th, Cincinnati, O.

Royal Machine Co. (Tin, Sheet Metal, Leather, Paper, etc.), Newark, N. J.

Seybold Machine Co., Dayton, O.

Sheridan, T. W. & C. B. Co. (Bookbinders'), 50 Duane, New York

Stimpson, Edwin B. Co. (For Leather, Cardboards, etc.), 31 Spruce, New York

Traud, Alex. Co., Newark, N. J.

Union Embossing Machine Co. ("Climax" Wood), Anderson, Ind.

Waldron, John Co., New Brunswick, N. J.

Embossing & Drop Carving Machines

Union Embossing Machine Co. ("New Automatic" & "Climax"), Anderson, Ind.

Embroidering Machines

Ahlstrom, O. J., 711 B'way, New York

Durbrow & Hearne Mfg. Co. ("Bonnoz" & "Swiss"), 12 Wooster, New York

Emery Grinding Machines

(See Grinders, Emery)

Enameled Cloth Machinery

Currier, Cyrus & Sons, Newark, N. J.

Engraving Machines

Diamond Machine Co., Providence, R. I.

Field, Chas. H., Providence, R. I.

Francis, A. E., 780 Cedar av., Cleveland, O.

Gorton, Geo. Machine Co. (For Engraving Name & Direction Plates), Racine, Wis.

Envelope Machines

Blackhall Mfg. Co., 215 E. Genesee, Buffalo, N. Y.

Brown Bag Filling Machine Co., Fitchburg, Mass.

Conley & Trevor, Hartford, Conn.

Dietz Machine Works (Open Encl. Side Seam, etc.), 126 Fountain, Phila., Pa.

Ermold, Edw., Hudson & 13th, New York.

Globbs Mfg. Co., Worcester, Mass.

Hopkinson Machine Works, Springfield, Mass.

Kidder, R. E., Worcester, Mass.

Lester & Wasley, Norwich, Conn.

Rau, Emanuel, 136 Thompson, New York

Rowers, Frank B., 52 Taylor, Springfield, Mass.

Royal Machine Co., Newark, N. J.

Schmidt, F. L., 133 Thompson, New York

Sherman, John, Worcester, Mass.

Envelope Sealing Machines

Acorn Brass Mfg. Co. ("Thexton" Hand & Power), 211 Fulton, Chicago, Ill.

Brayton Bros. ("Jones"), Minneapolis, Minn.

Grant Mfg. & Machine Co., Bridgeport, Conn.

Simplex Mfg. Co. ("Simplex"), 90 West, New York

Standard Addressing Machine Co., 310 B'way, New York

Excavating Machinery

See also Dredging Machinery; also Shovels, Steam; also Sewer & Trench Excavating Machines; also Ditching Machines)

Atlantic Gulf & Pacific Co., Park Row bldg., New York & San Francisco, Cal.

Austin, F. C. Drainage Excavator Co., R'y Exch bldg., Chicago, Ill.

Bacon, Earle C., Havemeyer bldg., New York

Bucyrus Co., South Milwaukee, Wis.

Carson Trench Machine Co., 16 Dorrance, Boston, Mass.

Fairbanks Steam Shovel Co., Marion, O.

HAYWARD CO., THE, 50 Church, New York. (See adv. index, end of book)

Heyworth, J. O. (Heyworth-Newman), Harvester bldg., Chicago, Ill.

INGERSOLL - RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Jackson, Geo. W. (Inc.), 169 W Jackson boul., Chicago, Ill., & 46 Wall, New York

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Kingsford Foundry & Machine Works, Oswego, N. Y.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

LAMBERT HOISTING ENGINE CO., Main Office & Works: 115-121 Poinier, Newark, N. J. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York. (See adv. index & branch offices, end of book)

Marion Steam Shovel Co., Marion, O.

Osgood Dredge Co., Albany, N. Y.

Portland Co., 58 Fore, Portland, Me.

Roots, P. H. & F. M. Co., Connersville, Ind.

SHAW, WILLIS CO., 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Smith, Theo. & Sons Co., ft of Essex, Jersey City, N. J.

Toledo Foundry & Machine Co., Toledo, O.

Urie-Snyder Iron Works Co., Kansas City, Mo.

Excelsior Machinery

Fifield Bros., Augusta, Me.

Fisher & Davis, 1024 N. Main, St. Louis, Mo.

Flexo Mfg. Co., Kansas City, Mo.

Howell, R. R. & Co., Minneapolis, Minn.

Humphrey Machine Co., Keene, N. H.

Indianapolis Excelsior Machinery Co., Indianapolis, Ind.

Kline, Lewis T., Alpena, Mich.

Eye Bending or Eye Bolt Machines

Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.

Williams, White & Co., Moline, Ill.

Eyelet Machines

BECK, CHAS. PAPER CO. (LTD.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)

Blake & Johnson Co., Waterbury, Conn.

BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)

Manville Bros. Co., Waterbury, Conn.

Manville, E. J. Machine Co., Waterbury, Conn.

Sheridan, T. W. & C. B. Co. (Bookbinders, etc.), 56 Duane, New York

Shipman, Geo., West Bridgewater, Mass.

Standard Machinery Co., Providence, R. I.

Stimpson, Edwin B. Co. (Gang), 31 Spruce, New York

United Shoe Machinery Co., Boston, Mass.

Waterbury Machine Co., Waterbury, Conn.

Face Grinding Machines

(See Grinders)

Facing Machines (Three-Way)

Beaman & Smith Co., Providence, R. I.

Faucet or Bibb Re-Seating Machines

Long, Adam A., 13 Graves, Rochester, N. Y.

Felloe Machinery

(See Carriage Builders' Machinery)

Fence Machines (Wire)

Carter Wire Fence & Machine Co., Mt. Sterling, O.

Cyclone Fence Co. ("Cyclone"), Waukegan, Ill.

Cyclone Woven Wire Fence Co. (Chain), Cleveland, O.

Deuscher, H. P. Co. ("Hamilton"), Hamilton, Ohio

Elliott & Reid Co. (Wire & Picket), Richmond, Ind.

Eureka Fence Mfg. Co. ("Eureka," "Little Gault," "New Robinson," Wire & Picket), Richmond, Ind.

Gem Wire Fence Co., Pontiac, Mich.

International Steel Post Co., St. Louis, Mo.

Jackson Fence Co. ("Jackson"), Jackson, Mich.

Kitselman Bros. (Woven Wire), Muncie, Ind.

Kokomo Fence Machine Co. (Automatic Woven Wire), Kokomo, Ind.

Leader Fence Machine Mfg. Co. ("Leader"), St. Charles, Ill.

Lyle & Reynolds, Crawfordsville, Ind.

Missouri Anchor Fence Co., St. Joseph, Mo.

Standard Wire Fence Co. ("Standard"), Canandaigua, N. Y.

Fertilizer Machinery

(See also Pulverizing Machinery)

Blanchard Machine Co., Cambridge, Mass.
 Campbell, P. F., 55 Laurel, Phila., Pa.
 Odd, E. J. Co., 700 S Caroline, Baltimore, Md.
 Dempwolf, C. H. & Co. (Steel Mixers, etc.),
 York, Pa.
 Fulton Foundry & Machine Works, Atlanta, Ga.
 Marquette, John N., Baltimore, Md.
 Pratt Engineering & Machine Co., Atlanta, Ga.
 Sackett, August J., 5th av. & First, Baltimore,
 Md.
SCHULE, F. H. CO. (Automatic
 Scales), 114-118 Liberty, New York. (See
 adv. index, end of book)
 Stedman's Foundry & Machine Works, Aurora,
 Ind.
 Valk & Murdock Iron Works, Charleston, S. O.

Fibre Cleaning Machines

Prieto Machine Co. (Inc.) ("Estrella," "Irene,"
 "Ideal"), 45 B'way, New York
 Spangler Mfg. Co. ("Smith" Automatic), York,
 Pa.

Fibre Machinery

Shuart-Fuller Mfg. Co. ("Leonard"), Elyria, O.
 Wood Fiber Machinery Co., Sandusky, O.

Fibre Machinery (Hard Fibre)

Downingtown Mfg. Co., East Downingtown, Pa.
 National Machine Co., Wilmington, Del.
 Pusey & Jones Co., Wilmington, Del.

Field Coil Winding Machines

Ridlon, Frank Co., 251a, Boston, Mass.

File Machinery

Hess Machine Works (Also Rasp Machinery)
 (Jno. A. Hess), 2512 Callowhill, Phila., Pa.

File Room Machinery

(See also Saw Filing & Setting Machines; also
 Band Saw Setting Machines)
COVEL MFG. CO., Benton Harbor,
 Mich. (See adv. index, end of book)
 Hanchett Swage Wks., Big Rapids, Mich.
 Rotary File & Machine Co., 589 Kent av, Brook-
 lyn, N. Y.

File Sharpening Machines

(See also Sharpeners, File)

Columbus Pneumatic Tool Co. ("Dunlop"), Co-
 lumbus, O.

File Testing and Indicating Machines

OLSEN, TINIUS & CO. ("Herbert,"
 Automatic), 500 W 12th, Phila., Pa.

Filing Machines

Chicago Filing Machine Co. ("Chicago" Bench),
 5th W Madison, Chicago, Ill.
 Cochrane-Blye Co. (For Sawing Out & Filing
 Blanking Dies), Rochester, N. Y.
 Grant Mfg. & Machine Co., Bridgeport, Conn.
 Kinsey-Burt Co. ("Kinsey-Burt"), 138 Liberty,
 New York
 Robinson Tool Works ("Hartford" Bench),
 Waterbury, Conn.
 Simplex Mfg. Co. ("Simplex Combination"), 90
 West, New York

**Filter Cloth & Bag Washing
Machines**

American Laundry Machinery Mfg. Co., Nor-
 wood, Cincinnati, O.

Fire-Proofing Machinery

American Clay Machinery Co., Bucyrus, O.
 Bonnot Company, Canton, O.
 Fate, J. D. Co., Plymouth, O.
 Turner, Vaughn & Taylor Co., Cuyahoga Falls,
 Ohio

Fish Line Machinery

Brownell, G. L., Worcester, Mass.

Fishing Net Machinery

Fowler Net & Twine Co., 107 S 2d, Phila., Pa.

Flanging Machines

(See also Presses, Hydraulic Flanging)

Alliance Machine Co., Alliance, O.
 Ams, Max Machine Co. (Automatic for Can
 Makers), Mount Vernon, N. Y.
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Keene, Geo. C. & Co., Cincinnati, O.
 Loeffler, Chas. & Co. (Can Body, etc.), 63 Cly-
 mer, Brooklyn, N. Y.
 Manning, Maxwell & Moore, 85 Liberty, New
 York
MORGAN ENGINEERING CO. (Uni-
 versal, Hydraulic, for Boiler Heads, etc.),
 Alliance, O. (See adv. index & branch of-
 fices, end of book)
NIAGARA MACHINE & TOOL W'KS.
 (Sheet Metal), Buffalo, N. Y. (See adv. in-
 dex, end of book)
 Niles-Bement-Pond Co. (Boiler Head, etc.), 111
 B'way, New York
 Ryerson, J. T. & Son, Chicago, Ill.
 Watson-Stilman Co., 26 Cortlandt, New York
 Wickes Bros., Saginaw, Mich.

Flint Machines

Koegel, Chas. & Sons, Holyoke, Mass.

Floor Polishing Machines

Floor Sanding & Polishing Machine Co. (Elec-
 tric), 628 Race, Phila., Pa.
 Schlueter, M. L. (Tile & Composition), 32 S
 Canal, Chicago, Ill.

Floor Scraping Machines

(See also Scrapers, Floor)

Ackerman, J. B. Co. ("Ackerman's" Rapid),
 Grand Rapids, Mich.
 Fox Mfg. Co. ("Fox"), Milwaukee, Wis.
 Hurley Machine Co. ("Little Giant"), 153 S
 Jefferson, Chicago, Ill.

Floor Scrubbing Machines

Floor Sanding & Polishing Machine Co. (Elec-
 tric, Wire Brush), 628 Race, Phila., Pa.
 Inter-State Equipment & Engineering Co. ("Lit-
 tle Shaver"), Old Colony bldg, Chicago, Ill.
 Kuster, J. A. ("Common Sense"), Plymouth,
 Wis.
 Miotke, Joseph ("Acme"), 247 Lake, Milwaukee,
 Wis.

Floor Surfacing Machines

American Floor Surfacing Machine Co., To-
 ledo, O.
 Dosch Mfg. Co. ("Champion"), Bridgeport,
 Conn.
 Electric Floor Surfacing Co., 147 W 24th, New
 York
 Floor Sanding & Polishing Machine Co. (Sand-
 ing & Polishing; also Contractors for Floor
 Surfacing), 628 Race, Phila., Pa.
MARSH COMPANY ("Henderson,"
 Electric), Old Colony bldg, Chicago, Ill., &
 50 Church, New York. (See adv. index, end
 of book)
 Perfect Floor Surfacing Co., 1915 State av,
 Cincinnati, O.
 Real Estate Improvement Co., Providence, R. I.
 Richards, F. P. Mfg. Co. ("Richards" Hard-
 wood), Springfield, Ill.
 St. Louis Machine Floor Surfacing Co. (Elec-
 trical), 2636 Olive, St. Louis, Mo.
 Schlueter, M. L. ("Schlueter" Rapid), 34 S
 Canal, Chicago, Ill.
 Surfacing Machine Co., Providence, R. I.

Flour Blending Machinery

Day, J. H. Co., Cincinnati, O.
WERNER & PFLEIDERER, Sagi-
 naw, Mich. (See adv. index, end of book)
 Wolf Co. (For Bakeries), Chambersburg, Pa.
 Wolf, Fred., 625 W boul, Kansas City, Mo.

Flour Mill Machinery

(See also Grain Elevator Machinery, Etc.)

Acme Mill Works, Greensboro, N. C.
 Albany Iron Works, Albany, Ore.
ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
 Barnard Machinery Co., Enterprise, Kan.
 Barnard & Leas Mfg. Co., Moline, Ill.
 Barnard Mfg. Co., Spokane, Wash.
 Barry-Wehmiller Machinery Co., St. Louis, Mo.
BARTLETT, C. O. & SNOW CO.,
 French st., Cleveland, O. (See adv. index,
 end of book)

Beall Improvements Co., Decatur, Ill.
 Bullock, C. K., 1357 Ridge av, Phila., Pa.
 Burrell Mfg. Co., 251 S Jefferson, Chicago, Ill.
 Campbell, P. F., 55 Laurel, Phila., Pa.
 De Loach Mill Mfg. Co., Bridgeport, Ala.
 Ehram, J. B. & Sons Mfg. Co., Enterprise,
 Kan.
 Essmuelier Mill Furnishing Co., St. Louis, Mo.
 Foos Mfg. Co. (Gas & Gasoline Engines, etc.),
 Fraser Co., Milwaukee, Wis. Springfield, O.
 Great Western Mfg. Co., Leavenworth, Kan.
 Gump, B. F. Co. (Rebuilt Machinery), 250 S
 Clinton, Chicago, Ill.
 Hammond-Homberger Co., Silver Creek, N. Y.
 Howes, S. Co., Silver Creek, N. Y.
 Huntley Mfg. Co., Silver Creek, N. Y.
 Hutchinson, Jno. Mfg. Co., Jackson, Mich.
 Invincible Grain Cleaner Co., Silver Creek, N. Y.
 Moore & Lorenz Co., 115 S Clinton, Chicago, Ill.
 Munson Bros. Co., Utica, N. Y.
 Nashville Machine Co., Nashville, Tenn.
 Nordyke & Marmon Co. (All Kinds), Indianap-
 olis, Ind.
 Noye Mfg. Co., 50 Lakeview av, Buffalo, N. Y.
 Portland Iron Works (Inc.), Portland, Oregon
 Prinz & Rau Mfg. Co., Milwaukee, Wis.
 Reuter-Jones Mfg. Co., St. Louis, Mo.
 Richmond Mfg. Co., Lockport, N. Y.
 Salem Foundry & Machine Works, Salem, Va.
 Savage, W. J. Co., Knoxville, Tenn.
SCHULE, F. H. CO., 114-118 Liberty,
 New York. (See adv. index, end of book)
 Silver Bros. Iron Wks. Co., Salt Lake, Utah
 Southern Engine & Boiler Wks., Jackson, Tenn.
SPROUT, WALDRON & CO., Muncy,
 Pa. (See adv. index, end of book)
 Starr, B. F. Co., 455 North, Baltimore, Md.
 Stauffer, Geo. E., E. Stroudsburg, Pa.
 Straub Machinery Co., Cincinnati, O.
 Ty-sa-man Machine Co., Knoxville, Tenn.
 Union Iron Works, Decatur, Ill.
 Van Camp, Anson, Decatur, Ill.
 Williamette Iron & Steel Works, Portland, Ore.
 Willford Mfg. Co., 303 S 3d, Minneapolis, Minn.
 Wolf Co. (Complete Plants), Chambersburg, Pa.
 Ypsilanti Machine Wks., Ypsilanti, Mich.

Flower Pot Machinery

American Clay Machinery Co., Bucyrus, O.
 Crossley Machine Co., Trenton, N. J.
 Rockwood Mfg. Co., Indianapolis, Ind.
 Rockwood Pottery Co., Cincinnati, O.
 Taplan-Rice-Clerkin Co., Akron, O.

Flue Cleaning Machinery

Ryerson, Jos. T. & Son, 16th & Rockwell,
 Chicago, Ill.

Flue Welding Machines

(See also Furnaces, Flue Welding)

Hartz, H. V. Co. (Inc.), Cleveland, O.
 Hauck Mfg. Co., 140 Cedar, New York
MACLEOD, WALTER & CO., 213 E
 Pearl, Cincinnati, O. (See adv. index, end
 of book)
 Maddocks & Herschell (Automatic Hand &
 Power), Princeton, Ind.
 Ryerson, Jos. T. & Son ("Ferguson"), 16th &
 Rockwell, Chicago, Ill.
 Scully Steel & Iron Co., Chicago, Ill.

Fluting & Plaiting Machines

North Bros. Mfg. Co. ("Crown" & "Knox,"
 "American" & "Eagle" Fluting Machines),
 Lehigh av & American, Phila., Pa.

Fly Inserting Machines

Hobbs Mfg. Co. (For Paper Box Makers), Wor-
 cester, Mass.

Foot Power Sawing Machines

Automatic Specialty Co. (For Light Sheet
 Metals & Paper), 6th & Baymiller, Cin-
 cinnati, O.
 Millers Falls Co. ("Cricket"), 28 Warren, New
 York; Works: Millers Falls, Mass.

Forging Machines

(See also Hammers, Power; also Presses, Pow-
 er; also Presses, Hydraulic Forging; also
 Bulldozer or Bending Machines)
 Acme Machinery Co., Cleveland, O.
AJAX MFG. CO., 3830 Lakeside, N E,
 Cleveland, O. (See adv. index, end of book)
 Beaudry & Co. (Inc.) (Forging Presses), 141
 Milk, Boston, Mass.
 Bethlehem Steel Co., S Bethlehem, Pa.
 Billings & Spencer Co., Hartford, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Chambersburg Engineering Co. (Forging Presses, Hydraulic), Chambersburg, Pa.
Consolidated Press & Tool Co., Hastings, Mich.
MERRILL BROS. (Hammers), William st, Maspeth (Borough of Queens), New York. (See adv. index, end of book)
MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Sutton, C. E. Co. (Horizontal Forging Presses, etc.), Toledo, O.
Toledo Machine & Tool Co., Toledo, O.
Williams, White & Co., Moline, Ill.

Forging Machines (Hydraulic)

Bethlehem Steel Co., S Bethlehem, Pa.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Forging Machines (Sheet Work)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Forging & Bending Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Forming & Bending Machines

(See also Wire Forming Machines; also Wood Forming Machines)

Adriance Machine Works, Brooklyn, N. Y.
AJAX MFG. CO., 3830 Lakeside, N E, Cleveland, O. (See adv. index, end of book)
American Can Co. (For Tin & Sheet Metal), 135 Adams, Chicago, Ill.

Badger State Machine Co., Janesville, Wis.
Baird Machine Co., Oakville, Conn.

Baker, Jas. H. Mfg. Co., Park bldg., Pittsburgh, Pa.; Works, Tarentum, Pa.

Bertsch & Co., Cambridge City, Ind.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Consolidated Press & Tool Co., Hastings, Mich.
Coulter & McKenzie Machine Co. (For Wire & Sheet Metals), Bridgeport, Conn.

Hartford Machine Screw Co., Hartford, Conn.
Hilles & Jones Co., Wilmington, Del.

Lang, E. M. Co., Portland, Me.
Leffler, Chas. & Co. (Can Forming, Bending, etc.), 63 Clymer, Brooklyn, N. Y.

Long & Alistatter Co. (Horizontal), Hamilton, Ohio
National Machinery Co., Tiffin, O.

NIAGARA MACHINE & TOOL Works (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York
Ohl, Geo. A. & Co. (Sheet Metal), Newark, N. J.

Peck, Stow & Wilcox Co. (Sheet Metal), South- ington, Conn.

Pittsburg Mfg. Co., Pittsburg, Pa.
Pocock, Oliver (Sheet Metal), 1042 Harriett, Cincinnati, O.

Robinson, J. M. Mfg. Co. (Sheet Metal), Cincinnati, O.

Royal Mfg. Co. (For Light Shapes), Lancaster, Pa.

Swaine, Fred. J. Co. (Can Body), St. Louis, Mo.
Tivel's John Sons (Inc.), Newburgh, N. Y.

Wallace Supply Co., 169 Jackson boul., Chicago, Ill.

WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

Waterbury Machine Co., Waterbury, Conn.
Whiting, Geo. O. (Forming), 156 W. North av, Chicago, Ill.

Williams, White & Co., Moline, Ill.
Wood, Wm. H., Media, Pa.

Forming Machines (Hydraulic)

WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Foundry Machinery

(See also the Specific Article Required)

Allen, Chas. G. Co., Barre, Mass.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

INGERSOLL - RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Foundry Molding Machines

(See Molding Machines, Foundry)

Fourdrinier & Cylinder Paper Machines

Bellows Falls Machine Co., Bellows Falls, Vt.
Beloit Iron Works, Beloit, Wis.

Emerson Mfg. Co., Lawrence, Mass.
Moore & White Co., 15th & Lehigh av, Phila., Pa.

Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.

Sandy Hill Iron & Brass Works, Sandy Hill, N. J.

Fraying Machines (Carpet)

Reed Mfg. Co. (Hand & Power), Springfield, O.

Freight Handling Machines

(See Conveyors, Freight)

Fruit Can Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Fruit Cleaning & Breaking Machinery

American Fruit Machinery Co., Drexel bldg, Phila., Pa.

Fruit Grading & Packing Machines

Anderson-Barngrover Mfg. Co., San Jose, Cal.

Fruit Package Stapling Machines

(See Wire Stapling Machinery)

Fruit Paring Machines

(See Parers, Fruit & Vegetable)

Fuel Briquetting Machinery

(See Briquetting Machines)

Fuel Gas Machines

AMERICAN GAS FURNACE CO. (Naphtha Gas), 24 John, New York, & Elizabeth, N. J. (See adv. index, end of book)

Fur Dressing Machinery

(See Fur Manufacturers' Machinery)

Fur Manufacturers' Machinery

Almond, David (Blowers, Mixers, Cutters, etc.), Newark, N. J.

Glove City Cutting Die & Machine Co. (For Combing, Washing & Clipping Fur. Skins), Gloversville, N. Y.

Piel, Bernard F. (Tramping & Tubbing Machines, etc.), 56 Humboldt, Brooklyn, N. Y.

Furnace Charging Machines

(See also Furnaces, Various Kinds)

MORGAN ENGINEERING CO. (For Both Horizontal & Vertical Furnaces), Alliance, O. (See adv. index, end of book)

Furnace Pipe Seaming Machines

NIAGARA MACHINE & TOOL W'KS, Buffalo, N. Y. (See adv. index, end of book)

Furniture Nail Machines

Blake & Johnson Co., Waterbury, Conn.

Gaining Machines

Bentel & Margedant Co. (Automatic Traversing, Triple Axle Car & Gang), Hamilton, Ohio

Galvanizing Machinery

Erie Foundry Co., Erie, Pa.
Kenworthy Engineering Co., Waterbury, Conn.

Keystone Nail Co. ("Porter" for Small Articles), 1618 Wash'n av., Phila., Pa.

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Gang Drilling Machines

(See Wood Gang Drilling Machines; for Metal Drills, see Drills, Gang)

Garbage Disposal Machines

(See Garbage Disposal Plants)

Gas Machines

Clingman Gas Machine Co., Dayton, O.
Coleman Gas Works Mfg. Co., 705 B'way, Cincinnati, O.

Detroit Heating & Lighting Co., Wight nr Leib, Detroit, Mich.

East, Iron & Machine Co., Lima, O.
Epworth Gas Light & Heating Co., Waterloo, Iowa

Gas Machinery Co. (Water), Citizens' bldg, Cleveland, O.

Gilbert & Barker Mfg. Co. ("Springfield"), Springfield, Mass.

Globe Light & Heat Co., 218 La Salle, Chicago, Ill.

Hinman Gas Machine Co., 7 Sherman, Boston, Mass.

Imperial Gas Machine Co., 32 Park pl., New York

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New York Office Hudson Terminal Building, 50 Church Street

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De Fries & Co., Dusseldorf, Germany, European Builders and Distributors

Incandescent Light & Stove Co., 420 E Pearl, Cincinnati, O.
Kemp, C. M. Mfg. Co. ("Climax"), 401 E Baltimore, Md.
Matthews Gas Machine Co., 40 Dearborn, Chicago, Ill.
 National Light & Heating Co., Freeport, O.
 Novelty Iron Works, Sterling, Ill.
 Penna. Globe Gaslight Co., Broad & Arch, Phila., Pa.
SPRAGUE CANNING MACHINERY
 Co. (Underground), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Tirrill's Gas Machine Lighting Co., 16 Commercial, Newark, N. J.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Gas Machines (Acetylene)

Acetylene Apparatus Mfg. Co. ("Pilot," Model D), 157 Michigan av, Chicago, Ill.
Bay State Acetylene Generator Co., Taunton, Mass.
Beaver Mfg. Co. ("McKenzie"), Beaver, Pa.
Brauer Acetylene Lighting Co. ("Brauer"), Marshalltown, Ia.
Charbeneau, John C., Mount Clemens, Mich.
Coleman Gas Works Mfg. Co., 705 B'way, Cincinnati, O.
Colt, J. B. Co. (Model N), 21 Barclay, New York
Commercial Acetylene Co. (Safety Storage System), 80 B'way, New York
Davis Acetylene Fixture & Supply Co. (Carbide Feed), Elkhart, Ind.
Eagle Generator Co. ("Eagle," Automatic), 1530 Pine, St. Louis, Mo.
Gem City Acetylene Generator Co., Dayton, O.
General Acetylene Co. ("General"), 80 B'way, New York
Hercules Mfg. Co., Chattanooga, Tenn.
Hill, Almou F. ("Hill" Storage & "White-light"), Portland, Me.
Hunter's Acetylene Gas Co. ("Hunter" Plunger), 59 Clark, Chicago, Ill.
Ideal Epworth Acetylene Co., Johnston, Pa.
Lewis Gas Machine Mfg. Co., Fort Worth, Tex.
Lynch, G. R. Mfg. Co. ("Aurora"), Chattanooga, Tenn.
Millburn, Alexander Co. (Generators for House Lighting, etc.), 507 W Lombard, Baltimore, Md.
Miller Lighting Co. (Inc.) ("Daisy, Jr.," Generator), Detroit, Mich.
Monarch Acetylene Co., Buffalo, N. Y.
Monarch Acetylene Gas Co., Omaha, Neb.
National Welding & Mfg. Co., Buffalo, N. Y.
Rushmore Dynamo Works, Plainfield, N. J.
St. Clair Mfg. Co. ("Daytonia"), Dayton, O.
Sober, C. K., Lewisburg, Pa.
Sunlight Gas Machine Co. ("Omega," "Americano"), 49 Warren, New York
U. S. Standard Co. (Inc.) ("Commander"), Voorheesville, N. Y.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Gas Machines (Gasoline)

Clingman Gas Machine Co., Dayton, O.
Economy Gas Machine Co. ("Economy"), Rochester, N. Y.
Hawkeye Mfg. Co., Waterloo, Iowa
 Incandescent Light & Stove Co., 420 E Pearl, Cincinnati, O.
Kemp, C. M. Mfg. Co. ("Climax"), 401 E Oliver, Baltimore, Md.
Matthews Gas Machine Co., 40 Dearborn, Chicago, Ill.
Michigan Brick & Tile Machine Co. (Gas Generators), Morenci, Mich.
Swen Gas Machine Co., Waterloo, Ia.

Gas Machines (Naphtha Gas)

Gilbert & Barker Mfg. Co., Springfield, Mass.

Gas Power & Lighting Machinery

GAS POWER CO., 2 Rector, New York. (See adv. index, end of book)

Gas Pumping Machinery

(See also Pumps, Various Kinds)

Boyd & Seyfang Mfg. Co., Bradford, Pa.
GAS POWER CO., 2 Rector, New York. (See adv. index, end of book)
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Otto Gas Engine Works, 360 Dearborn, Chicago, Ill.

Gas Retort House Machinery

Bronder, G. A., 220 B'way, New York

Gas Works Machinery

(See also Gas Works Apparatus & Construction)
Gas Machinery Co. (Purifiers, Exhausters, Scrubbers, Valves, Washers, By-Product Machinery, etc.), Cleveland, O.
Isbell-Porter Co. (Charging & Discharging Machinery, Exhausters, Condensers, Scrubbers, Benches, Extractors, etc.), Newark, N. J.
Murray-Kerr Mfg. Co., Fort Wayne, Ind.
Ritter-Conley Mfg. Co., Pittsburg, Pa.
Western Gas Construction Co., Ft. Wayne, Ind.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Gate Hook Machines (Automatic)

Nilson, A. H. Machine Co., Bridgeport, Conn.

Gear Cleaning Machines

Crowther, P. & Co. (Automatic), 170 Oliver, Boston, Mass.

Gear Cutting Machines

Adams Co., Dubuque, Ia.
American Watch Tool Co., Waltham, Mass.
Becker Milling Machine Co. (Automatic), Hyde Park, Mass.
Blount & Lovell, 100 High, Boston, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati-Bickford Tool Co. (Multiple Splines), Cincinnati, O.
Cincinnati Gear Cutting Machine Co. (Automatic), Cincinnati, O.
Eagle Tool & Machine Co. (Special Tools & Machinery), North Side, Pittsburg, Pa.
Fellows Gear Shaper Co., Springfield, Vt.
FREVERT MACHINERY CO., 18 Dec, New York. (See adv. index, end of book)
Jarvin Machine Co., 137 Varick, New York
Gleason Works, Rochester, N. Y.
Gould & Eberhardt (Automatic Steel Gear & Pinion Cutting Machines, etc.), Newark, N. J.
Herrick, Chas. E., Northampton, Mass.
Kentucky Gear & Machine Co. ("The Blender"), Louisville, Ky.
Manning, Maxwell & Moore, 85 Liberty, New York
Newark Gear Cutting Machine Co., Newark, N. J.
Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.
Niles-Rement-Pond Co., 111 B'way, New York
Pratt & Whitney Co. (Involute & Epicycloidal), Fitchburg, Mass.
PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
Putnam Machine Co. (Involute & Epicycloidal), Fitchburg, Mass.
Sloan & Chace Mfg. Co. (Ltd.) (Automatic), Newark, N. J.
WALTHAM MACHINE WORKS (Small, Automatic), Waltham, Mass. (See adv. index, end of book)
Whitton, D. E. Machine Co., New London, Conn.
Wolf Co. (Inc.), Chambersburg, Pa.
YOUNG MACHINE & TOOL CO., 211 Center, New York & Worcester, Mass. (See adv. index, end of book)

Gear Hobbing Machines

Adams Co. ("Farwell" Automatic), Dubuque, Ia.
Reynolds Machinery Co. (Automatic), Rock Island, Ill.

Gear Testing Machines

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)

Gelatine Coating Machines

Colton, Arthur, 184 Macomb, Detroit, Mich.

Gin Saw Filing Machines & Gummers

Carver Cotton Glu Co., East Bridgewater, Mass.

Glass Beveling Machinery

(See also Glass Polishing Machines)

COATES CLIPPER MFG. CO. ("Coates" Glass Grinding Head), Worcester, Mass. (See adv. index, end of book)
Lange, Henry G., 22 N May, Chicago, Ill.

Glass House Machinery

Acton, John (Glass Roughing, Smoothing, etc.), 118 John, Brooklyn, N. Y.
Centre Foundry & Machine Co., Wheeling, W. Va.
Dixon, H. L. Co., Roslyn, Pa.
Evans Mold & Machine Co., Uniontown, Pa.
Knott & Barker Co., Beaver Falls, Pa.
Muncie Foundry & Machine Co., Muncie, Ind.
Sommerfeld Machine & Mfg. Co., 220 2d av, Pittsburg, Pa.
Wheeling Mold & Foundry Co., Wheeling, W. Va.

Glass Polishing Machines

Acton, John, 118 John, Brooklyn, N. Y.
COATES CLIPPER MFG. CO. ("Coates" Glass Grinding Head), Worcester, Mass. (See adv. index, end of book)
Stow Flexible Shaft Co., N 26th & Buttonwood, Phila., Pa.

Glossing Machines

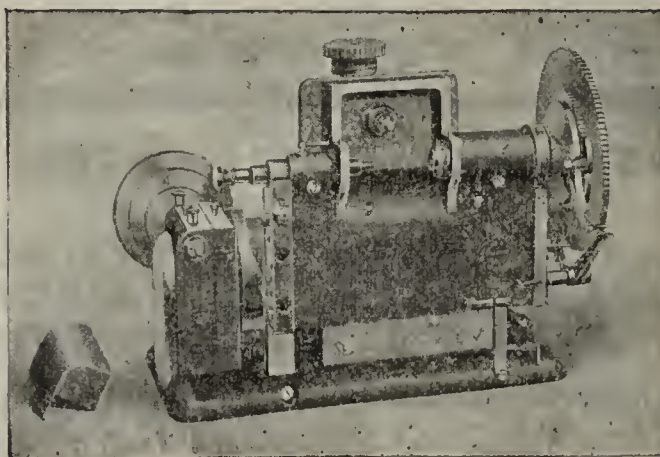
Chambers Bros. Co., 52d below Lancaster av, Phila., Pa.

Glove Machinery, Etc.

Anthony, H. J. (Glove Cutting Dies & Presses, etc.), Gloversville, N. Y.
Curtin-Hibert Mfg. Co. (Special Machine & Glove Sewing Machines, etc.), Gloversville, N. Y.
Glove City Cutting Die & Machine Co., Gloversville, N. Y.
Haag, Jacob (Glove Cutting Dies, etc.), Gloversville, N. Y.

Glue Factory Machinery

Joslin, Schmidt & Co., Cincinnati, O.



3-inch Automatic Brass Gear Cutter.

WALTHAM MACHINE WORKS, Waltham, Mass.

AUTOMATIC GEAR CUTTING MACHINES

Made in two sizes, and very desirable for brass work 3 inches diameter or less. Index, cams and other working parts completely protected. Will take a roughing and finishing cut if desired.

Send for Folder.

Glue Jointing Machines

Linderman Mfg. Co., Muskegon, Mich.

Glue Spreading Machines

Royle, John Machine Co., Peabody, Mass.
 Fischer, E. Machine Works (For Box Factories),
 710 Carroll av., Chicago, Ill.
 Francis, Chas. E. & Bro., 425 E 8th, Cincinnati, O.
 Grand Rapids Veneer Works, Grand Rapids, Mich.
HAMMACHER, SCHLEMMER & CO.
 (Hand & Power), 133 4th av., New York
 (See adv. index, end of book)
 Towsley, Jno. T. Mfg. Co., Evansville, Ind.

Glycerine Machinery

Curtin-Hebert Mfg. Co., Gloversville, N. Y.

Gold Dredging Machinery

(See Dredges, Gold & Placer Mining)

Gold Dusting Machines

Hinze, H., Tribune Bldg., New York

Graduating Machines

Altender, Theo. & Sons, 945 Ridge av., Philadelphia
 Hope, Jno. & Sons, Eng. & Mfg. Co., Providence, R. I.
 LeBlond, R. K. Machine Tool Co., Cincinnati, Ohio

Grain Cleaning & Grading Machinery
(See also Flour Mill Machinery)

Barnard & Leas Mfg. Co., Moline, Ill.
 Best Mfg. Co., San Leandro, Cal.
 Campbell, P. F., 55 Laurel, Philadelphia, Pa.
 Howes, S. Co., Silver Creek, N. Y.
 Huntley Mfg. Co. ("Monitor," for Elevators),
 Silver Creek, N. Y.
 Invaluable Grain Cleaner Co., Silver Creek, N. Y.
 Johnson & Field Mfg. Co., Racine, Wis.
 Messinger, S. S. & Son, Tatamy, Pa.
 Nordyke & Marmou Co., Indianapolis, Ind.
 Owens, J. L. Co., Minneapolis, Minn.
 Portland Iron Works ("The Eureka"), Portland, Ore.
 Prinz & Rau Mfg. Co. (Iron Prince Scourer),
 Milwaukee, Wis.
SCHULE, F. H. CO., 114-118 Liberty.
 New York. (See adv. index, end of book)
SPROUT, WALDRON & CO., Muncy.
 Pa. (See adv. index, end of book)
 Stevens Mfg. Co., Joliet, Ill.

Grain Elevator Machinery & Appliances

Barnard Mfg. Co., Spokane, Wash.
 Barry-Wehmiller Machine Co., St. Louis, Mo.
 Caldwell, H. W. & Son Co., 17th & Western
 av., Chicago, Ill.
 Des Moines Mfg. & Supply Co., Des Moines, Ia.
 Diamond Iron Works, Minneapolis, Minn.
 Dodge Mfg. Co., Mishawaka, Ind.
 Ehrsam, J. B. & Sons Mfg. Co., Enterprise,
 Kan.
 Gill, P. H. & Sons, Lorraine & Otsego,
 Brooklyn, N. Y.
 Globe Machinery & Supply Co., Des Moines, Ia.
 Great Western Mfg. Co., Leavenworth, Kan.
 Holbrook, C. D. & Co., Minneapolis, Minn.
 Howes, S. Co., Silver Creek, N. Y.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Link Belt Co., W. 39th cor Stewart av., Chicago, Ill., & 299 B'way, New York
 Marselles Mfg. Co., Marseilles, Ill.
 May Chain Drilling Engineering Works, 14
 Perry, Buffalo, N. Y.
MINNEAPOLIS STEEL & MACHINE
 ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Moore & Lorenz Co., 816-822 Fulton, Chicago, Ill.
 Nordyke & Marmon Co., Indianapolis, Ind.
 Poole Engineering & Machine Co., Woodberry
 Station, Baltimore, Md.
SCHULE, F. H. CO., 114-118 Liberty.
 New York. (See adv. index, end of book)
 Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.
SPROUT, WALDRON & CO., Muncy,
 Pa. (See adv. index, end of book)
 Stephens-Adamson Mfg. Co., Aurora, Ill.

WEBSTER MFG. CO., 1075 W 15th.
 Chicago, Ill., & 88 Reade, New York. (See
 adv. index & branch offices, end of book)
WELER MFG. CO., 124 E. North
 av., Chicago, Ill. (See adv. index, end of
 book)
 York Foundry & Engine Works, York, Neb.

Granite Column Cutting Machines

(See also Stone Cutting Machines, Etc.)
 St. Cloud Iron Works, St. Cloud, Minn.

Granite & Marble Polishing Machinery

(See also Stone Polishing Machinery)
HARRISON SUPPLY CO., 5 & 7 Dor-
 chester av Extension, Boston, Mass. (See
 adv. index, end of book)

Granulating Machines

Colton, Arthur, 184 Macomb, Detroit, Mich.
 Mulford, H. K. Co., 412 S 13th, Philadelphia, Pa.
 Simpson, Jas. S., 28 Rodney, Brooklyn, N. Y.

Grape Stemmer & Crushing Machines

Klotz Machine Co., Sandusky, O.

Gravity Incline Machines

Wellman-Seaver-Morgan Co., Cleveland, O.

Green Pea Cleaning & Grading Machines

Howes, S. Co., Silver Creek, N. Y.
 Huntley Mfg. Co. ("Monitor"), Silver Creek,
 N. Y.
 Invaluable Grain Cleaner Co., Silver Creek, N. Y.
PRAGUE CANNING MACHINERY
 Co. ("Clipper," "Eureka" & "Monitor"), 5
 Wabash av., Chicago, Ill. (See adv. index,
 end of book)

Grinding Machinery

See Grinders; also Mills, Grinding; also Paint
 Grinding & Mixing Machinery; also Pul-
 verizing Machinery)

Grinding & Polishing Machines

(See also Lathes, Boring & Polishing; also
 Grinders, Various Kinds; also Polishing
 Machines)
 Blount, J. G. Co. (Grinding, Polishing & Buff-
 ing Machines Combined), Everett, Mass.
 Diamond Machine Co. (Swing Frame), Provi-
 dence, R. I.
 Roth Bros. & Co. (Electric), Loomis & Adams,
 Chicago, Ill.
SUPERIOR CORUNDUM WHEEL CO.,
 Waltham, Mass. (See adv. index, end of
 book)

Grommet Setting Machines

Simpson, Edwin B. Co., 31 Spruce, New York

Grooving MachinesChase Turbine Mfg. Co. ("Chase's" Automatic)
Orange, Mass.**Grubbing Machines**

Howard, R. S., Cresco, Ia.
 Johland & Co., Burlington, Ia.
 Morrison, S. M. Mfg. Co., Denver, Col.
 Smith, W. Grubber Co., La Crosse, Wis.

Gun Barrel Drilling Machinery

Diamond Machine Co., Providence, R. I.
 Miles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Reed, F. E. Co., Worcester, Mass.

Gun Barrel Reaming Machines

Diamond Machine Co., Providence, R. I.
 Reed, F. E. Co., Worcester, Mass.

Gun Barrel Turning Machines

Reed, F. E. Co., Worcester, Mass.

Gun Loading Machinery

Ideal Mfg. Co., New Haven, Conn.

Gun Powder Machinery

Allentown Foundry & Machine Works, Allen-
 town, Pa.
 Ross, Chas. & Son Co., 148 Classon av., Brook-
 lyn, N. Y.
 Scott, Olin, Bennington, Vt.
WERNER & PFLEIDERER (Smoke-
 less), Saginaw, Mich. (See adv. index, end
 of book)

Gutta Percha Machinery

Watson Machine Co., Paterson, N. J.

Gutter Forming Machinery(See also Conductor Pipe & Eave Trough Ma-
chinery)

Double Truss Cornice Brake Co., Buffalo, N. Y.
 Eclipse Machine Co. ("Eclipse" Gutter Beading
 & Forming Machines), Troy, N. Y.
NIAGARA MACHINE & TOOL WORKS,
 Buffalo, N. Y. (See adv. index, end of book)

Gypsum Machinery

(See also Plaster Machinery)

BARTLETT, C. O. & SNOW CO.,
 French st., Cleveland, O. (See adv. index,
 end of book)
 Butterworth & Lowe (Inc.) (Gypsum Crush-
 ers), Grand Rapids, Mich.
 Cummer, F. D. & Son Co., Cleveland, O.
 Des Moines Mfg. & Supply Co., Des Moines,
 Iowa
 Ehrsam, J. B. & Sons Mfg. Co., Enterprise,
 Kan.

Hack Saw Machines

(See also Saw Blades & Frames, Hack)

Armstrong-Blum Mfg. Co. ("Marvel"), 113 N
 Francisco av., Chicago, Ill.
 Atkins, E. C. & Co., Indianapolis, Ind.
 Athol Machine Co., Athol, Mass.
 Buffalo Specialty Co. ("Two in One," "Tam-
 dem," "Duplex," Hand & Power), 375 Ell-
 cott, Buffalo, N. Y.
 Dayton Machine Works ("Victor"), Dayton, O.
 Diamond Saw & Stamping Works ("Sterling,"
 also High Speed), 357 7th, Buffalo, N. Y.
 Olsson, Henry & Sons, Tacony, Phila., Pa.
 Goodell-Pratt Co. (The "G"), Greenfield, Mass.
 Hofer Mfg. Co., ("Hofer," for Metal), Free-
 port, Ill.
 Massachusetts Saw Works (Portable), Chicago,
 Mass.
 Millers Falls Co. ("Star," Power), 28 Warren
 New York; Works: Millers Falls, Mass.
 Montgomery & Co., 105 Fulton, New York
 Napier Saw Machine Works, Springfield, Mass.
 Olmstead, L. H. ("Olmstead's," for Metal),
 Hasbrouck Heights, N. J.
 Patterson Tool & Supply Co. ("Challenge"),
 Dayton, O.
 Quincy - Manchester - Sargent Co. ("Q. & C."
 Power Shop), Plainfield, N. J.
 Racine Gas Engine Co. ("Racine" Power), Ra-
 cine, Wis.
 Robertson Mfg. Co. (Electrically Driven), Buf-
 falo, N. Y.
 Simonds File Co., Fitchburg, Mass.
 Simplex Mfg. Co. ("Simplex" Combination
 Bench Filer & Hack Saw), 90 West, N. Y.
 Story, H. T. (Draw Cut), 30 W. Randolph, Chi-
 cago, Ill.
STRONG, CARLISLE & HAMMOND
 Co. (The "Victor" Power), Cleveland, Ohio.
 (See adv. index, end of book)
 Thompson, Henry G. & Son Co. ("Eureka,"
 "Millford"), New Haven, Conn.
 West Haven Mfg. Co. ("Globe," "Universal"),
 New Haven, Conn.

Hair Washing Machines

Baker, G. W. & Co., Wilmington, Del.

Hand Bending Machines

Estep & Dolan, Sandwich, Ill.
 Freeman, A. W., 67 N. J. R. R. av., Newark,
 N. J.
 Globe Machine & Stamping Co., 3868 Hamill-
 ton av., Cleveland, O.
NIAGARA MACHINE & TOOL WORKS,
 (Sheet Metal), Buffalo, N. Y. (See adv. in-
 dex, end of book)

Hand Hole Cutting Machines

Chase Turbine Mfg. Co., Orange, Mass.
 Fischer Machine Works (Automatic for Wood),
 845 Canal, Chicago, Ill.

Hand Shearing Machines

New Doty Mfg. Co. (Hand Power), Janesville, Wls.
Niles-Bement-Pond Co., 111 B'way, New York

Hand Stamp Makers' Machinery

Force, W. A. & Co. (Inc), 59 Beekman, New York

Hand & Foot Power Machinery

(See Woodworking Machinery, Hand & Foot Power)

Handle Blank Sawing Machines

Klotz Machine Co. (For Cutting Out Shapes or Blanks for Handles, Staves, etc.), Sandusky, O.
Trevor Mfg. Co. (Automatic), Lockport, N. Y.

Handle Chucking & Boring Machines

Loetzer Valve & Mfg. Co. ("Booth" Automatic), Monroeton, Pa.

Handle Polishing Machines

Klotz Machine Co. (For Spokes & Handles), Sandusky, O.

Handle Scroll Machines

Klotz Machine Co. (For Wood Handles), Sandusky, O.

Handle Tumbling Machines

Trevor Mfg. Co. (For Smoothing Handles), Lockport, N. Y.

Handle Turning Machinery

(See Lathes, Handle Turning)

Hardware Machinery

Herrick & Cowell, New Haven, Conn.

Harness Machinery

International Harness Machinery Co., Cincinnati, O.
Randall, J. D. Co., Cincinnati, O.
Ross-Moyer Mfg. Co., Cincinnati, O.
Smith, F. H. Mfg. Co., 52 St. John's ct., Chicago, Ill.

Harness Riveting Machines

Smith, F. H. Mfg. Co., 52 St. John's ct., Chicago, Ill.

Harness Sewing Machines

(See also Sewing Machines, Harness; for page number consult Index of Contents)
Bauer Machine Co. ("Bauer" Lock Stitch, Wax Thread), Jeffersonville, Ind.
Campbell-Boswell Machinery Co. ("Campbell" Lock Stitch Wax Thread), 205 Lincoln, Boston, Mass.
International Harness Machinery Co. (Wax Thread), Cincinnati, O.
Landis Machine Co. (Wax Thread), St. Louis, Mo.
O'Flaherty, Jno. Co. (Blg Shuttle Lock Stitch, Wax Thread), Rouses Point, N. Y.
Puritan Mfg. Co. ("Puritan"), Boston, Mass.
Randall, J. D. Co., Cincinnati, O.

Harvesting Machinery

(See Harvesters, Various Kinds)

Hat Cleaning Machines

Slotkin, Mayer, 210 Canal, New York

Hatters' Machinery

Almond, David, Newark, N. J.
Doran Bros., Danbury, Conn.
Dubrow & Hearne Mfg. Co., 12 Wooster, New York
Helm Machine Co., Danbury, Conn.
Morelock, Wm., Danbury, Conn.
Muller, Fred., 214 Lackawanna, Newark, N. J.
New Machine Co., Danbury, Conn.
Newark Hat Block & Machine Co., Newark, N. J.
Reed, Chas., Danbury, Conn.
Turner Machine Co. (Also Hatters' Supplies), Danbury, Conn.
Yule & Carley Mfg. Co., Newark, N. J.

Heading, Upsetting & Forging Machines (Combined)

AJAX MFG. CO., 3830 Lakeside, N. E., Cleveland, O. (See adv. index, end of book)

Heating Machines

(See Annealing Machines; also Furnaces, Annealing & Case Hardening)

Hide Stamping Machines

Loegemann Bros. Co. ("Loegemann" Portable), Milwaukee, Wls.

Hide & Leather Working Machinery

Baker, G. W. & Co., Wilmington, Del.
Boyle, John Machine Co. (Shaving Machine), Peabody, Mass.
Corwin Mfg. Co., Peabody, Mass.
Evans' John Sons, 13th & Buttonwood, Phila., Pa.
Hide & Leather Wrkg. Machine Co. (Tanning & Currying Machines, Parts, Tools, etc.), Milwaukee, Wls.
Holmes, Chas. Machine Co., 299 Marginal, E. B., Boston, Mass.
Hutchinson Hide & Leather Machine Co., Winchester, Mass.
Layman, A. C., Wilmington, Del.
Loy & Mawrath, 25 Runyon, Newark, N. J.
McLeod, Jno. H. (Leather Finishing Pebble Rolls), 17 Treat pl, Newark, N. J.
Martin, Wm. F. (Tan Presses, Finishing Machines, etc.), Salem, Mass.
Modern Machinery Co., Wilmington, Del.
Munkwitz, Edw. H. Co., Milwaukee, Wls.
Newark Leather Machinery Co., Newark, N. J.
Peabody Leather Machinery Co., Peabody, Mass.
Slocumb, F. F. & Co. (Stalking & Glazing Machines, etc.), Wilmington, Del.
Turner Tanning Machinery Co., Peabody, Mass.
Union Leather Measuring Machine Co. (Leather Measuring Machines), Danversport, Mass.

Hinge & Butt Machinery

Baird Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Ferracute Machine Co., Bridgeton, N. J.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Hod Hoisting Machines

(See Elevators, Hod)

Hoe Rolling Machines

Birmingham Iron Foundry, Derby, Conn.

Hoisting Machinery

(See Cranes; also Derricks; also Engines, Hoisting; also Hoists of Various Kinds)

Hoisting Machinery (Pneumatic & Electric)

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

HOISTING MACHINERY
Pneumatic & Electric
DETROIT HOIST & MACHINE CO
DETROIT, MICH.

Hollow Building Block Machinery

(See Clay Building Block Machinery; also Concrete Building Block Machinery)

Hook Bending Machines

American Can Co. (Single & Double Rail Hook; Former for Lard Pails, Paint Buckets, etc.), 135 Adams, Chicago, Ill.

Hook & Eye Machinery

Baird Machine Co., Oakville, Conn.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.
Special Machinery Co. (Automatic), Bridgeport, Conn.

Hoop Machinery

(See also Barrel Machinery)

Defiance Machine Works, Defiance, O.
Merritt Mfg. Co. ("Trautman," Saws, Planes, Paints & Laps), Lockport, N. Y.

Hoop Nailing Machines

Holmes, E. & B. Machinery Co. ("Trautman"), Buffalo, N. Y.

Horn Working Machinery

Cook, F. H. & Co., Leominster, Mass.

Horse Clipping Machines

(See also Clippers, Horse; also Sheep Shearing Machines)

American Shearer Mfg. Co. ("Priest's"), Nashua, N. H.

CHICAGO FLEXIBLE SHAFT CO. ("20th Century" & "Stewart" Ball Bearing), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft, Electric, etc.), Worcester, Mass. (See adv. index, end of book)

Gillette Clipping Machine Co., 114 W 32d, New York
Stow Flexible Shaft Co., Binghamton, N. Y.

Horse Collar Machinery

(See also Harness Machinery)

Foglesong, W., Dayton, O.
Randall, J. D. Co., Cincinnati, O.

Horse Grooming Machines

CHICAGO FLEXIBLE SHAFT CO. ("Stewart," Reversible), La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)

Horseshoe Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Hose Machines (Rubber Mill)

Adamson, A., Akron, O.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Birmingham Iron Foundry, Derby, Conn.
New England Butt Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

Hot Forge Nut Machines

National Machinery Co., Tiffin, O.

Hot Pressed Nut Machines

(See Nut Machines, Hot Pressed)

Hot Rolled Stock Straightening & Cutting Machinery (Automatic)

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Hot Sawing Machines

(See also Cold Saw Cutting-Off Machines)

AJAX MFG. CO., 3830 Lakeside, N. E., Cleveland, O. (See adv. index, end of book)

Billings & Spencer Co., Hartford, Conn.
Espin-Lucas Machine Works (High Speed, etc., for Foundry, Forge, etc.), 342 N 15th, Phila., Pa.

Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.

Fischer Foundry & Machine Co., Ford City, Pa.
Lewis Foundry & Machine Co., Coraopolis, Pa.

Mesta Machine Co., Pittsburg, Pa.
Philadelphia Roll & Machine Co. (For Hot Metal), S 22d & Washington av, Phila., Pa.

Scaife Foundry & Machine Co., 28th & Smallman, Pittsburg, Pa.

United Engineering & Foundry Co. (Sliding, Swinging & Stationary Saw for Rolling Mills), Farmers' Bank bldg, Pittsburg, Pa.

Hub Boring Machines

Abhatt & Co., Hudson, Mich.
Defiance Machine Works, Defiance, O.
Kane & Roach, Syracuse, N. Y.
Silver Mfg. Co. ("Dole & Silver"), Salem, O.
Smith, Phillip Co., Sidney, O.

Hub Boxing Machines

Silver Mfg. Co. ("Dole" & "Silver"), Salem, O.

Hub, Spoke & Rim Machinery

Abbott & Co. (Hub Bore), Hudson, Mich.
 Bentel & Margedant Co., Hamilton, O.
 Cordesman, Rechlin Co. (Boring), Cincinnati, O.
 Defiance Machine Works, Defiance, O.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Kane & Roach (Boring), Syracuse, N. Y.
 Ober Mfg. Co. (Spoke), Chagrin Falls, O.
 Silver Mfg. Co. (Tenon Machines), Salem, O.
 Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
 Smith, Philip Co., Sidney, O.
 Stearns, E. C. & Co., 100 Oneida, Syracuse, N. Y.

Hydrating Machines

(See Lime Hydrating Machinery)

Hydraulic Machinery

See Accumulators, Hydraulic.
 Cranes, Hydraulic.
 Dredging Machinery, Hydraulic.
 Gauges, Hydraulic.
 Hydraulic Rams.
 Jacks, Hydraulic.
 Lifts, Hydraulic.
 Presses, Hydraulic, Various Kinds.
 Pumps, Hydraulic.
 Punches, Hydraulic.
 Riveting Machines, Hydraulic.
 Etc., Etc., Etc.

Ice Chipping Machines

Davenport Ice Chipping Machine Co. (B. L. Schmidt, Prop.), Davenport, Ia.

Ice Cream Machines

(See also Freezers, Ice Cream)

Allman Gas Engine & Machine Co. ("Champion," also Ice Cream Machine & Ice Breaker Combined), 461 Canal, New York
GRISCOM-SPENCER CO. ("Brine" Emery-Thompson Vertical), 90 West, New York, & ft Washington av, Phila., Pa.
 (See adv. index & branch offices, end of book)
 Wallace, Jno. W. Co., 44 E 23d, New York

Ice Cream Biscuit Machines

Union Machine Works & Iron Foundry, 1825 S Water, Phila., Pa.

Ice Cube Cutting Machines

Blakeslee, G. S. & Co. ("Blakeslee"), 325 Dearborn, Chicago, Ill., & 260 B'way, New York
 Reinhold Mfg. Co. ("Jumbo"), Detroit, Mich.

Ice Handling Machinery

Dodge Mfg. Co., Mishawaka, Ind.
 Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
 Haughton Elevator & Machine Co., Toledo, O.
 Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
 Interstate Engineering Co., Bedford, O.
 Klotz Machine Co., Sandusky, O.

Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York
 Mey Chain Belting Engineering Works, 77 Washington, Buffalo, N. Y.
 Pittsburg Conveying Machinery Co., Pittsburg, Pa.
 Schultz, A. L. & Son, 570 Elston av, Chicago, Ill.

Ice Machines (Portable)

Barber, A. H. Creamery Supply Co., 229 S Water, Chicago, Ill.
 Murray Iron Works Co., Burlington, Ia.
 United Iron Works Co., Springfield, Mo.
 York Mfg. Co. (Ltd.), York, Pa.

Ice Pick Machines

NIAGARA HANDLE & FERRULE CO.
 321 N Holliday, Baltimore, Md. (See adv. index, end of book)

Ice Recording Machines

Stevenson Co. (Ltd.), Chester, Pa.

Ice & Refrigerating Machines

Alamo Iron Works (Inc.), San Antonio, Tex.
 American Linde Refrigeration Co., 346 B'way, New York
AMERICAN MACHINE CO., Louisville, Ky. (See adv. index, end of book)
 Arctic Ice Machine Co., Canton, O.
 Althoff Mfg. Co., Denver, Colo.
 Atlanta Machine Works, Atlanta, Ga.
 Automatic Refrigerator Co., Hartford, Conn.
 Barber, A. H. Creamery Supply Co., 229 S Water, Chicago, Ill.
 Brown-Cochran Co. (Carbonic Anhydride System), Lorain, O.
 Brunswick Refrigerating Co., New Brunswick, N. J.
 Buckeye Engine & Foundry Co., Joliet, Ill.
 Buffalo Engine Co., Buffalo, N. Y.
 Boland Machinery Co. ("20th Century"), 209 S Clinton, Chicago, Ill.
 Buffalo Refrigerating Machine Co., 126 Liberty, New York; Works: Harrison, N. J.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Carbondale Machine Co. ("The Hendrick"), Carbondale, Pa.
 Carolina Ice Machine Co., Charlotte, N. C.
 Castle Ice Machine Co., Indianapolis, Ind.
 Cleveland Ice Machine Co., 1615 Merwin, N W, Cleveland, O.
 Columbus Iron Works Co., Columbus, Ga.
 Creamery Package Mfg. Co. ("Barber"), 182 E Kefzie, Chicago, Ill.
 De La Vergne Machine Co., ft E 138th, New York
 Edgar Mfg. Co., 310 W 20th, Kansas City, Mo.
 Featherstone Foundry & Machine Co., 303 Railway Ex., Chicago, Ill.
 Forbes, W. D. Co., New London, Conn.
 Frick Co., Waynesboro, Pa.
 Goldens' Foundry & Machine Co., Columbus, O.
 Great Lakes Engineering Works, Detroit, Mich.
 Huettelman & Cramer Co., Beaufort & Mack av, Detroit, Mich.
 Ice & Cold Machine Co., 3003 N B'way, St. Louis, Mo.
 Imperial Ice Machine Co., 11 B'way, New York
 Kroeschell Bros. Ice Machine Co., 31 Erie, Chicago, Ill.

Larsen-Baker Ice Machine Co. (2 to 50 tons), Omaha, Neb.
 Macdonald Engineering Co., 98 Jackson boul, Chicago, Ill.
 Maynard, J. F. (for Brewers, Packers, Confectioners & Dairies), 122 Geyer av, St. Louis, Mo.
 Meese & Gottfried Co. (Linde System), 167 Fremont, San Francisco, Cal.
 Murray Iron Works Co., Burlington, Ia.
 New Britain Machine Co., New Britain, Conn.
 New Process Refrigerating Machine Co. (for Families, Butchers, Restaurants, Vessels, etc.), Detroit, Mich.
 Newburgh Ice Machine & Engine Co., Newburgh, N. Y.
 Niebling, F. W. Co., Norwood, Cincinnati, O.
 Otto, Geo. F., 209 Buttonwood, Phila., Pa.
 Pennsylvania Engineering Co. (Engineers & Contractors), 1119 N Howard, Phila., Pa.
 Rebsamer & Almeroth, 1071 Elston av, Chicago, Ill.
 Remington Machine Co., Wilmington, Del.
 Riverside Iron Works Co., Kansas City, Kan.
 Roelker, H. B. ("Allen" Dense Air), 41 Maiden la, New York
 Ruemmeli-Dawley Mfg. Co., 3900 Chouteau av, St. Louis, Mo.
 Spangler Mfg. Co. (Small), York, Pa.
 Steel & Condict (Inc.), Jersey City, N. J.
 Triumph Ice Machine Co., Cincinnati, O.
 United Iron Works, Oakland, Cal.
 United Iron Works Co. (1/4 to 50 Tons per Day), Springfield, Mo.
 U. S. Automatic Ice Machine Co. (Automatic), Dayton, O.
 Van Zandt-Moore Iron Works, Fort Worth, Tex.
VILTER MFG. CO., 1046 Clinton, Milwaukee, Wis. (See adv. index, end of book)
 Vogt, Henry Machine Co., Louisville, Ky.
 Vulcan Iron Works, 505 Mission, San Francisco, Cal.
 Wegener Machine Co., c Perry & Mississippi, Buffalo, N. Y.
 Wolf, Fred. W. Co. ("Linde"), 141 Rees, Chicago, Ill.
 Zero Refrigerating Machine Co., 200 B'way, New York

Incandescent Lamp Making Machinery
 York Electric Machine Co., York, Pa.

Index Machines

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)

Ink Grinding Machines

(See Mills, Ink Grinding)

Insulating Machines

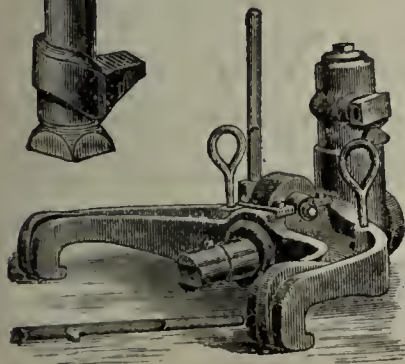
(See Wire Insulating Machinery; see also Wire & Cable Covering Machinery)

Insulator Pin, Bracket & Cross Arm Machinery

Chattanooga Machinery Co., Chattanooga, Tenn.
 Defiance Machine Works, Defiance, O.

Ironing Machines

(See Laundry Machinery)



WATSON-STILLMAN HYDRAULICS.

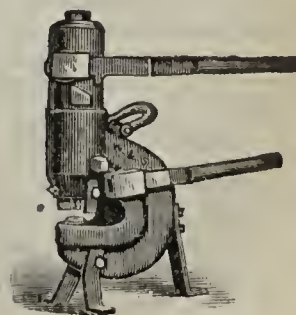
We are prepared to build any kind of a Hydraulic Machine, or Tool you may need from the heaviest to the lightest.
 Our regular line embraces Punches, Benders and nearly 300 varieties of Hydraulic Jacks.

General Index showing full line sent on request.

WATSON-STILLMAN CO.

OFFICES:

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Irrigating Machinery

(See Pumps, Irrigating)

Jar Ring Machines

(See Lathes, Jar Ring)

Jewelers' Machinery

American Oil & Supply Co., Newark, N. J.
 Leiman Bros., 139 Center, New York
 Moseley Lathe Co., Elgin, Ill.
 Ruesch, H. J. Machine Co., 28 Green, Newark, N. J.
 Standard Machinery Co., Providence, R. I.

Jewelers' & Opticians' Machines & Tools

Langellier Mfg. Co., 67 Clifford, Providence, R. I.

Joggling Machines for Shipyards

MORGAN ENGINEERING CO. (Elec-
 trical, with Hand Crane), Alliance, O. (See
 adv. index & branch offices, end of book)

Joint Wiping Machines

United Brass Mfg. Co., Cleveland, O.

Jointing Machines

Silver Mfg. Co. (Haud), Salem, O.

Jolly Machines for Stoneware, Etc.

Williams Foundry & Machine Co., Akron, O.

Keel Plate Bending Machines (Hydraulic)

MORGAN ENGINEERING CO., All-
 alliance, O. (See adv. index & branch offices,
 end of book)

Keg Machinery

(See Barrel, Keg, Stave & Heading Machinery)

Key Filing Machines

Hess Machine Works, 2512 Callowhill, Phila., Pa.

Keyseat Broaching Machines

Lapointe Machine Tool Co., Hudson, Mass.

Key-Seating Machines

Baker Bros. ("Colburn"), Toledo, O.
 Burr, John T. & Sons, 429 Kent av, Brooklyn, N. Y.
 Chattanooga Machinery Co. (The "Catlin"), Chattanooga, Tenn.
 Crompton & Knowles Loom Works, Worcester, Mass.
 Davis, W. P. Machine Co., Rochester, N. Y.
FREVERT MACHINERY CO., 18 Dey,
 New York, (See adv. index, end of book)
 Mercury Machine Co. ("Lake," Portable), 2117 N Broad, Phila., Pa.
 Mitts & Merrill (Grant), Saginaw, Mich.
 Morton Mfg. Co., Muskegon Heights, Mich.
 Niles-Bement-Pond Co., 111 B'way, New York
 Novelty Iron Works (G. E. Davis, Prop.) (Hub), Duquaque, Ill.
 Ryerson, Jos. T. & Son (Portable Automatic), 16th & Rockwell, Chicago, Ill.

Key-Way Machines

Baker Bros. ("Colburn"), Toledo, O.
 Davis, W. P. Machine Co., Rochester, N. Y.
 Morton Mfg. Co., Muskegon Heights, Mich.
 Niles-Bement-Pond Co., 111 B'way, New York

Kindling Wood Machinery

(See also Wood Sawing & Splitting Machinery)

American Sawmill Machinery Co., 50 Church, New York; Works: Hackettstown, N. J.
 Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
 Badger Gas & Gasoline Engine Co. (Portable, Gasoline, Cord Wood, Sawing Machine), Kansas City, Mo.
 Dedrick, P. K. Sons, Albany, N. Y.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Greene Mfg. Co., 296 Oakland, Brooklyn, N. Y.
 Hildreth Bros., Harvard, Mass.
 Hill, W. E. & Co., Kalamazoo, Mich.
 Spangler Mfg. Co., York, Pa.
 Staufer, Geo. E., East Stroudsburg, Pa.

Kneading & Mixing Machines

Landers, Frary & Clark ("Universal," Bread Kneading & Mixing), New Britain, Conn.
 Prims Machinery Co. (Mixing & Kneading), Battle Creek, Mich.
 Ross, Chas. & Son Co. (For Putty, Dough & Rubber, etc.), 148 Classon av, Brooklyn, N. Y.

WERNER & PFLEIDERER ("Uni-
 versal," for Food, Chemicals, etc.), Saginaw, Mich. (See adv. index, end of book)

Knife Balancing Machinery

Bentel & Margedant Co., Hamilton, O.
 Defiance Machine Works, Defiance, O.
 Fay, J. A. & Egan Co., Cincinnati, O.

Knife Polishing & Buffing Machines

Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill., & 260 W B'way, New York

Knitting Machinery

(See Textile Machinery; for page number consult index of Contents)

Kraut Cutting Machines

(See Cutters, Kraut)

Kraut Machines

(See also Cutters, Kraut)

SPRAGUE CANNING MACHINERY
 Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Label Varnishing Machines

Chambers Bros., 52d below Lancaster av, Phila., Pa.

Labeling Machines

BECK, CHAS. PAPER CO. (LTD.), 607
 Chestnut, Phila., Pa. (See adv. index, end of book)

Bottlers' Machinery & Mfg. Co., 67 Wells, Chicago, Ill.

Burt Machine Co. (Can, etc.), Baltimore, Md.
 Dayton Machine Works, Dayton, O.

Economic Mch. Co. ("Star" & "World"), Worcester, Mass.

Emmke-Hancock Co. ("Emmke-Hancock," Automatic Bottle Labeling Machines), Milwaukee, Wis.

Ermold, Edw. ("Ermold," Bottle), 656 Hudson, New York

Girard Machine Works (Inc.), 2616 Girard av, Philadelphia, Pa.

Knapp, Fred H. & Co., 5 Wabash av, Chicago, Ill.

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. index & branch offices, end of book)

Kramer Bros. Foundry Co., Dayton, O.

Leffler, Chas. & Co. ("Brooklyn" Bottle, Can & Package), 63 Clymer, Brooklyn, N. Y.

Morrall Bros. ("Morrall" Can, etc.), Morrall, O.

Royal Machine Co., Newark, N. J.

SPRAGUE CANNING MACHINERY
 Co. ("Knapp" Tin Can), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Welseopf, L. (For Bottle or Cans), 20 Vesey, New York

Laboratory Machinery

Colton, Arthur, 184 Brush, Detroit, Mich.
 Day, J. H. Co., Cincinnati, O.

Lacquering Machines

Ohl, Geo. A. & Co. (For Tin, Metal & Card-board, etc.), 157 Oratlon, Newark, N. J.

Lag Screw Gimlet Pointing Machines

National Machinery Co., Tiffin, O.

Lag Screw Threading Machines

Cook, Asa S. Co., Hartford, Conn.

Lamp Burner Shaft Machinery

Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.

Lapping Machines

(See also Textile Machinery)

Blake & Johnson, Waterbury, Conn.
 Builders' Iron Foundry, Providence, R. I.
 Diamond Machine Co., Providence, R. I.
 LeBlond, R. K. Machine Tool Co., 4600 Eastern av, Cincinnati, O.
 Mitts & Merrill (for Band Saws), Saginaw, Mich.
 Niles-Bement-Pond Co., 111 B'way, New York
 Northampton Emery Wheel Co., Leeds, Mass.
 Rhode Island Braiding Machine Co., Providence, R. I.

Last Machinery

Kimball Bros. & Sprague, Brockton, Mass.

Lath Mill Machinery

Abbott, D. S. Co., Olean, N. Y.
 American Wood Working Machinery Co. Rochester, N. Y., West bldg, New York
 Bartlett, A. F. & Co., Saginaw, Mich.
 Bolton Lath & Shingle Machinery Co., Minneapolis, Minn.
 Butterworth & Lowe (Inc.) (Sheathing, Lath, etc.), Grand Rapids, Mich.
 Chase Turbine Mfg. Co., Orange, Mass.
 Cook, B. A., Stevens Point, Wis.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Diamond Iron Works, Minneapolis, Minn.
 Garland, M. Co., Bay City, Mich.
 Lane Mfg. Co., Montpelier, Vt.
 Mitts & Merrill, Saginaw, Mich.
 Smith, Myers & Schuler, Cincinnati, O.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Stearns Mfg. Co., Erie, Pa.
 Union Iron Works, Bangor, Me.
 Wheeland Machine Works, Chattanooga, Tenn.
 Wiekes Bros., Saginaw, Mich.

Laundry Machinery

(See also Laundry Dryers, Tubs, Etc.)

Adams Laundry Machinery Co. ("Sharps" Washers, etc.), 1935 6th av, Troy, N. Y.
 American Bell & Foundry Co. ("Gem" C. & C. Ironers, etc.), Northville, Mich.
 American Ironing Machine Co. ("Simplex" Ironer), 28 E Lake, Chicago, Ill.
 American Laundry Machinery Co. (Mangles, Cylinder Washers, etc.), Norwood, Cincinnati, O., & 132 W 27th, New York
 American Laundry Machinery Mfg. Co., 80 Franklin, Chicago, Ill.
 Ashler Mangle Co., Williamsville, Conn.
 Atlas Laundry Machinery Co. ("C. & C." Ironers & "Hercules" Mangles, etc.), Cincinnati, Ohio
 Barnes & Erp Co. ("C. & C." Ironers, "Eclipse" Seam Dampeners, Reverse Body Ironers, etc.), 3846 Lancaster av, Phila., Pa.
 Bess Laundry Machinery Co., Hamilton, O.
 Bishop, Geo. H. ("C. & C." Strainers & Specialties), 59 W Washington, Chicago, Ill.
 Boland Machine & Mfg. Co., New Orleans, La.
 Chicago Addition Mangle Co., 74 W Monroe, Chicago, Ill.
 Chicago Dryer Co. (Clothes Dryers, Steam, Hot Water & Gas), 381 Wabash av, Chicago, Ill.
 Chicago Laundry Machinery Co. ("Floran" Seam Dampeners, Fold Collar Shaper & Edger, "C. & C." Edgers), 16 S Canal, Chicago, Ill.
 Chicago Rival Machine Co., 670 Lincoln av, Cleveland Laundry Machinery Co., 5222 Track rd, S E, Cleveland, O.
 Columbia Mfg. Co. ("Hurricane" Dryers, "F" & "C. & C." Ironers, etc.), Columbia, Pa.
 Dawson, A. L. & Co., 47 Jefferson, Chicago, Ill.
 Empire Laundry Machinery Co., Boston, Mass.
 Grever, Kerhoff & Co. (Body Ironers), 59 Central av., Cleveland, O.
 Helm Machinery Co., Danbury, Conn.
 Hendy, Joshua, Machine Works 38 Fremont San Francisco, Cal.
 Henriel Laundry Machinery Co., Chelsea, Mass.
 Horning & Miller, 548 N Halsted, Chicago, Ill.
 Hoyt Mfg. Co. (C. & C. & S. Ironers), 116 1st av, N. Minneapolis, Minn.
 Huebner Spray Dampener Co., Milwaukee, Wis.
 Interstate Machinery Co., Troy, N. Y.
 Lovewell-Henriel Co. ("The Henriel" Extractors, Dampening Presses, etc.), Chelsea, Mass.
 Lutes, W. H. Co., 2700 Evanston av, Chicago, Ill.
 Mateer, F. W. & Co. (Extractors, C. & C. Ironers, Cylinder Washers, etc.), 7 S Jefferson, Chicago, Ill.
 Minneapolis Brass & Iron Mfg. Co., Minneapolis, Minn.
 National Laundry Machinery Co., Dayton, O.

Nelson & Kreuter Co. ("Champion" C. & C. Ironers, Cylinder Washers, etc.), 40 S Clinton, Chicago, Ill.
Oakley & Keating, 673 Manhattan av, Brooklyn, N. Y.

Poland Laundry Machinery Co., 41 Kenble, Boston, Mass.
Porter & Erwin, Cedar Rapids, Iowa
Reed Mfg. Co. (Collar Shapers), Erie, Pa.
Sanitary Laundry Machinery Co., Tell City, Ind.

Southern Laundry Machinery Co., Atlanta, Ga.
Stebbins Mfg. Co., Denver, Colo.
Steel Roll Machine Co., 234 E Madison, Chicago, Ill.

Stone, C. F. Co., 131 Sangamon, Chicago, Ill.
Tollhurst Machine Works, Troy, N. Y.
Troy Laundry Machinery Co. (Ltd.), Troy, N. Y.

U. S. Laundry Machinery & Supply Co., B'way & 2d, Cincinnati, O.
Western Laundry Machinery Co., San Francisco, Cal.

Wiley Co., Betz bldg, Phila., Pa. Works, South Windham, Conn.
Windsor Locks Machine Co., Windsor Locks, Conn.

Lead Pipe & Trap Machinery

Robertson, Jno. & Co. (Also for Sheet Lead, etc.), 129 Water, Brooklyn, N. Y.

Leather Brushing Machines

Baker, G. W. & Co. (For Harness, Shoe, Russia & Sheep Leather), Wilmington, Del.

Leather Calculating Machines

Baker, G. W. & Co., Wilmington, Del.

Leather Creasing Machines

Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.
Randall, J. D. Co., Cincinnati, O.
Stimpson, Edwin B. Co., 31 Spruce, New York

Leather Cutting Machines

Ohl, Geo. A. & Co. (Also for Fibre), 157 Oratton, Newark, N. J.

Leather Embossing Machines

Osborne, C. S. & Co. (Harness Makers, etc.), Harrison, N. J.
Randall, J. D. Co., Cincinnati, O.

Leather Finishing Machines

Martin, Wm. F., Salem, Mass.

Leather Fleshing & Slating Machines

Baker, G. W. & Co. ("New National"), Wilmington, Del.

Leather Glazing Machines

Baker, G. W. & Co., Wilmington, Del.

Leather Measuring Machines

Baker, G. W. & Co. ("Sawyer's"), Wilmington, Del.

Leather Punching Machines

Ohl, Geo. A. & Co. (Also for Fibre), 157 Oratton, Newark, N. J.
Randall, J. D. Co., Cincinnati, O.

Leather Rolling & Stoning Machines

Baker, G. W. & Co., Wilmington, Del.

Leather Setting & Stoning-Out Machines

Baker, G. W. & Co. (Reversible Drum), Wilmington, Del.

Leather Shaving Machines

Baker, G. W. & Co., Wilmington, Del.

Leather Slitting & Finishing Machines

Randall, J. D. Co. (Power, Round Edge), Cincinnati, O.

Leather Splitting Machines

American Tool & Machine Co. (Belt Knife), 100 Beach, Boston, Mass.
Baker, G. W. & Co. ("Western Union"), Wilmington, Del.
Simpson, Edwin B. Co., 31 Spruce, New York

Leather Staking Machines

Baker, G. W. & Co. ("Baker" & "Wilmington" Roller), Wilmington, Del.

Leather Stamping Machines

Baker, G. W. & Co. (For Hides, Skins & Leather), Wilmington, Del.

Leather Whitening Machines

Baker, G. W. & Co. (For Splits & Harness Leather, etc.), Wilmington, Del.

Leather Working Machinery

(See Hide & Leather Working Machinery)

Letter Folding Machines

Dick, A. B. Co. (Automatic), 161 W Jackson, Boul, Chicago, Ill.

Leveling Machines for Sheets

Poole, J. Morton Co., Wilmington, Del.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Lime Hydrating Machinery

Clyde Iron Works, Duluth, Minn.
Kritzer Chas. C. ("Kritzer" Continents), 17th & Western av, Chicago, Ill.
National Brick Machinery Co., 138 Wash'n, Chicago, Ill.

Lime Slacking & Mixing Machines

Deming Apparatus Co. (Lime Slacking Tanks & Pumps), 76½ Pine, New York
Teal, Chas. A., 1361 Ridge av, Phila., Pa.

Linoleum & Floor Cloth Machinery

Dlenelt & Elsenhardt (Printing), 1308 N. Howard, Phila., Pa.
Farrel Foundry & Machine Co., Ansonia, Conn.
Moore & White Co. (Printing), 15th & Lehigh av, Phila., Pa.

Linseed Oil Machinery

(See also Cotton Seed Oil Machinery)

ELMES, CHAS. F. ENGINEERING
Works, cor. Fulton & N. Sangamon, Chicago, Ill. (See adv. index, end of book)
French Oil Mill Machinery Co., Piqua, O.

Liquid Filling Machines

SPRAGUE CANNING MACHINERY
Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Lock Corner Box Machinery

Bentel & Margedant Co. (Single & Double End), Hamilton, O.
Chase Turbine Mfg. Co. (Automatic Box Presses), Orange, Mass.
Connell & Dengler Machine Co. (Box Trimmers, Box Pressing, etc.), Rochester, N. Y.
Fay, J. A. & Egan Co., Cincinnati, O.
Morgan Machine Co., Rochester, N. Y.
Nicholls Mfg. Co., Ottumwa, Ia.

Lock Mortising Machines

CORBIN CABINET LOCK CO. (Mortising for Locks & Keyhole Boring), New Britain, Conn.
Miller, A. W. Mfg. Co. ("Miller"), 5th & Sycamore, Cincinnati, O.
Perfection Mfg. Co. ("Perfection"), Columbus, Ohio

Log Hauling Machines

(See Log Hauls)

Macaroni Machinery

Cavagnaro, Jno. J., 215 Centre, New York
City Machine Co., Cleveland, O.
Collins-Gunther Co., San Antonio, Tex.
Oelman & Co., Detroit, Mich.
Ross, Chas. & Son Co., 148 Classon av, B'klyn, N. Y.

WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)

Manifold Shipping Machines

Egry Autographic Register Co., Dayton, O.

Marble Copping Machines

MEYERS, WILLARD F., 342 Vernon
av, Long Island City, N. Y. (See adv. index, end of book)

Marble Moulding & Countersinking Machines

MEYERS, WILLARD F., 342 Vernon
av, Long Island City, N. Y. (See adv. index, end of book)
Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.

Marble Oval Hole Cutting Machines

Holub-Dusha Co., 1799 1st av, New York

Marble Polishing Machines

(See Stone Polishing Machines)

Marble Working Machinery

(See Stone Working Machinery, Etc.)

Mashing Machines

VILTER MFG. CO., 1046 Clinton,
Milwaukee, Wis. (See adv. index, end of book)

Match Box Machinery

Birch & Birch (All Sizes), Crawfordsville, Ind.
Dietz Machine Works, 126 Fountain, Phila., Pa.
Kent Machine Co., Toledo, O.
Woodbridge Machine Works, Detroit, Mich.

Match Machinery

Diamond Match Co., 56 Michigan av, Chicago, Ill., & Barberton, O.
Dietz Machine Works, 126 Fountain, Phila., Pa.
Herrick & Cowell, New Haven, Conn.
Reinhold Machine Co., Detroit, Mich.
Woodbridge Machine Works, 127 Brush, Detroit, Mich.

Matting Weaving Machines

Crompton & Knowles Loom Works (For Japanese Matting), Worcester, Mass.

Mattress Machinery

(See Woven Wire Mattress Machinery)

Meat Can Stuffing Machines

American Can Co. (Rotary), 135 Adams, Chicago, Ill.

Metal Beading Machines

(See Crimping & Beading Machines)

Metal Boring Machines

(See also Mills, Boring & Turning; also Boring & Drilling Machines, Horizontal)

American Tool Works Co., Cincinnati, O.
Baker Bros., Toledo, O.
Barrett Machine Tool Co. ("Barrett"), Cylinder, Meadville, Pa.
Baush Machine Tool Co., Springfield, Mass.
Beaman & Smith Co., Providence, R. I.
Birdsboro Steel Foundry & Machine Co. ("Wagner," Cold Sawing), Birdsboro, Pa.
Cincinnati-Bleford Tool Co., Cincinnati, O.
Fitchburg Machine Works, Fitchburg, Mass.
Fox Machine Co., Grand Rapids, Mich.
Gardam, Wm. & Son (Inc.), 221 Fulton, New York
Garvin Machine Co., 137 Varick, New York
Harrington, E. Son & Co. (Inc.), 17th & Callowhill, Phila., Pa.

HEARTLEY MACHINE, VARIETY
Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Penley, M. C., Richmond, Ind.
Herron-Webb Engineering Co. ("Black Diamond" for Armature Bearings), Monongahela, Pa.

Lucas Machine Tool Co., Cleveland, O.
Manning, Maxwell & Moore, 85 Liberty, New York

New Haven Mfg. Co., New Haven, Conn.
Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.

Niles-Bement-Pond Co., 111 B'way, New York
Pratt & Whitney Co., Hartford, Conn.
Prentice Bros. Co., Worcester, Mass.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila-
delphia, Pa.
Warner & Swasey Co., Cleveland, O.

Metal Boring Machines (Horizontal)
(See Boring & Drilling Machines, Horizontal)

Metal Boring Machines (Vertical)
American Tool Works Co., 6th & Eggleston av.,
Cincinnati, O.
Betts Machine Co., Wilmington, Del.
Bickford, H., Lakeport, N. H.
Bullard Machine Tool Co., Bridgeport, Conn.
Cornell, J. B. & J. M. Co., 26th & 11th av.,
New York
Niles-Bement-Pond Co., 111 B'way, New York
Prentice Bros. Co., Worcester, Mass.

Metal Culvert Machinery
NIAGARA MACHINE & TOOL WORKS,
Buffalo, N. Y. (See adv. index, end of book)

Metal Cutting-Off Machines
(See also Cold Saw Cutting-Off Machines; also
Hot Sawing Machines)

Brown & Sharpe Mfg. Co., Providence, R. I.
CLEVELAND PUNCH & SHEAR
Works Co., 1306 E. 40th, Cleveland, O. (See
adv. index, end of book)
Davenport-McCullough Mfg. Co., Blissfield, Mich.
Davis, W. P. Machine Co. (Cold), Rochester,
N. Y.
Higley Machine Co., Croton Falls, N. Y.
Hurlbut-Rogers Machine Co., South Sndbury,
Mass.
Niles-Bement-Pond Co., 111 B'way, New York
Nutter, Barnes & Co., 326 A. Boston, Mass.
PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)

Metal Edge Box Machines
National Metal Edge Box Co. (Automatic), 8th
& Willow, Phila., Pa.

Metal Jig Sawing Machines
Thompson, H. G. & Son Co. ("Eureka"), New
Haven, Conn.

Metal Power Sawing Machines
Thompson, H. G. Son Co. ("Eureka" Hack Saw
Pattern), New Haven, Conn.

Metal Sawing Machines
(See Cold-Saw Cutting-off Machines; also Hot
Sawing Machines)

Metal Tank Machinery
NIAGARA MACHINE & TOOL WORKS,
Buffalo, N. Y. (See adv. index, end of book)

Metal Wheel Machinery
HEARTLEY MACHINE, VARIETY
Iron & Tool Works (Metal Wheel Tools of
All Descriptions), Toledo, O. (See adv.
index, end of book)

Milk Can Washing Machines
Dairymen's Mfg. Co., Jersey City, N. J.

Milk Condensing Machinery
Huetteman & Cramer Co., Detroit, Mich.
Rogers, C. T. (& Factory Construction), 1440
Grand River av, Detroit, Mich.

Milk Pasteurizing Machinery
Burke Machinery Co., Cleveland, O.

Milling Machines
(See also Milling Machines, Bench or Hand)
Adams Co. ("The Farewell Horizontal"), Du-
buque, Ia.
Aurora Tool Works (Plain & Universal), Aurora
Ind.
Beaman & Smith Co. (Horizontal with one or
more spindles), Providence, R. I.

Becker Milling Machine Co. (Horizontal, Plain,
Vertical, Universal, Large Hand & Planer
Type), Hyde Park, Mass.
Brown & Sharpe (Universal, Plain, Hand &
Vertical Spindle), Providence, R. I.
Burke Machinery Co., Cleveland, O.
Burr, Jno. T. & Sons (Slab Miller), 429 Kent
av., Brooklyn, N. Y.
Cincinnati Milling Machine Co. (Plain, Uni-
versal & Vertical), Cincinnati, O.
Cleveland Automatic Machine Co. (Worm, etc.),
Cleveland, O.
Cleveland Machine Screw Co. (Worm, etc.),
Cleveland, O.
Clough, R. M. (Vertical), Tolland, Conn.
Cook, Asa S. Co. ("Colt" & "Cook"), 80
Huyslope av, Hartford, Conn.
Epsen-Lucas Machine Works, 342 N 15th, Phila.,
Pa.
Fay & Scott, Dexter, Me.
Fosdick Machine Tool Co. (Horizontal), Blue
Rock & Apple, Cincinnati, O.
Fox Machine Co. (Electrically Driven), Grand
Rapids, Mich.

FREVERT MACHINERY CO. (Mfrs.)
Agents & Dealers), 18 Dey, New York. (See
adv. index, end of book)
Garvin Machine Co. (Universal, Plain, Verti-
cal, Hand, Duplex, Double Face & Traverse
Heads), 137 Varick, New York
Griswold, Geo. M., 35 Union, New Haven, Conn.
Hendy Machine Co. (Horizontal, Plain & Uni-
versal, etc.), Torrington, Conn.
Hibbard, Wm. H. Mfg. Co. (Vertical), 79 Wash-
ington, Brooklyn, N. Y.
Hilles & Jones Co., Wilmington, Del.
Horton, Jas. A., Greenfield, Mass.
Ingersoll Milling Machine Co. (Heavy, Hori-
zontal or Vertical Spindle), Rockford, Ill.
Kearney & Trecker Co., Milwaukee, Wis.
Kemp Smith Mfg. Co. (Plain, Universal & Lincoln
Pattern), Linus & Woodward, Milwaukee,
Wis.

Le Blond, R. K. Machine Tool Co. (Plain &
Universal), 4609 Easton av, Cincinnati, O.
McCabe, J. J. (Plain & Universal), 30 Church,
New York
Mitts & Merrill (Keyseat), Saginaw, Mich.
Newton Machine Tool Works (Horizontal, Verti-
cal, Universal & Slab), 2347 Vine, Phila.,
Pa.
Niles-Bement-Pond Co. (Horizontal, Plain, Ver-
tical & Universal), 111 B'way, New York
Oesterlein Machine Co. (Plain & Universal),
2850 Spring Grove av, Cincinnati, O.
Pratt & Whitney Co. (Horizontal & Vertical),
Hartford, Conn.

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index &
branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Quincy-Manchester-Sargent Co., Old Colony
bldg, Chicago, Ill., & 90 West, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Philadelphia, Pa.

SHUSTER, F. B. CO. (Double End &
Double Head for Butts & Rounding Both
Ends of Wire), New Haven, Conn. (See adv.
index, end of book)

Stark Tool Co., Waltham, Mass.
STRONG, CARLISLE & HAMMOND
Co., 336 Frankfort av, N W, Cleveland, O.
(See adv. index, end of book)

Sutton, C. E. Co. (Plain), Toledo, O.
Thnrston Mfg. Co. (Jewelers'), Providence,
R. I.
Tindel-Morris Co. (Crankshaft), Eddystone, Pa.
& Ellwood City, Pa.
Underwood, H. B. & Co. (Portable), 1025 Hamil-
ton, Phila., Pa.
Waltham Watch Tool Co. (Van Norman Du-
plex Universal & Bench), Springfield, Mass.
Warner & Swasey Co. (Valve), Cleveland, O.
Wickes Bros. (Heavy), Saginaw, Mich.

Milling, Drilling & Tapping Machines
(Radiator Loop)

Cincinnati-Bickford Tool Co., Cincinnati, O.
Needham, A. W., 110 E. 43d, New York.
Niles-Bement-Pond Co., 111 B'way, New York

Milling Machines (Bench)

American Watch Tool Co., Waltham, Mass.
Burke Machinery Co. (also with Power Feed),
Cleveland, O.
Chicago Machine Tool Co., Chicago, Ill.
Hardinge Bros. ("Cataract"), 1034 Lincoln av,
Chicago, Ill.
Hartford Machine Screw Co., Hartford, Conn.
Pratt & Whitney Co., Hartford, Conn.
Rivett Lathe Mfg. Co., Brighton, Boston, Mass.
Sloan & Chace Mfg. Co., Newark, N. J.
STARK TOOL CO. ("Stark"), Walth-
am, Mass. (See adv. index, end of book)
Waltham Watch Tool Co., Springfield, Mass.

Milling Machines (Double Head)

Beaman & Smith Co., Providence, R. I.
Epsen-Lucas Machine Works, Phila., Pa.
Fox Machine Co., Grand Rapids, Mich.
Garvin Machine Co., Spring & Varick, New York
Newton Machine Tool Works, Phila., Pa.
Owen Machine Tool Co., Springfield, O.
Pratt & Whitney Co., Hartford, Conn.

Milling Machines (Hand)

Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Chicago Machine Tool Co., Chicago, Ill.
Dalin Bros., Rockford, Ill.
Fox Machine Co., Grand Rapids, Mich.
Garvin Machine Co., Spring & Varick, New
York
Morton Mfg. Co., Muskegon Heights, Mich.
Pratt & Whitney Co., Hartford, Conn.
Whitney Mfg. Co. (Hand & Weight, Feed &
Friction Tapping Device), Hartford, Conn.

Milling Machines (Lincoln)

Becker Milling Machine Co., Hyde Park, Mass.
Carter & Hakes Machine Co., Winsted, Conn.
Chicago Machine Tool Co., Chicago, Ill.
Cook, Asa S. Co. ("Colt" Pattern), 80 Huys-
lope av, Hartford, Conn.
Garvin Machine Co., Spring & Varick, New York
Hendley Machine Co. (and Double Head Lin-
coln), Torrington, Conn.
Kemp Smith Mfg. Co., Milwaukee, Wis.

Milling Machines (Manufacturing)

Kearney & Trecker ("Milwaukee" for Heavy
Duty), 59th & National av, Milwaukee, Wis.

**Milling Machines (Plain Column
Type)**

Aurora Tool Works (Horizontal Spindle), Prov-
idence, R. I.
Beaman & Smith Co. (Horizontal Spindle),
Providence, R. I.
Brown & Sharpe Mfg. Co. (Horizontal Spindle),
Providence, R. I.
Cincinnati Milling Machine Co. (Horizontal
Spindle), Cincinnati, O.
Fox Machine Co. (Horizontal Spindle), Grand
Rapids, Mich.
Garvin Machine Co. (Horizontal Spindle), Spring
& Varick, New York
Kearney & Trecker (Horizontal Spindle), Mil-
waukee, Wis.
Kemp Smith Mfg. Co. (Horizontal Spindle), Mil-
waukee, Wis.
Le Blond, R. K. Machine Tool Co. (Horizontal
Spindle), Cincinnati, O.
Oesterlein Machine Co. (Horizontal Spindle),
Cincinnati, O.
Owen Machine Tool Co. (Horizontal Spindle),
Springfield, O.
Sellers, Wm. & Co. (Horizontal Spindle), 1600
Hamilton, Phila., Pa.
Sutton, C. E. Co. (Horizontal Spindle), Toledo,
Ohio

Milling Machines (Planer Type)

Beaman & Smith Co. (Vertical & Horizontal
Spindles), Providence, R. I.
Becker Milling Machine Co. (Horizontal &
Vertical Spindle), Hyde Park, Mass.
BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)
Burr, John T. & Sons (Horizontal & Vertical
Spindles), Brooklyn, N. Y.
Epsen-Lucas Machine Works (Slab Type),
Phila., Pa.
Ingersoll Milling Machine Co. (Vertical & Hori-
zontal Spindles), Rockford, Ill.
Newton Machine Tool Works (Vertical & Hori-
zontal Spindles), Phila., Pa.
Niles-Bement-Pond Co. (Vertical & Horizontal
Spindles), 111 B'way, New York
Pratt & Whitney Co. (Horizontal & Vertical
Spindles), Hartford, Conn.
Sellers, Wm. & Co. (Vertical & Horizontal
Spindles), 1600 Hamilton, Phila., Pa.

Milling Machines (Universal)

Aurora Tool Works, Aurora, Ind.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
FOOTE BROS. GEAR & MACHINE
Co. ("James Foote"), 44-50 N Carpenter,
Chicago, Ill. (See adv. index, end of book)
Garvin Machine Co., Spring & Varic, New York
Hendy Machine Co., Torrington, Conn.
Kearney & Trecker, Milwaukee, Wis.
Kemp Smith Mfg. Co., Milwaukee, Wis.

Le Blond, R. K. Machine Tool Co., Cincinnati, Ohio
 Newton Machine Tool Works, Phila., Pa.
 Oesterlein Machine Co., Cincinnati, O.
 Owen Machine Tool Co., Springfield, O.
STARK TOOL CO. ("Stark," Pinion
& Wheel Cutter Combined), Waltham,
Mass. (See adv. index, end of book)
 Waltham Watch Tool Co., Springfield, Mass.

Milling Machines (Valve)

American Tool & Machine Co., 109 Beach,
 Boston, Mass.

Milling Machines (Vertical Spindle, Column Type)

Beaman & Smith Co. (Three Spindle), Providence, R. I.
 Becker Milling Machine Co., Hyde Park, Mass.
BLISS, E. W. CO., 19 Adams, Brooklyn,
N. Y. (See adv. index, end of book)
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Clough, R. M., Tolland, Conn.
 Garvin Machine Co., Spring & Varick, New York
 Hibbard, Wm. H. Mfg. Co., 79 Washington,
 Brooklyn, N. Y.
 Ingersoll Milling Machine Co., Rockford, Ill.
 Johnson, Israel H., Jr. Co., Phila., Pa.
 Kearney & Trecker, Milwaukee, Wis.
 Newton Machine Tool Works, Phila., Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.

Milling Machines (Worm)

Cleveland Automatic Machine Co. (Automatic),
 Cleveland, O.

Mine Timber Framing Machines

Denver Engineering Works Co., Denver, Colo.
 Hendy, Joshua Iron Works, San Francisco, Cal.

Mine Ventilating Machinery

(See Fans, Mine Ventilating)

Mining Machinery

(See also Coal Mining Machinery)

ABENDROTH & ROOT MFG. CO.,
 Newburgh, N. Y. (See adv. index & branch
 offices, end of book)
 Albany Iron Works, Albany, Ore.
 Allentown Rolling Mills, Allentown, Pa.
ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
 American Concentrator Co., Basic City, Va.
 American Machine & Mfg. Co., Cleveland, O.
 Arizona & Sonora Mfg. Co. (Sectional), Nogales,
 Ashland Iron Works, Ashland, Ore. Ariz.
 Atlanta Machine Works (Gold), Atlanta, Ga.
 Aurora Foundry & Machine Works (Complete
 Line), Aurora, Mo.
 Austin Mfg. Co. (Crushers'), Manhattan bldg.,
 Chicago, Ill.; Works, Harvey, Ill.
 Bacon, Earle O., Havemeyer bldg. New York
 Barker, Samuel G. & Son, Scranton, Pa.
 Birdsboro Steel Foundry & Machine Co., Birds-
 boro, Pa.

BRADLEY PULVERIZER CO. ("Grif-
fin Mill"), 92 State, Boston, Mass.
 Caird Engineering Works, Helena, Mont.
 Chalmers & Williams, Commercial Nat'l Bank
 bldg, Chicago, Ill.
 Chicago Pneumatic Tool Co., Fisher bldg, Chi-
 cago, Ill.
 Colorado Iron Works Co., Denver, Colo.
 Curren, Cyrus & Sons, Newark, N. J.
 Danville Foundry & Machine Co., Danville, Ill.
 Davis, F. M. Iron Works Co., Denver, Colo.
 Denver Engineering Works Co. (Electric, etc.),
 Blake c 30th, Denver, Colo.
 Du Bois Iron Works, Du Bois, Pa.
 Erie City Iron Works, Erie, Pa.
FAIRBANKS, MORSE & CO., Wabash
av & Eldredge pl., Chicago, Ill. (See adv.
index & branch offices, end of book)
 Farrel Foundry & Machine Co., Ansonia, Conn.
FAWCUS MACHINE CO., 2820 Small-
man, Pittsburg, Pa. (See adv. index, end
of book)

Fulton Engine Works, Los Angeles, Cal.
 Galena Iron Works Co., Galena, Ill.
 Globe Iron Works (Inc.), Stockton, Cal.
 Golden State & Miners Iron Works, San Fran-
 cisco, Cal.
 Goodman Mfg. Co. (Electric), 48th pl & Hal-
 sted, Chicago, Ill.
 Great Lakes Engineering Works, Detroit, Mich.
 Hammond Mfg. Co., Portland, Ore.
 Harron, Rickard & McCone (Inc.), San Francis-
 co, Cal.
 Hendrie & Bolthoff Mfg. & Supply Co., Denver,
 Colo.
 Hendy, Joshua Machine Works, San Francisco,
 Cal.

Henshaw-Buckley & Co., San Francisco, Cal.
 Herzler & Henninger, Belleville, Ill.
INGERSOLL-RAND CO., 11 B'way,
 New York. (See adv. index & branch offices,
 end of book)
 Interstate Engineering Co., Bedford, O.
 Jackson, Byron Machine Works, 411 Market,
 San Francisco, Cal.
 Jackson & Church Co. (Coal, etc.), Saginaw,
 Mich.

JEFFREY MFG. CO. (Coal, etc.), Col-
umbus, Oo. (See adv. index & branch off-
ices, end of book)

KILGORE-PETELER CO., Minneap-
olis, Minn. (See adv. index, end of book)
 Krogh Mfg. Co., San Francisco, Cal.
 Krom Machine Works, 170 B'way, New York;
 Works: Jersey City, N. J.
 Lake Shore Engine Works (Coal, etc.), Mar-
 quette, Mich.

Leyner, J. Geo. Engineering Works Co., Little-
 ton, Colo.

LIDGERWOOD MFG. CO., 96 Liberty,
 New York. (See adv. index & branch offices,
 end of book)

Llewellyn Iron Works, Los Angeles, Cal.
 McFarlane, Peter & Sons Iron Works Co., Den-
 ver, Colo.

Marine Iron Co., Bay City, Mich.
 Marinette Iron Works Mfg. Co., Marinette,
 Wis.

Mecklenburg Iron Works (Gold, etc.), Charlotte,
 N. C.

Merralls Mill Co., San Francisco, Cal.
 Mill & Smelter Engineering Co., 114 Liberty,
 New York

Mine & Smelter Supply Co., Denver, Col.
 Montgomery, J. H. Machinery Co. (New & Sec-
 ond Hand), 1220 Curtis, Denver, Col.

Morgan-Gardner Electric Co. (Coal, etc.), 2640
 Shields av, Chicago, Ill.
 Morris County Machine & Iron Co., Dover, N. J.
 Mullen, John & Son (Coal, etc.), Shamokin, Pa.
 National Iron Works, Spokane, Wash.
 Northwestern Iron Works, Seattle, Wash.

ORE DRESSING MACHINERY CO.
 (Complete Concentrating Plants), 114-118
 Liberty, New York

Ottumwa Iron Works (Coal, Gold & Silver),
 Ottumwa, Ia.

Pass City Foundry & Machine Co., El Paso,
 Phoenix Iron Works, Portland, Ore.
 Portage Lake Foundry & Machinery Co., Han-
 cock, Mich.

Portland Iron Works, Portland, Ore.
 Power & Mining Machinery Co., Cudahy, Wis.

Prescott Co., Menominee, Mich.
 Prescott, Fred. M. Steam Pump Co., Millwan-
 kee, Wis.

Prox. Frank Co., Terre Haute, Ind.
 Puget Sound Iron & Steel Works, Tacoma,
 Wash.

Raymond Bros. Impact Pulverizer Co., 143
 Laflin, Chicago, Ill.

Rlsdon Iron & Locomotive Works, San Fran-
 cisco, Cal.

Riverside Iron Works Co., Kansas City, Kan.
 Robins Conveying Belt Co., Passaic, N. J.
 Rogers, Jno. M. Boat Gauge & Drill Co., Glou-
 cester City, N. J.

Salt Lake Engineering Works, Salt Lake City,
 Utah

SCHULE, F. H. CO. (Wet & Dry Con-
centrating Plants), 114-118 Liberty, New
York. (See adv. index, end of book)

Scottsdale Foundry & Mach. Co., Scottsdale, Pa.
 Silver Bros. Iron Works Co., Salt Lake City,
 Utah

Silver, Hynum A., Fdry. & Machine Co., Salt
 Lake City, Utah

Stciger & Kerr Stone & Foundry Co., San
 Francisco, Cal.

Stroh, W. H. (Est. of) (Coal, etc.), Mauch
 Chunk, Pa.

STROUD, E. H. & CO. (Pulverizers),
 36 La Salle, Chicago, Ill. (See adv. index,
 end of book)

Sturtevant Mill Co., Clayton c Park, Dor.,
 Boston, Mass.

Sullivan Machinery Co., Railway Exch bldg.,
 Chicago, Ill.

Suppes Forge & Foundry Co., Johnstown, Pa.
 Tamaqua Mfg. Co., Tamaqua, Pa.

Traylor Engineering Co., Allentown, Pa.
 Union Foundry & Machine Co., Pittsburg, Pa.
 Union Iron Works Co. (Gold, Silver, etc.), San
 Francisco, Cal.

Union Iron Works (Inc.), Spokane, Wash.
 United Iron Works, Oakland, Cal.
 United Iron Works Co., Joplin, Mo.

Urie-Snyder Iron Works Co., Kansas City, Mo.
 Utah Mining Machinery & Supply Co. (Callow
 Settling Tanks, Traveling Belt Screens,
 etc.), Salt Lake City, Utah

Vulcan Iron Works, San Francisco, Cal.
 Vulcan Iron Works, Wilkes-Barre, Pa.

Vulcan Iron Works Co., Seattle, Wash.
 Webb City & Carthage Foundry & Machine
 Works, Webb City, Mo.

Wellman-Seaver-Morgan Co. (All Kinds), Cleve-
 land, O.

Whitcomb, Geo. D. Co., Rochelle, Ill.
 Williamette Iron & Steel Works, Portland, Ore.
 Wisconsin Engine Co., Corliss, Wis.

HYDRAULIC MINING SUPPLIES



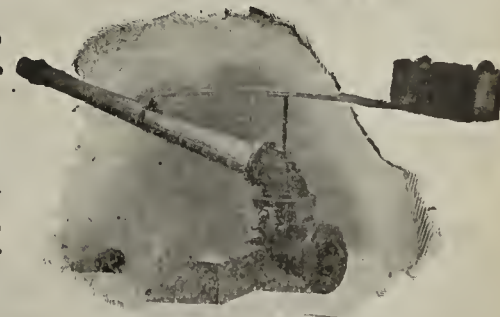
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Mining Machinery (Electric)

(See Coal Mining Machinery, Electric)

Mining Machinery (Hydraulic)**ABENDROTH & ROOT MFG. CO.**, Newburgh, N. Y. (See adv. index & branch offices, end of book)Hendy, Joshua Iron Works, San Francisco, Cal.
Prescott, Fred M. Steam Pump Co., West Allis, Wis.**Mining Machines**

(See Coal Cutting Machines)

Mining & Crushing Machinery (Portable)**ALLIS-CHALMERS CO.**, Milwaukee, Wis. (See adv. index & branch offices, end of book)**Mining Machinery****BLISS, E. W. CO.**, 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)**Mitre Blanking Machines****CANTON FOUNDRY & MACHINE CO.**, Canton, O. (See adv. index, end of book)**Mitre Cutting Machines**

Loy & Mawrath Co. (Iron Metal), Newark, N. J.

Mitre Sawing & Clamping Machines

Sheldon, E. H. & Co., 84 N May, Chicago, Ill.

Mitreing MachinesAmerican Woodworking Machinery Co., Rochester, N. Y.; West St. Bldg., New York
Beach, H. W., Montrose, Pa.Bentel & Margedant Co. (Spoke), Hamilton, O.
Brandou Machine Co. (Mitreing Machine & Vice Combined), Akron, O.Chandler & Price Co. (For Printers' Brass or Metal Rule, etc.), Cleveland, O.
Eureka Electric Mitre Machine Co. (Electric), Bloomington, Ill.Fay, J. A. & Egan Co., Cincinnati, O.
Fox Machine Co., Grand Rapids, Mich.Grammes, L. F. & Sons (Mitre Saws), Allentown, Pa.
Hoe, R. & Co., 504 Grand, N. Y. town, Pa.
Kirk Grindstone Co., Cincinnati, O.Marsh, H. C., Rockford, Ill.
Power, L. & Co. (Mitre Saws), 20 S 23d Phila., Pa.

Seymour & Whitlock (Foot & Hand Power), Newark, N. J.

Smith, H. B. Machine Co., Smithville, N. J.
Spilker, B. J. Mfg. Co., Cincinnati, O.

Walter's, Wm. P. Sons (And Vice Combined), 1233 Market, Phila., Pa.

Wesel, F. Mfg. Co., 10 Spruce, New York

Mitreing Machines (Paper, Cloth & Leather)**KNOWLTON, M. D. CO.**, Rochester, N. Y. (See adv. index & branch offices, end of book)**Mixing Machinery**

(See Concrete Mixers; also Paint Grinding & Mixing Machines; also Mixers, Various Kinds)

Moistening Machines (Paper, Cloth, Leather, Etc.)**KNOWLTON, M. D. CO.**, Rochester, N. Y. (See adv. index & branch offices, end of book)**Molding Machines (Foundry)**Adams Company ("The Farwell Universal Automatic & Multiple"), Dubuque, Iowa
Arcade Mfg. Co. ("Arcade," "Modern," for Small Castings; also "Norcross," Jolt Ramming Machines), Freeport, Ill.Berkshire Mfg. Co. ("Berkshire" Automatic), Cleveland, O.
Bryan Vacuum Moulding Machine Co. (For Bench Moulding Only), Buffalo, N. Y.

Bryant, O. Sons & Co. 1453 Niagara, Buffalo, N. Y.

Buck's, A. Sons Co. (Gravity Moulder), Elizabethtown, Pa.

Buffalo Foundry Supply Co., 339 Babcock, Buffalo, N. Y.

Delano, E. A. Co. (for Pulley Molding, etc.), 150 E. Huron, Chicago, Ill.

Demmick, Wm. & Bros. (Vibrating), Kewanee, Ill.
Griffith Mfg. Co., Beloit, Wis.Hanua Engineering Works ("Rathbone"), 820 Elston av., Chicago, Ill.
Herman Pneumatic Machine Co. ("Herman" Pneumatic Jarring), Zellenople, Pa.**HILL & GRIFFITH CO.**, Cincinnati, O. (See adv. index, end of book)

Killing, E. Moulding Machine Works ("Killing"), Davenport, Ia.

McCormack, J. S. Co., 25th & A. V. ry., Pittsburgh, Pa.

Mitchell-Parks Mfg. Co. (Gravity Molder), St. Louis, Mo.

Mumford, E. H. Co. (Power Roll-Over & Pneumatic Vibrating), 1223 Spring, Phila., Pa.

Norcross Moulding Machine Co. ("Norcross" Jarring), Terre Haute, Ind.

Oregon Foundry & Machine Co. ("Stratton"), Oregon, Ill.

OSBORN MFG. CO. ("Osborn"), 5401 Hamilton av., N. E., Cleveland, O. (See adv. index, end of book)

Paxson, J. W. Co., 1021 N Delaware av., Phila., Pa.

Pridmore, Henry E., 918 S Rockwell, Chicago, Ill.

Racine Engine & Machine Co. ("Racine"), Racine, Wis.

Reynolds & Co., New Haven, Conn.
Richmond Foundry & Mfg. Co., Richmond, Va.

Rowlands Machine Co., Racine, Wis.

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd., N. W., Cleveland, O. (See adv. index, end of book)

Syracuse Malleable Iron Works ("Burns Economic" & "Blake Roll-Over"), Syracuse, N. Y.

Tabor Mfg. Co., 18th & Hamilton, Phila., Pa.

Taylor-Wilson Mfg. Co. (For Gears, etc.), McKees Rocks, Pa.

Turnbull, R. E., 246 W 61st, Chicago, Ill.

Turver Machine Co. ("McCanna," for Brass & Iron), 2049 N 2d, Phila., Pa.

Van Tine Molding Machine Co., Elizabeth, N. J.

Webb, J. F. Mfg. Co. (Portable Pneumatic), Davenport, Ia.

Webster & Perks Tool Co., Springfield, O.

Molding Sander Machines

Austin & Eddy ("Pioneer"), 117 Broad, Boston, Mass.

Yerkes & Finan Doow Washing Machine Co., St. Louis, Mo.

Monitor Machines

Pratt & Whitney Co. (Made Only to Order), Hartford, Conn.

Mortar Mixing Machinery

(See Concrete Mixers)

Mortising Machines

(Mortising Machines are classified under the Kind Descriptive Thereof)

Mosaic Cutting Machinery

Patch, F. R. Mfg. Co. (For Cutting Mosaic Blocks), Rutland, Vt.

Roussel, Albert C., 524 W 50th, New York

Mosaic & Tile Floor Polishing Machines

Patch, F. R. Mfg. Co., Rutland, Vt.

Moving Picture Machines

American Moving Picture Machine Co., 102 Beekman, New York

Chicago Projecting Co., 225 Dearborn, Chicago, Ill.

Kleine Optical Co., 52 State, Chicago, Ill.

Phonograph Co. of America (For the Home), 56 Bauk, New York

Multigraph Machines

American Multigraph Sales Co. ("The Gameter Multigraph," for Printing Office Forms, Fac-Simile Letters, etc.), Case & Kelly, Cleveland, O.

Muscle Testing & Lifting Machines

Rosenfield Mfg. Co., 585 Hudson, New York

Music String Machinery

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Nail Mill MachineryFord & Donnelly, Kokomo, Ind.
Kesty, Chas. C., Sunbury, Pa.
Kilby Mfg. Co. (Wire, etc.), Cleveland, O.
Miller's, H. J. Sons (Wire), Bridgewater, Mass.
National Machinery Co. (Wire), Tiffin, O.
Perkins, Henry Co. (Wire), Bridgewater, Mass.
Turner, Vaughn & Taylor Co., Cudahy Falls, Ohio
Walton & Mackee, Kokomo, Ind.**Nail Oxidizing Machines**

Marquette, John N., 509 S Eden, Baltimore, Md.

Nail Pulling Machines

(See Pullers, Nail)

Nailing Machines

(See Box Nailing Machines; also Hoop Nailing Machines)

Name Plate Embossing MachinesRoovers Mfg. Co., 170 B'way, New York
Schwerdtle Stamp Co., 41 Cannon, Bridgeport, Conn.

Simplex Mfg. Co., 90 West, New York

Needle Forming Machines**SHUSTER, F. B. CO. (Lingoe & Jacquard, Automatic)**, New Haven, Conn. (See adv. index, end of book)**Needle Machinery (Sewing Machine)**

Langeller Mfg. Co., 67 Clifford, Providence, R. I.

Netting Machines

Fowler Net & Twine Co., 107 S. 2d, Phila., Pa.

Nipple Threading MachinesLandes Machine Co., Waynesboro, Pa.
MURCHEY MACHINE & TOOL CO. ("Murchey," Automatic), 52 Porter c 4th av., Detroit, Mich. (See adv. index & branch offices, end of book)**Notching Machines**

American Can Co., Merchants' Loan & Trust Bldg., Chicago, Ill.

BLISS, E. W. CO. (Armature), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Leffler, Chas. A. & Co. (Also Bench Notching Machinery for Pierced Tin Ware, Can Boxes, etc.), 63 Clymer, Brooklyn, N. Y.

Long & Allstatter Co. (Disc Armature with Turret Tools), Hamilton, O.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.

Nougat Cutting Machines

Rittenhouse, Frank, Norristown, Pa.

Numbering Machines

American Numbering Machine Co., 291 Essex, Brooklyn, N. Y.

AMERICAN RAILWAY SUPPLY CO., 26 Park pl., New York. (See adv. index, end of book)

Bates Machine Co. ("Bates" Automatic), 696 Jamaica av., Brooklyn, N. Y.

Bates Mfg. Co., Orange, N. J.

Butler, A. G., 284 Pearl, New York

Cushman & Denison Mfg. Co. ("Reliance"), 240 W 23d, New York

Force, W. A. & Co., 59 Beekman, New York

Haynes & Co., Providence, R. I.

Matthews, Jas. H. & Co., 306 Wood, Pittsburgh, Pa.

Peerless Stamp & Stencil Co., Muncie, Ind.

Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.

Stewart & Hollhand ("Premier"), 201 B'way, New York

Numbering & Paging Machines

Hoole Machine & Engraving Works ("Champion"), 29 Prospect, Brooklyn, N. Y.

Latham Machinery Co., 199 S Canal, Chicago, Ill.

Sheridan, T. W. & C. B. Co., 56 Duane, New York

Nut Blanking Machines

National Machinery Co., Tiffin, O.
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

Nut Burring Machines

National Machinery Co., Tiffin, O.

Nut Facing Machines

Acme Machinery Co., Cleveland, O.
Detrick & Harvey Machine Co., 508 E. Preston,
Baltimore, Md.
National Machinery Co., Tiffin, O.
Newton Machine Tool Works (Inc.), 2347 Vine,
Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Victor Tool Co. ("Victor"), Waynesboro, Pa.

Nut Finishing Machines

Pawtucket Mfg. Co., Pawtucket, R. I.

Nut Machinery

(See Bolt & Nut Machinery)

Nut Machines (Hot Pressed)

Acme Machinery Co. (Automatic), Cleveland, O.
AJAX MFG. CO. (Automatic), 3830
Lakeside, N. E., Cleveland, O. (See adv.
index, end of book)
National Machinery Co., Tiffin, O.

Nut Milling Machines

NATIONAL-ACME MFG. CO., Cleve-
land, O. (See adv. index, end of book)
National Machinery Co., Tiffin, O.
Newton Machine Tool Works Co. (Inc.), 2347
Vine, Phila., Pa.

Nut Tapping Machines

Acme Machinery Co. (Automatic), Cleveland, O.
Automatic Machine Co., Bridgeport, Conn.
Brown, H. B. Co., East Hampton, Conn.
Detrick & Harvey Machine Co., Baltimore, Md.
Eilers, H. P. Mfg. Co., Cleveland, O.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Landis Machine Co., Waynesboro, Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Norwalk Mfg. Co., Norwalk, O.
Pawtucket Mfg. Co. (2, 3, 4, 6 & 9 Spindles),
Pawtucket, R. I.)
Pneumatic Nut Machinery Co. (Automatic Air-
Controlled), Cleveland, O.
Putnam Machine Co., Finchburg, Mass.
Reece, E. F. Co., Greenfield, Mass.
Reed, Francis Co. (Upright, 2 to 4 Spindles,
for 1/2-in. Nuts and under), Worcester, Mass.
Webster & Perks Tool Co., Springfield, O.
WELLS BROS. CO., Greenfield, Mass.
(See adv. index, end of book)

**Nut Tapping Machines (Multiple
Spindle)**

Acme Machinery Co., Cleveland, O.
Detrick & Harvey Machine Co., Baltimore, Md.
Pawtucket Mfg. Co., Pawtucket, R. I.
Reed, Frances Co., Worcester, Mass.

Oat Meal Machinery

BARTLETT, C. O. & SNOW CO.,
French st., Cleveland, O. (See adv. index,
end of book)
Invincible Grain Cleaner Co. (Cleaning, Grad-
ing & Packing), Silver Creek, N. Y.
SCHULE, F. H. CO., 114-118 Liberty,
New York. (See adv. index, end of book)
Willamette Iron & Steel Works, Portland
Ore.

Oats & Rice Clipping Machines

Huntley Mfg. Co. ("Monitor" Dustless), Silver
Creek, N. Y.

Oil Cake Packing Machines

French Oil Mill Machinery Co., Piqua, O.

Oil Cake Trimming Machines

French Oil Mill Machinery Co., Piqua, O.

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Currler, Cyrus & Sons, Newark, N. J.
Dienelt & Eisenhardt, 1308 N Howard, Phila.,
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chines), 15th & Lehigh av., Phila., Pa.
Waldron, Jno. Co., New Brunswick, N. J.

Oil Mill Machinery

Atlanta Utility Works, Atlanta, Ga.
Burrell Mfg. Co., 251 S Jefferson, Chicago, Ill.
Bushnell, G. H. Press Co., Thompsonville,
Conn.
Callahan, W. P. & Co., 901 E. 3d, Dayton, O.
Chickasaw Iron Works, Memphis, Tenn.
French Oil Mill Machinery Co. (Oil Cake Trim-
ming & Packing), Piqua, O.
Hardie Tynes Mfg. Co., Birmingham, Ala.
Lombard Iron Works & Supply Co., Augusta, Ga.
PLATT IRON WORKS CO. (Cotton,
Linsseed, etc.), Dayton, O. (See adv. index
& branch offices, end of book)
SCHULE, F. H. CO., 114-118 Liberty,
New York. (See adv. index, end of book)
SPROUT, WALDRON & CO., Muncy,
Pa. (See adv. index, end of book)

Oil Well Machinery

(See Well Drilling Machinery)

Oil & Waste Saving Machines

Oil & Waste Saving Machine Co., Real Estate
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Redfield, Rob't S. & Co., 26 Cortlandt, New
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Brooman, W. F. & Son, Painesville, O.

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(See Concentrators, Ore)

Ore Dressing Machinery

ORE DRESSING MACHINERY CO.,
114-118 Liberty, New York
SCHULE, F. H. CO., 114-118 Liberty,
New York. (See adv. index, end of book)

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(See Coal & Ore Handling Machinery)

Ore Reduction Machinery

Wellman-Seaver-Morgan Co., Cleveland, O.

Ore Washing Machinery

American Concentrator Co. (For Iron Ore, etc.),
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Comstock, Geo. S., Mechanicsburg Pa.
McLanahan Stone Machine Co., Hollidaysburg,
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Mine & Smelter Supply Co., Denver, Colo.
Scalfe Foundry & Machine Co., Pittsburg, Pa.
Tamaqua Mfg. Co., Tamaqua, Pa.

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Renneburg, E. & Sons, Baltimore, Md.
SPRAGUE CANNING MACHINERY
Co., 5 Wabash av., Chicago, Ill. (See adv.
index, end of book)

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lyn, N. Y. (See adv. index, end of book)

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index & branch offices, end of book)
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cago, Ill.
Redfield, Rob't S. & Co., 26 Cortlandt, New
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Riverside Foundry & Machine Works, River-
side, Cal.
Riverside Iron Works, Kansas City, Kan.
Weir & Craig Mfg. Co., 2439 Wallace, Chicago,
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Packing Machines

(See also Bag Filling Machines)

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Campbell, P. F. ("Richmond" Flour), 55 Laurel
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Eureka Bark Mill Co. (Tan Bark), Lancaster,
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Girard Machine Works (Inc.), 2616 Girard av.,
Phila., Pa.
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etc.), Silver Creek, N. Y.
Invincible Grain Cleaner Co., Silver Creek, N. Y.
Nordyke & Marmon Co. (Bran, Flour, Sack,
etc.), 1101 W. Morris, Indianapolis, Ind.
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son av., Brooklyn, N. Y.
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Wayne, N. J.

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Goodspeed Machine Co., Winchendon, Mass.
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end of book)
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Holmes & Blanchard Co., Boston, Mass.
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cago, Ill.
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lyn, N. Y.
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Pa. (See adv. index, end of book)
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Dietz Machine Works, 126 Fountain, Phila., Pa.

Hobbs Mfg. Co., Worcester, Mass.

Fales, L. F. (Paper Slitting), Walpole, Mass.

Jacques, Jno. & Son (Slitting Only), Worces-
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Kidder Press Co., Dover, N. H.

KNOWLTON, M. D. CO., Rochester,
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Moore & White Co., 15th & Lehigh av., Phila-
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Noble & Wood Machine Co., Hoosick Falls,
N. Y.

Penney, J. W. & Sons Co., Mechanics' Falls, Me.
Perkins, B. F. & Son, Holyoke, Mass.
Portland Co., Portland, Me.
Portland Iron Works (Inc.), Portland, Oregon
Pusey & Jones Co., Wilmington, Del.
Rice-Barton & Fales Machine & Iron Co., Wor-
cester, Mass.

Sandy Hill Iron & Brass Works, Sandy Hill,
Scott, Olin, Pennigton, Vt.
Seybold Machine Co., Dayton, O.

Shartle Bros. Machine Co., Middletown, Ohio.
Smith & Winchester Mfg. Co., South Wind-
ham, Conn.

Stillman, L. H., Brattleboro, Vt.
Taylor Bros. & Co. (Englue Bars & Plates),
Fulton, N. Y.
Thompson Mfg. Co., Lancaster, N. H.
Ticonderoga Machine Works, Ticonderoga, N. Y.
Towuseud Furnace & Machine Shop Co., Al-
bany, N. Y.

Turners Falls Machine Co., Turners Falls,
Mass.
Union Iron Works, Bangor, Me.
Union Machine Co., Fitchburg, Mass.
Valley Iron Works Co., Appleton, Wis.

**WERNER & PFLEIDERER (Paper
Pulp Machines, Rapid Dissolvers, etc.),**
Saginaw, Mich. (See adv. index, end of book)

Wetherill, Robert & Co., Chester, Pa.
Wheelwright Filler & Mfg. Co., Providence,
R. I.
Windsor Locks Machine Co., Windsor Locks,
Conn.

Papering Machines

KNOWLTON, M. D. CO. (Paper Box),
Rochester, N. Y. (See adv. index, end of book)

Paraffine Coating Machines

BECK, CHAS. PAPER CO. (LTD.), 607
Chestnut, Phila., Pa. (See adv. index, end
of book)

Paraffining Machines

KNOWLTON, M. D. CO., Rochester,
N. Y. (See adv. index & branch offices,
end of book)
Waldron, Jno. Co., New Brunswick, N. J.

Paste Mixing Machines

Acton, John, 118 John, Brooklyn, N. Y.
Day, J. H. Co., Cincinnati, O.
KNOWLTON, M. D. CO., Rochester,
N. Y. (See adv. index & branch offices,
end of book)
Ross, Chas. & Son Co., 148 Classon av., Brook-
lyn, N. Y.

Pasteurizing Machines

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
Barry-Wehmiller Machy. Co. ("National"), 2042
Walnut, St. Louis, Mo.
Mangus, A. Sons & Co. ("Ruff's"), 244 E Ran-
dolph, Chicago, Ill.
Miller Pasteurizing Machine Co. ("Miller"),
Canton, O.
Miller-Tyson Co., Canton, O.
Twentieth Century Machinery Co., Milwaukee,
Wis.

Pasting Machines (Paper, Cloth, Leather, Etc.)

KNOWLTON, M. D. CO., Rochester,
N. Y. (See adv. index & branch offices,
end of book)

Pattern Letter Plate Embossing Machines

(See Presses, Type Embossing)

Pattern Makers' Machinery

(See Lathes, Pattern Makers')

Pattern Shop Sawing Machines

Baker Bros., Toledo, O.
Hobbs Mfg. Co., Worcester, Mass.
Oliver Machinery Co. (Band Saws), Grand
Rapids, Mich.
West Side Iron Works (Band Sawing Ma-
chines), Grand Rapids, Mich.

Pea Cannery Machinery

SPRAGUE CANNING MACHINERY
Co., 5 Wabash av., Chicago, Ill. (See adv.
index, end of book)

Pea Harvesting Machinery

(See Harvesters, Bean & Pea)

Pea Hulling Machinery

Chisholm-Scott Co., Cadiz, O.

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Peach Pitting Machines

SPRAGUE CANNING MACHINERY
Co. (For Cannery), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Peanut Machinery

Ayers, J. R., Petersburg, Va.
Cardwell Machine Co. (Pickers & Cleaners, Shellers & Separators), Richmond, Va.
Hench & Dromgold Co., Inc., York, Pa.
Johnson & Field Mfg. Co., Racine, Wis.
Stratton-Bragg (Pickers, Cleaners, etc.), Petersburg, Va.
Stranb, A. W. & Co., Phila., Pa.

Peanut Roasting Machines

(See Coffee, Peanut & Cocoa Bean Roasting Machines)

Pearl Button Machinery & Tools

Holub-Dusha Co., 1799 1st av, New York
Northampton Emery Wheel Co., Leeds, Mass.
Skipp, Jas. & Son, Newark, N. J.

Peat Fuel Machinery

Commercial Artificial Fuel Co., Toledo, O.
Peutkoal Co., 30 Broad, New York
U. S. Peat Fuel Co., Ft. Dearborn bldg, Chicago, Ill.

Peeling Machines (Fruit & Vegetable)

(See Parers, Fruit & Vegetable)

Perforating Machines

Bates Machine Co., 696 Jamaica av, Brooklyn, N. Y.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Burton's, A. G. Son, 133 Clinton, Chicago, Ill.
Cross & Speirs Machine Co. (Sheet Metal), Waterbury, Conn.
Cummins, B. F. Co. ("Chicago" Hand, for Check, R. R. Ticket Dating, etc.), 1411 W Ravenswood Park, Chicago, Ill.
Dewes, A. Co., 243 Centre, New York
Latham Machinery Co. (For Paper, etc.), 199 S Canal, Chicago, Ill.
Long & Allstatter (Sheet Metal), Hamilton, O.
National Perforating Machine Co., Nat'l Life bldg., Kansas City, Mo.
NIAGARA MACHINE & TOOL WKS (For Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co. (For Metal), Waterbury, Conn.

Petroleum Can Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Pharmaceutical Machinery

Colton, Arthur, 184 Brush, Detroit, Mich.
Hall, Albert B., Indianapolis, Ind.
Remington Mfg. Co., Merchants' bldg, Phila., Pa.
Stokes, F. J. Machine Co. (Dryers, Still, Kettles, Mills, Emulsifiers, Tablet, Pill & Capsule Machinery, etc), 17th & Cambria, Phila., Pa.
WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)

Phosphate Mill Machinery

Balley-Lehby Co., Charleston, S. C.
Kehoe, Wm. & Sons, Savannah, Ga.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Walker & Elliott, Wilmington, Del.

Photo Engravers' Machinery

Boyle, Jno. & Sons, Paterson, N. J.

Photo Printing Machines

Rondinella, L. F. ("Star" Sun & Electric), Phila., Pa.

Photograph Card Beveling Machines

Dietz Machine Works, 126 Fountain, Phila., Pa.

Photograph Machines

Chicago Ferrottype Co. ("Wonder Cannon" & "Wonder Automatic" Photo Button), 7 Blue Island av, Chicago, Ill.
National Photograph Machine Co., 85 Beaver, New York

Piano Action Machinery

Erlandsen, Julius, 172 Centre, New York
Nilson, A. H. Machine Co., Bridgeport, Conn.
Prylbil, P. (Est. of), 512 W 41st, New York

Piano & Music String Machinery

Leffler, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Pick Eye Forging Machines

Birmingham Iron Foundry, Derby, Conn.

Picket Heading & Pointing Machines

Defiance Machine Works, Defiance, O.
Hall & Brown Woodworking Machine Co., 1917 N B'way, St. Louis, Mo.

Picture Frame Machinery

McFarlan & Spliker Mfg. Co., 1652 Dorman, Cincinnati, O.
Marsh, H. C. (and Picture Frame Vise, Combined), Rockford, Ill.
Shawver Company (Oval Cutter, "Springfield"), Springfield, O.

Pie Making Machines (Automatic)

Colborne Mfg. Co., 31 E Indiana, Chicago, Ill.

Pig Iron Casting Machines

American Casting Machine Co., Pittsburg, Pa.
Heyl & Patterson, Pittsburg, Pa.
Welmer Machine Works, Co., Lebanon, Pa.

Pile Driving Machinery

(See also Engines, Pile Driving)

AMERICAN HOIST & DERRICK CO.

St. Paul, Minn. (See adv. index & branch offices, end of book)
Bucyrus Co. (Railroad), S Milwaukee, Wis.
Byers, Jno. F. Machine Co., Ravenna, O.

CARLIN'S, THOS. SONS CO., 1610 River av (North Side), Pittsburg, Pa. (See adv. index, end of book)

Contractors' Plant Mfg. Co., Buffalo, N. Y.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

LIDGERWOOD MFG. CO., 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

MUNDY, J. S., 20 Prospect, Newark, N. J. (See adv. index and branch offices, end of book)

NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index, end of book)

SHAW, WILLIS CO., 171 La Salle, Chicago, Ill. (See adv. index, end of book)
Toledo Foundry & Machine Co., Toledo, O.
Vulcan Iron Works, 59 Milwaukee av, Chicago, Ill.

Pill Coating Machines

Colton, Arthur (Gelatin, etc.), Detroit, Mich.
Stokes, F. J. Machine Co., 17th & Cambria, Phila., Pa.

Pill Making Machines

(See also Tablet Machines)

Colton, Arthur (Automatic), Detroit, Mich.
Day, J. H. Co., 1144 Harrison av, Cincinnati, O.
Stokes, F. J. Machine Co., 17th & Cambria, Phila., Pa.

Pill & Tablet Counting Machinery

Weiscopef, L. ("Economic"), 20 Vesey, New York

Pin Drilling Machines

AJAX MFG. CO. (Automatic, Multiple Spindle), 3830 Lakeside, N E, Cleveland, O. (See adv. index, end of book)

Pin Machinery

(See Hook & Eye Machinery)

Pin Pointing Machinery

Baird Machine Co., Oakville, Conn.
Mannville, E. J. Machine Co., Waterbury, Conn.
Manville Bros. Co., Waterbury, Conn.

Pin Sticking Machines

Baird Machine Co., Oakville, Conn.

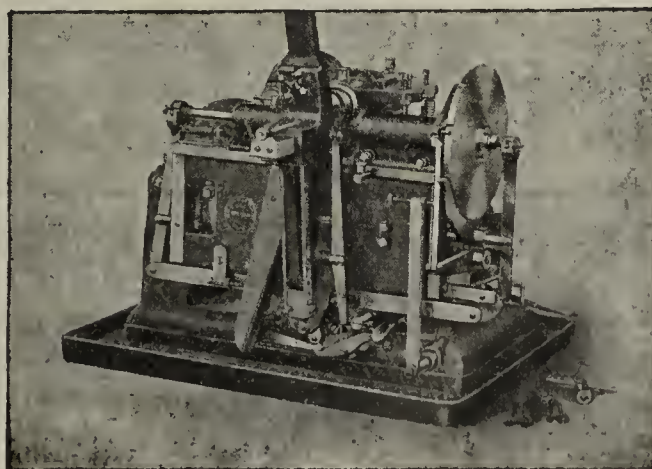
Pineapple Machinery

Mitchell, Jno. R. Co. (Graters, etc.), Baltimore, Md.
Lewis, E. J. (Peeling), Middleport, N. Y.
Sinclair-Scott Co., Baltimore, Md.
SPRAGUE CANNING MACHINERY Co. (For Cannery), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
Stevenson & Co., Baltimore, Md.
Zastrow, Geo. W. ("Zastrow"), Baltimore, Md.

Pinion Cutting Machines

(See also Gear Cutting Machines)

STARKE TOOL CO. (Automatic, Cuts Pinion 1-16 to 5-8), Waltham, Mass. (See adv. index, end of book)
WALTHAM MACHINE WORKS (Small Automatic), Waltham, Mass. (See adv. index, end of book)



Automatic Pinion Cutting Machines

Made in three sizes for watch, clock, meter and similar work; also for small gears, the largest size cutting up to 3 1-2 inches diameter.

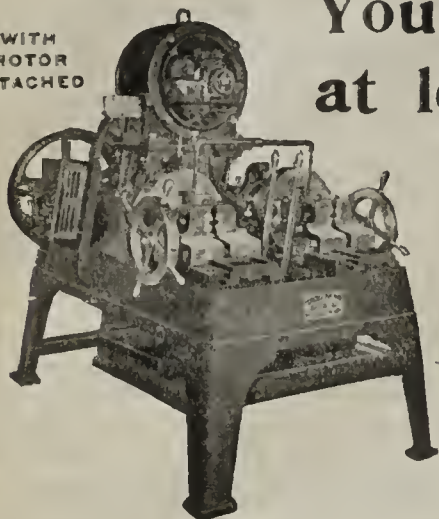
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Waltham, Mass.

You Can Reduce Pipe Threading Costs at least 300 Per Cent.

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The Murchey Double Head Rapid Pipe and Nipple Threading Machines

are guaranteed to cut as many threads as
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chines on the market. ∴ ∴ ∴

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Fourth and Porter Streets, DETROIT, MICH.

Pinion Polishing Machines

STARK TOOL CO. ("Stark," Rotary Leaf), Waltham, Mass. (See adv. index, end of book)

Pinion & Wheel Cutting Machines

STARK TOOL CO. (Cuts from 1-16 to 4 inches in Diameter), Waltham, Mass. (See adv. index, end of book)

Pinking & Scalloping Machines

Ahlstrom, O. J., 711 B'way, New York
Durbrow & Hearne Mfg. Co., 12 Wooster, N. Y.
Lindner & Vradenburgh (Pinking), 239 Centre, New York
Osborne, C. S. & Co. ("C. S. O. & Co." Pinking Machines for Harness Makers, etc.), Harrison, N. J.
Rotary File & Machine Co. (Pinking Machines Only), 589 Kent av., Brooklyn, N. Y.
Stimpson, Edwin B. Co., 31 Spruce, New York

Pipe Bending Machines

Chester Engineering & Machine Co. ("P. & S."), Chester, Pa.
Chicago Pneumatic Tool Co. ("Chicago," Hand & Power), Fisher bldg., Chicago, Ill.
Standard Engineering Co., Ellwood City, Pa.
Stoever Foundry & Mfg. Co. ("Neuert"), Meyerstown, Pa.
Wallace Supply Co. (Hand Power), 23 S Jefferson, Chicago, Ill.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wrigley, Thos. & Co., 300 Dearborn, Chicago, Ill.

Pipe Calking Machines

Smith, A. P. Mfg. Co. (Automatic), Newark, N. J.

Pipe Crushing & Shearing Machines (Combined)

United Engineering & Foundry Co., Pittsburg

Pipe Cutting & Die Grinding Machines

MURGHEY MACHINE & TOOL CO., 52 Porter e 4th av., Detroit, Mich. (See adv. index & branch offices, end of book)

Pipe Cutting & Threading Machines

(See also Cutters, Pipe)

ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)

Bignall & Keeler Mfg. Co. ("Duplex," "Peerless" & "Peerless Special"), Edwardsville, Ill.

Borden Co. (Hand & Power Pipe Threading Machines, "Solid-Adjustable" Dies), Warren, O.

Clow, Jas. B. & Sons (Portable), 344 Franklin, Chicago, Ill.

Columbus Machine Co., Columbus, O.

Cox & Sons Co., 215 Race, Phila., Pa.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co., Bridgeport, Conn.

Curtis & Curtis Co., Bridgeport, Conn.

Dayton Machine Works ("Victor" Cutting Machines Only), Dayton, O.

Detrick & Harvey Machine Co. (Pipe Threading Only), 508 E Preston, Baltimore, Md.

Fox Machine Co. (Cutting Machines Only), Grand Rapids, Mich.

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

Hart Mfg. Co. (Hand), Cleveland, O.

Hoefler Mfg. Co. ("Hoefler" Adjustable Pipe Threading Machine), Freeport, Ill.

Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.

Loew Mfg. Co. ("Loew Victor"), Cleveland, O.

McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)

Merrill Mfg. Co. ("Apex," "Ideal"), Toledo, O.

Morris Engineering Co. ("Douglass" & "Eclipse" Portable Pipe Cutters up to 60 inch Pipe), 37th & Reed, Phila., Pa.

MURGHEY MACHINE & TOOL CO. (For Nipple & Pipe Threading; also Rapid Roller Pipe Cutters), 52 Porter e 4th av., Detroit, Mich. (See adv. index & branch offices, end of book)

National Machinery Co. (Pipe Threaders), Tiffin, O.

Niles-Bement-Pond Co. ("Cox," "Williams" Hand & Power), 111 B'way, New York

Nye Tool & Machine Works ("Nye" Hand Power, 1 to 4 inches), 19 S Jefferson, Chicago, Ill.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Oster Mfg. Co., 2057 E 61st pl., Cleveland, O.
Patterson Tool & Supply Co. ("Victor"), Dayton, O.

PFAFF & KENDALL, FERRY & Foundry, Newark, N. J. (See adv. index, end of book)

San Francisco Engineering Co., San Francisco

Saunders, D. Sons ("I. X L."), Yonkers, N. Y.

SIMMONS, JOHN CO., 110 Centre, New York. (See adv. index, end of book)

Smith, A. P. Mfg. Co. ("French" Pipe Cutting Machines), Newark, N. J.

Standard Engineering Co. ("Standard Wheeland"), Elwood City, Pa.

Stoever Foundry & Mfg. Co., Meyerstown, Pa.

Taylor-Wilson Mfg. Co. (For Pipe & Tube Mills, etc.), McKees Rocks, Pa.

Threading Machine Co. ("Little Wonder," "Sandusky" Plain & Ratchet Threading Machines), Sandusky, O.

Toledo Pipe Threading Machine Co., Toledo, Ohio

United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass.

Williams Tool Co. (Pipe Cutting & Threading), Erie, Pa.

Pipe Expanding & Flanging Machinery

Patterson-Allen Engineering Co. (Hydraulic), 2 Rector, New York

Pipe Jointing Machines

Bertsch & Co., Cambridge City, Ind.

Pipe Polishing Machines

Standard Engineering Co., Ellwood City, Pa.

Pipe Threading Machines

(See Pipe Cutting & Threading Machines)

Pipe & Tube Mill Machinery

Fischer Foundry & Machine Co., Ford City, Pa.

Morgan Construction Co., Worcester, Mass.

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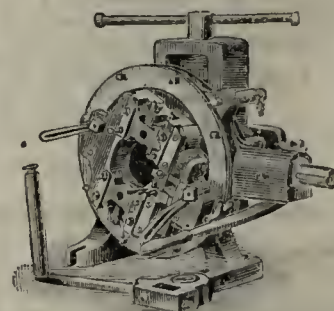
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Made in 5 Sizes—No. 0 and 00, use our Celebrated Dies either for Pipe or Bolt.

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Rosedale Foundry & Machine Co., Allegheny, Pa.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.
Union Foundry & Machine Co., Pittsburgh, Pa.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburgh, Pa.

Pipe & Tube Straightening Machines

Brightman Mfg. Co., Shelby, O.
Fischer Foundry & Machine Co., Ford City, Pa.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.

Pitching Machines

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.
Gerlach, Peter Co., Cleveland, O.
Haggenmiller, Th. (Est. of) ("Haggenmiller"), 827 N 4th, Phila., Pa.
Kaestner & Co. (Inc.) ("Perfection"), 241 S Jefferson, Chicago, Ill.
National Machine Works, Sheffield & North av, Chicago, Ill.
Pawling & Harnischfeger, 38th & National avs, Milwaukee, Wis.
Rauch, Henry & Son (Inc.) ("Universal"), Mount Vernon, N. Y.
Torchiaul, H. ("Ideal"), 245 Pearl, New York

Pivot Polishing Machines

STARK TOOL CO. ("Stark," Wig-Wag & Rotary Leaf), Waltham, Mass. (See adv. index, end of book)

Placer Mining Machinery

Bucyrus Co., South Milwaukee, Wis.
Risdon Iron & Locomotive Works, San Francisco, Cal.
United Iron Works, Oakland, Cal.

Planing Machines

(See Planers, Various Kinds)

Plaster Mill Machinery

BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)
Butterworth & Lowe (Inc.), Grand Rapids, Mich.
Dunning, W. D. ("Broughton" Plaster & Cement Mixers, etc.), Syracuse, N. Y.
Ehram, J. B. & Sons Mfg. Co., Enterprise, Kan.
Great Western Mfg. Co., Leavenworth, Kan.
SPROUT, WALDRON & CO. (Crushers, Grinders, etc.), Muncy, Pa. (See adv. index, end of book)
Standard Sand & Machine Co. (For Wall Plaster), Cleveland, O.
Sturtevant Mill Co. (Crushers, Gypsum, etc.), Clayton & Park, Dor., Boston, Mass.
Wood Fibre Machinery Co. (For Wood Fibre Plaster), Sandusky, O.

Plaster of Paris Machinery

(See Plaster Mill Machinery; also Stucco Machinery)

Plate Glass Machinery

Braddock Machine & Mfg. Co., Braddock, Pa.
Fischer Foundry & Machine Co., Pittsburgh, Pa.

Plate Scarfing Machines

Detrick & Harvey Machine Co., Baltimore, Md.

Plate Straightening Machinery

Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
Hilles & Jones Co., Wilmington, Del.
Lewis Foundry & Machine Co., Coraopolis, Pa.
Mesta Machine Co., Lewis bldg, Pittsburgh, Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Philadelphia, Pa.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Playing Card Machinery

Dietz Machine Works, 126 Fontain, Phila., Pa.

Plow Handle Machinery

Bentel & Margedant, Hamilton, O.
Defiance Machine Works, Defiance, O.
Root, B. M., Co., York, Pa.

Polishing Machines

(See also Lathes, Buffing & Polishing; also Wood Polishing Machines)

American Nickeloid Mfg. Co. (Sheet, Zinc, Automatic), Peru, Ill.
BLISS, E. W. CO. (Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Blount, J. G. Co. (Overbanging), Everett, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Fox Machine Co., Grand Rapids, Mich.
Buescher Mfg. Co., Elkhart, Ind.
Builders' Iron Foundry, Providence, R. I.
Diamond Machine Co., Providence, R. I.
Florence Machine Co., Florence, Mass.
FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
Gilmer, L. H. & Co. (Electro Platers), Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
St. Louis Machine Tool Co., St. Louis, Mo.
Slotkin, Mayer, 210 Canal, New York
Stimpson, Edwin B. & Son (Zinc & Copper Plates, etc.), 31 Spruce, New York
Stow Flexible Shaft Co. (Portable, Wood & Metal), n 26th & Buttonwood, Phila., Pa.

Polishing Machines (Marble)

(See Stone Polishing Machines)

Polka Machines

Stowell, J. A. Co., Leominster, Mass.

Pop-Corn Machines

Deters, F. & Co., 906 Elm, Cincinnati, O.
Dunbar & Co., 687 Fulton, Chicago, Ill.
Hawker, W. S. Mfg. Co. (Luxury Machines for Pop-Corn Crisps), Dayton, O.
Long, W. Z. (For Fritters Only), Springfield, O.

Porch Column Boring Machines

Bentel & Margedant (For Columns 12 to 26 Feet), Hamilton, O.

Post Boring Machines

Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.

Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Reichtin Co., Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Fox Machine Co., Grand Rapids, Mich.
Grammes, L. F. & Sons, Allentown, Pa.
Portor, C. O. & A. D., Grand Rapids, Mich.
Smith, H. B. Machine Co., Smithville, N. J.
White, Jno. A. & Co., Dover, N. H.

Potato Digging Machines

(See Diggers, Potato, with the word Machine following their name)

Potato Harvesting Machinery

Aspinwall Mfg. Co., Jackson, Mich.
Dowden Mfg. Co., Prairie City, Iowa

Potato Peeling Machines

(See also Parers, Fruit & Vegetable)
Judge Machine Co. (For Peeling Sweet Potatoes, etc.), Baltimore, Md.

Pottery Machinery

Adamson, Alex., Akron, O.
American Clay Machinery Co., Bucyrus, O.
Bonnot Company, Canton, O.
Canton-Hughes Pump Co., Canton & Cleveland, Ohio
Centre Foundry & Machine Co., Wheeling, W. Va.
Crossley Machine Co., Trenton, N. J.
Ivins, Wm. H. Sons Co., Trenton, N. J.
Knott & Harker Co., Beaver Falls, Pa.
Mackenzie's, Duncan Sons Co., Trenton, N. J.
Raymond, C. W. Co., Dayton, O.
Taplin-Rice-Clerkin Co., Akron, O.
Thropp, Jno. E. Sons Co., Trenton, N. J.
Williams Foundry & Machine Co., Akron, O.

Powder Mill Machinery

(See also Gun Powder Machinery)

BARTLETT, C. O. & SNOW CO. (Rifle & Blasting), French st., Cleveland, O. (See adv. index, end of book)
Eyster, Weiser & Co. (Ltd.), York, Pa.
FAWCUS MACHINE CO., 2820 Small- man, Pittsburgh, Pa. (See adv. index, end of book)
Greenwald, I. & E. Co., Cincinnati, O.
Pusey & Jones Co., Wilmington, Del.
Shriver, T. & Co., Harrison, N. J.
Treadwell, M. H. Co., 90 West, New York

Power Transmitting Machinery

(See also Rope Transmitting Machinery)

For Gears, Pulleys, Shafting, Hangers, Bearings, etc., see Index of Contents.
Aetna Foundry & Machine Co., Springfield, Ill.
ALLIS-CHALMERS CO. (Mechanical), Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN WELL WORKS (Pillow Blocks), Aurora, Ill. (See adv. index & branch offices, end of book)
Barnard & Leas Mfg. Co., Moline, Ill.
Birmingham Iron Foundry (Shafting, Gearing, etc.), Derby, Conn.
Bond Foundry & Machine Co., Mannheim, Pa.
Braddock Machine & Mfg. Co. (For Rolling Mills, etc.), Braddock, Pa.
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)

The worst leak of all in a manufacturing plant is in the transmission of power from the engine to the machines due to faultily designed drives and cheap

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Golding & Co., Franklin, Mass., & 540 Pearl,
New York
Goss Printing Press Co., 732 S Paulina, Chi-
cago, Ill.
Grammes, L. F. & Sons (Dealers in Machin-
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Harris Automatic Press Co. (High Speed, Self-
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Hoe, R. & Co., 504 Grand, New York
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ton, Mass.
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duction of All Kinds of Materials), Colum-
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Lafin, Chicago, Ill.
Ross, Chas. & Son Co., 148 Clason av, Brook-
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Smith, Theodore & Sons Co., ft of Essex,
Jersey City, N. J.
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Ill.

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Van Winkle, E. Gln & Machine Works, Atlanta,
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& branch offices, end of book)
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American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of
book)
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N W c Klugsbury, Chicago, Ill.
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Camden Iron Works, 400 Chestnut, Phila.,
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Connellsville Mfg. & Mine Supply Co. (Inc.)
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Dean Bros', Steam Pump Works, Indianapolis,
Ind.
**DEMING CO., Salem, O. (See adv. in-
dex, end of book)**
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San Francisco, Cal.
Edwards, Jos. & Co., 412 Water, New York
Epping-Carpenter Co. (Heavy Pumping En-
gines), Pittsburg, Pa.
Erie Pump & Engine Co., Erie, Pa.
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dex & branch offices, end of book)
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Kilby Mfg. Co., Cleveland, O.
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Morris County Machine & Iron Co., Dover,
N. J.
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winsville, N. Y. (See adv. index & branch
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Phila., Pa.
Myers, F. E. & Bro., Ashland, O.
National Steam Pump Co., Upper Sandusky, O.
Nordberg Mfg. Co., Milwaukee, Wis.
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

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Pumping Engines), Dayton, O. (See adv.
index & branch offices, end of book)
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Allis, Wis.
Providence Engineering Works (Pumping En-
gines), Providence, R. I.

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Canton, O. (See adv. index, end of book)

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Warren Steam Pump Co., Warren, Mass.

Welmer Machine Works Co. (Pumping Engines
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Pa.

Weinman Machine Works, Columbus, O.

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Engines), Chester, Pa.

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Wood, R. D. & Co. (High Duty), 400 Chest-
nut, Phila., Pa.

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DEMING CO., Salem, O. (See adv. in-
dex, end of book)

THOMAS & SMITH (Inc.) ("Econ-
omy"), 17 S Carpenter, Chicago, Ill., & 288
Hudson, New York. (See adv. index, end
of book)

Pumping Machines (Gasoline)

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

DEMING CO., Salem, O. (See adv. in-
dex, end of book)

Foss Gas tEngine Co., Springfield, O.

Myers, F. E. & Bro., Ashland, O.

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index, end of book)

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index, end of book)

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end of book)

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end of book)

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ton, Del.

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New Doty Mfg. Co., Janesville, Wis.

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Sutton, C. E. Co., Toledo, O.

United Engineering & Foundry Co., Farmers'
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index, end of book)

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adv. index, end of book)

Punching Machines (Disc)

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

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or Steam Driven), Hamilton, O.

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Paper, Etc.

Automatic Specialty Co., 6th & Baymiller,
Cincinnati, O.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

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Ferracute Machine Co., Bridgeton, N. J.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of
book)

Punching Machines (Gang)

(See Punching Machines, Multiple)

Punching Machines (Horizontal)

(See also Machinery, Punching & Shearing)

Alliance Machine Co., Alliance, O.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

CLEVELAND PUNCH & SHEAR
Works Co., Cleveland, O. (See adv. index,
end of book)

Lewis Foundry & Machine Co., Coraopolis, Pa.

Long & Allstatter Co. (Heavy, Belt, Motor &
Steam Driven), Hamilton, O.

Pels, Henry & Co., 90 West, New York.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Phila., Pa.

United Engineering & Foundry Co., Farmers'
B'k bldg, Pittsburg, Pa.

Whiting, Geo. Co., 156 W North av, Chicago,
Williams, White & Co., Moline, Ill.

YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. index, end of book)

Punching Machines (Hydraulic)

(See also Machinery, Punching & Shearing)

Alliance Machine Co., Alliance, O.

DUDGEON, RICHARD, 24 Columbia,
New York. (See adv. index, end of book)

Henderer's, A. L. Sons, Wilmington, Del.

Long & Allstatter Co. (Belt, Motor & Steam
Driven), Hamilton, O.

MORGAN ENGINEERING CO., Alli-
ance, O. (See adv. index & branch offices,
end of book)

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United Engineering & Foundry Co., Farmers'
B'k bldg, Pittsburg, Pa.

WATSON-STILLMAN CO., 50 Church,
New York. (See adv. index, end of book)

Wood, R. D. & Co. (Flange or Angle), 400
Chestnut, Phila., Pa.

Wood, W. H., Media, Pa.

Punching Machines (Hydraulic, Manhole)

(See Punching & Shearing Machines, Manhole)

Punching Machines (I-Beam)

CLEVELAND PUNCH & SHEAR
Works Co., Cleveland, O. (See adv. index,
end of book)

DUDGEON, RICHARD (Hydraulic),
24 Columbia, New York. (See adv. index,
end of book)

Hilles & Jones Co., Wilmington, Del.

Long & Allstatter Co. (Belt, Steam or Motor
Driven), Hamilton, O.

New Doty Mfg. Co., Janesville, Wis.

Niles-Bement-Pond Co., 111 B'way, New York

Pels, Henry & Co., 90 West, New York

Sutton, C. E. Co., Toledo, O.

United Engineering & Foundry Co., Farmers'
B'k bldg, Pittsburg, Pa.

WATSON-STILLMAN CO., 50 Church,
New York. (See adv. index, end of book)

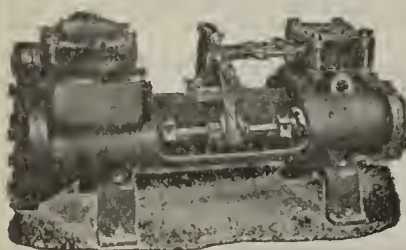
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av, Chicago, Ill.

YOUNG MACHINE & TOOL CO., 211
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(See adv. index, end of book)

Punching Machines (Multiple)

Alliance Machine Co., Alliance, O.

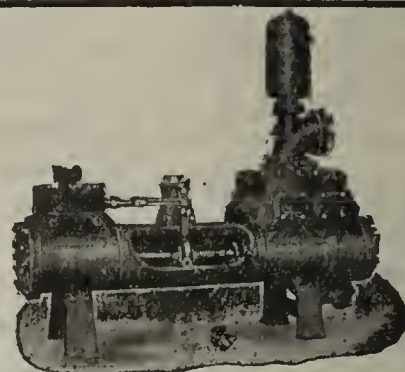
BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)



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Pot Valve Pump.



Piston Pattern Service Pump.

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Hilles & Jones Co., Wilmington, Del.

Long & Allstatter Co. (Also Heavy Belt, Motor or Steam Driven for Splce Bars, etc.), Hamilton, O.

Loy & Nawrath Co. (Gang Punches), Newark, N. J.

Manning, Maxwell & Moore, 85 Liberty, New York

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Pels, Henry & Co., 90 West, New York

Perkins Machine Co., Warren, Mass.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)

Queen City Punch & Shear Co., Cincinnati, O.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Sutton, C. E. Co., Toledo, O.

United Engineering & Foundry Co. Farmers' B'k bldg, Pittsburg, Pa.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Whiting, Geo. Co., 156 W North av, Chicago, Ill.

Williams, White & Co. (& Gate Shear), Moline, Ill.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Punching Machines (Screw)

Barber Mfg. Co., Ashtabula, O.

BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)

Gunnell Machine Co., Manitowoc, Wis.

Henderer's, A. L. Sons (Cast Steel), Wilmington, Del.

IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)

New Doty Mfg. Co. (Steel), Janesville, Wis.

Oswego Tool Co. (Boilermakers' Steel), Oswego, N. Y.

Perkins Machine Co., Warren, Mass.

WOODS VALVE & MACHINE CO. ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punching Machines (Stiles)

BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)

Punching & Cutting Machines (Combined)

McDougall & Potter Co. (For Bar Iron, etc.), 606 W 55th, New York

Punching & Shearing Machinery

(See also Punching Machines, Various Kinds; also Shears, Various Kinds)

Alliance Machine Co., Alliance, O.

Automatic Specialty Co., Cincinnati, O.

Badger State Machine Co. (Hand & Belt Power), Janesville, Wis.

Beaudry & Co. (Inc.), 141 Milk, Boston, Mass.

Bertsch & Co., Cambridge City, Ind.

Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.

BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)

Cincinnati Punch & Shear Co., Cincinnati, O.

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

Erie Foundry Co. (Shearing Machines Only), Erie, Pa.

Evans', Jno. Sons (Heavy), 13th & Buttonwood, Phila., Pa.

Excelsior Tool Machine Co., East St. Louis, Ill.

Ferracute Machine Co., Bridgeton, N. J.

FREVERT MACHINERY CO., 18 Decy, New York. (See adv. index, end of book)

HEARTLEY MACHINE, VARIETY Iron & Tool Works (Punches & Dies), Toledo, O. (See adv. index, end of book)

Hilles & Jones Co., Wilmington, Del.

Johnson, Israel H., Jr., Co., Phila., Pa.

Kidder, J. F. Mfg. Co., Burlington, Vt.

Krips-Mason Machine Co. (Scrap Punching Machines), 1636 N Hutchinson, Phila., Pa.

Lewthwalte, T. H. (Power Hand & Foot), 413 E 31st, New York

Little Giant Punch & Shear Co. ("Little Giant" Hand), Sparta, Ill.

Long & Allstatter Co. (Deep Throat, etc.), Hamilton, O.

Luther Mfg. Co., Olean, N. Y.

Mackintosh, Hemphill & Co., Pittsburg, Pa.

MORGAN ENGINEERING CO. (Elec-tric, Hydraulic, Steam & Power), Alliance, Ohio. (See adv. index & branch offices, end of book)

New Doty Mfg. Co. (Blacksmith & Carriage Builders), Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Ohl, Geo. A. & Co. (Sheet Metal Workers), 157 Oraton, Newark, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.

Pels, Henry & Co., 90 West, New York

Perkins Machine Co., Warren, Mass.

Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)

Queen City Punch & Shear Co. (Single & Double Throat, 4 to 48-in.), Cincinnati, O.

Robinson, J. M. Mfg. Co., Cincinnati, O.

Rock River Machine Co., Janesville, Wis.

Royersford Foundry & Machine Co. (Combined), Royersford, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Sutton, C. E. Co., Toledo, O. Phila., Pa.

Toledo Machine & Tool Co., Toledo, O.

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Wals-King Tool Co. (Power), Winton pl., O.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

WATSON-STILLMAN CO. (Hydraulic, etc.), 50 Church, New York. (See adv. index, end of book)

Whiting, Geo. Co., 156 W. North av, Chicago, Ill.

Wickes Bros., Saginaw, Mich.

Williams, White & Co., Moline, Ill.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

WOOD, WM. H., MEDIA, PA.

YOUNG MACHINE & TOOL CO. (Hand & Power), 211 Center, New York, & Worcester, Mass. (See adv. index, end of book)

Punching & Shearing Machines (Combined)

BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Perkins Machine Co., Warren, Mass. (book)

Royersford Foundry & Machine Co. (Power), Royersford, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Sutton, C. E. Co., Toledo, O. Phila., Pa.

WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

YOUNG MACHINE & TOOL CO., 211 Center, New York, & Worcester, Mass. (See adv. index, end of book)

Punching & Shearing Machines (Double End)

MORGAN ENGINEERING CO. (Belt Driven, etc.), Alliance, O. (See adv. index, end of book)

Toledo Machine & Tool Co., Toledo, O.

Williams, White & Co., Moline, Ill.

Punching & Shearing Machines (Manhole)

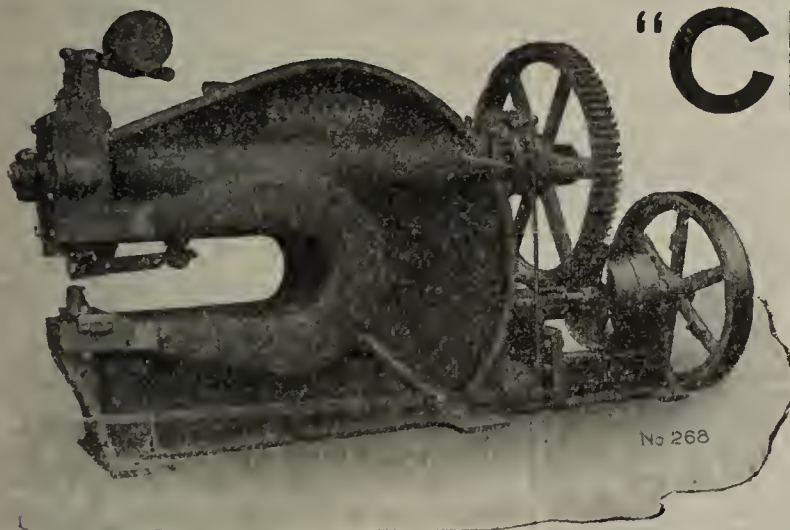
CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

MORGAN ENGINEERING CO. (Hy-draulic), Alliance, O. (See adv. index & branch offices, end of book)

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Punching & Shearing Machines (Plate Work)

BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)



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Rack Cutting Machines

Gould & Eberhardt (Automatic & Semi-Automatic), Newark, N. J.
Le Blond, R. K. Machine Tool Co., Cincinnati, O.
Walcott & Wood Machine Tool Co. (36 x 2, 60 x 10 & 96 x 10 in., Half & Full Automatic), Jackson, Mich.

Rag Cutting Machines

Black-Clawson Co., Hamilton, O.
Holyoke Machine Works, Holyoke, Mass.
Mills Machine Co., Lawrence, Mass.
Norwood Engine Co., Florence, Mass.
Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.
Taylor, Stiles & Co., Riegelsville, N. J.

Rail Bending & Straightening Machines

(See also Rail Benders)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Niles-Bement-Pond Co., 111 B'way, New York
Quincy-Manchester-Sargent Co. (Hydraulic), Plattsfield, N. J.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
United Engineering & Foundry Co. (Vertical for Rolling Mills), Farmers' Bank bldg., Pittsburg, Pa.
WATSON-STILLMAN CO. (Hydraulic), 50 Church, New York. (See adv. index, end of book)

Rail Cutting Machines

Niles-Bement-Pond Co., 111 B'way, New York
Pels, Henry & Co., 90 West, New York

Rail Ending Machines

Newton Machine Tool Works (Inc.), 2347 Vine, Philadelphia, Pa.

Rail Sawing Machines

(See also Cold-Saw Cuttlog-Off Machines; also Hot Sawing Machines)
Buda Foundry & Mfg. Co. (Rail & Shop), Railway Ex. bldg, Chicago, Ill.
Higley Machine Co., Croton Falls, N. Y.
Newton Machine Tool Works, 2347 Vine, Philadelphia, Pa.
Quincy-Manchester-Sargent Co., Plainfield, N. J.

Railroad Cross Tie Machines

Salem Iron Works (Inc.), Salem, N. C.

Railway Track Laying Machines

Harris Track Laying Machine Co., Chicago, Ill.
Holman, D. F. Railway Tracklayer Co., 355 Dearborn, Chicago, Ill.
Hurley Track Laying Machine Co., Syracuse, N. Y.
Roberts Bros., 125 La Salle, Chicago, Ill.

Raisin Machinery

Fresno Agricultural Works, Fresno, Cal.

Rattan Weaving Machinery

Leffler, Chas. & Co., 63 Clymer, B'klyn, N. Y.

Reaming Machines

Niles-Bement-Pond Co., 111 B'way, New York
Smith, E. G. Co. (Power), Columbia, Pa.
Stow Mfg. Co., Binghamton, N. Y.

Reclamation Machinery

Haslehurst, W. W., 2122 Folsom, San Francisco, Cal.
Krogh Mfg. Co., San Francisco, Cal.

Reducing Machines

(See Swaging Machines)

Refrigerating Machinery

(See Ice & Refrigerating Machines)

Registering Machines

Root, C. J., Bristol, Conn.

Rendering Machinery

Brecht, B. S. Co., 12th & Cass av, St. Louis, Mo.

PLATT IRON WORKS CO. ("Powter") Process), Dayton, O. (See adv. index & branch offices, end of book)

Re-Sawing Machines

(See Band Sawing Machines)

Re-Sawing Machines (Horizontal)

Chase Turbine Mfg. Co., Orange, Mass.

Re-Seating Machines

Lagonda Mfg. Co. (For Cleaning Faces, Nuts & Caps of Boiler Tubes), Springfield, O.
Liberty Mfg. Co. (For Cleaning Faces, Nuts & Caps of Water Tube Boilers), Pittsburg, Pa.

Rice Cleaning Machinery

(See Coffee & Rice Cleaning Machinery)

Rice Mill Machinery

Barnard & Leas Mfg. Co. (Separators, Graders, Clippers, etc.), Moline, Ill.
Nordyke & Marmon Co., Indianapolis, Ind.
SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)
Wolf Co., Chambersburg, Pa.

Rice & Coffee Hulling Machinery

Barnard & Leas Mfg. Co. (Rice Hullers for Mills & Plantations), Moline, Ill.
Hlymyer Iron Works Co., Cincinnati, O.
Eugelsburg Huller Co., Syracuse, N. Y.

Rim Machines

(See Hub, Spoke & Rim Machinery)

Rim Bending Machines

Defiance Machine Works, Defiance, O.

Rim Polishing Machines

Ohl, Geo. A. & Co. (Wheel Rims, etc.), 157 Oraton, Newark, N. J.

Ring Forming Machines (Automatic)

American Can Co. (Rudolph & Krummel), 135 Adams, Chicago, Ill.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Ring & Loop Machinery

Reed Mfg. Co., Springfield, O.
Special Machinery Co. (Automatic), Bridgeport, Conn.

Rip Saw Machines

American Woodworking Machinery Co., Rochester, N. Y., & West St. bldg, New York
Atlantic Works (Inc.), 2821 Oakford st., Phila., Pa.
Barnes, W. F. & Jno. (Hand Power), Rockford, Ill.

Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Reichtin Co., Cincinnati, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer, E. Machine Works (Self Feed), 710 Carroll av., Chicago, Ill.
Frank Machinery Co., Buffalo, N. Y.
Garland, M. Co., Bay City, Mich.
Grammes, L. F. & Sons (Combination Rip & Cross Cut, Allentown, Pa.)

Greenlee Bros. & Co. (Self Feed), Railway Exchange bldg., Chicago, Ill.
Hermance Machine Co. (Adjustable Roll Self-Feed), Williamsport, Pa.

Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.
Marston, J. M. & Co. (Foot Power), 223 Rungles, Boston, Mass.

Mershon, Wm. B. & Co., Saginaw, Mich.
Ober Mfg. Co. (Self-Fed), Chagrin Falls, O.
Root, B. M. Co., York, Pa.

Power, L. & Co. (Self-Feed), Phila., Pa.
Sidney Tool Co. ("Defiance" for Wagon Making), Sidney, O.
Sinker-Davls Co. ("Hoosier" Self-Feed), 230 S Missouri, Indianapolis, Ind.
Yerkes & Finan Woodworking Machine Co. (Iron Frame), St. Louis, Mo.

Rivet Heading Machines

Acme Machinery Co., Cleveland, O.
AJAX MFG. CO., 3830 Lakeside, N. E., Cleveland, O. (See adv. index, end of book)
Cook, Asa S. Co. (New Patent Feed), 89 Huyslope av, Hartford, Conn.
National Machinery Co., Tiffin, O.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Rivet Machinery

Acme Machinery Co., Cleveland, O.
Blake & Johnson Co., Waterbury, Conn.
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)
National Machinery Co., Tiffin, O.
Waterbury Farrel Foundry & Machine Co.

Rivet Spinning Machines

Grant Mfg. & Machine Co., Bridgeport, Conn.

Rivet & Hoop Applying Machines

Tubular Rivet & Stud Co., Boston, Mass.

Rivet & Staple Setting Machines

Standard Rivet Co., 41 Lincoln, Boston, Mass.

Riveting Machines

(See also Pneumatic Riveters)

Chambersburg Engineering Co., Chambersburg, Pa.
Draher, Jno., Waterbury, Conn.
FEVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)
Grant Mfg. & Machine Co. (Motor & Belt Driven), Bridgeport, Conn.
Heath Foundry Mfg. Co. ("Plymouth Rock"), Plymouth, O.
HEARTLEY MACHINE, VARIETY Iron & Tool Works (for Metal Wheels), Toledo, O. (See adv. index, end of book)
Hilles & Jones Co. (Power), Wilmington, Del.
Hibbell, Harvey, Bridgeport, Conn.
Long & Allstatter Co., Hamilton, O.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

NIAGARA MACHINE & TOOL Works (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Perkins Machine Co. (Power), Warren, Mass.
Rock River Machine Co. ("Badger," Stake), Janesville, Wis.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

SHUSTER, F. B. CO. (Elastic Rotary Blow, etc.), New Haven, Conn. (See adv. index, end of book)

Standish Machine & Supply Co. (for Patching Cotton Tie Bands, etc.), Columbus, O.
Stimpson, Edwin B. Co. (Leather), 31 Spruce, New York

Toledo Machine & Tool Co., Toledo, O.
Townsend, H. P. Mfg. Co. (Multi-Blow High Speed), Hartford, Conn.

Whiting Geo. Co. (Belt Power), 156 W North av, Chicago, Ill.

Wickes Bros., Saginaw, Mich.
Williams, White & Co., Moline, Ill.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Riveting Machines (Fire Door)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Riveting Machines (Hand)

Arande Mfg. Co., Freeport, Ill.
Great Lakes Mfg. Co., 152 Lake, Chicago, Ill.
Heath Foundry & Mfg. Co. ("Plymouth Rock"), Plymouth, O.
Smith, F. H. Mfg. Co. (Harness, etc.), 48 St Johns ct, Chicago, Ill.

Riveting Machines (Hoop)

Smith, F. H. Mfg. Co. (Hand Power), 46 St. Johns, Chicago, Ill.
Stralt, H. N. Mfg. Co., Kansas City, Mo.

Riveting Machines (Hydraulic)

Alliance Machine Co., Alliance, O.
Chambersburg Engineering Co., Chambersburg, Pa.
Fischer Foundry & Machine Co., Ford City, Pa.
MORGAN ENGINEERING CO. (Solid Stake, Loose Head; also Two Piece Stake, etc.), Alliance, O. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Philadelphia Roll & Machine Co., S 23d & Washington av., Phila., Pa.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)
Wood, R. D. & Co. (Stationary & Portable), 400 Chestnut, Phila., Pa.
Wood, W. H., Media, Pa.

Riveting Machines (Hydraulic Lifting)
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Riveting Machines (Hydraulic Portable)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Riveting Machines (Pneumatic)
(See Pneumatic Riveters)**Riveting Machines (Portable)**
(See also Pneumatic Riveters)

Bethlehem Foundry & Machine Co. (Alligator, etc.), Front, South Bethlehem, Pa.
MORGAN ENGINEERING CO. (Hydraulic), Alliance, O. (See adv. index, end of book)
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Wickes Bros., Saginaw, Mich. Phila., Pa.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Wood, Wm. H., Media, Pa. Phila., Pa.

Riveting Machines (Spoke)

Williams, White & Co., Moline, Ill.

Riveting Machines (Steam)

Bethlehem Foundry & Machine Co. (Vertical Gap or Portable Alligator), Front, South Bethlehem, Pa.
Hillis & Jones Co., Wilmington, Del.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Pusey & Jones Co., Wilmington, Del.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Riveting Machines (Wheel)

Long & Alistatter (Belt Motor & Steam Driven), Hamilton, O.

Road Making Machinery

(See Asphalt Machinery; Concrete Mixers; Ditching Machines; Plows, Contractors'; Road Machines & Graders; Road Scrapers; Drag & Wheel; Rock & Ore Crushers; Rollers, Steam Road)
(For all other Road Making Specialties see Index of Contents)

Rock Drill Sharpening Machines

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Rocker Cut-Off Sawing Machines

Connell & Dengler Machine Co., Rochester, N. Y.

Rod, Pin & Dowel Machines

American Wood Working Machine Co., Rochester, N. Y., & West Street bldg, New York
Baker Bros., Toledo, O.
Bentel & Margendant Co. (Power or Hand Feed), Hamilton, O.
Cordesman, Reichtin Co., Cincinnati, O.
Cowdrey, C. H. Machine Works, Fitchburg, Mass.

Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Goodspeed Machine Co., Winchendon, Mass.
Hawker, W. S. Mfg. Co. ("Acme" Adjustable), Merritt Mfg. Co., Lockport, N. Y.
Dayton, O.
Moshanun Mfg. Co., Phillipsburg, Pa.
Pringle & Brodie Machinery Co., 277 S Canal, Chicago, Ill.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
Trevor Mfg. Co., Lockport, N. Y.

Rod or Bar Drawing Machines

Brightman Mfg. Co., Shelby, O.
Morgan Construction Co., Worcester, Mass.
Waterbury Machine Co. (Rod Drawing), Waterbury, Conn.

Rod & Tube Drawing Machines

Richard Mfg. Co., Bloomsburg, Pa.

Rod & Tube Pointing Machines

Excelsior Needle Co., Torrington, Conn.
Morgan Construction Co., Worcester, Mass.
Waterbury-Farrel Foundry & Machine Co., Waterbury, Conn.
WRIGHT WIRE CO. (Rod Pointing), Worcester, Mass.

Roll Covering Machines

Turner, J. S. Mfg. Co., 398 Middlesex, Lowell, Mass.

Roll Grooving Machines

Morgan Construction Co., Worcester, Mass.
Pratt & Whitney Co., Hartford, Conn.

Roll Straightening & Finishing Machines

Brightman Mfg. Co., Shelby, O.

Rolling Machines (Paper, Cloth, Leather, Etc.)

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)

Rolling Mill Machinery

(See also Tin Plate Mill Machinery, Etc.)
Actna Foundry & Machine Co., Warren, O.
Allentown Rolling Mills, Allentown, Pa.
Alliance Machine Co., Alliance, O.
American Machine & Mfg. Co., Cleveland, O.
American Sheet & Tin Plate Co., Roll & Machine Works, Canton, O.
American Roll & Foundry Co., Canton, O.
Atlas Car & Mfg. Co., Cleveland, O.
Bertsch & Co., Cambridge City, Ind.
Bethlehem Steel Co., South Bethlehem, Pa., & 111 B'way, New York
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.

Birmingham Iron Foundry, Derby, Conn.
Blake & Johnson Co., Waterbury, Conn.
Braddock Machine & Mfg. Co. (Bar, Sheet, Plate, Rod, Wire, Tin Plate & Mill Construction), Braddock, Pa.
Bruce-Macbeth Engine Co., Cleveland, O.
Centre Foundry & Machine Co., Wheeling, W. Va.
Cleveland Machine & Mfg. Co., Cleveland, O.
Danville Foundry & Machine Co., Danville, Pa.
Davenport Foundry Machine Co., Davenport, Iowa.
Farrel Foundry & Machine Co. (For Brass, Copper, Zinc, Britannia, etc.), Ansonia, Conn.
FAWCUS MACHINE CO. (Gears & Special Machinery), 2820 Smallman, Pittsburgh, Pa. (See adv. index, end of book)
Ferracute Machine Co. (For Coiling Strips), Bridgeport, N. J.

Fischer Foundry & Machine Co., Ford City, Pa.
Garrison, A. Foundry Co., 9th & Bingham, Pittsburgh, Pa.

Heppenstall Forge & Knife Co., Pittsburgh, Pa.
Hillis & Jones Co., Wilmington, Del.
Hyde Park Foundry & Machine Co., Hyde Park, Pa., & Frick bldg, Pittsburgh, Pa.
Hydraulic Machine Co., North Side, Pittsburgh, Pa.
Johnston & Jennings Co., Cleveland, O.
Kibby Mfg. Co., Cleveland, O.

Lewis Foundry & Machine Co., Coraopolis, Pa.
Lingle, J. H., Bellefonte, Pa.
Mackintosh, Hemphill & Co., ft 12th, Pittsburgh, Pa.
Mesta Machine Co., Pittsburgh, Pa.
Morgan Construction Co., Worcester, Mass.

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Newbold, R. S. & Son Co., Norristown, Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Ohi, Geo. A. & Co., 157 Oraton, Newark, N. J.
Penn. Engineering Works, New Castle, Pa.
Phila. Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

Phillips & McLaren, Pittsburg, Pa.
Pittsburg Industrial Iron Works, Pittsburg, Pa.
Poole Engineering & Machine Co., Baltimore, Md.
Reading Iron Co., Reading, Pa.

REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
Rosedale Foundry & Machine Co., Allegheny, Pa.

Seafie Foundry & Machine Co., Pittsburg, Pa.
Seaman Sleeth Co. (Sand & Chilled Rolls Only), 41st & A. V. R'y, Pittsburg, Pa.
Standard Engineering Co. (To Order), Ellwood City, Pa.

Standard Machinery Co., Providence, R. I.
Sterritt-Thomas Foundry Co., 32d & Smallman, Stevenson Co., Wellsville, O.
Pittsburg, Pa.
Thompson, Hugh L., Waterbury, Conn.

Tod, Wm. Co. (Engines, etc.), Youngstown, O.
Tretthewey, Sam'l & Co. (Ltd.), Pittsburg, Pa.
Tyrone Foundry & Machine Co., Tyrone, Pa.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Union Foundry & Machine Co., Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Weimer Machine Works Co., Lebanon, Pa.
Wellman-Seaver-Morgan Co., Cleveland, O.
Wheeling Mold & Foundry Co., Wheeling, W. Va.
Wolf Co. (Inc.), Chambersburg, Pa.

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)
Youngstown Foundry & Machine Co., Youngstown, O.

Roofing Machines

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

White, Robert Engineering Wks., ft Columbia, Brooklyn, N. Y.

Roofing Paper Machines

Haberkamp, Wm. Machine Works (Two & Three Ply), 69 N Wells, Chicago, Ill.

Roofing Tile Machinery

American Clay Machinery Co., Bucyrus, O.
Fate, J. D. Co., Plymouth, O.
Mueller Bros., St. Louis, Mo.
Raymond, C. W. Co., Dayton, O.

Rope Transmitting Machinery

(See also Power Transmitting Machinery)
Barnard & Leas Mfg. Co., Moline, Ill.
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. See adv. index, end of book)
Caldwell, H. W. & Son, 17th & Western av, Chicago, Ill.
Cresson, Geo. V. Co., Allegheny av W of 17th, Pittsburg, Pa.

Dodge Mfg. Co., Mishawaka, Ind.
G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)

Howard Iron Works, Buffalo, N. Y.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
Link Belt Co. (Manila Rope, etc.), W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York

MINNEAPOLIS STEEL & MACHINE-ry Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
Moore & Lorenz Co., 816-822 Fulton, Chicago

Nordyke & Marmon Co., Indianapolis, Ind.
Shriver, T. & Co., Harrison, N. J.
Tamaqua Mfg. Co., Tamaqua, Pa.

WEBSTER MFG. CO., 1075 W 15th, Chicago, Ill., & 88 Rende, New York. (See adv. index & branch offices, end of book)

WELLER MFG. CO., 124 E North av, Chicago, Ill. (See adv. index, end of book)
Wood's, T. B. Sons Co., Chambersburg, Pa.

Rope & Twine Machinery

(See Cordage Machinery)

Rosette & Corner Block Machines

American Steam Pump Co., Battle Creek, Mich.
Pringle & Brodie Machinery Co., 277 S Canal, Chicago, Ill.

Rotary Printing & Rewinding Machines

Kidder Press Co., Dover, N. H.

Round Cornering Machines

Southward Bros. (The Sterling), Portland, Me.

Routing Machines

Bentel & Margedant Co., Hamilton, O.
Cordesman, Rehtin Co., Cincinnati, O.
Royle, Jno. & Sons (Inc.), Paterson, N. J.
Smith, H. B. Machine Co., Smithville, N. J.
Stevenson Machine Co. ("Kelley" Electric Portable), Buffalo, N. Y.

Routing & Mortising Machines (Gang)

Bentel & Margedant Co., Hamilton, O.

Rubber Band Cutting Machines

Adamson, Alex., Akron, O.
Birmingham Iron Foundry, Derby, Conn.

Rubber Belt Making Machinery

Birmingham Iron Foundry, Derby, Conn.

Rubber Grinding & Mixing Machines

Birmingham Iron Foundry, Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.
STROUD, E. H. & CO. (Grinders), 36
La Salle, Chicago, Ill. (See adv. index, end of book)

Thropp, Jno. E. Sons Co., Trenton, N. J.
Thropp, Wm. R., Trenton, N. J.
Watson Machine Co., Paterson, N. J.

Rubber Hose Making Machines

Baker, Wm. H., Trenton, N. J.
Birmingham Iron Foundry (For Rubber & Other Hose), Derby, Conn.

Rubber Hose Wiring Machines

Baker, Wm. H., Trenton, N. J.

Rubber Mill Machinery

Adamson, Alex., Akron, O.
American Tool & Machine Co. (Spreaders & Mixers), 109 Beach, Boston, Mass.
Birmingham Iron Foundry, Derby, Conn.
Clark, Edred W. (For Making Carriage Tires, Wire Covering), Hartford, Conn.
ELMES, CHAS. F. ENGINEERING
Works, c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Farrel Foundry & Machine Co., Ansonia, Conn.
Mackenzie's, Duncan Sons Co., Hamilton, N. J.
Philadelphia Roll & Machine Co., S 23d & Wash'n av., Phila., Pa.
Royle, John & Sons, Paterson, N. J.
Thropp, John E. Sons Co., ft of Lewis, Trenton, N. J.
Thropp, Wm. R., Trenton, N. J.
Watson Machine Co. (Mills, Dryers, Vulcanizers & Presses), Paterson, N. J.
WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)
Williams Foundry & Machine Co., Akron, O.

Rubber Reclaiming Machinery

Birmingham Iron Foundry, Derby, Conn.

Rubber Shoddy Washing Machines

Baker, Wm. H., Trenton, N. J.

Rubber Strip Cutting Machines

New England Butt Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

Rubber Tire Applying Machinery

Williams Foundry & Machine Co., Akron, O.

Rubber Tire Machines

Clark, Edred W. (Tubing, Tire & Electric, etc.), Hartford, Conn.
Williams Foundry & Machine Co., Akron, O.

Rubber Tube Making Machines

Adamson, Alex., Akron, O.
Clark, Edred W., Hartford, Conn.
Erie Pump & Engine Co. ("Bay State"), Erie, Pa.
Royle, Jno. & Sons, Paterson, N. J.
Textile Machine Works, Reading, Pa.

Rubber Washing Machines

Birmingham Iron Foundry, Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.

Thropp, Jno. E. Sons Co., Trenton, N. J.
Thropp, Wm. R., Trenton, N. J.
Turner, Vaughn & Taylor Co. (Tubs Only), Cuyahoga Falls, O.
Watson Machine Co., Paterson, N. J.

Rule Cutting Machines

BECK, CHAS. PAPER CO. (LTD.), 607
Chestnut, Phila., Pa. (See adv. index, end of book)

Ruling Machines

Blackhall Mfg. Co., Buffalo, N. Y.
Hickox, W. G. Mfg. Co., Harrisburg, Pa.
Hope, John & Sons' Engraving & Mfg. Co., Providence, R. I.
McAdams, John & Sons, 978 Kent av., Brooklyn, N. Y.
Piper, E. G., Springfield, Ohio.
Wesel, F. Mfg. Co., 70 Cranberry, Brooklyn, N. Y.

Saddle Seat Machines

Gardner Machine Works (E. N. & W. H. Hobby, Prop's), Gardner, Mass.

Safety Pin Machinery

Baird Machine Co., Oakville, Conn.
Blake & Johnson Co., Waterbury, Conn.
Manville Bros. Co., Waterbury, Conn.
Manville, E. J. Machine Co., Waterbury, Conn.
Waterbury Machine Co., Waterbury, Conn.

Salt Making Machinery

Bartlett, A. F. & Co., Saginaw, Mich.
SCHULE, F. H. CO. (Automatic Scale), 114-118 Liberty, New York. (See adv. index, end of book)

Salt Well Machinery

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Bartlett, A. F. & Co., Saginaw, Mich.
Garland, M. Co., Bay City, Mich.
Great Western Mfg. Co. (For Salt Mills), Leavenworth, Kan.
Jackson & Church Co., Saginaw, Mich.
Manistee Iron Works Co., Manistee, Mich.

Sand Blast Machines

American Diamond Blast Co., 50 Church, New York
Astel, H. J. & Co., Providence, R. I.
Chester Engineering & Machine Co., Chester, Pa.

CLAYTON AIR COMPRESSOR WKS
(Air Sand Blasts), 115 B'way, New York.
(See adv. index & branch offices, end of book)
Curtis & Co. Mfg. Co., St. Louis, Mo.
Drucklieb, O. (Injector Sand Blast Apparatus), 132 Reade, New York

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Jorn, A., Jr. ("Jorn"), Wankegan, Ill.

LAILAW-DUNN-GORDON CO. (Air Sand Blasts), 115 B'way, New York. (See adv. index & branch offices, end of book)
Leiman Bros. (For Brass Workers, Jewelers, Blacksmiths, Platers, etc.), 139 Center, New York

MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
Niagara Device Co., Buffalo, N. Y.
Nichols, D. M. Iron Works ("Danic"), Gouverneur & South, New York

Paxson, J. W. Co. ("Paxson-Warren" for Cleaning Steel & Castings), 1021 N Delaware av., Phila., Pa.

Pettinos Bros. ("Cyclone"), Bethlehem, Pa.
Sippel, Theo. A. (For Brass Workers, Nickel Platers, etc.), Newark, N. J.
Tilghman-Brooksbank Sand Blast Co. ("Tilghman," "Matthewson"), 1126 S 11th, Phila., Pa.

Sand Conveying Machinery for Continuous Molding

(See also Conveyors, Various Kinds)
Standard Sand & Machine Co., 5157 St. Clair, Cleveland, O.

Sand Drum Machines

Bentel & Margedant Co., Hamilton, O.

Sand-Lime Brick Machinery

(See also Brick Presses, Etc.)
AMERICAN CLAY MACHINERY CO.,
Bucyrus, O.
American Sand-Lime Brick Co., 77 Jackson boul., Chicago, Ill.

American Sandstone Brick Machinery Co. ("Komnick"), Saginaw, Mich.
Cleveland Brick Machinery Co. ("Perfection"), Wickliffe, O.

International Sand-Lime Brick Machinery Co., 90 West, New York

Jackson & Church, Saginaw, Mich.

Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.

National Brick Machinery Co. ("National" Rotary), 138 Washington, Chicago, Ill.

Power & Mining Machinery Co., Cudahy, Wis.

Sand Lime Brick Plant Co., 18 E 42d, New York

Western Composite Brick Co., Kansas City, Mo.

Wilmington Iron Works (Mixers), Wilmington, N. C.

Sand Mixing Machines

Barbour-Stockwell Co., Cambridge, Mass.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

Gould & Eberhardt, Newark, N. J.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Link Belt Co., W 39th & Stewart av., Chicago, Ill., & 299 B'way, New York

Mumford, E. H. Co., 1223 Spring, Phila., Pa.

Obermayer, S. Co., 647 Evans, Cincinnati, O.

OSBORN MFG. CO., 5401 Hamilton
av, N E, Cleveland, O. (See adv. index, end of book)

Paxson, J. W. Co., 1021 N Delaware av., Phila., Pa.

Sand Mixing Machine Co., 220 B'way, New York

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

SMITH, J. D. FOUNDRY SUPPLY CO.,
1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)

Standard Sand & Machine Co. (Mixer & Screen Combined), 5157 St. Clair, Cleveland, O.

U. S. Chaplet & Supply Co., 140 Cedar, New York

Sand Molding Machines

(See Molding Machines, Foundry)

Sand Paper Making Machinery

Waldron, Jno. Co., New Brunswick, N. J.

Sand Papering Machines

American Wood Working Machine Co., Rochester, N. Y., & West Street bldg, New York

Bentel & Margedant Co., Hamilton, O.

Berlin Machine Works, Beloit, Wis.

Clemons Machine Co. ("Clemons" Belt Sander), Hornell, N. Y.

Cordesman, Rehtin Co., Cincinnati, O.

Defiance Machine Works, Defiance, O.

Driver, C. H., Racine, Wis.

Fay, J. A. & Egan Co., Cincinnati, O.

Grammes, L. F. & Sons, Allentown, Pa.

Hayes Machine Co. (Inc.), Kingston, N. Y.

Moore Carving Mach. Co. ("Victor Imperial"), 1921 Portland av., Minneapolis, Minn.

Oliver Machinery Co., Grand Rapids, Mich.

Power, L. & Co., 20 S 23d, Phila., Pa.

Smith, H. B. Machine Co., Smithville, N. J.

Stevenson Machine Co. ("Kelley" Electric Portable), Buffalo, N. Y.

White, Jno. A. & Co., Dover, N. H.

Winship Mfg. Co., Racine, Wis.

Sand Sifting Machines

(See Sand Sifters)

Sander & Boring Machines

Bentel & Margedant Co. (Flexible Arm), Hamilton, O.

Sanding & Polishing Machinery

Bentel & Margedant, Hamilton, O.

Bicknell Mfg. & Supply Co. ("Bicknell's" Belt), Janesville, Wis.

Fischer E. Machine Works (Double Disc Sander for Box Factories, etc.), 710 Carroll av., Chicago, Ill.

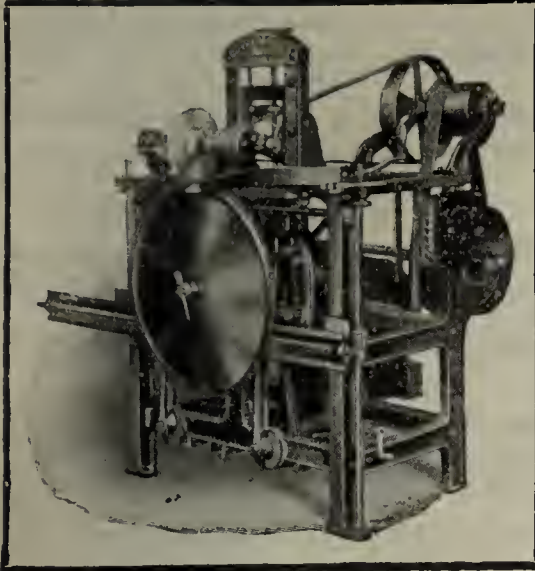
West St. Louis Machine & Tool Co., 606 Manchester av., St. Louis, Mo.

Sanitary Can-Making Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Sash Chain Machines

Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.



WE MAKE ALL KINDS OF

Saw sharpening machinery and tools, automatic and hand, for the care of Wood saws, band, gang and circular saws; both cross cut and rip.

Metal saw sharpeners for sharpening Bryant and Higley teeth also milling cutter teeth and hot saws.

Knife grinders, automatic, for all kinds of machine knives.

Complete filing-room equipments.

COVEL MFG. COMPANY

BENTON HARBOR, MICHIGAN

Sash, Door & Blind Machinery

American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill. Factory, Rockford, Ill.
Hayes, E. B. Machine Co., Oshkosh, Wis.
Hendy, Joshua Machine Works, San Francisco, Cal.
Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. H.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Sash Grooving Machines

Smith & Phillips Mfg. Co., 122 N Sangamon, Chicago, Ill.

Sash Trimmer Machines

Heald Machine Co. ("American" for Diamond & Irregular Sash), Worcester, Mass.

Saturating Machinery for Paper Mills

Haberkamp, Wm. Machine Works, 69 N Wells, Chicago, Ill.
Moore & White Co., Phila., Pa.

Sausage Making Machines

Smith's, Jno. E. Sons Co. ("Buffalo Silent"), 50 B'way, Buffalo, N. Y.

Saw Filing & Setting Machines

(See also File Room Machinery; also Band Saw Filing & Setting Machines)

Bishop, Geo. H. & Co., Lawrenceburg, Ind.
COVEL MFG. CO. (Power Setting), Benton Harbor, Mich. (See adv. index, end of book)

Detrick & Harvey Machine Co., Baltimore, Md.
Grimes & Harris (For Band Saws), Leominster, Mass.

Hanchett Swage Works ("Hanchett," for Band Saws), Big Rapids, Mich.

New Britain Machine Co. ("Equal Blow" Power Setting), New Britain, Conn.

Nutter, Barnes & Co. (Automatic), Boston, Mass.

Rotary File & Machine Co. ("New Reliable" Automatic, for Circular Saws), 589 Kent av, Brooklyn, N. Y.

Simonds Mfg. Co., Fitchburg, Mass.

Wright, Chas. E. & Co., Kenilworth, N. J.

Saw Fitting Machinery

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.

Saw Making Machinery

Hess Machine Works (Saw Setting & Cutting Machines), 2512 Callowhill, Phila., Pa.

Saw Mill Machinery

(See also Saw Mills, Various Kinds; also Shingle Mill Machinery; also Lath Mills & Bolt-ers; also Lath & Picket Mills)

Abbott, D. S. Co., Olean, N. Y.
Adams, W. T. Machine Co., Corinth, Miss.
Alabama Iron Works, Mobile, Ala.
Albany Iron Works, Albany, Ore.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Saw Mill Machinery Co., 50 Church, New York, & Hackettstown, N. J.

Ashland Iron Works, Ashland, Ore.

Atlanta Machine Works, Atlanta, Ga.

Aultman & Taylor Machinery Co., Mansfield, O.

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

Barnard Mfg. Co., Spokane, Wash.

Bartlett, A. F. & Co., Saginaw, Mich.

Bartley, Wm. & Son, Bartley, N. J.

Bartlett-Tewksbury Machine Mfg. Co., Birmingham, Ala.

BEGGS, JAMES & CO. (Dealers), 109 Liberty, New York. (See adv. index, end of book)

Burpee & Letson (Ltd.), South Bellingham, Wash.

Chambersburg Engineering Co., Chambersburg, Pa.

Chandler & Taylor Co., Indianapolis, Ind.

Chapman, T. M. Sons Co., Old Town, Me.

Chase Turbine Mfg. Co., Orange, Mass.

Chattanooga Machine Co., Chattanooga, Tenn.

Chickasaw Iron Works, Memphis, Tenn.

Clark Bros. Co., Belmont, N. Y.

Cole Mfg. Co., Lakeport, N. H.

Columbia Engineering Works, Portland, Ore.

Cook R. A., Stevens Point, Wis.

Corinth Engine & Boiler Works, Corinth, Miss.

Curtis & Co. Mfg. Co., St. Louis, Mo.

De Loach Mill Co., Bridgeport, Ala.

Diamond Iron Works (Full Line), Minneapolis, Minn.

DuBois Iron Works, DuBois, Pa.

Enterprise Mfg. Co., Columbiana, O.

Eureka Bark Mill Co., Lancaster, Pa.

Farquhar, A. B. Co. (Ltd.), York, Pa.

Filer & Stowell Co., Milwaukee, Wis.

Fisher & Davis, 1024 N. Main, St. Louis, Mo.

Frick Co., Waynesboro, Pa.

Fulton Engine Works, Los Angeles, Cal.

Gaar, Scott & Co., Richmond, Ind.

Gainesville Iron Works, Gainesville, Ga.

Garland, M. Co., Bay City, Mich.

Geiser Mfg. Co., Waynesboro, Pa.

Georgia Iron Works, Augusta, Ga.

Giddings & Lewis Mfg. Co., Fond du Lac, Wis.

Hayes, F. B. Machine Co., Oshkosh, Wis.

Heilman Machine Works, Evansville, Ind.

Hench & Dromgold Co., Inc., York, Pa.

Henderson, W. K., Iron Works & Supply Co., Shreveport, La.

Hendy, Joshua Machine Works, San Francisco, Cal.

Hill, W. B. & Co., Kalamazoo, Mich.

Howell, R. R. & Co., Minneapolis, Minn.

Humphrey Machine Co., Keene, N. H.

Jackson & Church Co., Saginaw, Mich.

Kehoe, Wm. & Sons, Savannah, Ga.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

Kline, Lewis T., Alpena, Mich.

Knight Mfg. Co., Canton, O.

Lake Shore Engine Works, Marquette, Mich.

Lane Mfg. Co., Montpelier, Vt.

Lexington Engine & Saw Mill Works, Lexington, Ky.

Liddell Co. (Inc.), Charlotte, N. C.

Lufkin Foundry & Machine Co., Lufkin, Tex.

Lombard Iron Works & Supply Co., Augusta, Ga.

Lyon Iron Works, Greene, N. Y.

McDonough Mfg. Co., Eau Claire, Wis.

Mallory Bros. Machinery Co., Macon, Ga.

Manistee Iron Works, Manistee, Mich.

Marinette Iron Works Mfg. Co., Marinette, Wis.

Mason, C. Z., Olympia, Wash.

Mecklenburg Iron Works, Charlotte, N. C.

Memphis Machine Works, Memphis, Tenn.

Moltz, Jacob J., Williamsport, Pa.

Moravia Mfg. Co., Moravia, N. Y.

Morgan & Vorce (Portable), Warwick, Mass.

Murray, D. J. Mfg. Co., Wausau, Wis.

Murray Iron Works Co., Burlington, Ia.

Myrick Machine Co., Olcan, N. Y.

North Alabama Engineering Co., New Decatur, Ala.

Phoenix Iron Works, Portland, Ore.

Phoenix Mfg. Co., Eau Claire, Wis.

Port Huron Engine & Thresher Co., Port Huron, Mich.

Portland Iron Works, Portland, Ore.

Prescott Co., Menominee, Mich.

Robinson & Co., Richmond, Ind.

Russell & Co., Massillon, O.

Salem Iron Works, Winston Salem, N. C.

Sinker-Davis Co., Indianapolis, Ind.

Smith, Myers & Schuler Co., Cincinnati, O.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Soule Steam Feed Works (Steam Feeds, Dogs, Dollies, Stackers, Conveyors, etc.), Meridian, Miss.

Standard Saw Mill Machinery Co., Erie, Pa.

Stearns Mfg. Co., Erie, Pa.

Sumner Iron Works, Everett, Wash.

Trevor Mfg. Co. (Short Log), Lockport, N. Y.

Union Iron Works, Bangor, Me.

Vulcan Iron Works, 505 Mission, San Francisco, Cal.

Vulcan Iron Works Co., Seattle, Wash.

Wheland Machine Works, Chattanooga, Tenn.

Whitney & Whitney (Portable), Warwick, Mass.

Wickes Bros., Saginaw, Mich.

Wilkin-Challoner Co., Oshkosh, Wis.

Wisconsin Engine Co., Corliss, Wis.

Saw Mill Machinery (Elevating & Conveying)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Saw Setting Machines

(See Saw Filing & Setting Machines; also Band Saw Filing & Setting Machines; also File Room Machinery)

Saw Sharpening Machines

(See also Sharpeners, Saw; also Band Saw Filing & Setting Machines; also Saw Filing & Setting Machines)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Cochrane-Bly Co., Rochester, N. Y.

COVEL MFG. CO. (For Automatic Band, Gang, Circular & Metal Saws, etc.). Benton Harbor, Mich. (See adv. index, end of book)

Crown Iron Works Co. ("Blackmer"), Minneapolis, Minn.

Diamond Machine Co., Providence, R. I.

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Espen-Lucas Machine Works (Power, Automatic), 342 N 15th, Phila., Pa.

Fairbanks, E. & T. Co., St. Johnsbury, Vt.

Higley Machine Co., Croton Falls, N. Y.
 Hunter Saw & Machine Co., Pittsburg, Pa.
 Newton Machine Tool Works (Inc.), 2347 Vine,
 Phila., Pa.
 Nutter, Barnes & Co. (14 to 30-in. Automatic),
 326 A, Boston, Mass.
 Quincy-Manchester-Sargent Co., Plainfield, N. J.
 Rogers, Saml. C. & Co. ("Buffalo" Band &
 Circular), 10 Lock, Buffalo, N. Y.
 Rotary File & Machine Co. (Automatic for
 Band & Circular Saws), 589 Kent av, Brook-
 lyn, N. Y.

Scarfig Machines

Buffalo Steam Roller Co., Buffalo, N. Y.
 United Engineering & Foundry Co. (Movable
 Motor Driven for Pipe & Tube Mills), Pitts-
 burg, Pa.

Screening Machinery

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

Screw Cap Rolling Machines

American Can Co. ("Rudolph" & "Krummel"
 Automatic), 135 Adams, Chicago, Ill.

Screw Cutting Machines

Automatic Machine Co., Bridgeport, Conn.
NATIONAL-ACME MFG. CO., Clevel-
land, O. (See adv. index, end of book)
 Potter & Johnson Machine Co., Pawtucket, R. I.
WELLS BROS. CO., Greenfield, Mass.
 (See adv. index, end of book)
 Wiley & Russell Mfg. Co. ("Green River"),
 Greenfield, Mass.

Screw Driving Machines

Reynolds Machine Co. (Automatic Power),
 Rock Island, Ill.

Screw Heading Machines

Cook, Asa S. Co., Hartford, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.

Screw Machines

(See also Lathes, Turret)

BLISS, E. W. CO. (Sheet Metal), 19
Adams, Brooklyn, N. Y. (See adv. index,
 end of book)
 Brown & Sharpe Mfg. Co. (Plain Wire Feed,
 Automatic, etc.), Providence, R. I.
 Cleveland Automatic Machine Co. (Automatic),
 131 2d av, Cleveland, O.
 Drees Machine Tool Co., Cincinnati, O.
 Davis Sewing Machine Co. (Automatic, Multi-
 ple Spindle), Dayton, O.
 Fay & Scott (Hand), Dexter, Me.
FREVERT MACHINERY CO., 18 Dey,
New York. (See adv. index, end of book)
 Garvin Machine Co., 137 Varick, New York
 Hartford Machine Screw Co. (Automatic,
 Threading), Hartford, Conn.
 Jones & Lamson Machine Co., Springfield, Vt.
 Landis Machine Co., Waynesboro, Pa.

Meriden Machine Tool Co., Meriden, Conn.
NATIONAL-ACME MFG. CO. ("Acme")
 Automatic Multiple Spindle; Special At-
 tachments for Side Drilling, Side Milling
 & End Milling), Cleveland, O. (See adv.
 index, end of book)

NIAGARA MACHINE & TOOL WKS.,
 (Sheet metal), Buffalo, N. Y. (See adv.
 index, end of book)

Niles-Bement-Pond Co. (Automatic), 111 B'way,
 New York
 Pratt & Whitney Co. (Automatic Shaping),
 Hartford, Conn.

PRENTISS TOOL & SUPPLY CO., 115
 Liberty, New York. (See adv. index &
 branch offices, end of book)

Smurr & Kamen Machine Co. (Plain Head),
 97 S Clinton, Chicago, Ill.

STRONG, CARLISLE & HAMMOND
 Co., 336-344 Frankfort av, N W, Clevel-
 land, O. (See adv. index, end of book)
 Warner & Swasey Co. (Turret), Cleveland, O.
 Windsor Machine Co. ("Gridley" Automatic),
 Windsor, Vt.

Screw Machines (Automatic)

BLISS, E. W. CO. (Sheet Metal), 19
 Adams, Brooklyn, N. Y. (See adv. index,
 end of book)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Cleveland Automatic Machine Co., Cleveland, O.
 Hartford Machine Screw Co. (Turning &
 Threading), Hartford, Conn.

NATIONAL-ACME MFG. CO., Clevel-
land, O. (See adv. index, end of book)
 Peerless Automatic Machine Co., Cleveland, O.
 Pratt & Whitney Co. (With Magazine Attach-
 ment, etc.), Hartford, Conn.
 Universal Machine Screw Co., Hartford, Conn.
 Wells, F. E. & Son Co., Greenfield, Mass.
 Windsor Machine Co. ("Gridley"), Windsor, Vt.

Screw Machines (Gimlet Pointing, Coach)

Manville, E. J. Machine Co., Waterbury, Conn.
 Pawtucket Mfg. Co., Pawtucket, R. I.

Screw Machines (Double Turret Hand)

Garvin Machine Co., 137 Varick, New York.

Screw Machines (Hand)

Bardons & Oliver, 1133 W 9th, Cleveland, O.
BLISS, E. W. CO. (Sheet Metal), 19
 Adams, Brooklyn, N. Y. (See adv. index,
 end of book)
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Drees Machine Tool Co., Cincinnati, O.
 Fay & Scott, Dexter, Me.
 Foster-Kimball Co., Elkhart, Ind.
 Garvin Machine Co., Spring & Varick, New
 York
 Pratt & Whitney Co., Hartford, Conn.
 Warner & Swasey Co., Cleveland, O.
 Windsor Machine Co., Windsor, Vt.

Screw Machines (Multiple Spindle)
NATIONAL-ACME MFG. CO., Clevel-
land, O. (See adv. index, end of book)

Screw Making Machines (Automatic)
NATIONAL-ACME MFG. CO., Clevel-
land, O. (See adv. index, end of book)

Screw Machines (Sheet Metal)
BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Screw Polishing Machines

Brown & Sharpe Mfg. Co., Providence, R. I.

Screw Shaving Machines

Brown & Sharpe Mfg. Co., Providence, R. I.
 Garvin Machine Co., 137 Varick, New York
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Potter & Johnson (Shaving & Turning), Paw-
 tucket, R. I.
 Pratt & Whitney Co., Hartford, Conn.

Screw Slotting Machines

(See also Slotting Machines)

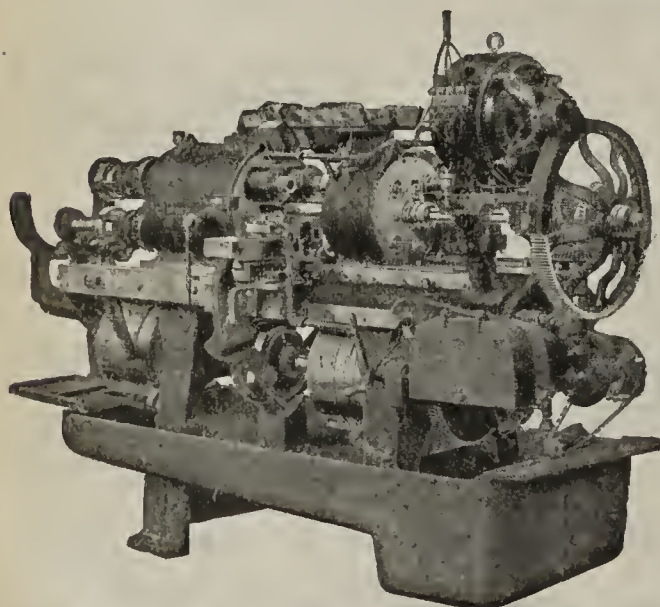
Brown & Sharpe Mfg. Co., Providence, R. I.
 Davis Sewing Machine Co. (Automatic), Day-
 ton, O.
 Garvin Machine Co., 137 Varick, New York
 Grant Mfg. & Machine Co., Bridgeport, Conn.
 Hartford Machine Screw Co., Hartford, Conn.
 Hubbell, Harvey, Bridgeport, Conn.
 Manville, E. J., Machine Co., Waterbury, Conn.
NATIONAL-ACME MFG. CO., Clevel-
land, O. (See adv. index, end of book)
 Pratt & Whitney Co., Hartford, Conn.
 Taylor & Feun Co. (Automatic, 15,000 to
 18,000 Screws a Day), 54 Arch, Hartford,
 Conn.

Screw Thread Rolling Machines

Blake & Johnson Co., Waterbury, Conn.
 Leffler, Chas. & Co. (For Sheet Metal Screws,
 etc.), 63 Clymer, Brooklyn, N. Y.
 Manville, E. J. Machine Co. (Automatic),
 Waterbury, Conn.
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.

Scroll Sawing Machines

American Woodworking Machinery Co., Roches-
 ter, N. Y., & West st bldg, New York
 Atlantic Works (Inc.), 2821 Oakford, Phila.,
 Pa.
 Barnes, W. F. & Jno. Co. (Foot & Power),
 Bench, H. W., Montrose, Pa. Rockford, Ill.
 Bentel & Margedant Co., Hamilton, O.
 Colladay, Jos. O., 624 Race, Phila., Pa.
 Cordesman, Recltin Co., Cincinnati, O.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Frank Machinery Co., Buffalo, N. Y.



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 WAREHOUSES: New York, 77 White St. Chicago, 56 W. Washington St.

Grammes, L. F. & Sons, Allentown, Pa.
Power, L. & Co., 20 S 23d, Phila., Pa.
Seneca Falls Mfg. Co. (Foot & Power), Seneca Falls, N. Y.
Seymour & Whitlock, Newark, N. J.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Scythe Rolling Machines

Birmingham Iron Foundry, Derby, Conn.

Seaming Machines

BLISS, E. W. CO. (Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. Index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Seat Back Bending Machinery

Bentel & Margedant Co., Hamilton, O.

Seed Cleaning & Separating Machinery

(See Grain Cleaning & Grading Machinery)

Seine Making Machinery

(See Netting Machines)

Separating Machinery (Cotton Seed)

Buckeye Iron & Brass Works, Dayton, O.

Sewer Cleaning Machines

Healey Sewer Machine & Construction Co., 15 Beacon, Boston, Mass.
Shannon, J. H. & R. Co. ("Shannon"), 533 Bergen av, Jersey City, N. J.

Sewer Excavating Machinery

(See Sewer & Trench Excavating Machines)

Sewer Pipe Machinery

American Clay Machinery Co., Bucyrus, O.
Davis-Price Fdy. & Machine Co., New Cumberland, W. Va.
Freese, E. M. & Co., Gallon, O.
Means Foundry & Machine Co., Steubenville, O.
Stevenson Co., Wellsville, O.
Taplin-Rice-Clerkin Co., Akron, O.
Turner, Vaughan & Taylor Co., Cuyahoga Falls, Ohio

Sewer & Trench Excavating Machines

Bucyrus Co. (Steam Shovel Type), South Milwaukee, Wis.
Carson French Machine Co., 16 Dorrance, Boston, Mass.
Fairbanks Steam Shovel Co., Marlon, O.
Heffron Trenching Co. ("Heffron" Trenching Machines), Neave bldg, Cleveland, O.
Municipal Engineering & Contracting Co. ("Chicago"), R'y Exch bldg, Chicago, Ill.
Noble, H. A. (Odorless Excavating), 203 Dock, Phila., Pa.
Parsons, G. W. Co. ("Parson's" Newton, Ia.
Potter Mfg. Co., Indianapolis, Ind.
SHAW, WILLIS CO. (Sewer & Trench Machines), 171 La Salle, Chicago, Ill. (See adv. index, end of book)

Sewing Machines

(For page number consult Index of Contents)

Shading Machines (Lithographers' & Photo-Engravers')

American Shading Machine Co., 164 Rans, Buffalo, N. Y.

Shaft Boring Machines

Pratt & Whitney Co., Hartford, Conn.

Shaft Polishing Machines

Brightman Mfg. Co., Shelby, O.

Shaft Straightening Machines

Brightman Mfg. Co., Shelby, O.
Fitchburg Machine Works (Shaft, etc.), Fitchburg, Mass.
Loegemann Bros. Co. ("Loegemann," Hydraulic Shaft & Pipe Straightener), Milwaukee, Wis.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Putnam Machine Co., Fitchburg, Mass.
Sellers, Wm. & Co. (Inc.) (Hand or Power), 1000 Hamilton, Phila., Pa.
Springfield Machine Tool Co., Springfield, O.

Shaft Turning Machines

(See Lathes, Shaft Turning)

Shafting Machinery

Brightman Mfg. Co., Shelby, O.
Franklin Machine Co., Providence, R. I.

Shaping Machines (Metal)

American Tool Works Co. (Crank & Geared), Cincinnati, O.
Barker, Wm. A. & Co. (Crank & Geared), e Pioneer & Culvert, Cincinnati, O.
Boynton & Plummer (Hand & Power), Worcester, Mass.
Cincinnati Shaper Co. (Crank, Geared, Traverser & Open Slide), Cincinnati, O.
Fellows Gear Shaper Co. (Gear), Springfield, Vt.
Fitchburg Machine Works, Fitchburg, Mass.
Flather & Co., Nashua, N. H.

FREVERT MACHINERY CO., 18 Dec,

New York. (See adv. Index, end of book)
Garvin Machine Co., 137 Varlek, New York
Gould & Eberhardt (Double Triple Quick Stroke Extension Base Shaper), Newark, N. J.
Hamilton Machine Tool Co. (10, 20 & 24-inch), Hamilton, Ohio

Hendey Machine Co. (Pillar), Torrington, Conn.
Juengst, Geo. & Sons (Crank), Croton Falls, N. Y.
Kelly, R. A. Co. (Crank), Xenia, O.
Lutter & Gies ("Milwaukee," 16 & 24-inch Back Geared Crank Shapers), Milwaukee, Wis.

Manning, Maxwell & Moore, 85 Liberty, New York
Morton Mfg. Co. (Draw Cut), Muskegon Heights, Mich.

Newark Gear Cutting Machine Co., Newark, N. J.
New Haven Mfg. Co., New Haven, Conn.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.

Niles-Bement-Pond Co., 111 B'way, New York

Perkins Machine Co. (Friction), Warren, Mass.
Potter & Johnson Machine Co. (Universal), Pawtucket, R. I.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. Index & branch offices, end of book)

Putnam Machine Co., Fitchburg, Mass.
Queen City Machine Tool Co., Cincinnati, O.
Reed, J. B. (Triple Gear, etc.), Calro, Ill.
Rhodes, L. E. (Crank), Hartford, Conn.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Shepard Lathe Co., 129 W 2d, Cincinnati, O.
Smith & Mills (Crank & Geared), e Spring Grove av & Township, Cincinnati, O.
Springfield Machine Tool Co. (Crank & Geared), Springfield, O.

Steptoe, Jno. Shaper Co. (Crank & Geared), 2919 Colerain av, Cincinnati, O.
Stockbridge Machine Co. (Two-Piece Crank & Geared Drive), Worcester, Mass.

Walcott & Wood Machine Tool Co. (15, 22, 26, 30, 34 & 48-inch Geared & 16 & 18-inch Elliptical Gear Crank Shaper, with Back Gear; also 20 & 24-inch Elliptical Gear Crank), Jackson, Mich.

WALSH'S SONS & CO., Newark, N. J. (See adv. Index, end of book)

Shaping Machines for Steel Foundries

Wetherill, R. & Co., Chester, Pa.

Shaping Machines (Wood)

(See also Wood Carving Machines)

ADVANCE MACHINERY CO., Toledo, O. (See adv. index, end of book)

American Steam Pump Co. (Spindle Shapers, etc.), Battle Creek, Mich.
American Woodworking Machinery Co., Rochester, N. Y., & West St bldg, New York
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.
Colladay, Joseph O., 656 Race, Phila., Pa.

Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rehtin Co., Cincinnati, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Hayes, E. B. Machine Co. (Double End), Oshkosh, Wis.

Heath, W. A. Machine Co., Lestershire, N. Y.
Klotz Machine Co., Sandusky, O.
Ober Mfg. Co. (Combined Shaper, Saw & Jointer), Chagrin Falls, O.

Porter, C. O. & A. D., Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Yerkes & Finan Woodworking Machine Co. (Double Spindle Shaper, etc.), St. Louis, Mo.

Sheep Shearing Machines

American Shearer Mfg. Co. ("Priest's"), Nashua, N. H.

CHICAGO FLEXIBLE SHAFT CO. ("Stewart," Ball Bearing), La Salle av & Ontario, Chicago, Ill. (See adv. Index & branch offices, end of book)

COATES CLIPPER MFG. CO. ("Coates" Flexible Shaft), Worcester, Mass. (See adv. index, end of book)

Gillette Clipping Machine Co., 110 W 32d, New York

Goes, Oscar & Co. ("Allen" & "Pioneer-American"), 16 S Canal, Chicago, Ill.

IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.

Sheet Lead Rolling Machines

Farrel Foundry & Machine Co., Ansonia, Conn.

Sheet Metal Forming Machinery

(See also Sheet Metal Workers' Machines & Tools)

Baird Machine Co., Oakville, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, New York. (See adv. index, end of book)**CANTON FOUNDRY & MACHINE CO.,** Canton, O. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.**Sheet Metal Lath Machines****BLISS, E. W. CO., 19 Adams, Brooklyn, New York.** (See adv. index, end of book)

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Sheet Metal Workers' Machines & Tools

(See also Punching Machines, Various Kinds; also Presses, Various Kinds; also Shears, Various Kinds)

Adrian Machine Works, 254 Van Brunt, Brooklyn, N. Y.

American Can Co., Merchants' Loan & Trust bldg, Chicago, Ill.

American Hdw. Mfg. Co., Ottawa, Ill.

Armor-Clad Mfg. Co., Canton, O.

Automatic Specialty Co., Cincinnati, O.

Ayars Machine Co., Salem, N. J.

Berger Bros. Co., 237 Arch, Phila., Pa.

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Bertsch & Co., Cambridge City, Ind.

Brown, F. S. & G. L., Baltimore, Md.

Burritt, O. W. & Bros., Weedsport, N. Y.

CANTON FOUNDRY & MACHINE CO., ("Universal"), Canton, O. (See adv. index, end of book)

Consolidated Press & Tool Co., Hastings, Mich.

Double Truss Cornice Brake Co., Buffalo, N. Y.

Dreis & Krump Mfg. Co., 3214 S Halsted, Chicago, Ill.

Eclipse Machine Co. ("Eclipse," Gutter Beading & Forming Machines), Troy, N. Y.

Ferracute Machine Co., Bridgeton, N. J.

HEARTLEY MACHINE, VARIETY

Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Keene, Geo. C. & Co., Cincinnati, O.

Leffer, Chas. & Co., 63 Clymer, Brooklyn, N. Y.

Lethwaite, T. H., 413 E. 31st, New York.

Loy & Nawrath Co., Newark, N. J.

NIAGARA MACHINE & TOOL WKS.,

Buffalo, N. Y. (See adv. index, end of book)

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Packham Crimper Co., Mechanicsburg, O.

Peck, Stow & Wilcox Co., Southington, Conn.

Perkins Machine Co., Warren, Mass.

Pocock, Oliver (Forming Machine), 1042 Harriet, Cincinnati, O.

PRENTISS TOOL & SUPPLY CO., 115

Liberty, New York. (See adv. index & branch offices, end of book)

Robinson, J. M. Mfg. Co., Cincinnati, O.

Swaine, Fred. J. Co., St. Louis, Mo.

Toledo Machine & Tool Co., Toledo, O.

United Shoe Machinery Co., 205 Lincoln, Boston, Mass. Works: Beverly, Mass.

V. & O. Press Co., Glendale Station, Long Island, N. Y.

Weiss, H. & Co., 20 Cliff, New York

Whelan, D. J. (Est. of), Troy, N. Y.

Wold, Torris & Co., 66 N Jefferson, Chicago, Ill.

Zeh & Hahnemann, Newark, N. J.

Sheet Mill Machinery

(See also Rolling Mill Machinery)

Aetna Foundry & Machine Co., Warren, O.

Braddock Machine & Mfg. Co., Braddock, Pa.

United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Sheet Pasting Machines

Biessing, Louis (For Strawboard or Pulp Sheet Pasting), Jackson, Mich.

Sheet Pile Driving Machines**INGERSOLL-RAND CO., 11 B'way,**

New York. (See adv. index & branch offices, end of book)

Sheeting Machines (Paper, Cloth, Leather, Etc.)**KNOWLTON, M. D. CO., Rochester,**

N. Y. (See adv. index & branch offices, end of book)

Shingle Mill Machinery

Abbott, D. S. Co., Olean, N. Y.

Adams, S. & Son (Saw & Shingle Mill Machinery), Rome, N. Y.

Adams, W. T. Machine Co., Corinth, Miss.

American Sawmill Machinery Co. ("American" & "Climax"), 50 Church, New York, Works, Hackettstown, N. J.

Austin & Son, Grand Rapids, Mich.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Bolton Lath & Shingle Machinery Co., Minneapolis, Minn.

Butterworth & Loew, Grand Rapids, Mich.

Challoner's, Geo. Sons Co., Oshkosh, Wis.

Chase Turbine Mfg. Co., Orange, Mass.

Cook, R. A., Stevens Point, Wis.

Curtis & Co. Mfg. Co. ("Dixie"), St. Louis, Mo.

De Loach Mill Mfg. Co., Bridgeport, Ala.

Farquhar, A. B. Co. (Ltd.), York, Pa.

Georgia Foundry & Machine Works, Rome, Ga.

Gerlach, Peter Co., Cleveland, O.

Hendy, Joshua Machine Works, San Francisco, Cal.

Howell, R. R. & Co., Minneapolis, Minn.

Lane Mfg. Co., Montpelier, Vt.

Lovell, F. S. Machine Works, Fitchburg, Mass.

Lyon Iron Works, Greene, N. Y.

Mason, C. Z., Olympia, Wash.

Murray, D. J. Mfg. Co., Wausau, Wis.

Novelty Iron Works (G. E. Davis, Prop.), ("Triumph," "Evarts"), Dubuque, Iowa

Perkins & Co., Grand Rapids, Mich.

Phoenix Mfg. Co., Eau Claire, Wis.

Rochester Barrel Machine Works, Rochester, N. Y.

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.

Street Bros. Machine Works, Chattanooga, Tenn.

Sumner Iron Works, Everett, Wash.

Trevor Mfg. Co., Lockport, N. Y.

Union Iron Works, Bangor, Me.

United States Machine Co., Williamsport, Pa.

Vulcan Iron Works Co., Seattle, Wash.

Walker-Challoner Co., Oshkosh, Wis.

Wheland Machine Works, Chattanooga, Tenn.

Wickes Bros., Saginaw, Mich.

Ship Building Machinery**MORGAN ENGINEERING CO., Alliance, O.** (See adv. index & branch offices, end of book)**Shipping Tag Machines**

Toledo Machine & Tool Co., Toledo, O.

Shoe Machinery

Adams, Jno. J., Worcester, Mass.

Allen Machine Co., Haverhill, Mass.

Bartlett, E. E., 326 A, Boston, Mass.

Bresnahan Shoe Machinery Co., Lynn, Mass.

Carver Cotton Gin Co., East Bridgewater, Mass.

Champion Shoe Machinery Co. (Wax Thread Sewing or Stitching Machine, etc.), St. Louis, Mo.

Cilley, W. W. & Co. (Stitchers), Lynn, Mass.

Freeman & Duckworth, Lawrence, Mass.

Freeman, Louis G., 212 E 9th, Cincinnati, O.

Heald Machine Co. (Crimping Machines), Worcester, Mass.

Keighley, Wm. B., Vineland, N. J.

King, L. B. (Stitchers), Lynn, Mass.

Lufkin, R. H. (Vamp Marking Machines), 38 Chardon, Boston, Mass.

Mitchell, Robert Machinery Co. (Electrical Shoe Ironers, Wax Pots, etc.), 11 Jefferson av, Detroit, Mich.

Parker Mfg. Co., Boston, Mass.

Rogers, John F. (Vamp Marking Machines), Belfast, Me.

Ross-Mayer Mfg. Co. (Heel Building Machines), Cincinnati, Ohio.

Seelye Mfg. Co., 118 South, Boston, Mass.

Shrines, Hannah A., Lynn, Mass.

Stanbon, Chas. P. & Co., Lynn, Mass.

Stimpson, Edwin B. Co., (& Supplies), 31 Spruce, New York

Stanley Co., Lawrence, Mass.

Tower Bros., Hudson, Mass.

Treen-Sawyer Shoe Machinery Co. (Stitchers), Lynn, Mass.

United Shoe Machinery Co., 205 Lincoln, Boston, Mass. Works: Lynn, Mass., & Winchester, Mass.

Wellman Co., Medford, Mass.

Shoe Peg Machinery

Cowdrey & Co., Fitchburg, Mass.

Humphrey Machine Co., Keene, N. H.

Shoe Shining Machines (Automatic)

Westmoreland Automatic Machine Co., Irwin, Pa.

Shop Sawing Machines (Iron)

(See Cold-Saw Cutting-Off Machines; also Hot Sawing Machines; also Rail Sawing Machines)

Shot Machines

Fanning, J. P., 678 Jefferson av, B'klyn, N. Y.

Shovel Handle Machinery

Union Foundry & Machine Co. (Handle Forming & Bending), Pittsburg, Pa.

MACHINERY for WORKING SHEET METAL

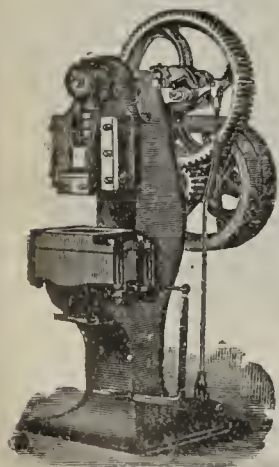
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Niagara Machine & Tool Works, Buffalo, N. Y.



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Bertsch & Co., Cambridge City, Ind.
 Frankford Foundry & Machine Works, Frank-
 lin, Phila., Pa.
 Union Foundry & Machine Co., Pittsburg, Pa.
 West St. Louis Machine & Tool Co. (Also
 Sanding & Polishing Machines), 606 Man-
 chester av., St. Louis, Mo.

Shuttle Machinery

Carey, W. W., 514 B'way, Lowell, Mass.

Side Sawing Machines

Connells & Dengler Machine Co. (Self Center-
 ing, etc.), Rochester, N. Y.

Sifting Machinery

Great Western Mfg. Co. (For Flour Mills),
 Leavenworth, Kans.
 Ross, Chas. & Son Co., 148 Classon av., Brook-
 lyn, N. Y.
SPROUT, WALDRON & CO., Muncy,
 Pa. (See adv. index, end of book)

Sizing Machines

United Engineering & Foundry Co. (for 3/4 to 4-
 inch Butt Weld Pipe), Farmers' Bank bldg.,
 Pittsburg, Pa.

Sizing or Spooling Machines

Lang, E. M. Co. (Canners), Portland, Me.

Skewer Machinery

Smith, H. B. Machine Co., Smithville, N. J.

**Skidding Machines (Steam Log
Skidders)**

RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)

Skiving Machines (Strawboard)

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. index & branch offices,
 end of book)

Slabbing Machines

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
 Phila., Pa.

Slack Barrel Machinery

(See Barrel, Keg, Stave & Heading Machinery)

Slag & Cinder Machines

Heyl & Patterson (For Blast Furnaces), Pitts-
 burg, Pa.

Slate Dressing Machines

FLORY, S. MFG. CO., Bangor, Pa.,
 & 149 B'way, New York. (See adv. index,
 end of book)

**Slate Drilling & Countersinking
Machines**

**FLORY S. MFG. CO. ("Flory" Pow-
 er), Bangor, Pa., & 149 B'way, New York.**
 (See adv. index, end of book)

Slate Grooving Machines

FLORY S. MFG. CO. (Hand Power),
 Bangor, Pa., & 149 B'way, New York. (See
 adv. index, end of book)

Slate Machinery

FLORY, S. MFG. CO., Bangor, Pa.,
 & 149 B'way, New York. (See adv. index,
 end of book)
 Fulmer, J. H. ("Universal" Slate Punches &
 Shapes), Nazareth, Pa.
 Lincoln Iron Works, Rutland, Vt.
 Patch, F. R. Mfg. Co., Rutland, Vt.
 Ruggles Machine Co. (Planers, Saws, Groovers,
 Trimmers, Drills, etc.), Poultney, Vt.

Slaughter House Machinery

(See also Packing House Machinery)

Smith, Theo. & Sons Co. (Digestors, etc.), ft
 of Essex, Jersey City, N. J.

Slicing Machines (Bread, Meat, Etc.)

Arcade Mfg. Co. (Also for Vegetables, Fruits,
 etc.), Freeport, Ill.
 Horton & Link Mfg. Co. ("Gem" for Bread,
 Meat, Vegetables, etc.), Herkimer, N. Y.

Slip Joint Machines

CANTON FOUNDRY & MACHINE CO.
 ("Universal"), Canton, O. (See adv. index,
 end of book)

Slitting Machines

(See also Sheet Metal Workers' Machines &
 Tools)

Blake & Johnson Co., Waterbury, Conn.
BLISS, E. W. CO. (Sheet Metal), 19
 Adams, Brooklyn, N. Y. (See adv. index,
 end of book)
HEARTLEY MACHINE, VARIETY
 Iron & Tool Works, Toledo, O. (See adv.
 index, end of book)

Kidder Press Co., Dover, N. H.
 Lefler, Chas. & Co. (For Can Makers, etc.),
 63 Clymer, Brooklyn, N. Y.
NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of
 book)

Norton-Jones Machine Tool Works, Plainville,
 Conn.
 Standard Machinery Co. (Gang Patterns, etc.),
 Providence, R. I.
 Toledo Machine & Tool Co. (Gang Pattern,
 etc.), Toledo, O.
 Waterbury Farrel Foundry & Machine Co.,
 Waterbury, Conn.
 Waterbury Machine Co. (Gang Slitters for
 Brass Goods, etc.), Waterbury, Conn.

Slot Machines

(See Vending Machines)

Slotting Machines

(See also Screw Slotting Machines)

Baker Bros., Toledo, O.
 Betts Machine Co. (8 to 26-inch stroke), Wil-
 mington, Del.
 Clough, R. M., Tolland, Conn.
 Dill, T. C. Machine Co. (Inc.), Phila., Pa.
 Espen-Lucas Machine Works (Stationary &
 Portable), 342 N 15th, Phila., Pa.
FREVERT MACHINERY CO., 18 Dey,
 New York. (See adv. index, end of book)
 Garvin Machine Co., 137 Varick, New York
 Grant Mfg. & Machine Co., Bridgeport, Conn.
 Hartford Machine Screw Co., Hartford, Conn.
 Hendy, Joshua Machine Works, San Francisco.
 Hendey Machine Co., Torrington, Conn. Cal.
 High Duty Saw & Tool Co. (Cold Saw), Eddy-
 stone, Pa.
 Morton Mfg. Co. (Portable), Muskegon Heights,
 Mich.
 New Haven Mfg. Co., New Haven, Conn.
 Newton Machine Tool Works, 2347 Vine, Phila.,
 Pa.
 Niles Bement-Pond Co. (Crank, Geared &
 Frame), 111 B'way, New York
 Putnam Machine Co., Fitchburg, Mass.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
 Phila., Pa.
 Waterbury-Farrel Foundry & Machine Co.
 (Screw Head), Waterbury, Conn.

**Slotting Machines (Locomotive
Frame)**

Niles-Bement-Pond Co., 111 B'way, New York
 Sellers, William & Co., 1600 Hamilton, Phila.,
 Pa.

**Slotting Machines (Paper, Cloth,
Leather, Etc.)**

KNOWLTON, M. D. CO., Rochester,
 N. Y. (See adv. index & branch offices,
 end of book)

Slotting Machines (Portable)

Espen-Lucas Machine Works, Phila., Pa.
 Morton Mfg. Co., Muskegon Heights, Mich.
 Newton Machine Tool Works (Inc.), Phila., Pa.
 Niles-Bement-Pond Co., 111 B'way, New York

Smashing Machinery

Sheridan, T. W. & C. B. Co. (Bookbinders), 56
 Duane, New York

Smelting Machinery

(See also Mining Machinery)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
 Colorado Iron Works Co., Denver, Col.
 Denver Engineering Works Co., Denver, Colo.
 Hendy, Joshua, Machine Works, San Francisco,
 Cal.
 Power & Mining Machinery Co., Cudahy, Wis.
 Salt Lake Engineering Works, Salt Lake City,
 Utah
 Silver, Hynum A. Foundry & Machine Co., Salt
 Lake City, Utah
 Traylor Engineering Co., Allentown, Pa.

Heartley Machine, Variety Iron and Tool Works

Manufacturer of
 Patent Specialties and Novelties.

Designer and Builder of
 Machines and Tools for Special Work.

Presses, Punches, Dies, Tools and Special Machinery

FOR SHEET METAL STAMPING and FORMING, Etc.

Pat. July 9, 1901

BICYCLE AND METAL WHEEL TOOLS

Power and Hand Punching and Shearing Machinery.
 PUNCH and DIE FORGING and SPECIALTIES, Etc.

EAVES TROUGH HANGERS, Seven Styles

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"HEARTLEY" GROUND MOLE TRAPS.

GEORGE W. HEARTLEY, Prop.

900, 902, 904, 906, 908 Summit Street, corner Locust, TOLEDO, OHIO



Smoke Test Machines

Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Beekman Sanitary Specialty Co., 101 Beckman, New York
Dumond, A. A. ("Dumond" Triplex Plumbing Test Apparatus), Rochester, N. Y.
Gunster & Forsyth, Scranton, Pa.
Knapp Mfg. Co., 20 Warren, New York
Vanderman Plumbing & Heating Co., Williamantic, Conn.

Smoked Beef Shaving Machines

Enterprise Mfg. Co. (of Pa.) ("Enterprise" Rotary), Phila., Pa.

Smokeless Powder Mixing Machines

Ross, Chas. & Son Co., 148 Clason av, Brooklyn, N. Y.

Snuff Factory Machinery

Girard Machine Works (Inc.), 2016 Girard av, Phila., Pa.

Soapmakers' Machinery

Blanchard Machine Co., Cambridge, Mass.
Blettner, Jos. B. & Co., 1976 Central av, Cincinnati, O.
Bowman, Walker, 39 Cortlandt, New York
Condon, Thos. F. & Co., 50 Church, New York
Dopp, W. H. Co., Buffalo, N. Y.
Dundon's San Francisco Iron Works, San Francisco, Cal.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Houchin, Alken Co. (Toilet, Laundry, etc.), 37 53d, Brooklyn, N. Y.
SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)
WETHERILL BROS. MACHINE CO. (Clippers & Cutters), Chester, Pa. (See adv. index, end of book)

Soap Mixing Machines

Blanchard Machine Co., Cambridge, Mass.
Dopp, W. H. Co., Buffalo, N. Y.
Dundon's San Francisco Iron Works, San Francisco, Cal.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Houchin, Alken Co., 37 53d, Brooklyn, N. Y.

Socket Threading Machines

Taylor-Wilson Mfg. Co. (For Pipe & Tube Mills), McKees Rocks, Pa.

Solder Cap Hemming Machines

BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)

Soldering Machines

Astoria Iron Works (Inc.) (Side Seam, Chain & Special), Astoria, Ore.
Benedict, L. ("Leiger" Lock Seam Body Forming & Soldering Machines), 128 S Clinton, Chicago, Ill.
BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)
Consolidated Press & Tool Co., 96 N Clinton, Chicago, Ill.
Fanning, J. P. (Triangular), 678 Jefferson av, Brooklyn, N. Y.
Ferracute Machine Co., Bridgeton, N. J.
Hubbard, W. H. Mfg. Co., Brooklyn, N. Y.
Lang, E. M. Co. (Wire, Drop & Stick, Single & Double Wire & Segment), Portland, Me.
Leffler, Chas. & Co., Brooklyn, N. Y.
Marquette, Jno. N., 507 S Eden, Baltimore, Md.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Sole Leather Rolling Machines

Baker, G. W. & Co., Wilmington, Del.

Sounding Machines

Hand, Jno. & Sons ("Sir Wm. Thompsons"), 222 Walnut, Phila., Pa.

Special Machinery

ABENDROTH & ROOT MFG. CO. (Made According to Specifications), Newburgh, N. Y. (See adv. index & branch offices, end of book)
Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

Aetna Foundry & Machine Co., Warren, O.
American & British Mfg. Co., Providence, R. I. & Bridgeport, Conn.
American Can Co., Merchants' Loan & Trust bldg, Chicago, Ill.
Atlantic Works, East Boston, Boston, Mass.
Automatic Machine Co., Bridgeport, Conn.
Automatic Specialty Co. (Paper Goods & Printing Machinery), 6th & Maymiller, Cincinnati, O.
Baker Bros., Toledo, O.
Barbour-Stockwell Co., Cambridge, Mass.
Beaman & Smith Co., Providence, R. I.
Bender, Ph. J. & Sons, 87 Frankfort, New York
Bentel & Margendant Co., Hamilton, O.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Bethlehem Steel Co. (Heavy), South Bethlehem, Pa.
Bigelow Co. (Special Heavy), New Haven, Conn.
Bilgram, Hugo, 1235 Spring Garden, Phila., Pa.
Birch & Birch, Crawfordsville, Ind.
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
Birmingham Iron Foundry (For Agricultural Implement Makers, etc.), Derby, Conn.
Black & Clawson Co., Hamilton, O.
BLISS, E. W. CO., 19 Adams, Brook-lyn, N. Y. (See adv. index, end of book)
Brandt, Edw. J. Dent Co., Watertown, Wis.
Bridgeford, Chas. (Heavy), 225 Mill, Rochester, N. Y.
Brooks, Chas. J., 27 Artizan, New Haven, Conn.
BROWN, A. & F. CO., 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
Brown, F. S. & G. L., Baltimore, Md.
Buebel Machine Works, New Orleans, La.
Budd & Ranney Mfg. Co., Columbus, O.
Buescher Band Instrument Co., Elkhart, Ind.
Buffalo Forge Co., 490 B'way, Buffalo, N. Y.
Buffalo, Steam Pump Co., 490 B'way, New York
Builders' Iron Foundry, Providence, R. I.
Cameron-Tennant Machine Wks., Richmond, Va.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Carroll Foundry & Machine Works, Bucyrus, O.
Carter & Hakes Machine Co., Winsted, Conn.
Chester Engineering & Machine Co., Chester, Pa.
Coffee Machine Co., Richmond, Va.
Cothar, Wm. U., Springfield, O.
Cook, Asa S. Co., Hartford, Conn.
Cook, Henry C. Co., Ansonia, Conn.
Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Coulter & McKenzie Machine Co., Bridgeport, Conn.
Cowdrey, C. H. Machine Works, Fitchburg, Mass.
Crescent Novelty Mfg. Co. (Also Experimental), 703 S B'way, St. Louis, Mo.
Currier, Cyrus & Sons, Newark, N. J.
Curtis & Marble Machine Co., Worcester, Mass.
Davis-Johnson Mfg. Co., 345 Canal, Chicago, Ill.
Davis, W. P. Machine Co., Rochester, N. Y.
Denne, H. C. Machine Co., Fitchburg, Mass.
Detrick & Harvey Machine Co., Baltimore, Md.
Dienelt & Eisenhard, 1308 N Howard, Phila., Pa.
DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index, & branch offices, end of book)
Dodge Bros., Detroit, Mich.
Dodge Machine Works, Syracuse, N. Y.
Eagle Tool & Machine Co. (Special Machinery & Tools), 519 Ann, Pittsburg, Pa.
Eastwood Wire Mfg. Co. (Heavy & Fine), Belleville, N. J.
Eckmeyer Machine Co. (Experimental, etc.), Yonkers, N. Y.
ELMES, CHAS. F. ENGINEERING Works (Mill s, Linseed & Oil Machinery), Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
Enterprise Machine Works, Richmond, Va.
FAWCUS MACHINE CO., 2820 Small-man, Pittsburg, Pa. (See adv. index, end of book)
Fischer Foundry & Machine Co. (Heavy), Ford City, Pa.
FOOTE BROS. GEAR & MACHINE CO. (Engineers & Machinists), 46 N Carpenter, Chicago, Ill. (See adv. index, end of book)
Franklin Machine Co., Providence, R. I.
GANSCHAW, WM. CO., 370 Washing-ton boul, Chicago, Ill. (See adv. index, end of book)
Gardam, Wm. & Son (Inc.), 221 Fulton, New York
Garvin Machine Co., 137 Varick, New York
Geler, P. A. Co., 5112 St. Clair av, N E Cleveland, O.
Girard Machine Works (Inc.) (Automatic & Special), 2016 Girard av, Phila., Pa.

Gisholt Machine Co. (Turret Lathes, Vertical & Horizontal Boring Mills & Tool Grinders), Madison, Wis.
Globe Machine & Stamping Co. (Machinery & Parts), 3868 Hamilton av, Cleveland, O.
Gould & Eberhardt, Newark, N. J.
Gregg Mfg. Co. (Foundry), 1318 W 4th, Cleveland, O.
Grimes, C. D. Machine Wks., Dayton, O.
Griswold, Geo. M., New Haven, Conn.
Harrington, Edwin Son & Co. (Inc.), 17th & Callowhill, Phila., Pa.
Hartz, Henry V. Co. (Inc.), Cleveland, O.
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
Hilbert Machine Co., Cincinnati, O.
Hofer Mfg. Co., Freeport, Ill.
Hurd & Haggli (Automatic Machinery & Experimental Work & Models), 316 Hudson, New York
Keagy & Lear Machine Co., Coshocton, O.
Kent Machine Works, 39 Gold, Brooklyn, N. Y.
Killy Mfg. Co. (Heavy), Cleveland, O.
KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)
Konigslow, E. Stamping & Tool Works (Light), 323 Champlain av, N W, Cleveland, O.
Langeller Mfg. Co., 67 Clifford, Providence, R. I.
Lazenby, F. A. & Co., Bush & Wilcombe, Baltimore, Md.
Leffler, Chas. & Co. (Experimental), 63 Clymer, Brooklyn, N. Y.
Love Bros. (Inc.), Aurora, Ill.
McCarthy Bros. & Ford (Electrical), Buffalo, N. Y.
Manahan, J. Archibald, 1907 Park av, New York
Manville Bros. Co., Waterbury, Conn.
Mesta Machine Co., Lewis bldg, Pittsburg, Pa.
Montague Iron Works, Montague, Mich.
Morris, I. P. Co. (Heavy), Beach & Ball, Phila., Pa.
Morris Engineering Co. (Heavy, Hydraulic & High Speed, etc.), 37th & Reed, Phila., Pa.
Mossberg, Frank Co. (Light Machinery & Tools), Attleboro, Mass.
Mossberg Wrench Co., Central Falls, R. I.
Mueller Machine Tool Co., Cincinnati, O.
National Automatic Tool Co., Dayton, O.
National Machine Co., Hartford, Conn.
NESTOR MFG. CO. (Inc.), 40 W 13th, New York. (See adv. index, end of book)
Newark Gear Cutting Machine Co., Newark, N. J.
Newbold, R. S. & Son Co., Norristown, Pa.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
Nilson, A. H. Machine Co., Bridgeport, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Nugent Tool Co., 2163 Central av, Cincinnati, Ohio
Pacific Iron Works (Inc.), Bridgeport, Conn.
Phila., Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.
Poole, J. Morton Co., Wilmington, Del.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Portland Co., Portland, Me.
Pratt & Whitney Co., Hartford, Conn.
Pringle & Brodie Machinery Co., 277 S Canal, Chicago, Ill.
Queen City Engineering Co., Buffalo, N. Y.
Richard Mfg. Co. (For Tubing, Sheet Metal & Wire & Rod), Bloomsburg, Pa.
Rittenhouse, Frank, Norristown, Pa.
Rosedale Foundry & Machine Co. (Heavy Rolling Mill, etc.), Pittsburg, Pa.
Ross Mfg. Co. (Tools, Dies, Hardware Specialties, etc.), Cleveland, O.
Rowland Machine Co., New Haven, Conn.
Royersford Foundry & Machine Co., Royersford, Pa.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
Salem Iron Works (Inc.) (Also Experimental, Including Details, Drawings, etc.), Winstonsalem, N. C.
Schutte & Koertling Co., 1251 N 12th, Phila., Pa.
Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.
Shaver Co., Springfield, O.
Shultz, Richard A. Co., 143 Ontario, Chicago, Ill.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. for Particulars Regarding the Manufacture of All Kinds of Special Machinery). (See adv. index, end of book)
Simonds Mfg. Co., Pittsburg, Pa.
Squier, Geo. L. Mfg. Co., 490 B'way, Buffalo, N. Y.
Stall, D. H. Co., Buffalo, N. Y.
Superior Tool & Supply Co., Cincinnati, O.
Taylor & Fenn Co. (Small Machinery & Specialty), 54 Arch, Hartford, Conn.
Taylor-Shantz Co., Rochester, N. Y.
Taylor-Wilson Mfg. Co., McKees Rocks, Pa.

Thurston Mfg. Co., Providence, R. I.
Torrington Mfg. Co. (Dies & Tools), Torrington, Conn.

Treadwell, M. H. Co., 90 West, New York
Trump Bros. Machine Co. (Light), Wilmington, Del.
Turner Machine Co., Newark, N. J.
United Engineering & Foundry Co. (For Rolling Mills & Tube Mills), Pittsburg, Pa.

VAN DORN & DUTTON CO. 2714 E
79th, S E Cleveland, O. (See adv. index, end of book)

VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge, W. Detroit, Mich. (See adv. index, end of book)

V. & O. Press Co., Glendale, L. I., N. Y.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Waterbury Machine Co., Waterbury, Conn.
Webster & Perks Tool Co., Springfield, O.
Wellman Co. (Automatic Machinery Designed & Constructed), Medford, Mass.

WETHERILL BROS. MACHINE CO., Chester, Pa. (See adv. index, end of book)

Willard Machine & Tool Co., Cincinnati, O.
Williams, White & Co., Moline, Ill.
Wilson, W. A. Machine Co., Rochester, N. Y.

Wishart-Burge Machine Works, 64 N Jefferson, Chicago, Ill.

Wold, Torris & Co. (For Sheet Metals), 66 N Jefferson, Chicago, Ill.

York Electric & Machine Co., York, Pa.

Spike Machinery

National Machinery Co. (Hand Feed, etc.), Tiffin, O.

Spinach Canners' Machinery

Judge Machine Co. (Mashers & Cookers), Baltimore, Md.

Huntley Mfg. Co. ("Monitor" Whirlpool Blanchers, Washers & Coolers), Silver Creek, N. Y.

Spindle Carving Machines

Porter, C. O. & A. D., Grand Rapids, Mich.

Spindle Drilling Machines

American Watch Tool Co. (Bench), Waltham, Mass.

Splitting Machines

(See also Leather Splitting Machines)

Long & Allstatter Co. (& Cross-Cutting Shears for Plate & Round or Flat Bar Iron or Steel, Belt, Motor or Steel Driven), Hamilton, O.

Spoke Machinery

(See Hub, Spoke & Rim Machinery)

Spoke Tenoning Machines

Silver Mfg. Co. ("Dole & Demings"), Salem, O.

Spool Stranding Machines

Watson Machine Co., Paterson, N. J.

Spool Stranding & Armoring Machines

Watson Machine Co., Paterson, N. J.

Spool & Bobbin Machinery

Cole Mfg. Co., Lakeport, N. H.
Defiance Machine Works, Defiance, O.
Goodspeed Machine Co., Wrentham, Mass.
Kline, Lewis T. (General Line), Alpena, Mich.
Wurkland, J. W. Barton, Vt.

Spoon & Fork Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Spraying Machines

(See also Paint Spraying Machines; also Pumps, Spray)

Dayton Supply Co. ("Nixon-Climax," for Lawn & Field), Dayton, O.

Eureka Pneumatic Spray Co. (Pneumatic), 92 Lafayette, New York

Hardie Mfg. Co. (Field & Orchard), Hudson, Mich.

Field Force Pump Co. (Hand & Horse Power), Elmira, N. Y.

Hurst, H. L. Mfg. Co. ("Fitz-Air"), Canton, O.

Myers, F. E. & Bro., Ashland, O.

Wallace Machinery Co. ("Wallace" Field; "Wallace Peerless," Gasoline Engine Power; "Wallace," Orchard); Champaign, Ill.

Spring Bed Machinery

Ivins, Wm. H. Sons Co., Treuton, N. J.
Wells, Frank, Kenosha, Wis.

Spring Clamping Machines

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Spring Closing Machines

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Spring Coiling Machines

American Cau Co. ("Rudolph & Kuumel"), 137 Adams, Chicago, Ill.

Baird Machine Co. (Automatic), Oakville, Conn.

Blake & Johnson Co., Waterbury, Conn.

Coulter & McKenzie Machine Co., Bridgeport, Conn.

Evans', Jno. Sons (Light & Heavy), 13th & Buttonwood, Phila., Pa.

Garvin Machine Co., 137 Varlek, New York.

Morgan Spring Co., Worcester, Mass.

Pratt & Whitney Co., Hartford, Conn.

SHUSTER, F. B. CO. (Wire), New Haven, Conn. (See adv. index, end of book)

Sprue Cutting Machines

(See Cutters, Sprue, Foot & Power)

Stair Routing Machines

Smith & Phillips Mfg. Co., 122 N Sangamon, Chicago, Ill.

Stamping Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Stamping Machines (Adjustable)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Dewes, A. Co., 243 Centre, New York

Smith, M. D. (For Stamping Name on Spoons & Metal), Bristol, Conn.

Staple Machines

Acme Staple Co., 500 N 12th, Phila., Pa.

Baird Machine Co., Oakville, Conn.

Bates Machine Co., Joliet, Ill.

Morgan Spring Co., Worcester, Mass.

Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.

SHUSTER, F. B. CO. (Shear & Barbed Point, Automatic), New Haven, Conn. (See adv. index, end of book)

Special Machinery Co. (Special Automatic), Bridgeport, Conn.

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

Stapling Machines

(See Wire Stapling Machinery)

Saranac Machine Co., St. Joseph, Mich.

Stimpson, Edwin B. Co., 31 Spruce, New York

Starch Factory Machinery

Caldwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.

Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.

Nordyke & Marmon Co., Indianapolis, Ind.

Remmers, R. & Sons (Consulting & Constructing Engineers, Complete Equipments), Bourse bldg, Phila., Pa.

SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)

Straub Machinery Co., 1956 W 6th, Cincinnati, O.

Static Electric Machines

Ajax Conductor & Mfg. Co., 269-271 So. Desplains, Chicago, Ill.

Birtman, C. F. Co., 158 Lake, Chicago, Ill.

Dodd & Struthers, Des Moines, Iowa

Electro Radiator Co., 18 Boylston, Boston, Mass.

Electro-Therapeutic Mfg. Co., Indianapolis, Ind.

McIntosh Battery & Optical Co., 225 E Washington, Chicago, Ill.

Harvard Electric Co., 60 W. Van Buren, Chicago, Ill.

Knott, L. M. Apparatus Co., 15 Harcourt, Boston, Mass.

McElliot, D. P., 37 State, Chicago, Ill.

McIntosh Battery & Optical Co., 39 W Randolph, Chicago, Ill.

Moore Bros. Lightning Rod Co., Graham, Mo.

National Cable & Mfg. Co., Niles, Mich., & 118 Lake, Chicago, Ill.

QUEEN & CO. (Inc.), n. w. c 8th & Arch, Phila., Pa. (See adv. index, end of book)

Van Houten & Tenbroeck Co. ("Norton"), 300 4th av, Chicago, Ill.

Wagner, R. V. & Co., 308 Dearborn, Chicago, Ill.

Walte & Bartlett Mfg. Co. ("Ranney"), 115 W 31st, New York

Stave Jointing Machines

Mack & Co., Rochester, N. Y.

Stave Sawing Machines

American Sawmill Machinery Co. ("American"), 50 Church, New York, & Hackettstown, N.J.

Klotz Machine Co. (For Cutting Out Shapes, etc.), Sandusky, O.

Stave & Heading Machinery

(See Barrel, Keg, Stave & Heading Machinery)

Staybolt Threading Machines

Acme Machinery Co., Cleveland, O.

Harrington Edwin Son & Co., 17th & Callowhill, Phila., Pa.

Landis Machine Co., Waynesboro, Pa.

Modern Tool Co., Erie, Pa.

Staying Machines (Automatic)

National Metal Edge Box Co. (For Setting up Paper Boxes with Metal Stay), 8th & Willow, Phila., Pa.

Stearine Machinery

Blettner, Jos. B. & Co., Cincinnati, O.

Brect, Gus V. Butchers' Supply Co. (Oleo Stearine), St. Louis, Mo., & 102 Pearl, New York

Stencil Cutting Machines

American Diagraph Co., 11 N 2d, St. Louis, Mo.

Bradley Stencil Machine Co., St. Louis, Mo.

Diagraph Co., 9th & Clinton, St. Louis, Mo.

Gibbs-Brower Co. ("Elliott"), 261 B'way, New York

New York Stencil Works ("National"), 100 Nassau, New York

Roovers Mfg. Co., 170 B'way, New York

Stereoscopic Machines

Rosenfield Mfg. Co. ("Victrola," Automatic), 585 Hudson, New York

Stone Channeling Machines

INGERSOLL - RAND CO. (Steam or Air, Bar, Track & Undercutting), 11 B'way, New York. (See adv. index & branch offices, end of book)

Interstate Engineering Co., Bedford, O.

Leah, Bowler & Co., 1004 Center, Cleveland, O.

Sullivan Machinery Co., R'y Exch bldg, Chicago, Ill.

Steam Stone Cutter Co. ("Wardwell" Single & Double Gaug, etc.), Rutland, Vt.

Stone Channeling Machines (Steam & Electric-Air)

INGERSOLL-RAND CO. (Bar, Track & Undercutting), 11 B'way, New York. (See adv. index & branch offices, end of book)

Stone Crushing Machinery

(See Rock & Ore Crushers)

Stone Cutting Machines

Gilmour, J., 99 Nassau, New York

Lincoln Iron Works, Rutland, Vt.

Stone Gadder or Drilling Machines

INGERSOLL - RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Steam Stone Cutter Co. ("Standard" for Quarrying Stone), Rutland, Vt.

Stone Gang Sawing Machines

Glover Machine Works (For Marble, etc.), Hinds, Thomas, Malone, N. Y.

Lincoln Iron Works ("Merriman" Screw Feed, etc.), Rutland, Vt.

Lord, Bowler & Co., 1004 Center, Cleveland, O.

New Albany Mfg. Co., New Albany, Ind.

Stone Working Machine Co. ("Thomson" Patent Parallel Motion Gang & Rip Saw), 43 Wall, New York

Stone Planing Machinery

(See Planers, Stone)

Stone Polishing Machinery

Badger Bros., Quincy, Mass.
Concord Axle Co. ("Jenny Lind"), Penacook,
Easton Foundry & Machine Co., Easton, Pa.
HARRISON SUPPLY CO., 5 & 7 Dor-
chester av, Extension, Boston, Mass. (See
adv. index, end of book)

Hinds, Thos., Malone, N. Y.
INGERSOLL - RAND CO., 11 B'way,
New York. (See adv. index & branch offices,
end of book)

Lane, W. A. ("Granite City"), Barre, Vt.
Lincoln Iron Works, Rutland, Vt.

MEYERS, WILLARD F., 342 Vernon
av, Long Island City, N. Y. (See adv. in-
dex, end of book)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
Patch, F. R. Mfg. Co., Rutland, Vt.
Pittsburgh Crushed Steel Co. (Ltd.), Pittsburgh,
Pa.

St. Cloud Iron Works (Jenny Lind & Columa
Polishers), St. Cloud, Minn.

Smith, Whitcomb & Cook Co., Barre, Vt.
Whitcomb Bros. (Granite), Barre, Vt.
Wright, M. & Son (Est. of), Montpelier, Vt.

Stone Sawing Machinery

Anderson, Geo. & Co., 420 Ogden, Newark, N. J.
Frenier, J. H. & Son, Rutland, Vt.
Gilmour, J., 99 Nassau, New York
Hawley, E. J. & C. H., Manchester, Vt.
Hinds, Thos., Malone, N. Y.
Jamieson Machine Works, St. Joseph, Mo.
Lincoln Iron Works (Also Circular Sawing),
Rutland, Vt.

Lord, Bowler & Co. (Rubbing Beds, Gang Saws,
etc.), 1004 Center, Cleveland, O.
New Albany Mfg. Co., New Albany, Ind.

Patch, F. R. Mfg. Co. (Also Circular Sawing),
Rutland, Vt.

Pattin Bros. Co., Marietta, O.
St. Cloud Iron Works, St. Cloud, Minn.
Seward & Co., Bloomington, Ind.

Stone Working Machine Co. (Gang Sawing), 43
Wall, New York
United States Rapid-Fire Gun & Power Co.,
Derby, Conn.

Walton, P. M., 1023 Gtn. av, Phila., Pa.

Stone Sifting Machines

Clark & Mills Electric Co., 543 Boylston, Bos-
ton, & Cambridge, Mass.

Stone Surfacing Machines

(See also Pneumatic Stone Surfacing Machines)
Box Electric Drill Co. (Electric, "Quik-Kut"),
115 B'way, New York

Stone Working Machinery

Atlanta Machine Works (For Marble), 1 King,
Atlanta, Ga.

Birmingham Iron Foundry (Stone Planers, Rub-
bing Beds, etc.), Derby, Conn.

DALLETT, THOS. H. CO. (Pneumat-
ic), 2300 York, Phila., Pa. (See adv. in-
dex, end of book)

Dennis Mfg. Co., Newark, N. J.

Farrel Foundry & Machine Co. (Planers, Head-
ers, etc.), Ansonia, Conn.

FLORY, S. MFG. CO., Bangor, Pa.

(See adv. index, end of book)

Gilmour, J., 99 Nassau, New York

Glover Machine Works (Gang Saws & Rub-
bing Beds for Marble), Marietta, O.

Hawley, E. J. & C. H., Manchester, Vt.

INGERSOLL - RAND CO., 11 B'way,

New York. (See adv. index & branch offices,
end of book)

Jamieson Machine Works, St. Joseph, Mo.

Lincoln Iron Works, Rutland, Vt.

MEYERS, WILLARD F., 342 Vernon

av, Long Island City, N. Y. (See adv. in-
dex, end of book)

New Albany Mfg. Co., New Albany, Ind.

Patch, F. R. Mfg. Co., Rutland, Vt.

Ruggles Machine Co. (For Soft Stone, such as
Slate, Soap & Sandstone), Poultney, Vt.

Seward & Co., Bloomington, Ind.

SHAW, WILLIS CO. (New & Second-

Hand), 171 La Salle, Chicago, Ill. (See
adv. index, end of book)

Smith, Whitcomb & Cook Co., Barre, Vt.

Stone Working Machine Co., 43 Wall, New
York

United States Rapid-Fire Gun & Power Co.,
Derby, Conn.

Straightening Machines

(See Shaft Straightening Machines; also Wire
Cutting & Straightening Machines)

**Straightening & Cutting Machines
(Strip Metal)**

NIAGARA MACHINE & TOOL W'KS.
Buffalo, N. Y. (See adv. index, end of
book)

Stranding Machines

Watson Machine Co., Paterson, N. J.

Strawboard Lining Machines

Hobbs, Mfg. Co., Worcester, Mass.

Street Flushing Machines

Connelly, D. Boiler Co., Cleveland, O.
Sanitary Street Flushing Machine Co., Carle-
ton bldg, St. Louis, Mo.

Street Railway Sweeping Machines

(See also Plows, Snow)

Brill, J. G. Co., 62d & Woodland av, Phila., Pa.

Consolidated Car Fender Co. ("Campbell"),
Providence, R. I.

Indiana Road Machine Co., Fort Wayne, Ind.

McGuire-Cummings Mfg. Co., 122 N Sangamon,
Chicago, Ill.

Smith & Wallace (Electric), Woburn, Mass.

Wendell & MacDuffie, 50 Church, New York

Street Sweeping Machines

Abbott Downing Co., Concord, N. H.

Acme Road Machinery Co., Frankfort, N. Y.

Austin Mfg. Co. (Steel, etc.), Manhattan bldg,
Chicago, Ill.; Works: Harvey, Ill.

Campbell, P. F., 55 Laurel, Phila., Pa.

Good Roads Machine Mfg. Co., Kennett Square,
Greene Mfg. Co. (Hand), Springfield, O. Pa.

Hvass, C. & Co., 509 E 18th, New York

Kisinger-Ison Co., 466 Pioneer, Cincinnati, O.

Modern Machine Co. ("Modern"), Belleville, Ill.

Monarch Road Roller Co. ("Monarch"), Groton,
N. Y.

Sanitary Street Sweeping Co. ("Pick-up"), 504
Virginia av, S. E., Washington, D. C.

Strain, J. H. Co. ("Improved Barnard Cas-
tle"), 85 Front, New York

STROUD, E. H. & CO., 36 La Salle,
Chicago, Ill. (See adv. index, end of book)

Studebaker Bros. Mfg. Co., South Bend, Ind.

Walker, H. B. ("Iron Clad" Pick-Up), Tarry-
town, N. Y.

Western Wheeled Scraper Co., Aurora, Ill.

Striking Machines

Herschell-Spillman Co. (For Parks & Pleasure
Grounds), North Tonawanda, N. Y.

String Bean Machinery

Howes, S. Co. (For Cannery), Silver Creek, N.Y.

Huntley Mfg. Co. (For Cannery), Silver Creek,
N. Y.

Invincible Grain Cleaner Co. (For Cannery),
Silver Creek, N. Y.

Lewis, E. J. ("Lewis" Cutting for Cannery),
Middleport, N. Y.

Stucco Machinery

BARTLETT, C. O. & SNOW CO.,
French st, Cleveland, O. (See adv. index,
end of book)

Butterworth & Lowe (Inc.), Grand Rapids, Mich.

Des Moines Mfg. & Supply Co., 121 E Court
av, Des Moines, Ia.

Ehram, J. B. & Sons Mfg. Co., Enterprise,
Kan.

Sugar Machinery

(All Machinery & Appliances for the manu-
facture of Beet & Cane Sugar will be found
under the heading "Sugar Machinery," fol-
lowed by sub-classifications in the letter
"S." For page number see Index of Con-
tents)

Sulphite Fibre Machinery

Bellows Falls Machine Co. (For Paper Mills),
Bellows Falls, Vt.

Carthage Machine Co., Carthage, N. Y.

Sulphuric Acid Machinery

Pratt Engineering & Machine Co., Atlanta, Ga.

Suppository Machines

Colton, Arthur (Cold Compressed), Detroit,
Stokes, F. J. Machine Co., Phila., Pa. Mich.

**Suspended or Cane Weighing
Machines**

Avery Scale Co. ("Avery," for Foundries, Rail-
ways, Docks, etc.), North Milwaukee, Wis.

Swaging Machines

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

BLISS, E. W. CO. (for Sheet Metal),
19 Adams, Brooklyn, N. Y. (See adv. index,
end of book)

Excelsior Needle Co. ("The Dayton"), Tor-
rington, Conn.

Iroquois Machine Co., Providence, R. I.

Langeller Mfg. Co. (Cold Swaging, Hammering
& Reducing Machines), Providence, R. I.

Standard Machinery Co. (Rotary), Providence,

Swaine, F. J. Co., St. Louis, Mo. R. I.

Thurston Mfg. Co., Providence, R. I.

Waterbury Farrel Foundry & Machine Co., Wa-
terbury, Conn.

Waterbury Machine Co., Waterbury, Conn.

Syrup Filling Machines (Canners')
SPRAGUE CANNING MACHINERY
Co., 5 Wabash av, Chicago, Ill. (See adv.
index, end of book)

Syruping Machines

Ams, Max Machine Co., Mount Vernon, N. Y.

Sinclair-Scott Co., Baltimore, Md.

SPRAGUE CANNING MACHINERY CO.,
5 Wabash av, Chicago, Ill. (See adv. index,
end of book)

Tablet Machines

(See also Pill Making Machines)

Colton, Arthur, 184 Brush, Detroit, Mich.

Day, J. H. Co., 1144 Harrison ave, Cincinnati,

Hall, Albert R., Indianapolis, Ind. Ohio

Hess & Barker ("Richard's" Universal Auto-
matic), 605 Sansom, Phila., Pa.

Mulford, H. K. Co., 412 S 13th, Phila., Pa.

Stokes, F. J. Machine Co., 17th & Cambria,
Phila., Pa.

Tabulating Machines

Tabulating Machine Co. ("Hollerith"), 1054
31st, Washington, D. C.

Tack Machinery

Kimball Bros. & Sprague, Brockton, Mass.

Miller's, H. J. Sons, Bridgewater, Mass.

Perkins, Henry Co. ("Improved Perkins"),
Bridgewater, Mass.

Rittenhouse, C. & Sons, Norristown, Pa.

Tack Separating Machines

Seymour & Whitlock, Newark, N. J.

Tag Machinery

American Machine Co. ("Denny"), Wilmington,
Rittenhouse, Frank, Norristown, Pa. Del.

Tag Stringing Machines

Hobbs Mfg. Co., Worcester, Mass.

Tailors' Pressing Machines

Lufkin, Jno. W., 38 Chardon, Boston, Mass.

Timmis & Clissold, Boundbrook, N. J.

Talking Machines

American Graphophone Co., Bridgeport, Conn.

American Phonograph Co., Detroit, Mich.

Blackman Talking Machine Co., 97 Chambers,
New York

Columbia Phonograph Co., 154 Nassau, New
York

Edison Phonograph Works, Orange, N. J.

Knight Cycle Co., 211 N. 12th, St. Louis, Mo.

National Phonograph Co., Orange, N. J.

Penn Phonograph Co., 17 S 9th, Phila., Pa.

Sterling Debenture Co., 225 5th av, New York

Talk-O-Phone Co., Toledo, O.

Universal Talking Machine Co., Newark, N. J.

Victor Talking Machine Co., Camden, N. J.

Tan Bark Packing Machines

Eureka Bark Mill Co., Lancaster, Pa.

Tannery Machinery

Baker, G. W. & Co., Wilmington, Del.

Burrell Mfg. Co., 251 S Jefferson, Chicago, Ill.

Desuris, John, Co., Lowell, Mass.

Dubois Iron Works, Dubois, Pa.

Barry & Zecher Co., Lancaster, Pa.
 Hemingway, John & Son, Lynn, Mass.
 Hide & Leather Working Machinery Co., Milwaukee, Wis.
 Holmes, Chas. Machine Co. (Tan Presses, Scouring Machines, etc.), 299 Marginal, Boston, Mass.
 Horn, Wm. H. & Bro. (Bark Mills, Splitting Machines & Tanners' & Curriers' Tools), 451 N 3d, Phila., Pa.
 Hutchinson Hide & Leather Machine Co. (Unhairing, Fleshing & Working-Out Machines, etc.), Winchester, Mass.
 Munkwitz, Edw. H. Co. ("Leidgen" Unhairing Machines), Milwaukee, Wis.
 Myrick Machine Co., Olean, N. Y.
 Shapley & Wells, Binghamton, N. Y.
 Seymour & Whitlock (Equipments), Newark, N. J.
 Slocumb, F. F. & Co., Wilmington, Del.
 Smith's, Jno. E. Sons Co. (Steam Jacket Kettles, Stuffing Mixers, Rendering Tanks, etc.), Buffalo, N. Y.
 Stauffer, Geo. E., Stroudsburg, Pa.
 Turner Tanning Machine Co., Peabody, Mass.
 Whitney Machine Co. (Unhairing, Fleshing & Working-Out Machines), Winchester, Mass.

Taper Rolling Machines

Coulter & McKenzie Machine Co., Bridgeport, Conn.
 Waterbury Farrel Fdry. & Machine Co., Waterbury, Conn.
 Williams, White & Co. (For Tapering or Forging Shapes), Moline, Ill.

Taper Threading Machines

Acme Machinery Co., Cleveland, O.

Taper Tube Spinning Machines

Langelier Mfg. Co., Providence, R. I.

Tapping Machines

(See also Nut Tapping Machines; also Tapping Machines for Gas & Water Mains)
 Allen Machine Co., Cleveland, O.
 American Watch Tool Co. (Bench), Waltham, Mass.
 Baker Bros., Toledo, O.
 Beaman & Smith Co. (Tapping Attachments, Drill Press, Safety Friction Type), Providence, R. I.
 Blair Tool & Machine Works ("Champion"), 24 West, New York
 Burke Machinery Co. (For 3-16 inch Tapping, etc.), Cleveland, O.
 Garvin Machine Co. (Automatic etc.), 137 Varick, New York
 Grant Mfg. & Machine Co. (Automatic), Bridgeport, Conn.
 Harrington, Edwin Son & Co., 17th Callowhill, Phila., Pa.
 Hartford Machine Screw Co., Hartford, Conn.
 Hub Machine & Tool Co. ("Acme," Hand), 621 Cherry, Phila., Pa.
 Hubbell, Harvey, Bridgeport, Conn.
 National Machine Co. (Horizontal), Hartford, Conn.
 Manville, E. J. Machine Co., Waterbury, Conn.
MURCHEY MACHINE & TOOL CO.
 (For Flanges, Fittings & Valves), 52 Porter c 4th av, Detroit, Mich. (See adv. index & branch offices, end of book)
 Newton Machine Tool Works (Inc.), 2347 Vine, Phila., Pa.
 Niles-Bement-Pond Co., 111 B'way, New York
 Pratt & Whitney Co., Hartford, Conn.
 Prentice Bros. Co., Worcester, Mass.
PRENTISS TOOL & SUPPLY CO., 115
 Liberty, New York. (See adv. index & branch offices, end of book)
 Quint, A. D., Hartford, Conn.
 St. Louis Machine Tool Co. (For Small Parts), St. Louis, Mo.
 Sloan & Chace Mfg. Co. (Ltd.) (Bench), Newark, N. J.
STARK TOOL CO. (Small), Waltham,
 Mass. (See adv. index, end of book)
 United Engineering & Foundry Co. (For Tube Mills), Farmers' Bank bldg. Pittsburg, Pa.
 Wells, F. E. & Son Co., Greenfield, Mass.
 Western Automatic Machine Screw Co., Elyria, Ohio

Tapping Machines (Dry Pipe)

Lennox Machine Co., Marshalltown, Iowa
 Mueller, H. Mfg. Co., Decatur, Ill.

Tapping Machines (Gas & Water Main)

Boust, A. C., Northumberland, Pa.
 Carr, Chas., 7 Exchange pl, Boston, Mass.
 Hardesty, J. M. & Son, Tamaqua, Pa.

Lennox Machine Co. (For Tapping Water Mains Under Pressure), Marshalltown, Ia.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Saunders, D. Sons, Yonkers, N. Y.
 Smith, Anthony P. Mfg. Co., Newark, N. J.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.

Tapping Machines (Horizontal)

Pratt & Whitney Co., Hartford, Conn.

Tapping Machines (Multiple)

Williams, White & Co. (For Pipe Fittings), Moline, Ill.

Tapping Machines (Nut)

(See Nut Tapping Machines)

Tapping Machines (Pipe-Socket)

Harrington, Edwin, Son & Co., Phila., Pa.
 Saunderson's Sons, Yonkers, N. Y.

Tapping & Reaming Machines (Pneumatic)

(See Pneumatic Hammers)

Tapping & Reaming Machines (Portable)

CHICAGO FLEXIBLE SHAFT CO.,
 La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)
 Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
 Stow Flexible Shaft Co., N 26th & Buttonwood, Phila., Pa.
 Stow Mfg. Co., Binghamton, N. Y.

Telephone Core Machines

Watson Machine Co. (For Telephone & Telegraph, etc., Parts), Paterson, N. J.

Tenoning Machines

(See Wood Tenoning Machines)

Test Hole Drilling Machines

Loomis Machine Co. (For Foundations, Test Holes, Blast Holes, etc.), Tiffin, O.

Testing Machines

Buffalo Scale Co., Buffalo, N. Y.
 Fairbanks Co., 186 Lafayette, New York
 Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.
WHITING FOUNDRY EQUIPMENT
 Co. (Axle, Draw-Bar, etc.), Harvey, Ill.
 (See adv. index & branch offices, end of book)

Testing Machines (Anchor)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Axle, Draw-Bar, Etc.)

WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Testing Machines (Belt)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Brick)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Strait, H. N. Mfg. Co., Kansas City, Mo.

Testing Machines (Can)

Ayars Machine Co., Salem, N. J.
BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Lewis, E. J., Middleport, N. Y.
 McDonald Machine Co. (Automatic), 3207 Shields av, Chicago, Ill.
 Slaysman & Co., 718 E Pratt, Baltimore, Md.
SPRAGUE CANNING MACHINERY
 Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)
 Stevenson & Co. ("Mann-Stevenson" Automatic), Baltimore, Md.

Testing Machines (Car Wheel)

WHITING FOUNDRY EQUIPMENT
 Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Testing Machines (Cement)

Clark & Mills Electric Co. (Also for Testing Stone & Road Materials), 543 Boylston, Boston, Mass.
 Elmer & Amend, 205 3d av., New York
 Fairbanks Co., 186 Lafayette, New York
 International Instrument Co. (Also for Testing Stone & Road Materials), 23 Church, Cambridge, Mass.
 Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.
 Riehle Bros. Testing Machine Co., 1424 N. 9th, Phila., Pa.

Testing Machines (Chain)

Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.

Testing Machines (Concrete)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Fruit Can)

BLISS, E. W. CO., 19 Adams, Brook-
 lyn, N. Y. (See adv. index, end of book)

Testing Machines (Hydraulic)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Testing Machines (Leather)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Oil)

Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.

Testing Machines (Paper)

Morrison, Howard L. ("Morrison" "Herron"), P. O. Box 297, Washington, D. C.
 Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Pipe)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 United Engineering & Foundry Co. (For 2 to 12-inch Pipe), Farmers' Bank Bldg., Pittsburg, Pa.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 50 Church,
 New York. (See adv. index, end of book)

Testing Machines (Power)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Perkins, B. F. & Son, Holyoke, Mass.

Testing Machines (Rubber)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Spring)

Evans', John Sons, 13th & Buttonwood, Philadelphia, Pa.
 Johnston, Wm. T. Co. (Vehicle), Cincinnati, O.
 Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Steel)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Stone)

Clark & Mills Electric Co., 543 Boylston, Boston, Mass.
 International Instrument Co., 23 Church, Cambridge, Mass.
 Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Testing Machines (Textile)

(See Testing Machines, Cloth; also Testing Machines, Yarn)

Testing Machines (Traction)

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Testing Machines (Wire)

Coldwell-Wilcox Co., Newburgh, N. Y.
 Morgan Construction Co., Worcester, Mass.
 Olsen, Tinius & Co., 500 N. 12th, Phila., Pa.

Textile Machinery

(See Specific Article Wanted)

Thawing Machines

Burbank Thawing Machine Co. ("Burbank"),
Berlin, N. H.

Thread Cut-Off Machines

Morley Button Sewing Machine Co. (Automatic
for Bars & Tucks in Shoes & Clothing), 68
Essex, Boston, Mass.

Thread Rolling Machines

Aeme Machinery Co. (Rotary), Cleveland, O.
Blake & Johnson Co., Waterbury, Conn.
BLISS, E. W. CO. (Sheet Metal), 19
Adams, Brooklyn, N. Y. (See adv. Index,
end of book)
Manville, E. J. Machine Co., Waterbury, Conn.
Mount Carmel Bolt Co. (Reciprocating), Mount
Carmel, Conn.
Nilson, A. H. Machine Co. (Reciprocating),
Bridgeport, Conn.
Triumph Electric Co. (Reciprocating), Cincin-
nati, O.
Waterbury Farrel Foundry & Machine Co. (Re-
ciprocating), Waterbury, Conn.
Waterbury Machine Co. (Reciprocating), Water-
bury, Conn.

Threading Machines (Sheet Metal)

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. Index, end of book)

Threshing Machinery

(See Threshers)

Thumbhole Cutting Machines

Chase Turbine Mfg. Co. ("Chase's" Automatic),
Orange, Mass.
Hobbs Mfg. Co. (For Paper Box
Makers), Worcester, Mass.

Ticket Canceling Machines

(See Cancelling Machines)

Tile Ditching Machines

Bennett, H. L. & Co., Westerville, O.
Municipal Engineering & Contracting Co., R'y
Exch bldg, Chicago, Ill.
St. Paul Ditcher & Currier Co. ("Hovland"),
St. Paul, Minn.

Tile Facing Machines

Lincoln Iron Works, Rutland, Vt.

Tile Making Machinery

Crossley Machine Co., Trenton, N. J.
Hetherington & Berner Co. (Encaustic, Cera-
mic), 19 W South, Indianapolis, Ind.
Hill, Jas. B. (Traction), Deshler, O.
Michigan Brick & Tile Machine Co., Morenci,
Raymond, C. W. Co., Dayton, O. Mich.

Tile Sizing Machines

Lincoln Iron Works, Rutland, Vt.

Timber Graining Machines

Berlin Machine Works, Beloit, Mich.
Fay, J. A. & Egan Co., Cincinnati, O.

Timber Preserving Machinery

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

Tin Can Machinery

(See Can Makers' Machinery; also Sheet Metal
Workers' Machines & Tools)

Tin Foil Machinery

Blake & Johnson Co., Waterbury, Conn.
Waterbury Farrel Foundry & Machine Co., Wat-
erbury, Conn.

**Tin Plate Lacquering & Varnishing
Machines**

Ohl, Geo. A. & Co. (For Coating Tin, Iron,
Metal, Cardboard, etc.), 157 Ornton, New-
ark, N. J.

Tin Plate Mill Machinery

(See also Rolling Mill Machinery, Etc.)

Aetna Foundry & Machine Co., Warren, O.
American Sheet & Tin Plate Co., Roll & Machine
Works, Canton, O.
Anderson Foundry & Machine Works (Pickling &
Tinning Machines, Branners, Dusters, etc.),
Anderson, Ind.
Birdsboro Steel Foundry & Machine Co., Birds-
boro, Pa.
Braddock Machine & Mfg. Co., Braddock, Pa.
Elwood Iron Works, Elwood, Ind.
FAWCUS MACHINE CO., Pittsburg,
Pa. (See adv. Index, end of book)
Mesta Machine Co., Lewis blk, Pittsburg, Pa.
Newbold, R. S. & Son Co., Norristown, Pa.
Pennsylvania Engineering Works, New Castle,
Pa.
Phila. Roll & Machine Co., S 23d & Washing-
ton, av, Phila., Pa.
Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.
Stevenson Co., Wellsville, O.
Union Foundry & Machine Co., Pittsburg, Pa.
United Engineering & Foundry Co. (Rolling
Mill Machinery), Farmers' Bank bldg, Pitts-
burg, Pa.
Swindell, Wm. C. Bro., Pittsburg, Pa.
Wheeling Mold & Foundry Co., Wheeling, W.
Va.

Tinners' Grooving Machines

Barber Mfg. Co., Ashtabula, O.

Tinners' Tools & Machinery

(See Sheet Metal Workers' Machines & Tools)

Tinning Machinery

Union Foundry & Machine Co., 224 W Carson,
Pittsburg, Pa.

**Tinware Making Machinery (Pieced
& Seamless)**

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. Index, end of book)

Tipping Machines

Kester Electric Mfg. Co. (Improved Automatic),
251 S Jefferson, Chicago, Ill.
Chicago Solder Co. (Improved Automatic), 56
N Union, Chicago, Ill.

Tire Applying Machines

Nelson & Le Noon, 88 W Monroe, Chicago, Ill.
Ross Machine Mfg. Co. ("Linn"), Jamestown,
N. Y.

Tire Bolting Machines

Nelson & LeMoon, 88 W Monroe, Chicago, Ill.
Bentel & Margedant Co. (& Bolt Clipping),
Hamilton, O.
National Steam Pump Co. ("Reynolds"), Upper
Sandusky, O.

Tire Drilling Machines

Reed, Francis Co., Worcester, Mass.

Tire Rolling Machines

Williams, White Co., Moline, Ill.

Tire Setting Machines

(See Setters, Tire)

Tire Trueing Machines

Bentel & Margedant Co., Hamilton, O.

Tire Welding Machines

HEARTLEY MACHINE, VARIETY
Iron & Tool Works, Toledo, O. (See adv.
Index, end of book)
Kane & Roach, Syracuse, N. Y.
Long & Allstatter Co., Hamilton, O.
Williams, White & Co., Moline, Ill.

Tissue Paper Machines

Beloit Iron Works, Beloit, Wis.

Tobacco Cutting Machines

(See also Cutters, Tobacco)

Buckeye Iron & Brass Works, Dayton, O.
Himoff Machine Co., 128 Mott, New York
Ludington, F. J. ("Ludington"), Waterbury,
Conn.

Tobacco Farming Machinery

Ball, Mitchell & Co., Mayville, Ky.
Belcher & Taylor Agricultural Tool Co. (Ridg-
ers), Chilcopee Falls, Mass.
Cardwell Machine Co., Richmond, Va.
Fuller & Johnson Mfg. Co. (Hoes), Madison,
Wis.
Iowa Farming Tool Co. (Hoes), Fort Madison,
Iowa
Nagley Mfg. Co. (Spears), Lyons, N. Y.
Union Mfg. Co., Toledo, O.

Tobacco Hoeing Machines

Allen, S. L. & Co., 1017 Market, Phila., Pa.
Belcher & Taylor Agricultural Tool Co., Chil-
copee Falls, Mass.
Fuller & Johnson Mfg. Co., Madison, Wis.

Tobacco Knife Grinding Machines

Diamond Machine Co., Providence, R. I.
SUPERIOR CORUNDUM WHEEL CO.,
Waltham, Mass. (See adv. Index, end of
book)

Tobacco Machinery

Adt, Jno. B. (Granulators, Separators, Cutters,
Dryers, Coolers, Stem Rollers & Packers),
332 N Holliday, Baltimore, Md.
Buckeye Iron & Brass Works (Cutting), Dayton,
Ohio
Cardwell Machine Co. (Granulators, Packers,
Dryers, Cutters, Shapers or Mouths & Casing
Machines), Richmond, Va.
Danbery Foundry Co. ("Parker" Portable
Presses, Steamers, Stationary Screws, etc.)
Erle Specialty Co., Erle, Pa. Ripley, O.
Ernold, Edw., 652 Hudson, New York
Keyes, F. R. & Co., Binghamton, N. Y.
Ludlow-Dunn-Gordon Co., Cincinnati, O.
Ludington, F. J., Waterbury, Conn.
McGowan, Jno. H. Co., Cincinnati, O.
Mayo, Hysore & Co., Richmond, Va.
Miller, Dubrul & Peters Mfg. Co., Cincinnati,
Ohio
Petersburg Iron Works Co., Petersburg, Va.
Phila. Textile Machinery Co. (Automatic Dry-
ers, Coolers, Orderers & Softeners, etc.),
Titus, E. E., Petersburg, Va. Phila., Pa.
Warwick Bros., Richmond, Va.
Westbrooks Elevator Co., Danville, Va.

Toilet Paper Machines

Dietz Machine Works (Slitting, Separating &
Rewinding), 126 Fountain, Phila., Pa.

Toilet Pin Machinery

Baird Machine Co., Oakville, Conn.

Toilet Soap Machinery

Rutshman, Oscar F., 426 Berks, Phila., Pa.
SCHULE, F. H. CO., 114-118 Liberty,
New York. (See adv. Index, end of book)

Tomato Can Filling Machines

(See Can Filling Machines)

Tomato Machinery (Canners')

SPRAGUE CANNING MACHINERY
Co., 5 Wabash av, Chicago, Ill. (See adv.
Index, end of book)

Tomato Transplanting Machines

SPRAGUE CANNING MACHINERY
Co., 5 Wabash av, Chicago, Ill. (See adv.
Index, end of book)

Tool Grinding Machinery

(See Grinders, Plain Tool; also Grinders,
Wet Tool)

Tow Mill Machinery

New Winona Mfg. Co. ("Diamond" for Coarse,
Fine or Medium Tow), Winona, Minn.

Towing Machines

American Ship Windlass Co. (Automatic
Steam), Providence, R. I.
Chase Machine Co. (Automatic Steam), Cleve-
land, O.

Trace Trimming Machines

Campbell-Bowworth Machinery Co. ("Boston"
Automatic), Boston, Mass.

Tracing Machines (Hot)

AJAX MFG. CO., 3830 Lakeside, N. E.,
Cleveland, O. (See adv. index, end of book)

Traveling Bed Planing Machines

Chase Turbine Mfg. Co. (Planers, 24-in. Wide
to 12-in. Thick). Orange, Mass

Trench Machines

(See Sewer & Trench Excavating Machines)

**Trimming Machines (Paper, Cloth,
Leather, Etc.)**

KNOWLTON, M. D. CO., Rochester,
N. Y. (See adv. index & branch offices,
end of book)

Tripping Machines

Poole Engineering & Machine Co., Woodbury
Station, Baltimore, Md.

Trolley Wheel Machines

Sutton, C. E. Co. (For Turning Grooves in Trol-
ley Wheels, etc.). Toledo, O.

Trunk Machinery

Ohl, Geo. A. & Co. (Slat Machines for Staining
Trunk Slats, etc.), 157 Oraton, Newark,
N. J.

Sutton, C. E. Co. (For Turning Grooves in Trol-
ley Wheels, etc.). Toledo, O.
Titus, E. E., Petersburg, Va.

**Trunk Slat Staining & Varnishing
Machines**

Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.

Tub & Pail Machinery

BLISS, E. W. CO. (Sheet Metal), 19
Adams, Brooklyn, N. Y. (See adv. index,
end of book)
Gerlach, Peter Co. (Also for Churn, Ice Cream
Freezer, Fish Kit, etc.). Cleveland, O.
Goodspeed Machine Co., Wluchedou, Mass.
Humphrey Machine Co., Keene, N. H.

Tube Cutting Machines

Grant-Lees Machine Co., Cleveland, O.

Tube Filling Machines

Ross, Chas. & Son Co. (For Paste, Oil & Cos-
metics), 148 Classon av, Brooklyn, N. Y.

Tube Mill Machinery

(See Pipe & Tube Mill Machinery)

Tube Reducing Machines

Standard Machinery Co., Providence, R. I.

**Tube Rolling & Cutting Machines
(Paper)**

Chicago Paper Tube & Can Co. ("Williams").
20 N May, Chicago, Ill.

Tube Tapering Machines

Excelsior Needle Co., Torrington, Conn.

Turntable Machinery

FAIRBANKS, MORSE & CO., Wabash
av & Eldredge pl., Chicago, Ill. (See adv.
index & branch offices, end of book)
KILGORE-PETELER CO., Minneap-
olls, Minn. (See adv. index, end of book)

Turpentine Machinery

Victor Turpentine Machine Co., Jacksonville,
Fla.

Twine Making Machinery

(See Cordage Machinery)

Type Casting Machines

Universal Automatic Type Casting Machine Co.
("Nuernberger-Kettig" Automatic), 97 N
Sheldon, Chicago, Ill.

**Type Setting & Type Distributing
Machines**

Brown, R. H. & Co., New Haven, Conn.
Lanston Monotype Machine Co. (Typesetting),
398 B'way, New York
Mergenthaler Linotype Co., Tribune bldg, New
York
National Compositype Co., Baltimore, Md.
Unitype Co. ("Simplex"), 150 Sands Brooklyn,
N. Y.

Universal Grinding Machines

(See Grinders, Universal)

Upsetting & Forging Machines

(See also Upsetters, Tire)

Acme Machinery Co., Cleveland, O.
AJAX MFG. CO. (Axle) 3830 Lake-
side, N E, Cleveland, O. (See adv. index,
end of book)
Fulton Iron Works ("Stoddard"), Detroit, Mich.
National Machinery Co., Tiffin, O.
Niles-Bement-Pond Co., 111 B'way, New York
Pawtucket Mfg. Co., Pawtucket, R. I.
Williams, White & Co. ("Moline" Upsetting &
Forging), Moline, Ill.

Vacuum Machinery

WERNER & PFLEIDERER, Sagi-
naw, Mich. (See adv. index, end of book)

Valve Inserting Machines

Hoefler Mfg. Co., Freeport, Ill.
Smith, A. P. Mfg. Co. ("French" & "Sherred"),
Newark, N. J.

Valve Re-Seating Machines

Barnum, W. P. (The Standard), Fredonia, N. Y.
Draper Mfg. Co. (Facing Tools), Port Huron,
Mich.
Franklin, Benj. ("Sterling"), Rochester, N. Y.
Howes, S. Co., Silver Creek, N. Y.
Huxley Mfg. Co. ("Huxley" Valve Refacing
& Valve Remodelling Machines), 753 7th,
Buffalo, N. Y.
Leavitt Machine Co. (The Morse & Dexter),
Orange, Mass.
Long, Adam A., 13 Graves, Rochester, N. Y.
Tower, H. R. ("Wright & Rust"), Holyoke,
Mass.
Underwood, H. B. & Co., 1025 Hamilton,
Phila., Pa.

Valve Seat-Milling Machines

American Tool & Machine Co., 109 Beach, Bos-
ton, Mass.
Underwood, H. B. & Co., 1025 Hamilton,
Phila., Pa.

Valve Seat Planing Machines

Niles-Bement-Pond Co., 111 B'way, New York
Stow Flexible Shaft Co., N 26th & Buttonwood,
Philadelphia, Pa.

Valve Wheel Machinery

Bradley, H. C. (For Wood Wheels), Bridgeport,
Conn.

Vanning Machines

Power & Mining Machinery Co. (For Line Con-
centration), Cudahy, Wis.

Variety Moulding Machines

American Steam Pump Co., Battle Creek, Mich.
Bentel & Margedant Co., Hamilton, O.
Carey, W. W., Lowell, Mass.
Prybil, P., 506 W. 41st, New York

Variety Sawing Machines

Bentel & Margedant Co., Hamilton, O.
Cordesman, Reichtin Co., Cincinnati, O.
Greaves, Klusman & Co., Cincinnati, O.
Root, B. M. Co., York, Pa.
Verkes & Finan Woodworking Machine Co., St.
Louis, Mo.

Variety Wood Turning Machines

Mattison, C. Machine Works, ("Universal").
Beloit, Wis.

Varnish Can Machinery

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)

Varnish Makers' Machinery

Kent Machine Works, 39 Gold, Brooklyn, N. Y.
SCHULE, F. H. CO., 114-118 Liberty,
New York. (See adv. index, end of book)

Varnishing Machines

Chambers Bros. Co., 52d bel. Lancaster av,
Philadelphia, Pa.
KNOWLTON, M. D. CO., Rochester,
N. Y. (See adv. index & branch offices,
end of book)

**Varnishing Machines for Rubber
Mills**

Birmingham Iron Foundry, Derby, Conn.

Vegetable Cutting Machines

Smith's, Jno. E. Sons, Buffalo, N. Y.

Vending Machines

American Automusic Co., 53 B'way, New York
American Mutoscope & Biograph Co. (Moving
Pictures), 11 E 14th, New York
Automatic Coin Machine Co. (Coin Operating),
Rochester, N. Y.
Automatic Machine & Tool Co., 46 N Ann, Chi-
cago, Ill.
Automatic Machine Co., 90 W B'way, New
York
Automatic Sales Co. (Gum), Lansing, Mich.
Automatic Target Machine Co. (Target), 203
Fulton, New York
Automatic Vending Co., 240 W 23d, New York
Becker, P. A. (Collar Button), 10 De Kalb av,
Brooklyn, N. Y.
Bennett & Co. (Cigar), Kalamazoo, Mich.
Boston Coin Machine Co., 381 Albany, Boston,
Mass.
Caille Bros. Co. (Coin Operating), 1300 2d av,
Detroit, Mich.
Caille Co. (Coin Operating & Slot), 206 Ran-
dolph, Detroit, Mich.
Cowper Mfg. Co. (Coin Operating, Slot, etc.),
166 S Clinton, Chicago, Ill.
Diamond Novelty Co., Syracuse, N. Y.
Great American Automatic Vending Machine
Co. (Vending), Hoboken, N. J.
Grissold Mfg. Co. (Card, Gum, etc.), Rock
Island, Ill.
Grover & Haskell (Slot), 381 Albany, Boston,
Mass.
Gum & Sweetmeat Co., 60 Murray, New York
Hilo Gum Co., 127 Market, Chicago, Ill.
International Vending Machine Co. (Postage
Stamp), Baltimore, Md.
Lee-White Vending Machine Co., Brockport, N.Y.
Mills Novelty Co. (Candy, Cigar, Cigarette,
Gum, Peanut, Package, etc., Coin Operat-
ing), 150 Green, Chicago, Ill.
Mitchell Mfg. Co., Portsmouth, O.
Multi-Vending Co. (Gum, Candy, etc., Com-
bination), 193 S Clinton, Chicago, Ill.
National Automatic Weighing Machine Co.
(Coin Operating), 60 Murray, New York
National Photograph Machine Co. (Photograph),
85 Beaver, New York
Nelson, J. E. & Co., 48 River, Chicago, Ill.
N. Y. Liquid Dispensing Machine Co., 507 W
35th, New York
Price Collar Button Machine Co. (Collar But-
ton), 42 Chauncey, Boston, Mass.
Public Sales Co., 167 Chambers, New York
Purltan Machine Co. (Ltd.), Detroit, Mich.
Roovers Mfg. Co. (Name Plate, etc.), 170 B'way,
New York
Rosenfeld Mfg. Co. (Coin Operating, etc.), 585
Hudson, New York
Sickling, Barnard Co. (Card Playing), 1931 Free-
man, Cincinnati, O.
Star Gum Co., 170 W Van Buren, Chicago, Ill.
Turner Brass Works, Sycamore, Ill.
United Centadrink Co., 1440 B'way, New York
Victor Novelty Works, 81 S Jefferson, Chicago,
Ill.
VOELKNER & HARRY MANUFAC-
turing Co., 125 Woodbridge N, Detroit, Mich.
(See adv. index, end of book)
Waddell Woodenware Works Co., Greenfield, O.
Watling Mfg. Co. (Coin Operating), 155 W
Jackson boul, Chicago, Ill.

Veneer Cutting Machines

Bentel & Margedant Co. (Rip & Cross Cut
Saws), Hamilton, O.
Capital Machine Works, Indianapolis, Ind.
Carpenter, Thos. D., 93 Pearl, Brooklyn, N. Y.
Coe Mfg. Co. (Rotary), Painesville, O.
Frank Machinery Co., Buffalo, N. Y.
Hayes Machine Co. (Inc.), Kingston, N. Y.

Hubbard's, Norman Sons ("Rochow"), 265 Water, Brooklyn, N. Y.
 Merritt Mfg. Co. (Rotary, a Six-Bearing Veneer Lathe & Direct Feed Automatic Veneer Clipper), Lockport, N. Y.
 St. Joseph Iron Works (Veneer Lathes), St. Joseph, Mich.
 Titus, Elmer E., Petersburg, Va.
 Trevor Mfg. Co., Lockport, N. Y.

Veneer Drying Machines

Coe Mfg. Co. (Automatic), Painesville, O.
 Merritt Mfg. Co. ("Merit-Gale"), Lockport, N. Y.

Vermicelli Machinery

City Machine Co., 430 Prospect, N. W., Cleveland, O.
WERNER & PFLEIDERER, Saginaw, Mich. (See adv. index, end of book)

Vinegar Machinery

Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.

Voting Machines

Abbott Voting Machine Co., Hudson, Mich.
 Bardwell Votometer Co., 17 Park Row, New York
 Davis Voting Machine Co., 15 Park Row, New York
 Grant Mfg. & Machine Co., Bridgeport, Conn.
 Ross Voting Machine Co., Newport, Ky.
 Triumph Voting Machine Co., Pittsfield, Mass.
 U. S. Standard Voting Machine Co., Rochester, N. Y. Works, Jamestown, N. Y.

Wagon Builders' Machinery

(See Carriage Builders' Machinery)

Wall Paper Machinery

Marresford, Wm. F., 56 Pearl, Brooklyn, N. Y.
 Waldron, Jno. Co., New Brunswick, N. J.

Washer Cutting Machines

Krips-Mason Machine Co., 1636 N Hutchinson, Phila., Pa.
 National Machinery Co., Tiffin, O.
 Pawtucket Mfg. Co., Pawtucket, R. I.

Washing Machines

(See Washing Machines in the Letter W)

Waste Product Machinery for Packing Houses

Joslin, Schmidt & Co. (Glue Works, Soap Factories, etc.), Cincinnati, O.

Watch Case Machinery

Cavagnaro, Jno. J., 255 Centre, New York

Watchmakers' Machinery

(See Clock & Watchmakers' Machinery)

Wax Working Machines

SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)

Waxing Machines (Paper, Cloth, Leather, Etc.)

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)

Weighing Machines (Automatic)

(See Automatic Weighing Machines)

Weighing Machines for Filled Cans

SPRAGUE CANNING MACHINERY Co., 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Weighing, Packing & Bagging Machines (Automatic)

Automatic Weighing Machine Co., Newark, N. J.
SCHULE, F. H. CO., 114-118 Liberty, New York. (See adv. index, end of book)

Well Drilling Machinery

Ajax Iron Works, Corry, Pa.
 Alamo Iron Works, San Antonio, Tex.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Armstrong-Quam Mfg. Co., Waterloo, Ia.
 Austin Mfg. Co., Manhattan bldg, Chicago, Ill.; Works: Harvey, Ill.
 Bovalrd & Seyfang Mfg. Co., Bradford, Pa.
 Brockett, C. A. Cement Co., 121 W 8th, Kansas City, Mo.
 Cook Well Co., 15 S 4th, St. Louis, Mo.
 Crown Drilling Machine Co. (For Water, Gas or Oil), Akron, O.
 Cyclone Drill Co., Orrville, O.
 Dempster Mill Mfg. Co., Beatrice, Neb.
 Everhard Co., Mosillon, O.
 Flint & Wailing Mfg. Co., Kendallville, Ind.
 Fort Smith Well Drill Mfg. Co., Fort Smith, Ark.

Futon Engine Works (Oil Well, etc.), Los Angeles, Cal.
 Hardy Machine Co. (Oil & Gas), North Baltimore, O.
 Howell, R. R. & Co., Minneapolis, Minn.
 Indiana Road Machine Co., Fort Wayne, Ind.
 Keystone Driller Co., Beaver Falls, Pa.
 La Crosse Well Drill Works, La Crosse, Wis.
 Leidecker Tool Co., Marletta, O.
 Lisle Mfg. Co., Clarinda, Ia.
 Loomis Machine Co. ("Clipper"), Tiffin, O.
 Novelty Iron Works (G. E. Davis, Prop.) ("Dubuque"), Dubuque, Iowa

OIL WELL SUPPLY CO. (Oil Well, etc.), 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Pech, Gus Foundry & Mfg. Co., Le Mars, Ia.
 Red Cross Mfg. Co., Bluffton, Ind.
 Rockford Well Drill Co., Rockford, Ill.
 St. Louis Well Machine & Tool Co., Wabash R. R. & S., Newsted av, St. Louis, Mo.
 Safety Steel Derrick Co., Deshler, O.
 Sparta Iron Works Co., Sparta, Wis.
 Star Drilling Machine Co. (Portable), Akron, O.
 Titusville Iron Co., Titusville, Pa.
 United Iron Works Co., Joplin, Mo.
 Van Zandt-Moore Iron Works, Fort Worth, Tex.
 Williams Bros., Ithaca, N. Y.

Well Drilling Machinery (Adamantine Coring)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Well Drilling Machinery (Rotary Boring)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Well Machines (Belt Driven)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Wet Machines (Paper Mill)

Bagley & Sewell Co., Watertown, N. Y.
 Carthage Machine Co., Carthage, N. Y.
 Emerson Mfg. Co., Lawrence, Mass.
 Friction Pulley & Machine Works, Sandy Hill, N. Y.
 Holyoke Machine Works, Holyoke, Mass.
 Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.

Wheel Facing Machines

Bentel & Margedant Co., Hamilton, O.

Wheel Machinery

Bentel & Margedant Co., Hamilton, O.
 Cordesman, Rehtin Co., Cincinnati, O.
 Defiance Machine Works, Defiance, O.
 Fay, J. A. & Egan Co., cor. Front & John, Cincinnati, O.

Wheel Polishing Machines

Bentel & Margedant Co., Hamilton, O.

Wheel-Rim Turning Machines

Pratt & Whitney Co., Hartford, Conn.

Wheel Tenoning Machines

Bentel & Margedant Co., Hamilton, O.

Wheel Thread Sanding Machines

Bentel & Margedant Co., Hamilton, O.

Whip Makers' Machinery

Moore, M. E. & Son, Westfield, Mass.

Whisk Broom Machinery

(See also Broom Machinery)

Cassard, Hamilton, Baltimore, Md.

White Lead Machinery

Campbell, Peter F., 51 Lanrel, Phila., Pa.
 Cresson, Geo. V. Co., Allegheny, av, W of 17th, Phila., Pa.
 Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.
 Greenwald, I. & E. Co., 720 E Pearl, Cincinnati, Ohio.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N.Y.
 Thompson & Campbell, 1030 Germantown av, Phila., Pa.

Whitewash Spraying Machines

(See Paint & Whitewash Spraying Machines)

Whiting Machines for Picture Frames

Andrew, M. L. & Co., 2852 Spring Grove av, Cincinnati, O.

Whiting Works Machinery

Campbell, P. F., 55 Lanrel, Phila., Pa.

Winding Machines (Paper, Cloth, Leather, Etc.)

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)

Window Frame Machinery

Smith & Phillips Mfg. Co., 122 N Sangamon, Chicago, Ill.
 Wachusett Machine Co., Fitchburg, Mass.

Wine Making Machinery

Emeny, G. J. Co. (Cider Mill Machinery), Fulton, N. Y.
 Hydraulic Press Mfg. Co., Mount Gilead, O.
 Klotz Machine Co., Sandusky, O.
 Krogh Mfg. Co., San Francisco, Cal.

Wipe Joint Machines

United Brass Mfg. Co. ("Corcoran" Cable Splicing), Cleveland, O.

Wiping & Packing Waste Machinery

Ford, H., Springfield, Mass.

Wire Barbing Machines

Bates Machine Co., Joliet, Ill.
 Emery, Wilber (High Speed), Oherlin, O.

Wire Cloth Measuring Machines

Schriner, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.

Wire Cloth Weaving Machines

Crompton & Knowles Loom Works, Worcester, Mass.
 Diamond Wire Web Co., 489 Oak, Columbus, O.
 Lloyd Mfg. Co. (Automatic Coiled Wire Fabric Machines), Minneapolis, Minn.

Wire Covering Machinery

(See Wire & Cable Covering Machinery)

Wire Crimping Machines

Automatic Machine Co., Bridgeport, Conn.
 Blake & Johnson Co., Waterbury, Conn.
 Cady Machine Co., Cleveland, O.
FRANKLIN MFG. CO., New Haven, Conn. (See adv. index, end of book)
 Hayes Machine Co. (Inc.), Kingston, N. Y.
 Manville, E. J., Machine Co., Waterbury, Conn.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)
 Smurr & Kamen Machine Co. (Crimping, Cutting & Counting Combined), 97 S Clinton, Chicago, Ill.



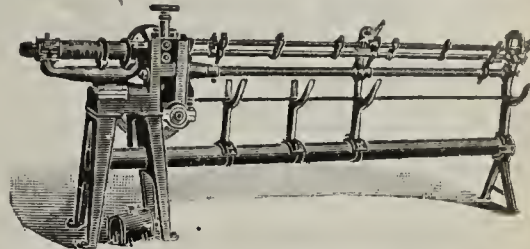
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Waterbury Farrel Foundry Co., Waterbury, Conn.
WRIGHT WIRE CO., Worcester, Mass.

Wire Drawing Machinery

Bates Machine Co., Joliet, Ill.
Currier, Cyrus & Sons, Newark, N. J.
FRANKLIN MFG. CO., New Haven, Conn. (See adv. index, end of book)
Ford & Donnelly, Kokomo, Ind.
Iroquois Machine Co. (For Brass, etc.), Providence, R. I.

MacKenzie's, Duncan Sons Co., Trenton, N. J.
Morgan Construction Co., Worcester, Mass.
Richard Mfg. Co., Bloomshurg, Pa.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)
Toledo Machine & Tool Co., Toledo, O.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Waterbury Machine Co., Waterbury, Conn.
WRIGHT WIRE CO. (Wire Drawing Frames), Worcester, Mass.

Wire Forming Machinery

Adrlance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
Automatic Machine Co., Bridgeport, Conn.
Baird Machine Co., Oakville, Conn.
Blake & Johnson Co., Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Cady Machine Co. (Automatic), Cleveland, O.
Conlter & McKenzie Machine Co., Bridgeport, Conn.

FRANKLIN MFG. CO., New Haven, Conn. (See adv. index, end of book)
Manville Bros. Co., Waterbury, Conn.
Manville, E. J., Machine Co., Waterbury, Conn.
Morgan Spring Co., Worcester, Mass.
Nilson, A. H., Machine Co. (Automatic), Bridgeport, Conn.

SHUSTER, F. B. CO. (Automatic), New Haven, Conn. (See adv. index, end of book)

Smurr & Kamen Machine Co., 97 S Clinton, Chicago, Ill.

Special Machinery Co., Bridgeport, Conn.
Standard Machinery Co., Providence, R. I.
Up-to-Date Mfg. Co., Terre Haute, Ind.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
Waterbury Machine Co. (For Brass, etc.), Waterbury, Conn.

Wire Galvanizing Machinery

Bates Machine Co., Joliet, Ill.
Morgan Construction Co., Worcester, Mass.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
WRIGHT WIRE CO., Worcester, Mass.

Wire Handle Machines

American Can Co. ("Rudolphi & Kummel" Automatic), 135 Adams, Chicago, Ill.

Wire Insulating Machinery

(See Wire & Cable Covering Machinery)

Wire Machinery

Aetna Foundry & Machine Co. (Wire Mill), Warren, O.
American Can Co., Merchants' Loan & Trust bldg., Chicago, Ill.
Bates Machine Co., Joliet, Ill.

FRANKLIN MFG. CO., New Haven, Conn. (See adv. index, end of book)
Hinkley, A. H., 71 Bassett, Providence, R. I.
Kilby Mfg. Co., Cleveland, O.

MacKenzie's, Duncan Sons Co. (Draw Benches & Annealers), Trenton, N. J.
Manville Bros. Co., Waterbury, Conn.

Manville, E. J., Machine Co., Waterbury, Conn.
Morgan Construction Co., Worcester, Mass.
Richard Mfg. Co., Bloomshurg, Pa.

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)
Thompson, Hugh L. (Brass & Copper, also for Rods & Sheets), Waterbury, Conn.

Turner, Vaughn & Taylor Co. (Wire Mill), Cuyahoga Falls, O.
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Waterbury Machine Co., Waterbury, Conn.
Watson Machine Co., Paterson, N. J.

WRIGHT WIRE CO., Worcester, Mass.

Wire Mattress Machinery

(See also Woven Wire Mattress Machinery)

Cavagnaro, John J., 255 Center, New York
Houchin, Alken Co., 37 53d, B'klyn, N. Y.
Ivens, Wm. H., Sons Co., Trenton, N. J.

Wire Measuring Machines

Anderson, Homer, Peekskill, N. Y.
Jones & Gross Elec. Co., 64 Vesey, New York

Minneapolis Electric & Construction Co., Minneapolis, Minn.
Moore, S. L. & Sons Corp., Elizabeth, N. J.
New England Butt Co., Providence, R. I.
Textile Machine Works, Reading, Pa.
Watson Machine Co., Paterson, N. J.

Wire Nail Barbing Machines

Bates Machine Co., Joliet, Ill.
Miller's, H. J. Sons ("Improved Perkins"), Bridgewater, Mass.
Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

Wire Nail Cleaning Machines

Spicer Mfg. Co., New Philadelphia, O.

Wire Nail Machinery

(See Nail Mill Machinery)

Wire Pointing Machinery

(See also Swaging Machines)

Baird Machine Co., Oakville, Conn.
Bates Machine Co., Joliet, Ill.
Excelsior Needle Co., Torrington, Conn.
Goodyear, S. W. (By Compression or Cold Swaging), Waterbury, Conn.

Manville, E. J., Machine Co., Waterbury, Conn.
Morgan Construction Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J., & 30 Church, New York. (See adv. index, end of book)

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Wire Rivet Machines

Cook, Asa S. Co., Hartford, Conn.
Manville, E. J., Machine Co., Waterbury, Conn.
Perkins, Henry J., Bridgewater, Mass.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Wire Rolling or Flattening Machines

WRIGHT WIRE CO., Worcester, Mass.

Wire Rope Making Machinery

Watson Machine Co., Paterson, N. J.



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NEW HAVEN, CONN.

Wire Spooling Machines

Cady Machine Co., Cleveland, O.
Kocgel, Chas. & Sons, Holyoke, Mass.
Waterbury Machine Co., Waterbury, Conn.
Watson Machine Co., Paterson, N. J.

WRIGHT WIRE CO., Worcester, Mass.

Wire Spring Coiling Machines

(See also Spring Coiling Machines).

Baird Machine Co., Oakville, Conn.
Garvii Machine Co., 137 Varick, New York
Manville Bros. Co., Waterbury, Conn.
Manville, F. J. Machine Co., Waterbury, Conn.
Nilson, A. H. Machine Co., Bridgeport, Conn.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Wire Spring Machinery

Nilson, A. H. Machine Co. (Automatic), Bridgeport, Conn.

Wire Stapling Machinery

Cohden Machine Works, Cobden, Ill.
Merritt Mfg. Co., Lockport, N. Y.
St. Joseph Iron Works (For Baskets, Packages, etc.), St. Joseph, Mich.
Saranac Machine Co. ("Advance" for Baskets, Boxes, Fruit Package, Butter Dish, etc.), St. Joseph, Mich.

Wire Stitching Machines

BECK, CHAS. PAPER CO. (LTD.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)

Brown, R. H. & Co., New Haven, Conn.
Hinze, H., Tribune bldg, New York
Latham Machinery Co. ("Monitor"), 199 S Canal, Chicago, Ill.
Saranac Machine Co. ("Advance" for Books & Pamphlets), St. Joseph, Mich.
Sheridan, T. W. & C. B. Co., 56 Duane, New York, & Chicago, Ill.

Wire Straightening Machines (Roll & Rotary)

Morgan Spring Co., Worcester, Mass.
SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Wire Straightening & Cutting Machines

American Can Co., 135 Adams, Chicago, Ill.
Baird Machine Co., Oakville, Conn.
Chandler & Farquhar Co., Boston, Mass.
Cross & Speirs Machine Co. (Automatic), Waterbury, Conn.
FRANKLIN MFG. CO. ("Cracker Jack" Straightening Machine), New Haven, Conn. (See adv. index, end of book)
Gregg Mfg. Co. ("Gregg" Automatic Core Wire), 1318 W 4th, Cleveland, O.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Manville, E. J. Machine Co., Waterbury, Conn.
Nilson, A. H. Machine Co., Bridgeport, Conn.
SHUSTER, F. B. CO. (Automatic), New Haven, Conn. (See adv. index, end of book)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WRIGHT WIRE CO., Worcester, Mass.

Wire Straightening & Forming Machinery

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Wire Stranding Machines

New England Butt Co., Providence, R. I.
Textile Machine Works Inc., Reading, Pa.
Watson Machine Co., Paterson, N. J.

Wire Testing Machines

(See Testing Machines, Wire)

Wire Twisting Machines

Bates Machine Co., Joliet, Ill.
Watson Machine Co., Paterson, N. J.

Wire Weaving Machinery

(See Wire Cloth Weaving Machines)

Crompton & Knowles Loom Works, Worcester, Mass.

Wire Winding Machinery

American Insulating Machinery Co., Hancock & Oxford, Phila., Pa.
Kocgel, Chas. & Sons, Holyoke, Mass.
Morgan Construction Co., Worcester, Mass.
New England Butt Co., Providence, R. I.
WRIGHT WIRE CO. (Winding-Up), Worcester, Mass.

Wire & Cable Covering Machinery

American Insulating Machinery Co., Hancock & Oxford, Phila., Pa.
Farrel Foundry & Machine Co., Ansonia, Conn.
Moore, S. L. & Sons Corp., Elizabeth, N. J.
New England Butt Co., Providence, R. I.
Rhode Island Braiding Machine Co., Providence, R. I.
Royle, John & Sons (Inc.) (Leather Tuhing & Insulating), Paterson, N. J.
Textile Machine Works (Inc.), Reading, Pa.
Tunelins Machine Co., 232 S Clinton, Chicago, Ill.
Universal Winding Co., Boston, Mass.
Watson Machine Co., Paterson, N. J.
WATSON-STILLMAN CO. (Cable Covering), 50 Church, New York. (See adv. index, end of book)

Wire & Cable Polishing Machines

New England Butt Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

Wood Band Sawing Machines

(See Band Sawing Machines)

Wood Barking Machines

Appleton Machine Co., Appleton, Wis.
Bellows Falls Machine Co., Bellows Falls, Vt.
Holyoke Machine Co., Holyoke, Mass.
Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.
Scott, Olin, Bennington, Vt.
Trevor Mfg. Co., Lockport, N. Y.
Valley Iron Works Co., Appleton, Wis.
Webber & Philbrick, Waterville, Me.

Wood Bending Machines

Defiance Machine Works (Rim, Felloe, etc.), Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Root, B. M., Co., York, Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Superior Iron Works, Superior, Wis.

Wood Boring Machines

(See also Pneumatic Wood Boring Machines)

Ajax Mfg. Co. ("Ajax" & "Phillips" Automatic), Allegheny, Pa.
American Wood Working Machinery, Rochester, N. Y., & West Street bldg, New York
Andrew, M. L. & Co. (Multiple Spindles), 2852 Spring Grove av, Cincinnati, O.
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Berlin Machine Works, Beloit, Wis.
Bentel & Margedant Co., Hamilton, O.
Carey, Wilson W., Lowell, Mass.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rehtin Co., Cincinnati, O.
Crowdrey, C. H. Machine Works, Fitchburg, Mass.
Defiance Machine Works, Defiance, O.
Denus Machine Co., Jackson, Mich.
Eagle Square Mfg. Co. (Carpenters' Hand), South Shaftsbury, Vt.
Erle Machine Shops, Erie, Pa.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer, E., Machine Works (Multiple Adjustable), 710 Carroll av, Chicago, Ill.
Frank Machinery Co., Buffalo, N. Y.
Garvin Machine Co., Varick & Spring, New York
Greenlee Bros. & Co., Railway Exchange bldg, Chicago, Ill. Factory: Rockford, Ill.
Heath, W. A. Machine Co., Lestershire, N. Y.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machinery Co., Buffalo, N. Y.
Nash, J. M. (Universal Multiple), Milwaukee, Wis.
Oher Mfg. Co. (Combined Boring & Chucking), Chagrin Falls, O.
Oliver Machinery Co., Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Pringle & Brodie Machinery Co. (Multiple Spindle, Vertical & Horizontal), 277 S Canal, Chicago, Ill.
Seymour & Whitlock, Newark, N. J.

Smith, H. B. Machine Co., Smithville, N. J.
Superior Iron Works, Superior, Wis.
White, Jno. A. Co., Dover, N. H.
Yerkes & Flann Woodworking Machine Co., St. Louis, Mo.

Wood Boring Machines (Multiple)

Fischer, E., Machine Works (Adjustable), 345 Canal, Chicago, Ill.
WRIGHT WIRE CO., Worcester, Mass.

Wood Bundling Machines

Green Mfg. Co., 296 Oakland, Brooklyn, N. Y.

Wood Carving Machines

American Steam Pump Co., Battle Creek, Mich.
American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
Fay, J. A. & Egan Co., Cincinnati, O.
Moore Carving Machine Co. ("Lochmuir Moore"), Minneapolis, Minn.
Porter, C. O. & A. D., Grand Rapids, Mich.
Yerkes & Flann Woodworking Machine Co., St. Louis, Mo.

Wood Cutting-Off Machines

Adams, W. T. Machine Co., Corinth, Miss.
ALLIS-CHALMERS CO. (Steam Feed Cutting-Off Saws), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Barnes, W. F. & John Co. (Foot & Power), Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rehtin Co., Cincinnati, O.
Dadds, Alexander, Grand Rapids, Mich.
Fischer, E., Machine Works (Double & Automatic Self-Feed Cut-Off Saws), 710 Carroll av, Chicago, Ill.
Frank Machinery Co., Buffalo, N. Y.
Garland, M. Co. (Combined with Conveyors), Bay City, Mich.
Hall & Brown Woodworking Machine Co. (Carriage Cut-Off Sawlog Machines), 1917 N B'way, St. Louis, Mo.
Hayes, E. B. Machine Co., Oshkosh, Wis.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.
Hurlbut-Rogers Machine Co., South Sudbury, Mass.
Kline, Lewis T., Alpena, Mich.
Lane Mfg. Co., Montpelier, Vt.
Lovell, F. S. Machine Works, Fitchburg, Mass.
Luther, B. G. & Co. (Double Cut-off), Worcester, Mass.
Marston, J. M. & Co. (Hand), Boston, Mass.
Mecklenburg Iron Works, Charlotte, N. C.
Power, L. & Co., 20 S 23d, Phila., Pa.
Slidney Tool Co. (Cut-Off Saws for Wagon Makers), Slidney, O.
Smith, H. B. Machine Co. (Also Pendulum or Swing), Smithville, N. J.
Union Iron Works, Baugor, Me.
Wicks Bros., Saginaw, Mich.
Yerkes & Flann Woodworking Machine Co., St. Louis, Mo.

Wood Embossing Machines

(See Embossing Machines)

Wood Fibre Machinery

(See Fibre Machinery)

Wood Flooring Machines

American Wood Working Machinery Co., Rochester, N. Y., & West St. bldg, New York
Fay, J. A. & Egan Co., Cincinnati, O.
Hall & Brown Woodworking Machine Co., 1917 N B'way, St. Louis, Mo.
Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.
Moltz, Jacob J., Williamsport, Pa.
Power, L. & Co., 20 S 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
Woods, S. A. Machine Co., 445 Dorchester av, Boston, Mass.

Wood Fluting Machines

Shawver Co., Springfield, O.

Wood Gang Drilling Machines

Fay, J. A. & Egan Co., Cincinnati, O.
Williams, White & Co. 6 to 10 Holes), Moline, Ill.

Wood Gang Sawing Machines

Bentel & Margedant Co., Hamilton, O.
Bradley, H. C. (To Cut up Stock), Bridgeport, Conn.
Fischer, E. Machine Works (Cutting-up Saws), 710 Carroll av., Chicago, Ill.

Wood Graining Machines

Grand Rapids Panel Co., Grand Rapids, Mich.

Wood Mitreing Machines

McFarlan & Spliker Mfg. Co., 1652 Dorman, Cincinnati, O.
Oliver Machinery Co. ("Oliver"), Grand Rapids, Mich.

Wood Mortising Machines

American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg., New York
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Barnes, W. F. & Jno. Co. (Hand & Foot Power), Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Defiance Machine Works, Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Greenlee Bros. & Co., Railway Exchange bldg., Chicago, Ill. Factory, Rockford, Ill.
Health, W. A., Machine Co. (Chair), Lester shire, N. Y.
Hobbs Mfg. Co., Worcester, Mass.
Miller, Albert W. Mfg. Co. ("Miller's" Hand), 5th & Sycamore, Cincinnati, O.
Oliver Machinery Co. ("Oliver"), Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Princess Mfg. Co. ("Princess" Automatic), 456 E 2d, Cincinnati, O.
Seneca Falls Mfg. Co. (Foot Power), Seneca Falls, N. Y.
Seymour & Whitlock, 43 Lawrence, Newark, N. J.
Smith, H. B. Machine Co., Smithville, N. J.

STRONG, CARLISLE & HAMMOND
Co., 336-344 Frankfort av., N W Cleveland, O. (See adv. Index, end of book)
Yerkes & Finan Woodworking Machine Co. (Cabinet, Hollow, Chisel, etc.), St. Louis, Mo.

Wood Moulding Machines

American Steam Pump Co. ("Boult's" Battle Creek, Mich.
American Wood Working Machinery Co., Rochester, N. Y., & West st. bldg., New York
Barnes, W. F. & Jno. Co. (Hand & Foot Power), Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Central Machine Works Co. (Double Spindle Shaping & Variety Moulding Machine), Minneapolis, Minn.
Colladay, Jos. O., 626 Race, Phila., Pa.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
De Loach Mill Mfg. Co., Bridgeport, Ala.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Gleason Works, Rochester, N. Y.
Hall & Brown Woodworking Machine Co., 1917 N B'way, St. Louis, Mo.
Power, L. & Co. (Est. of), 22 S 23d, Phila., Pa.
Seneca Falls Mfg. Co. (Hand & Foot Power), Seneca Falls, N. Y.
Seymour & Whitlock, Newark, N. J.
Shawyer Co. (Twist Moulding, etc.), Springfield, O.
Smith, H. B. Machine Co., Smithville, N. J.
Thomson, W. S., 418 W 27th, New York
White, Jno. A. & Co., Dover, N. H.
Woods, S. A. Machine Co., Boston, Mass.
Yerkes & Finan Wood Working Machine Co., 3143 N 9th, St. Louis, Mo.

Wood Paneling Machines

American Steam Pump Co., Battle Creek, Mich.

Wood Pipe Boring Machines

Bentel & Margedant Co., Hamilton, O.

Wood Polishing Machines

American Wood Working Machinery Co., Rochester, N. Y., & West st. bldg., New York
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.

Builders' Iron Foundry, Providence, R. I.
Fay, J. A. & Egan Co., Cincinnati, O.
Fox Machine Co., Grand Rapids, Mich.
Klotz Machine Co., Sandusky, O.
Nash, J. M., Milwaukee, Wis.

Wood Printing Machines

(See Box Board Printing Machines)

Wood Ring & Valve Handle Machines

Pringle & Brodie Machinery Co., 277 S Carroll, Chicago, Ill.

Wood Rubbing Machines

Moore Carving Machine Co. ("Victor Imperial"), Minneapolis, Minn.

Wood Sawing Machines

Aithouse-Wheeler Co. (Sawing Machines with Swing Saw Table), Waupun, Wis.
American Sawmill Machinery Co., 50 Church, New York, & Hackettstown, N. J.
American Steam Pump Co. (Shop Saws), Battle Creek, Mich.
Baker Mfg. Co., Evansville, Wis.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Bentel & Margedant Co., Hamilton, O.
Burlingame, A. Co., Worcester, Mass.
Challenge Co. (All Steel, Tilting & Sliding Table), Batavia, Ill.
Chattanooga Machine Co. (Splitting), Chattanooga, Tenn.
Comstock, Geo. S. (Circular), Mechanicsburg, Pa.
Davis, Geo. E., Dubuque, Ia.
Ellis Keystone Agricultural Works (Circular Saw), Pottstown, Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Foss Gas Engine Co. (Circular Saw for Cord Wood)

Gehl Bros. Mfg. Co., West Bend, Wis.
Globe Foundry & Machine Co. (Circular & Pole Saw for Cord Wood), Sheboygan, Wis.
Gowanda Agricultural Works Co. (Wood Mill with Jack), Gowanda, N. Y.
Greenville Implement Co., Greenville, Mich.
Hemingway, Jno., Lynn, Mass.
Heebner & Sons ("Daisy"), Lansdale, Pa.
Hill, W. E. & Co. (For Pulp Mills), Kalamazoo, Mich.
Howel, R. R. Co., 31st av c S E 4th, Minneapolis, Minn.
Huntsville Fdy. & Machine Works, Huntsville, Ala.
Lyon Iron Works, Greene, N. Y.
Marselles Mfg. Co., Marselles, Ill.
Messinger Mfg. Co. (Swinging & Sliding Table), Tatamy, Pa.
New Winona Mfg. Co. (Portable Wood Saws of Various Kinds), Winona, Minn.
Port Huron Engine & Thresher Co. (Sawing Only), Port Huron, Mich.
Rowell, I. B. Co., Monomonee Falls, Wis.
Sandwich Mfg. Co. (Sawing), Sandwich, Ill.
Smith & Pomeroy Windmill Co. ("Eureka"), Kalamazoo, Mich.
Spangler Mfg. Co. (Quickel's Splitting & Sawing), York, Pa.
Sweetser, Wm. A. (Splitting), Brockton, Mass.
Thompson, J. & Sons, Mfg. Co., Beloit, Wis.
Wheland Machine Works, Chattanooga, Tenn.

Wood Sawing & Splitting Machinery

(See also Kindling Wood Machinery)

Baker, Wm. H. ("Baker" Splitting), Trenton, N. J.
Codd, E. J. Co. ("Splittings Only"), 700-708 S Caroline, Baltimore, Md.
Glascock Store & Mfg. Co. (Sawing & Splitting), Greensboro, N. C.
Globe Foundry & Machine Co. (Circular & Pole Saw for Cord Wood), Sheboygan, Wis.
Hill, W. E. & Co. (For Pulp Mills), Kalamazoo, Mich.
Smalley Mfg. Co. ("Battle Creek" Splitting & Sawing), Manitowoc, Wis.
Spangler Mfg. Co. (Quickel's Splitting & Sawing), York, Pa.

Wood Screw Machinery

Cook, Asa S. Co., Hartford, Conn.
Manville, E. J., Machine Co., Waterbury, Conn.

Wood Shaping Machines

(See Shaping Machines, Wood)

Wood Shaping & Variety Moulding Machines

Central Machine Works Co. (Double Spindle), Minneapolis, Minn.

Wood Surfacing Machines

American Woodworking Machinery Co., Rochester, N. Y., & West Street bldg., New York
Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
Bentel & Margedant Co., Hamilton, O.
Connell & Dengler Machine Co., Rochester, N. Y.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Dennis Machine Co., Jackson, Mich.
Fay, J. A. & Egan Co., Cincinnati, O.
Fischer, E., Machine Works, 710 Carroll av., Chicago, Ill.

Hobbs Mfg. Co., Worcester, Mass.
Oliver Machinery Co., Grand Rapids, Mich.
Power, L. & Co., 20 S. 23d, Phila., Pa.
STRONG, CARLISLE & HAMMOND
Co., 336-344 Frankfort av., N W, Cleveland, Ohio. (See adv. Index, end of book)

Wood Tenoning Machines

American Woodworking Machinery Co., Rochester, N. Y., & West Street bldg., New York
Atlantic Works, (Inc.), 28th & Gray's Ferry rd., Phila., Pa.
Barnes, W. F. & John Co., Rockford, Ill.
Bentel & Margedant Co., Hamilton, O.
Cordesman, Meyer & Co., Cincinnati, O.
Cordesman, Rechtin Co., Cincinnati, O.
Defiance Machine Works (Chuckling & Tenoning), Defiance, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Greenlee Bros. & Co. (Car Tenoner, etc.), Railway Exchange bldg., Chicago, Ill. Factory, Rockford, Ill.
Hayes, E. B. Machine Co. (Double End), Jshkosh, Wis.
Heath, W. A. Machine Co., Lestershire, N. Y.
Hoobs Mfg. Co., Worcester, Mass.
Kane & Roach, Syracuse, N. Y.
Power, L. & Co., 20 S. 23d, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J.
STRONG, CARLISLE & HAMMOND
Co., 336-344 Frankfort av., N W, Cleveland, Ohio. (See adv. Index, end of book)
Vulcan Iron Works ("Universal" Tenon & Boring Machines), Mason City, Iowa
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Wood Trimming Machines

Adams, W. T. Machine Co., Corinth, Miss.
Cadillac Motor Car Co., Detroit, Mich.
Chattanooga Machinery Co. (Ironsides), Chattanooga, Tenn.
Fox Machine Co., Grand Rapids, Mich.
Lane Mfg. Co., Montpelier, Vt.
Oliver Machinery Co. ("Oliver"), Grand Rapids, Mich.
Perkins & Co. ("Perkins" Bench Draw Stroke Trimmer), Grand Rapids, Mich.
Tyler, J. L. (Combination Trimmer & Mitre Cutter), Lynn, Mass.
Washburn Shops of the Polytechnic Institute, Worcester, Mass.

Wood Twisting Machines

Shawyer Co., Springfield, O.

Wood Working Machinery

(See Specific Article Required)

Wood Working Machinery (Hand & Foot Power)

Barnes Tool Co., 958 Grand av., New Haven, Conn.
Barnes, W. F. & Jno. Co., Rockford, Ill.
Crescent Machine Co., Leetonla, O.
Marston, J. M. & Co., Boston, Mass.
Parks Ball Bearing Machine Co., Knowlton & Fergus, Cincinnati, O.
Seneca Falls Mfg. Co. (Foot Power), Seneca Falls, N. Y.

Wooden Corking Machines

Redlich Mfg. Co., 2 Oak, Chicago, Ill.

Woodenware Machinery

Gerlach, Peter Co. (Pail, Tub, Churn, Keg, etc.), Cleveland, O.

Woolen Machinery

(See Textile Machinery. For page number consult Index of Contents)

Woven Wire Fence MachinesKitselman Bros., Muncie, Ind.
Peerless Fence Co., Holly, Mich.**Woven Wire Mattress Machinery**(See also Wire Mattress Machinery)
Erlandsen, Julius, 172 Centre, New York**Wrapper Cutting Machines**

Shirk, P. E., Blue Ball, Pa.

Wrapping Machines (Fruit & Merchandise)Consolidated Wrapping Machine Co., Springfield, Mass.
New York Wrapping Machine Co. (For Chocolate, Gum Candies, Soap, etc.), 52 Wall, New York**Wrapping Machines (Rubber Mill)**Birmingham Iron Foundry, Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.
Watson Machine Co., Paterson, N. J.**Wrench Machinery**

Gould & Eberhardt, Newark, N. J.

Writerpress MachinesWriterpress Co. (For Perfect Imitation of Typewriting), Buffalo, N. Y.
(END OF MACHINERY)**Machinery Dealers (New & Second Hand)**

(See also Mill & Factory Supplies)

ALABAMA.BIRMINGHAM—Birmingham Machine & Foundry Co., dry Co.
Lum, Geo. E. Machine & Supply Co. (Engines, Boilers, Saw Mill & Mining Machinery, etc.)
Moore & Handley Hardware Co. (Engines, Boilers, Pumps, etc.)
Shook & Fletcher (Machinery, Boilers, etc.)
Williamson Iron Co., 1420 18th av
Yates, J. A. & Co. (Mining Machinery)
BRIDGEPORT—De Loach Mill Mfg. Co.
MOBILE—Alabama Iron Works
Barney, Cavanagh Hdw. Co.
Mellett, Richard
MONTGOMERY—Cardwell, W. R.
Janney, A. A. & Co.
Lum Machinery Co. (Engines, Boilers, Pump, etc.)
SELMA—Union Iron Works Co.**ARIZONA TERRITORY.**PHOENIX—Thayer, Ezra W. (Engines, Mining Machinery & Agricultural Implements, etc.)
TUCSON—Gardiner, Worthen & Goss Co.**ARKANSAS.**CAMDEN—Camden Hardware & Mill Supply Co. (Engines, Pumps, Saw Mill Machinery, etc.)
DARDANELLE—Cox, Thos. Machinery Co.
LITTLE ROCK—Arkansas Pump & Pipe Co.
Cox, Thos. & Sons Machinery Co.
Jones, D. E. Co.
Rosenbaum, C. E. Machinery Co.
Wehrfritz, E. C. Machinery & Supply Co.
MORRILTON—Delong Machinery Co.
PINE BLUFF—Dilley Foundry Co.
Fox-Harris Machine & Supply Co.
STUTTGART—Whaley, J. F.**CALIFORNIA.**LOS ANGELES—Baker Iron Works, 950 Buena Vista
Booth, Levi & Sons (Inc.), 262 S Los Angeles
Busch, A. H. Co., 150 N Los Angeles
FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 136 Los Angeles. (See adv. index, end of book)

Fulton Engine Works (Engines, Boilers, Mining, Saw Mill)

Harper & Reynolds Co.
Harron, Rickard & McCone (Inc.) (Engine, Electrical, Woodworking, Machinery, etc.)Machinery & Electrical Co., 353 N Main
Pacific Coast Mfg. Co., 126 S Los Angeles
Smith, Samuel J. Machinery Co., 212 S Los Angeles

Southwestern Machinery & Supply Co., 4th & Spring

Union Iron Works of Los Angeles, Molino, c Palmetto

OAKLAND—United Iron Works

RIVERSIDE—Riverside Foundry & Machine Works

SAN DIEGO—Sterne Bros. Co.

SAN FRANCISCO—Baker & Hamilton (Engines, Boilers, etc.), 3d & Berry

Compressed Air Machinery Co., Jessie & Ecker

Doble, Abner Co., Fremont & Howard

Dunham, Carrigan & Hayden Co. (Hydraulic, etc.), 131 Kansas

Eby Machinery Co., 268 Market

FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), 158 1st. (See adv. index, end of book)

Garratt, W. T. & Co. (Inc.) (Engines, Boilers, Pumps, etc.), Fremont & Natoma

Globe Engineering Co., 1937 Market

Harron, Rickard & McCone (Inc.) (Mining, Saw Mill, Woodworking, Engines, etc.), 461 Market

Hendy, Joshua Iron Works (Engines, Pumps & Mining Machinery), 75 Fremont

Henshaw, Bulkley & Co., 19 Fremont

Judson Mfg. Co., 819 Folsom

Krogh Mfg. Co., 159 Beale

Livermore, Norman B. & Co. (Engines, Boilers, Pumps, Steam Shovels, Dredges, etc.), Metropolis Bank bldg

McIntosh & Wolpmann

Marwedel, C. W., 258 9th

Moore, Chas. C. & Co., 99 1st

Moore & Scott Iron Works (Mining & Hoisting Machinery)

O'Brien, M. (Flour Mill, Brewery, etc.), 142 1st

Pacific Tool & Supply Co. (Metal Working Machinery & Supplies), Fremont & Mission

Ridson Iron Works, Stuart & Folsom

Simonds Mfg. Co., 21 Natoma

United Iron Works

Wagner, Jos. Mfg. Co. (Flour Mill, etc.), 165 Beale

Ward, Fred & Son, 200 1st

White, H. S. Machinery Co., 9th & Bryant

SAN JOSE—Wight, David

COLORADO.

DENVER—Colorado Iron Works Co. (Mining, Denver Engineering Works Co. etc.)

Denver Metal Co. (Machinery Jobbers)

FAIRBANKS, MORSE & CO. (Engineer, Boilers, Pumps, etc.), 1600 17th. (See adv. index, end of book)

Flint Lomax Electric & Mfg. Co.

Great Western Machinery Co.

Minc & Smelter Supply Co. (Engines, Boilers, Pumps, etc.), 17th & Blake

Morse Bros. Machinery & Supply Co. (Mining Machinery, Hoisting Engines, etc.)

S-H Supply Co. (Mining Machinery, Engines, Boilers, Compressors, Drills, etc.)

Scott Supply & Tool Co. (Engines, Boilers, Pumps, etc.), 1725 Blake

Stearns-Roger Mfg. Co., 1718 California

Wilkes, Gilbert & Co., 502 McPhee B

LEADVILLE—McCarty & Moore

CONNECTICUT.

HARTFORD—Pickering, W. H. & Co., 110 Commerce

DELAWARE.

WILMINGTON—Delaware Electric & Supply Co. (Engines, Pumps, etc.)

Speakman Supply & Pipe Co., 113 Market

DISTRICT OF COLUMBIA.

WASHINGTON—Littlefield, Alvord & Co., 26th & D N W

FLORIDA.JACKSONVILLE—Christopher, Jno. G. Co.
Florida Electric Co. (Engines, Boilers, Dynamos, etc.)

Hubbard, S. B. Co.

LAKE CITY—Johnson, L. W.

GEORGIA.

ATHENS—Athens Foundry & Machine Works

ATLANTA—American Machinery Co., 49 S Forsyth

Austin, W. E. Co. (Concrete, Stone & Ore Crushing Machinery, etc.)

Avery & Co. (Saw Mill, etc.), 70 S Forsyth

Malsby Co., 41 S Forsyth

AUGUSTA—Georgia Iron Works

Lombard Iron Works & Supply Co. (Engines, Boilers, Saw Mills, etc.)

BRUNSWICK—Bay Iron Works

COLUMBUS—Columbus Iron Works Co.

Golden's Foundry & Machine Co.

MACON—Findlay Iron Works Co. (Inc.)

Mallory Bros. Machinery Co. (Engines, Boilers, Cotton, Gins, Saw Mill Machinery, etc.)

Schofield's, J. S. Sons Co. (Engines, Pumps, Saw Mills, etc.)

ROME—Batter Machinery Co.

SAVANNAH—Georgia Supply Co.

Hartfelder-Garbutt Co. (Engines, Boilers, etc.)

Kehoe, Wm. & Sons (Machinery of All Kinds, Boilers, etc.)

Rourke, Jno. & Sons

TOCCOA—Simpson & Co.

HAWAII.

HONOLULU—Von Hamm-Young Co. (Ltd.)

ILLINOIS.

BLOOMINGTON—Keiser-Van Leer Co. (Engines, Pumps, etc.)

CAIRO—Reed, J. B. (Iron Working Tools, etc.)

CHICAGO—Adkins, Young & Allen Co., 14 N Canal

AMERICAN HOIST & DERRICK Co., 60 S Canal. (See adv. index, end of book)

Burrell Mfg. Co., 251 S Jefferson

Chicago Brick Machinery Co., 77 E Jackson

Chicago Engineer Supply Co., 112 Lake

Chicago House Wrecking Co., 35th & Iron

Cook & Chick Co., 253 Kinzie

Curtis & Mfg. Co., 53 N Desplaines

Erwin & Co., 56 Dearborn

FAIRBANKS, MORSE & CO. (Engines, Boilers, Pumps, etc.), Wabash av & El

dredge pl. (See adv. index, end of book)

Gould Co. (Pumps, etc.), Ohio & Franklin

Gregory Electric Co. (Electric), 16th & Lincoln

Harris, Sam'l & Co. (Machine Shop Machinery, Tools, etc.), 25 S Clinton

Henion & Hnbell (Pumps, Steam, Power, Electric, Hand, etc.), 63 N Jefferson

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Bell, Wildman & Co. lor
Dayton Hdw. Co., 1st & Taylor
FAIRBANKS, MORSE & CO. (En-
gines, Boilers, Pumps, etc.), 1st &
Stark. (See adv. index, end of book)
Gauld Co. (Engines, Pumps, etc.)
Honeyman Hardware Co.
Mitchell, Lewis & Staver Co., 1st & Taylor
Portland Iron Works, 495 Northrup
Portland Machinery Co., 62 1st
Simonds Mfg. Co.
Tatum & Bowen, 35 1st
Western Supply Co. (Flour & Saw Mill
Machinery)

PENNSYLVANIA.

ALLEGHENY—Carlin Machinery & Supply
Co.
CARLIN'S, THOS. SONS CO., 1610
River av. (See adv. index, end of book)
Young, Jno. S., 108 Parkway
ALLENTOWN—Allentown Foundry & Ma-
chine Works (Engines, Boilers, etc.)
Grammes, L. F. & Sons (Engines & Power
Transmitting Appliances, etc.)
Taylor, Wm. H. & Co. (Engines, Boilers,
Yeakei, S. H. Pumps, etc.)
BRADFORD—Bovaird & Seyfang Mfg. Co.
CHESTER—Birtwell, H. B.
DOYLESTOWN—Rufe Bros.
ERIE—Erie Machine Shops
Erie Mfg. & Supply Co. (Engines, Boilers,
etc.)
Link, E. M. Machinery Co. (Engines, Boil-
ers, Saw Mill Machinery, etc.)
HARRISBURG—Gardner, Chas. H.
McKillips, A. (Machinery, Pulleys, Hangers,
Mather, Edmund etc.)
HAZLETON—Hazleton Mach'y & Supply Co.
HOLLIDAYSBURG—McLanahan Stone Machine
Co
LANCASTER—Central Machine Works.
Hahn, J. F. (Engines, Boilers, Pumps &
LATROBE—Saxman, P. H. Machinery)
MAUCH CHUNK—Stroh, W. H. (Est. of)
OIL CITY—Logan, Robert (Engines, Boilers
& Machinery)

PHILADELPHIA—Bally, R. M. & Co. (Loco-
motive Cranes, Steam Shovels, Hoisting
Engines, Boiler Making, Ship Building,
Structural Work, Machinery, etc.), Ar-
cade bldg

Bowman, H. L. & Co., 31 S 4th
Burchfield, T. T. Co. (Engines, Boilers,
Pumps, etc.), 54 N 6th
Campbell, T. J., 974 Beach
Conard, Thos. P. & Co. (New & Second
Hand), 2 S. 15th
Dallett & Co. (Locomotives, Steam Shov-
els, etc.), Harrison bldg.
Eckbold, Wm. Sons, 707 E. Girard av
Fairbank Co., 701 Arch
Francis Bros. & Jellett (Inc.), N Broad &
Wallace
Fraser, E. L. (Machinery & Tools), 48 N 6th
Gifford, C. H. & Co., 135 N 3d
GRISCOM-SPENCER CO. (Boilers,
etc.), ft Washington av. (See adv. in-
dex, end of book)

Haddock, Chas., 343 N. 3d
Henning, Jno. & Son, 1016 E Susquehanna
at
Hill, Clark & Co. (Iron & Woodworking),
512 Arch
Hitner's, Henry A. Sons Co., Huntington
Aramingo av
Jefferson, Edw. & Bro. (Machine & Mill
Furnishers), 127 S 2d
Kaiser, A. V. & Co. (Second Hand Engines,
Pumps, Locomotive Boilers, Air Com-
pressors, etc.), Drexel bldg

Lamb, J. K. (Textile), 246 Chestnut
Latimer, R. L. & Co. (Engines, Boilers,
Pumps, etc.), 24 N From
Lovegrove & Co. (Engines, Boilers, Ma-
chinery & Machine Tools), 143 N 3d
Manning, Maxwell & Moore (All Kinds),
Nuttall, Jno., 1723 N 5th 721 Arch
Philadelphia Machinery & Supply Co., Perry
bldg
Purves Machinery & Iron Co., South c Water
Rich, J. & G., 120 N 6th
Schmitt, Jos. L., 1501 N 2d
Seyfert's, L. F. Sons, 437 N 3d
Shipley, W. E. Machinery Co. (Machine
Tools), Bourse bldg
Swoboda, H. Co., 419 N 3d
Toomey, Frank (Engines, Pumps & Ma-
chinery), 127 N 3d
Yearsley, Levene & Co. (Electric, etc.), 211
N 3d

PITTSBURG—Baird Machinery Co., 123 Water
Brown & Zortman Machinery Co. (Machine
Tools, etc.)

CONTRACTORS' SUPPLY & EQUIP-
ment Co. (Engines, Pumps, Rock Crush-
ers, etc.), Victoria bldg. (See adv. in-
dex, end of book)

Dravo, Doyle Co., Lewis blk
Frick & Lindsay Co. (Engines, Boilers,
Pumps, etc.), 109 Wood
Green, L. A. Co., Park bldg
Hay's, Samuel W. Sons (Steam & Gas En-
gines & Metal Working Machinery, etc.)
Lees-Williams Co.
Manning, Maxwell & Moore (All Kinds),
Park bldg

OIL WELL SUPPLY CO., 215
Water. (See adv. index, end of book)
PITTSBURGH GAGE & SUPPLY
Co. (Pumps, etc.), 30th & Liberty av.
(See adv. index, end of book)

Rees, Jas. & Sons Co., 18 4th
Renton, Wm., 101 Water
Russell Machine Co., 28th & Spruce av
Smith, Chas. G. Co., Park bldg.
Somers, Fittler & Toda Co. (Engines,
Boilers, Pumps & Mach'y), 327 Water
Tranter Mfg. Co. (Engines, New & Second
Hand, Pumps, etc.), 105 Water

POTTSVILLE—Sparks & Parker
READING—Selbert, Jno. H. (Engines, Pumps,
Xander Machine & Supply Co. (Ltd.) etc.)

SCRANTON—Derry, A. L. & Co. (Engines,
Scott, Chas. B. Boilers, etc.)
Scranton Supply & Machinery Co. (Engines,
Pumps & Machinery)

SMITHS FERRY—Childs, Jno. (Oil & Gas
Well, etc.)

TUNKHANNOCK—Billings, Paul & Sons
WILKES-BARRE—Huntington Machinery &
Supply Co. (Electric, etc.)
Penna. Supply Co. (Engines, Pumps, & Ma-
chinery)

WILLIAMSPORT—Darling Pump & Mfg. Co.
Link, Jas. H. Machinery Co. (Second Hand
Saw Mill)

Moltz, Jacob J. (Engines, Boilers, etc.)

RHODE ISLAND.

PROVIDENCE—Thomas & Lowe Machinery
Co. (Engines, Pumps, Boilers, etc.)
Thornton, J. T. Machinery Co.

SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co.
Cameron & Barkley Co. (Engines, Pumps
& Machinery)
Charleston Iron Works (Engines, Pumps &
Riverside Iron Works Machinery)
Valk & Murdoch Iron Works (Engines, Boll-
ers, Pumps, etc.)

COLUMBIA—Gibbes Machinery Co.
SPARTANBURG—Morgan Wood & Iron Works
Spartanburg Machinery Co. (Engines; Boll-
ers, Pumps, etc.)

TENNESSEE.

CHATTANOOGA—Chattanooga Machinery Co.
James Supply Co. Montgomery av
Walsh & Weldner Boiler Co., Montgomery
av & Syramore

KNOXVILLE—Southern Brass & Iron Co.
Southern Brass & Iron Co.

MEMPHIS—Chickasaw Iron Works (Engines,
Pumps & Machinery)

Riechman-Crosby Co. (Pumps, Logging
Tools & Lumber Mfrs. Supplies, etc.)

NASHVILLE—Dale, Jno. P. (Engines, Pumps,
Nashville Machine Co. etc.)
Stewart & Bruckner

TEXAS.

BEAUMONT—Wilson, E. L. Hardware Co.
BRENIAM—Roff & Miller
BRYAN—Chatham Machinery Co.
CUERO—Runge, H. & Co.
DALLAS—American Well Wks., 168 Com-
merce
Briggs-Weaver Machinery Co.
Graber, H. W. Machinery Co.
Keating Imp. & Mach. Co., 106 N Jefferson
Mösher Mfg. Co., Lemar & Santa Fe
Wolfe, Ben F. & Co., 175 Main
EL PASO—Mine & Smelter Supply Co.
FORT WORTH—Axtell Co. (Wind Mills, Tanks,
Southern Trading Co. etc.)
Texas Mfg. Co.
Van Zandt-Moore Iron Works (Engines, Boil-
ers, Pumps, Dynamos, Motors, etc.)
HOUSTON—Barden Electric & Machinery Co.
Hartwell Iron Works
Heitman, F. W. Co., 113 Main
Smith, Howard Co. (Engines, Boilers,
Pumps, etc.)
LUFKIN—Lufkin Foundry & Machine Co.
PALESTINE—Dille, Geo. M. & Son
PARIS—Collins & Dulaney
SAN ANTONIO—Alamo Iron Works
Collins-Gunther Co.
San Antonio Machine & Supply Co.
TYLER—Connally, Walter & Co.

UTAH.

SALT LAKE CITY—FAIRBANKS, MORSE
& Co. (Engines, Boilers, Pumps, etc.),
218 S W Temple. (See adv. index, end
Mine & Smelter Supply Co. of hook)
Richmond, F. C. Machinery Co. (Mine,
Mill & Contractors' Machinery)
Salt Lake Hdw. Co.
Silver Bros. Iron Wks Foundry
Silver, Hyram Foundry & Machine Co.
Trent Engineering & Machinery Co.
Utah Mining Machinery & Supply Co.

VERMONT.

BENNINGTON—Scott, Olin
CHESTER—Stearns, F. H. Mfg. & Supply Co.

VIRGINIA.

NORFOLK—Duvall, Geo. W. & Co., 380 Water
Lumley-Dodson Co. (Engines, Boilers,
Price, S. M. Mach'y Co. Pumps, etc.)
Walke, Henry Co. (Engines, Boilers, etc.)
Westbrook, Jno. D., 265 Water
PETERSBURG—Stockell-Myers Hdw. Co.
Stratton & Bragg Co. (Engines, Boilers,
Pumps, etc.)
RICHMOND—Frischkern, H. B., 801 E Cary
Morrison Mach'y & Sup. Co. (All Kinds)
Smith-Courtney Co. (Engines, Boilers, etc.)
Sydnor Pump & Well Co. (Engines, Pumps
& Saw Mill Machinery)

WASHINGTON.

OLYMPIA—Mason, C. Z.
SEATTLE—Caldwell Bros. Co.
Elliott Bay Iron Works (Saw Mill Ma-
chinery, etc.)
Hallidie Machinery Co. (Engines, Boilers,
Pumps, etc.)
Hofius Steel & Equipment Co. (Locomo-
tives, Steam Shovels, etc.)
Kilbourne & Clark Co. (Engines, Dyna-
mos, Motors, etc.)
Meese & Gottfried Co. (Power Transmitting,
Moore, Chas. C. & Co. etc.)
Moore, Chas. C. & Co.
Puget Sound Machinery Depot (Saw &
Shingle Mill Machinery, etc.)
Simonds Mfg. Co.
Star Machinery Co. (All Kinds)
Tatum & Bowen (Machinery of All Kinds)
United Iron Works
SPOKANE — FAIRBANKS, MORSE &
Co. (Engines, Pumps, Boilers, etc.) (See
adv. index, end of book)
Mitchell, Lewis & Staver Co.
National Iron Works
Spokane Hardware Co.
Union Iron Works (Inc.) (Mining Machin-
ery, Engines, etc.)
TACOMA—Caldwell Bros. Co. (Saw Mill &
Wood Working)

WEST VIRGINIA.

CHARLESTON—Capitol City Supply Co.
South Side Foundry & Mach. Works
CLARKSBURG—Osborn's, J. F. Sons
HUNTINGTON—Miller Supply Co.
WESTON—Danser Mfg. & Supply Co.

WISCONSIN.

ASHLAND—Bretting, C. G. Mfg. Co. (Mill Machinery, etc.)
 LA CROSS—McKinzie & Rodemeyer Machine Co.
 MADISON—King & Walker Co. (Engines Pumps & Machinery)
 MILWAUKEE—Galland-Henning Pneumatic Maltng Drum Co., 97 Wisconsin
 Grotenrath, Fred, 111 W Water
 Hide & Leather Working Mach. Co. (Hide & Leather Working Machinery, etc.)
 Lauson, C. P. & J. Co. (Mill Machinery), 30th
 Milwaukee Machinery Co., 31st & Walnut
 Packard, O. L. Machinery Co. (Wood & Iron Working Machinery), 165 W Water
 SMITH, T. L. CO. THE (Engines, Pumps, Rock Crushers, etc.), Majestic bldg. (See adv. index, end of book)
 Wisconsin Machinery & Mfg. Co., Canal, nr Muskego
 Yale, H. P. & Co. (Engines, Pumps, etc.), 99 W. Water
 PINE RIVER—Kimball, A. M. & Son
 RACINE—Racine Engine & Machinery Co.
 WAUSAU—Murray, D. J. Mfg. Co.

Machinery (Second Hand)

(See Machinery Dealers, New & Second Hand)

Machinists' Fine Tools

(See Specific Article Wanted)

Machinists & Founders

Star (*) indicates Machinists.
 Dagger (†) indicates Founders.
 Star & Dagger (*) indicates Machinists & Founders.

Section Mark (§) indicates Brass & Composition Founders.

All Manufacturers of Machinery, Castings, etc., who have a machine shop or foundry are classified under this heading and sub-classified in other parts of the book under the specific article they produce, such as:

Agricultural Implement Manufacturers.
 Brick Machinery, Etc.
 Cars, Various Kinds.
 Cast Iron Pipe, Various Kinds.
 Castings, Various Kinds.
 Cranes, Various Kinds.
 Drills, Various Kinds.
 Dynamos & Motors.
 Elevators.
 Engines, Various Kinds.
 Flour Mill Machinery.
 Gears, Various Kinds.
 Grinders, Various Kinds.
 Hammers, Various Kinds.
 Harrows, sub-classification of Agricultural Implements.

Heaters, Steam & Hot Water.
 Ice & Refrigerating Machinery.
 Lathes, Various Kinds.
 Mining Machinery.
 Paper & Pulp Mill Machinery.
 Plow Manufacturers, sub-classification of Agricultural Implements.

Plumbers' Brass Goods.
 Presses, Various Kinds.
 Radiator Manufacturers.
 Rolling Mill Machinery.
 Saw Mill Machinery.
 Special Machinery.
 Steel Structural Work.
 Stove Manufacturers.
 Textile Machinery.
 Valve Manufacturers, Various Kinds.
 Wheels, Various Kinds, and hundreds of other articles too numerous to mention.

For correlative trades not included under head of Machinists & Founders see:

Automobile Builders.
 Boilers, Steam, Etc.
 Bolt & Nut & Rivet Manufacturers.
 Chains, Various Kinds.
 Cutlery Manufacturers.
 Forgings, Various Kinds.
 Furnace Manufacturers, Hot Air, Etc.
 Gas & Electric Fixture Manufacturers.
 Hardware Manufacturers.
 Rolling Mills & Steel Manufacturers.
 Saw Manufacturers.
 Screw Manufacturers.

For all other kindred classifications consult Index of Contents.

ALABAMA.

ALEXANDER CITY—*§Tallapoosa Foundry & Machine Co.

ANDALUSIA—*†Andalusia Foundry & Machine Shop

ANNISTON—*†Anniston Foundry & Machine Co.

*†CENTRAL FOUNDRY CO. (See New York.) (See adv. index, end of book)

*†Kilby Locomotive & Machine Works (Logging Locomotives, Cars, Wheels & Axles)

*§Lewis Iron Works

*†Union Foundry Co. (Cast Iron Pipe & Fittings, etc.)

*†U. S. Cast Iron Pipe & Foundry Co. (See New York)

*†Western Steel Car & Foundry Co. (See Chicago, Ill.)

ATTALLA—*†Attalla Foundry & Mach. Co.

AVONDALE—†Avondale Stove & Foundry Co. (Stoves)

BESSEMER—*†Bessemer Foundry & Machine Co.

†Bessemer Soil Pipe Co. (Cast Iron Soil Pipe)

*†CENTRAL FOUNDRY CO. (See New York.) (See adv. index, end of book)

†Ragan Foundry & Hollow Ware Co.

*†U. S. Cast Iron Pipe & Foundry Co. (See New York)

BIRMINGHAM—*§Ajax Metal Co. of the South

*†Alabama Consolidated Coal & Iron Co.

†Alabama Mfg. Co. (Hollow Ware)

*†American Cast Iron Pipe Co. (Cast Iron Pipe Mfrs.)

*Beatty, E. T.

*†Beggs Pipe & Foundry Co. (Cast Iron Pipe & Fittings & Castings)

*†Birmingham Car & Mfg. Co. (Cars, etc.)

*†Birmingham Foundry Co.

*†Birmingham Machine & Foundry Co. (Steam Engines, Etc.)

†Birmingham Pipe & Casting Co. (Soil Pipe & Fittings & Castings)

*Birmingham Rail & Locomotive Co.

*†Birmingham Railway, Light & Power Co.

*†Birmingham Steel & Iron Co. (Basic Open Hearth Steel Castings, Forging & General Foundry & Machine Work)

*†Birmingham Stove & Foundry Co. (Stoves, etc.)

*†Caldwell-Watson Fdry. & Mach. Co.

*†Continental Gin Co. (Cotton Gins, etc.)

*†Decatur Car Wheel & Mfg. Co.

*†Dimmick Pipe Co. (Cast Iron Pipe for Gas & Water, Hydrants, Valves, etc.)

*†Enreka Stove Works

*§Gilb. Valentine & Son. (Brass Foundry)

*†Hardie Tynes Mfg. Co. (Corliss Engines, etc.)

*†Johnson, T. F., E Birmingham

*†Johns, J. H.

*†Kilby Frog & Switch Co.

*†Payne & Joubert Machine & Foundry Co.

*†Republic Iron & Steel Co. (See Chicago, Ill.)

*†Richards Iron Works

*†Sloss-Sheffield Steel & Iron Co. (Also Mfrs. of Iron & Steel)

*Southern Bridge Co.

*†Southern Foundry & Machine Works.

†Southern Pipe & Fdry. Co. (Cast Iron Pipe)

*†§Southern Steel Co. (Open Hearth, Grey Iron & Brass Castings, All Consumed by the Company)

*Steward, C. C. Machine Co.

*†Stockham Pipe & Fittings Co. (Cast Iron Soil Pipe & Fittings, Steam Fittings, etc.)

*†Tennessee Coal, Iron & R. R. Co. (Iron & Steel Castings, etc.)

*†Union Foundry & Machine Co.

*†Williamson Iron Co. (Engines, Boilers' Castings, etc.)

BOAZ—†Williamson, E. G.

BREWTON—*†Brewton Iron Works

BRIDGEPORT—*†De Loach Mill Mfg. Co.

*†Gunter Stove & Range Co. (Stoves)

COLUMBIA—*†Jones, A. A.

CULLMAN—*†Ehrensperger, H. (Brass Fdry.)

DECATUR—*†Jervis Foundry & Machine Co.

DEMOPOLIS—*†Demopolis Foundry & Machine Shop

DOTHAM—*†§Dotham Foundry & Machine Co.

ENSLEY—*†Empire Plow Co. (See Cleveland, O.)

*†Ensley Machine & Foundry Co.

*†Tennessee Coal, Iron & R. R. Co.

EVERGREEN—*Alabama Planter Co. (Agr'l Implts.)

FLORENCE—†Cohen Stove & Range Co. (Stoves, Ranges, etc.)

*†Florence Machine & Ry. Supply Co.

*†§Thoele, Phillips Mfg. Co.

FORT PAYNE—†Fort Payne Stove & Foundry Co. (Stoves, etc.)

GADSDEN—†A. & J. Mfg. Co. (Stove)

*†Alabama Iron & Steel Co.

*†Campbell Mfg. & Supply Co. (Plumbers' Supplies, etc.)

*†Coosa Pipe & Foundry Co.

*†Gadsden Car Works

†Gadsden Foundry Co.

*†Gadsden Pipe & Foundry Co. (Soil Pipe, etc.)

*Southern Steel Co.

*Ward, Weller Mfg. Co.

GREENVILLE—*Henderson, C. C. Machine Co.

HARTSELLS—*†§Hartsells Machine Co.

HOLT — *†CENTRAL FOUNDRY CO. (See New York) (See adv. index, end of book)

HUNTSVILLE—*†§Huntsville Foundry & Machine Works (Iron & Brass Fdrs.)

MOBILE — *†§Alabama Iron Works (Iron & Brass Fdrs.)

*Bay City Machine Works

*Buerger, August (Machinist)

*†§Home Industry Iron Works

*†Louisville & Nashville R. R. Foundry & Machine Shops

*†§Mobile Foundry Co.

*Mobile Hydraulic Works

*†Mobile Stove & Pulley Mfg. Co. (Stoves, etc.)

*†Ollinger-Bruce Dry Dock Co.

*†Union Iron Works

MONTGOMERY—*Capitol City Machine Wks.

*†Hartley Boiler Works

*†Janney & Co. (Engines, Saw Mills, Grate Bars, Brass & Iron Castings, etc.)

MORRISVILLE—*†Morris Mfg. Co.

NEW DECATUR—*†L. & N. Ry. Foundry

*New Decatur Machine Co.

NORTH BIRMINGHAM — *†§Birmingham Novelty Works (Light Brass, Grey Iron Castings & Hdw. Specialties)

*Canon Pump Mfg. Co.

*North Birmingham Forge Co.

OPELIKA—*†§Collins Machine Works

OZARK—*Venentine, L. M.

PRATTVILLE—*†Continental Gin Co. (See Birmingham)

SELMA—*†Peacock Iron Works (Engines, Cars, etc.)

*†Union Iron Works Co. (Engines, Locomotives rebuilt, etc.)

SHEFFIELD—*†Gilb. V., & Co. (See Birmingham)

*†King Stove & Range Co. (Stoves)

*†Lowman Lizzie Co. (Stoves)

*†Sheffield Cast Iron Pipe & Foundry Co. (Cast Iron Pipe for Gas & Water)

*†Sheffield Casting & Mfg. Co. (Castings, etc.)

*†Sheffield Iron Works

*†Sheffield Steel Range & Stove Co. (Stoves)

TALLADEGA—*†§Birmingham & Atlantic Ry. Foundry

*†Talladega Machine & Foundry Co.

TUSCALOOSA—*†Strickland Bros. Machine Co.

TUSCUMBIA—*†Rowland, T. T. & Son (Cultivators)

WHISTLER—*†Mobile & Ohio R. R. Foundry

WOODLAWN—*Perryman & Co. (Inc.) (Cotton Seed Machinery)

ALASKA TERRITORY.

JUNEAU—*Forrest, George F.

KETCHIKAN—*Schlotham, W. F.

NOME—*Reed, Charles W.

SKAGWAY—*†§White Pass & Yukon Ry.

TREADWELL—*†Alaska Treadwell Gold Mining Co.

ARIZONA TERRITORY.

CLIFTON—*†§Arizona Copper Co.

DOUGLAS — *†§Copper Queen Consolidated Mining Co.

JEROME—*†United Verde Copper Co.

NOGALES—*†Arizona & Sonora Mfg. Co. Mining Machinery, Castings, etc.)

PHOENIX—*†Arizona Iron Works

*Kunz Bros. & Messinger

Phoenix Machine & Cold Storage Co.

†Williscroft, Geo. R.

PRESCOTT—*†Prescott Iron Works

*Tilton, B. (Machine Shop)

TUCSON—*Deirig, M. W. (Machine Shop)

ARKANSAS.

BATESVILLE—*Kealer, G. H.

BRINKLEY—*†Brinkley Car Works & Mfg. Co.

CAMDEN—*†Waters Foundry Co.

CLARENDON—*†Allen, W. J.

*†Galloway, J. B. Co. (Plow Beams, etc.)

CORNING—*Canfield, R. W.

DARDENELLE—*Cox, Thos. Machinery Co.

*†Partin, W. E.

FAYETTEVILLE—*Sandford & Son.

FOREMAN—*†Ames Shovel & Tool Co. (of Boston, Mass.)

FORT SMITH—*†Ketcham Iron Co. (Engines, etc.)

*†Mehlberger Iron Co.

HARRISON—*†Harrison Foundry & Machine Co.

HELENA—*Allin Machine Works

HOPE—*†Ruggles, C. H.

JONESBORO—*†Jonesboro Iron & Engine Co.

LITTLE ROCK—*†Dickinson Ball Bearing Wheel & Vehicle Co. (Ball Bearing Wheels)

*Little Rock Boiler and Iron Works.
 *Southern Machine Co.
 *†Thomas-Fordyce Mfg. Co.
 *†Wing & Stephens Co. (Engines, etc.)
 MORRILLTON—*†De Long Machinery Co.
 *†Lachowsky, A. A.
 PARAGOUL—*†Roy Plow Co. (Plows, etc.)
 PINE BLUFF—*†Dillie Foundry Co. (Saw Mill Machinery, Castings, etc.)
 *†Lelaun, A. A.
 *†Pine Bluff Iron Works (Iron & Brass Founders)
 POCAHONTAS—*†Pocahontas Bending Works.
 RECTOR—*†Harper, J. C.
 RUSSELLVILLE—*†Russellville Iron Works
 *Sauerman & Bail
 TEXARKANA—*De Marce, Mrs. A. (Engines, Castings, etc.)
 *†Texarkana Iron Works
 VAN BUREN—*Engineering Works. (Industrial Cars, etc.)
 *†Morrell, Jas.

CALIFORNIA.

ALAMEDA—*†Delaney Mfg. Co. (Plumbers' Fittings, etc.)
 *Gorham Engineering Co. (Marine Gas Engines, etc.)
 *Hercules Gas Engine Works (Gas Engines, etc.)
 *Nelson, H. P.
 *†United Iron Works (See San Francisco)
 ALTAVILLE—*†Angels Iron Works
 BAKERSFIELD—*†Bakersfield Iron Works
 BENICIA—*†Benicia Iron Works (Plows, Cultivators, Harrows, etc.)
 BERKELEY—*†Berkeley Iron Works, W. B.
 †Macaulay, H. C. Foundry Co.
 *Schuyler Co. (Tools, etc.)
 *†Van Emon Elevator Co.
 *†Western Mfg. & Supply Co.
 CHICO—*Bullard, Walter (Hay Presses, etc.)
 *†Mery, M. L.
 *†Diamond Match Co. (Engineering Dept.) (Castings & Machy.)
 COALINGA—*†Bunting Iron Works.
 *†Coalinga Iron Works
 COLUSA—*†Wulff, Frank
 DANVILLE—*†Mitchell, A. H.
 EMERYVILLE—*†Johnson Mfg. Co.
 ETNA MILLS—*†Etna Foundry (Inc.)
 EUREKA—*†California Iron Works (Inc.)
 *†Eureka Foundry Co.
 FRESNO—*Central California Machine Wrks.
 †Burnett, J. H. (Gas Engines, etc.)
 *†Fresno Agricultural Works (Inc.) (Agricultural Implements)
 *Hynes & Hollis (Gas Generators, etc.)
 †Novelty Iron Works (Jos. Halford, Prop.)
 *†Traves, Chas. E. (Machinist & Foundry)
 *†Valley Foundry & Machine Works
 *Woodward, R. W. & Co. (Machinists & Agricultural Implements)
 FULLERTON—*†Hiltcher, J. F. & Co.
 GOLETA—*†Mairs, G. F.
 GRASS VALLEY—*†George Bros.
 *†Taylor Foundry & Engineering Co. (Vacuum Filters, Steam Engines, etc.)
 GREENVILLE—*†Anderson, Alex.
 HANFORD—*†Braden Mfg. Co. (Agr'l Impl's, Gasoline Pumps, etc.)
 *Gurnee, B. S.
 HOLLISTER—*†Shackelford, F. M.
 LONG BEACH—*†Butler, F. G. Co. (Acetylene Harbor Iron Works Machinery, etc.)
 LOS ANGELES—*†Acme Brass Foundry Co. (Brass & Bronze Castings, etc.)
 *†Advance Machine Co.
 *†Axelson Machine Co. (Brass Fdrs. & Machinists)
 *†Bailey Ornamental Iron Co.
 *†Baker Iron Works
 *†Brown-Winstanley Mfg. Co. (Machinery Specialties)
 †Bruce, Thos. P. (Plumbers' Goods)
 *Buttress Mfg. Co.
 †California Stove Mfg. Co.
 *†California Well Tool & Machine Works
 *†Carr Engineering Co.
 *Commercial Engine Co., 953 N Main
 *Dixon Machine Works (Oil Burners, General Machinists)
 *Enterprise Machine Works
 *†Fruhling, A. G.
 *†Fulton Engine Works (Inc.) (Mining, Oil Well & Saw Mill Machinery & Iron & Harrison, C. W. Brass Castings, etc.)
 *†Hutchison, W. G. Co. (Brass Fdrs, etc.)
 *†Johnson Foundry & Machine Works
 *†Jones, Jas. Co. (Brass Fdrs.)
 *†Keystone Iron Works
 *†Killer-Griffith Mfg. Co. (Cultivators, etc.)
 †Lacy Mfg. Co. (Iron Pipe, etc.)
 *Leach, H. M.
 *Livingston & Lee. (Gas Engines, etc.)
 *†Llewellyn Iron Works (Iron & Brass Founders, etc.)
 *†Los Angeles Mfg. Co. (Pipes, Tanks, etc.)
 *Los Angeles Engine Works

*†Los Angeles Foundry Co.
 *†Los Angeles Gas & Elec. Fixture Mch. Co. (Brass Fdrs, etc.)
 *Los Angeles Ice Machine Works (Ice Machines & 'Stone' Pipe & Automobile Wrenches)
 †Los Angeles Stove Co. (Stoves, Castings, etc.)
 *†McCan Mechanical Works (Iron & Brass Foundry, Pattern Shop, Machine Shop, etc.)
 *Maine Machine Works
 *Meese & Gottfried Co. (Pulleys, etc.)
 *Mills Iron Works
 *Norton Engine & Power Co. (Gas Engines)
 *†O'Neill, A. S., Co.
 *†Pacific Coast Mfg. Co.
 *†Pacific Electric Railway Co.
 *†Pacific Stove Co. (Stoves, etc.)
 *†Pacific Surgical Mfg. Co. (Surgical Instruments)
 *†Parmelee, Z. L., Co.
 *†Phillips Heating, Vent. & Mfg. Co. (Hot Air Furnaces, etc.)
 *†Pilgrim Iron Works (Rock Crushers, Power Transmission, Hoists & All Kinds of Mining Machinery)
 *Pioneer Boiler & Machine Works (Machinists)
 *Simonds, F. K. Co. (Iron Pipe, etc.)
 *Sjostrom, Victor, Machine & Metal Works
 *Speer Gas Machine Mfg. Co. (Gas Machines)
 *Stearns Gas Engine Works (Engines, Plows & Pumps)
 *Stewart, A. C.
 *†Tennessee Iron Works
 *†Sunset Iron Works
 *Thacker, F. L.
 *†Titus Iron Works
 *Trinkkeller, E. (Ornamental Iron)
 *†Union Iron Works (of Los Angeles)
 *†Union Oil Tool Co. (Oil Well Tools)
 †United Casting Co.
 *†United Iron Works (Centrifugal Pumps & Mining Machinery, etc.)
 *Universal Machine & Tool Works
 *Vulcan Iron & Tool Works
 *Wallace-Lindsmith Hoist Co.
 *†Washington Iron Works
 *†Western Gas Engine Co. (Gas Engines)
 *Wigmore, John, & Sons Co. (Machine Tools, etc.)
 *Wilgus Mfg. Co.
 MARYSVILLE—*†Empire Foundry (Harvesters, Castings, etc.)
 *†Marysville Machine Works (Pumps, Mining Mach'y, etc.)
 *Ogden, J. G.
 *Yuba Construction Co.
 MELROSE—*†Patterson, E. R. & Co.
 MONTAGUE—*†Florenco, John
 *McClellan, A. H.
 MONTEREY—*†Landon, Horace
 NAPA—*†Jacobson, J. O.
 *Lindow, W. J.
 *Napa Pump Works (Pumps, Pruning Shears, etc.)
 NEEDLES—*Needles Machine Works
 NEVADA—*†Miner's Foundry & Supply Co.
 NEWARK—*†Graham, James, Mfg. Co. (See San Francisco, Cal.)
 NILES—*†Ames, A. T., Mfg. Co. (Pumps, etc.)
 OAKLAND—*Atlas Gas Engine Co. (Gas Engines, etc.)
 *Bowen & French Mfg. Co. (Agr'l Implements, etc.)
 *†Dalton, Henry & Sons Co. (Motor Cycles, Motor Cycles, Bicycles, etc.)
 *†Empire Foundry Co.
 *†Judson Mfg. Co. (See San Francisco)
 *†Matthews, F. I. (Iron & Brass Founder)
 *Oakland Machine Works & Machinist
 *Oakland Traction Co.
 *†Phoenix Iron Works (Iron & Brass Founders, Machine Castings, etc.)
 †Pioneer Brass Foundry
 *Reliance Engineering Co.
 *†Scoville Iron Works
 *†Standard Brass Casting Co. (Brass Castings, etc.)
 †Standard Foundry
 *Stearns Bros.' Spraying Machine Co. (Spraying Machines & Automobiles)
 *†Union Gas Engine Co. (Gas & Oil Engines)
 *†United Machine Works
 *†United Iron Works (Centrifugal Pumps & Mining Machinery, etc.)
 †White Ornamental Iron Works (Builders' Castings & Iron Work, etc.)
 *†Young, R. S. Supply Co. (Brass Founders)
 OAK PARK—*†Latourette & Fical.
 ONTARIO—*†Pacific Electric Heating Co. (Laundry Irons, etc.)
 ORCUTT—*†Union Oil Tool Co.
 OROVILLE—*†Boston Machine Shop Co.
 *Indiana Machine Shop Co.
 *New York Machine Shop
 PALO ALTO—*†Peterson, Fred E.
 PASADENA—*†Reliance Machine Works
 *Wingren, Chas. O.

PETALUMA—*†McNear Garage & Machine Works
 PLACERVILLE—*†El Dorado Foundry Co.
 POMONA—*Osler, F. H. (G. Uro, Prop.)
 *†Pomona Mfg. Co. (Traction Engines, etc.)
 PORTERVILLE—*Price, G. W. Pump Co. (Engines, etc.)
 RED BLUFF—*†Diamond Match Co.
 †Hammer, H. H.
 REDDING—*†Redding Iron Works (Brass & Iron Castings, etc.)
 REDLANDS—*†Osborn Iron Works
 RIVERSIDE—*†Bonham, G. W. & H. J.
 *†California Iron Works
 *†Riverside Foundry & Machine Works (Packing House Machinery, etc.)
 SACRAMENTO—*Capital Machine & Auto Co.
 †Chaplin, W. W.
 *Davies, John G.
 *Naylor Sons & Co.
 *†Peerless Iron Works
 *†Root, Neilson & Co. (Iron & Brass Founders & Machinists)
 *†Sacramento Foundry & Machine Works
 *†Southern Pacific Railway Foundry
 *Veach, F. H.
 SALINAS—*†Iverson Bros. (Machinists, etc.)
 *Lacey, Geo. E.
 ST. HELENA—*†Grant, P. S.
 SAN BERNARDINO—*†Hanford, J. J.
 *†Parker Iron Works
 SAN DIEGO—*†Clark Machinery & Electrical Co.
 *Hunt Automobile Co.
 †Ingle Mfg. Co. (Stoves, etc.)
 *†Kessler Machine & Supply Co.
 †McCoy, Thos. & Sons
 *†Standard Iron Works
 *†Sterne Bros. Co.
 *Wilson, James D.
 SAN FRANCISCO—*Acme Iron & Wire Works, 35 Boardman pl
 *†Ajax Brass & Iron W'ks, 45 Clementina
 *Aicher Machine Works, 1650 Stockton
 †American Foundry Co., 55 Tehama
 *American Tool Works (Well Boring Tools, etc.), 109 Mission
 *†Atlas Brass Works, 827 Folsom
 *Atlas Gas Engine Co. (Gas Engines, etc.)
 *Bailey-Smith Machine Co., 71 1st
 *Bay City Iron Works, 1243 Harrison
 *†Betts Spring Co. (Carriage, Wagon & Car Springs), 218 Fremont
 *Binns, Wm. H. (Machines & Tools), 416 Harrison
 *Blasau & Sunkel, 81 City Hall av.
 *†Brode & Clark Iron Works (Founders & Machinists), 621 Howard
 *Brunig Machine Works, 516 Brannan
 *†California Adding Machine Co. (Adding Machines), Flood bldg.
 *†California Artistic Metal & Wire Co., 347 7th
 *California Electrical Works (Dynamoes & Motors, Elevators, etc.), 642 Folsom
 *California Plating & Machine Works, 25 Zoe
 *California Saw Works (Saws & Machinery), 721 Brannan
 *California Tool Works (J. Welchhart, Prop.) (Machinists & Dies & Models, etc.), 143 Beale
 *†Carr Foundry & Machine Wks., 932 Folsom
 †Central Iron Works, 631 Florida
 *Cereghino, D. (Pumps, etc.), 4445 Mission
 *Christie Machine Works, 191 Fremont
 *Clot & Crist Mach. Co. (Steam & Power Pumps, etc.), 940 Bryant
 *Columbia Machine Works (Machinists), 215 Spear
 *Compressed Air Machinery Co., Jessie & Ecker
 *Corliss Gas Engine Co. (Gasoline & Oil Engines), 227 Folsom
 *Cyclops Iron Works (Brewery Machinery, Engines, Ice & Refrigerating Machinery, Printing Presses, etc.), 223 Main
 *†Day, Thos. Co. (Brass Fdrs. & Finishers), 719 Mission
 *†De Rome, Louis, 126 Main
 *†Doble, Abner Co. (Tools & Machinery),
 *†Dow, Geo. E. Pumping Engine Co. (Pumps & Hydraulic Machinery, etc.), 179 1st
 *†Dundon's San Francisco Iron Works (Engine, Boilers, etc.), 223 Folsom
 *Dyer Bros. (Bldrs. Iron Work), 17th & Kansas
 *†Edwards, Wm. & Co. (Well Boring Tools & Forgings), 109 Fremont
 *†Enterprise Foundry, 19th & Florida
 *†Evans, O. H. & Co. (Engines, Pumps, etc.), 187 Fremont

*Falls Mfg. Co. (Hdware. Specialties, etc.). 317 1st
 *Farrenkoff, Chas. & Sons, 623 Minna
 †Fremont Iron Works, 320 Fremont
 *Galli Machine Works (Machinists), 429 Tehama
 *†Garratt, W. T. & Co. (Brass & Bell Founders & Machinists), 138 Fremont
 *†Golden State & Miners Iron Works (Engines & Mining Machinery), 231 1st
 *†Graham, Jas. Mfg. Co. (Stove & Range Mfrs. & Light & Grey Iron Castings), 27 Minna
 *Gray, J. A. Co. (Presses, Dies, Tools, etc.), 18th & Bryant
 *§Greenberg's, M. Sons (Brass Foundry & Plating Works), 225 Beale
 *†Hammond, J. & Co. (Car Bldrs., Electric Elevators, Machine Work, etc.), 7th & Haslehurst, W. W., 2122 Folsom King
 *†Hedley, John, 215 Harrison
 *†Hendy, Joshua Iron Wks. (Mining & Woodworking Machinery, Castings, etc.), 75 Fremont
 *Hicks, Jas. L. (Gasoline Engines, Tools, etc.), 967 Howard
 *Imperial Gas Engine Co. (Gas & Oil Engines), 60 Clementina
 *Irvin Machine Works, 335 Golden Gate av.
 *†Jackson, Byron Machine Works (Engines, Pumps, etc.)
 *†Jackson, P. H. & Co. (Inc.) (Arch'l Iron & Steel Work, Sidewalk Lights, etc.), 225 1st
 *Johnson, S. T., & Co. (Oil Pumps, etc.), 1334 Mission
 *†Judson Mfg. Co. (Machine & Bridge Work & Castings), 819 Folsom
 *§Kingwell, Vincent (Brass & Bell Foundry), 1038 Mission
 *Krenz, Oscar, Copper & Brass Works (Brewers Supplies, etc.), 212 Fremont
 *Krogh Mfg. Co. (Irrigating, Mining, Mill & Wine Making Machinery, etc.), 149
 †Liberty Iron Works, 229 Main Beale
 *Lyspert & Kelsey (Engineers & Machinists)
 †Lutge, Richard (Iron Founders), 3153 18th
 †McCormick Bros. Iron Works, Main & Folsom
 *Main Street Iron Works (Wm. Deacon, Prop.) (Engines, etc.)
 †Mechanics Foundry, 920 Brannan
 *†Meese & Gottfried Co. (Engines, Ice Machines, Power Transmitting, etc.), 19th & Harrison
 *†Merle, A., Co. (Art Metal Works, etc.)
 †Metropolitan Iron Works, 9th & Brannan
 †Mission Fdry. & Stove Works (Stoves, etc.), 19th & Treat av.
 *†Moore & Scott Iron Works (Boilers, etc.), 638 2d
 *†Muir & Symon (Inc.) (Marine Iron Works), 1015 Battery
 *Murray Bros. Machine Works, Engines, etc.), 231 Folsom
 *North Machine Co., 324 Main
 *North Star Iron Works, 1271 Folsom
 *†Ocean Shore Iron Works (Boilers, Tanks, Structural Work), 550 8th
 *†Ohmen Engine Works (Steam Engines), 17th & Capp
 *Orton, C. K. Machine Co., 315 Fremont
 †Pacific Foundry Co., 18th & Harrison
 *Pacific Gear & Tool Works (Gear Cutting & Machinists), 1265 Folsom
 †Pacific Jupiter Steel Co. (Steel Foundry), 507 Mission
 *†Pacific Rolling Mill Co., 17th & Mississippi
 *†Pacific Ship Yard & Ways Co., 48 Stuart
 *†Pacific Structural Iron Works, 1021 Bryant
 *Pacific Tank Co. (Mining Machinery), 318 Market
 *Parsons & Blackmon Machine Co., 311 Harriett
 *†Pelton Water Wheel Co. (Water Wheels for Power, etc.), 19th & Harrison
 †Potrero Foundry (Inc.), Indiana & 22d
 †Ralston Iron Works (Builders' Iron Work & Castings), 20th & Indiana
 *†Risdon Iron & Locomotive Wks. (Engines, Dredging, Mining & Sugar Machinery, etc.)
 *Rix Compressed Air & Drill Co. (Rock Drills, Air Compressors, etc.), 219 Spear
 †Sanders & Co.s Copper Wks., 304 Howard
 *†San Francisco Stove Works (Stoves, Ranges, Castings, etc.), 244 Townsend
 *San Francisco Engineering Co. (Machinery), 322 6th

§San Francisco Zinc & Brass Foundry, 48 Clementina
 †Sartorius Co. (Arch'l Iron Works), 15th & Utah
 *Schilling, Adam, & Sons, 211 Main
 †Schrader's Iron Works, 1249 Harrison
 *Speck, Wm. (Gear Cutting, Laundry Machinery, etc.), 2132 Folsom
 *†Standard Gas Engine Co. (Gas Engines), 436 Market
 *†Steiger & Kerr Stove & Fdy. Co. (Stoves, Mining Machinery, Bridge and Building Castings, etc.)
 †Stoesser, F., & Son, 39 Shotwell
 *†Sunset Iron Works, 1057 Folsom
 *Swain Hadwen Mfg. Co. (Gas Engines, etc.), 92 7th
 †Thompson Bros. (Iron Fdrs.), 625 Brannan
 †Todd & Peters, 322 Main
 *Toulouse & Delorieu (Machinists), 489 8th
 *Union Gas Engine Co. (Gas & Gasoline Engines)
 *†Union Iron Works Co. (Ship Builders, Steel & Iron Castings & Steam Engines)
 *Union Machine Co., 934 Brannan
 *United Engineering Works (Ship Builders, Marine Engines, etc.), 254 Spear
 *†United Iron Works (Centrifugals, Pumps & Mining Machinery, etc.)
 *†U. S. Navy Yard Fdry., Mare Island
 *†Van Emon Elevator Co. (Electric & Hydraulic Elevators)
 *†Vulcan Iron Works (Engines, Ice & Refrigerating, Mining & Saw Mill Machinery), 604 Mission
 *Welshons & Symon, 3648 18th
 †Western Foundry, 218 Harrison
 *†Western Iron Works (Fire & Burglar Proof Doors, Shutters, Bank Vaults, Fire Escapes, etc.), 123 Beale
 †Withington, O. W. (Ornamental Iron Work), 416 2d
 *†Woodin & Little (Windmills, Pumps & Brass Goods), 70 Fremont
 SAN JOSE—*†Anderson-Barngrover Mfg. Co. (Fruit Grading & Packing Machines)
 *†Caton's Foundry & Machine Co.
 *†Holmes Machine & Tool Mfg. Co.
 *Knapp Mfg. Co. (Gas Engines, Launches, etc.)
 *†Kuchenbeiser, F. Co. (etc.)
 *§Ostenberg Mfg. Co. (Gas Engines, etc.)
 *§San Jose Brass Foundry
 *†San Jose Foundry
 *Wight, David (Machinist)
 SAN LEANDRO—*†Best Mfg. Co. (Harvesters, Binders, Traction Engines, etc.)
 *Junior Monarch Hay Press Co. (Hay Presses, etc.)
 SAN LUIS OBISPO—*Waite, H. H. (Machinist)
 SANTA ANA—*Acme Machine Co. 1st
 *Elliott, B. D.
 SANTA BARBARA—*Higgins Machine Co.
 *†Wood-Redington Machinery Co.
 SANTA MARIA—*Roemer & Roemer (Pipe Wrenches)
 SANTA ROSA—*†§Santa Rosa Hardware & Machine Co.
 SELMA—*Vincent, M. (Agr'l Impls.)
 SONORA—*Damas & Francis
 STOCKTON—†Davis Iron Works
 †East Street Foundry
 *Geiger, J.
 *†§Globe Iron Works (Inc.) (Engines & Dredging Machinery)
 *Harris Mfg. Co. (Harvesters)
 *†Holt Mfg. Co. (Agricultural Implements, Traction Engines, etc.)
 *†Houser & Haines Mfg. Co. (Harvesters, Grain Drills, etc.)
 †§Monarch Foundry Co.
 *†Samson Iron Works (Inc.) (Engines, Pumps, Castings, etc.)
 *†Shaw, H. C. Co. (Harrows & Plows)
 *Stockton Gas Engine Co.
 *†§Stockton Iron Works (Dredges, Engines, Castings, etc.)
 SUNNYVALE—*†Goldy Machine Co. (Woodworking Mach'y, etc.)
 SUTTER CREEK—*†Knight & Co. (Water Wheels, 100 to 2500 h. p., Castings, etc.)
 TERMINAL—*York & Pett
 TUOLUMNE—*†Holman, F. C.
 VENTURA—*Palm, A.
 *†Ventura Mfg. & Implement Co. (Agrl. Impls., etc.)
 VISALIA—*†Coats, J. R.
 WALNUT CREEK—*Kirsch, Michael
 WINDSOR—*Philpott, J. F.
 WOODLAND—†Faulkner, Peart Co.

COLORADO.

ASPEN—*†§Mellor, Jos.
 BLACK HAWK—*†§McFarlane & Co.
 *Stroehle, Geo. & Son

BOULDER—*†Boulder Iron Works Co.
 †Devline Foundry Co.
 †Phoenix Iron Works Co.
 CANON CITY—*†Canon Foundry & Machine Co.
 CENTRAL CITY—*†McFarlane & Co. (Mining Machinery, etc.)
 COLORADO CITY—†Progressive Stove & Furnace Co. (Stoves, Furnaces, etc.)
 COLORADO SPRINGS—*Bumstead, Frank F. & Co.
 *†§Hassell Iron Works Co. (Rock & Ore Crushers, Horse Power Hoists & Iron & Brass Castings, etc.)
 DELTA—*†§Mundry, Peter
 DENVER—*Ahoft, Wm. F. & Son (Refrigerating Machinery & Supplies, 1540 16th
 *Anderson, Chas. M., 1831 Blake
 *Card, C. S. Iron Works Co.
 *Carnahan, C. T. Mfg. Co. (Rock Drills, etc.)
 *†Clark's Foundry Co. (J. S. Clark)
 *†§Colorado Fuel & Iron Co. (Iron, Steel & Brass Castings, All Consumed by the Company; also Machines for Roll Turning Repairs, etc.)
 †Colorado Gray Iron Foundry Co.
 *†Colorado Iron Works Co. (Mining & Smelting Machinery, Iron Forgings, etc.)
 †Cox, Thos & Son 33d & Wynkoop
 *†Davis, F. M. Iron Works Co. (Mining & Power Transmitting), 8th & Larimer
 *§Denver Brass Works (Brass Founders & Finishers), 1307 Lawrence
 *†Denver Engineering Works Co. (Mining Machinery, Iron Forgings, etc.)
 †Denver Gas Engine & Appliance Co.
 *†Denver Iron Works & Foundry Co., 1827 Wynkoop
 *Denver Rock Drill & Machinery Co. (Rock Drills, etc.)
 *†Denver Rolling Mills & Foundry Co.
 *Dillon Iron Works Co.
 †Downing & Johnson
 *†Enz & Orr, 1741 Blake
 *†§Flint-Lomax Electric & Mfg. Co. (Brass Fdrs. & Electrical Machy., etc.)
 *Gair & Binderup
 *Gartman, C. E. (Machinist), 1414 15th
 *†Great Western Machinery Co.
 *†Griffin Wheel Co. (See Chicago, Ill.)
 *Havens, Herbert, 1618 Wazee
 *Hendrie & Bolthoff Mfg. & Supply Co. (Mining & Mill), 1621 17th
 Hingley, J. A.
 *†Her Fdry. & Machine Co.
 †Jackson-Richter Iron Works Co.
 *Leavitt, W. S. (Tools, etc.)
 *†McFarlane, Peter, & Sons Iron Works Co. (Mining & Milling Mch'y., etc.)
 *§McNamara, Jno. C. (Brass Fdry.) 1431
 *†Maclear Mfg. & Supply Co. Blake
 *Murcy, Julius
 *†Mine & Smelter Supply Co. (Mining Machy. & Castings), 17th & Blake
 †Mountain Iron Works Co.
 *Nock & Garside (Elevators, etc.)
 †Pioneer Iron & Wire Works Co.
 *Plattner Implement Co. (Rakes, Harrows, etc.)
 *†Queen City Foundry Co., 4th & Wazee
 *Sachs-Lawlor Machine & Mfg. Co., 1543 Lorimer
 *Scott Supply & Tool Co. (Machinists)
 *Shaw, C. H. Pneumatic Tool Co. (Pneumatic Tools), Wazee cor 35th
 *§Slack, Ben F., Brass Mfg. Co. (Brass, Copper, Gold, Nickel, Silver, etc.)
 *Southard, A. M. & Son, 1932 Curtis
 *†Stearns-Roger Mfg. Co. (Crushing Rolls, Machinery for Smelting, Sampling, Milling & Concentrating Ores, etc.), 1718 California. Works: Pueblo, Colo.
 *Traylor, John A. Machinery Co.
 *Truax Mfg. Co. (Steel Ore & Service Cars)
 *Vulcan Iron Works Co., 1722 Wazee
 *†Walker Mfg. Co., 2156 15th
 *§Western Brass Works Co.
 †Western Iron Foundry Co.
 DURANGO—*†Ball Foundry & Machine Works
 *†§Vulcan Foundry Co.
 FLORENCE—*†Florence Iron Works Co. (Gas Engines, etc.)
 FORT COLLINS—*†Poudre Valley Foundry & Machine Co.
 FRUITA—*Beard, J. G. M. (X-Ray Machines)
 GRAND JUNCTION—†§Western Slope Brass & Iron Foundry
 GREELEY—*Brown, Peter (Potato Harvesting & Sorting Machinery)
 *Lester, W. E.
 LEADVILLE—*†Engelbach Machine Mfg. Co.
 *†McCarty & Moore

LITTLETON—*†Leyner, J. Geo. Engineering Works Co. (Compressors, Rock Drills, Pneumatic Tools, etc.)
 LONGMONT—*†Longmont Foundry Co.
 MONTE VISTA—†Beesler & Elliott
 PUEBLO—*†Colorado Fuel & Iron Co. (See Denver, Col.)

†Colorado Iron & Wire Works Co.
 *Hochenauer, Joseph
 *†Iron City Mfg. Co.
 *Mead Hay Press Co. (Harrows, Cultivators, etc.)
 *†Ortner, Geo. J. (Brass Fdry., etc.)
 *†Pueblo Foundry & Mach. Co.
 ROCKY FORD—*†Goodner Bros.
 *†Pueblo Foundry & Mach. Co.
 TELLURIDE—*†Sackett, H. M.
 TRINIDAD—*Hawkins & Barnett
 *†Trinidad Fdry. & Machine Works
 VICTOR—*†McCool, Robt.
 WALSENBURG—*†Walsenburg Foundry & Mfg. Co.

CONNECTICUT.

ANSONIA—*†Ansonia Brass Fdry. Co.
 *Ansonia Electrical Co. (Electrical Specialties)
 *Ansonia Mfg. Co. (Brass Goods)
 *Cameron, H. P. Elec. Mfg. Co. (Electrical Specialties)
 *†Cook, Henry C. Co. (Special Machinery & Brass Novelties)
 *†Farrel Foundry & Machine Co. (Paper & Pulp Mill, Rolling Mill, Rubber, Stone Sawing, Veneer Cutting, Wire Insulating, Wire Straightening & Cutting, Machinery, etc.)
 *†Excelsior Faucet Co.
 *†Gaylord, F. L. Co. (Light Castings)
 *†Otis, Fred W.
 *†Phelps, H. D. (Brass Foundry)
 BANTAM—*Bantam Anti-Friction Co. (Ball & Roller Bearing, Motors & Motor Vehicles, etc.)

BEACON FALLS—*†Bronson, Homer D. Co. (Brass Hinges & Electric Bronze Art Work)
 BRANCHVILLE—*Gruman, Geo. B. (Ice Tools, etc.)

BRANFORD—*†Hammer & Co. (Malleable Iron Castings & Hdwe. Specialties, etc.)
 *†Malleable Iron Fittings Co. (Malleable Iron Pipe Fittings & Semi-Steel & Steel Castings)

BRIDGEPORT—*Acme Shear Co. (Shears)
 *Acme Oil Engine Co. (Oil Engines)
 *Adams, A. L. (Corset Machinery)
 *†American Graphophone Co.
 *†American Novelty Co. (Hardware Specialties)

*American Tube & Stamping Co. (Drop Presses, etc.)
 *†American & British Mfg. Co. (Corliss Engines, Driving Wheels, etc.) (See also Providence, R. I.)

*ARMSTRONG MFG. CO. (Pipe Cutting & Threading Machines, etc.) (See adv. Index, end of book)
 *†Ashcroft Mfg. Co. (Steam Gauges, etc.)
 *Atlas Shear Co. (Shears, etc.)
 *Automatic Machine Co. (Automatic & Special Machy.)

*Beers, P. M. & Son (Needles, etc.)
 *†Belknap Mfg. Co. (Brass Fdrs. & Brass Goods for Steam, Gas & Water)
 *Bradley, H. C. (Wood Turning, Machy., etc.)

*†Bridgeport Brass Co. (Brass Tubing, Lamps, etc.)
 *Bridgeport Chain Co. (Chains, etc.)
 *†Bridgeport & De-Oxidized Bronze & Metal Co. (Deoxidized Bronze Ordnance, Comp. Castings, etc.)

*Bridgeport Forge Co. (Machine Jobbing)
 *†Bridgeport Foundry & Machine Co.
 *†Bridgeport Gun Implement Co. (Gun Implements, etc.)

*†Bridgeport Hardware Mfg. Corp'n (Hardware Specialties)
 *†Bridgeport Malleable Iron Co.
 *†Bridgeport Motor Co. (Gasoline Motors, etc.)

*†Bridgeport Safety Emery Wheel Co. (Emery Wheel Machy.)
 *Bryant Electric Co. (Electrical Specialties.)
 *Bullard Machine Tool Co. (Machine Tools, etc.)

*†Burns & Bassick Co. (Hdw. Specialties & Brass & Bronze Castings, etc.)
 *Challenge Cutlery Corp'n (Cutlery, etc.)
 *Columbia Nut & Bolt Co. (Bolts, Nuts, etc.)
 *Connecticut Clasp Co. (Clasps, etc.)
 *Connecticut Tool Co. (Stocks & Dies)
 *†Consolidated Safety Valve Co.

*Cornwall & Patterson Mfg. Co. (Piano Hdw., etc.)
 *†Coulter & McKenzie Machine Co. (Rivet & Spring Machy., Presses, Punches, Shears, Drop Hammers, etc.)

*†Crane Valve Co. (Brass & Iron Valves, Fittings, etc.)
 *Curtis & Curtis Co. (Pipe Cutting & Threading Machines, Stocks & Dies, etc.)
 *Donovan, P. J., Brass Foundry Co.
 *Farist Steel Co. (Steel Car Springs, Railroad & Machy. Forgings)

*Fray, Jno. S. & Co. (Ratchet & Drill Braces & Tool Sets)
 *Gaynor & Mitchell Mfg. Co. (Brass Novelties)
 *Grant Mfg. & Machine Co. (Screw Slotting Machines & Tool Post Grinders, etc.)
 *Hall, G. W. (Light Machy.)

*†Hamilton, Jno. (Est. of) (Brass Fdry. & Finisher, Plumbers' Brass Goods)
 *Hatheway Mfg. Co. (Metal Goods & Dies)
 *Hawthorne & Shelby Mfg. Co. (Talking Machine Supplies, etc.)
 *Hitchcock Gas Engine Co. (Gas Engines, etc.)

*Hotchkiss, E. S. (Light Hardware, etc.)
 *Hubbel, Harvey (Inc.) (Screw Slotting & Riveting Machines)
 *Hurwood Mfg. Co. (Lanterns & Food Choppers)

*Ives Mfg. Corp. (Hardware Specialties, etc.)
 *Kinsley Mfg. Co. (Steam Whistles, etc.)
 *Knapp, Geo. S. (Hardware Specialties, Art Metal Goods, etc.)
 *Liberty Cycle Co. (Bicycle Mfrs.)

*Lock Steel Belt Co.
 *Manufacturers' Iron Foundry
 *Monumental Bronze Co. (Bronze Monuments, etc.)
 *Nilson, A. H. Machine Co. (Special Automatic Machinery, etc.)

*Osborn, Geo. R. Co. (Metal Goods)
 *†Pacific Iron Works (Inc.) (Steam Engines & Castings)
 *Parsons, R. E. Co. (Grey Iron Castings, etc.)

*†Pequonnock Foundry Co. (Grey Iron Castings)
 *Perkins Electric Switch Mfg. Co. (Electrical Supplies)
 *Reliable Machine Co. (Electrical Supplies)
 *Rowell, W. G. Co. (Brass Castings, Babblt Metal, etc.)

*Royal Equipment Co. (Auto Brakes, Gasoline Engines, etc.)
 *†Sanford, David C. Co.
 *Smith & Egge Mfg. Co. (Hdw. Specialties, etc.)

*Somers, Jas. M. & Co. (Brass Rules)
 *Special Machinery Co. (Automatic Machy., etc.)
 *Sprague Meter Co. (Gas Meters, etc.)
 *Spring Perch Co. (Springs, etc.)

*Springfield Mfg. Co. (Emery Wheel Machinery)
 *†Standard Coupler Co. (Car Couplers & Steel Platforms)
 *Union Metallic Cartridge Co.
 *Union Typewriter Co. (Typewriters)

*Walter, Edw. P. (Metal Plating & Shaping Machines, etc.)
 *Weldlich Bros. Mfg. Co. (Metal Goods & Novelties)
 *Weld Mfg. & Supply Co. (Air Compressors, Automatic Machy.)

*Wheeler Engine Works (Tools, etc.)
 *White Mfg. Co. (Carriage Lamps & Mountings, etc.)
 *Yates & Underhill (Machinists)

BRISTOL—*Barnes, Wallace Co. (Steel Springs, etc.)
 *†Bristol Brass Co. (Brass & Bronze Fdrs.)
 *Bristol & Plainville Tramway Co.
 *†Clayton Bros. (Inc.) (Shears, Light Hdw., etc.)

*Dunbar Bros. (Cock Springs, etc.)
 *Horton, Everett (Clock Machinery & Dies)
 *Horton Mfg. Co. (Steel Fish Rods, etc.)
 *Ingraham, E. Co. (Clock Mfrs.)

*Ladd, W. C. (Clocks, Bells & Light Hdw.)
 *†New Departure Mfg. Co. (Bell Founders & Mfrs.)
 *Penfield Saw Works (Saws, etc.)
 *Root, C. J. (Registering Machines, Wrought Brass Hinges, etc.)

*†Sessions Foundry Co. (Grey Iron Castings)
 *Smith, Marshall I. (Dies, Punches & Tools)
 *Snyder, L. H. & Co. (Floor & Ceiling Plates)
 *Thompson, H. C. Clock Co. (Clock Movements)

*†Turner Heater Co. (Hot Air Furnaces, etc.)
 *Turner & Deegan (Bit Braces, etc.)

BROOKFIELD—*Lennox Shear Co. (Shears, etc.)

CENTERBROOK—*Connecticut Valley Mfg. Co. (Bits)

CHESTER—*Chester Mfg. Co. (Augers, Bits, etc.)
 *Deuse, J. S. (Glimets, etc.)
 *Jennings, Russell, Mfg. Co. (Augers, Bits, etc.)

COLLINSVILLE—*Collins Co. (Plows, Tools, etc.)

COS COB—†Oarr, H. J. & Son (Iron Castings, etc.)

*Palmer Bros. (Gasoline Motors, etc.)
 CROMWELL—*†Stevens, J. & E. Co. (Toys, Hardware, etc.)

*Warner, M. R. & Son (Hammers, etc.)
 DANBURY—*Albert Machine Co.

*Boesch Mfg. Co. (Tools, etc.)
 *Doran Bros. (Hat Machy.)
 *Helm Machine Co. (Hattling Machy.)
 *Henebry, Thos. F. (Brass Foundry)

*Morlock, Wm. (Machinist)
 *New Machine Co. (Machinists)
 *Rogers Telephone & Electric Co. (Electric Goods)

*Russel Electric Co. (Electrical Goods)
 *†Turner Machine Co. (Hat Machy.)

DANIELSON—*Bradford, Thos. & Son.
 DEEP RIVER—*Jennings Russell Mfg. Co. (Augers, Bits, etc.)

DERBY—†Automatic Electric Time Switch Co.
 *†Birmingham Iron Foundry (Rubber Mill & Rolling Mill Machinery, Iron & Semi-Steel Castings, etc.)

*Dairy Machinery & Construction Co.
 *†Graham Mfg. Co. (Hdw. & Locksmiths' Supplies)

*Housatonic Motor & Machine Co.
 *†Kelly, F. Co.

*†Meyer, Fred'k (Iron & Brass Fdry.)
 *O. K. Tool Holder Co. (Tool Holders & Lathe & Planer Tools, etc.)

*Shelton Co. (Tacks, Carriage Bolts, etc.)
 *Star Pin Co. (Pins, etc.), Shelton

*U. S. A. Co. (Pins, Hooks & Eyes, etc.)
 *United States Rapid Fire Gun & Power Co. (Engineers & Machinists, "Francke" Four Ported Steam Engines, Hydraulic Presses, Stone Working Machinery, etc.)

*†Whitcomb Metallic Bedstead Co. (Metallic Bedsteads)

*†Whitlock Printing Press Mfg. Co. (Printing Presses)

*Williams Typewriter Co. (Typewriters)

EAST HAMPTON—*†Bevin Bros. Mfg. Co. (Bell Fdrs. & Mfrs.)

*Brown, H. B. Co. (Bolt & Nut Machy.)
 *†East Hampton Bell Co. (Bell Fdrs. & Mfrs.)

*†Gong Bell Mfg. Co. (Bell Fdrs. & Mfrs.)
 *†Hill, N. N. Brass Co. (Bell Fdrs. & Bell Mfrs.)

*†Starr Bros. Bell Co. (Bells, Gongs, etc.)

ESSEX—*Hayden, L. S.

FAIRFIELD—*Fairfield Aluminum Foundry Corp. (Aluminum Castings)

FARMINGTON—*Wallace, N. (Lighting Rods)

FORESTVILLE—*Sessions Clock Co. (Clocks, etc.)

*†Young Bros. (Brass Novelties, etc.)

GEORGETOWN—*†Gilbert & Bennett Mfg. Co. (Wire Goods, etc.)

GUILFORD—*†Spencer's, I. S. Sons (Grey Iron Castings, etc.)

HAMDEN—*Henry, John T. Mfg. Co. (Garden Implements, etc.)

HARTFORD—*†Billings & Spencer Co. (Machine Tools, etc.)

*†Blake, Edwin J. (Brass, Phosphor & Manganese Bronze Castings, etc.)

*†Capewell Horse Nail Co. (Horse Nails, etc.)

*†Clark, E. R. (Air Motors, etc.)
 *Clark, Edred W. (Rubber Machy.)

*†Colts Patent Fire-Arms Mfg. Co.
 *Cook, Asa S. Co. (Wood Screw Machy., Vises, etc.)

*Cooley & Trevor Mfg. Co. (Envelope Machy., etc.)
 *Craig, Jno. M., 71 Arch Machy., etc.)

*Cushman Chuck Co. (Lathe & Drill Chucks, etc.), 189 Allyn

*Davis, I. B. & Son (Steam Heaters, Pumps, etc.)
 *Evarts Machine Co. (Gas & Gasoline Engines, etc.)

*Gray & Prior Machine Co. (Universal Joints, etc.)
 *Hart Mfg. Co. (Electric Switches, etc.)
 *Hart & Hegeman Mfg. Co. (Electric Switches, etc.)

- *†Hartford Foundry Corporation (Grey Iron Castings, Catch Basins, etc.)
 *Hartford Machine Screw Co. (Automatic Screw Machinery, etc.), 476 Capitol
 *Henry & Wright Mfg. Co. (Machine Tools)
 *Howard, Jas. L. & Co. (Brass Founders & Finishers, Plating, Polishing, Lacquered, etc.), 438 Asylum
 *Jacobs Mfg. Co. (Drill Chucks, etc.)
 *†Johns-Pratt Co. (Electrical Goods, etc.)
 *Johnson Carlyle Machine Co. (Friction Clutches, etc.)
 †Laragy, P. (Gray Iron Castings), 114 Grove
 *Law, F. A. Machine Co. (Marine, Stationary & Automobile Engines)
 *Lee, H. K. (General Machine Work), 223 State
 *Morrow Machine Co. (Textile Machy)
 *Mutual Machine Co., 25 Wells
 *National Machine Co. (Machine Tools & Printing Presses)
 *Organ Power Corporation (Organ Motors, etc.)
 *Paradox Gas Engine Co. (Gas Engines, etc.)
 *Phoenix Mfg. Co. (Centering Machines)
 *Pickering, W. H. & Co. (Eng. & Machinists), 110 Commerce
 *Pope Mfg. Co. (Bicycles, Motor Bicycles, Automobiles)
 *Post & Lester Co. (Auto Supplies)
 *†Pratt & Cady Co. (Brass & Grey Iron Castings, Valves, etc.)
 *†Pratt & Whitney Co. (Machine Tools & Small Tools, etc.)
 *Quitt, A. D. (Machine Tools, etc.)
 *Rhodes, L. E.
 *Sigmund Tool Co. (Drill Presses, etc.)
 *Smyth Mfg. Co. (Bookbinders' Machy.)
 *Stalker Mfg. Co. (Bits, Hobbles, etc.)
 †Standard Foundry Co.
 *Sterling Blower & Pipe Mfg. Co. (Blowers, Fans, etc.), 60 Huyshope av
 *Taylor Mfg. Co. (Lathe & Planer Tools)
 †Taylor & Fenn Co. (Machine Tools, Drills, etc.), 54 Arch
 *Tucker, W. W. & C. F. (Oil Hole Covers & Cups, etc.), 302 Asylum
 *Vanderbeck, Abraham (Machine Tools, etc.)
 *†Veeder Mfg. Co. (Cyclometers, Counters & Castings)
 *†Whitlock Coll Pipe Co. (Pipe Benders, Brass & Sheet Metal Work & Automobile Cooler)
 *Whitney Mfg. Co. (Machine Tools, etc.)
 *Winkley Co. (Oil Cups, etc.)
HIGGANUM—*†Cutaway Harrow Co. (Harrow, etc.)
 *Scoville, D. & H. (Planters, Hoes, etc.)
HIGHLAND PARK—*Case, A. W. & Son
 *Case Machine Co. (Propeller Wheels, etc.)
HOTCHKISSVILLE—*American Shear & Knife Co. (Pocket Cutlery, Shears, etc.)
IVORYTOWN—*Behrens & Bushnell (Machinists)
LAKEVILLE—*Holley Mfg. Co. (Cutlery, etc.)
LIME ROCK—*†Barnum-Richardson Co. (Car Wheels, Castings, etc.)
MANCHESTER—*Lydall, H. & Foulds (Machine Needles, etc.)
 *Norton Elec. Instrument Co. (Elec. Instruments, etc.)
MARION—*Frost, L. D. (Est. of) (Bolts, etc.)
MERIDEN—*†Bradley & Hubbard Mfg. Co. (Gas Fixtures, Bronze Goods, etc.)
 *Browne & Dowd Mfg. Co. (Can Openers, etc.)
 *Dayton, Chas. L.
 *Engineering Specialty Co. (Electrical Goods, Motors, etc.)
 *Foster, Geo. A. (Ice Machines)
 *†Foster, Merriam & Co. (Cabinet Hardware, Brass Fdrs., etc.)
 *Kelsey Press Co. (Printing Presses, etc.)
 *Manning, Bowman & Co. (Bottlers' Machinery, etc.)
 *†Meriden Fire Arms Co. (Fire Arms, etc.)
 *Meriden Machine Tool Co. (Lathes & Screw Machines)
 *†Miller, Edw. & Co. (Brass Fdrs., Hardware, Lamps, etc.)
 *Parker Bros. (Guns, etc.)
 *†Parker, Chas. Co. (Vises, Coffee Mills, etc.)
 *Parker Clock Co.
 *†Schenck, M. B. Co. (Casters & Iron & Brass Fdrs.)
 *Wallace, F. J. (Saddlery Hdwe., etc.)
 *Wusterbarth Bros.
MIANUS—*Mianus Motor Works.
MIDDLEFIELD—*†Lyman Gun Sight Corporation (Gun Sights, etc.)
MIDDLETOWN—*†Chapman, W. H. Co. (Saddlery Hdwe.)
 *†Douglas, W. & B. (Pumps, Garden Engines, etc.)
 *†Hubbard Motor Co. (Gasoline Motors)
 *†Kirby Mfg. Co. (Bells, Toys, etc.)
 *New England Enamelling Co.
 *†Wilcox, Crittenden & Co. (Marine & Awning Hdwe. & Grey & Malleable Iron Castings)
MILFORD—*†Rostrand Mfg. Corp'n (Racks, Brass Goods, etc.)
MILLDALE—*†Clark Bros. Bolt Co. (Bolts, Nuts, etc.)
 *Ellis Mfg. Co. (Machinists & Small Hardware)
MOODUS—*Brockway & Meckenstrum Machine Co. (Cotton Machy.)
MOUNT CARMEL—*Mount Carmel Bolt Co. (Small Special Machy.)
 *†Woodruff, Walter W. & Sons Co. (Brass Fdrs., etc.)
MYSTIC—*†Lathrop, J. W. Co. (Gas Motors)
 *†Standard Machinery Co. (Book Binders' Machy.)
NAUGATUCK—*†Naugatuck Malleable Iron Co.
 *†Russell, J. M., Mfg. Co. (Chains, Brass & Bronze Castings, etc.)
NEW BRITAIN—*†American Hardware Corporation Hardware Mfrs.)
 *†Beaton & Bradley Mfg. Co. (Ceiling Plates, Plumbers' Supplies, etc.)
 *Brady, Thos. H. (Electric Ry. Supplies, etc.)
 *Corbin Bros. Co. (Lock Mfrs. etc.)
 *†Corbin Cabinet Lock Co. (Locks, etc.)
 *†Corbin Screw Corporation (Screws, Bolts, etc.)
 *†Corbin, P. & F. (Builders' Hdwe., etc.)
 *Flannery, Patrick J.
 *HART & COOLEY CO. (Hot Air Registers, etc.) (See adv. index, end of book)
 *†Humason & Beckley Mfg. Co. (Brass & Iron Fdrs. & Hardware)
 *†Judd, R. D. (Builders' & Saddlery Hardware)
 *Klinne, W. A. (Brass Fdry.)
 *†Landers, Frary & Clark (Brass & Iron Fdrs., Hardware, Cutlery, etc.)
 *†Malleable Iron Works (Malleable & Grey Iron Castings)
 *National Spring Bed Co. (Spring Beds)
 *New Britain Machine Co. (Engines & Wood Working Machinery)
 *†North & Judd Mfg. Co. (Saddlery, Hardware Fdrs., etc.)
 *North & Pfeiffer Mfg. Co. (Motors, etc.)
 *†Russell & Erwin Mfg. Co. (Builders' Hdwe., etc.)
 *Skinner Chuck Co. (Chucks, etc.)
 *Stanley Rule & Level Co. (Planes, Try Squares, Gauges, etc.)
 *†STANLEY WORKS (Grey Iron & Air Furnace Castings). (See adv. index, end of book)
 *†Taplin Mfg. Co. (Hdw. Specialties, etc.)
 *Traut & Hine Mfg. Co. (Patent Novelties)
 *†Union Mfg. Co. (Drill & Lathe Chucks, Light Grey Iron Castings, etc.)
 *†Vulcan Iron Works (Malleable & Grey Iron Castings, etc.)
NEW HAVEN—*Acme Cash Railway Co. (Cash Carriers)
 †Adlerhurst Iron Co. (Arch'l Iron Work)
 *Atlas Mfg. Co. (Special Hardware)
 *†Baldwin & Rowland Switch & Signal Co.
 *Barnes Tool Co. (Pipe Cutters, Hand Sawing Machines, Wrenches & Tools, etc.), 958 Grand av
 †Barnum, S. H. (Iron Fdrs., Gray Iron Castings, etc.), 20 Whitney av
 *Belden Machine Co. (Dies & Models, Tools & Hdwe. Specialties, etc.)
 *Blgelow Co. ("Special Heavy Machinery, etc.")
 *Bishop, Walter S. (Electro Plating Machinery, etc.)
 *Brooks, Chas. J. (Wire Covering & Special Mach'y), 22 Maple
 *Brown, R. H. & Co. (Chucks, Machy. & Hdwe. Specialties)
 *Burgess, E. A. (Est. of) (Special Machy., Dies, Box Nailing & Trimming Machy., etc.)
 *Colburn, Albert L. (Drilling & Grinding Machy., etc.)
 *Cowles, C., & Co. (Carriage & Auto Hdwe., etc.)
 *†Dreisbach, C. A., Fdry. & Machine Co. (Iron Castings, etc.), 19 Poplar
 *†Eastern Machinery Co. (Brick Machy., Freight Elevators, Friction Clutches, etc.)
 *Elm City Engineering Co. (Electric Metal Separators & Special Elec. Machinery), 61 Orange
 †Ely, C. Upham, 573 Dixwell av
 *English & Merrick Co. (Carriage & Auto Hdwe., etc.)
 †English & Mersick Lamp & Fdry. Co. (Coach Lamps & Trimmings, etc.)
 *†Fitch, W. & E. T. Co. (Sash, Locks, Malleable Iron Castings & Carriage Hdwe., etc.)
 *†Fosket & Bishop Co. (Steam Traps & Steam Specialties, etc.)
 *Foster Motor Co. (Yacht Propellers, etc.)
 *†Fuller Mfg. Co. (Printers & Bookbinders' Machy., etc.)
 *Geometric Tool Co. (Special Machy., Screw Cutting, Die Heads, Hollow Milling Tools, etc.)
 †Graham, Jas. & Co. (Brass Fdrs.), 293 Wooster
 *Greist Mfg. Co. (Sewing Machine Attachments, etc.), Westville
 *Griswold, Geo. M., Machine Co. (Paper Box Machy., Dies, Tools, etc.)
 *Hemming Bros. Co. (Polishing & Grinding Machy., 190 East
 †Hendryx, Andrew B. Co. (Brass & Bronze Fdrs.), 80 Audubon
 *Henn, A. S. & Co. (Punches, Dies, etc.)
 *Herrick & Cowell (Paper Box, Hardware, Electrotypes & Special Machy.), 39 Artizan
 *Hoggson & Pettis Mfg. Co. (Chucks, Dies, Tools & Special Machy., etc.)
 *Ideal Mfg. Co. (Barlow, John H., Prop.) (Gun Loading Pressers, etc.), 187 St. John
 *†Ives, Hobart B. Co. (Brass & Bronze Fdrs. & Bldrs.' Hdwe. Specialties)
 *†Kilborn & Bishop Co.
 *†McLagon Foundry Co. (Machine Molded Furnace & Machy. Castings, Pulleys, etc.)
 †Magnus Metal Co. (Babbitt & Anti-Friction Metals, etc.), 248 Cedar
 *†Mallory-Wheeler Co. (Padlocks Mfrs.)
 *†Marlin Fire Arms Co. (Rides, Guns, etc.)
 *Miner & Peck Mfg. Co. (Drop Presses & Drop Hammers, etc.), 419 Chapel
 *New Haven Clock Co. (Clock Movements, etc.), 133 Hamilton
 †New Haven Foundry Co. (Grey Iron Castings)
 *New Haven Machine Screw Co. (Screws, etc.)
 *†New Haven Mfg. Co. (Machine Tools, etc.), 50 Whitney av
 *Norman Printers' Supply Co. (Printers' Machy., etc.)
 *†North, O. B. & Co. (Saddlery & Carriage Hardware & Malleable Iron Fdrs.)
 *Ochsner, A. & Sons Co. (Carriage Locks & Specialties), 1060 State
 *†Peck Bros. & Co. (Brass Fdrs. & Plumbers' Brass Goods & Supplies)
 *Peck, John L. & Co.
 *Pfeighar, F. P., Hardware Specialty Co. (Light Hdwe., etc.)
 *Prentice, Geo. G., & Co. (Special Machy.)
 *†Recording Fare Register Co. (Ry. Specialties, etc.)
 *†Reynolds, Jas. Mfg. Co. (Sand Molding Machines & Brass Fdrs.), 99 Mill River
 *Reynolds & Co. (Screws, Bolts & Nuts)
 *Rowland Machine Co. (Steam Engines)
 *†Sargent & Co. (Bldrs' Hdwe.)
 *Schoilhorn, Wm. Co. (Pliers, Nippers, Punches & Hdwe. Specialties), Wooster Wallace
 *Scranton & Co. (Machy. & Hardware)
 *†Seward, M. & Son Co. Carriage Hardware, etc.)
 *SHUSTER, F. B. CO. (Machine Tools, etc.), 133 Mill River. (See adv. index, end of book)
 *Sigel, Edwd., Hooker Bldg.
 *Smith, Andrew H. & Co. (Needles, etc.)
 *Smith, W. J., & Co. (Reamers, Special Machy., Tools, etc.)
 *Snow & Petrelli Mfg. Co. (Yacht Cannon, Marine Reversing Gears, etc.)
 *Thompson, Henry G. & Son Co. (Hack Saws, etc.), 6 Elm
 *Twiss, Nelson W. (Steam Engines, etc.)
 *†Warner, G. F. Mfg. Co. (Gray Iron Castings, etc.), James & East
 *Winchester Repeating Arms Co. (Rifles, Guns, etc.), 195 Winchester av
 *†Yale Safe & Iron Co. (Iron Fdrs. & Bldrs.' Iron Work), West Haven

NEW LONDON—*Babcock Printing Press Mfg. Co. (Printing Presses, etc.)
 *†Brown Cotton Gin Co. (Cotton Gins, etc.)
 *Forbes, W. D., Co. (Marine Steering Gears, etc.)
 *†Hopson & Chapin Mfg. Co. (Heating Apparatus, Grey Iron Castings, etc.)
 *New London Vise Wks. (Vises, etc.)
 *†§New London Marine Iron Works (Fdrs., Machinists, Marine Railway)
 *New London Motor Co. (Motors, etc.)
 Thames Towboat Co.
 *†Whiton, D. E., Machine Co. (Machine Tools, etc. (Lathes & Drill Chucks))

NEW MILFORD—*Arcade Machine Works
 *†§Northrop, J. A.

NORTH WINDHAM—*Hartson, L. M., Co.

NORWALK—*†Arnold Co. (Textile Machy.)
 *†Meeker's Union Foundry
 *§Norwalk Brass Co. (Brass, Aluminum & Bronze Castings, Rough & Finished)
 *†Postal Typewriter Co. (Typewriters)

NORWICH—*Barber, M. A. (Cork Cutting)
 *§Bard Union Co. (Unions, etc.)
 *Chelsea File Works (Files)
 *Crescent Fire Arms Co. (Shot Guns, etc.)
 *Davenport, W. H. Fire Arms Co. (Fire Arms)
 *Gould, Augustus, Industrial Bldg.
 *Hopkins & Allen Arms Co. (Fire Arms)
 *Lester & Wasley (Envelope Machy.)
 *†McCrum-Howell Co. (Radiators & Heating Apparatus, etc.). Main Office, New York
 *Pequot Brass Foundry Co.
 *†Tobin Arms Mfg. Co. (Fire Arms, etc.)
 *Tracy, C. Oscar (Brass Fdr.)
 *Uncas Specialty Co. (Auto Parts, etc.)
 *†Vaughn Foundry Co. (Gray Iron Castings)

OAKVILLE—*†Baird Machine Co. (Safety, Toilet & Badge Pin Machy.)
 *†Oakville Co. (Wire & Metal Co.)
 *Smith, Seymour & Son (Hardware)

PLAINVILLE—*Carter, E. T. (Brass Foundry)
 *Carter, L. H. (Brass Fdry.)
 *§Clark, A. N. & Son (Bicycle Sundries, Brass Castings to Order)
 *Clark Caster Co. (Casters, etc.)
 *Elm City Brass & Rivet Co. (Brass Fire Place Furnishings, Brass Castings, etc.)
 *Lamb, B. & Co. (Machy.)
 *§Osborne & Stephenson Mfg. Co. (Brass Goods, etc.)
 *Trumbull Electric Mfg. Co. (Electric Specialties)

PLANTSVILLE—*Atwater Mfg. Co. (Carriage Hdw., etc.)
 *†Blakeslee Forging Co. (Carriage Hdw., Bicycle Supplies, etc.)
 *Thompson Drop Forging Co.

PORTLAND—*Anderson Coupling Co.
 *†§Pickering Governor Co. (Governors)

PUTNAM—*Johnson, E. E. (Lathes, etc.)
 *†Putnam Fdry & Mach. Corp. (Machine Tools)

ROCK FALL—*Smith, O. A. (Fire Arms, etc.)

ROCKVILLE—*†Murless, H. B.

ROCKY HILL—*†Champion Mfg. Co. (Grey Iron Castings, etc.)

ROXBURY—*†Bronson, W. & H.

FAUGATUCK—*†Computing Scale Co. (Scales, etc.)

SEYMOUR—*†Church, S. B. (Windmills, etc.)
 *†Humphreysville Mfg. Co. (Boring Instruments & Edge Tools)
 *†Klatt, E. A. (Iron Fdry.)
 *§Matthews, H. A. Mfg. Co. (Bicycle Parts & Stove Trimmings)
 *Smith, Jas. M.
 *Swan, Jas. Co. (Augers, Bits, Drawing Knives, etc.)

SHELTON—(See Derby)

SOUTH COVENTRY—*Kingsbury & Davis Machine Co. (Set Machines, etc.)

SOUTHINGTON—*†§Peck, Stow & Wilcox Co. (Hdwe., Tools, etc.)

SOUTH NORWALK—*§Artistic Bronze Co. (Bronze Specialties)
 *Automatic Tool Co. (Tools)
 *†Colonial Fdry & Machinery Co.
 *Le Count, Wm. G. Lathe Dogs, etc.)
 *†Lockwood Mfg. Co. (Hardware, Locks, etc.)
 *Miller, Julius W. (Machinist)
 *†NORWALK IRON WORKS CO. (Air Compressors, etc.). (See adv. index end of book)
 *†Norwalk Lock Co. (Hardware, etc.)
 *Robertson, Edwin B.
 *Specialty Mfg. Co.
 *†§Wheeler Bros.

SOUTHPORT—*Jelliff, C. O. Mfg. Corp'n (Harrows, etc.)

SOUTH WINDHAM—*†§Smith & Winchester Mfg. Co. (Paper Bag Machinery)

STAMFORD—*Blickensderfer Mfg. Co. (Typewriters, etc.)

*Brown, Christian (Brass Foundry)
 *Davenport-Treacy Co. (Piano Plates)
 *Lozier Motor Co. (Motors, etc.)
 *Muench, Geo.
 *Oven Equipment & Mfg. Co.
 *†Stamford Foundry Co. (Stoves, etc.)
 *†Stamford Gas Stove Co. (Stoves, Heaters, etc.)
 *†§Stamford Iron & Brass Foundry (Building & Mill Construction, Castings, etc.)
 *Stamford Motor Co. (Gasoline Engines)
 *†§Yale & Towne Mfg. Co. (See New York City)

STONINGTON—*†Atwood-Morrison Co. (Silk & Spool Cotton Machy.)
 *†Miller's A. B. Sons.

STONY CREEK—*Beach, O. B. (Gas Engines)

TERRYVILLE—*†Eagle Lock Co. (Locks, etc.)
 *†Terry, Andrew Co. (Malleable Iron Fdrs.)

THAMESVILLE—(See Norwich.)

THOMASTON—*Thomas, Seth Clock Co. (Clocks, etc.)

THOMPSONVILLE—*†Bushnell, G. H. Press Co. (Oil Mill Machinery & Presses, etc.)
 *§Westfield Plate Co. (Coffin Trimmings, etc.)

TOLLAND—*Clough, R. M. (Machine Tools)

TORRINGTON—*Excelsior Needle Co. (Wire Rod & Tube Pointing Machy., etc.)
 *†Hendey Machine Co. (Machine Tools)
 *†Hotchkiss Foundry Co.
 *Perkins, E. A. Electric Co.
 *Progressive Mfg. Co. (Screws, Gas Engines, etc.)
 *Torrington Mfg. Co. (Rolling Mill Machy., etc.)

*†TURNER & SEYMOUR MFG. CO. (Hardware Mfrs., Castings, etc.) (See adv. index, end of book)

UNIONVILLE—*Mosher & Hogarty (Harness Snaps & Saddlery Hardware)
 *Union Nut Bolt Co. (Bolts, Nuts, etc.)
 *Upson Nut Co.

WALLINGFORD—*Ives, W. A. Mfg. Co. (Bits Augers, etc.)
 *†Judd, H. L. Co. (Small Hardware)

WATERBURY—*American Brass Co.
 *§American Pin Co. (Brass & Bronze Castings, Pins, etc.)
 *§American Ring Co. (Rings, etc.)
 *Atlas Machine Co.
 *§Benedict & Burnham Mfg. Co. (Brass Mfrs.)
 *†Blake & Johnson Co. (Power & Foot Presses, Rivet, Bicycle & Wire Forming Machinery, etc.)
 *§Bristol Co. (Recording Instruments, etc.)
 *§Chase Rolling Mill Co. (Brass Mfrs.)
 *Draher, Jno. (Power Presses, Rivet, Block, Screw & Button Machy Dies, etc.)
 *Henderson Bros. (Machinists & Tumbling Barrels)
 *Ludington, F. J. (Cigarette & Tobacco Machinery)
 *†§Manufacturers Foundry Co. (Grey Iron & Brass Castings, Water Jacketed Cylinders, etc.)
 *Manville Bros. Co. (Power Presses, Watch Machy & Special Automatic Machy)
 *Manville, E. J. Machine Co. (Power Presses, Wire Working, Rivet or Heading Machinery)
 *§Matthews & Willard Mfg. Co. (See Scoville Mfg. Co.)
 *Noera Mfg. Co. (H'dware Specialties)
 *§Novelty Mfg. Co. (Brass Goods)
 *Platt Bros. & Co. (Buttons, etc.)
 *Plume & Atwood Mfg. Co. (Brass Goods, etc.)
 *§Randolph-Clowes Co. (Brass Mfrs.)
 *Risdon Tool Works (Inc.) (Dies, Light Machy. Tools, etc.)
 *Robinson Tool Works (Bench Filing Machines, etc.)
 *†§Scoville Mfg. Co. (Grey Iron & Semi-Steel Castings, etc.)
 *§Smith & Griggs Mfg. Co. (Brass & Metal Goods)
 *§Steele & Johnson Mfg. Co. (Brass Castings, etc.)
 *Waterbury Brass Co.
 *Waterbury Brass Goods Corp'n (Brass Specialties)
 *†Waterbury Castings Co.
 *§Waterbury Clock Co. (Clock Mfrs.)
 *†Waterbury Farrel Foundry & Machine Co. (Drop, Power, Hydraulic & Foot Presses, Brass & Copper Rolling Mill Machy, etc.)
 *†Waterbury Foundry Co. (Grey Iron Castings)

*†Waterbury Mfg. Co. (Brass Goods)
 *Waterbury Machine Co. (Wire Drawing Machin'y, Presses, Dies & Special Machin'y)
 *Waterbury Tool Co. (Small Tools)
 *Waterbury Wire Die Co. (Dies, etc.)

WATERVILLE—*§American Pin Co. (See Waterbury)
 *§Berbecker & Rowland Mfg. Co. (Brass Specialties, etc.)
 *†Rowbottom Machine Co. (Special Automatic Machy of every description, Presses, Grinders, Lathes, Machines, etc.)

WEST HAVEN—*Yale Safe & Iron Co.

WEST MYSTIC—*Holmes Motor Co. (Gasoline Engines)

WESTON—*Wheeler, Henry B. (Iron Fdry.)

WESTPORT—*Bradley's, G. W. Sons (Axes & Edge Tools)

WEST STAFFORD—*Bradway, C. P.

WILLIMANTIC—*Asher Mangle Co. (Mangles, etc.)
 *†Vanderman Mfg. Co. (Grey Iron Castings, etc.)
 *†Willimantic Machine Co. (Silk & Thread Machy, etc.)

WINDSOR—*Eddy, A. H.

WINDSOR LOCKS—*Clark, Geo. P. Co. (Hand Trucks, Casters, etc.)
 *†Horton, E. & Son Co. (Lathe Chucks, etc.)
 *Windsor Locks Machine Co. (Paper & Pulp Mill Machy.)

WINSTED—*Carter & Hakes Machine Co. (Machine Tools)
 *Gilbert, Wm. L. Clock Co. (Clocks, etc.)
 *Goodwin & Kintz Co.
 *†§Moore, Franklin Co. (Hoists, Cranes, Brass & Light Grey Iron Castings)
 *Winsted Edge Tool Works (Edge Tools, etc.)
 *Winsted Mfg. Co. (Scythes, etc.)

YALESVILLE—*†Parker, Charles Co.
 *Yale, C. L. Mfg. Co. (Spoons & Edge Tools)

DELAWARE.

DOVER—*Forbes & Forbes (Machinists)
 *†§Jones, E. L. & Co. (Machy.)

EDGE MOOR—*†Edge Moor Iron Co. (Boilers, etc.)

HOCKESSIN—*Williamson, Thomas

LAUREL—*Adams & Oldfield

MILFORD—*†Matthews, Isabella

NEW CASTLE—*†Baldt Steel Co. (Steel Castings, etc.)
 *†Brylgon Steel Castings Co. (Steel Castings, Crankshafts, etc.)
 *†Tropenas Steel Co. (Steel Castings)

SMYRNA—*Taylor, George W.

WILMINGTON—*†American Car & Foundry Co. (See St. Louis, Mo.)
 *American Machine Co. (Hot Air Pumping Engines, etc.)
 *Baker, G. W. Machine Co. (Leather Working Machinery)
 *†Betts Machine Co. (Machine Tools, etc.)
 *†Crescent Foundry Co. (Cast Iron Pipe)
 *†Davis, L. D. (Iron Railings, etc.)
 *†Delaware Foundry Co. (Grey Iron Castings, etc.)
 *Delaware Machine Works (Automobiles & Gasoline Engines)
 *†§Delaware Marine Supply Mfg. Co.
 *†Diamond State Steel Co.
 *Edge Moor Iron Co.
 *Garrett, Miller & Co. (Electric Fixtures, etc.)
 *†Harlan & Hollingsworth Corp'n (Steel Ships, Marine Engines, Car Buildings, etc.)
 *Hastings, W. C. (Repairs, etc.)
 *Henderer's, A. L. Sons
 *Hickman, Franklin B.
 *†Hilles & Jones Co. (Machine Tools, etc.)
 *Layman, A. C. (Leather Working Machinery)
 *†Lobdell Car Wheel Co. (Car Wheels & Chilled Rolls, etc.)
 *Modern Machinery Co. (Leather Machinery, etc.)
 *National Machine Co. (Fibre & Special Machinery)
 *†§Poole, J. Morton & Co. (Paper Mill Machy. & Castings, etc.)
 *†§Pusey & Jones Co. (Iron & Brass Fdrs., Engines, Paper Mill Machy. Steel Steamboats, etc.)
 *†§Remington Machine Co. (Brass Fdrs. & Ice Machines)
 *†Seidel & Hastings Co.
 *SHAW, BENJ. F. CO. (Iron and Steel Plate Work & High Pressure Piping) (See adv. index, end of book)
 *Slocumb, F. F. & Co. (Leather Working Machy & Pneumatic Tools, etc.)
 *§Speakman Supply & Pipe Co. (Brass Fdrs. & Plumbers Supplies)

*Trump Bros. Machine Co. (Textile Machinery, etc.)
 *Walker & Elliott (Phosphate Mill & Machinists)
 *Wilmington Brass Co. (Brass Founders & Finishers)
 †Wilmington Foundry Co. (Castings, etc.)
 *Wilmington Malleable Iron Co.

DISTRICT OF COLUMBIA.

TWINING—*†§Bealor & Schmlid.
 WASHINGTON—*Carl, Frederick (Insts. & Model Maker), 631 G, N. W.
 *Catlin, E. H. & Co., 309 13th, N W
 *Cragg, H. C. Mfg. Co., 228 K, S W
 *Doremus Machine Co. (Machinists), 300 13th, N W
 †§Douglas, W. H., 1210 E., N. W.
 *Farrow Arms Co., 210 2d, N W
 †Firth-Sterling Steel Co. (Ordnance Works, Giesborg Point)
 *Forsberg, Gustave W. (Machinist), 526 13th, N W
 †Gichner, Fred S. (Iron Fdry), 1214 D, N W
 *†Gray, E. N. & Co. (Iron Fdms. & Machinists), 316 Main av, S W
 *Hurley, Jno. E. (Machinist), 1219 Ohio av, N W
 †Jorss, A. Fred (Iron Fdry & Builders' Iron Work), 315 13th, N W
 *§National Electric Supply Co., 1330 N. Y. av., N. W.
 †Pruett, Jno. M. (Iron Fdry), 3105 K, N W
 *†Schnelder's, C. A. Sons (Fdrs. & Machinists), 212 12th, N W
 †Somerville, Thos., Co. (Plumbers' Supplies, etc.), 316 13th, N. W.
 *†Springman, J. T., Sons, 904 7th, S W
 *†White, Chas. & Co., 418 O, S W
 *†White, Fred J., 462 Main av., S W

FLORIDA.

APALACHICOLA—†Apalachicola Iron Works Co.
 APOPKA—†Florida Iron & Wood Works
 ARCHER—*†Maddox Foundry & Machine Works
 EUSTIS—*Miller, W. H.
 GAINESVILLE—*†Gainesville Foundry & Machine Works
 JACKSONVILLE—*†Florida Machine Works.
 †Jacksonville Iron Works
 *†Merrill-Stevens Co.
 *†Murphy, Timothy, Iron Works
 LAKE CITY—*†Johnson, Lott W.
 LIVE OAK—*†Robbins & McGehee.
 MIAMI—*†Lyne, C. H.
 OCALA—*Ocala Gas Engine Works
 *†Ocala Iron Works (Inc.)
 ORLANDO—*†South Florida Fdry. & Mach.
 PALATKA—*†Hanley, R. H. Works
 *†§Stanton Foundry & Machinery Co.
 PENSACOLA—*†§Gulf Machine Works
 *Pensacola Iron Works & Supply Co.
 ST. PETERSBURG—*Ramm, F. W. & Sons
 TALLAHASSEE—*†Tallahassee Iron Works
 TAMPA—*†Gulf Machine & Auto Works.
 *†Tampa Foundry & Machine Co.
 *†Tampa Steam Ways Co. (Ship Builders)
 WEST PALM BEACH—*Fowler Bros.

GEORGIA.

ALBANY—*†Albany Foundry & Machine Works
 *Southern Mfg. & Supply Co.
 ASHBURN—*Josella Agricultural Co. (Agricultural Implements)
 ATHENS—*†Athens Foundry & Machine Works
 *Umbach, F. G. (Harrows, etc.)
 ATLANTA—*†Atlanta Agricultural Works, 1200 Marietta
 *†Atlanta Car Wheel & Mfg. Co. (Car Wheels, etc.). Equitable Bldg.
 *†Atlanta Machine Works (Marble & Gold Mining Machy., Engines Castings, etc.)
 *†Atlanta Stove Works (Stoves), Irwin & Krog
 *†§Atlanta Utility Works (Oil Mill Machy., etc.)
 *†Continental Gln Co. (See Birmingham, Ala.)
 †Crown Mfg. Co. (Iron Beds, etc.)
 *†§Fulton Fdry. & Machine Works (Castings, Conveyors, Fertilizer Machinery, etc.)
 *†General Pipe & Foundry Co. etc.)
 *†§Georgia Car Co.
 *†§Hancock-Holmes Fdry. & Machine Works
 *Houchin Machine Co. (Tools)
 *Pearl Laundry Machinery Co.
 *†Pratt Engineering & Machine Co. (Chemical Machinery, etc.)
 *Riddell Bros.
 *Schroeder, J. H. & Bro.

*§Southern Brass Works
 *Southern Laundry Machinery Co.
 *†§Spalding-May Fdry. & Machine Co.
 *†Van Winkle, E., Gln & Machine Works (Cotton Seed Oil, etc.)
 *†Vulcan Fdry. & Iron Works, 515 Marietta
 *§Walker Brass Foundry & Mach. Works
 *†§Withers Foundry & Machine Works (Iron & Brass Fdms.), Empire bldg
 AUGUSTA—*†Georgia Iron Works (Saw Mill Machinery, etc.)
 *†Lombard Iron Works & Supply Co. (Engines & Saw Mill Machy., etc.)
 BAINBRIDGE—*†§Sutherland, D. T.
 BREMEN—*†§Bremen Machine Works
 BRUNSWICK—*†Bay Iron Works
 *†Parker-Hensel Engineering Co.
 BUFORD—*Lowe, T. F.
 CARTERSVILLE—*†Withers Foundry & Machine Co.
 CEDARTOWN—*†§Alabama & Georgia Iron Co.
 COLUMBUS—*†Columbus Iron Works Co. (Ice & Refrigerating Machy., etc.)
 *Dixie Force Pump Co. (Force Pumps, etc.)
 *†Golden Foundry & Machine Co. (Power Transmitting, etc.)
 *†Lummas, F. H. Sons Co. (Cotton Gins, etc.)
 *†Pekor Iron Works (Inc.) etc.)
 *†Southern Plow Co. (Cultivators, Plows, etc.)
 †§Standard School Desk Mfg. Co.
 CORDELE—*†§Tomlin-Harris Machine Co. (Iron & Brass Castings, Presses, etc.)
 COVINGTON—*Turner, W. G.
 DALTON—*†Dalton Fdry. & Machine Works
 *Finley & Son
 *Manly Machine Co.
 *†Nancy Hanks Hay Press & Foundry Co. (Hay Presses, Pea Threshers, etc.)
 *Sanders Mfg. Co. (Pea Hullers, etc.)
 DEMOREST—*†Demorest Foundry & Machine Co.
 DICKEY—*Parkins Machine Works
 DOUGLAS—*§Douglas Foundry & Machine Works
 EAST POINT—*†Atlanta Utility Works (Hay Presses, Cotton Oil Machy., etc.)
 *Southern Saw Works
 FITZGERALD—*†§Atlanta, Birmingham & Burkhardt, H. A. Atlantic Ry. Co.
 *†§Fitzgerald Iron Works
 FORT VALLEY—*Georgia Agricultural Works (Cotton Gln Machinery)
 GAINESVILLE—*†Gainesville Iron Works
 GRIFFIN—†Gresham Mfg. Co.
 HAWKINSVILLE—*Pate Bros. & Co.
 HYDE—*Ware & Richardson (Harrows, etc.)
 LUMBER CITY—*Day, John L., Son
 MACON—*†Findlay Iron Works Co.
 *†Mallory & Taylor Iron Works
 *†Massey Gln & Machine Works (Cotton Gins, etc.)
 *†Schofield's J. S., Sons Co. (Sugar Machinery, etc.)
 MARIETTA—*†§Glover Machine Works (Locomotives, Hoisting Engines, etc.)
 MILLEN—*§Millen & Southwestern Ry. Brass Fdry.
 MONTICELLO—*Benton Mfg. Co. (Agricultural Implements)
 MORELAND—*Camp, E. N., & Son
 NEWNAN—*†Cole, R. D. Mfg. Co. (Engines, etc.)
 NORCROSS—*Buchanan Plow & Implement Co.
 OCILLA—*§Sikes Mfg. Co. (Hay Presses, etc.)
 QUITMAN—*†Quitman Mfg. Co.
 ROCK MART—†Rock Mart Stove & Fdry Co.
 ROME—*†Bowie Stove Co. (Stoves)
 *†Davis Fdry. & Machine Works
 *†Georgia Fdry. & Machine Works (Shingles & Saw Mill, etc.)
 *†Hanks Foundry Co.
 *†§Rome Machine & Foundry Co.
 *†Rome Scales Factory (Scales, etc.)
 *†Southern Co-operative Fdry. Co. (Stoves)
 *†Towers & Sullivan Mfg. Co. (Cultivators, Harrows, Plows, etc.)
 SANDERSVILLE—*†Lang's Variety Works
 SAVANNAH—*†Decatur Car Wheel & Mfg. Co. (See Birmingham, Ala.)
 *†§Kehoe, Wm., & Sons (Iron & Brass Fdms. & Saw & Phosphate Mill Machy., etc.)
 *Mingledorff & Co.
 *†§Rourke, Jno. & Sons (Iron & Brass Fdms., Machinists, Heavy Forgings, etc.)
 *†§Savannah Locomotive Works & Supply Co. (Locomotives Rebuilt, etc.)
 *†Seaboard Pipe Foundry Co.
 TALLAPOOSA—*†Greene, M. A.
 *†Southern Car Wheel & Iron Co.
 THOMASVILLE—*†Thomasville Iron Works.
 TIFTON—*†Tifton Foundry & Machine Co.

VALDOSTA—*†§Valdosta Foundry & Machine Co.
 WAYCROSS—*†Atlantic Coast Line Ry. Fdry.
 *†§South Atlantic Car Mfg. Co.
 WAYNESBORO—*Moblely Bros. (Machinery)
 WEST POINT—*†West Point Iron Works
 WINDER—*†§Woodruff Hdwe. & Mfg. Co. (Agr'l Impls.)

HAWAII.

HILO—*†§Hilo R. R. Co.
 HONOLULU—*†§Catton, Neill & Co.
 *†Honolulu Iron Works Co.
 *†Hopper, James A., & Co.

IDAHO.

BOISE—*†§Baxter, Jas., Foundry & Mach. Co.
 GRANGEVILLE—*Grangeville Implement Co. (Ltd.) (Agrl. Impls.)
 MOSCOW—†Anthony, J. J.
 NAMPA—*†Nampa Iron Works.
 NEZPERCE—*Richardson, D. B.
 POCATELLO—*†Union Pacific R. R. Shops
 WALLACE—*†§Coeur d'Alene Iron Works.
 WEISER—*†§Waters, L. E.

ILLINOIS.

ALEDO—*Venable, Geo. D.
 ALLENVILLE—*†Ideal Car Loader Co.
 ALTON—*Beall Bros. (Inc.) (Miners' Tools, Shovels & Specialties)
 *†Duncan Fdry. & Machine Works (Box Car Loaders & Car Wheels, etc.)
 *†Hancock Disc Plow Co. (Agrl. Impls.)
 *†Hapgood Plow Co. (Agrl. Impls., Plows, Drills, Planters, etc.)
 *Hayden, Geo. D. Machine Co.
 *Sparks, C. F. Machine Co.
 ANNA—*Hargrave, Allen.
 ARLINGTON HEIGHTS—*†Peter & Volz.
 ASSUMPTION—*Consolidated Mfg. & Electric Co. (Electric Specialties)
 *McClure, J. W.
 ASTORIA—*Savill W. & Bro.
 AURORA—*†AMERICAN WELL WORKS. (Well Machinery & Air Compressors). (See adv. index, end of book)
 *†American Wood Working Machinery Co. (See Rochester, N. Y.)
 *Aurora Automatic Machinery Co. (Pneumatic Tools, Motor Cycles, etc.)
 *†Aurora Foundry Co. (Grey Iron & Machine Pulley Castings, etc.)
 *†§Aurora Metal Co. (Brass & Bronze Castings & Metallic Piston Packing)
 *†C. B. & Q. R. R. Co. (Iron & Brass)
 †Cassidy's Sons Shops
 *†Fox River Iron Co.
 *Hinckley, C. C.
 *†Love Bros. (Inc.)
 §Peters Brass Foundry Co. (Brass Castings, etc.)
 *Phillips, T. L. (Feed Mills, Hot Water Heaters, etc.)
 *†Rathbone, Sard & Co. (Stoves, etc.)
 *†Richards Mfg. Co. (Door Hangers, etc.)
 *†§Richards Standard Mfg. Co. (Hdw. Specialties & Brass Foundry)
 *†Standard Brake Shoe Co.
 *†Stephens-Adamson Mfg. Co. (Power Transmitting Machy.)
 *Udstad, S. (Machinist)
 *Vindex Electric Co. (Transformers, etc.)
 *Western Wheeled Scraper Co. (Street Sweeping Machines & Road Scrapers, etc.)
 *†Wilcox Mfg. Co. (Door Hangers, Hdw. Specialties, etc.)
 AVA—*Spiner, E. F.
 *Underwood, Wm. J.
 BATAVIA—*†Appleton Mfg. Co. (Agrl. Impls.)
 *†§Challenge Co. (Gas & Gasoline Engines, Windmills, etc.)
 *Newton Wagon Co. (Heavy Farm Wagons, etc.)
 *†Shumway, C. W. & Sons (Machinery Castings, etc.)
 *†Sperry, D. R. & Co. (Hollow Ware)
 §Stuttle Brass Mfg. Co. Founders
 *†U. S. Wind Engine & Pump Co. (Wind Mills, Pumps, Feed Mills & Corn Shell-ers, etc.)
 BELLEVILLE—†Belleville Foundry Co.
 *Belleville Implement & Motor Co. (Agrl. Implements, Motors, etc.)
 *†Belleville Stove & Range Co. (Stoves, etc.)
 *†Born, J. C. & Bro.
 †Crown Foundry Co. (Iron Founders)
 *†Eagle Foundry Co. (Stoves)
 *†Enterprise Foundry Co. (Iron Fdms.)
 *†Excelsior Foundry Co.
 *†Gundlach, Phillip M.
 *†Harrison Machine Works (Threshers & Engines)
 *†§Herzler-Henninger Machine Works

*† Mitchell-Parks Mfg. Co. (See St. Louis, Mo.)
 *Modern Machine Co. (Mo.)
 †Oakland Foundry Co.
 †Orbon Stove & Range Co. (Stoves, Ranges, etc.)
 *†Quality Stove & Range Co. (etc.)
 †Richland Foundry Co. (Iron Fdrs.)
 *†Rinck Mfg. Co. (Threshing Machine Cylinders)
 *†St. Clair Foundry (Iron Fdrs.)
 *Schwartz, Jos. & Son (Machinists)
 *†Snyder & Baker Stove Works (Stoves)
 *Wilson Steel Range Co. (Steel Ranges, etc.)
 BELVIDERE—*†National Sewing Machine Co.
 *†National Sewing Machine Co.
 BENTON—*Gray, J. W.
 BLOOMINGTON—*†American Foundry & Furnace Co. (Hot Air Furnaces & Castings, etc.)
 *†§Bloomington Iron & Brass Foundry
 *†Chicago & Alton R. R. (Iron Fdry.)
 *Constant, B. S. Co. (Elevator & Grain Machinery, etc.)
 *†Co-operative Stove Co. (Stoves)
 *Keiser, Van Leer Co.
 *†Ma Girl, P. H.
 BLUE ISLAND—*Bronson, E. & Co.
 BRADLEY—*†Bradley, David Mfg. Co. (Plows, Cultivators, Planters, etc.)
 *†Burrell Mfg. Co.
 *†Turk, Jos. Mfg. Co. (Iron Beds, etc.)
 BURNHAM—Western Steel Car & Foundry Co. (See Chicago, Ill.)
 BUSHNELL—*Bushnell Pump Co. (Pumps, etc.)
 *Norcross, C. S. & Son (Garden Plows, etc.)
 CAIRO—*†McCarthy & Mallinski
 *†§Reed, J. B. (Machine Tools & Castings, etc.)
 *†§Rennie, Jno. T.
 CAMPBELL HILL—*Shaw, Hans (Machinist & Plows)
 CANTON—*†Parlin & Orcendorff Co. (Plows, Cultivators, Planters, Listers, etc.)
 *†Savill & Chandler Co. (Stoves, etc.)
 CARBON HILL—*†Wilmington Foundry & Machine Co. (Fdrs. & Machinists). (See Chicago)
 CARLOCK—*Shad, S. H.
 CARM—*Graham Mfg. Co. (Machinists)
 CARPENTERSVILLE—*†Illinois Iron & Bolt Co. (Presses, Jacks, Vises, Drills, etc.)
 *†Star Mfg. Co. (Steel Castings & Plows)
 CARROLLTON—*†Enterprise Iron Works (Oswald Jackson, Prop.)
 CARTERVILLE—*Coal Belt Machine Works
 *Illinois Engineering & Machine Co.
 CARTHAGE—*Leader Mfg. Co. (Grain Separators & Cleaners)
 CHAMPAIGN—*†Burr, E. M. & Co. (Manhole Covers, Sewer Inlets, Municipal Castings, etc.)
 *Wallace Machinery Co.
 CHARLESTON—*Merritt & Mason
 CHESTER—*†Dauer, L. A.
 CHICAGO—*Aaron Electric Co. (Dynamos & Motors), 141 S. Clinton
 *§Acme Metal Mfg. Co. (Brass Fdrs.), 68 W. Monroe
 *ACME STEEL GOODS CO. (Steel Goods, etc.), 2834 Archer av. (See adv. index, end of book)
 *†§Acorn Brass Mfg. Co. (General Machinists, Brass Fdrs. & Finishers), 51 N. Peoria
 *Adams Bros. (Special Machy., etc.), 911 N. Kedzie av
 *§Adams & Westlake Co. (Railroad Specialties, Brass Fdrs., Finishers, etc.)
 Ontario & N. Franklin
 *Adapt Machinery Co. (Special Machinery), 1630 Wabash av
 *Advance Machine Co. (Slot Machines), 194 S. Clinton
 *†Aeromotor Co. (Windmills), Campbell av n of 12th
 *Allbright-Nell Co. (Packers' Machinery), 4019 Wentworth av
 *§Allen, W. D. Mfg. Co. (Brass Founders' Brass Specialties, Finishers, etc.), 151 Lake
 *†§ALLIS-CHALMERS CO. (See Milwaukee, Wis.)
 *†American Bridge Co. (Bridge Bldgs., etc.), 115 Adams
 *§American Bronze Foundry Co. (Bronze Founders & Tablets, etc.), 73d & Woodlawn av
 *†American Building Foundry Co. (Structural & Arch'l Castings), 497 W. 22d
 *American Can Co. (Can Makers & Cannery Machinery, etc.), 135 Adams
 *†American Car & Equipment Co. (Freight Cars, etc.), Monadnock Bldg
 *†American Car & Foundry Co. (See St. Louis, Mo.)
 †American Iron & Wire Works, 575 Carroll av

*American Metalware Co. (Brass Bedsteads, etc.), 87 Huron
 *American Meter Co. (Gas Meters & Appliances), 244 N. Wells
 *†American Radiator Co. (Radiators, etc.), 282 Michigan av
 †American Steel Foundries. (Steel Castings, 175 Dearborn
 *†American Steel & Wire Co., 175 Dearborn
 *Amundsen, A. & Co. (Tools & Dies), 69 W. Jackson boul
 *†Anderson, Adolph F. (Builders' Iron Works), 5836 Loomis
 §Anderson Bros. (Brass Founders & Finishers), 434 Fulton
 *Anderson Bros., 394 S. Clark
 *Anderson, Carl Co. (Gas & Gasoline Engines), Huron & Kingsbury
 §Anderson, Chas. B., 120 Clinton
 *Anderson, Chas. L., 92 W. Van Buren
 *Anderson, C. F. & Co. (Printers' & Binders' Machinery), 394 S. Clark
 *Anderson Machine Co. (Machinists), 56 N. Jefferson
 †Archer Iron Works (Wheelbarrows, Trucks, etc.)
 †Armor Steel & Foundry Co. (Steel Castings), 164 Dearborn. Works: Matthews, Ind.
 *Armstrong-Blum Mfg. Co. (Punches & Shears, Rod Cutters, etc.), 107 N. Francisco av
 *Armstrong Bros.' Tool Co. (Tool Holders, Ratchet Drills, etc.), 104 N. Francisco av
 *Arnold, Schwinn & Co. (Bicycles, etc.), 945 N. 43d av
 *†Art Bedstead Co., 37th & Rockwell
 *Atlantic Tool & Machine Co. (Tools, Dies & Special Machinery), Atlantic bldg
 *Austin Mfg. Co. (Road Grading & Well Drilling Machy), 315 Dearborn; Works, Harvey, Ill.
 *Automatic Machine & Tool Co. (Coin Operating Machines), 46 N. Ann
 *Automatic Racking Machine Co., 28th & Groveland av
 *Ayes & Co. (Lathe Dogs, Pipe Cutters, etc.), 57 Ellen
 §Babbitt, R. M., Brass Fdry., 67 W. Washington
 *Bakke & Aabel, 140 Monroe
 §Baldwin Brass Works, 232 S. Clinton
 *Barber, A. H., Creamery Supply Co. (Ice & Refrigerating Machy. & Dairy Supplies), 229 S. Water
 *Barbieri & Dellenbarger Co. (Mach'y & Tools, etc.), 767 Clybourn av
 *BARCO BRASS & JOINT CO. (Brass Finishers), 56 N. Jefferson. (See adv. index, end of book)
 †Barr & Kellerman Fdry. Co., 38 Erie
 *Beardslee Chandelier Mfg. Co. (Gas & Electric Fixtures), 176 S. Clinton
 *Bell & Howell (Moving Picture Machines), 90 Illinois
 §Berchem, Jules, & Co. (Bronze Statuary, etc.), 486 Fulton
 *Bergholtz, Strodtz & Co. (Tools, etc.), 615 Ogden av
 *Bergbom & Roberg (Machinists & Tool Makers), 30 W. Ralldolph
 *§Besly, Chas. H., & Co. (Brass Goods, etc.), 15 S. Clinton
 *Blakeslee, G. S. & Co. (Dish Washing Machines), 325 Dearborn
 *Blomfeldt & Rapp (Special Machy., Dies etc.), 25 S. Jefferson
 *Boland Machy. Co. (Ice & Washing Machy), 209 S. Clinton
 *Boller, Peter (Machinist), 24 W. Randolph
 *†Bolter's, A., Sons, Belden & Ward
 †Bondy, J. L., Wire & Iron Works, 140 Dearborn
 *Bottlers' Machinery Mfg. Co. (Labelling Machines, etc.), 67 N. Wells
 †Brady, Jas. A., Foundry Co. (Machinery Castings), 35th & Ashland av
 *Brady, Jno. F. Turbine Co. (Turbine Engines), 45 Fulton
 †Brandes, Carl (Arch'l & Structural Iron), 1037 Otto
 *†Brighton Foundry Co., 330 S. Western boul
 *Bromm, Fred. J. (Tools), 2564 S. Halsted
 *†Brown Bros. Mfg. Co. (Builders' Iron Work & Castings & Sidewalk Lights), W. 22d & Campbell av
 *Brown Specialty Machinery Co. (Core Making Machines, etc.), Jackson Boul & Clinton
 *†Brucker, Michael (Fdry. & Stove Repairs), 325 N. Lincoln

*Brunner & Lay Stone Jacks, Tools, etc.), 133 W. Polk
 *†Buda Foundry & Mfg. Co. (Railway Cars, Axles, Wheels, Track Equipments, etc.), 9 Jackson boul.; Works, Harvey, Ill.
 *Buisson Bros.' Mfg. Co. (Machinists), 3146 Wentworth av
 *†§Burdette-Rowntree Mfg. Co. (Brass, Bronze & Aluminum Castings & Elevator Fixtures, Finishers, etc.), 85 W. Jackson boul.
 *†Burrell Mfg. Co. (Flour Mill Machy.), 251 S. Jefferson
 *Burton's, A. G. Son (Safe Locks, etc.), 133 S. Clinton
 †Butler St. Foundry & Iron Co. (Iron Fdry), 3422 Butler
 *†Caldwell, H. W. & Son Co. (Elevating & Conveying, Grain Elevator & Power Transmitting Machinery), Western av & 17th
 *Carmichael Range Co. (Stove & Range Mfrs.), 195 Kinzie
 Cassady - Fairbank Mfg. Co. (Automatic & Bicycle Parts, etc.), 6126 La Salle
 *Cavanaugh-Darley Co. (Gas Engines), 84 Van Buren
 †Central Architectural Iron Works, Fisher Bldg
 *Central Chandelier Co., 513 Fulton
 *†Central Specialty Mfg. Co. (Bathroom & Laundry Fittings), 141 S. Clinton
 †Central Iron Works (Fire Escapes, etc.), 263 W. Lake
 *†Chalmers & Williams (Mining Machy., Rock Crushers, etc.), Commercial Nat'l. Bk. Bldg.
 §Chicago Art Metal Works (Brass Ornaments, etc.), 67 Lake
 *§Chicago Brass Co. (Brass Fdrs. & Finishers), 42 Madison
 *Chicago Bridge & Iron Works, Throop & W. 105th
 *†§Chicago City Ry. Co. (Fdry. Dept.), 77th & Wentworth
 *†Chicago Crossing Co. (Switches, Frogs, Crossings, etc.), Monadnock Bldg.
 †Chicago Die & Electric Co. (Electric Goods), 64 Fulton
 *†Chicago Drop Forge & Foundry Co. (Drop Forgings, Castings, etc.), 115th pl. & M. C. R. R.
 *§Chicago Faucet Co. (Brass Fdrs. & Finishers), 200 S. Clinton
 *Chicago Fire Apparatus Co. (Fire Apparatus), 89 Lake
 *Chicago Flexible Shaft Co. (Flexible Shafts, etc.), La Salle av & Ontario
 †Chicago Foundry Co., 56th av, bet. Armitage & Grand aves
 *†§Chicago Hardware Foundry Co. (See Chicago Heights, Ill.)
 Chicago Machine & Washer Co., 1212 W. 15th
 *Chicago Machinery Mfg. Co., 241 Jefferson
 †Chicago Malleable Castings Co. (Refined Malleable Castings), W. 120th & Centre av
 *†§Chicago Ornamental Iron Co., 37th & Stewart ave.
 *†Chicago Pneumatic Tool Co. (Pneumatic Tools, Air Compressors, etc.), Fisher bldg
 *†Chicago Pulley & Shafting Co. (Power Transmitting Appliances), 54 S. Canal
 *†Chicago Railway Equipment Co. (Brake Beams, Bolsters, Side Bearings, etc.), Robey & 46th
 *†Chicago Ship Building Co. (Marine Engines, Ship Builders, etc.), 101st & Calumet river
 *†CHICAGO SIDEWALK LIGHT CO. (Sidewalk Lights, etc.), 103 Reaper blk (See adv. index, end of book)
 *†§Chicago Spring Butt Co. (Hardware Specialties & Brass Fdrs.), 491 Carroll av
 †Chicago Steel Fdry. Co. (Crucible, Manganese, Nickel, Canadian & Chrome-Vanadium Steel Castings)
 *†Chicago Stove Works (Stoves, etc.), Blue Island av & W. 22d
 *†Chicago Stove & Range Co. (Stoves & Ranges), 237 E. 26th. Works, Fulton & Mattoon, Ill.
 *Chicago Time Lock Co., 1370 N. Francisco av
 *Chicago Water Motor & Fan Co. (Water Motors, etc.), 40 Dearborn
 *†Chisholm, Boyd & White Co. (Brick Machinery, etc.), W. 57th & Wallace
 §Clow, Geo. E. & Co. (Metal Specialties), 72 W. Washington
 *†§Clow, Jas. B. & Sons (Inc.) (Cast Iron Pipe & Plumbers' Supplies), 342 Franklin
 *Clyde Machine Works (Crank Pin Machinery, etc.), 8913 Union av

*Colborne Mfg. Co. (Pie Bakers Machinery, etc.), 35 Indiana
 *†Cole Mfg. Co. (Stoves & Ranges), 3218 S Western av
 *Comptograph Co. (Adding & Listing Machines), 39 Dayton
 *Conkling Co. (Laundry Machy.), 96th & Erie av
 *Confectioners' & Bakers' Supply Co. (Confectioners' & Bakers' Machy.), 240 Illinois
 *Cook & Chick Co., 255 Kenzie
 *Cowper Mfg. Co. (Coin Operating Machines), 166 S Clinton
 *†Crane Co. (Steam Specialties & Cast Iron & Brass Goods). (See adv. index, end of book)
 *Crary, Hamilton, 41 Indiana
 *†Creamery Package Mfg. Co. (Ice & Refrigerating Machines & Creamery Supplies), 182 E Kinzie
 *†Cribben & Sexton Co. (Stoves & Plumbers' Enamelled Ware, etc.), 56 Erie
 *Cross Press & Sign Co. (Wood Printing Machines), 57 Dayton
 *Cullman Wheel Co. (Sprockets for Roller & Block Chains), 1024 Greenwood ter.
 †Cummings, T. A., Foundry Co., 67 Clybourne pl
 *Cummins, B. F. Co. (Check Perforators, etc.), 1411 W. Ravenswood pk
 *†Dauchy Iron Works (Builders' Iron Work, Castings & Vault Lights), 84 Illinois
 *Davis, G. M. Regulator Co. (Valves, etc.), 144 Milwaukee av.
 *†Davis, Horwich & Steinman (Brass & Iron Beds), 420 Maxwell
 *Davis-Johnson Mfg. Co. (Hydraulic Presses & Pumps, etc.), 345 S. Canal
 *†Davison Fdry. Co. (Light & Heavy Grey Iron Castings, etc., Manhole & Conduit Covers, Catch Basins, etc.), 144th & R. R. av
 *†Dawson Bros. (Grates & Metal Trim-mings), 197 N. Halsted
 *†Dearborn Foundry Co. (Builders' Iron Work & Castings), 1525 Dearborn
 *Dearborn Machine Works, 296 Dearborn
 *Delano, E. A., Co. (Shafts, Hangers & Pulleys), 150 Huron
 *Dick, A. B. Co. (Copying & Duplicating Machines), 161 W. Jackson boul
 *Dobbins, C. E. & Co. (Axles & Springs), 172 N Halsted
 *Doolan Mfg. Co., 16 Larrabee
 *Drake Standard Machine Works (Brick Machinery & Concrete Mixers, etc.), 298 W Jackson boul
 *Dreis & Krump Mfg. Co. (O. K. Cornice Brake, etc.), 3214 S Halstead
 *†Duffin's Iron Works (Arch'l Iron, etc.), 40th & Wentworth av
 *Dunbar & Co. (Peanut & Pop Corn Roasting Machines), 687 Fulton
 *Dunne, Geo. W. & Co., 691 Carroll av
 *†Eaton & Prince Co. (Elevator Builders, etc.), 70 Michigan
 *§Eddy, Geo. B. (Brass Fdrs. & Finishers), 72 W Washn
 *†Eddy, R. M. Foundry Co. (Boiler Fronts, Grate Bars, Castings, etc.), 61 Indiana
 *†ELEVATOR SUPPLY & REPAIR Co., 76 W. Monroe. (See adv. index, end of book)
 †Elizabeth Street Foundry (Iron Fdry.), 5837 S Elizabeth
 *ELMES, CHAS. F. ENGINEERING Works (Hydraulic, Fire Boat & Rubber Machinery), Fulton & Morgan. (See adv. index, end of book)
 *§Empire Brass Works (Brass Founders, Finishers, etc.), 127 Fulton
 *Emrath, Louis, 218 Washington
 *Enterprise Tool & Metal Works (Machinists), 141 S Clinton
 Erb, W. B. & Co. (Machinists), 224 S Clinton
 *Erwin & Co. (Hydraulic Pumps, etc.), 56 Dearborn
 *Excelsior Steel Furnace Co. (Furnaces, etc.), 38 W Monroe
 *†Fairbanks, Morse & Co., Franklin & Monroe
 *§Faunt Bros. (Brass Founders, Finishers, etc.), 13 N Jefferson
 *†Featherstone Foundry & Machine Co. (Corliss Engines, Ice Machines, Grey Iron Castings, etc.), Front & Halstead
 *†§Federal-Huber Co. (Plumbers' Goods, etc.), 54 N. Halsted
 *Federal Mfg. Co. (Geyser Cocks, etc.), 158 State
 *Felt & Tarrant Mfg. Co. (Comptometers, etc.), 856 N. Paulina
 †Ferguson & Lange Foundry Co. (Grey Iron, Ammonia, Chilled & Hydraulic Castings & Chilled Car Wheels, etc.), Clayborn av & Willow

*Folding Sawing Machine Co., 158 Harrison
 *Foley, J. L., 69 W Jackson boul.
 *†Foley & Williams Mfg. Co. (Sewing Machines), 48 Jackson boul.
 *Force, Wm. A. & Co. (Inc.) (Dies, Stamps, etc.), 188 Monroe
 *FOOTE BROS. GEAR & MACHINE Co. (Engineers & Machinists, Special Machy., Cut Gears, etc.), 44-50 N. Carpenter
 *Fort Dearborn Mfg. Co. (Special Machy., etc.), 63 Crossing
 *§Fowler Brass Works (Plumbers' Brass Goods), 2333 Wabash av
 †Frake, Jas. (Iron Fdry.), 459 W Kinzie
 †Francis & Nygren Foundry Co. (Semi-Steel & Iron Fdrs.), 1201 Fillmore
 *†Franklin Pipe & Foundry Co., 1155 S. Paulina
 *Furness Bros.' Co. (Machinists, Pumps, etc.), 28 N Desplaines
 *Gallaher & Speck (Machinists), 184 E. Congress
 *GANSHOW, WM. CO. (Engineers' & Machinists, Special Machinery, Cut Gears, etc.). (See adv. index, end of book)
 *†Garden City Fan Co. (Iron Fdrs. & Blowers, Exhaust Fans, etc.), Fisher bldg. Works: Niles, Mich.
 †Garden City Foundry (Iron Founders), 103 W Monroe
 *Garvy Co. (Iron Beds), 49th av. & Bloomingdale rd
 *Gibson, A. M., 32 W Quincy
 *Glader, Wm., 50 N. Ann
 *§Goetz & Flodin Mfg. Co. (Brass Fdrs. & Finishers), 133 W Chicago av
 *†Golden Novelty Mfg. & Foundry Co. (Art Metal Works), 46th & Grand av.
 *†Goss Printing Press Co. (Printing Presses), 732 S Paulina
 *§Grant, Michael F. & Co. (Brass Fdrs. & Finishers), 215 S Clinton
 †Gray Iron Foundry Co., 46 Michigan-
 *†Green Engineering Co. (Traveling Link Grates, etc.), Com'l Nat'l Bank Bldg
 *†Greenlee Bros. & Co. (Woodworking Machinery, etc.), Railway Ex bldg
 †Greenlee Foundry Co. (Iron Fdrs.), 142 Bunker
 *Gregory Electric Co. (Electric Machinery), 16th & Lincoln
 *†Griffin Wheel Co. (Car Wheels), 138 Jackson boul
 *Grotnes, Chas. (Machy.), 11 S. Jefferson
 *Gruendel, Geo. (Machinist), 28 S. Canal
 *Guarantee Electric Co. (Dynamoes & Motors), 153 S Clinton
 *Guillott Metal Gasket Co., 97 S Clinton
 *Gump, B. F. Co. (Rebuilt Flour Mill Machinery), S. Clinton
 *Gutmann Store Fixture Co., 377 Wabash
 *Haberkamp, Wm., Machine Works (Saturating & Roofing Paper Machy., etc.), 69 N. Wells
 *Hall Machine Co., 54 N. Desplaines
 †Hall, Miller & Son (Iron & Brass Bedsteads), c Taylor & Rockwell
 †Hallett Iron Works, 92 W Polk
 *HALSTED, JOS. CO. (Builders' Iron), 388 W Randolph. (See adv. index, end of book)
 *Hammar, Herman (Machinist), 170 E. Madison
 *Hanna Engineering Works, 820 Elston av
 *†Hansell-Elcock Co. (Iron Founders & Builders' Iron Works), 251 23d pl
 *Hardinge Bros. (Sensitive Drills & Watchmakers' Tools, etc.), 1036 Lincoln av
 *§Harris, Arthur & Co. (Brass Founders & Finishers for Breweries, Distillers, etc.), 44 N Curtis
 *Harvard Electric Co. (Electrical Specialties), 60 W Vanburen
 *Harvard Tool Mfg. Co. (Dies, etc.), 5 W. Madison
 *†Hawley Down Draft Furnace Co. (Mechanical Stokers' Melting Furnaces, etc.), Superior & Townsend
 *Healy Ice Machine Co. (Ice Machines & Steam Engines), 641 30th
 §Hecht, Jere M., 101 Kinzie
 *Heinemann, Louis, 819 Melrose
 *Helmold, J. F., & Bro., A. & Dominick
 *†Herbert Boiler Co. (Boilers, etc.), Root & La Salle
 *Hennebelle Co. (Steam & Hydraulic Specialties), S Chicago & Erie avs
 *Hermetic Closure Co. (Canning Machinery), 1142 W 16th
 *§Hewitt Mfg. Co. (Brass Founders & Finishers), 9 Jackson boul
 *Hicks Locomotive & Car Works (Cars, Locomotives, etc.), 277 Dearborn

*Hiles, C. A. & Co. (Saws, Tools, etc.), 14th & Western av
 *§Hills-McCanna Co. (Brass Fdrs. & Engineers' Supplies), 127 E. Kinzie
 §Hine-Watt Mfg. Co. (Brass Fdrs.), 60 Wabash av
 *§Hodgson, Jno. & Co. (Brass Fdrs. & Finishers), 1071 W 13th
 *Hoeft & Co., 118 Michigan
 *Hoffmann, Emil R. (Special Machinery), 71 W Jackson boul
 *Holden Mfg. Co. (Automatic Presses & Special Wire & Tin Working Machy.), 153 S Jefferson
 †Holland Radiator Co., (Radiators, etc.), 38 Dearborn
 *Holland, Wm. Brass Works (Brass Founder & Finisher), 103 W. Monroe
 *Holliday Mfg. & Eng. Co. (Gasoline Engines), 160 Bunker
 *Holmes Bros. (Machinists), 73 W Jackson boul
 *†Holmes, Pyott & Co. (Builders' Iron Work & Foundry & Machinists), 13 N Jefferson
 *†Home Stove Works (Stoves), W. 18th & S Rockwell
 *Household Stove Co. (Steel Ranges), 1935 Wentworth av.
 *†Hubley Mfg. Co. (Light Grey Iron Castings & Brass Pattern Work), 35th & Ashland av.
 *†Hughson Steam Specialty Co. (Steam Specialties, etc.), 860 S. Halstead
 *Hydraulic Engineering Works (Hydraulic Press & Pumps), 64 N. Jefferson
 *†Illinois Malleable Iron Co. (Iron & Brass Fdrs., Pipe Fittings & Plumbers' Supplies), 537 Diversey boul
 *†Illinois Sewing Machine Co. (Sewing Machines, etc.), 35 Randolph; Works, Rockford, Ill.
 *†Illinois Steel Co. (Iron, Steel & Brass Castings, All Consumed by the Company; also Machine Shops), 115 Adams
 *§Imperial Brass Mfg. Co. (Brass Fdrs. & Finishers), 245 S Jefferson
 *Inland Steel Co., 1st Nat'l. Bank, Works: Chicago Heights, Ill.; Indiana Harbor, Ind.
 *International Filter Co., 1702 Wabash av
 *†§International Harvester Co. of America (Agricultural Implements, Iron, Steel & Brass Castings, All Consumed by the Company)
 *International Register Co., 118 W Jackson boul
 *†§Jackson, Geo. W. (Inc.) (Excavating & Tunneling Machinery, Iron & Brass Founders), 169 W Jackson boul
 *James, D. O. Mfg. Co. (Gear Cutting), 351 W Monroe
 *Jann & Shank Mfg. Co., 118 W Jackson boul
 †Johnson, Chas., & Son (Fire Escapes, etc.), 89 E. Indiana
 †Johnston & Jennings Co., 38th & Morgan
 *†Jones, W. A., Foundry & Machine Co. (Power Transmitting Machinery & Castings), 57 S Jefferson
 *Joy, C. H. (Slot Machines), 251 S Jeff'n
 *Kaestner & Co. (Elevators, Brewers' & Maltsters', Paint Grinding & Mixing Machinery), 241 S Jefferson
 *Karas Electric Co. (Electric Specialties), 90 Illinois
 *†Kellogg-Mackay Co. (Radiators & Heating Apparatus), 12th & Michigan av
 §Kelly Brass Works, 99 Bunker
 *§Kelly, Thomas & Bros. (Water Closets & Sanitary Brass Goods), Congress & 46th av
 *Kiesler, Joseph F., 68 Pratt
 *†Kimball & Chappell Co. (Metal Bedsteads, etc.), 2834 Loomis
 *Klemm, E. R. (Stone Jacks), 107 W Monroe
 *Klein, Mathias & Sons (Tools), 87 W Vanburen
 *Kling Bros. (Punches, Shears, Plate Rolls & Boltermakers), 287 Hawthorne
 *Klipfel Mfg. Co. (Valves, Regulators, etc.), 44 N Carpenter
 *Koehl, Geo. J. (Rug Machy.), 1527 Milwaukee av
 *Kohler Die & Specialty Co. (Tools, Dies, Presses, Special Machy., etc.), 200 Washington boul
 *Kreiter, Louis, & Co., 194 N. Clinton
 *Kroeschell Bros.' Ice Machine Co. (Ice Machines, etc.), 31 Erie
 *Kyle Bottle Washing Machine Co. (Bottle Washing & Soaking Machines, etc.), 65 N Ashland av
 *Lammert & Mann (Gas & Gasoline Engines, etc.), 155 S Jefferson
 *Lamson Cutter Head Co. (Woodworking Machy.), 41 S Jefferson

*Lang, J. Electric Co. (Elec. Machy.), 116 N Lincoln
 *Lange, Henry G. (Glass Beveling & Coffee Roasting Machinery), 22 N May
 *Larsen, Ivert (Special Machy., Dies, etc.), 51 N Elizabeth
 *Latham Machinery Co. (Bookbinders' Wire Stitching & Perforating Machines, etc.), 199 S Canal
 *Lathey Steel Type Co. (Steel Type, etc.), 204 Illinois
 Latrobe Steel & Coupler Co. (Car Couplers & Steel Castings), Old Colony bldg.
 Lau, Willy H. Co. (Gas & Electric Fixtures), 26 Lake
 *Lemley & Schultz (Machinists), 570 Elston av
 *Lindahl, Henry, Machine Co., 276 W. Lake
 *†Link-Belt Co. (Elevating & Conveying Machy., etc.), W 39th & Stewart av
 *§Liquid Carbonic Co. (Soda Fountains), 67 N Wells
 *†Lovejoy Tool Works (Tools, Jacks, Punches, etc.), 86 E Ohio
 *†M. & D. Range Co. (Ranges, etc.), 100 Lake
 *McCanna Mfg. Co. (Lubricators, etc.), 56 N. Jefferson
 *McCrea, Jas. & Co. (Steam Specialties & Boring Machines for Electric Wiring), 67 W Washington
 *McCune, G. C. (Pumps, Machy., etc.), 186 Leavitt
 *McDonald Machine Co. (Can Making Machinery, etc.), 3207 Shields av
 *McMorran, E. E. & Co. (Metal Specialties), 15 N Clinton
 *Machine Perfecting & Mfg. Co. (Special Machy., etc.), 10 N. Desplaines
 *Marchant, Geo. F. (Punches, Dies, etc.), 47 N Elizabeth
 *Marine Iron Works (Paddle Wheel & Marine Mach'y.), Clybourn & Southport avs
 *Marsh, Jas. P. & Co. (Steam Gauges, etc.), 224 Washington
 *Martin & Walstrom, 65 W Washington
 *Massey Vise Co. (Vises, etc.), 208 Michigan
 *Mateer, F. W. & Co. (Laundry Machy.), 7 S Jefferson
 *Metal Specialties Mfg. Co., 18 W. Randolph
 *Miehle Printing Press & Mfg. Co. (Printing Presses, etc.), 14th & Rohey
 *Miller Chemical Engine Co., 149 Huron
 *Mills Novelty Co. (Coin Operating Machines), 150 Green
 *Mitchell, Frank C. (Printers' Machinist), 418 Dearborn
 *†MONIGHAN MACHINE CO. (Hoisting Engines, Steam Hammers, Grey Iron Castings, etc.), 813 Carroll av. (See adv. index, end of book)
 *Moore-Master Mfg. Co., 44 Michigan
 *Moore & Lorenz Co. (Flour Mill & Grain Elevator Machy.), 816-822 Fulton
 *†Morden Frog & Crossing Works (Frogs, Crossings & R. R. Castings), Com'l Nat'l Bk. bldg
 *Morgan-Gardner Electric Co. (Electric Mining Machinery), 2642 Shields av
 *Mulr, Hugh, Co. (Cast Iron Pulleys, etc.), 240 Carroll av
 *Mulvey, Chas., Mfg. Co., 1331 35th
 *†Munro, Daniel (Iron Fdrs), 234 S Jefferson
 *Murray, W. B. (Gasoline Engines), 353 Wabansia av
 *National Brass Works, 155 E. Washington
 *†National Car Coupler Co. (Car Couplers, Buffers, Steel Platforms, etc.), Monadnock blk. Works: Attica, Ind.
 *†National Foundry Co., 53 Lake
 *National Light, Heat & Power Co. (Gasoline Lamps, Dies, Tools, Screw Machine Work, etc.), 302 W Lake
 *National Machine Works (Brewers' & Maltsters' Machy.), Sheffield & North av
 *†National Malleable Castings Co. (Malleable Iron Castings for R. R., etc.), W. 26th, nr. Blue Island av
 *†§National Stamping & Electric Works (Electric & Special Machinery), 153 S. Jefferson
 *National Steam Specialty Co. (Steam Gauges, Valves, etc.), 230 E. Washington
 *National Vending Machine Co. (Coin Machines), 32 S Canal
 *Nelson, A., Mfg. Co. (Bicycle & Auto Parts), 83 W Randolph
 *Nelson & Le Moon (Machinists), 88 W Monroe
 *Nicholas, T. E., & Co., 75 W. Jackson boul

*Nichols, Geo. P., & Bro. (R. R. & Special Machy., etc.), 313 S. Canal
 *Nye Steam Pump & Machy. Co., 70 W Washington
 *Nye Tool & Machine Works (Mechanical & Electrical Machy.), 17 S. Jefferson
 *†O'Leary, Arthur J., & Son Co., 124 W. Lake
 *Oliver Typewriter Co. (Typewriters), 55 Dearborn; Works, Woodstock, Ill.
 *Ostermann Mfg. Co. (Freight Car Construction & Repairs), 120th & Peoria
 *Ostrander-Seymour Co. (Printing Machy.), 143 Dearborn
 *†Otis Elevator Co., 550 W 15th
 *Owen, E. H. & Co. (Dies, etc.), 32 S Jefferson
 Parsons, Winslow R. & Co. (Sewing Machine Attachments, etc.), 232 S Clinton
 *Partridge, Edw. O., 74 W Lake
 *§Pattison, J. L. & Co. (Brass Fdrs. & Finishers), 162 S Clinton
 *Peerless Electric Co. (Dynamos & Motors), 122 S Green
 *Pelouze Scale & Mfg. Co. (Scales, etc.), 413 Ohio
 *Perking, Chas. & Co. (Bookbinders & Printers' Machinery), 147 S Clinton
 *†Perrin, Wm. R., & Co. (Power & Hydraulic Presses, etc.), 46th & Loomis
 *Perry Side Bearing Co. (Side Bearings, etc.), Monadnock blk
 *Pettibone, Mulliken & Co. (R. R. Frogs, Crossings, Switches, etc.), Marquette bldg
 *Phoenix Fire Extinguisher Co. (Auto. Fire Sprinklers), First Nat'l B'k bldg
 *†Phoenix Foundry Co. (Sash Weights, etc.), 586 S Jefferson
 *†Pilsen Foundry & Iron Works, 609 W 22d
 *†Plamondon, A. Mfg. Co. (Power Transmitting Machy., etc.), 57 S Clinton
 *Plunket, Jas. E. (Drill Press, Gas Engines & Milling Machine Visers), 47 S. Jefferson
 *Pondelick Bros., 186 S Leavitt
 *Pratt, Henry Boiler & Machine Co. (Machinists & Boiler Makers), 877 S Halsted
 *†§Pratt, Wm. E. Mfg. Co. (Malleable Iron Castings, Hdwe. Specialties, etc.), 91 Lake. Works: Joliet, Ill.
 *Price, O. J., 50 N. Clinton
 *†Pridmore, Henry E. (Molding Machines), 918 S Rockwell
 *Pringle & Brody Machinery Co. (Wood Working Machinery, etc.), 277 S Canal
 *Printers' Chase & Machine Works (Special Machy.), 13 N Jefferson
 *Printers' Mfg. Co. (Printers' Machy.), 184 Congress
 *†§Pullman Co. (Car Builders, etc.), Pullman bldg.; Works, West Pullman, Chicago
 *†Pyott Foundry Co. (Iron Fdrs. & Bldrs.' Iron Work), 72 N Sangamon
 *Quadrige Mfg. Co. (Special Machy.), 18 S Canal
 *§Quincy Brass Works (Brass Fdrs. & Finishers), 147 S. Clinton
 *Railroad Supply Co. (Railroad Specialties), 215 Dearborn; Works, Chicago Heights, Ill.
 *Raymond Bros.' Impact Pulverizer Co. (Brick, Cement, Mining, Paint, Pulverizing, etc.), 143 Laflin
 *Rebsamen & Almeroth (Brewers' Machy.), 1071 Elston av
 *†Reder Foundry Co., Canalport & Sangamon
 *Redington, F. B. Co. (Special Machy., Gears, etc.), 107 S Sangamon
 *†Reedy Foundry Co., 2026 Iowa
 *†Reedy, J. W. Elevator Mfg. Co. (Passenger & Freight Elevators & Iron Founders), 91 Illinois
 *Reichel & Drews (Special Machy.), 28 N. Desplaines
 *†Rempe Co. (Cast Iron Pipe & Coils), Sacramento & Carroll avs
 *Rhodes Watch Tool Co., 32 S Jefferson
 *Risser Mfg. Co. (Dies, Tools & Special Machinery), 301 W Lake
 *Ristenbatt, Jno. C., 88 W Jackson boul.
 *†§Riverside Iron Works, 9388 Ewing av.
 *†Roos, Henry Fdry Co., 985 Kimball av.
 *†Root Street Foundry Co. (Grey Iron Castings), 240 Root
 *Roth Bros. & Co. (Dynamos & Motors & Electric Drives), Loomis & Adams
 *Rouse, H. B. & Co. (Printers' Tools, etc.), 61 Ward
 *Rowe, Jas. (Machinists), 241 S Jefferson
 *§Ryan, J. J. & Co. (Brass Founders & Finishers), 105 S Jefferson
 *Saal, H. G. (Dies & Tools), 1183 W. Ravenswood pk

*†Sackett, H. B. Screen & Chute Co. (Coal Handling Mach'y.), 4220 State
 *Sandberg, Adolph L. (Sand Forging, etc.), 173 S Clinton
 *Savage Bros. Co. (Confectioners' Mach'y.), 42 Michigan
 *Schaefer Bros.' Co. (Electrical Mach'y.), 14 Julius
 *Schindler, A. J. (Machinery), 441 W 21st
 *Schultz, A. L. Iron Works (Ice Harvesting Machinery, etc.), 570 Elston av
 *Schultz & Cappers, 343 Austin av.
 *Schureman, J. L. Co. (Elec. Specialties), 80 W Jackson boul
 *†Seybold Machine Co. of Dayton, Ohio (Bookbinding Machinery), 312 Dearborn
 *†Sheffield Foundry Co. (Iron Fdrs.), Clybourn av & Herndon
 *Sheldon, E. H. & Co. (Woodworking Machinery, etc.), 84 N May
 *Shniedewend, Paul & Co. (Photo Engravers' Machy.), 118 W Jackson boul
 *Shultz, Richard A. Co. (Dies, Tools, etc.), 143 Ontario
 *Sinclair Laundry Machinery Co., 40 N Clinton
 *Simmons Mfg. Co. (Iron Beds, etc.), 192 Michigan av
 *†Simplex Railway Appliance Co. (Car Bolsters, Roller Side Bearings, etc.), Com'l Nat'l B'k bldg.; Works, Hammond, Ind.
 *†Skillin & Richards Mfg. Co. (Grain Elevator Machinery), 127 Fulton
 *§Smeeth's Co., 22d & Western av.
 *SMITH, F. P. WIRE & IRON Works (Builders' Iron Work & Iron & Bronze Fdrs.), 100 Lake. (See adv. index, end of book)
 *Smith & Phillips Mfg. Co. (Woodworking Machinery), 122 N Sangamon. Works, La Grange, Ill.
 *†Smith, Chas. Co. (Furnaces, etc.), 101 Lake
 *Smith, F. H. Mfg. Co. (Harness Machy., etc.), 53 St. Johns ct
 *Smurr & Kamen Machine Co. (Wire Crimping, Cutting & Counting Combined Machines, etc.), 97 S. Clinton
 *†South Halsted Street Iron Works (Fdrs. & Bldrs.' Iron Work), 2611 S Halsted
 *Specialty Machinery Co., 140 W Lake
 *†Sprague Canning Machinery Co. (Canning Machy.), 5 Wabash av. Works, Hoopston, Ill.
 *†Sprague-Davis Iron Works, 42 Michigan
 *†Standard Architectural Iron Works, 627 Bloomingdale av
 *Standard Car Truck Co. (Car & Locomotive Trucks, etc.), Old Colony bldg
 *†Standard Forgings Co. (R. R. Forging Specialties), 9 Jackson boul
 *§Star Brass Works (Brass Founders, Whitewash Machines, Finishers, etc.), 188 Lake
 *Staver Carriage Co. (Feed Mills, Carriages, etc.), 76th & Wallace
 *Stearnes Steel Range Co. (Steel Ranges), 188 Lake
 *§Steiz, Jno. L. (Brass Fdrs. & Finishers), 3753 S Halsted
 *§Stier, Herman, Mfg. Co. (Brass Founders Finishers), 560 N Halsted
 *§Street & Kent Mfg. Co. (Brass Fdrs., Plumbers' Brass Specialties), 109 S Jefferson
 *Strohm, W. A. & Bro. (Bicycles & Novelties), 588 W Lake
 *Strube Machine Works (Machinists, Special Machinery), 455 25th
 *†Sullivan Machinery Co., Railway Exch. bldg
 *Superior Machine Works (Machinists), 196 W 12th
 *Superior Machine & Boiler Works (Machinists), 133 W Superior
 *Superior Stove Works (Laundry Stoves), 115 W Superior
 *Surerus & Greenhill (Milling Cutters, etc.), 109 Racine av
 *†Tarrant Foundry Co. (Iron Fdrs., Light & Heavy Grey Iron Castings, etc.), 46 Indiana
 *Tarrant, Robt. (Marine Engines, etc.), 56 Illinois
 *†Temple Pump Co. (Engines, Pumps & Windmills), 23 W 15th
 *Templeton, Kenly & Co. (Track Jacks, etc.), 18 Sloan
 *Trevander, O. N., & Co. (Dies, Tools, etc.), 173 S Canal
 *§Thomas Bros.' Mfg. Co. (Brass Founders & Hardware Specialties, Finishers, etc.), Fillmore & Rockwell
 *Thomas Elevator Co. (Hod Hoisting Machy., etc.), 133 S Hoyne

***THOMAS & SMITH (Inc.)** ("Economy" Hot Air Pumping Engines), 17 S Carpenter. (See adv. index, end of book)

***Tietgen, Falk & Co.** (Gas & Electric Fixtures), 79 W Van Buren

***Toles, W. C. Co.** (Spiral Machinery & Vises), 2479 N. 42d st., Irving pk

***Trenkhorst, Frank Mfg. Co.** (Brass Fdrs. & Finishers), 67 Larrabee

***Tunellus Machine Co.**, 232 S. Clinton

***Union Drop Forge Co.** (Drop Forging & Machinists), 69 Indiana

***Union Elevator & Machine Co.** (Elevators & Machinery), 144 E. Ontario

***UNION FOUNDRY WORKS** (Iron Founders & Builders' Iron Work), First National Bank bldg

***Union Special Machine Co.** (Sewing Machines), 75 E Kinzie

***†Union Wire Mattress Co.**, Cherry av. & Black Hawk

***Universal Automatic Type Casting Machine Co.** (Type Casting Machines), 97 N. Sheldon, Chicago, Ill.

***Universal Folding Machine Co.** (Paper Folding Machines), Old Colony Bldg.

***Van Doren Mfg. Co.** (Tool Holders, etc.), 56 W. Van Buren

***†Variety Mfg. Co.**, Sacramento & Carroll avs

Vaughn & Bushnell Mfg. Co. (Hardware Mfrs.), 885 Carroll av

***†Vierling, McDowell & Co.** (Founders & Bldrs.' Iron Work), 23d & Stewart av

***†Vulcan Iron Works** (Fdrs. & Machinists, Dredging & Pile Driving Machinery), 28 N. Irving av.

***Watling Mfg. Co.** (Coin Operating Machines), 155 W Jackson

***Weber Bros.' Metal Works**, 23 S. Jefferson

***†WEBSTER MFG. CO.** (Elevating, Conveying & Power Transmitting Machinery), 1075 W 15th. (See adv. index, end of book)

***†§Weir & Craig Mfg. Co.** (Steam Specialties, etc.), 2439 Wallace

***†§Welch, E. J., Foundry Co.** (Brass & Iron Castings, etc.), 24th pl. & Wallace

***†WELLER MFG. CO.** (Elevating, & Conveying, Grain Elevator, Power Transmitting Machinery, etc.), 124 E North av. (See adv. index, end of book)

***Wells, F. C.** (Est. of) (Steam Pumps), 116 S Clinton

***Westerlin & Campbell Co.** (Refrigerating Machy.), 53 S Clinton

§Western Brass Mfg. Works (Brass & Bronze Hardware, Plumbers' Brass Goods & Brass & Composition Castings), W 21st pl & S Rockwell

***†§Western Electric Co.** (Electric Machinery & Specialties), 259 S Clinton

†Western Foundry Co. (Iron Fdrs., Soft Grey Iron Castings), 3634 S Kedzie av

***†Western Steel Car & Foundry Co.** (Steel Cars & Castings), Old Colony bldg

***White Bros.** (Machinists), 1347 Fulton

†§White Brass Castings Co. (Finished Hand Metal Castings), 527 Austin av.

***Whitling, Geo. Co.** (Punching & Shearing Machy.), 156 W North av

***†WHITMAN & BARNES MFG. CO.** (Agl. Impts., Twist Drills, Wrenches, etc.), West Pullman (See adv. index, end of book)

***Willard Sons & Bell Co.** (Steam Forging & Machinists), 98th & Erie av

***§Wilson Hardware Mfg. Co.**, 107 W. Monroe

***†§WINSLOW BROS. CO.** (Builders' Iron & Bronze Work, Iron, Brass & Bronze Castings), 2515 W Harrison. (See adv. index, end of book)

***Wishart-Burge Machine Works**, 64 N. Jefferson

***Wold, Torris & Co.** (Canners' & Special & Experimental Machy. & Models), 68 N Jefferson

***†Wolf, Fred W. Co.** (Ice Making Machy., etc.), 139 Rees

***†§Wolf, L. Mfg. Co.** (Iron & Brass Fdrs., Plumbers' Supplies, Cast Iron Pipe & Plumbers' Brass Goods, etc.), 93 W Lake

***Wood, Morris & Sons** (Moulding & Carving Machines), 2714 W. Lake

***Wrigley, Thos. & Co.** (Printing Presses & Special Machy.), 302 Dearborn

***Ycomans Bros.** (Pumps, etc.), Monadnock blk

***Zoeller, Wm. Co.** (Machinist), 81 N. Curtis

CHICAGO HEIGHTS — ***†§American Brake Shoe & Foundry Co.** (Brake Shoes, Steel Castings, etc.), Main Office, Mahwah, N. J.

***†American Car & Equipment Co.** (of Chicago)

***Ayer, Fred H. Mfg. Co.** (Electrical Appliances, etc.)

***†Bonnet-Nance Stove Co.** (Stoves, Ranges, etc.)

***†Canedy, Otto, Mfg. Co.** (Anvils, Vises, Forges, Blowers, Drills, etc.)

***†Canedy, A. E.** (Pumps, Electrical Specialties, etc.)

***†Chalmers & Williams** (See Chicago)

***Funk Bros.** (Miners' Tools & Supplies, etc.)

***Inland Steel Co.** (See Chicago, Ill.)

***†Kennicott Water Softener Co.** (Water Softeners, etc.)

***†King & Andrews Co.** (Steel Castings & Iron Founders, etc.)

***Phoenix Fire Extinguisher Co.** (See Chicago, Ill.)

***†Quaker Mfg. Co.** (Hot Air Furnaces & Heaters, etc.)

***Wood, Smith & Co.** (Carriage & Wagon Axles, etc.)

CHICAGO RIDGE—***Prince Mfg. Co.** (Washing Machines, etc.)

CHILLICOTHE—***Slinn, H. H.**

CHRISMAN—***Bonner Mfg. Co.** (Pipe Wrenches, etc.)

CISSNA PARK—***†Gerald, Michael** (etc.)

CLAYTON—***†Birkett, A. S.**

COBDEN—***Ede, Geo. A.** (Machinist)

COLLINSVILLE—***†Bernhardt, Niehaus & Co. (Inc.)**

***†Blum Mfg. Co.** (Stock Bells, etc.)

CONCORD—***Rayborn, J. J.**

COULTERSVILLE—***†Bouas, E.**

DANVILLE—***Chicago & Eastern Ry.**

***†§Danville Foundry & Machine Co.**

***†Fairweight Standard Scale Co.**

***Holmes, Robert & Bros. (Inc.)**

DECATUR—***Beall Improvement Co.** (Flour Mill Machinery)

***Bold, Wm. M.** (Machinist)

***Brett, Wm. P.** (Machinist)

***†Central Malleable Iron Co.** (Malleable Iron Castings)

***Chambers - Berling - Quinlan Co.** (Agl. Impts.)

***Curtis Motor Truck Co.** (Car Wheels, Axles & Car Trucks)

***†Farles Mfg. Co.** (Special Machy. & Hdw. Specialties, etc.)

Hartley, C. J. Co. (Machinists)

***§Mueller, H. Mfg. Co.** (Drilling & Tapping Machines, Brass Fdrs. & Plumbing Gds)

***†Oakes, W. L.** (Engines, Grey Iron Castings, etc.)

***†Union Iron Works** (Flour Mill Machy., Corn Shellers, etc.)

***Williams Mfg. Co.** (Corn Planters, etc.)

DE KALB—***De Kaib Fence Co.** (Wire Stretchers, etc.)

***†Halsh, Jacob, Co.** (Barb Wire & Agricultural Implements)

***†Smith Mfg. Co.** (Impts., Gasoline Engines, etc.)

***†Standard Foundry & Mfg. Co.**

***Union Fence Co.** (Wire Stretchers, etc.)

DIXON—***Coe, Henry M.**

***Clipper Lawn Mower Co.** (Gasoline Engines, Lawn Mowers, etc.)

†§Dixon Mfg. Co.

***†Grand Detour Plow Co.** (Agl. Impts., Plows, etc.)

DOLTON'S STATION—***§Knudsen-Von Kotzen Mfg. Co.** (Valves, etc.)

DOWNERS GROVE—***Dicke Tool Co.** (Line-men's Construction Tools, etc.)

DU QUOIN—***†Blakeslee Mfg. Co.** (Steam Pumps, etc.)

DWIGHT—***†Spencer, J. A.** (Hay Presses, etc.)

EAST MOLINE—***Borg & Beck** (Wood Working Machinery)

***Midland Motor Co.** (Automobiles)

***Moline Automobile Co.** (Automobiles, Motors, etc.)

***†§Moline Scale Factory** (Platform & Wagon Scales, etc.)

***†Root & Van Der Voort Engineering Co.** (Gas, Holsting, Stationary Engines, etc.)

†Union Malleable Iron Co. (Malleable Castings)

***†Walsh Brake Shoe & Foundry Co.** (Brake Shoes, etc.)

EAST ST. LOUIS—***†American Steel Foundries Co.** (See N. Y. City)

***East St. Louis Locomotive & Machine Shop Co.** (Locomotives & Steam Shovels, etc., Rebuilt)

***†Elliott Frog & Switch Co.** (Frog, Switches, Railroad Specialties, etc.)

***†Excelsior Tool & Machine Co.**

***†§MacGowan & Finnigan Fdy. & Machine Co.** (See St. Louis)

***†Missouri Bridge & Iron Co.**

***†§Missouri Malleable Iron Co.**

***†National Iron Works** (Iron Fdrs.)

***†Pioneer Machine Co.**

†Railway Steel Spring Co.

***St. Louis Steam Forge & Iron Works**

***†Standard Railway Equipment Co.**

***†Symonds Mfg. Co.** (Registers)

***†Western Forge Co.** (See St. Louis.)

EDWARDSVILLE—***†Blgnai & Keeler Mfg. Co.** (Pipe Cutting, Threading & Shaping Machinery)

***Desmond, M. Mfg. Co.**

***Dunstedler, J.** (Machinist)

***§Edwardsville Brass Co.** (Brass Fdrs. & Plumbers' Brass Goods)

***†Sodemann Heat & Power Co.** (See St. Louis, Mo.)

EFFINGHAM—***Ait, Fred**

ELDORADO—***†Glasscock & Clark** (Fdrs. & Machinists)

ELGIN—***§Elgin Brass Foundry Co.** (Brass Castings)

***Elgin Brass & Electrical Mfg. Co.** (Gas & Electric Fixtures)

***Elgin Metal Novelty Co.**

***†Elgin Mfg. Co.** (Condensed Milk Machinery)

***Elgin National Watch Co.** (Watches & Metal Cases)

***Elgin Tool Works (Inc.)** (Mach'y, Tools, etc.)

***Elgin Wind Power & Pump Co.** (Windmills & Pumps)

***Moseley Lathe Co.** (Bench Lathes, etc.)

***§Moody Bros.** (Countershafts, etc.)

†Western Casket Hardware Co. (Casket Hdw., etc.)

***†Woodruff & Edwards Co.** (Coffee Mills & Grey Iron Castings, etc.)

EOLA—***†Larimer Mfg. Co.** (Hdw. Specialties, etc.)

EVANSTON—***†Comstock, A. S.** (Air Pumps, Gas Forges, etc.)

****Mark Mfg. Co.** (Artesian & Tubular Well Specialties, etc.)

FAIRFIELD—***Heldinger Machine Works** (Machinists)

FILLMORE—***Whitten & Ludewick**

FRANKLIN PARK—***†Forster, Waterbury & Co.** (Malleable Iron Fdrs.)

FREEPORT—***†§Arcade Mfg. Co.** (Light Grey Iron Castings & Hardware Specialties)

§Freeport Brass Foundry

***†Freeport Gas Machine Co.** (Gas Engines, etc.)

***†Freeport Windmill & Gas Engine Co.** (Gasoline Engines, Grey Iron Castings, Windmills, etc.)

***Hoefler Mfg. Co.** (Machine Tools, etc.)

***Johnson Bros.** (Wrenches, etc.)

***Kochsmeier, H. P.** (Machinists)

†Lamb & Co. (Flour & Feed Mills)

***Ritche & Lukemann**

***Schofield & Co.** (Potato Diggers, etc.)

***†Severance Gas Machine Co.** (Gas Machines, etc.)

***†Stover Engine Works (Inc.)** (Gasoline Engines, etc.)

***†Stover Mfg. Co.** (Hdw. Specialties, Windmills, Pumps & Light Grey Iron Castings, etc.)

***†§Woodmanse Mfg. Co.** (Pumping & Power Steel & Wooden Windmills & Iron & Brass Fdrs.)

FULTON—***†Mississippi Valley Stove Works** (Stoves, etc.)

GALENA—***Cleveland & Pitcher** (Ore Separators, etc.)

***†§Galena Iron Works Co.** (Iron Founders & Mining Machinery, etc.)

***†Westwick, Jno., & Son** (Machinists & Fdrs.)

GALESBURG—***Chicago Writing Machine Co.** (Typewriters, Adjustaphones, etc.)

***†§Colton, G. D. & Co.** (Agricultural Impts., Feed Mills, Hay Presses, etc.)

***†Frost Mfg. Co.** (Steam Engines, Boilers, Dry Pans, etc.)

***†Galesburg Coulter Disc Co.** (Agl. Impts.)

***†Galesburg Machine Works** (Machinists)

†Galesburg Malleable Castings Co. (Malleable Iron Castings)

***May Bros.** (Windmills, etc.)

§Merrick, J. A.

***†Walton-Van Huffel Mfg. Co.** (Foundry Machy., etc.)

***†Wenzelmann Mfg. Co.** (Farm Elevators & Wagon Dumps)

GALVA—***†Collinson, Frank J.** (Fdry. & Machinists)

***†Hayes Pump & Planter Co.** (Pumps, Cultivators, Planters, etc.)

***†Mulford Heater Co.** (Steam Heaters & Corn Planters)

***†Wistrand Mfg. Co.** (Pumps, Corn Planters, etc.)

GENOA—*Eureka Electric Co. (Telephones, etc.)

GENEVA—*†Burgess-Norton Mfg. Co. (Hdw. Specialties, etc.)

*†Geneva Foundry & Machine Co.

*†Howell, W. H. Co. (Sad Irons, etc.)

GIBSON CITY—*†Gibson Iron Works (Radiators & Iron Fdrs.)

*Roth & Augspurger (Heavy Machy., etc.)

*Roth, Yoder & Co. (Heavy Machy., etc.)

GRAFTON—*Rippley Hardware Co. (Steam Feed Cookers, Sprayers & Metal Boats)

GRANITE CITY—*†American Steel Foundries (Steel Cars, Trucks & Castings). (See Chicago, Ill.)

*†Commonwealth Steel Co. (Steel Castings, Car Tracks, etc.). (See St. Louis, Mo.)

*Hoyt Metal Co.

*†National Enameling & Stamping Co. (See New York City)

GREENVILLE—*Kruger, P. J. (Machinist)

HARVARD—*†Hunt-Helm-Ferris & Co. (Haying Tools, etc.)

HARVEY—*†American Stove Co. (of St. Louis), Stoves, Steel Ranges, etc.)

*†Austin Mfg. Co. (See Chicago.)

*Bliss & Laughlin (Key Seating & Shafting)

*†Buda Foundry & Mfg. Co. (R. R. Specialties)

*†Calumet Engineering Works (Complete Foundry Equipment, Cranes, Hoists)

†Enterprise Foundry Co. etc.)

†Koch Bros.

*†**WHITING FOUNDRY EQUIPMENT** Co. (Fdry, Equipments, Electric Cranes, etc.) (See adv. index, end of book)

HAVANA—*Crescent Forge & Shovel Co. (Shovels, etc.)

*†Havana Mfg. Co. (Gas Engines, etc.)

*†Havana Metal Wheel Co. (Metal Wheels, Plow Shares, Cultivators, Shovels, etc.)

*†McFadden Mfg. Co. (Gasoline Engines, etc.)

*Schmidt & Harsman etc.)

HIGHLAND—*Leutwiler Bros. (Machinists)

HINCKLEY—*Davis, L. E.

*HOOPESTON—Malleable Iron Works

*†Sprague Canning Machinery Co. (See Chicago)

HOOPPOLE—*Goemmel, H. S.

JACKSONVILLE—*†Bambrook, A. W.

*†Illinois Steel Bridge Co.

*†C. P. & St. Louis Railway Shops

*Kellogg Bros. & Co. (Machinists)

JOLIET—*Adams Steel & Wire Works (Archl. Iron Work, etc.)

*†Bates Machine Co. (Steam Engines & Wire Mill Machy., etc.)

*†Buckeye Engine & Foundry Co. (Gas & Gasoline Engines, etc.)

*†Champlon Machinery Co. (Bakers' Machinery, etc.)

*Ditto, G. M. (Agrl. Implementers)

*Falkner, Wm. (Bakers' Machy., etc.)

*Hardy, Wallace L. (Machinist)

†Holsworth, Edwin A.

*†Humphrey & Sons (Agrl. Impls., Iron Fdrs. & Machinists, etc.)

*†Illinois State Prison

*†Illinois Steel Co. (See Chicago)

*Joliet Bridge & Iron Co.

*†Joliet Mfg. Co. (Corn Shellers, etc.)

*Monahan Bros. (Inc.)

*†Moore Bros. Co. (Stoves, etc.)

*†Pratt, Wm. E. Mfg. Co. (See Chicago)

*Taylor Husker & Shredder Co. (Huskers & Shredders, etc.)

*Van Fleet Mfg. Co.

Western Steel Car & Foundry Co. (See Chicago, Ill.)

KANKAKEE—*†Beaumont, Richard (Valves)

†Kankakee Foundry Co. (Hydrants, etc.)

†Kankakee Mfg. Co. (Grey Iron Castings)

†Pratt, Edwin

*Soper, Geo. E.

*Tait Mfg. Co. (Machy., etc.)

KEWANEE—*Demmler, Wm. & Bros. (Foundry Plant Machy., etc.)

*†**KEWANEE BOILER CO.** (Heating Apparatus.) (See adv. index, end of book)

*†Peters Pump Co. (Agrl. Impls., Pumps)

LADD—*Erickson, Andrew L. etc.)

*†National Tube Co. (See Pittsburg, Pa.)

LA GRANGE—*†Smith & Phillips Mfg. Co. (Woodworking Machy.)

LA SALLE—*La Salle Machine & Tool Co. (Surface Grinders, etc.)

*Western Clock Mfg. Co. (Clock Mfrs., etc.)

LEROY—*Jones, Chas. D. (Machine)

LIBERTYVILLE—*Laycock, Wm. Co. (Engines, etc.)

LINCOLN—*Cottingham, Wm. S.

*†Iles, Edw. (Foundry)

*Mohn, H. & Son (Machinists)

*Moos, Jno., Sr.

LITCHFIELD—*†American Radiator Co. (See Chicago)

*†Litchfield Fdry. & Machine Co. (Machinery & Grey Iron Castings)

LOCKPORT—*†Barrows Lock Co. (Bldrs. Hardware & Specialties)

McHENRY—*Engeln, M. & Son

MACOMB—*†Fisher, Arch. (Fdry. & Machinist)

MADISON—*†American Car & Foundry Co. (See St. Louis, Mo.)

MARENGO—*†Marengo Foundry & Machine Co. (Gas Engines, etc.)

MARION—*†Crain, Benj. (Machinist & Fdry.)

MAROA—*†Maroa Mfg. Co. (Agrl. Impls., Cultivators, Car Loaders, etc.)

MARSEILLES—*Goodell, J. H. & Son

*†Marseilles Mfg. Co. (Agrl. Impls., etc.)

*Marseilles Harrow Mfg. Co. (Harrow, etc.)

MARTINSVILLE—*Rowe, M. A. (Machinist)

MASON CITY—*Heckman & Co. (Machinists)

MATTOON—*†Chuse Engine & Mfg. Co. (Engines, Fdrs., Machinists, etc.)

*Thatcher, Jas. A. & Sons

MAYWOOD—*†Featherstone Fdry. & Machine Co. (See Chicago)

MELROSE PARK—*†Featherstone Fdry. & Machine Co. (See Chicago)

*†Latrobe Steel & Coupler Co. (See Chicago, Ill.)

MENDOTA—*Black Bros. Machinery Co.

*†Mendota Mfg. & Transfer Co.

*†Tower, J. D. & Sons Co. (Agrl. Impls.)

MOLINE—*†Barnard & Leas Mfg. Co. (Flour Mill & Grain Elevator Machy.)

*Central Machine & Metal Co.

*Chicago, Rock Island & Pacific Ry. Shops

*†Cooper, H. W. (Saddlery, Hdw. & Grey & Malleable Iron Castings)

*†Deere & Co. (Inc.) (Agrl. Impls.)

*†Deere & Mansur Co. (Agrl. Implt. Mfrs.)

†Moline Foundry Co. (Grey Iron Castings)

*†Moline Plow Co. (Agrl. Impls., Plows, etc.)

*†Moline Pump Co. (Pumps, Gas Engines, etc.)

*Moline Tool Co. (Gang Drills & Speed Lathes)

*Ostlund Garage & Machine Shop

*†Schmidt, Henry (Brass Fdry & Finishers)

*†Schmidt, Joseph (Brass Fdry.)

*Sechler, D. M. Carriage Co. (Carriages & Agrl. Impls.)

*†Williams, White & Co. (Inc.) (Heavy Machy.)

MONMOUTH—*†McIntosh Fdry. & Machine Co.

*Milne Mfg. Co. (Stump Pullers, etc.)

*†Monmouth Plow Co. (Plows, Cultivators, Harrows)

*†Pattee Plow Co. (Agrl. Impls., Plows, etc.)

MORRIS—*†Coleman Hardware Co. (Door Hangers & Bldrs., Hdw., etc.)

*Ferguson, C. D.

*†Nickel Mfg. Co. (Hdw. Specialties & Grey Iron Castings)

MOUNT CARMEL—*West & Hall

MOUNT CARROLL—*Kneale & Kessler

MOUNT VERNON—*†Mount Vernon Car Mfg. Co. (Cars, Car Wheels, Castings, etc.)

MURPHYSBORO—*Fisher Slack Adjuster & R. R. Equipment Co.

*†Southern Illinois Machine & Fdry. Co. (Mine Ventilating Fans, etc.)

NAPERVILLE—*Goetsch, Frank S. & Son (Plows, etc.)

NEW ATHENS—*†Auto Stove Works (Stoves, etc.)

NOKOMIS—*Kramer & Elvers (Machine Shop)

NORTH AURORA—*Sperry, D. R. & Co.

NORTH CHICAGO—*Chicago Hardware Co. (Hardware Mfrs.)

*†Chicago Hardware Fdry. Co. (Light Grey Iron, Brass & Aluminium Castings, etc., Gas Engines, etc.)

*Nagel Gas Engine Co. (Gas Engines)

*North Chicago Machine Co. (Gas Engines, etc.)

*Practical Gas Construction Co. (Gas Works Machinery, etc.)

O'FALLON—*†Willard, Wm. G. (See St. Louis, Mo.)

OLNEY—*Remy, N. T. (Machinist)

OREGON—*American Lock Nut Co. (Lock Nuts, etc.)

*Barden, J. A.

*†Oregon Fdry. & Mach. Co. (Molding Machines)

OTTAWA—*American Hdw. Mfg. Co. (Cream Separators, etc.)

*King & Hamilton Co. (Agrl. Impls., etc.)

*†Knowles, W. H. (Builders' Iron Work & Castings)

*†Porter, J. E. Co. (Pumps, Haying Tools & Iron & Brass Castings)

PANA—*Progressive Mercantile & Mfg. Co. (Novelties, Hdw. Specialties, etc.)

PARIS—*†McGulre-Cummings Mfg. Co. (See Chicago)

*†Reese, F. W. Foundry & Machine Co.

*Robertson, J. L., Machine Co.

PEKIN—*†Duesdler Fdry. & Mfg. Co.

*†Pekin Engine & Machine Co.

*†Pekin Hdw. Co. (Hdw. & Farm Machy.)

PEORIA—*†Acme Harvesting Machine Co. (Agrl. Impls.)

*Armstrong, Jas. C. Foundry & Machine Co.

*†Avery Co. (Agrl. Impls., Engines, Cultivators, Stackers, etc.)

*†Bartholomew Co. (Coffee & Peanut Roasting Machines & Automobiles)

*Brass Foundry & Heating Co. (Brass Fdrs. & Machinists)

*†Cody, Joseph & Sons (Iron Fdrs., Boilers, etc.)

*†Coleman Mfg. Co. (Threshing Machy., Traction Engines, etc.)

*†Culter & Proctor Stove Co. (Stoves, etc.)

*Engel, J. A. & Co. (Agrl. Impls.)

†Excelsior Foundry Co. (Grey Iron Castings)

*Hagerty Bros.

*†Hart Foundry Co.

*Hart Grain Weigher Co.

*Herschel, R. Mfg Co (Agrl Impls)

*Illinois Electrical Mfg. Co.

*†Kingman Plow Co. (Agrl Impls, Plows, etc.)

*†Kinsey & Mahler Co. (Steam Specialties & Brass Fdrs.)

*†Lucas, Adam & Sons (Iron Fdrs., Builders' Iron Work and Machinists)

*McAleenan Boiler Co (Boiler Makers' Machinery)

*Marcus, Jas. V. (Machinist, Blacksmith, Forging, etc.)

*Meyer Furnace Co. (Hot Air Furnaces & Founders, etc.)

Nichols & Shepard Co. (See Battle Creek, Mich.)

*†O'Rourke & Co. (Iron Founders)

*Oltmanns, Schmidt & Co. (Ornamental Iron Work, Blacksmith, Machinist, etc.)

*†Peoria Drill & Seeder Co. (Grain Drills, etc.)

†Peoria Foundry Co (Iron Fdrs, Bldrs' Castings, etc.)

*Schnelder, Jno & Co (Machinists)

*Smith, E. M. & Co.

*Struthers, R. F. (Lightning Rods, etc.)

*Tichenor, F. C. (Tools, etc.)

*Turnbull, W.

*Wantling Mfg. Co. (Coal Drills)

*†Western Stove Works (Furnaces, Stoves & Ranges)

*Whittemore, C. & Son

*Wright Machine Co (Threshing Machines, Saw Mills, Etc.)

PERU—*†Brunner, Chas. (Gas Engines, Scales & Castings)

*Peru Plow & Wheel Co. (Agrl. Impls., Plows, etc.)

PINCKNEYVILLE—*†Eaton Plow Works (V. A. Stookey & Son, Props. (Plow Mfrs. etc.)

PLANO—*†Independent Harvester Co. (Agrl-cultural Impls., Iron Castings, etc.)

*†Sears, A. H. Co. (Agrl. Impls., etc.)

PONTIAC—*†Spartan Mfg. Co. (Grey Iron Castings, Feed Mills, etc.)

PRINCETON—*Evans, Coppins & Starks Co. (Ball Bearing Axles, etc.)

PROPHETSTOWN—*Eclipse Lawn Mower Co. (Lawn Mowers, etc.)

QUINCY—*Barmier, B. (Machinist)

*†Bush, Clement (Metal Wheels, etc.)

*†Central Iron Works (Tumbling Mills, Castings, etc.)

*Chadwick & Son (Jobbing)

*†Channon-Emery Stove Co. (Stoves, etc.)

*Collins Plow Co. (Agricultural Impls.)

*†Comstock-Castle Stove Co. (Stoves & Ranges)

*†**ELECTRIC WHEEL CO.** (Metal Wheels, Cars, Carts, etc.). (See adv. index, end of book)

*Empire Mfg. Co. (Metal Wheels)

*Ertel, Geo. Co. (Hay Presses, etc.)

*†Excelsior Stove & Mfg. Co. (Stoves & Ranges)

*†Gardner Governor Co. (Air Compressors, Pumps, etc.)

*†Gem City Stove Mfg. Co. (Stoves, Heaters & Furnaces)

*Greenleaf, C. M. (Jobbing)

*Hollister-Whitney Co. (Elevators, Power Transmission, etc.)

*Kurz, J. & W. (Engines, etc.)

†Lahan Stove & Mfg. Co. (Stoves, etc.)

*†Leader Foundry Co. (Grey Iron & Bldrs' Castings)

*†**LITTLE, J. R. METAL WHEEL**
Co. (Steel Wheels for All Purposes). (See
adv. index, end of book)

***Massie, S. B. & Son** (Machinists)

*†**Modern Iron Works** (Plumbers' Cast
Iron Specialties, Pumps, etc.)

*†**Quincy Corn Planter Co.** (Agrl. Impls.,
etc.)

***Quincy Elevator Gate Co.** (Elevator
Gates, etc.)

***Quincy Enameling & Foundry Co.**

*†**Quincy Foundry & Novelty Co.** (Stoves,
etc.)

*†**Quincy Stove Mfg. Co.** (Stoves)
***Reese, W. J. Brass Fdry.**

***Sharp & Becker Machine Co.** (Presses,
Dies, etc.)

*†**Sheridan Stove Mfg. Co.** (Stoves)

Stahl, Wm. Co. (Metal Wheels, etc.)

***Van Dorn Co.** (Ornamental Iron &
Brass Work & Brass Castings)

*†**White, Thos. Stove Co.** (Stoves)

***Wicbmer, Anton**

***Williamson, L. C.**

ROBINSON—***Warren Machine Co.** (Oil Well
Machinery, etc.)

ROCHELLE—*†**Billmire Bridge & Iron Works**
Co.

†**Whitcomb, Geo. D., Co.** (Mining Mach'y.,
Stopcock Valves, etc.)

ROCK FALLS—***Eureka Co.** (Working Mach-
ines)

*†**International Harvester Co.** (Keystone
Works). (See Chicago)

*†**Sterling Mfg. Co.** (See Sterling, Ill.)

***Ulrich Mfg. Co.** (Agrl. Impls.)

ROCKFORD—*†**America Heating Co.** (Heat-
ers, etc.)

***Andrews Wire & Iron Works** (Lock-Nuts,
etc.)

***Automatic Lock Nut Co.** (Lock-Nuts)

*†**Barnes, W. F. & Jno. Co.** (Mach. Tools
& Woodworking Mach'y)

***Burson Mfg. Co.** (Knitting Machines)

***Dickenson, H. G.** (Jobbing Machinist)

***Dobson Mfg. Co.** (Creamery Supplies &
Brass Castings)

Eclipse Gas Stove Co.

*†**Emerson Mfg. Co.** (Agrl. Impls., Mow-
ers, Plows, Cultivators, etc.)

***Forest City Bit & Tool Co**

*†**Greenlee Bros. & Co.** (See Chicago)

*†**Illinois Sewing Machine Co.** (See Chi-
cago)

***Ingersoll Milling Machine Co** (Mach
Tools)

*†**Love, M. A. Mfg Co** (Pumps, Fdrs &
Machinists)

***Marsh, H. C. Co.** (Mitre Machines, etc.)

***Mechanics Machine Co.** (Machine Tools)

†**National Lock Co.** (Locks, etc.)

***Redin, Eckstrom & Co.**

***Redin, Jno E.** (Light Mach'y & Tools)

***Rockford Brass Works** (Plumbers'
Brass Goods, etc.)

*†**Rockford Drilling Machine Co.**

*†**Rockford Engine Works (Inc.)** (Gasoline
Engines, etc.)

*†**Rockford Machine Tool Co.** (Machine
Tools, etc.)

*†**Rockford Malleable Iron Works (Inc.)**

*†**Rockford Mfg Co** (Agrl Impls, Plows,
Harrows, Etc.)

***Rockford Tool Co.**

***Rockford Watch Co.** (Watches, etc.)

*†**Rockford Well Drill Co.** (Well Drilling
Mach'y)

***Savage & Love Co.** (Gas & Gasoline En-
gines, etc.)

***Spengler Bros. Co.** (Machinists)

*†**Trahern Pump Co** (Pump Mfrs, Etc.)

*†**Union Foundry & Machine Co.** (Grey
Iron Castings, etc.)

*†**Ward Pump Co.** (Pumps, Hydraulic Rams
& Castings, etc.)

***Woodward Governor Co.** (Water Wheel
Governors, etc.)

ROCK ISLAND—***Adams, Otto** (Tools, Dies,
etc.)

***Davis, Thomas B.**

***Electric Construction & Machine Co.**

*†**Kuhner Engine & Machine Co.** (Gasoline
Engines)

*†**Mager, S. A., Mfg. Co.** (Arch'l, Iron
Work, Brass & Grey Iron Castings &
Machinists)

***Rock Island Machine Shop**

§**Rock Island Metal Foundry** (Aluminum,
Brass & Bronze Castings)

*†**Rock Island Plow Co.** (Plows, Cultiva-
tors, Harrows, Planters, etc.)

*†**Rock Island Stove Co.** (Stove Mfrs.)

*†**Rock Island Tool Co.** (Grey Iron Cast-
ings, Bench Vises, etc.)

***Schott, Wm. G.**

***Twin City Die & Tool Works**

***U. S. Arsenal** (Fdry, Dept.)

*†**Walsh Brake Shoe & Foundry Co.**

ROSELLE—***Becker & Leiseberg**

RUSHVILLE—***Rushville Machine & Wagon**
Co

ST. CHARLES—*§**Crown Electrical Mfg. Co.**
(Chandeliers, Bicycle Chains, etc.)

***Doig File Co.** (Files, etc.)

†**Faultless Mfg. Co.** (Steel Ranges, etc.)

*†§**Glenn Mfg. Co.** (Soil Pipe, etc.)

***Leader Fence Machine Mfg. Co.**

†**Moline Malleable Iron Co**

***Switzer, W. R.** (Machinist)

SALEM—***Merz, N., & Son.**

SANDWICH—*†**Enterprise Windmill Co.**

***Estep & Dolan** (Angle Benders, etc.)

***Sandwich Electric Co.** (Electrical Spe-
cialties)

*†**Sandwich Mfg. Co.** (Agrl Impls, Har-
vesters, Mowers, etc.)

***Sandwich Pole-Changer Co.** (Electrical
Instruments, etc.)

SAVANNA—***Stransky & Oyster** (Agrl. Impls.)

SENECA—***Shaw's, J. L. Sons** (Machinists)

SHAWNEETOWN—*†**Quick, James A.**

SHELBYVILLE—*†**Shelbyville Machinery Co.**

*†**Sturgis, W. B. & Son** (Plows, etc.)

SHELDON—***Harris, F. F.**

SIDELL—***Cross, Chas. E.**

SOMONAUK—***California Windmill Co.**

SPARTA—†**Crothers, F. R. & Co.** (Sparta
Plow Works) (Plows, Harrows, etc.)

***Little Giant Punch & Shear Co.** (Punches,
Shears, etc.)

*§**Sproul, Matt.**

SPRINGFIELD—*†**Aetna Fdry. & Mach. Co.**
(Power Transmitting Machinery, Cast-
ings, etc.)

***Ansell, Oscar** (Machinists)

***Bieser, Jacob** (Machinist)

†**Farris, Joseph**

***Fetzer & Co.** (Agrl. Impls., etc.)

***Hass, R., Electric & Mfg. Co.** (Electrical
Supplies, etc.)

***Heineke & Co. (Inc.)** (Straw Stackers,
etc.)

*†**Ide, A. L. & Sons** (Steam Engines, etc.)

***Illinois Watch Co.** (Watches, etc.)

***Mussillon, J. A., & Bro.**

***Otto & Scherf.**

*†**Racine Sattley Co.** (Vehicles, Agrl.
Impls., etc.)

*†**Sangamon Electric Co.** (Water Meters)

*†§**Springfield Boiler & Mfg. Co.** (Dredg-
ing Mach'y)

*†**Springfield Bridge & Iron Co.**

***Springfield Harrow Co.**

***Young Bros.**

STERLING—***Bauder, Ervin** (Machinist)

Breiding Gas Machine Co. (Gas Machines,
etc.)

***Carolus Mfg. Co.** (Bolt & Nut Cutters)

*†**Charter Gas Engine Co** (Gas Engines)

***Harrison Mfg. Co.** (Corn Planters, etc.)

*†**Lawrence Bros.** (Door Hangers, Hard-
ware, etc.)

***Meister & Cochran** (Radiators, etc.)

***National Mfg. Co.** (Hardware Specialties,
Door Hangers, etc.)

*†**Novelty Iron Works.**

†**Sterling Foundry Co.**

*†**Sterling Mfg. Co.** (Agrl. Impls.)

STREATOR—***Alliance Mfg. Co.** (Agrl.
Impls.)

***G. & D. Mfg. Co.** (Hardware Specialties,
etc.)

***Graves, L. L.**

***Superior Co.** (Machinery, etc.)

SYCAMORE—*†§**Turner Brass Works** (Vend-
ing Machines, Castings of all kinds,
Brass Specialties, etc.)

TAMPICO—†**West, De Witt**

TAYLORVILLE—***Baughman, S. E. & Sons**
(Agrl. Impls.)

***Hollis, N. F.** (Machinist)

TINLEY PARK—***Boldt, George**

TRENTON—***Lentwiler, John H.**

URBANA—*†**C. C. C. & St. Louis R. R. Shops**

*†§**Leavitt Mfg. Co.** (Cattle Dehorners,
Lawn Mowers, etc.)

VANDALIA—*†**Craycroft, Benj.** (Brick
Mach'y & Fdry.)

VAN ORIN—***Zimmerline,** (Pumps, etc.)

VERMILION—***Downing, Thos. D. & Co.**

WATSEKA—*†**Henderson, Wm.**

WAUKEGAN—*†**American Steel & Wire Co.**
(See Chicago, Ill.)

***Chicago Recording Scale Co.** (Piano Mo-
tors, Novelties, etc.)

***Hall Gas Engine Mfg. Co.** (Gas Engines,
etc.)

***Nelson, Nicholas**

*§**Northern Brass Mfg. Co.**

*†§**Thomas Brass & Iron Co.** (Iron & Brass
Founders & Steam Specialties)

*†**Wright, Wm. (Fdy & Machinist)**

WAVERLY—***Rodgers, H. J.** (Machinist)

WEST CHICAGO—*†**American Heater Mfg.**
Co.

***Chicago Crossing Co.** (Crossings, etc.)

WINTHROP HARBOR—*†**Willard, Chas. P. &**
Co. (Marine Engines, etc.)

WOODSTOCK—***Abbott & Hollister**

***Griebel, E. G.** (Machinists)

***Oliver Typewriter Co.** (See Chicago)

XENIA—***Peirce, Jno A.** (Machinist)

INDIANA.

ALEXANDRIA—*†**American Steel Wheel Co.**
(Steel Wheels, etc.)

ANDERSON—***Anderson Bridge & Scraper Co.**
(Road Scrapers, etc.)

***Anderson Computing Scale Co.** (Comput-
ing Scales, etc.)

***Anderson Forging Co.** (Carriage Hdw.,
etc.)

*†**Anderson Foundry & Machine Works** (Tin
& Brick Machinery & Castings)

***Anderson Knife & Bar Co.**

***Anderson Tool Co.**

*†**Buckeye Mfg. Co.** (Engines, etc.)

***Hardware Specialty Mfg. Co.** (Hdw. Spe-
cialties, etc.)

*†§**Hill Machine Co.** (Pumping Machinery)

***Hill Standard Mfg. Co.** (Lathe Dogs, Key-
Seating Machines, Tool Holders, etc.)

***Jenney Electric Mfg. Co.** (Dynamos &
Motors)

***Lambert Gas & Gasoline Engine Co.** (En-
gines & Well Machinery, etc.)

*§**Laville Foundry Co.** (Brass Fdrs)

***National Wrought Iron Annealing Box Co.**

***Rahn, Carpenter Co.** (Machine Tools, etc.)

***Reliable Machine Co.** (Machinists)

†**Remy Electric Co.**

***Reynolds Gas Regulator Co.** (Gas Regu-
lators)

***Westerfield Motor Co.**

ANGOLA—*†**Angola Engine & Foundry Co.**

*†**Cary, Chas.** (Machinist & Founder)

ARGOS—†**Indiana Tank Heater Co.** (Tank
Heaters, etc.)

ATTICA—***Attica Bridge Co.** (Bridge & Steel
Structural Work, etc.)

*†**National Car Coupler Co.** (See Chicago,
Ill.)

AUBURN—***Standard Mfg. Co.** (Cigar Light-
ers, Cheese Cutters, etc.)

***Zimmerman Mfg. Co.** (Windmills, Pumps,
etc.)

AURORA—***Aurora Tool Works** (Milling Ma-
chines, Upright Drill Presses, Etc.)

***Check, M. B.**

***Stamm Machine Works** (Stave Rejoiners &
Woodworking Machinery)

*†**Stedman's Foundry & Machine Works**
(Crushing & Pulverizing Mach'y)

BATESVILLE—***Brummer, Fred** (Machine
Shop)

BEDFORD—*†**Bedford Fdry & Machine Works**

BERNE—***Moser, A. J. & Co. (Inc.)**

BLOOMFIELD—*†**Bloomfield Mfg. Co.**

***Star Jack Co.** (Jacks, etc.)

***Union Jack Co.** (Jacks, etc.)

BLOOMINGTON—*†§**Seward & Co.**

BLUFFTON—*†**Bluffton Mfg. Co.** (Corn
Planters, Washing Machines, etc.)

*†§**Grimes, Geo. W., Co.** (Engines & Fdry,
etc.)

*†§**Red Cross Mfg. Co.** (Windmills, Well
Tools, etc.)

BOONVILLE—*†**Boonville Foundry & Ma-
chine Co.**

BRAZIL—*†**Crawford & McCrimmon Co.**
(Mining Mach'y, Castings, etc.)

***Shaw, Wm. M., Co.** (Machinists)

BREMEN—*†**Holland Radiator Co.** (See Chi-
cago, Ill.)

***May, William** (Machinist)

BUTLER—*†**Butler Co.** (Windmills, Wind En-
gines, etc.)

CAMBRIDGE CITY—*†**Bertsch & Co.** (Pnnch-
ing, Shearing, & Sheet Metal Workers'
Mach'y)

***National Drill Co.** (Cultivators, Grain
Drills, etc.)

†**Schaefer, Casper** (Gas Stoves, etc.)

*†**Scott Stove & Furnace Co.**

CANNELTON—*†**Cannelton Iron Works**

CARTHAGE—***Butler Mfg. Co.**

CICERO—***Arduser, Chris.**

COLUMBIA CITY—***Columbia City Machine**
Works

*†**Lawrence, John F.**

COLUMBUS—***Benfield Bros.**

*†**Caldwell & Drake Iron Works** (Iron
Fdrs. & Bldrs. Iron Work)

***Columbus Machine Works**

***Keller, C. M.** (Coal & Coke Crushers, etc.)

*†§**Reeves & Co.** (Agrl. Impls., Saw Mills,
etc.)

CONNERSVILLE—***Ansted Spring & Axle Co.**
(Carriage & Wagon Axles & Springs, etc.)

*†**Connerville Blower Co.** (Pumps, Rotary
Blowers, etc.)

*Root, P. H. & F. M. Co. (Pumps & Smith Stove Co. Rotary Blowers, etc.)
 *Stant, Geo., Machine Works
 *Triumph Safe & Lock Co.
 *Wainwright, W. W. (Fdry & Machinist)
 CONVERSE—*Fink, A. W.
 CRAWFORDSVILLE—*Birch & Birch (Speed Drills, Match Box Machinery, etc.)
 *Lyle & Reynolds
 DECATUR—*Decatur Furnace Co.
 *Van Camp, Anson (Flour Mill Machinery)
 *Van Camp Foundry & Machine Works (Grey Iron Castings, etc.)
 DELPHI—*Delphi Machine Co.
 DUBLIN—*Morgan, E. S. (Machinist)
 DUNNINGTON—*Metzinger, J. H. (Gas Engines, etc.)
 DYER—*Batterman, Henry C.
 EAST CHICAGO—*Davison Foundry Co. (Light & Heavy Grey Iron Castings, etc., Manhole & Conduit Covers, Catch Basins, etc.)
 *Famous Mfg. Co. (Hay Presses & Gasoline Engines)
 *Goodman Mfg. Co. (Electric & Mining Machinery, etc.), (See Chicago, Ill.)
 *Graver, Wm. Tank Works
 *Green Engineering Co. (See Chicago, Ill.)
 ELKHART—*Angidile Computing Scale Co. (Scales)
 *Automatic Heat Regulator Co. (Heat Regulators, etc.)
 *Buescher Band Instrument Co. (Special Machy., Brass & Aluminum Castings, Dies, etc.)
 *Cable Machine & Tool Co. (Repairs, etc.)
 *Chicago Telephone Supply Co. (Telephone Supplies)
 *Conn, Chas. G., Co. (Band Instruments)
 *Davis Acetylene Co. (Gas Machines, etc.)
 *Elkhart Brass Mfg. Co. (Brass Goods for Fire Departments, Plumbers, etc.)
 *Elkhart Bridge & Iron Co.
 *Foster-Kimball Mach. Co. (Lathes, etc.)
 *Forward Bros.
 *General Mfg. Co. (Bag Printing & Special Mach'y, etc.)
 *Kelley, Edw., Foundry Co. (Iron Fdry.)
 *Kuhlman Elec. Co. (Electrical Specialties)
 *L. S. & M. S. Ry. Shops
 *Northern Indiana Brass Works (C. Schweitzer, Prop.)
 *Noyes Carriage Co. (Agrl Impls & Carriages)
 *Printers Machinery Co. (Printing Mach'y, etc.)
 *Strubler Computing Scale Co. (Computing Scales)
 *Warren, G. B.
 *Waterson, Jordan Machine Co.
 ELWOOD—*Dawson, Chas. (Machinist & Founders)
 *Elwood Iron Works
 *Elwood Lawn Mower Co. (Lawn Mowers)
 EVANSVILLE—*Advance Stove Works (Stoves, etc.)
 *Bernardin Bottle Cap Co. (Bottlers' Machinery)
 *Blount Plow Works (Agrl. Impls., Plows, etc.)
 *Carmody, J. D. (Boilers, Steam Heaters, etc.)
 *Crescent Stove Works (Stoves, etc.)
 *Evansville Brass Works
 *Evansville Metal Bed Co.
 *Evansville Pump Mfg. Co. (Pumps, etc.)
 *Evansville Stove Works (Stoves, Ranges & Hollow Ware)
 *Evansville Tool Works (Axes, Hammers, Picks & Castings, Steel)
 *Grote Mfg. Co. (Iron Fdrs., Bldrs., Iron Work, etc.)
 *Hartig-Becker Plow Co. (Plows, Cultivators, etc.)
 *Healey, Peter (Brass Fdry.)
 *Heilman Machine Works (Engines, Saw Mills, Threshers, etc.)
 *Holtz, Ferd. Co. (Iron Fdry., Saw Mills, etc.)
 *Indiana Stove Works (Stoves, Ranges & Hollow Ware)
 *Mesker, Geo. L. & Co. (Iron Fdrs & Bldrs)
 *Nehring, Wm. H. & Co. (Iron Work)
 *Peerless Tank & Seat Works
 *Smith, John C., Hoe & Tool Co. (Agrl. Impls., etc.)
 *Southern Stove Works (Stoves, Ranges & Hollow Ware)
 *Vulcan Plow Co. (Plows, etc.)
 FERDINAND—*Kitten, Joseph F. (Threshers, etc.)
 FORT BRANCH—*Lintz Bros.
 FORT WAYNE—*Adams-Taylor Machine Co.
 *Bass Foundry & Machine Co. (Corliss Engines, Forgings, Iron & Steel, Castings, Gray Iron, Car Wheels, Etc.)

*BOWSER, S. F. & CO. (Oil Tanks & Pumps, etc.) (See adv. index, end of book)
 *Central Foundry Co. (Window Weights, etc.)
 *Fort Wayne Electric Works (Dynamos, Motors, etc.)
 *Fort Wayne Foundry & Machine Co. (Engines, Saw Mills, etc.)
 *Fort Wayne Smelting & Refining Co.
 *Fort Wayne Windmill Co. (Windmills, etc.)
 *Haberkorn Engine Co. (Gas Engines)
 *Hanna Brackenridge Co. (Machinists)
 *Hattersley, A., & Sons
 *Horton Mfg. Co. (Agrl. Impls., Corn Planters, etc.)
 *Indiana Road Machine Co. (Road Making Machinery, etc.)
 *Kerr-Murray Mfg Co. (Gas Works Apparatus & Mac
 *Knott-Van Arnam Mfg Co. (Plumbers' Supplies, etc.)
 *Kunkle, E. B. & Co. (Brass Fdrs. & Machinists, Safety Valves, etc.)
 *Menefee Foundry Co. (Iron Fdrs.)
 *Stenger, Peter
 *Wayne Oil Tank & Pump Co.
 *Western Gas Construction Co. (Gas Works Apparatus & Mach'y)
 FOWLER—*Nativity-Sleeper Co. (Ignition Magnetos, etc.)
 FRANKFORT—*Eldridge & Smith (Machinists)
 *Model Machine Works (Machinists)
 *Toledo, St. Louis & Western Ry. Shops
 *Wallace Mfg. Co. (Brick & Drain Tile Mach'y)
 FREMONT—*Ewing, James
 GARRETT—*Garrett Machine Works (Gas Engines, etc.)
 GAS CITY—*American Sheet & Tin Plate Co.
 *Indiana Edge Tool Co.
 GENEVA—*Cross, W. D.
 GOSHEN—*American National Machine Works
 *American Register Co.
 *Goshen Motor Works (Gasoline Engines, Launches, etc.)
 *Harwood, L. A. (Brass Foundry)
 *Kelly Foundry & Machine Co. (Boiler Fronts, Grate Bars, etc.)
 *National Dairy Machine Co. (Dairy Machinery, etc.)
 *Thomas-Albright Co. (Hydraulic Presses)
 GREENCASTLE—*Cole Bros. Lightning Rod
 GREENFIELD—*Abbott, J. R. Co.
 GREENSBURG—*Hilliard, W.
 *Luchte & Bowman Co.
 GRIFFITH—*Potter, B. B. (Hardware Specialties, etc.)
 HAGERSTOWN—*Light Inspection Car Co (Light Inspection Cars, Gas Engines, etc.)
 HAMMOND—*Champlon Potato Machinery Co. (Potato Mach'y)
 *North Star Iron Works
 *Simplex Railway Appliance Co. (Car Bolsters, Roller Side Bearings, etc.)
 *Stewart Machinery Mfg. Co.
 HARTFORD CITY—*Bowen, W. J. & A. L.
 *McClintock & Gamble
 HUNTINGTON—*Hensley Trolley Co. (Trolley Wheels, etc.)
 *Newcomb, C. E.
 INDIANA HARBOR—*American Steel Foundries (Inc.) (See Chicago, Ill.)
 *Inland Steel Co. (See Chicago, Ill.)
 INDIANAPOLIS—*American Brass & Aluminum Co. (Brass Castings, etc.)
 *American Car & Foundry Co. (See St. Louis, Mo.)
 *American Foundry Co., Warman av & Vandalla R. R.
 *Atkins, E. C. & Co. (Saws, Tools & Mach'y), 402 S Illinois
 *Atlas Engine Works (Engines & Machy.)
 *Brown-Ketcham Iron Works (Castings & Structural Steel Work)
 *Capital Gas Engine Co. (Gas Engines, etc.)
 *Capital Machine Works, 502 S Penn
 *Castle Ice Machine Co. (Ice Machinery), 19 W South
 *Central Machine Works (Machinists & Portable Boring Bars, etc.), 240 W Henry
 *Central States Bridge Co. (Steel Bridges, etc.)
 *Chandler & Taylor Co. (Engines & Saw Mill Mach'y, etc.), 740 W Wash av
 *Climax Machy Co. (Farm & Dairy Machines)
 *Crescent Machine & Tool Co. (Special Machinery), 309 W Maryland
 *Dean Bros. Steam Pump Works (Pumping & Condensing Machy)
 *Enterprise Foundry & Fence Co. (Grey Iron Castings)
 *Fairbanks-Morse Electrical Mfg. Co.

*Frazer Stove Co. (Stoves, Ranges, etc.)
 *Geiger & Peters Ornamental Iron Works (Archl. Iron Works, etc.), 321 S Alabama
 *Green, Thos. L. & Co. (Bakers' Machy), Lemcke bldg
 *Hall, Albert B. (Laboratory Machy)
 *Hensley, Jas. W. (Clay Working Machy)
 *Hetherington & Berner Co. (Asphalt Machy & Foundry), 19 W South
 *Home Stove Co. (Stoves & Ranges)
 *Howard, Michael E. (Machinist), 374 S Senate av
 *Indiana Brass & Iron Bed Co.
 *Indiana Fan Co. (Blowers, Exhausters, Water Motors, Fans, etc.)
 *Indiana Mfg. Co. (Straw Stackers)
 *Indianapolis Aluminum & Brass Co.
 *Indianapolis Excelsior Machinery Co. (Excelsior Machinery, etc.)
 *Indianapolis Foundry Co. (Light Grey Iron Castings, 131 Harding
 *Indianapolis Lock Co. (Post Office Equipments, etc.)
 *Indianapolis Stove Co.
 *Indianapolis Tool & Mfg. Co. (Special Machy., Tools & Dies), 518 S Capitol av
 *Insley Iron Works (Iron Fdrs)
 *Inter-State Car Co. (Contractors, Cars & Repair Work)
 *Kennedy, Patrick W., 1119 Beecher
 *Keyless Lock Co. (Post Office Equipments, etc.)
 *Knight & Jillson Co. (Plumbing Specialties, etc.)
 *Langsenkamp-Wheeler Brass Works (Brass Founders & Finishers)
 *Laycock, T. B., Mfg. Co. (Iron & Brass Bedsteads, etc.)
 *Link Belt Co. (Ewart Works) (Main office, Chicago, Ill.)
 *McNamara-Koster Fdry. Co. (Grey Iron Castings), 408 S Penn
 *National Boiler & Sheet Iron Works (Engines, Boilers, etc.)
 *National Malleable Castings Co. (See Cleveland, O.)
 *Noelke-Richards Iron Works (Builders Iron Work & Castings), 180 E. Palmer
 *Nordyke & Marmon Co. (Flour Mill Machy, etc.)
 *Over, Ewald (Grey Iron Castings), 426 S Penn
 *Peerless Foundry Co. (Castings & Stove Repairs), 710 E Maryland
 *Pioneer Brass Works (Brass, Bronze & Aluminum Founders, Finishers & Plumbers' Goods), 418 S Penn
 *Potter Mfg. Co. (Trench Machinery, etc.), 3505 E Wash.
 *Potts, C. & A. & Co., (Clay Machy.), 816 W Washington av
 *Rexroth, Louis (Machinist), 144 S Delaware
 *Roch, Tobias (Arch'l Iron Work, etc.), 225 E. Pearl
 *Rockwood Mfg Co. (Founders & Machinists), 1801 English av
 *Russell Wind Stacker Co. (Straw Stackers), 1001 Shelby
 *Shirley Radiator & Foundry Co. (Radiators), Indiana Trust bldg
 *Simon, Louis P. (Machinist), 371 S Meridian
 *Sinker-Davis Co. (Engines & Saw Mill Mach'y), 230 S Missouri
 *Spacke, F. W., Machine Co. (Air Compressors, etc.)
 *Speed Changing Pulley Co.
 *Standard Machine & Electric Co. (General Machinists), 33 W Chesapeake
 *Union Embossing Machine Co. (Wood Embossing Machines), 750 E Washington
 JASPER—*Jasper Machine Works
 JEFFERSONVILLE—*American Car & Foundry Co. (See St. Louis, Mo.)
 *American Vending Machine Co.
 *Anderson, Geo. S., & Co. (Machine Work, etc.)
 *Bauer Machine Co.
 *Indiana Mfg. Co. (Hollow Ware, etc.)
 KENDALLVILLE—*Baker, J. R. & Sons Co. (Specialties)
 *Flint & Walling Mfg. Co. (Engines, Pumps, etc.)
 *Raber & Lang Mfg. Co. (Cement Tile Machinery, etc.)
 KNIGHTSTOWN—*Albertson, E. J.
 *Columbia Electric Co. (Automobiles, Telephones, etc.)
 *Parrish, Alford Fence & Machine Co. (Fence Machines, etc.)
 KOKOMO—*Apperson, Elmer
 *Byrne, Kingston & Co. (Inc.) (Brass Foundry)
 *Chandler, B. H.
 *Ford & Donnelly (Wire Mill Machinery, etc.)

†Globe Stove & Range Co. (Steel Ranges, etc.)
 *§Kokomo Brass Works (etc.)
 *Kokomo Fence Machine Co. (Fence Machinery)
 *Rockford Bit Co. (Bits)
 *Walton & Macke (Mfrs. Nail Machines)
LAFAYETTE—*†Barbee Wire & Iron Works (Bldrs Iron Work & Castings, etc.)
 *Biggs, B. F., Pump Co. (Pumps, etc.)
 *§Duncan Electric Mfg. Co. (Electric Meters)
 *Lafayette Fence & Machine Co. (Fence Machines)
 *†McGrath, R. H.
 *Ross Gear & Tool Co. (Tools, Auto Gears, etc.)
 *†§Schwab Safe & Lock Co.
 *Sterling Electric Co. (Telephone Supplies, etc.)
 *†Wallace Machine & Foundry Co. (Castings, Manhole Covers, etc.)
LAPEL—*Wright, George (Gas Regulators, Pumps, etc.)
LA PORTE—*Gangwer & Roberts
 *La Porte Gas Meter (Gas Meters)
 †Niles & Scott Co. (Wheels, etc.)
 *†Rumely, M. Co. (Engines, Threshers, Stackers, etc.)
LAWRENCEBURG—*†§Cook, A. D. (Steam Pumps, etc.)
LEAVENWORTH—*Jenner, John H.
LEBANON—*†Lebanon Foundry Co.
LIBERTY—*†Rude Bros. Mfg. Co. (Grain & Corn Drills, Cultivators, etc.)
LIGONIER—*Haney Gasoline Engine Co.
LOGANSPOUT—*American Steel Dredge Works (Dredging Machy, etc.)
 *McAllister, E. A. (Jobbing, etc.)
 *Oberchain & Boyer (Boiler Cleaners, Fire Extinguishers, etc.)
 *†§Western Motor Co. (Gas Motors, etc.)
MADISON—*†§Johnson Foundry & Machine Shops
 *†Madison Machine Co. (Machinists)
 *†Madison Stove Co. (Stoves)
MARION—*American Drill Co. (Grain Drills, etc.)
 *Custer Electric Mfg. Co. (etc.)
 *Gillespie, L. W. & Co. (Dynamos, Motors Gas & Gasoline Engines, etc.)
 *†Hoosier Stove Co.
 *†§Hulley, Jos.
 *Indiana Brass & Bronze Co.
 †Marion Grey Iron Foundry Co. (Grey Iron Castings, etc.)
 *†Marion Iron & Brass Bed Co.
 *†§Marion Machine Fdry & Supply Co.
 *†§Marion Malleable Iron Works
 †Marion Stove Co. (Stoves)
 *National Sweeper Co.
 *Western Drop Forge Co.
MATTHEWS—†Armor Steel & Foundry Co.
MELTZER—*Meltzer, F. (See Chicago, Ill.)
MICHIGAN CITY—*Eichstaldt, Roman (Machinist)
 *†§Haskell & Barker Car Co. (Car Bldrs., Brass, Steel, Grey & Malleable Iron Castings)
 *Michigan City Iron Works (Machinery)
 *Western Launch & Engine Works (Inc.) (Gasoline Engines, Launches, etc.)
MISHAWAKA—*Clark, Geo. C., Metal Last Co.
 *†§Dodge Mfg. Co. (Power Transmitting Machinery)
 *Landgraf Machine Co. (Machinists)
 *Mishawaka Machine Co.
 *†Mishawaka Plow Co. (Plows, etc.)
 *†Perkins Windmill Co.
MONROEVILLE—*Salway Bros. Co.
MONTEZUMA—*Montezuma Machine Works
MONTPELIER—*†§Montpellier Cup & Metal Works
 *†National Steel Casting Co. (Steel Castings, Car Couplers, etc.)
MOUNT VERNON—*†Keck, Gonnerman Co. (Iron Fdrs. Threshers, etc.)
MUNCIE—*†§American Lawn Mower Co. (Lawn Mowers & Castings)
 *Broderick & Quinian Mfg. Co. (Boilers, etc.)
 *Carpenter, Albert (Engines, Boilers, etc.)
 *Crozier, Cary (Gas Pumps & Engines, etc.)
 *Dyer Bros.
 *†Eagle Foundry Co.
 *Hanika, C., & Son Co. (Structural & Ornamental Iron Work)
 *Indiana Steel & Wire Co.
 *Kitselman Bros. (Inc.) (Fence Machines, etc.)
 *†Machinists' Foundry Co.
 *Moon, W. H.
 *†Muncie Fdy. & Machine Co. (Gas House Machy, Castings, etc.)
 *Muncie Gas Engine & Supply Co. (Gas Engines & Oil & Gas Well Supplies)
 *†Murphy, Patrick (Castings)
 *Warner Electric Co. (Electric Specialties)
 *†Warner Gear Co. (Gears, etc.)

*†Whitely Malleable Castings Co. (Steel & Malleable Iron Castings & Car Couplers, etc.)
 †Whiteley Steel Co. (Steel Castings)
 *Wide Range, Drill Chuck & Tool Co. (Drill Chucks & Tools)
NAPOLEON—*Schleuter, Stephen
NAPPANEE—*Nappanee Iron Wks. (Punches, Shears, etc.)
NEW ALBANY—*†Anchor Stove & Range Co.
 *†Gardner, S. J. (Stoves, etc.)
 †Gohmann Bros. & Kahler Co. (Stoves, etc.)
 *Goetz-Coleman Mfg. Co. (Gasoline Engines, etc.)
 *†Hegewald, Chas. Co.
 *†New Albany Mfg. Co. (Stone Working Machy)
 *Todd Mfg. Co. (Machinery, etc.)
NEW CASTLE—*†Allen, Jonathan S.
 *Indiana Rolling Mill Co. (Machine Shop for Use of the Company)
 *†New Castle Foundry Co. (Iron Fdrs., Grey Iron Castings)
 *New Castle Machine Works (Machinists)
 *Pan-American Bridge Co. (Bridge & Structural Steel Work, etc.)
 *Safety Shredder Co. (Corn Shredders, etc.)
 *Shopp, W. A. & Co. (Machinists)
NEW MOUNT PLEASANT—*Steed Bros.
NEW HARMONY—*Trethway, W. O.
NOBLESVILLE—*Hare, J. H.
NORTH MANCHESTER—*†Manchester Mfg. Co. (Boiler Cleaners)
 *†§Miller, Jesse E. (Pumps, etc.)
NORTH VERNON—*†§Hicks, Harry (Machinist & Fdry.)
OAKLAND CITY—*†Dewitt-McIntyre Gear & Bending Works
OSGOOD—*†§King, H. P., Electrical & Machine Works
PENDLETON—*§Motsinger Device Mfg. Co. (Gas & Gasoline Motor Sparks, etc.)
PERRYSVILLE—†Cummingore, H. S. & Son
PERU—*McAllister, Thos. H. (Stoves, etc.)
 *Mallman Addograph Mfg. Co.
 *†Model Gas Engine Works (Engines, Gas & Gasoline, etc.)
 *†Parkhurst Mfg. Co. (Elevators, Lathes, etc.)
 *Peru Electric Mfg. Co. (Elec. Specialties)
 *Spring Grain Drill Mfg. Co. (Grain Drills)
PETERSBURG—*†Meyer Machine Co. (etc.)
PLYMOUTH—*†Clizbe Bros. Mfg. Co. (Tool Grinders, etc.)
 *Keller & Jeffers (Machinists)
 *†Monarch Iron Works (Inc.)
PORTLAND—*†Portland Foundry & Mach. Co.
PRINCETON—*†Maddocks & Herschell (Flue Welding Machinery)
RED KEY—*Fiers & Kehrer (Pumps, etc.)
 *†Runyen, B.
RICHMOND—*†American Seeding Machine Co. (Hoosier Branch) (See Springfield, O.)
 *†Border Bolt & Nut Lock Co.
 *§Chandler & Art Brass Works
 *Dille & McGuire Mfg. Co. (Lawn Mowers)
 *Draver Bros. (Special Mach'y, etc.)
 *Elliott & Reid Co. (Fence Machines, etc.)
 *F & N Lawn Mower Co. (Lawn Mowers)
 *†§Gaar, Scott & Co. (Threshing Mach'y, Traction Engines & Saw Mills, etc.)
 *§Gartside, W. N. (Fdry. Supplies, etc.)
 *Henley, M. C. (Roller Skates, Boring Mach'y, etc.)
 *Jones, J. E.
 *Kiser, Daniel (Machinist)
 *Marlatt, Samuel (Machinist)
 *Quaker City Machine Co. (Jno. A. Evans, Propt.) (Ventilating Apparatus, etc.)
 *†Richmond Indiana Mfg. Co. (Iron & Brass Bedsteads, Carriage Lamps, etc.)
 *†Richmond Machine Works (Engines, Saw Mills, etc.)
 *Richmond Safety Gate Co. (Safety Gates, etc.)
 *†§Robinson & Co. (Engines, Threshers, Beling Presses, Saw Mills, etc.)
 *§Standard Pattern & Mfg. Co.
 *§Starr, W. C., & Son
 *†§Wayne Works (Agrl. Impls.)
RISING SUN—*†Clare's, Wm. Sons (Plows, etc.)
ROCHESTER—*†§Ross Foundry & Machine Co.
ROCKPORT—*†Pfeifer, John C. (Fdry & Mach)
RUSHVILLE—*Francis, Chas. E., & Bros.
 *Long & Case Machine Co.
 *†Madden & Co. (Iron Founders, Tile & Brick Machinery)
SALEM—*Bellows Bros.
SARATOGA—*†§Harshman, John F., & Sons
SEYMOUR—*§Buhner, R. F.
SHELBYVILLE—†Eagle Range Co.
 *†Shelbyville Fdry. & Machine Works
SHIRLEY—*†Shirley Radiator & Foundry Co. (Radiators, etc.)

SOUTH BEND—*§Bednarowicz, Teofil
 *†Birdsell Mfg. Co. (Clover Hullers, Straw Stackers, Wagons, etc.)
 *†Bowsher, N. P. Co. (Fdrs & Machinists)
 *Clover Leaf Machine Co. (Concrete Mixers, etc.)
 *†Coquilard Wagon Works (Heavy Wagons, etc.)
 *Haberle, John B. (Bolt Cutting Machines, etc.)
 *Ideal Concrete Machy. Co. (Concrete Block Machy)
 *Iwan Bros. (Ditching Machines, etc.)
 *Knoblock-Heideman Mfg. Co. (Electrical Machy & Specialties)
 †Malleable Steel Range Mfg. Co. (Ranges, etc.)
 *Maurer, Wm., & Co. (Steam Specialties, etc.)
 *†Meyer Foundry & Mfg. Co. (Street & Building Castings, etc.)
 *†Oliver Chilled Plow Works (Plows, etc.)
 *†Schock Mach'y Co. (Power Drills, etc.)
 *†Sibley Machine Tool Co. (Mach. Tools, Power Drills, etc.)
 *Soens, Christ
 *†South Bend Chilled Plow Co. (Plows, etc.)
 *†South Bend Foundry Co. (Grey Iron Castings, Street & Building Castings, etc.)
 *†South Bend Machine Tool Co.
 *†South Bend Pulley Co. (Cast Iron Pulleys)
 *†South Bend Toy Mfg. Co. (Toys, etc.)
 *South Bend Watch Co. (Watches, etc.)
 *†§Studebaker Bros. Mfg. Co. (Wagons, Carts, Automobiles, etc.)
 *Westervelt, Herbert E. (Paper Bag Machy)
SUMMITVILLE—*Custer Mfg. Co. (Punches, Shears, etc.)
SYRACUSE—*†Advance Radiator Co. (Cast Iron Radiators)
TELL CITY—*Sanitary Laundry Machy Co.
 *†§Tell City Fdry. & Machine Works
TERRE HAUTE—*†American Car & Foundry
 *Buettner & Shelbourne Machine Co. (Repair Parts for Coal Mining Machines, etc.)
 †Cooper, B. H. Co. (See St. Louis, Mo.)
 †Eagle Iron Works Co.
 †Gartland Foundry Co. (Grey Iron Castings, etc.)
 *†Government Standard Scales Works (Scales, etc.)
 *Hazledine, Edw. T., Co. (Machinist)
 *Kester Electric Co. (Electric Motors)
 *O'Neil & Son (Machinists)
 *Pettyjohn Co. (Artificial Stone Machines)
 *†§Prox, Frank, Co. (Coal Mining Machy, †Springer-Whitaker Foundry Co. etc.)
 *Standard Wheel Co. (Bicycles)
 *Terre Haute Bronze & Brass Co.
 †Terre Haute Malleable & Mfg. Co.
 *†§United States Scale Co.
 †Vandalla R. R. Brass Fdry.
 †Wallis Stoker & Mfg. Co. (Mechanical Stokers, etc.)
UNION CITY—*Backstay Machine & Leather Co. (Machinists)
 *Union City Wheel Co.
UPLAND—*Wise, R. S.
URBANA—*Speicher, D. E. (Seed Sowers, etc.)
VALPARAISO—*Crescent Co. (Electric Specialties)
 *†Patrick, J. H. & Son
VAN BUREN—*Boss Pulley Machine Co.
 *Mills Machine Co.
VEEDERSBURG—*Walter Bros.
VERNON—*Reed & Rogers Mfg. Co. (Harrows & Rakes, etc.)
VINCENNES—*†§CENTRAL FOUNDRY Co. (See New York.) (See adv. index, end of book)
 *†Hartman Mfg. Co. (Agl. Impls., Cultivators, etc.)
 *Mahoney R. R. Ditching Machine Co. (R. R. Ditching Machines)
 *National Rolling Mill Co.
 *†Star Shovel & Range Co. (Stove Mfrs.)
 *†§Vincennes Foundry & Machine Co.
WABASH—*†Barcus, George, & Co.
 *Rettig, Frank J.
 *Standard Cash Register Co.
WAKARUSA—*†Gall, James E.
WARSAW—*†Maish Mfg. Co. (Mill Machy, etc.)
 *†§Wernitz, O. W., Fdry. & Machine Wks.
WASHINGTON—†Cole, W. E. (Fdry.)
 *†§Denver, Frank
WINAMAC—*Winamac Bridge Co. (Structural Steel Work, etc.)
WINCHESTER—*Fitzmaurice, Wm. (Machinist)
 *Knecht & Thomas Pump Co. (Pumps, etc.)
WOLCOTTVILLE—*†§Morel, J. L., & Co.

IOWA.

ADEL—*Vaughn Mfg. Co. (Printing Presses, etc.)
 AKRON—*Hilliker, C. M. & Son
 ALTA—*Bensene, Ell, & Son
 AMES—*Loughran Machine Co. (Agricultural Implements)

*Watkins Mfg. Co. (Wire Machy, etc.)
 ANAMOSA—*Griffith, Jno. C.
 ATLANTIC—*Hunter, S. G., Iron Works
 AURELIA—*Mummert, Jonas S.
 AVOCA—*Jacobs Bros.
 BELLE PLAINE—*Palmer Bros.
 BELLEVUE—*Brandt, J. M. (Gasoline Engines)
 BOONE—*Sample, J. F.
 *Weinhart & Knight
 BRITT—*Interstate Drainage & Investment Co.

*National Mfg. Co. (Slot Machines)
 BURLINGTON—*Mohland & Co. (Grubbing Machines)

*Murray Iron Works Co. (Corliss Engines, Ice & Refrigerating Machy., etc.)
 *Swedish Sleigh Bell Mfg. Co.
 *Van Beek, G. L. (Gasoline Engines, etc.)
 CARROLL—*Helder Mfg. Co. (Equalizers, etc.)

CEDAR FALLS—*Monarch Self-Feeder Co. (Straw Stackers, etc.)
 *Rice & Dayton Mfg. Co. (Auto Vulcanizers)

*Wagner Mfg. Co. (Hdw. Specialties)
 CEDAR RAPIDS—*Carmody, J. T. (Engines, Castings & Structural Work)
 *Cedar Rapids Foundry & Mach. Co.
 *Cedar Rapids Mfg. Co. (Nail Pullers, etc.)

*Cedar Rapids Pump Co. (Iron Pumps, etc.)
 *Chandler Pump Co. (Iron Pumps, etc.)
 *Cedar Rapids Seale & Machine Co.

*Davidson, F. F. (Trip Hammers, etc.)
 *Dearborn Brass Co. (Brass Founders' & Finishers' Plumbing Goods, etc.)
 *Fawcett, C. E. (Machinists)
 *Hawkeye Mfg. Co. (Power Hammers, etc.)
 *Iowa Radiator Co. (Radiators, etc.)
 *Iowa Windmill & Pump Co.

*Long, Mfg. Co. (Machy.)
 *Porter & Erwin (Laundry Machy.)
 *Rabus & Toeller (Machinists)
 *Schmidt, Geo. R. (Machinist)
 *Stary, F. (Iron Fdry.)
 *Tokheim Mfg. Co. (Oil Pumps, etc.)

CENTREVILLE—*Goss, Jos.
 CHARITON—*Johnson Bros.
 CHARLES CITY—*Daley, M. H. (Disc Harrows)

*Hart-Parr Co. (Traction, Stationary & Portable Gasoline Engines)
 *Moss, W. E.
 CHEROKEE—*Caswell Bros. (Belt Guides, etc.)
 *Cherokee Mfg. Co.

CLARINDA—*Lisle Mfg. Co. (Well Drilling)
 CLARION—*Snyder & Henry Mach'y
 CLINTON—*Clinton Bridge & Iron Works
 *Clinton Novelty Iron Works
 *Fish Bros. Mfg. Co. (Wagons, etc.)
 *Iowa Machine Works (Inc.)
 *Lamb Boat & Engine Co. (Engines, etc.)

COUNCIL BLUFFS—*Bradley, David, & Co. (Inc.), (Agrl. Impls.)
 *Children's, E., Sons Mfg. Co. (Agrl. Impls.)

*Clark Implement Co. (Agrl. Impls.)
 *Kimball Bros. Co. (Elevator Scales, Elevators, etc.)
 *New Specialty Mfg. Co. (Scales, Gasoline Lamps, etc.)
 *Peru Plow & Implement Co. (Agrl. Impls., Plows, etc.)

*Pioneer Implement Co. (Agrl. Impls.)
 *Sprague Foundry & Mfg. Co.
 *Walker Mfg. Co. (Agrl. Impls., etc.)
 CRESTON—*Arnold, E. D. (Machinist)

DAVENPORT—*Bettendorf Axle Co. (Steel Cars & Steel Car Trucks)
 *Bettendorf Metal Wheel Co. (Metal Wheels & Castings, etc.)
 *Davenport Foundry & Machine Co. (Iron & Brass Castings & Heavy Machy.)

*DAVENPORT LOCOMOTIVE WORKS (Light Locomotives, etc.) (See adv. index, end of book)
 *Davenport Motor Co. (Marine Motors, etc.)
 *East Davenport Machine Shop.
 *Frank, H. J., Foundry Co.

*Killing, E., Moulding Machine Co. (Moulding Machines, Grey Iron & Brass Castings)
 *Newmann, H. W., Machine Co.
 *Red Jacket Mfg. Co. (Pumps & Grey Iron Castings)

*Roeske & Stndt (Machine & Novelty Works)

*Wahle Fdry. & Machine Works
 *White Lily Washer Co. (Gasoline Engines, etc.)

DECORAH—*Johnson, Peter & Son (Machinists)
 *Swenson Valve Co.

DES MOINES—*American Iron Works
 *Beckman Bros. (Pumps, Windmills, Scales, etc.)
 *Centaur Wire & Iron Works (Inc.)
 *Crescent Furnace & Foundry Co.
 *Dempster Mfg. Co. (Pumps, Windmills, etc.)

*Des Moines Bridge & Iron Co. (Bridges & Structural Work, etc.)
 *Des Moines Fdry. Co. (Soil Pipe & Fittings)

*Des Moines Mfg. & Supply Co. (Brick, Flour Mill, Grain Elevator, Mining, Stucco & Saw Mill Machinery)

*Des Moines Stove Repair Co.
 *Des Moines Street Ry. Co.
 *Dodd & Struthers (Static Electric Machines, X-Ray Apparatus, etc.)
 *Eagle Iron Works (Mining & Brick Machinery, etc.)

*Eldridge, Geo. G. (Machinist)
 *Green Fdry. & Furnace Works (Hot Air Furnaces, etc.)
 *Jewett Typewriter Co. (Typewriters)
 *Keith Furnace Co. (Furnaces & Heaters)
 *Monarch Machine Co. (Gas & Electric Engines, etc.)

*Spieth & Son (Flows, etc.)
 *Standard Safe & Lock Co.
 *Turner-Roland Co. (Structural Steel, etc.)
 *Turner & Brownie (Machinists & Frs.)
 *White Bronze Monument Co.
 *Wood Bros. Steel Self-Feeder Co. (Cultivators, etc.)

DEXTER—*Excelsior Thresher Tooth Co. (Thresher Teeth, etc.)

DUBUQUE—*Adams Co. (Machine Tools, Founders, etc.)
 *Cooper, A. A. Wagon & Buggy Co. (Plows, Cultivators, etc.)
 *Dubuque Boat & Boiler Works
 *Gordon, C. C., Co.
 *Key City Iron Works
 *Loetseher-Ryan Mfg. Co. (Hdw. Specialties)

*McDonald, A. Y. & Morrison Mfg. Co. (Pumps, Brass Goods & Iron & Brass Founders)
 *Novelty Iron Works (G. E. Davis, Prop.) (Trip Hammers, Shingle Machy., etc.)
 *Pitts-Thompson Foundry Co.
 *Ragatz & Son (Machinists)
 *Scheppele Machine Works (Machinists)
 *Schmidt Mfg. Co. (Casket Hdw.)
 *Shore, E. L.
 *Smedley Steam Pump Co. (Steam Pumps, etc.)
 *Vogenthaler, E. J. Co. (Casting & Bldrs.' Iron Work, etc.)

ELDORA—*Brown Bros.
 ELKADER—*Allen Bros.
 *Wagner, Louis E.

FAIRFIELD—*Louden Machinery Co. (Haying Tools, etc.)
 *Iowa Malleable Iron Co.
 *Pence, W. H.

FENTON—*Ridder Bros.
 FORT DODGE—*Iowa Foundry & Mfg. Co.
 FORT MADISON—*Fort Madison Plow Co. (Agricultural Implements)
 *Iowa Farming Tool Co. (Haying Tools, etc.)
 *Reliable Foundry & Machine Co. (Machinery Castings, etc.)

GRINNELL—*Grinnell Mfg. Co. (Power Hammers)
 GRISWOLD—*Cocklin, L. A.
 GUTTENBERG—*Fuerste, Chas.
 HARLAN—*Deen Loom Co.
 *Nelson Gas Engine & Auto Co.

HAWARDEN—*Wheland & Rummel
 INDEPENDENCE—*Iowa Mfg. Co. (Treadmills, etc.)
 INWOOD—*Hansen, Joe.
 IOWA CITY—*Kelly, O. S., Western Mfg. Co. (Threshers, Feed Mills, etc.)
 *Schmidt, G. W. (Machinist)
 *Tuloss, I. E. (Foundry)

IOWA FALLS—*Gade Bros. Mfg. Co. (Gasoline Engines)
 IRETON—*Stewart, Daniel R.

JANESVILLE—*Myers, W. W. (Gasoline Engines, etc.)
 KEOKUK—*Amer. Stove & Range Co. (Stoves)
 *Decker Mfg. Co. (Hog Rings, Curry Combs, etc.)
 *Kollmyer & Talbot (Machinists & Fdrs.)
 *McElroy Iron Works Co.
 *Scott Mfg. Co. (Brick Presses, Castings, etc.)

*Vissaer & Brown (Acetylene Gas Machines)
 *Weber-Kirch Mfg. Co. (Hdw. Specialties & Cream Separators)

LAKE MILLS—*Givling, J. B.
 LANSING—*Schultz, Herman C.
 LAURENS—*Kreul Bros.

LEMARS—*Pech, Gus, Foundry & Mfg. Co. (Well Drilling Machinery, etc.)
 LONE TREE—*Zimmerman Steel Co. (Stump Pullers, Feed Mills & Wagon Scales)

LYONS—*Lyons Mfg. Co. (Hdw. Specialties, etc.)
 *Pelton, T. G., & Son (Gasoline Engines)
 *Sewell, W. A. & Co. (Furnaces, etc.)
 *U. S. Steel Lock Co.

MARSHALLTOWN—*Dunham, C. A., Co. (Steam Traps)
 *Fisher Governor Co. (Pump Governors, etc.)
 *Lennox Furnace Co. (Furnaces)
 *Lennox Machine Co. (Gas & Water Tapping Machines & Gasoline Engines, etc.)
 *Marshalltown Furnace Co. (Foundry)
 *Shorthill, A. E., Co. (Iron Fdrs. & Bldrs. Iron Work, etc.)

MASON CITY—*Beecher, A. H. (Machinist)
 *Vulean Iron Works (Tenon & Boring Machines, Power Hammers, etc.)

MECHANICSVILLE—*Davisson, O. J.
 MILTON—*Milton Mfg. Co. (Harrows, etc.)
 MONONK—*Weigand, C. H.
 MONTICELLO—*Page, Frank W.
 MONTOUR—*Downs, W. A.

MUSCATINE—*Barry Mfg. Co. (Button Machinery)
 *Giesler & Co. (Malleable Iron Wagon Brakes, etc.)
 *Heitz Machine Co. (Button Mach'y, etc.)
 *Miller, J. W. (Button Machinery)
 *Niver Iron Works Co. (Grey Iron Castings, Building Fronts, Machine Castings, etc.)
 *Stohr & Freund
 *Vance & Baker Mfg. Co. (Machy)

MYSTIC—*Ford, Geo.
 NEVADA—*Kelly, H. C.
 NEWTON—*Parson's Band Cutter & Self-Feeder Co. (Gasoline Engines & Self-Feeders, etc.)
 *Parsons Hawkeye Mfg. Co. (Couplers, etc.)
 *Skow Bros.

NORA SPRINGS—*Hof & Ladwig
 NORTHWOOD—*Everson & Nelson
 ODEBOLT—*Reynolds & Kistler
 OELWEIN—*Oelwein Foundry Co.
 OSKALOOSA—*Ideal Heating Co. (Heating Apparatus, etc.)
 *Interstate Mfg. Co. (Furnaces, etc.)
 *Iowa Mfg. Co. (Heating Apparatus & Plumbers' Supplies)
 *Martin, J. D., & Co. (Drinking Fountains, etc.)
 *Seever's Mfg. Co. (Heaters, etc.)

OTTUMWA—*American Mining Tool Co. (Mining Tools, etc.)
 *Dain Mfg. Co. (Hay Loader, Haying Tools, etc.)
 *Hardscog Mfg. Co. (Coal Drills, etc.)
 *Hardscog Wonder Drill Co. (Rock Drills, etc.)
 *Johnston & Sharp Mfg. Co. (Ball Bearing Sash Pulleys & Hdw. Specialties, etc.)
 *McCarroll Mfg. Co. (Stoves, etc.)
 *Nicholls Mfg. Co. (Carpenters' Squares, etc.)
 *Ottumwa Box Car Loader Co. (Car Loaders)
 *Ottumwa Iron Works (Mining Machinery)

PELLA—*Buerkens Mfg. Co. (Wagons, etc.)
 *Pella Stacker Co. (Hay Stackers, etc.)
 PRAIRIE CITY—*Dowden Mfg. Co. (Potato Harvesting Machy)
 *Jenks & Son (Gas Generators, etc.)

RED OAK—*Bunker, Thos.
 *Kerrihard Co. (Power Hammers, etc.)
 *Red Oak Bridge & Iron Works

ROCKFORD—*Ayers, C. E.
 ROCK RAPIDS—*Anchor Concrete Stone Co. (Cement Block Machy)

SAC CITY—*Martin Co.
 SCRANTON—*Quinn Wire & Iron Works
 SHENANDOAH—*Swanson Mfg. Co. (Cultivators, Agrl Impls., etc.)
 *Smith, Benjamin

SIOUX CITY—*Central Machine Shops
 *Herman & Savage (Machinists)
 *Iowa Foundry Co.
 *Nuessle, C. C.
 *Sioux City Fdry. & Mfg. Co.
 *Weiler & Randolph (Jacks, etc.)

SPENCER—*Maurer, F. X. Co. (Hay Presses)
 STOCKPORT—*Iowa Ditching Machine Co.
 UNDERWOOD—*Valley Machine Co.

VAN HORN—*Wicks, J. A.
WASHINGTON—*McClellan, T. H.
WATERLOO—*Armstrong-Quinn Mfg. Co.
(Well Drilling Machy., Gasoline Engines, etc.)
*Boyer Grinder & Furnace Works (Inc.)
*Cascadian Mfg. Co.
*Cement Tile Machinery Co. (Cement Tile Mach'y, etc.)
*Chamberlain Machine Works (Gasoline Engines, etc.)
*Galloway, Wm. Co. (Agri. Impls., etc.)
*Gibson, David, Foundry Co.
*Goodman, W. A.
*Headford Bros. & Hitchins Foundry Co.
*Iowa Brass Foundry
*Iowa Dairy Separator Co. (Separators)
*Iowa Gasoline Engine Co. (Gasoline Engines)
*Litchfield Mfg. Co. (Farm Machinery)
*Swem Gas Machine Co. (Gasoline Gas Plants)
*Swift Mfg. Co. (Feed Grinders, etc.)
*Waterloo Brass Foundry
*Waterloo Cement Machinery Co. (Cement Machy., etc.)
*Waterloo Gasoline Engine Co. (Gasoline Engines, etc.)
*Waterloo Furnace & Feed Mill Co. (Feed Mills, etc.)
*Waterloo Register Co. (Hot Air Registers)
*Zeising & Son
WAUKON—*Johnson, John S., & Son
WEBSTER CITY—*Brown Spring Skate Co. (Ice Skates)
*Closz & Howard Mfg. Co. (Grain Separators, etc.)
WHAT CHEER—*What Cheer Tool Co.

KANSAS.

ABILENE—*Parker, C. W. (Novelties, etc.)
*Tolliver, L. D.
ATCHISON—*Seaton, John, Foundry & Machine Co.
*Thayer Foundry Co.
*U. S. Windmill Mfg. Co. (Chas. A. Wright, Prop.)
BELLE PLAINE—*Owens, J. A.
BUNKER HILL—*Shaffer, C. (Agri. Impls., etc.)
BURLINGTON—*Electric Appliance Co.
BUSHTON—*Shonyo, B. C. & Co.
CHEROKEE—*Webster, Frank L.
CHERRYVALE—*Cherryvale Iron Works
*Kansas Cultivator Shovel Co.
*United Iron Works Co. (See Springfield, Mo.)
CLAY CENTER—*Clay Center Windmill & Foundry Co.
*Watts, I. R.
COFFEYVILLE—*Coffeyville Foundry & Machine Co.
*Coffeyville Implement & Mfg. Co. (Agri. Impls.)
DODGE CITY—*Zimmerman Hdw. & Mfg. Co. (Hdw. & Impls.)
EDWARDSVILLE—*Pearson Mfg. Co. (Potato Sorters)
EMPORIA—*Jones, Jos. C. Sons
ENTERPRISE—*Barnard Machinery Co. (Flour Mill Machy.)
*Ehrtam, J. P. & Sons Mfg. Co. (Flouring Mills, Cement & Plaster Mill Machy., etc.)
FORT SCOTT—*Anderson, R. K.
*Eagle Foundry & Machine Co. (Feed Mills)
*Eiler, Charles
*Kite Bros.
FREDONIA—*Belt, P. P.
GALENA—*Galena Foundry & Machine Co.
*Kennedy, T.
*Rauch, Jas. B.
*Stone & Pinson.
GIRARD—*Hitz, C., Foundry Co.
HAYS—*Goodall, J. W.
HIAWATHA—*Cash & Zimmerman
HUTCHINSON—*Livengood, J. K.
*Nelson Bros.
INDEPENDENCE—*Hovard Supply Co.
*Independence Iron Works
*United Iron Works Co. (See Springfield, Mo.)
IOLA—*United Iron Works Co. (See Springfield, Mo.)
KANSAS CITY—*Armourdale Foundry Co.
*Chadborn & Bailey (Fans, Models, Dies, etc.)
*Badger Gas and Gasoline Engine Co. (Gas & Gasoline Engines)
*Griffin Wheel Co. (See Chicago, Ill.)
*Home Embroidery Machine Co. (Embroidery Machines)
*Kansas City Ry. Foundry
*Prior Brass Mfg. Co. (Plumbers' Brass Goods, etc.)

*Riverside Iron Works Co. (Engines, Machinery & Castings)
*Strait, H. N. Mfg. Co. (Scales, Hay Presses etc.) (See Kansas City, Mo.)
*West Side Foundry Co. (Iron Fdrs.)
KINGMAN—*Osgood, Geo. A.
LAWRENCE—*Lawrence Iron Works
LEAVENWORTH—*Fisher Machine Works Co.
*Great Western Mfg. Co. (Grain Elevator & Flour Mill Machy., etc.)
*Great Western Stove Co. (Stoves)
*Hesse, W. G. & Son Mfg. Co. (Wagons, Hdw., etc.)
*Missouri Valley Bridge & Iron Co.
*Tholen Bros. (Machinists & Fdrs.)
MANHATTAN—*Blue Valley Mfg. Co. (Agri. Impls.)
NASHVILLE—*Demars, John
NEWTON—*Miller Grain Drill Mfg. Co. (Grain Drills, etc.)
*Nellins, G. M.
*Prairie Queen Mfg. Co. (Grain Separators, etc.)
NORWICH—*Dobson, J. V.
OBERLIN—*Bradley, Perry
OSAWATOMIE—*Osawatomie Iron Works Co.
OSKALOOSA—*U. S. Bridle Bit Co. (Bridle Bits, etc.)
OTTAWA—*Ottawa Foundry Co.
PAOLA—*Central Radiator & Foundry Co.
PARSONS—*M. K. & T. Ry. Shops
*Smith, Millard F.
PITTSBURG—*K. C. P. & G. Ry. Shops
*United Iron Works Co. (Springfield, Mo.)
PLEASANTON—*Pleasanton Foundry & Machine Co.
ROSEDALE—*Kansas City Steel & Iron Works Co. (Structural Iron Work, etc.)
SABETHA—*Hay, H. P.
ST. PAUL—*Sheffer, Frank
SALINA—*Kuons, Wesley (Agricultural Implements)
SEDAN—*Sedan Machine Shop Co.
SENECA—*Butler, Wm. M. & Son
*Emory Mfg. Co. (Agri. Impls.)
STAFFORD—*Milton Garvin Steam Plow Co. (Steam Plows, etc.)
TOPEKA—*Capital Iron Works.
*Currie Windmill Co.
*Hewitt Mfg. Co. (of Chicago, Ill.)
*Jensen Mfg. Co. (Creamery Machy., etc.)
*Jones, W. C.
*Midland Foundry
*Nelson Mfg. Co.
*Perine, A. B. (Plows, etc.)
*Sempres, John
*Topeka Bridge & Iron Co.
*Topeka Foundry & Machine Co.
*Western Fdry. & Machine Works (R. L. Coffran, Prop.)
WAKEENY—*Spena, John
WICHITA—*Atchison, Topeka & Santa Fe Ry. Shops
*Brooks Tire Machine Co. (Tire Setters, etc.)
*Brown Mfg. Co. (Hdw., Novelties, etc.)
*Farles, R. P.
*Moore Bros. (Iron Fdrs. & Stoves)
*Peerless Machine & Supply Co.
*Sharon, W. J.
*Walterschied Machy & Supply Co. (Pumps, Windmills, etc.)
*Western Iron & Foundry Co.
*Wichita Mfg. Co. (Pumps, etc.)
WILSON—*Wolfe, W. S.
WOODSTON—*McNutt, Ira.

KENTUCKY.

ASHLAND—*Ashland Foundry & Machine Works
*Ashland Iron & Mining Co. (Grey Iron Castings & Machine Shop)
*Ashland Steel Co.
*Norton Iron Works
AUGUSTA—*Augusta Stove & Range Foundry. (See E. H. Huenefeld, Cincinnati, O.)
*Margaraff Mfg. Co. (Machy.)
BOWLING GREEN—*Bowling Green Machine Co.
*Reemer & Worrick Machine Co.
BURNSIDE—*Kirsch, Edward.
CANE VALLEY—*Dudgeon Co. (Stoves, Ovens, etc.)
CENTRAL CITY—*Central City Foundry & Machine Co.
CLOVERPORT—*Cloverport Foundry & Machine Co.
CORYDON—*Corydon Machine Co.
COVINGTON—*Anthe Machine Works
*Covington Archl. Iron Works
*Germania Supply & Foundry Co.
*Hollingsworth, W. T. (Machine Tools, etc.)
*Houston, Stanwood & Gamble Co. (Steam Engines)

*Insurance Stove, Range & Foundry Co. (All Kinds of Light & Heavy Machine Castings)
*Sebastian Lathe Co. (Machine Tools)
*Seihorst, A., Jr.
*Star Foundry Co. (Stoves and General)
*Stewart Iron Works Co. (Iron Fdrs.)
*Stewart Jall Works Co.
EARLINGTON—*Earlington Iron Works
EDDYVILLE—*Kentucky Foundry Co.
FRANKLIN—*Enterprise Machine Co.
FULTON—*Webb, C. E.
HAWESVILLE—*Kentucky Plow Fender Mfg. Co.
HENDERSON—*Deivan, Geo. H. (Machinist)
HICKMAN—*Buck, G. C. (Machinist)
*Smith, Chas. F.
HOPKINSVILLE—*Forbes Mfg. Co. (Agri. Impls., Hdw., etc.)
LEXINGTON—*American Metallic Packing Co. (Metallic Packings, Brass Castings & Genl. Machinists)
*Lexington Engine & Saw Mill Works
*Timmons, Jos. (Machinist)
LOUISVILLE—*American Brass Foundry
*AMERICAN MACHINE CO. (Elevators, etc.) (See adv. index, end of book)
*Anchor Stove & Range Co.
*Avery, B. F. & Sons (Agri. Impls., Plows, etc.)
*Balke & Co. Iron Works
*Bridgeford & Co. (Stoves)
*Brinly-Hardy Co. (Agri. Impls., Plows, etc.)
*CALDWELL, W. E. CO. (Machinery & Fdrs.) (See adv. index, end of book)
*Central Mfg. Co.
*Clark, Jas., Jr., Electric Co. (Machine Tools, Dynamos, Motors)
*Cook, C. Lee
*Cowles, John H., & Co.
*Dow Wire & Iron Works Co.
*Drummond Mfg. Co.
*Fischer-Leaf Co.
*Graf-Webb Iron Mfg. Co. (Stoves)
*Grainger & Co.
*Kentucky Gear & Machine Co.
*Kentucky Stove Co. (Stoves)
*Kentucky Wagon Mfg. Co.
*Kobel-Kappa Machine Co.
*Kochenrath, C. A.
*L. & N. Ry. Shops
*Louisville Car Wheel & Railway Supply Co. (Car Wheels, etc.)
*Louisville Drying Machinery Co. (Drying Machinery)
*Moran Flexible Steam Joint Co.
*National Foundry & Machine Co. (Steam Pumps, etc.)
*O K Stove & Range Co. (Stoves)
*Peerless Mfg. Co. (Iron & Brass Fdrs., Grates & Iron & Brass Goods)
*Pyne, W. T. Mill & Supply Co.
*Reilly, J. J. Mfg. Co. (Pumping Machinery)
*Snead Archl. Iron Works (Iron Fdrs. & Bldrs. Iron Work)
*Standard Sanitary Mfg. Co. (See Pittsburg, Pa.)
*Steger, E. A. Mfg. Co. (Brass Fdrs. & Finishers & Platers)
*Stiglitz, Chas. G. & Sons (Iron Fdrs.)
*U. S. Cast Iron Pipe & Foundry Co. (See New York City)
*Vogt, Henry Machine Co. (Ice & Refrigerating Machy., etc.)
LUDLOW—*Carran, R. B., & Sons Co.
MADISONVILLE—*Holland Ross Machinery Co. (Machinists & Fdrs.)
MAYFIELD—*Mayfield Foundry Co.
MAYSVILLE—*Hail, Jas. H. Plow Co. (Plows, etc.)
*Maysville Fdry. & Engineering Co.
McHENRY—*McHenry Mfg. & Machy. Co.
NEWPORT—*Crawley Book Machy. Co. (Bookbinders' Machy., etc.)
*Deam Gas Engine & Fdry. Co. (Gas Engines, etc.)
*Newport Fdry. Co.
*Roettinger, Wm. & Son (Tools)
OLMSTEAD—*Wyatt Furnace Mfg. Co.
OWENSBORO—*Guenther-Wright Machine
*Kentucky Electrical Co. (Dynamos & Motors)
*Owensboro Hydrant Co. (Hydrants, etc.)
*Owensboro Shovel & Tool Co.
*Southern Foundry Co. (Castings & Bldrs., Iron Work, etc.)
PADUCAH—*Jackson Fdy. & Machine Co.
*Lack Malleable Iron Co.
*Shelton Bros. (Iron Fdry. & Machinists)
SHELBYVILLE—*Wayne & Crapster (Machinists)
WINCHESTER—*Conway, J. P.
*Eagle Casting Co.
*Hagans, Chas.
*Hagans Gas Engines & Mfg. Co. (Gas Engines, etc.)

LOUISIANA.

ABBEVILLE—*Ritter, Jos. F.
 ALEXANDRIA—*†Alexandria Iron Works
 *†Enterprise Iron Works Co.
 ALGIERS—*†U. S. Government Shops
 AMITE—*†Gullett Gin Co. (Cotton Gins)
 BATON ROUGE—*Hogue, S. D. Co. (Ltd.)
 *†Pearce, A. C.
 BERWICK—*†Berwick Iron Works
 *†Watkins, Chas. & Bro. Co.
 CROWLEY—*†Acadia Iron Works (Ltd.)
 *†Crowley Iron Machinery Co.
 DONALDSONVILLE—*†Allen, F. H.
 FRANKLIN—†Le Blanc, C. J.
 HAMMOND—*Way, A. L.
 HOUMA—*Caillouet & Bergeron
 JEANERETTE—*†Moresi, Antoine Co.
 JENNINGS—*†Oil City Iron Works (Ltd.)
 LAKE CHARLES—*†Cobb Car Co. (Ltd.)
 *Michael, James
 *†Reiser Machine Shop (Ltd.), (Fdry. & Machinist)
 LE COMPTE—*Wiley, E. W., Jr.
 LEESVILLE—†Vernon Iron Works (Inc.)
 MANSFIELD—*†De Soto Foundry & Machine Co.
 MONROE—*†Sanders, J. G. (Iron & Brass Fdy & Machinists)
 MORGAN CITY—*†Johnston & Hamilton.
 *Thornton, J. A.
 NEW IBERIA—*Bernard, A. M.
 *†Simon, Geo.
 NEW ORLEANS—*†Bancroft, Ross & Sinclair Co. (Ltd.) (Saw Mill Machy., etc.)
 *†Bedell Structural Steel & Fdry Co. (Structural Steel Work, etc.)
 *Boland Mchy. & Mfg. Co. (Ltd.) (Rice & Carcaud & Storey. Sugar Machinery)
 *†Connell, J. D. Iron Works
 *Crescent City Machine & Mfg. Co.
 *Elmer, Chas., & Sons
 *Hinderer's Iron Works (Arch'l Iron, etc.)
 *†Johnson Iron Works (Ltd.)
 *Killeen's Foundry & Iron Works
 *Koietke, F. H. Brass & Mfg. Co. (Brass Fdrs & Finishers)
 *Kron, Geo. F. & Bro. (Scales)
 *†McArdle, Peter H. (Mach'y., Pulleys)
 *McDonald, Jno. S. etc.)
 *Manufacturers' Machinery Co.
 *†Moore's Brass Foundry (Brass Specialties, etc.)
 *†Murphy, Jno. H. (Sugar Machinery & Castings)
 *†Orleans Metal Bed Co. (Iron Bedsteads, etc.)
 *†Payne & Joubert
 *†Schwartz Foundry Co. (Ltd.) (Sugar Mill)
 *†Southern Pacific Ry. Shops Machinery)
 *†Stern Fdry. & Mach' Co.
 *Sulpice, L. F.
 *Sutton, Jas. P.
 *Sutton, Jos., Jr.
 *Sutton & McLean
 *Sutton's Fdry. & Structural Steel Works
 *Swoop, Julian M.
 *†Whitney Iron Works Co. (Fdrs & Machinists, Sugar Machy, etc.)
 PLAQUEMINE—*†Cypress City Foundry & *†Nadler, Henry Machine Works
 RAYNE—*Stamm, Scheele & Co.
 RUSTON—*†Ruston Fdry. & Machine Shop (Ltd.)
 SHREVEPORT—*†Henderson, W. K., Iron Works & Supply Co. (Saw Mill Machy Castings, etc.)
 *McKittrick Engineering Co.
 *†Means, J. L. Machinery Co. (Cotton Plantation Machy., etc.)
 *†White, Benj. S.
 THIBODAUX—*†Jeffries, Wm.
 *†Keefe, Lawrence
 WASHINGTON—*McNicol, Leroy
 WELSH—*Armstrong Machine & Well Works
 *Van Ness, M. B. Co. (Inc.)
 WINNFIELD—*†Winnfield Iron Works & Supply Co.

MAINE.

AUBURN—*†Androscooggin Foundry Co.
 *Crawshaw, J. M.
 *Ray, Wm. A.
 *Reynolds & Oliver
 AUGUSTA—*†Field Bros. (Gasoline Engines, etc.)
 Gay, Geo. E. (Machinist & Engineer)
 *Skehan, W. J., & Co.
 BANGOR—*†Noyes & Nutter Mfg Co (Stoves
 *†Penobscot Machinery Co. & Castings)
 *Purlington, Andrew B.
 *†Union Iron Works (Iron & Brass Fdrs. & Paper & Pulp Mill & Wood Working.
 *†Wood & Bishop Co. (Stoves, etc.) etc.)

BATH—*†Bath Automobile & Gas Engine Co. (Automobiles, Gas Engines, etc.)
 *†Bath Iron Works (Ship Builders & Marine Engines & Brass Fdrs.)
 *†Dean-Allan Mfg. Co. (Brass Fdrs, etc.)
 *†Hyde Windlass Co. (Windlasses, etc.)
 *†Jackson, J. S., Jr., Son Roller Bushings, Automatic Lathe Work, etc.)
 *†Torrey Roller Bushing Works (Roller Bearing Bushings, Iron & Brass Cstgs.)
 *†Watson, Frye & Co. (Inc.) (Pulp Mill Castings, Plug Cock & Valves)
 BELFAST—*†Duplex Roller Bushing Co.
 BETHEL—*Herrick Bros.
 BIDDEFORD—†McDermott, Thos. J.
 *†Saco & Pettice Machine Shops (Cotton Machinery.) (See Newton, Upper Falls, Mass.)
 BOOTHBAY HARBOR—*Thurston, Rowe Co.
 BRIDGTON—*†Bridgton Machine & Lumber Co.
 *Halkett, J. H. (Machinist)
 BRUNSWICK—*Brunswick Mfg. Co. (Fdrules, etc.)
 *Whitney R S (Machst)
 BUCKFIELD—*Damon, Arlington (Machinist)
 CALAIS—*Elliott Machine Co.
 *†McCullough & Tait
 CAMDEN—*†Camden Anchor-Rockland Machine Co. (Anchors & Gasoline Engines)
 *†Knowlton Bros. (Brass & Iron Fdrs. & Machinists)
 CARIBOU—*†Gatchell, J. S. & Son
 CORINNA—*†Burrill, H. L.
 DEXTER—*†Fay & Scott (Machine Tools & Iron & Brass Fdrs.)
 EAST BOOTHBAY—*†Booth Bay Gas Engine Co. (Gas Engines, etc.)
 *†Rice, Frank L. Motor Co. (Motors, etc.)
 EAST WATERFORD—*Haskell, J. B.
 ELLSWORTH—*†Ellsworth Fdry. & Machine Works
 FARMINGTON—*Spinney, Herbert I. (Machinist)
 GARDINER—*†Newell, J. F. & Co. (Journal Bearings & Brasses, etc.)
 *Scribner, Harvey (Est. of)
 HALLOWELL—*†Fuller's, Geo. Sons, (Brass & Iron Fdrs. & Machinists, Engines, etc.)
 *North Wayne Tool Co. (Scythes, Axes & Tools, etc.)
 HARRISON—*†Ricker, T. H. & Sons (Wood Working Mchnry.)
 HOLLIS CENTER—*Colclough, C. A. (Mchst)
 HOULTON—*Cates, H. M.
 *†Houlton Fdry. & Machine Co. (Fdrs & Machinists)
 KENNEBUNK—*†Varnay, Geo. (Agrl. Impls.)
 LEWISTON—*King, Arthur B. & Castings)
 *†Maxwell, Chas. P., Foundry Co.
 *Rand & Harvey (Machists)
 *Willard Mfg. Co. (Hdwe Specialties, etc.)
 LIVERMORE FALLS—*Allen, Albert (Machst)
 *†Record Fdry. & Machine Co.
 MACHIAS—*†Sargent, Stone & Co. (Machinists)
 MECHANIC FALLS—*†Penney, J. W. & Sons Co. (Steam Engines & Iron & Brass Fdrs, etc.)
 MILBRIDGE—*†Foster, A. V.
 MOUNTAIN—*McDonald, Wm & Son (Machists)
 NORTH BERWICK—*†Hussey Plow Co. (Agl. Impls., etc.)
 NORWAY—*Murdoch, Frank W.
 OAKLAND—*Bates, A. B. & Co.
 *Dunn Edge Tool Co. (Axes, etc.)
 *Emerson-Stevens Mfg. Co. (Axes, Scythes, etc.)
 *King Axe Co. (Axes, etc.)
 OLD TOWN—*†Chapman, T. M. Sons Co. (Wood Working Machy, etc.)
 ORONO—*Mansfield, Edw. & Co. (Cantdogs, etc.)
 PORTLAND—*Adde & Co.
 *†Babbitt, Chas. E. (Brass & Iron Fdrs. & All Kinds of Copper Work)
 *Chenery, Henry L. & Co.
 *Conant, R. O. Co. (Canning Machy, etc.)
 *Dunn, M. E. (Machst)
 *†Fletcher & Crowell Co. (Iron Fdrs & Bldrs Iron Work)
 *Knight Bros. (Brass Fdrs., etc.)
 *Lang-Cobb Mfg. Co. (Canning Specialties, Dies & General Mchnsts)
 *Laughlin, Thos. Co. (Marine Hdw., Brass & Bronze Castings)
 *Maine Electric Co. (Dynamios, Motors, Engines, etc.)
 *†Megquier & Jones Co. (Bldrs Iron Work & Castings)
 *Mills & Gilmour (Machinists)
 *Orr & Jennings (Machists)
 *†Portland Co. (Steam Engines, Paper & Pulp Machy & Iron & Brass Fdrs, etc.)
 *†Portland Stove Foundry Co. (Stoves, etc.)

*Schumacher, Gustav W.
 *Smith & Langmaid
 *Southworth Bros. (Printers' Machy)
 *Stickney, Henry R. (Can Filling Machines, etc.)
 *Westcott, Reuben (Radiators, etc.)
 *Winslow, Daniel & Son (Machists)
 ROCKLAND—*†Camden Anchor Rockland Machine Co. (See Camden)
 *Livingston Mfg. Co. (Stone Working Tools)
 *Shuman, I. J.
 RUMFORD FALLS—*†Record Foundry & Machine Co. (See Livermore Falls)
 SKOWHEGAN—*†Hackett & Witham
 SOUTH PARIS—†Cummings Mfg. Co.
 SOUTH PORTLAND STATION—*†Marine Hdw. & Equipment Co. (Marine Hdw., etc.)
 SOUTH UNION—†Jones, Stephen W.
 WATERVILLE—*Lombard, A. O. (Mchst)
 *Noyes Stove Co. (Stoves)
 *†Webber & Philbrick (Wood Barking Machy & Iron Fdrs)
 WESTBROOK—*†Foster & Brown Co. (Mchists.)
 *Jordan, Rufus K. (Iron Fdry.)
 *Knowlton Jno J (Mchst)
 *Warren, S. D., & Co. (Office, Boston, Mass.)
 WEST GARLAND—*Gordon H L (Mchst)
 YORK—*Young, Chas.

MARYLAND.

BALTIMORE—*Adt Jno B (Brewers & Malsters, Tobacco Mchy, etc.), 332 N Holliday
 *Armstrong & Parker, 361 North
 *Arundel Iron Works, 757 W. Pratt
 *†Baltimore Car-Wheel Co. (Electric Car Trucks & Wheels, Payson & Patterson av.)
 *†Baltimore Foundry Co. (Machine, Structural & Ornamental Castings)
 *†Baltimore Malleable Iron & Steel Castings Co. (Grey Iron & Steel Castings, etc.) Charles & Wells
 *†Baltimore & Ohio R. R. Shops
 *†Bartlett, Hayward & Co. (Sugar Machy., Iron Fdrs., etc.)
 *Basshor, Thos. C., Co., 28 Light
 *†Bates, Jas., Sons (Elevator Builders, Castings, etc.), Pratt & President
 *†Bibb, B. C. Stove Co. (Stoves, etc.), 109 Light
 *Boehm, Henry E. & Co., 207 North
 *Brown, F. S. & G. L. Machine Co. (Presses, Dies & Sheet Metal Tools), 20 E Fort av
 *Burt Machine Co. (Canning Machy.), 327 N Holliday
 *Carr Stuart R., & Co. (Iron Fdrs.), Essex & Montford av
 *CENTRAL FOUNDRY CO. (See New York.) (See adv. index, end of book)
 *Chesapeake Iron Works (Builders' Iron Work & Castings), Bayard & Severn
 *Clark, Jas. Co., ft. Webster
 *Codd, E. J., Co. (Engines, Boilers, Pumps & Iron & Brass Castings, etc.), 700-708 S Caroline
 *Cottingham, Harrison (Canning Mach'y.)
 *Crook-Kries & Co., 231 W Saratoga
 *Crown Cork & Seal Co.
 *Cuyler & Mohler (R. R. Machinists), 611 William
 *†Detrick & Harvey Machine Co. (Machine Tools, etc.), 508 E Preston
 *†De Ved & Sons' Sash Weight Co. (Builders' Castings, 813 S Howard
 *†Dietrich Bros. (Jail Guards, Bridge Rods, Plates, etc.), 344 North
 *Dix Mfg Co (Door Hangers & Hdw Specialties), 1021 Gullford av
 *Donohue, Jno. T. & Co. (Diaphragm Pumps, etc.), 1808 Thames
 *ELLICOTT MACHINE CO. (Dredging Machinery, Grey Iron Castings, etc.), Bush & Severn, Baltimore, Md. (See adv. index, end of book)
 *Fadum, Fred'k (Machinist), 408 W. German
 *Farrell, Edw. P. (Brass Fdry. & Finishers), 1412 Philpot
 *Faunt Le Roy Elevator Co. (Elevators, etc.), 8th nr. Lombard
 *Fluskey, Jno. B., cor Dugan's Wharf & Wood
 *†Flynn & Emrich Co. (Iron Fdrs. & Machinists), cor Holliday & Saratoga
 *†Foster Bros. Mfg. Co. (Iron Beds, etc.)
 *Frank, E. T. & Son (Ice & Refrigerating Machy., etc.), 642 W Pratt
 *Friedenwald Bros. (Special Machy., etc.), 216 N Holliday
 *Friez, Julien P. (Elec. & Meteorological Insts., etc.), 1230 E Balto
 *†Gibson & Kirk Co. (Brass Fdrs., etc.), 517 E Montgomery

†Greenmount Iron & Mfg. Co. (Stoves, Ranges, Machine Castings, etc.), 883 Greenmount av
 *Hollingsworth, Wm. (Gas Engines, etc.) 227 W North
 *Hutcheson, Wm. (Brass Finisher & Machinist), 212 N Holliday
 *†Hutchinson Bros. (Stoves, Furnaces, etc.), 116 N Howard
 †Jones Hollow Ware Co., Forrest & Madison
 *Jones, Jno. T. Sons, 211 E Falls av
 *Kavanaugh, Joseph M.
 *Kemp, C. M. Mfg. Co. (Gas Machines, Cellar Drainers, etc.), 401 E Oliver
 †Krug, Gustav & Son (Bldrs. Iron Work), 415 W Saratoga
 *King, J. S. Machine Co., 213 North
 †Lacey, Jas. J. & Co. (Propeller Wheels, Grey Iron Castings, etc.), 1401 Block
 *†Larabee, H. C. & Co. (Chemical Eggs, Pyrites Furnaces, etc.), 723 S Caroline
 *Lazenby, F. A., & Co., Bush & Wicomico
 *†Levering Bros. (Sash Weights), 230 Hughes av
 *Liberty Brass Works (Brass Castings, etc.), 305 W. Lombard
 *Loane, Hiltz Engineering Co. (Machy., etc.), 306 Hanover
 *McClenahan, H. J. & Co., 613 Water
 *†McShane Bell Foundry Co. (Bell Founders, etc.)
 *Mackin, F. M., & Co., 509 N Spring
 *MacKue, Hector C. (Electrical Storage Batteries, etc.), 316 St. Paul
 *Marine Ry. Machine & Boiler Works (Engines, Steam Boilers, etc.), 1301 Philpot
 *Marquette, Jno. N. (Fertilizer, Mach'y, etc.), 507 S Eden
 *Maryland Brass & Metal Works (Brass Fdrs. & Finishers), 1529 Guilford
 *†Maryland Car Wheel Works (Car Wheels, etc.), Curtis Bay
 *Maryland Meter Co. (Gas Meters, etc.)
 †Meiser, H. & Son (Iron Fdrs., Bldrs. Iron Work, etc.), 210 Clay
 *Miller, L. H. Safe & Iron Wks., 103 S Hanover
 *Mitchell, Jno. R., Co. (Pineapple Machinery, etc.)
 *Monarch Engineering & Mfg. Co., 5 W Lombard
 *Montford Machine Casting Co., Montford av, nr Chase
 *Murrill & Kelzer Co. (Light Machy., Pattern & Model Work, Special Machy., etc.), 200 N Holliday
 *National Compositype Co. (Type Setting Machines) Claggett & Allen
 *National Supply Co. (Bolts, Nuts, Rivets, Casters, Brass Fdrs. & Finishers, etc.) 5 W Lombard
 *Owens, Allein W., & Co., 2 W. Preston
 *Page Engineering Co. (Marine Gas Engines), 119 E York
 *†Poole Engineering & Machine Co. (Power Transmitting, Rolling Mill Mach'y, etc.)
 *†Poole, E. H. Co., 1513 Orleans
 *Rau, Henry, Jr., 327 N Calvert
 *Renneburg, Edw., & Son (Oyster & Fruit Packing Machines), 1917 Aliceanna
 *Richardson, Edro, Brass Co. (Castings, etc.), 316 N Holliday
 *Rittenhouse Bros., 312 N Holliday
 *Robins, A. K., & Co. (Stoves & Canning Mach'y.)
 *†Sackett, A. J. (Fertilizer Machy., etc.), 5th av & E 1st
 †Sexton, S. B. Stove & Mfg. Co. (Stoves, etc.), 7 S Gay
 *Shaffer Mfg. Co. (Machinists & Pattern Makers), 408 N Calvert
 *†Sheppard, Isaac A. & Co. (Furnaces, Stoves, etc.), Eastern av & Chester (Sec Phila., Pa.)
 *Sinclair-Scott Co. (Canning & Agl. Machy. & Hdw. Specialties), Wells & Patapsco
 *†Skinner Ship Building & Dry Dock Co. (Ship Builders, etc.)
 *Slaysman & Co. (Can Makers' Machy.), 125 E. Falls av
 *Sloan, Frank B. & Co. (Sash, Pulleys, & Cabinet Hardware, etc.), Phoenix Bldg
 *†South Baltimore Steel Car & Foundry Co. (Castings of Every Description, Forgings, Freight & Contractors' Cars & Equipments & Iron & Brass Founders & Machinists), Continental bldg
 *Spedden Ship Bldg. Co. (Ship Builders) Boston & Chesapeake
 *Starr, B. F. Co. (Grinding Mills, etc.) 455 North
 *Stebbins, Wallace & Sons, Charles & Lomb'd

*Stevenson & Co. (Can Makers' Mach'y), 601 S. Caroline
 *†Symington, T. H. Co. (Railway Specialties, etc.), Works, Corning, N. Y.
 *Towson, W. W. & Co., 1028 Hillen
 *†Walther, G. W., & Co.
 *†Weiskittie, A. & Sons (Stoves, Ranges, Porcelain Enamelled Bath Tubs, Iron & Brass Founders), 2000 Aliceanna
 *White & Middleton Gas Engine Co. (Gas Engines), Charles & Winder
 *Zastrow, Geo. W. (Pineapple Machinery, etc.)
 *Zies, Chas., & Sons (Eng. & Machinists), 318 S Fremont av
 CAMBRIDGE—*Shackelford, Edgar
 CANTON—*Canton Iron & Steel Co. (Office Baltimore)
 CUMBERLAND—*Accurate Machinery & Mfg. Co. (Type Machy., etc.)
 †Farrin, John A.
 *†McKalg, Merwin
 †Maryland Foundry
 *†Potomac Engineering Co.
 EASTON—*Peerless Machine Co. (G. W. Wingard, Prop.)
 *†Withgott, W. H., & Co.
 ELKTON—*McQuilkin, Geo. (Machinist.)
 *McQuilkin, Geo. & Son (Electrical Appliances, etc.)
 †Powers, Jas. F. Fdry. Co. (Iron Fdry.)
 ELLICOTT CITY—*Patapsco Elec. & Mfg. Co.
 EMMITSBURG—*†Fraley, W. A. & Bros. (Iron Fdry.)
 FREDERICK—*Abbott, Jno. H. & Son (Machinists)
 *†Frederick Iron Works
 †Zimmerman, G. F. S. & Co. (Shutter Fasteners, etc.)
 GALENA—*Hooper, F. X. (Wood Printing Machines)
 †Hyland, Wm. A. (Wood Printing Machines)
 GLENARM—*Hooper, Francis X. (Machines)
 HAGERSTOWN—*†Foltz, H. C. (Iron Fdry. & Machinist)
 *†Hagerstown Foundry Co.
 *†Hull, D. F. & Son (Agl Impls)
 HANCOCK—*†Hancock Fdry. & Machine
 LAUREL—*†Fairall Foundry Co. Works
 LOCK—*Seavolt, J. W.
 MANCHESTER—*†Shower, Wm. H.
 MOUNT SAVAGE—*†Union Foundry Co.
 ORANGEVILLE—*†Weiskittie, A., & Sons Co. (See Baltimore)
 PERRYVILLE—*†Armstrong Stove & Mfg. Co. (Stoves, etc.)
 FORT DEPOSIT—†Bibb, B. C. Stove Co. (See Baltimore, Md.)
 SALISBURY—*†Grier, F. A. & Son.
 *†Grier, R. D.
 SOUTH BALTIMORE—(See Baltimore)
 SPARROWS POINT—*†Maryland Steel Co.
 WESTERN PORT—*†White, P. F. (Iron Fdry.)
 WESTMINSTER—*Atlantic Machine Works
 *†Haller, L. A. (Machinist & Fdr)
 *†Register Co. (Brass Goods for Steam & Water, etc.)

MASSACHUSETTS.

ABINGTON—*American Worsted Machy. Co. (Worsted Machy., etc.)
 *Lamson, E. F. (Machinery, etc.)
 AMESBURY—*Amesbury Brass & Foundry Co. (Brass, Manganese Bronze, etc., Castings)
 *Atlantic Co. (Marine Motors, etc.)
 *Pettingill Machine Co.
 *Wilson, Peter A. (Files, etc.)
 ARLINGTON—*Birch, A. (Textile Machy, etc.)
 *Safford & Co. (Hinges) etc.)
 ASHBURNHAM—*Almond, T. R. Mfg Co. Drill Chucks Countershafts, etc.)
 ASHLAND—*Lombard Governor Co. (Water Wheel Governors, etc.)
 Ray, Albert H. (Machinist)
 ASSONET—*Davis, N. R. & Sons (Fire Arms, etc.)
 ATHOL—*†Athol Machine Co. (Machinists' Fine Tools, etc.)
 *†Athol Pump Co. (Pumps & Brass Castings)
 *Gerry, Geo. & Son (Textile Machy.)
 *STARRETT, L. S. CO. (Machinists' Fine Tools, etc.)
 *Union Twist Drill Co. (Gear & Milling Cutters, etc.)
 ATTLEBORO—*†Howard & Bullough American Machine Co. (See Boston)
 *Mossberg, Frank, Co. (Dies, Special Machy. & Tools)
 *Wilmarth, W. D., & Co. (Hardware, etc.)
 ATTLEBORO FALLS—*Barnett, W.

AYER—*Chandler Machine Co.
 *Chandler Planer Co. (Machine Tools)
 BARRE—*Allen, Chas. G. Co. (Drill Presses, Self-Opening, Dies, etc.)
 BEVERLY—*Baker, John S. (Brake Handles & Smith, Ira A. Wheels, etc.)
 *†United Shoe Machinery Co. (See Boston)
 *Cape Ann Machine Co. (Special Mach'y, Naumkeag Buffing Machine Assn. etc.)
 BOSTON—*American Postal Machines Co. (Stamp Cancelling), 140 Pearl
 *American Soda Fountain Co., 278 Congress
 *†American Steam Gauge & Valve Mfrs. (Gauges, Valves, etc.), 208 Camden
 *†American Tool & Machine Co. (Centrifugals, Brass Workers' Lathes, Brass & Iron Castings, etc.), 109 Beach
 *†Ames Plow Co. (Agl. Impls. & Machines), Faneuil Hall Market
 *Ames Shovel & Tool Co., Ames Bldg.
 *Anderson, Albert & J. M. Mfg. Co. (Elec. Ry. Light & Power Mach'y & Brass Fdrs., etc.), 289 A
 *Angell, E. E., & Co. (Check Perforators), 370 Atlantic av
 *Arbetter Felling Machine Co., 242 Dover
 *Armstrong, F. A. W. & Co. (Machine Screws, etc.), 364 Atlantic av
 *Ashton Valve Co. (Steam, Gas & Water Specialties & Brass Fdrs), 271 Franklin
 *†Atlantic Works (Ship Engine Builders), 72 Border, E B
 *Barr, Jno. A. & Co. (Machinists), 91 Wareham
 *Barrett, Jas. Mfg. Co. (Plumbers' Iron & Brass Specialties), 211 Franklin
 *Barrett Bros. (Special Mach'y), 43 Haverhill
 *Bartlett, Edwin E. (Bench Planers, Arbor Presses, etc.), 326 A
 *Bassill, Louis (Brass Finisher), 160 Portland
 *Bay State Brass Foundry, 155 A
 *Beaudry & Co. (Power Hammers, etc.), 141 Milk
 *Bertelsen & Petersen Engineering Co. (Ship Machinists), 140 Border, E B
 *Blount & Lovell (Gear Cutting Machinery), 100 High
 *Boston Bolt Co. (Bolts, Clamps, Jack Screws, etc.), 40 Farnsworth
 *Boston Brass Andron Co. (Brass Fdrs. & Finishers), 104 Utica
 *Boston Brass Co. (Plumbers' Brass Work, Finishers & Platers), 36 Oliver
 *Boston Bridge Works (Inc.) (Traveling Structural Steel Work, etc.), 47 Winter
 *Boston Coin Machines Co., 381 Albany
 *Boston Coupling Co. (Machinists & Brass Finishers), 156 Pearl
 *Boston Electric Co. (Elec. Specialties), 29 Harrison av Extension
 *†Boston Machine Works (Marine Engines, Motor Vehicles, etc.), 65 Franklin
 *Boston Motor Co. (Machinists), 43 Columbus av
 *Boston Nickel Plating Co. (Brass Finishers), 160 Portland
 *Boston Printing Press & Machinery Co. (Printing Machy.), 176 Federal
 *Boston Steam Specialty Co. (Steam Traps, Separators, Indicators, Lubricators, etc.), 168 Congress
 *Boston & Lockport Block Co. (Tackle Blocks, Diaphragm Pumps, Differential Hoists, etc.), 100 Condon
 *Boylston Mfg. Co. (Shoe Machy, etc.), 183 Essex
 *Bradley Pulverizer Co. (Cement & Pulverizing Machinery), 92 State
 *Brown, E. R., Beer Pump Co. (Brewers' Supplies), 11 Chardon
 *Brown-Talbot Machinery Co. (Motors, etc.), Old South bldg
 *Burke, P. F. (Toe Calks, etc.), Dow & Dorchester av
 *Buzzell, J. G. & Co. (Boot & Shoe Machy), 102 High
 *Cahill, Michl. F. (Brass Ferrules, etc.), L E 1st, S. B.
 *Campbell-Bosworth Machinery Co. (Harness Machinery), 205 Lincoln
 *Carpenter, Lewis A. (Machinist), 27 Purchase
 *Carson Trench Machine Co. (Trench & Excavating Machy, etc.), 16 Dorrance
 *Champion Buttonhole Machine Co., 10 High
 *†Chilson Furnace Co. (Hot Air Furnaces, Stoves & Ranges), 88 Wash'n
 *Clark, D. W. & Co. (Brass Fdrs.), 280 W 1st, S. B.
 *Codman, F. L. & J. C. (Buff Wells, etc.), 108 K, S. B.

*†Coffin Valve Co. (Valves, Sluice Gates, etc.), Tolman St, Dor
***CROSBY STEAM GAGE & VALVE**
 Co. (Steam Specialties), 97 Oliver. (See adv. index, end of book)
 *Cross Paper Feeder Co., 185 Summer
 *Crowther, Joseph, 81 Haverhill
 *Cummlings Machine Works, 11 High
 †Cunningham, J. H. Co., 269 Congress
 ‡Dahlquist Mfg. Co.
 *Dalrymple & Brissette (Machinists), 556 Atlantic av
 *†Dalton-Ingersoll Mfg. Co. (Plumbers' Brass Goods), 173 High
 *†D'Este, Julian Co. (Steam & Plumbing Specialties, Brass Fdrs. & Finishers), 24 Canal
 *†Edson Mfg. Co. (Diaphragm & Force & Lift Pumps, etc.), 255 Atlantic av
 *Electric Goods Mfg. Co. (Electrical Goods, etc.), 115 Purchase
 *Elliott Co. (Addressing Machines), 100 Purchase
 *Empire Laundry Machinery Co. (Laundry Mach'y). Works, Newton, Mass.
 †Estabrook's, R. Sons (Soil Pipe & Fittings & Castings, etc.), 204 W 1st, S. B.
 *Eyelet Tool Co., 40 Lincoln
 *Fifeid Shoe Machinery Co. (Shoe Machy), 53 High
 *Flinch, J. H. (Brass Finisher), 96 High
 *Fitzhenry, E. L. & Co. (Yacht & Launch Engines, etc.), 49 Washington N
 *Fowler, W. H. & Co., 38 Chardon
 †Foxboro Foundry Co., 19 Congress
 †Fraser Machine & Mfg. Co., 70 Freeport
 *†Gibby Foundry Co. (Brass Fdrs.), 96 Condor, E. B.
 ‡Gilchrist, Geo. E. Co. (Brass Fdrs & Finishers), 106 High
 *Gillette Safety Razor Co. (Safety Razors), 41 W 1st
 *Gillmore Electric Co. (Elec. Bench Grinders & Elec. Lamps, etc.), 625 E 1st, S. B.
 *§Granular Metal Co. (Brass Fdrs), 77 Farnham, Rox.
 *Grant Gear Works (Gears & Pinions, etc.), 6 Portland
 *§Grundy, J. E., & Co. (Brass Finishers), 82 Sudbury
 *†Gurney Heater Mfg. Co. (Heaters, Radiators, etc.), 188 Franklin
 *†Gurney, Jas., & Co. (Castings), 202 Border
 *§Hall, Wm. & Co. (Brass Fdrs & Finishers), 7 Dock sq
 *Ham, L. M., & Co. (Cold Iron Sawing & Coping Machines, etc.), 158 Portland
 *§Hamlin & Emery Brass Co. (Brass Goods & Castings), 26 Island, Rox.
 *§Hancock Inspirator Co. (Injectors & Ejectors, etc.), 23 Watson
 *Hart Mfg. Co., 352 Atlantic av
 *Hart, Thos. H., & Co., 563 Rutherford av
 *†§Hayden & Derby Mfg. Co., 1 Watson. Main Office: New York
 *§Hersey Mfg. Co. (Sugar & Soapmakers' Machy, Water Meters, etc.), 314 West Second
 *†Highland Foundry Co. (Stoves, Furnaces, etc.), 1341 Columbus av
 *Highland Machine Co. (Machinists' & Pattern Makers, etc.), 56 Kemble, Rox.
 *§Hill, Geo. Q., Co., 326 A
 *§Hodgdon Brass Works (Brass Finishers, etc.), 421 Atlantic av
 §Hollings, R., & Co. (Gas & Electric Fixtures), 10 Hamilton pl
 *Holmes, Chas. Machine Co. (Hide & Leather Working Machinery), 299 Marginal, E B
 *Howard & Bullough American Machine Co. (Ltd.) (Cotton Machinery, etc.), 65 Franklin
 *Howe & Clausen (Machinists), 208 Summer
 †Howes, S. M., Co. (Stoves, etc.), 40 Union
 *§Hunt, Harry (Brass Finisher, Dies, etc.), 97 Haverhill
 †§Hunt-Spillner Mfg. Corp. (Gun Iron Castings), 383 Dorchester av, S. B.
 *Isele, Ambrose W. & Son (Tools, etc.), 51 Pitts
 *Jones Mfg. Co. (Water Filters), 243 Franklin
 *Knapp, Gardner & Co., 62 Sudbury
 *Knapp, James M., 12 Bowker
 †Krasser F. & Co. (Iron Fdrs.), 31 George
 *†Laconia Car Co. Works (Electric Cars & Trucks & Malleable & Grey Iron Castings), 100 Boylston. Works, Laconia, N. H.

*Lang, J. A., & Sons (Dies, Tools & Light Mach'y), 280 Dover
 †Lincoln, Geo. H. & Co. (Iron Fdrs.), foot of Alger, S. B.
 †Livermore, Homer F. (Steel & Malleable Castings), 85 Pearl
 *†Lockwood Mfg. Co. (Marine Engines,
 *Long, J. H., Machine Co. (Machinery), 184 High
 *†§Lumsden & Vau Stone (Heating, Specialties, etc.), 1 Dorchester, S. B.
 *Long, J. H. Machine Co. (Machinery), 184 High
 *Lundin Electric & Machine Co. (Electrical Specialties), 10 Thacher
 †Lundin Steel Casting Co. (Hard & Soft Crucible Steel Castings), 6 Beacon
 *Lunt, Moss Co. (Gasoline Engines, etc.), 43 S. Market
 §McCafferty, J. H., & Co. (Brass & Bronze Founders, etc.), 434 Harrison av
 §McCaul Brass Fdry Co. (Brass Fry.), 289 South
 *§Macallen Co., Foundry & Division
 §McGann, T. F., & Sons Co. (Brass Fdrs. & Finishers), 104 Portland
 *†McLaughlin, Geo. T. Co. (Machinery Builders), 120 Fulton
 *†Magee Furnace Co. (Heating & Cooking Apparatus), 38 Union
 *Marshall, Son & Co. (Book Binders & Paper Box Machy.), 226 Purchase
 *Marston, J. M., & Co. (Saws, Wood Working Machinery, etc.), 226 Ruggles
 *Mason Regulator Co. (Regulators, etc.), 158 Summer
 *Mass. Oilless Bearing Co., 84 State
 *†Mechanics Iron Fdry. Co. (Grate Bars, etc.), 38 Kimble, Rox
 *Meisel Press & Mfg. Co. (Printing Presses & Slitting & Winding Mach'y), 944 Dorchester av
 *Metcalf, J. C. Paper Box Machinery Co. (Paper Box Machy.), 102 Pearl
 *§Mitchell, R. & Co. (Brass Finishers), 350 Atlantic av
 *Moore, Geo. W. (Piano Hdw. & Tools, etc.), 15 Chardon
 *Moore & Wyman Elevator & Machine Works, 72 Granite
 †Morandi-Proctor Co. (Cooking Apparatus), 48 Union
 §Morse, Andrew J., & Son (Fire Dept. Supplies & Brass Finishers), 221 High
 *Morrison, Angus (Machinist & Elevators, etc.), 18 Harvard pl
 §Murdock-Shaw Co. (Bronze Files, etc.), 125 Federal
 *Murray & Tregurtha Co. (Steam & Gasoline Launch Engines), 340 W 1st, S. B.
 *Nary, F. E. (Brass Finisher), 51 Chardon
 *National Machine & Tool Co. (Machy, Jigs, Tools, Dies, etc.), 253 A
 *Nevelson & Freeman Machine Co. (Tools & Light Mach'y, Dies, etc.), 352 Atlantic av
 *New England Buff Co. (Cotton Buffs, etc.), 95 Albany
 *Nicholas & Stephenson (Machinists), 208 Summer
 *Norton, A. O. (Ratchet Screw & Track Jacks), 286 Congress
 *Nutter, Barnes & Co. (Cold Saw Cutting-Off Machines, etc.), 326 A
 *†Otis Elevator Co., S. Boston
 *Pattinson Mfg. Co., 48 Stanhope
 *†Pilgrim Foundry Co. (Stoves, etc.), 53 Locust
 *Poland Laundry Machinery Co. (Laundry Machy), 49 Kemple, Rox.
 *Poole & Price Machine Co., 25 Hartford
 *Porter-Whidden Co., 132 Meridan
 *Radford & Head (Dies, Tools, etc.), 102 Pearl
 *Reece Button Hole Machine Co., 502 Harrison av
 *Renim Specialty Co. (Electrical Specialties), Brighton Station
 *Reynolds Machine Co. (Printers' Machinery), 311 Atlantic av
 *Rivett Lathe Mfg. Co. (Watch Tools, etc.), 1 Brooks, Brighton
 *Roberts, J. H., & Co. (Machinists), 122 Second, E. Cambridge
 §Rogers, C. E. (Brass & Bronze Fdry.), 34 Beach
 §Scrannage Bros. (Brass Fdrs. & Finishers), 77 Travers
 Seelye Mfg. Co. (Shoe Machinery), 118 South
 *Shawmut Machinery Co. (Shoe Machy), 82 Lincoln
 *†Smith, G. W. & F., Iron Co. (Iron Fdrs. & Builders' Iron Wks), Gerard St. Rox

*Smith, J. T., & Co., 9 Quincy row
 *†§Smith & Anthony Co. (Stoves & Plumbers' Supplies), 54 Union
 *†Smith & Lovett Co. (Inc.) (Builders' Castings & Machine Work), 129 Albany
 *†§Smith & Thayer Co. (Steam Heating Apparatus), 234 Congress
 *Souther, John & Co. (Dredging Machines, etc.), 185 Summer
 *†Standard Rivet Co. (Rivets, Rivet & Staple Setting Machines, etc.), 41 Lincoln
 *§Star Brass Mfg. Co. (Steam Specialties & Brass Fdrs.), 108 E Dedham
 §Star Refining Co. (Brass Fdrs., Babbitt Metal, etc.), 50 State
***STEEL CABLE ENGINEERING**
 Co. (Elevating & Conveying Machinery), 92 State
 *Stephenson, L. & Co. (Scales), 22 Custom
 *Stone, Henrie D. (Engineer & Mchnst.), 7 Sherman, Chsn
 §Strater, Herman, & Sons (Brass Fdrs. & Finishers, Bar Fixtures, etc.), 74 Sudbury
 *Stubbs, S. K. (Machine Knives, etc.), 30 Kemble
 *§Sturtevant Mill Co. (Cement & Pulverizing Machy), Clayton c Park, Dor.
 *Tarbett & Fraser, 172 Oliver
 *Textile Machinery Co. (Flyers, etc.), 60 India
 *Trimont Mfg. Co. (Wrenches), 55 Amory av, Rox.
 *Tucker, Frank S. (Metal Specialties), 1 Hartford
 *Tufts, Nathaniel, Meter Co. (Gas Meters), 455 Commercial
 *Underhill Bros. (Edge Tools), 6 Sherman, Chsn
 *§Union Brass Works Co. (Brass Fdrs. & Finishers), 421 Atlantic av
 *Union Scale Co. (Automatic Scales, etc.), 14 L, S. B.
 *United Printing Machinery Co. (Photo-Engraving Machy, etc.), 246 Summer
 *†United Shoe Machinery Co. (Shoe Machinery), 205 Lincoln
 *†§U. S. Navy Yard, Charlestown
 *Universal Winding Co. (Textile Machy), 95 South
 *Wade Machine Co. (Punches, Dies, etc.), 133 Oliver
 *Walker, G. A., Machine Co. (Bench Vises, etc.), 51 Chardon
 *†Walker & Pratt Mfg. Co. (Stoves, Furnaces, Radiators, Cooking Apparatus, etc.), 33 Union
 *†§Walworth Mfg. Co. (Pipe Cutting & Threading Machines, Stocks & Dies, & Iron & Brass Fdrs, etc.), 132 Federal
 *Welch, T. F., & Co. (Gears & Specialties), 55 Sudbury
 *Whitney, Frank E., 65 Sudbury
 *†Whittier Machine Co. (Elevators, Iron Fdrs., etc.), 53 State
 *Wold Machine Co., 14 L
 *†Wollaston Foundry Co. (Machy, Piano Plate & Light Castings), 185 Summer
 *Woods, S. A. Machine Co. (Woodworking Machy, etc.), Dorst st, S. B.
 *Wyke, John & Co. (Machinists' Tools, etc.), 893 Saratoga, E. B.
 BRAINTREE—*Dow Portable Electric Co. Spark Plugs, etc.)
 BRIDGEWATER—*Continental Gin Co. (Cotton Gins, etc.)
 *†§Perkins, Henry, Co. (Iron Fdrs. & Wire Nail Machy.)
 *§Stanley Works (See New Britain, Conn.)
 BROCKTON—*Postock, Thos. & Sons (Machinists)
 *Brockton Die Co.
 *Donnelly Machine Co.
 *Independent Die Co.
 *Kimball Bros. & Sprague (Nail Mill & Tack Machy, etc.)
 *Knight, Geo. & Co. (Machinists)
 *Pickard Bros. (Machinists)
 †Pratt Foundry Co.
 *Scott, Geo. V. Co. (Machinists)
 *Tuck Mfg. Co. (Shoe Knives, etc.)
 *†United Shoe Machinery Co. (Shoe Machy). (See Boston, Mass.)
 BROOKLINE—*†Holtzer-Cahot Electric Co. (Electric Machy. & Specialties)
 CAMBRIDGE—*†Barbour-Stockwell Co. (Street Railway Specialties & Castings)
 *Blanchard Machine Co. (Fertilizer & Soap Makers' Machinery)
 *Boston Bridge Works (Inc.). (See Boston)
 *Boston Tool Co. (Tools, etc.)
 *§Boston Woven Hose & Rubber Co. (Hose Couplings, Nozzles, etc.)

- †Broadway Iron Foundry Co. (Iron Fdrs.)
 *Clark & Mills Elec. Co. (Electric Specialties). (See Boston, Mass.)
 *Davis, F. H. (See Boston, Mass.)
 *Field, Walter W. (Hoisting Engines, etc.)
 *Harvard Marine & Auto Co. (Engines, etc.)
 *Hayden, Geo. W. (Brass Fdry.)
 *†International Steam Pump Co. (Knowles Steam Pump Works Dept.)
 *Kanal, M. E. Co. (Door Hangers, etc.)
 *†MEAD-MORRISON MFG. CO. (Hoisting & Conveying Machinery). (See adv. index, end of book)
 *†Roberts Iron Works Co. (Fdrs., etc.)
 *Roberts, Jas. H. & Co. (See Boston, Mass.)
 *†Riverside Boiler Works
 *Seelye Mfg. Co. (Shoe Machy., etc.)
 *Shaw, Hamlin J.
 *Simplex Electric Heating Co. (See Boston, Mass.)
- CHELSEA—*†Griffin Wheel Co. (Car Wheels) (See Chicago, Ill.)
 *International Heater Co. (of Utica, N. Y.)
 *†Lovewell-Henrich Co. (Laundry Machy.)
 †Lundin Steel Casting Co. (See Boston, Mass.)
 *†Magee Furnace Co. (See Boston, Mass.)
 *†Snow, W. A. Iron Works (Stable Fixtures & Ornamental Iron Works, etc.)
- CHESHIRE—*†Colt, Samuel G.
- CHICOPEE—*†Ames Sword Co.
 *Mosman, M. H. (Bronze Fdr.)
 *National Scale Co. (Computing Scales & Counting Machines)
 *Page-Storms Drop Forge Co.
 *†Spalding, A. G., & Bros. Mfg. Co.
- CHICOPEE FALLS—*†Belcher & Taylor Agricultural Tool Co. (Agrl. Impls. & Tools)
 *†Lamb Knitting Machinery Co. (Textile Machy.)
 *Stevens, J. Arms & Tool Co. (Fire Arms & Machine Tools, etc.)
- CLINTON—*†Clinton Foundry Co. (Machinists' Iron & Brass Castings for Builders & Machinery)
- CONCORD—*Hancock, W. C.
- DALTON—*Jordan, G. J. (Machinists)
 *†Pittsfield Spark Coil Co. (Coils, Dynamos, etc.)
- DANVERS—*Nightingale, J. Ellis
- DEDHAM—*Shatswell, H. K. & Co. (Machinists & Power Lanches)
- EAST BRAINTREE—*†Victor Metals Co.
- EAST BRIDGEWATER—*†Carver Cotton Gin Co. (Cotton Gins, etc.)
 †Old Colony Foundry Co.
- EAST BRIMFIELD—*Snell Mfg. Co. (Ship Augers, etc.)
- EAST DOUGLASS—*American Axe & Tool Co. (Axes, Edge Tools, etc.)
- EASTON—*†Belcher Malleable Iron Co. (Malleable Iron & Steel Castings)
- EAST TEMPLETON—Bay State Metal Wheel Co.
- EVERETT—*Bent, G. W. & Co. (Iron & Brass Bedsteads)
 *Blount, J. G. & Co. (Machine Tools)
 *†Massachusetts Steel Casting Co. (Steel Castings, etc.)
 *†New England Structural Co. (Builders' Iron & Steel Work)
 *Porter, Henry K. (Bolt Clippers, etc.)
 *Waters Governor Co. (Governors, Valves, etc.)
- FAIRHAVEN—*†Fairhaven Iron Foundry Co. (Iron Fdrs. & Steam Motors, etc.)
- FALL RIVER—*Bates, Geo. A., & Son (Machinists)
 *Belcher Motor Co. (Gasoline Engines, Models, etc.)
 *Covel Machine Co. (Machinists)
 *Creighton, Thos. J. Co. (Brass Fdrs.)
 *†Fall River Fdry. & Machine Co. (Iron & Brass Castings & Cotton Machy.)
 *Fall River Steam & Gas Pipe Co. (Machinists, etc.)
 *Fyans, Fraser & Blackway Co.
 *Kay, H. E. (Est. of) (Lathes, Chucks, etc.)
 *†Kilburn, Lincoln & Co. (Textile Machy., Looms & Water Wheels, etc.)
 *†Mechanics' Foundry & Machine Co. (Iron & Brass Fdrs. & Machinists)
 *Shea Bros. (Machinists)
 *Thurston, A. G. & Son (Machinists)
- FISKDALE—*Snell Mfg. Co. (Augurs, Bits, Countersinks, Nails, etc.)
- FITCHBURG—*Bath Grinder Co. (Emery Grinding Machy.)
 *Blake Pump & Condenser Co. (Steam Pumps & Condensers)
 *Brown Bag Filling Machine Co. (Paper Bag & Envelope Machines, etc.)
 *Brown, C. H. Engine Co. (Engines, etc.)
- *Cowdrey, C. H. Machine Works (Woodworking & Special Machy.)
 *Deane, Herbert C. (Special Machy, etc.)
 *†Fitchburg Machine Work (Machine Tools, etc.)
 *Fitchburg Steam Engine Co. (Engines, etc.)
 *†Goodnow, L. H. Foundry Co. (Iron Fdrs, Heavy Fly Wheels, Engine or Machine Castings)
 *Hardy, Wm. A., & Sons Co. (Brass & Bronze Castings, Screen & Suction Plates, etc.)
 *Henneman Coffee Roaster Co. (Coffee Roasting Machy.)
 *†Johnson's, Iver Arms & Cycle Works (Fire Arms, Bicycles, etc.)
 †Perault, Moses J. (Iron Castings, Fly Wheels, Pulleys, etc.)
 *†Putnam Machine Co. (Machine Tools, Woodworking Machy, Steam Engines, Brass Fdrs, etc.)
 *Sawyer Tool Mfg. Co. (Tools, etc.)
 *Simonds File Co. (Files, etc.)
 *Simonds Mfg. Co. (Saws, Machine Knives, etc.)
 *Thomson, Alex. (Boiler Makers' Tools)
 *Tyrrell, Harlan P.
 *†Union Foundry Co.
 *†Union Machine Co. (Paper & Pulp Mill Machinery & Iron Fdrs)
 *†Union Screen Plate Co. (Brass Fdrs, Screen & Suction Plates, etc.)
 *Wachusett Machine Co. (Woodworking Machinery)
 *Waymouth, A. D. & Co. (Variety Wood-Turning Lathe)
 *Welch, E. J. & Co. (Brass Fdrs.)
 *Wilder, Chas. W. (Wood-Turning Lathes, etc.)
 *Wilder, Levi (Lathes, etc.)
- FLORENCE—*†Florence Co. (Oil Stoves, etc.)
 *†Norwood Engineering Co. (Iron Fdrs. & Machinists, Fire Hydrants, Water Fittings for Mills, etc.)
- FOXBORO—*†Foxboro Foundry Co.
 *†STANDARD GAUGE MFG. CO. (Electrical Specialties, Steam Gauges, etc.). (See adv. index, end of book)
- FRANKLIN—*†Golding Mfg. Co. (Printing Machinery)
 *Rose, Jas. F.
- GARDNER—*Alzinger, Napoleon
 *Bancroft & Barnard (Machy.)
 †Central Oil & Gas Stove Co. (Gas & Oil Stoves & Heaters)
 †Gardner General Foundry Co.
 *Gardner Machine Co.
 *Gardner Machine Works (E. N. & W. H. Hobby, Props.) (Chair Machy, etc.)
 †Gardner General Foundry Co.
 †Hoglund, G. E. Foundry Co.
 *†McKnight, L. G., & Son Co. (Chair & Woodworking Machinery)
 *Sawin, Edw. H. (Special & Chair Machy.)
 *Simplex Time Recorder Co. (Time Recorders)
- GLOUCESTER—*†Cape Ann Anchor Works
 †Reed, Geo. A., & Son
 *Richardson's, N. Sons Mfg. Co.
 *Stoddard, Adam P. & Co. (Machinists)
- GREAT BARRINGTON—†Stevens, Geo. A.
- GREENFIELD—*American Tap, & Die Co. (Taps, Dies, etc.)
 *Conant & Donelson Co. (Screw Cutting Tools, etc.)
 *Goodell Mfg. Co. (Machinists' Small Tools, etc.)
 *Goodell-Pratt Co. (Drills, Hack Saws, etc.)
 *Greenfield Machine Co. (Machine Tool Grinders)
 *Massachusetts Tool Co. (Surface Gauges, Micrometers, etc.)
 *†Noyes, B. B., & Co. (Drills, Vises, etc.)
 *Reese, E. F. Co. (Taps, Dies, Bolt Cutters, etc.)
 *Smart, A. J. Mfg. Co. (Taps & Dies)
 *WELLS BROS. CO. (Machinists' Fine Tools, etc.) (See adv. index, end of book)
 *Wells, F. E. & Son Co. (Pipe Tools, etc.)
 *Wiley & Russell Mfg. Co. (Machine Tools, etc.)
 †Wing, Chauncey (Pattern Works, etc.)
- HARVARD—*Hildreth Bros. (Kindling Wood Machy., etc.)
- HATFIELD—*Porter Machine Works (Lathes, etc.)
 *Shattuck, C. S. (Fire Arms, Hammerless, etc.)
- HAVERHILL—*Allen Machine Co. (Shoe Machinery)
 *Bckett & Hammond Machine Co.
 *Briggs Belmar Edge Tool Co.
 *Busfield, Jas. (Machinist)
 *Eureka Machine Co. (Machinists)
 *Haverhill Fire Appliance Co.
- HAYDENVILLE—*†Bay State Brass Co. (Plumbers' Brass Goods)
 *†Haydenville Co. (Brass & Iron Goods for Water, Steam & Gas)
 *Ryan Bros. (Plumbers' Supplies)
- HOLLISTON—*Wilder, Sidney & Co. (Pumps, etc.), Washington st
- HOLBROOK—*C. A. C. Axe Co. (Edge Tools, etc.)
- HOLYOKE—*Barlow Mfg. Co. (Brass Castings & Metal Works)
 *†COBURN TROLLEY TRACK MFG. Co. (See adv. index, end of book)
 *†Dean Steam Pump Co. (Sec International Steam Pump Co., New York City)
 *Higgins & Co. (Composition, Brass, Aluminum, Aluminum Bronze, Phosphor Bronze Castings, etc.)
 *Holyoke Bar Co. (Machine Knives, etc.)
 *†Holyoke Machine Co. (Paper & Pulp Mill, Cotton Mill, Power Transmitting & Wood Barking Machy.)
 *†Holyoke Motor Foundry Co.
 *†Holyoke Valve & Hydrant Co. (Valves Hydrants, etc.)
 *†Jolly, J. & W. (Paper & Pulp Mill Machinery, etc.)
 *Judson & Williams (Screen Plates, etc.)
 *Koegel, Chas. & Son (Wire Spooling Machines, etc.)
 *Paper City Brass Foundry
 *†Perkins, B. F. & Son (Paper & Pulp Mill Machy.)
- HOPEDALE—*†Draper Co. (Textile Machy., Looms, etc.)
 *†Roper, C. F., & Co.
 *Westcott, A. A., & Sons (Spindles, etc.)
- HOPKINTON—*Fyereberg, Andrew, & Son Mfg. Co. (Fire Arms)
- HUDSON—*Lapointe Machine Tool Co. (Key-seat Broaching Machines, Adjustable Reamers, Toolmakers, etc.)
 *Tower Bros. (Machinists)
 *Universal Boring Machine Co. (Boring Machines)
 *Woodward, W. A. (Machinists)
- HYDE PARK—*†American Tool & Machine Co. (See Boston)
 *†Becker Milling Machine Co. (Machine Tools, etc.)
 *†New England Steel Casting Co.
 *†Sturtevant, B. F. Co. (Blowers, Engines, Generating Sets, etc.)
 *Robinson, John T. Co. (Book Binder, Card Cutting & Paper Box Machy.)
- INDIAN ORCHARD—*†Chapman Valve Mfg. Co. (Valves, Hydrants, Water Works Supplies, etc.)
 *Hough Cash Recorder Co.
 *Metallic Drawing Roll Co. (Textile Machy, etc.)
- LAWRENCE—*Co-Operative File Co. (Files, etc.)
 †Davis Foundry Co. (Iron Fdrs.)
 †Dillon Machine Co. (Paper Mill Machy.)
 *Emerson Mfg. Co. (Paper & Pulp Mill Machy.)
 *Fallon, T. F. & Co.
 *†Hamblet Machine Co. (Paper Mill Machinery)
 *†Horne, J. H. & Sons Co. (Paper Mill Machy., etc.)
 *†Lawrence Machine Co. (Engines, Pumps, etc.)
 *†Lawrence Pump & Engine Co. (Pumps, etc.)
 *McCabe, E. & Co. (Machinists)
 *McCaffrey, John (Machinist & Loose Pulleys, etc.)
 †Merrimack Iron Foundry
 *Mills Machine Co. (Machinists)
 *Sprague, L. Co. (Bobbins, etc.)
 *Stanley Co. (Shoe Machy., etc.)
 *Watts Regulator Co. (Machinists & Brass Finishers)
- LEE—*†Clark, H. C., & Son Machine Co. (Paper Mill Machinery, etc.)
- LEEDS—Northampton Emery Wheel Co. (Emery Wheels & Grinding & Polishing Machy.)
- LEOMINSTER—*Cook, F. H. & Co. (Comb & Hairpin Machy.)
 Grimes & Harris (Button Machy.)
 *Smith, A. A. (Machinist)
 *Stowell, J. A. Co. (Saw Benches, Buzz Planers, Polka Machines, etc.)
- LEXINGTON—*†Jefferson Union Co. (Brass Fdrs., Flange Couplings, Pipe Unions, etc.)
- LOWELL—*American Mason Safety Tread Co.
 *Bagshaw, W. H. (Estate) (Textile Machy., etc.)
 *Barker, H. R. Mfg. Co. (Machinists)
 *Bennett Bros. Gas Engine Co. (Windmills, Gasoline Engines, etc.)
 *Cady, Geo. L. & Sons (Machine Tools, Book Trimming Machines, etc.)
 *Carey, W. W. Co. (Woodworking Machy.)
 †City Iron Foundry

*Dennis, John & Co. (Textile Machy.)
 *Dodge, Chas. S. (Textile Machy., Pick-
 †Doherty Bros. (Iron Fdrs.) ers, etc.)
 *Entwhistle, T. C. Co. (Textile Machy.)
 *Field, Geo. W. (Heavy Lathes, etc.)
 *Gee, Chas. E. (Machinist)
 *Hope, Wm. A., & Co. (Milled Screws, etc.)
 *†Kiltson Machine Shop (Special Machy.)
 *Knapp, Arthur P.
 *Knowles Scale Works (Scales & Weigh-
 *Lahue, M. M. & Co. ing Machines)
 *Lovejoy, Daniel & Son (Machine Knives, etc.)
 *†Lowell Machine Shop (Cotton Machy., etc.)
 *Lowell Shuttle Co.
 *McBride Machine Co. (Wool Machy., etc.)
 *Middlesex Machine Co. (Machinists)
 *New England Motor Co. (Dynamos & Motors)
 *†Nichols Foundry Co.
 *Parker, Frank
 *Perkins, Francis S. Co. (Lathes, etc.)
 †Pevey Foundry Co. (Iron, Brass, Comp. White Metal Fdrs., Wool Washing Machines, etc.)
 †Robinson, James P. chines, etc.)
 *Stott, Sam'l E. & T. (Machine Wool Combs & Textile Machy)
 *Turner, John D. (Jack Screws)
 *Turner, J. S. Mfg. Co. (Worsted Roll Covering Machines)
 †Union Iron Foundry Co.
 *Union Brass Fdry. Co. (Brass & Composition Castings)
 *U. S. Cartridge Co. position Castings)
 *Upton & Gilman
 *Willson, D. H. & Co. (Textile Machy., etc.)
 *Wrigley, Wm. & Co. etc.)
 LYNN—*Allen Machine Co. (See Haverhill, Mass.)
 Boston Machine Works
 †Central Iron Foundry Co.
 *Bresnahan Shoe Machinery Co. (Shoe Machinery)
 *Cilley, W. W. & Co. (Shoe Stitchers)
 †Dempsey, John F., & Co.
 *Dwyer Machine Co.
 *Ellison, Albert W. (Leather Machy.)
 *Embree, W. F. & Co. (Machinists)
 *Essex Machine Co. (Machinists)
 *Essex Engine Co.
 *Gallagher, Bernard,
 *†General Electric Co. (Thomson-Houston Plant). (See Schenectady, N. Y.)
 *Hart, T. F.
 *Hemingway, John & Son (Woodworking Machinery)
 *Hemingway Machine Co. (Leather Machy.)
 *Holmes, E. M. (Machinist)
 *Knox, Joseph E., Co. (Cutting Dies, etc.)
 *Osborne, J. W. & Co. (Shoe Stitchers)
 *Robinson, Henry (Est of) (Dies, etc.)
 †Smith Iron Foundry, Inc. (All kinds of Light and Heavy Castings)
 *Stanbon, Chas. P. & Co. (Shoe Machy.)
 *Quarby & Hilliker (Shoe Machy., etc.)
 *Stephenson, Chas. H. (Plumbers' Specialties)
 *Stewart Bros. (Shoe Machy.)
 *Thomson Electric Welding Co. (Elec. Welding Apparatus)
 *Young, W. J. Machinery Co.
 MANSFIELD—*Bay State Tap & Die Co. (Taps, Dies, etc.)
 *Card, S. W. Mfg. Co. (Dies, Taps, Reamers, etc.)
 *†Chilson Furnace Co. (Hot Air Furnaces, Stoves & Panges). (See Boston)
 †Mansfield Furnace & Coal Co.
 †Shields Foundry Co. (Iron Fdrs.)
 MARLBORO—*Marlboro Electric Machine & Lamp Co.
 *†Parsons, Henry, & Son (Special Machy., etc.)
 MEDFORD—*Scott & Sons Co. (Chucks, etc.)
 *Wellman Co. (Shoe & Special Machinery)
 MERRIMAC—*England, Geo. W.
 *§Jonah & George (Brass Specialties)
 §Murphy, Geo. W. J., Co.
 §Murphy, John H.
 METHUEN—*†Sanborn Furnace Co. (Hot Air Furnaces, etc.)
 MIDDLEBORO—†Le Baron Foundry Co. (Iron Founders)
 MILFORD—*Damon, J. F. (Machinist)
 *Edmonds, A. B. (Paper Box Machinery)
 †Milford Iron Foundry (Iron Fdrs.)
 MILLBURY—*Buck Bros. (Edge Tools, etc.)
 *Buck, Chas., Edge Tool Co. (Edge Tools, etc.)
 Oakley Steel Foundry Co. (Steel Castings, Rail Bonds, etc.)
 †Worcester Steel Foundry Co. (Steel & Machinists' Fine Tools & Hardware Specialties, etc.)
 NATICK—*Brewer, A. G. (Machinist)

NEW BEDFORD—†Acushnet Iron Co.
 *Baker Machine Co. (Machinists)
 *Morse Twist Drill & Machine Co. (Twist Drills, etc.)
 *§New Bedford Boiler & Machine Co. (Valves & Machinists, etc.)
 *†New Bedford Foundry & Machine Co.
 *New Bedford Shuttle Co. (See Boston, Mass.)
 *Rankin & Arnold
 †Swift, Augustus
 *Tripp, Frank S.
 NEWBURYPORT—*†Russell, Albert, & Sons Co. (Iron Fdrs. & Machinists)
 NEWTON—*Empire Laundry Machinery Co. (Laundry Mach'y). (See Boston, Mass.)
 NEWTON CENTER—*EVANS FRICTION Cone Co. (Pulleys, etc.), 1288 Center. (See adv. Index, end of book)
 *Gooch, Arthur M.
 NEWTON UPPER FALLS—*Gamewill Fire Alarm Telegraph Co.
 *†Saco & Pettee Machine Shops (Textile Machinery)
 NORFOLK DOWNS—*Boston Gear Works (Gears, Bushings, Bearings, etc.)
 NORTH ADAMS—*Arnold Print Works
 *†§Hunter, Jas., Machine Co. (Power Transmitting & Textile Machy.)
 NORTHAMPTON—*Herrick, Chas. E. (Mchist.)
 NORTH ANDOVER—*†§Davis & Furber Machine Co. (Textile Machy.)
 NORTHBORO—*Whiting Mfg. Co. (Cash Registers, etc.)
 NORTH DIGHTON—†North Dighton Co-Operative Stove Co. (Stoves)
 NORTH CHELMSFORD—*†Chelmsford Fdry. Co.
 *North Chelmsford Machine & Supply Co.
 NORTH PLYMOUTH—*†Seaside Foundry Co.
 NORWOOD—*†Pimpton, J. E., & Co.
 OAKHAM—†Dean, Walter R. (Furnaces, etc.)
 ORANGE—*†Chase Turbine Mfg. Co. (Machinists, Millwrights & Fdrs.)
 *†§Hunt, Rodney, Machine Co. (Textile Machinery, Pumps, etc.)
 *Leavitt Machine Co. (Valve Re-Seating Machy.)
 *†New Home Sewing Machine Co. (Sewing Machines)
 OTTER RIVER—†Lord, Stone & Co. (Stoves, etc.)
 PALMER—*†Francis, Ralph D. etc.)
 PEABODY—*Boyle, John Machine Co. (Machinists)
 †Marine Hardware Co. (Marine Hdw., etc.)
 *Newell & Knowlton, Inc. (Grease Extractors, etc.)
 *†Peabody Leather Machy Co. (Leather Machy, etc.)
 *†Turner Tanning Machinery Co. (Hide & Leather Working Machinery)
 PEPPERELL—*Blake, H. & Son (Machinists)
 PITTSFIELD—*†Chapel, A. M. Machine Co.
 *†Jones, E. D. & Sons Co. (Paper Mill & Power Transmitting Machy.)
 *§Stanley, G. L., Electric Mfg. Co. (Generators, Elec. Machinery, etc.)
 *Triumph Voting Machine Co.
 PLYMOUTH—*†Mixer, J. W., Saw Tool Co. (Saws, Gummers, Swages, etc.)
 *†Plymouth Foundry (Gas & Oil Stoves, etc.)
 QUINCY—*†Fore River Ship Building Co. (Iron & Steel Ships & Marine Engines, etc.)
 *Lizotte, Jos. & Co. (Gas & Gasoline Engines)
 *†Wollaston Foundry Co. (See Boston, Mass.)
 READVILLE—*†Stafford Co. (Textile Weaving Machinery, etc.)
 ROCHDALE—*Hankey, A. & Co. (Knives, etc.)
 ROCKLAND—*Arnold, H. H. etc.)
 SAGAMORE—*Keith Car & Mfg. Co. (Car Mfrs.)
 SALEM—*Atwood & Morrill (Steam Specialties)
 †Central Iron Foundry Co.
 *Dinsmore Mfg. Co. (Textile Machy.)
 †Eagle Iron Foundry (Inc.)
 *Goodell, Zina (Machinist)
 *†§Locke Regulator Co. (Steam Specialties)
 *Martin, Wm. F. (Leather Finishing Machines)
 *Patten, Paul B. (Motors, Car Lifts, etc.)
 *Rood, John (Gasoline Engines, etc.)
 *Salem Elevator Works (Elevators, etc.)
 †Salem Iron Foundry (Inc.)
 *§Spencer Regulator Co. (Steam Specialties, etc.)
 §Waters, Andrew S. ties, etc.)
 SALISBURY—*Weare, Samuel W.
 *HELBURNE FALLS—*Ducharmes & Co. (Small Tools, etc.)
 *Goodell Tool Co. (Small Tools, etc.)
 *Mayhew, H. H. Co. (Small Tools, etc.)
 SHREWSBURY—*Bement & Gaskill

SOMERSET—†Somerset Stove Foundry Co. (Stoves)
 SOMERVILLE—*Berry, Charles E.
 *Birch Bros. (Textile Machy.)
 *Forg, Peter (Machinist & Machy.)
 *Phillips Co. (Lubricators, Oil Cups, etc.)
 *Roberts Mfg. Co. (Bolt & Wire Clippers, etc.)
 †Somerville Iron Foundry (Iron Fdrs, etc.)
 SOUTHBRIDGE—*Putney, Newton E.
 SOUTH EASTON—*White, F. H. & Co.
 SOUTH EGREMONT—*Bliss Mfg. Co.
 †Dalzell Axle Co. (Carriage Axles, etc.)
 SOUTH FRAMINGHAM—†American Foundry Co. (Castings, etc.)
 *American Roller Bearing Co. (Ball and Roller Bearings, etc.)
 *†Robb-Mumford Roller Co. (Inc.) (Steam Rollers & Machinists)
 SOUTH SUDBURY—*†Hurlbut-Rogers Machine Co. (Machine Tools, etc.)
 SPENCER—*Goddard, John E. (Machinist)
 SPRINGFIELD—*Allen-Randall Co. (Bolt Cutters, Special Drop Forgings, etc.)
 *American Electric Switch Co. (Electric Switches)
 *Antiseptic File Co. (Files, etc.)
 *Bacon & Donovan Engine Co.
 *Barney & Berry (Skates, etc.)
 *†Bausch Machine Tool Co. (Machine Tools & High Grade Castings, etc.)
 *†Bemis Car Truck Co. (Electric Car Trucks, etc.)
 *Bemis & Call Hardware & Tool Co. (Tools, etc.)
 *Blair Mfg. Co. (Lawn Mowers)
 *Bullock Mfg. Associates (Watchmakers' Tools, etc.)
 *§Chapman, J. B. & Co. (Machinists, Composition Castings, etc.)
 *†Confectioners' Machinery & Mfg. Co. (Confectioners' Machinery)
 *Eldredge Elec. Mfg. Co. (Elec. Specialties)
 *§Emory, P. P. Mfg. Co. (Brass Finishers & Fdrs, etc.)
 *Ford, Humphrey (Brick Press Machy, etc.)
 *Gilbert & Barker Mfg. Co. (Gas Machines)
 §Hampden Brass Co. (Brass & Composition Castings)
 *†Hampden Corundum Wheel Co. (Emery & Corundum Wheels, Machinery, etc.)
 *Hannan & Flinton Co. (Machinists)
 †Hawkins, R. F. Iron Works (Builders' Iron Work, Grey iron Castings, Engines, Forgings, Bridges, etc.)
 *Hendee Mfg. Co. (Motor Cycles)
 *§Hercules Float Works (Aluminum & Brass Castings)
 §Milliet Brass Co. (Brass, Bronze & Aluminum Castings, etc.)
 Hopkinson Machine Works (Envelope Machines & Drill Vises), 23 Taylor
 *Marcell & Smith (Jack Screws, etc.)
 *†NEW ENGLAND ROLLER GRATE Co. (Grate Bars & Castings of All Descriptions)
 *OTIS ELEVATOR CO. (See New York City. (See adv. Index, end of book)
 *Piper, E. J. (Paper Ruling Machines, etc.)
 *Russell, John W. (Button Machines & Special Machinery)
 *Smith & Wesson (Revolvers, etc.)
 *Spencer, John S., Machine Works
 †Springfield Foundry Co. (Builders' Iron Work, etc.)
 *Springfield Iron Works (Machine & Drop Forgings, Elevators, Machine Work of all Kinds)
 *Stacy, E. S. Machine Co. (Machine Work of all Kinds), 41 Taylor
 *§Stebbins, E. Mfg. Co. (Brass Fdrs. & Finishers, Plumbers' Brass Goods)
 *Swaine, Jno (Machinist & Blacksmith, Iron & Steel Forgings, etc.)
 *Waltham Watch Tool Co. (Machine & Watchmakers' Tools, etc.)
 *†Wason Mfg. Co. (R. R. Cars, etc.)
 STOCKBRIDGE—*Yale, L. M. (Machinist)
 SUTTON—*Rice, H. F. (Mill Machy, etc.)
 TAUNTON—*Campbell Printing Press Mfg. Co. (Printing Presses, etc.)
 *†Cell Drier Machine Co. (Drying Machines, etc.)
 *Dary Ring Traveler Co. (Ring Travelers, etc.)
 *†Dighton Foundry Co.
 *Easternhouse Engine Co. (Engines, Motors, etc.)
 *Etna Co. (Twist Drills, etc.)
 *†Huber-Hodgman Printing Press Co. (Printing Presses)

*Lincoln-Williams Twist Drill Co. (Drills, etc.)
 *†Mason Machine Works (Textile Machinery)
 *New Process Twist Drill Co. (Twist Drills, etc.)
 Strange, Chas. E. (Box Makers', Stave & Heading Machy, etc.)
 *Strange, E. W. & Co. (Machinists)
 *Taunton-New Bedford Copper Co.
 †Thomas, Oscar G. (Stoves & Iron Fdry.)
 †Trefethen, Daniel A. (Brass Fdry.)
 †Weir Stove Co. (Stoves)
 †White-Warner Co. (Stoves, etc.)
 WAKEFIELD—*Purrrington, Elwin I.
 *§Sanitas Mfg. Co. (Plumbers' Specialties)
 *†Smith & Anthony Co. (Stoves, Ranges & Plumbing Specialties)
 WALPOLE—*Fales, L. F. (Special Machinery, Paper Slitting Machines, etc.)
 WALTHAM—*American Watch Tool Co. (Watchmakers' Machines & Tools)
 *Ames, B. C. & Co. (Watch & Clock Machy., etc.)
 *†Davis & Farnum Mfg. Co. (Cast Iron Pipe, etc.)
 *STARK TOOL CO. (Clock & Watchmakers' Tools, Precision Lathes, etc.) (See adv. index, end of book)
 *SUPERIOR CORUNDUM WHEEL Co. (Grinding & Polishing Machinery, etc.) (See adv. index, end of book)
 *Waltham Emery Wheel Co.
 †Waltham Foundry Co. (Iron & Brass Castings, etc.)
 *WALTHAM MACHINE WORKS (Watch & Clock Machy.) (See adv. index, end of book)
 *Waltham Mfg. Co. (Motor Cycles, etc.)
 *Waltham Watch Co. (Watches, etc.)
 WARREN — *†§MONARCH VALVE & Mfg. Co. (Valves, Hydrants & Waterworks Supplies, etc.) (See adv. index, end of book)
 *†§Perkins Machine Co. (Drop Hammers, Power Presses, Punching & Shearing Machy., etc.)
 *†Warren Steam Pump Co. (Steam Pumps, etc.)
 WATERTOWN—*Massachusetts Fan Co. (Blowers, Fans, etc.)
 *§Non-Corrosive Metal Co. (Carriage Hardware, Rustless Nickel Steel & Phosphor Bronze Castings)
 *†§U. S. Arsenal Foundry
 *†§Walker & Pratt Mfg. Co. (Stoves, Furnaces, Radiators, Cooking Apparatus, etc.). Office, Boston, Mass.
 WEBSTER—*†§Prescott, J. B., & Son
 WEST BOYLSTON—*Ovenden, W. C.
 WEST BRIDGEWATER—*Shipman, George (Eyelet Machinery)
 WESTFIELD—*Foster Machine Co. (Machinists & Textile Machy.)
 *Lounsbury, Chas. J.
 *Moore, M. E. & Son (Whip Machy.)
 *Palmer, Henry A. (Machinist)
 *†Pope Mfg. Co. (Bicycles, etc.)
 *Rogers & Whiting Co. (Hardware, etc.)
 *†Smith, H. B. Co. (Steam Heating Apparatus, Radiators, etc.)
 WESTFORD—*†Sargent's, Chas. G. Sons (Wool Working Machy.)
 WEST MANSFIELD—*Richardson & Bottomley (Shuttle Irons, etc.)
 WEST WAREHAM—*†§Tremont Nail Co.
 WHITINSVILLE—*†§Whitin Machine Works (Textile Machy.)
 *Whitinsville Spinning Ring Co.
 WHITMAN—*Pearson, Walter, & Co. (Machinist)
 WILLIAMSBURG—*Thayer Mfg. Co. (Small Tools, etc.)
 WINCHENDON—*†Alaska Freezer Co. (Ice Cream Freezers, etc.)
 *Goodspeed Machine Co. (Woodworking Machinery)
 *†§Hill & Bosley (Iron Founders)
 *New England Lock & Hinge Co.
 *†Whitney, Baxter D. & Son (Woodworking Machy.)
 WINCHESTER—*Whitney Machine Co. (Machinists)
 WOBURN—*Clemson, Francis W. (Curriers' Tools, etc.)
 *†§Smith & Wallace (Elec. R. R. Supplies)
 *†§Woburn Machine Co. (Machinists & Millwrights)
 WORCESTER—*Adams, John J. (Dies, Shoe Machy., etc.), 81 Mechanic
 *†American Steel & Wire Co. of New Jersey (See Chicago, Ill.)
 *†Ames Plow Co. (See Boston)
 †Arcade Malleable Iron Co. (Steel & Malleable Iron Castings), Washington sq

†Barr, H. G. (Drills, etc.)
 *Boynton & Plummer (Machine Tools, etc.)
 *Brown, Wm. H., Co. (Carders' Tools), 81 Mechanic
 *Brownell, G. L. (Spring Twisting & Spinning Machy., etc.), 49 Union
 *Burlingame, A., Co. (Steam Engines, etc.)
 †Cahill Mfg. Co. (Brass Fdrs. & Finishers)
 *COATES CLIPPER MFG. CO. (Sheep Clippers, Flexible Shafts, etc.) (See adv. index, end of book)
 *COES, LORING & CO., Inc. (Machine Knives, etc.) (See adv. index, end of book)
 *COES WRENCH CO. (Wrenches, etc.), Coes sq. (See adv. index, end of book)
 †Colvin, J. A. (Iron Fdry.)
 *†Crompton & Knowles Loom Works (Textile Machy.), Grand & Talnter
 *†Curtis & Marble Machine Co. (Textile)
 *Dawson Machine Co.
 *Desper, H. A., Co.
 *Dugar, Edclbert, 54 Herman
 *Eagan, Thomas F., Hardware Co., Blithe-wood av
 *Economic Machinery Co. (Label Machy.)
 *Elliot & Hall (Cloth Folders), 54 Hermon
 *Fairbanks, Geo. L., & Son, 166 Union
 *Gessner, David (Textile Machinery), 172 Union
 *Greendale Gas Engine Co. (Gas & Oil Engines), W Boylston & Fales
 *Hardy, L., Co. (Machine Knives, etc.)
 *Harrington & Richardson Arms Co. (Fire Arms, etc.), 320 Park av
 *Harris Car Co. (Automobile & Lunch Wagons)
 *Harwood & Quincy Machine Co. (Woolen Machines)
 *Heald Machine Co. (Machine Tools & Grinding Machy.)
 *Hobbs Mfg. Co. (Paper Box & Woodworking Machy., etc.)
 *†Holyoke Machine Co. (See Holyoke, Mass.)
 *Jacques, John & Son (Shears & Cord Cutting Machy.), 95 Webster
 *Johnson & Bassett (Wool Spinning Machines), 114 Foster
 *Kladder, R. E. (Envelope Machines, etc.)
 †Kindred & Taylor (Brass & Bronze Fdrs., etc.)
 *Knight, E. O. (Gas Engines, etc.), 86 Foster
 *Leland, Wm. H., & Co. (Crankshafts, etc.)
 *Lowell Wrench Co. (Ratchet Die Stocks, Drills, etc.)
 *Lombard Machine Co. (Woolen Machinery), 64 School
 *Luther, B. G. & Co. (Woodworking Machy., etc.), 91 Foster
 *Mason, Marcus & Co. (See New York City)
 *McMahon & Co. (Friction Clutches, etc.)
 *Matthews Mfg. Co. (Stove Trimmings & Bicycle Fittings, Ferrules, etc.), 104 Gold
 *Miller, Horatio L. (Card Grinders, etc.)
 *†Morgan Construction Co. (Wire & Rolling Mill Mach'y, etc.), 21 Lincoln
 *Morgan Spring Co. (Agl. & Mach'y Springs, etc.), W. Boylston, Barber's
 *Norton Grinding Co. (Grinding Wheels, Grinding & Polishing Machinery, etc.)
 *Parker, Jno. L., & Co. (Ferrules, etc.)
 †Pero Foundry Co., 23 Hermon
 *†Pond, L. W., Machine & Fdry. Co. (Grey Iron Castings, etc.)
 *Powell Tool Co. (Planers, etc.)
 *Prentice Bros. Co. (Machine Tools, etc.)
 †Reed Foundry Co., 667 Cambridge
 *Reed, Francis Co. (Upright Drills, etc.)
 *Reed, F. E. Co. (Machine Tools), 122 Gold
 *Reed & Prince Mfg. Co. (Machine Screws, etc.), Duncan av, nr Cambridge
 *Reed & Curtis Machine Screw Co., 108 Gold
 *†§Rice, Barton & Fales Machine & Iron Co. (Paper & Pulp Mill Machinery), 65 Tainter
 *†Richardson Mfg. Co. (Mowing Machines, etc.)
 *Robbins Machine Co. (Machinists' Tools, etc.)
 *Roy, B. S., & Son (Textile Machy., etc.)
 *Savels, O. M. & Co. (Dies, etc.), East Worcester
 *Sawyer, Thos. J., 47 Hermon
 Smith, Thos. & Co. (Bolts, Nuts, Link Chains, etc.)
 *Snyder, J. E. & Son (Machine Tools), 100 Beacon

†Standard Foundry Co. (Machy. Castings, etc.), Talnter & Gardner
 *Standard Plunger Elevator Co. (Elevator Builders, etc.)
 *Stockbridge Machine Co. (Shaping Machines, etc.), 3 Maud
 *Stoddard, Haserick, Richards & Co. (Textile Machy.)
 *§UNION WATER METER CO. (Meters, Regulators, etc.) (See adv. index, end of book)
 *W. & S. Mfg. Co. (Dies, etc.)
 *Walker Grinder Co. (Machine Tool Grinders, etc.), 25 Union
 *Walker, Oakley S., & Co. (Machine Tool Grinders, etc.), 25 Union
 †Wells Chemical Bronze Works (Brass, Copper, Tin, Zinc, Comp. & Bronze Castings), 219 Summer
 †Wheeler Foundry Co.
 *†Whitcomb-Balsdell Machine Tool Co. (Machine Tools, etc.), 134 Gold
 *†Whittle, Jas. H., Co. (Textile Machinery, etc.)
 *Windle, J. E. (Textile Machinery)
 *Winslow, Sam'l Skate Mfg. Co.
 *Woodward & Powell Planer Co. (Machine Tools, etc.), 99 Webster
 †Worcester Brass Co.
 *Worcester Electric Mfg. Co. (Electric Switches, etc.), 42 Lagrange
 *Worcester Lawn Mower Co. (Lawn Mowers, etc.), 108 Gold
 *Worcester Machine Screw Co. (Screws, Engine Studs, etc.), Albany & Muskego
 *†Worcester Plunger Elevator Co. (Elevator Builders, etc.)
 *Worcester Pressed Steel Co. (Stove Trimmings, Auto & Bicycle Parts, Ferrules, etc.), 100 Beacon
 *Worcester Textile Machine Co. (Textile Machinery)
 *Worcester Warp Compressing Machine Co.
 *Young Machine & Tool Co. (Machinists' Tools, etc.)
 *Young Machine & Tool Co. (Lathes, Shears, etc.)
 WRENTHAM—*Winter Bros. Co. (Taps & Dies, etc.)

MICHIGAN.

ADRIAN—†Adrian Steel Casting Co. (Light Crucible Steel Castings, etc.)
 *Babcock Planter Co. (Corn Planters)
 *Bond Steel Post Co. (Steel Posts, etc.)
 *§Bredon, Jacob
 *Church Bros. (Pumps, Gas Engines, etc.)
 *†Ideal Fence Co. (Brick Making Machinery)
 *†§Kells Foundry & Machine Co. (Brick & Drain Tile Machy., etc.)
 *Page Fence Gas Engine Co.
 †Pine Woven Wire Fence Co.
 *Riverside Co. (Dairy & Cheese Machy.)
 ALBA—*Jones, W. E. (Machinist)
 ALBION—†Albion Malleable Iron Co. (Agl. Impls. & Carriage Castings)
 *†Cook Mfg. Co. (Gas & Gasoline Engines)
 *†Gale Mfg. Co. (Agl. Impls., etc.)
 *Prouty, T. C. Co. (Ltd.) (Door Hangers, etc.)
 ALMA—*Alma Mfg. Co. (Gasoline Engines, etc.)
 *Montingel, J. M. (Agricultural Implements, etc.)
 ALMONT—*†Lee, Robert E.
 ALPENA—*§Hanson, Andrew
 *†Kline, Lewis T. (Excelsior Machines, Baling Presses, Automatic Lathes, etc.)
 ANN ARBOR—*†Ann Arbor Machinery Co. (Agl. Impls., Hay Presses, etc.)
 BATTLE CREEK—*†Advance Pump & Compressor Co. (Steam Pumps)
 *†Advance Thresher Co. (Agl. Impls., etc.)
 *†§American Steam Pump Co. (Steam Pumps, etc.)
 *Bown Machine Co. (Lathe, Planer & Shaper Tool Holders)
 *†Brennan, John & Co. (Bollers, etc.)
 *†§Duplex Printing Press Co. (Printing Machinery)
 *§Globe Mfg. Co. (Nebulizers, Elec. Air Pumps, Comp. Air Vibrators, etc.)
 *†Nichols & Shepard Co. (Agl. Impls.)
 *Prims Machy. Co. (Bakers' Machinery, etc.)
 *Ritchie, Gavin & Sons (Grease Cups)
 *§Sherman, H. B., Mfg. Co. (Brass Fdrs. & Finishers)
 *†§Union Steam Pump Co. (Steam Pumps, etc.)
 *†United States Register Co. (Hot Air Registers)
 BAY CITY—*†§Ray City Iron Co.
 *Emery & McKerrlie (Cement Brick Machy.)
 †Excelsior Foundry Co.

***Garland, M., Co.** (Saw Mill & Salt Well Mach'y, Steam Engines, Iron Fd'rs., etc.)
 ***Industrial Works** (Industrial Cars, Cranes, Rail Drills, Shop Saws, etc.)
McCartney, Josiah (Brass Fdry. & Finisher)
 ***MACKINNON BOILER & MACHINE CO.** (Machinery & Brass & Iron Castings, etc.) (See adv. index, end of book)
 ***Marine Iron Co.** (Mining Mach'y, Hoisting Engines, Iron Fd'rs., etc.)
 ***National Cycle Mfg. Co.** (Bicycles)
BELDING—Bailou Mfg. Co. (Gas & Gasoline Engines, etc.)
BENTON HARBOR—Baute, Henry
 †**Benton Harbor Malleable Foundry Co.** (Malleable Iron Castings & Journal Boxes)
 ***COVEL MFG. CO.** (Saw Sharpening & File Room Mach'y.) (See adv. index, end of book)
 ***Metal Sectional Furniture Co.** (Metal Furniture, Computing Machines, etc.)
 ***Rosback, Frederick P., Co.** (Printers' & Bookbinders' Machinery, etc.)
BIG RAPIDS—Hanchett Swage Works (Filing Room Outfits)
 †**Hanchett Hot Blast Grate Co.**
BLAINE—Fair, Geo. & Sons, (Plows)
BLISSFIELD—Blissfield Motor Works (Motors, Drills, Tilting Vises, etc.)
 †**Davenport, Harry C.**
BOYNE CITY—B. C. G. & A. R. R. Co.
 †**White, W. H., Foundry Co.**
BROWN CITY—McKnight, Jno. J.
BUCHANAN—Black, Geo. H. (Garden Plows)
 ***Lee & Porter Mfg. Co.** (Carriage Axles, etc.)
BURR OAK—Sheffield Mfg. Co. (Corn Planters)
BUTTERNUT—Isham-Miller Co. (Road Culverts, etc.)
CADILLAC—Cadillac Machine Co.
CALUMET—Calumet & Hecla Minng Co.
CAMDEN—Baker, L. S.
CARO—Riddle, Frank D. (Machinist & CARSON CITY—Waters, J. T. Foundry)
CHARLEVOIX—Washburn, O. S., & Son
CHARLOTTE—Beach Mfg. Co.
 ***Hancock Mfg. Co.** (Automatic Oilers, etc.)
 †**Knight-Brinkerhoff Piano Co.**
 †**McNaughton Foundry Co.**
CHEBOYGAN—Blake, H. A., & Son (Brass & Iron Foundry)
 ***Smith's, Thompson, Sons**
CHELSEA—Chelsea Stove & Mfg. Co. (Oil & Gas Stoves, etc.)
CLARE—Clare Furnace Co. (Furnaces & Machinery)
COLDWATER—Champion Brass Works (Brass & Aluminum Castings, etc.)
 ***Loring, Sanford** (Machinist)
 ***Regal Gasoline Engine Co.**
 †**Titus, Thurlow** (Iron Fdry.)
COMSTOCK—Comstock Mfg. Co. (Steam Engines & Power Transmitting Mach'y.)
 ***Davis, W. T., & Co.**
COOPERSVILLE—Root, G. L., Co.
 †**Acme Foundry Co.** (Iron Fd'rs., Gray Iron Castings, Isabella & Michigan avs
 †**Allyne Brass Foundry Co.** (Brass Fd'rs. Finishers, etc.), 777 Bellevue av
 ***American Blower Co.** (Engines, Blowers, Fans, etc.)
 ***American Brass & Iron Co.**, Trombley av. & Crystal
 ***American Bridge Co.** (See Pittsburg, Pa.)
 ***American Car & Fdry. Co.**, 443 Ferry. (See St. Louis, Mo.)
 ***American Electrical Heater Co.** (Elec. Heating Appliances), 121 State
 ***American Harrow Co.** (Agl. Implementations), 1486 Hastings
 ***American Injector Co.** (Injectors, Lubricators, etc.)
 ***American Lubricator Co.** (Lubricators & Brass Fd'rs. & Finishers, etc.)
 ***American Machine Mfg. Co.** (Trucks, etc.), Champlain & Beaubien
 ***Anderson Filter & Machine Co.** (Small Tools & Filters), 814 Jefferson
 †**American Radiator Co.**
 †**American Vapor Stove Co.**, 18 E. Atwater
 ***Art Stove Co.** (Stoves, etc.), 1555 Russell
 ***Austin Separator Co.** (Steam & Oil Separators, etc.), 55 W. Woodbridge
 ***Auto Accessories Mfg. Co.**, 144 Congress
 ***Baird & Henselwood Machine Co.** (Pharmaceutical Mach'y., etc.), 11 Raynor
 ***Baker-Churchill-Lee Co.** (Pneumatic Tools, Injectors, Valves, Motors, etc.), 907 Michigan av

***Bellevue Mfg. Co.** (Cement Shingle Machinery), 343 Bellevue av
 ***Bolles, J. E., Iron & Wire Works**, 4th av. and Porter
 ***Briscoe Mfg. Co.** (Machinists)
 ***Bryant-Berry Co.** (Brass Founders, etc.), 32 Atwater, W.
 ***Buhl Malleable Co.** (Elevating & Conveying Machinery, Gray & Malleable Iron Castings, etc.)
 ***Burroughs Adding Machine Co.** (Adding Machines)
 ***Byram & Co., Inc.** (Foundry Machinery, Cars, Cranes, Tumbling Barrels, etc.), 435 Guoin
 ***Cadillac Motor Car Co.** (Automobiles & Grey Iron Castings)
 ***Caille Bros. Co.** (Coin Operating Machines), 1300 2d av
 †**Capitol Brass Works** (Valves, Brass Fd'rs. & Finishers, etc.)
 ***Cement Working Machinery Co.**, 105 Catharine
 †**Central Foundry Co.** (Grey Iron Fd'rs., etc.), 195 Atwater
 ***Chicago Pneumatic Tool Co.** (Boyer Branch, Pneumatic Tools), 1301 2d av
 ***Clayton & Lambert Mfg. Co.** (Plumbers' & Tinnners' Tools), Trombly av. & Beaubien
 ***Colton, Arthur, Co.** (Pharmaceutical & Special Light Mach'y.), 184 Brush
 †**Co-operative Foundry Co.** (Castings for Water, Gas & Chemical Works, etc.)
 †**Cope Pattern Works**, 30 Brush
 †**De Luxe Motor Car Co.**, 1284 W. Jefferson av
 ***Detlaff, Anthony J.**, 121 Champlain
 †**Detroit Alloy Castings Co.**, 332 W. Jefferson
 †**Detroit Bath Tub & Brass Mfg. Co.**, 93 W. Baltimore av
 ***Detroit Brass Works** (Cocks, Valves, etc.)
 ***Detroit Edge Tool Works** (Edge Tools, etc.), Wight & Mt. Elliott av
 ***Detroit Emery Wheel Co.** (Grinding Mach'y., etc.), Jefferson & Field avs
 ***Detroit Engine Works** (Engines, etc.), 1250 Jefferson av
 ***Detroit Heating & Lighting Co.** (Steam Heating Apparatus, Gas Machines, etc.), Wight & Leib
 ***Detroit Lubricator Co.** (Lubricators & Steam Separators)
 ***Detroit Machine & Mfg. Co.**, 64 2d av
 ***Detroit Meter Co.** (Gas Meters, etc.), 206 W. Larned
 ***Detroit Motor Casting Co.** (Auto Brass Goods & Power Boats), 299 Beaufait av
 †**Detroit Register Co.** (Hot Air Registers & Hd'w. Specialties), 66 State. Works: Milan, Mich.
 ***Detroit River Iron Works** (Steam & Gas Engines), 665 E. Atwater
 ***Detroit Sanitary Supply Co.**, 1191 2d av
 ***Detroit Screw Works** (Screws & Special Machinery), 346 Franklin
 ***Detroit Shipbuilding Co.** (Iron & Steel Ships, Marine Engines & Iron & Brass Founders & Finishers), ft Orleans
 ***Detroit Steam Engine Co.** (Steam Engines, etc.), 15 Gillman
 †**Detroit Steel Casting Co.** (Steel Castings), 1245 Michigan av
 ***Detroit Stoker & Foundry Co.** (Light & Heavy Grey Fd'rs., Automobile Stoker, etc.), 2642 E. Grand boul
 ***Detroit Stove Works** (Stoves, Ranges, etc.), 1328 Jefferson av
 ***Detroit Twist Drill Co.** (Twist Drills, Chucks, Reamers, etc.), 646 W. Fort
 ***Detroit Valve & Mfg. Co.**, 284 Rivard
 †**Detroit Vapor Stove Co.**, 411 Franklin
 ***Diamond Stove Co.** (Stoves, etc.), 100 Larned
 ***Dodge Bros.** (Special Mach'y.), 234 Monroe av
 ***Du Brie Motor Co.** (Marine & Stationary Engines), 436 Guoin
 ***Dutton, J. B.** (Scales, etc.), 1026 Scotten av
 ***Eagle Brass Works** (Plumbers' Brass Goods, etc.)
 †**Eclipse Foundry Co.** (Aluminum Castings), 307 Crawford av
 ***Eclipse Mfg. Co.** (Tools, Dies & Gears, etc.), 47 Fort, E
 ***Ellis-Ford Mfg. Co.** (Pipe Cutters)
 †**Enterprise Foundry Co.** (Light Grey Iron Castings), 1127 Warren av
 ***Essex, G. B., Brass Co.** (Lubricators & Brass Founders & Finishers), 482 Franklin

†**Eureka Mfg. Co.** (Manhole Doors, etc.), 173 Sylvester
 ***Fisher Electrical Works** (Dynamos & Motors), 183 W. Larned
 ***Fuller Co.** (Engines & Electric Ventilating Apparatus, etc.), 1566 Russell
 ***Galvin Brass Co.** (Valves, Carbureters, etc.), 74 E. Fort
 ***Gies Gear Co.** (Transmission Gears), 345 Bellevue av
 †**Graebert & Purdie** (Brass Fd'rs. & Finishers), 12 Sherman
 ***Great Lakes Engineering Works** (See Ecosse, Mich.), 308 Atwater
 †**Griffin Wheel Co.** (See Chicago, Ill.)
 †**Hackett Bros.**, 240 Lillibridge av
 †**Hardoin, Nicholas, Brass Co.** (Brass Founder & Finisher), 132 E. Larned
 †**Harvey's, A., Sons Mfg. Co.** (Steam Heating Apparatus, etc.)
 ***Heath Electric Co.** (Electric Bells & Elec. Specialties), 336 Grand River av
 ***Hill, Robert S.** (Marine Engines, etc.), 24 E. Woodbridge
 ***Huetteman & Cramer Co.** (Brewers' & Refrigerating Mach'y., etc.), 666 Mack av
 ***Ideal Furnace Co.** (Furnaces, Registers, Heating Specialties, etc.), 66 State
 †**Ideal Mfg. Co.** (Gas Ranges, Plumbers' Brass Goods & Iron & Brass Founders), 570 Franklin
 ***Inglis, Wm., Wire & Iron Works**, 59 Woodbridge, E
 †**Ireland & Matthews Mfg. Co.** (Plumbers' Specialties, Stove Trimmings, Saddlery, Hd'w., etc.), Wright & Mt. Elliott
 ***Jefferson Iron Works Co.** (Engines, Crushers, etc.), 7 Jefferson av
 ***Jenks & Muir Mfg. Co.** (Brass & Iron Bedsteads)
 †**Johnston, Frederick G.**, 56 2d av
 ***Kahl, Fred'k** (Iron Fdry. & Machinist), 14 St. Aubin av
 ***Kennedy & Greig Co.** (Machinists & Brass Fd'rs.), 211 2d
 ***Lamont & Steers Engine Co.**, 1470 Jefferson av
 ***Lauer, Jno., Machine Co.** (Crankshafts & Special Mach'y.), 110 St. Antoine
 ***Lauhoff Bros.** (Flour Mill Mach'y.), 35 Chene
 ***Lavigne Mfg. Co.** (Lubricators, Valves, Oilers, etc.)
 ***Liebig, Wm., & Co.** (Brush Mach'y.), 14 Macomb
 ***Lloyd Construction Co.** (Gas Works Machinery), 860 Greenwood
 ***McDonough Automatic Regulator Co.**, 302 Grand River av
 ***McCRAE & ROBERTS CO.** (Brass Fd'rs. & Steam & Plumbing Brass Goods, etc.), 227 Campbell av. (See adv. index, end of book)
 ***Mead & Co.** (Machinists), 19th & Newark
 ***Mead & Co.** (Machinists), 19th & Newark
 †**Michigan Aluminum Foundry Co.** (Aluminum Castings), 14 Post
 ***Michigan Auto Parts Co.** (Gasoline Engines, etc.)
 ***Michigan Copper & Brass Co.** (Brass Goods, etc.), 1610 Jefferson av
 †**Michigan Crucible Steel Castings Co.** (Crucible Steel Castings)
 †**Michigan Grey Iron Casting Co.**, Harbaugh av & Wabash R R
 ***Michigan Lubricator Co.** (Lubricators, etc.), 661 Beaubien
 ***Michigan Malleable Iron Co.** (Malleable Iron Castings, etc.), Crossley & Anderson avs
 ***Michigan Sprocket Chain Co.** (Conveyors, Sprocket Wheels)
 ***Michigan Stove Co.** (Stoves & Ranges, "Garland"), 1022 Jefferson av
 ***Middleditch, Benjamin** (Sprue Cutters, etc.), 97 Meldrum av
 ***Modern Motor & Machine Co.** (Gas & Marine Engines, etc.), 958 Jefferson av
 ***Monarch Foundry Co.**, 895 Greenwood av
 †**Monarch Steel Casting Co.** (Steel Castings, Car Couplers, etc.)
 ***Morehead Mfg. Co.** (Steam Traps & Plumbers' Specialties), 1041 Grand River
 ***Mouat, John D., Co.**, 48 Porter av
 ***Mueller, Chas. R., & Sons**, 75 Shelby
 ***Murchey Mach. & Tool Co.**, 4th & Porter
 ***MURCHEY MACHINE & TOOL CO.** (Pipe Cutting, Threading & Tapping Machines, etc.), 52 Porter, c 4th av. (See adv. index & branch offices, end of book)
 ***Murphy Iron Works** (Smokeless Furnaces), ft of Walker

- *Murray Automatic Boiler Feed Co. (Boiler Feeders, etc.), 807 Scotten av
 *National Fulton Brass Mfg. Co. (Brass & Bronze Castings, Bearings, etc.), 28 Brush
 *New Process Refrigerating Machine Co. (Ice & Refrigerating Machines)
 *NORTHERN ENGINEERING WKS. (Foundry Equipment, Cranes, Hoists, etc.), 9 Chene (See adv. index, end of book)
 *Northway Motor & Mfg. Co. (Gas & Gasoline Engines, Axles, etc.)
 *Oelman, Curt (Dough Mixing & Macaroni Machy., etc.), 226 St. Antoine
 *Osborn, F. C. Co. (Special Machy.), 67 Larned, W
 *Osburn Electric Co. (Brass Castings & Electrical Specialties), 66 Fort
 *P. R. Mfg. Co. (Electr'l & Hdwe. Specialties, etc.), 621 Bellevue av
 *Palmer-Bee Co. (Engineers & Machinists for Power Transmission, etc.)
 *Pelton & Crane (Elec. Specialties), 11 Raynor
 *Penberthy Injector Co. (Engineering & Steam Specialties, etc.), 346 Holden av
 *Peninsular Brass Works
 *Peninsular Emery Wheel Co. (Emery Wheels & Emery Wheel Machy.), 253 Meldrum
 *Peninsular Stove Co. (Coal & Gas Stoves, Ranges & Furnaces)
 *Railway Steel Spring Co. (See New York City)
 *Rice, D. E. (Fdrs. Machinist, Combined Pump & Heater, etc.), 193 Atwater
 *Roberts Brass Mfg. Co. (Plumbers' Brass Goods, etc.)
 *Rogers, C. T. & R. R., Co. (Milk Condensing Machinery, etc.), 34 Chope pl
 *Ross & Young Machine Co. (Dies & Tools, etc.), 9 Center
 *Rousseau, F. X., Machinery Co., 564 Porter
 *RUSSEL WHEEL & FOUNDRY Co. (Cranes, Cars, Wheels, Car Trucks, Castings, etc.) (See adv. index, end of book)
 *Safety Folding Bed Co., 13 Wildman pl
 *Schwarz Foundry Co., 613 Fort
 *Scully, W. J., Ventilator & Mfg. Co. (Plumbers' Brass Goods)
 *Sherwood Brass Works (Brass Finishers, etc.), 1167 Jefferson av
 *Sibley-Houfley Machine Co. (Gas Engines, Special Machy., etc.), 180 Brush
 *Smith, Jos. N. & Co. (Brass Finishers & Platers, Automobile & Bicycle Works, etc.), 52 Porter
 *Smith, Peter, Heater Co. (Car Heaters, etc.), 328 Rivard
 *Standard Brass Works (Brass Founders, etc.), 528 E Woodbridge
 *Standard Computing Scale Co. (Computing Scales), 153 E. Fort
 *Standard Foundry Co. (Iron Fdrs. & Heaters, etc.), 22 Chene
 *Stecker Electric & Machine Co.
 *Stephens, Roe Mfg. Co. (Brass Fdrs., Finishers & Steam Brass Goods, etc.)
 *Sterling & Skinner Mfg. Co. (Brass Fdrs & Finishers & Steam Brass Goods)
 *Stimpson, W. F., Co. (Computing Scales)
 *Strelinger Marine Engine Co. (Marine Engines), 46 Congress
 *Tessmer Machine & Tool Co., 285 Rivard
 *Trio Mfg. Co. (Brass Auto Parts, etc.), 60 W. Woodbridge
 *United States Heater Co. (Steam & Hot Water Heaters, etc.), 257 Campbell av
 *VOELKNER & HARRY MANUFACTURING Co. (Hardware & Brass Goods), 123 W Woodbridge. (See adv. index, end of book)
 *Walz, Christopher, 278 Division
 *Watson, Nelson M. (Machinery Specialties), 4 Park pl
 *Western Malleable Steel Co. (Grey Iron & Mal. Steel Castings)
 *Whitehead & Kales Iron Works (Iron Fdrs. & Steel Structural Work), M. C. R. R. & Beecher av
 *Winkley Co., 866 W. Warren av
 *Wolverine Foundry Co. (Grey Iron Castings), 936 Bellevue av
 *Woodbridge Machine Works (Special Machinery, etc.), 129 Brush
 *Wright Mfg. Co. (Steam Traps & Steam Specialties), 59 W Woodbridge
 DOWAGIAC—*Peckwith, P. D. (Inc.) (Stoves, Heaters, etc.)
 *Dowagiac Mfg. Co. (Agl. Impls., Seeding Machinery, etc.),
 EAST JORDAN—*Malpass Bros.
 EATON RAPIDS—*Eaton Rapids Foundry Co. (Furnaces, etc.)
 ECORSE—*Great Lakes Engineering Works
 ESCANABA—*Chatfield Brass & Iron Works
 EVART—*Champion Tool & Handle Co. Co.
 *Evert Tool Co. (Lumbering Tools, etc.)
 *West, C. E.
 FENTON—*Walker Mfg. Co. (Pumping Engines & Castings, etc.)
 FLINT—*Buick Motor Co. (Gas & Gasoline Engines, etc.)
 *Cook Car Journal Cooler Co.
 *Flint Axle Works (Axles, etc.)
 *Genesee Iron Works (Iron Fdrs.)
 *Peerless Heater & Valve Co. (Valves, Heaters, etc.)
 FRANKFORT—*Markham, F. E.
 GLADSTONE—*Marble Safety Axe Co.
 GRAND HAVEN—*Challenge Machinery Co. (Printing Presses, etc.)
 *Dake Engine Co. (Pneumatic Cranes, Hoists & Motors, Stearing Gears, etc.)
 GRAND LEDGE—*Streeter, Hiram B.
 GRAND RAPIDS—*American Seating Co. (See Chicago, Ill.)
 *Atwood Brass Works
 *Austin & Son (Saw Mill Mach'y, etc.)
 *Baldwin, Tuthill & Bolton (Saw Mill Mach'y, etc.)
 *Butterworth & Lowe, Inc. (Iron Fdrs. & Mfrs. of Woodworking Mach'y)
 *Crescent Machine Works (Edw. Tanne-witz, Prop.), (Fdry. & Machinist)
 *Dodds, Alex. (Woodworking Mach'y, etc.)
 *Edge, Frank & Co. (Saws & Saw Machy.)
 *Elliott Machine Co.
 *Fox Machine Co. (Woodworking Machy., etc.)
 *Friction Set Works Co. (Sawmill Machinery), 240 S Front
 *Gillette Roller Bearing Co. (Vehicle Roller Bearings)
 *Globe Vise & Truck Co. (Vises, etc.)
 *Grand Rapids Brass Co. (Brass Fdrs. & Finishers)
 *Grand Rapids Foundry Co. (Iron Fdrs. & Steel Plate Chutes, etc.)
 *Grand Rapids Furnace Co.
 *Grand Rapids Gas Engine & Yacht Co. (Gas Engines & Yachts)
 *Grand Rapids Hdw. Co. (Sash Pulleys & Hdw. Specialties)
 *Grand Rapids Malleable Co.
 *Grand Rapids Stove Co. (Casters, Gasoline Stoves, etc.)
 *Haney School Furniture Co.
 *Hartman, Henry J., Foundry Co.
 *Ideal Foundry Co.
 *Keeler Brass Co. (Brass Fdrs. & Finishers, etc.)
 *Knappe, Jno. Machine Co. (Machinists)
 *Leitelt, Adolph, Iron Works (Iron Fdry. & Builders' Iron Work, etc.)
 *Michigan Wheel Co. (Propeller Blades, Marine Gears, etc.)
 *Miller Furnace Co. (Furnaces)
 *Munson Co. (Edge Tools, etc.)
 *Oliver Machinery Co. (Woodworking & Pattern Shop Machinery)
 *Perkins & Co. (Shingle Mill Machy., Gas Engines, etc.)
 *Porter, C. O. & A. D. (Woodworking Machinery, etc.)
 *Rapid Heater Co. (Hot Water Heaters, etc.)
 *Remps & Gallmeyer Foundry Co. (Iron & Brass Fdrs. & Concrete Machy.)
 *Rhodes Mfg. Co. (Hot Air Furnaces)
 *Vulcan Foundry Co. (Boilers, Pipes, Fittings, etc.)
 *West Michigan Machine & Tool Co. (Machinists)
 *West Side Iron Works
 *Wilmarth & Morman Co. (Drill Grinders)
 *Wolverine Brass Works (Brass Fdrs. & Finishers)
 GREENVILLE—*Gordon Hollow Blast Grate Co. (Grate Bars & Woodworking Machinery)
 *Greenville Implement Co. (Plows & Implements)
 *Moore Plow & Implement Co. (Agl. Impls., Plows, etc.)
 *Tower, R. J., Iron Works (Mfrs. Machinery)
 HANCOCK—*Hodge Iron Co.
 *Portage Lake Foundry & Machinery Co. (Mining Machinery, Castings, Chilled Car Wheels, etc.)
 *Ward & Williams
 HARBOR BEACH—*Paddock & Lermont
 HARBOR SPRINGS—*Shay, E. & Son (Machinists, etc.)
 HASTINGS—*Consolidated Press & Tool Co. (Power Presses)
 HILLSDALE—*Alamo Mfg. Co. (Gas & Gasoline Engines, etc.)
 HOLLAND—*Buss Machine Works (Machinists)
 *Holland Furnace Co.
 *Huntley, Alfred (Machinist)
 *Western Machine Tool Works (Machine Tools)
 HOLLY—*McGonegal & Son
 HOUGHTON—*Carroll Foundry Co.
 HUDSON—*Abbott & Co. (Carriage Bldrs.)
 *Abbott Voting Machine Co. (Machinery)
 *Hardie Mfg. Co. (Painting & Spraying Machines)
 *Hazen Mfg. Co. (Pumps, etc.)
 *Hudson Mfg. Co. (Plows, Bicycles, etc.)
 *Lane, N. (Machinist)
 IMLAY CITY—*Parker, Eli F.
 IONIA—*Arnold's, G. W., Son (Agl. Implements, Castings, etc.)
 *Stafford, E. H., Mfg. Co.
 ISHPEMING—*Walseth, Ole
 JACKSON—*Aspinwall Mfg. Co. (Potato Machinery, Planters, Diggers, etc.)
 *Blessing, Louis (Flour Mill & Paper Box)
 *Buick Motor Co. (See Flint) Mach'y, etc.)
 *Butcher & Gage
 *Cement Machy. Co. (Concrete Bldg. Block Machy. & Devices)
 *Clark, E. C., Motor Co. (Motors, etc.)
 *Cobb, Wm.
 *Coltrin, R. B., Mfg. Co. (Cement Moulding Machinery)
 *Dennis Machine Co. (Iron Fdrs., Wood Working Machinery, etc.)
 *Field-Brundage Co. (Gasoline Engines & Motors)
 *Frost Gear & Machine Co. (Gears, Pinions, etc.)
 *Hartwick Machine Co.
 *Holton & Weatherwax Co. (Ltd.) (Iron Fdrs. & Machinists)
 *Hutchinson, Jno. Mfg. Co. (Corn Shellers, Feed Mills, Carriage Axles, etc.)
 *Knickerbocker Co. (Flour Mill & Cement Machy.)
 *Lewis Spring & Axle Co. (Axles, Springs, etc.)
 *Lusk Foundry Co.
 *Miles, P. B., Mfg. Co. (Concrete Bldg. Block Machines)
 *Novelty Mfg. Co. (Stoves, Hot Air Registers)
 *Sanford, James A.
 *Stringer Machine Co. (Cement Mach'y)
 *Walcott & Wood Machine Tool Co. (Machine Tools, Lathes, etc.)
 KALAMAZOO—*Bennett & Co. (Cigar Vending Machines)
 *Blood Bros. Machine Co. (Auto Specialties)
 *Burt Mfg. Co. (Gasoline Engines, Tire Setters, etc.)
 *Clarage Fdry. & Mfg. Co.
 *Clarage, Thos., & Son (Dynamos & Motors, etc.)
 *Clark Engine & Boiler Co. (Steam Engines, etc.)
 *Cook's Standard Tool Co. (Railway & Auto Appliances, etc.)
 *Dutton, C. H. Co. (Steam Engines, etc.)
 *General Gas Light Co. (Gas Lighting Appliances)
 *Harrow Spring Co. (Harrow Springs & Teeth, etc.)
 *Henderson-Ames Co. (Regallas, etc.)
 *Hill, W. E. & Co. (Saw Mill Machinery, Pumps, etc.)
 *Humphrey Co. (Instantaneous Water Heaters, etc.)
 *Kalamazoo Fdry. & Machine Co. (Dynamos & Motors, etc.)
 *Kalamazoo Machine & Tool Co.
 *Kalamazoo Railway Supply Co. (Hand & Motor Cars & Railway Supplies, etc.)
 *Kalamazoo Spring & Axle Co. (Carriage Springs & Axles, etc.)
 *Kalamazoo Stove Co. (Stoves, etc.)
 *National Gas Light Co. (Gas & Electric Fixtures, etc.)
 *Newton Steel Wheel Co. (Steel Buggy Wheels, etc.)
 *Phelps & Bigelow Windmill Co. (Windmills, Pumps, etc.)
 *Reed Mfg. Co. (Agl. Impls. & Crucible Steel Castings)
 *Riverside Foundry Co. (Iron Fdrs.)
 *Schau, Wm.
 *Smith & Pomeroy Windmill Co. (Wind Mills, Feed Mills, etc.)
 *Star Brass Works (Brass Castings, Trolley Wheels, etc.)
 KALKASKA—*Johnson, E. F. Cycle Works.
 LANSING—*Automatic Sales Co. (Gum Vending Machines)
 *Bates & Edmonds Motor Co. (Gas & Gasoline Motors)
 *Bellfuss Motor Co. (Gas, Gasoline, Stationary & Automobile Engines)
 *Bement Co. (Stoves, Ranges, etc.)
 *Bidwell, C. H. Thresher Co. (Beam Threshers, etc.)
 *Bryan Machine Co. (Threshers, etc.)

†Capitol Casting Co. (Grey Iron Castings, Specialty Gas Engine Castings)
 †Garner Heating Co. (Hot Air Furnaces)
 *†Gerson-Carey Co.
 *†Hidreth Mfg. Co. (Motors & Pumps)
 *†Ideal Motor Co. (Windmills, Pumps, Tanks, Motors, etc.)
 *†Jarvis Engine & Machine Works. (Engineers, Fdms. & Machinists)
 *Lansing Motor & Pump Co. (Gasoline Motors, etc.)
 *†Lansing Wheelbarrow Co. (Car Wheels, Mining Cars, etc.)
 †Michigan Brass & Iron Works (Aluminum, Brass & Grey Iron Castings, etc.)
 *New-Way Motor Co. (Gas & Gasoline Engines)
 *†Olds Gas Power Co. (Gas & Gasoline Engines)
 *†Olds Motor Works (Automobiles, Motors & Gas Engines)
 *Olds, W. S. (Gasoline Engines, etc.)
 *Omega Separator Co. (Cream Separators, etc.)
 *†Peerless Motor Co. (Gas & Gasoline Engines, etc.)
 *Prudden, W. K. & Co. Inc. (Automobile Wheels, etc.)
 Rork, J. & Bro. (Windmills, etc.)
 LAPEER—†Bostick Stove Co. (Stoves & Castings)
 *†McDonald's, Wm. Sons (Steam Engines)
 LAURIUM—†Macauley, John A.
 LINDEN—†Linden Foundry Co.
 LOWELL—*Lowell Specialty Co. (Hardware Specialties, etc.)
 LUDINGTON—*Industrial Iron Works
 MANCERONA—*Eclipse Motor Co. (Gasoline Engines)
 MANISTEE—*†Manistee Iron Works Co. (Saw Mill Machinery, Steam Engines, Iron Foundry, etc.)
 MARCELLUS—*†Chapman Forge & Engine Works
 MARINE CITY—*†Marine City Engine & Boiler Co.
 MARQUETTE—*†Lake Shore Engine Works (Marine & Stationary Engines, Iron Fdms.)
 MARSHALL—†Dobbins Furnace Co. (etc.)
 *†Lambert Food & Machine Co. (Coffee & Butternut Mach'y., etc.)
 *†Marshall Furnace Co. (Hot Air Furnaces)
 †New Process Steel Co. (Steel Castings, Gears, Crankshafts, etc.)
 MASON—†Fingerle, Jno. C. (Iron Fdry.)
 MAYVILLE—*†Johnson, Wm. J.
 *Markham, Geo. B.
 MENOMINEE—*Dudley Tool Co. (Tools, Wrenches & Bicycle Specialties)
 *Gram, Andrew
 *Henes & Keller Co. (Air Pumps, Brass Fdms., etc.)
 *Lloyd Mfg. Co. (Automatic Mach'y., etc.)
 *†Prescott Co. (Saw Mill & Mining Machinery, Iron, Steel & Brass Castings, etc.)
 MIDLAND—*†Dent, Jno.
 MILAN—*†Detroit Register Co. (Hot Air Registers & Hardware Specialties)
 *†Lamkin, W. P.
 MILLINGTON—†Beach, H. A. & Son (Agrl. Impls.)
 MONROE—*†Monroe Fdry. & Furnace Co. (Hot Air Furnaces & Castings, etc.)
 *†Wilder-Strong Implement Co. (Agrl. Implements, etc.)
 MONTAGUE—*†Montague Iron Works Co. (Fdms. & Machinists, Steam Engines, etc.)
 MORENCI—*Hill Bros.
 *†Michigan Brick & Tile Machine Co. (Brick & Tile Machinery & Iron Founders)
 MOUNT CLEMENS—†Donaldson Bros. (Agrl. Implements, Plows, Cultivators, Harrows, etc.)
 *Phillips & McCreedy
 MOUNT MORRIS—*†Hughes, Jno.
 MOUNT PLEASANT—*†Gorham Bros. Co.
 MUSKEGON—*American Electric Fuse Co. (Electric Specialties, etc.)
 *Barcus Bros. (Saw Mrs., etc.)
 *Russ Mach'y Co. (Machinists)
 †Clover, Chas. S. (Iron Fdry.)
 *Continental Motor Mfg. Co. (Marine Motors, etc.)
 *Enterprise Brass Works (Frank Holt, Prop.), (Brass Castings & Launch & Engine Trimmings)
 †Enterprise Foundry Co. (Machinery Castings, etc.)
 *Linderman Machine Co. (Woodworking)
 *†Prins Foundry & Mfg. Co. (Machinery)
 *†Racine Boat Mfg. Co. (Launches, Engines, etc.)
 *†Rodgers Iron Mfg. Co.
 *Shaw Electric Crane Co. (Main Office, New York City)

†Standard Malleable Iron Co. (Malleable Iron Castings)
 MUSKEGON HEIGHTS—*†Morton Mfg. Co. (Machine Tools)
 NASHVILLE—*Taylor, John E.
 NILES—*†Garden City Fan Co. (Iron Founders & Blowers, Fans, etc.)
 †Niles Steel Tank Co.
 *†Welling, A. W.
 NORTHVILLE—*†American Bell & Foundry Co.
 *Stimpson Scale & Mfg. Co. (Wagon, Platform & Truck Scales)
 OWOSSO — †Independent Stove Co. (Stoves, Ranges, etc.)
 Owosso Mfg. Co. (Screens, Tools, etc.)
 *†Steggall, Arthur.
 OXFORD—*Wemp, Ernest E., & Co.
 PAW PAW—†Snow Bros.
 PETOSKEY—†Blackmer Pump, Power & Mfg. Co. (Rotary Pumps, etc.)
 *†Burnett Foundry & Machine Co. (Ltd.) (Marine Gasoline Engines, etc.)
 †Middleditch, P.
 PINE RUN—*†Tinker, Wm. & Son.
 PLYMOUTH—*†Daisy Mfg. Co. (Air Rifles)
 *†Hamilton, C. J. & Son Mfg. Co. (Rifles, Guns, etc.)
 *†Hamilton Rifle Co. (Air Rifles)
 *Markham Air Rifle Co.
 *†Markham Mfg. Co. (Air Rifles)
 PONTIAC—*†Hess Pontiac Spring & Axle Co. (Spring, Axles, etc.)
 *†Howland, E. & Sons (Founders & Machinists)
 *Pontiac Spring & Wagon Works (Wagon Springs, etc.)
 PORT HURON—*†Draper Mfg. Co. (Valve Facing Tools, etc.)
 *Dry Dock Iron Works
 *†Grand Trunk Ry. Shops
 *†Port Huron Construction Co. (Bridge & Structural Steel Work)
 *†Port Huron Engine & Thresher Co. (Agricultural Implements, Traction Engines, etc.)
 †Rudge, Jno. (Est. of)
 *†South Park Mfg. Co. (Steam Specialties & Pneumatic Air Tubes)
 *Wilson Saw & Mfg. Co. (Saw Mill Mach'y., etc.)
 PORTLAND—†Bates Bros.
 READING—*Brown & Kerr
 RICHMOND—†Parker Plow Co. (Agrl. Impls.)
 ROCHESTER—*†Jackson & Co.
 ROMULUS—†Seestedt, Henry W.
 SAGINAW — *†Allington & Curtis Mfg. Co. (Blowers, Exhausters, Dust Collectors, etc.)
 *American Beet Harvester Co. (etc.)
 *American Sand Stone Brick Mach'y. Co. (Brick Mach'y.)
 *†Bartlett, A. F. & Co. (Mine, Salt & Saw Mill Machinery, Engines & Iron & Brass Castings, etc.)
 *Erd Motor Co. (Gas & Gasoline Engines, etc.)
 *†Eureka Heating & Ventilating Co. (Grate Bars, Low Pressure Boilers, Castings, etc.)
 †Fair, S., & Son
 *Farmers' Handy Wagon Co. (Agrl. Impls. & Farm Wagons, etc.)
 *Ferrell, A. T. & Co. (Fanning Mills, etc.)
 *Heglnbottom & Son
 *Hurtblise, Alex. (Stump Puliers)
 *†Jackson-Church-Wilcox Co. (Mach'y., etc.)
 *†Jackson & Church Co. (Salt Well, Mining & Saw Mill Machinery)
 *Koehler Bros. (Forge & Machine Shop)
 *Ladd Bros. (Creamery Mach'y & Supplies)
 *Lufkin Rule Co. (Rules, etc.)
 *Mershon, W. B. & Co. (Woodworking Mach'y., etc.)
 *†Mitls & Merrill (Agrl. Impls. & Fdms. & Machinists, etc.)
 *Moffett Vehicle Bearing Co. (Vehicle Bearings, etc.)
 *National Engineering Co. (Gasoline Engines, Windmills, etc.)
 *Presser, W. H. & Sons (Saws, etc.)
 *†Saginaw Wheelbarrow Co.
 *United States Cement Shingle Mach'y. Co.
 †Valley Grey Iron Foundry Co. (Grey Iron Castings, etc.)
 *WERNER & PFLEIDERER (Macaroni Mach'y., Kneading & Mixing Machines, etc.) (See adv. index, end of book)
 *†Wickes Bros. (Steam Engines, Saw Mill Machinery, etc.)
 ST. CLAIR—*†Great Lakes Engineering Works (Marine Engines & Shipbuilders)
 †Wonder Plow Co. (Plows, etc.)
 ST. JOHNS—*Mason, F. C. & Co. (Agrl. Impls. & Parts)
 †St. Johns Foundry Co.

ST. JOSEPH—*Engberg's Elec. & Mechanical Works (Machinists, etc.)
 *†St. Joseph Iron Works (Basket & Veneer Mach'y., etc.)
 *Saranac Machine Co. (Book Binders' & Wire Stapling Machinery)
 *Spaulding Engine Co. (Gasoline Engines)
 *†Truscott Boat Mfg. Co. (Marine Engines & Motors, etc.)
 SAULT SAINTE MARIE — *†Hickier Bros. (Marine Work)
 SEBEWAING—*†Kellogg, W. H.
 SOUTH HAVEN—*Mapes, E. B.
 SOUTH HAVEN—*Mapes, E. B. (Peach Pitting Machines)
 STURGIS—*†Freeland, B. F. & Sons Co. (Iron Tanks, Heaters, etc.)
 *Miller-Hubbard Mfg. Co.
 *†Sturgis Machine Co.
 TECUMSEH—*†Brewer, Horace & Co., Inc. (Brick Presses & Clay Working Mach'y., etc.)
 *†Century Post Co. (Furnaces & Ranges)
 *†Heesen Bros. & Co. (Feed Cookers, Hog Ringers, etc.)
 THREE RIVERS—*Armstrong Machine Works (Wire Spokes & Nipples, etc.)
 *King Beet Tool Co. (Tools, etc.)
 *†Sheffield Car Co. (Inspection Cars & R. R. Specialties)
 *†Three Rivers Railway Supply Co. (R. R. Specialties, etc.)
 TRAVERSE CITY—*Jackson, Wm. (etc.)
 *Potato Implement Co. (Corn & Potato Planters, etc.)
 *Queen City Brick Machine Co. (Brick Machinery, etc.)
 *†Round & Son (Iron Fdms.)
 *†Traverse City Iron Works (Iron Fdms. & Machinists)
 UNADILLA—*Watson-Porter-Watson Co. (Ltd.)
 UNION CITY—*Green, B. F. (Machinist)
 VASSAR—*†Miller Co. (Fdms. & Machinists)
 VICKSBURG—*†Eclipse Governor Co.
 *Spade Engine Co. (Gas Engines)
 *Vicksburg Mfg. Co. (Steam Specialties, R. R. Devices, etc.)
 WEST BAY CITY—*West Bay City Ship Building Co. (Shipbuilders)
 WEST BRANCH—*Grice, Wm. M. (Machinist)
 WYANDOTTE—*†Michigan Alkali Co. (Foundry Dept.)
 YALE—*Yale Machinery Co.
 YPSILANTI—*†Michigan Machinery Mfg. Co. (Drop Hammers, Power Presses & Shears, etc.)
 *Thompson, Oliver E. & Sons (Agrl. Implements, etc.)
 *†Ypsilanti Hay Press Co. (Hay Presses, etc.)
 *†Ypsilanti Machine Works (Flour Mill Machinery, etc.)
 ZEELAND—*Berghorst, B. J. W.

MINNESOTA.

ALBERT LEA—*American Gas Machine Co. (Gas Machines)
 *Edwards, C. D. (Stump Puliers & Ditching Machines)
 *†Veness, J. W. (Machinist & Fdry.)
 ALEXANDRIA—*Fredenberg, M. D.
 *Olson, L. J.
 AUSTIN—Carlson, C. A. (Machinist)
 *†Johnson & Smith Co. (Plows, Harrows, etc.)
 BLOOMING PRAIRIE—*Morton, Thos. S. & Son
 *Morton, Thos. S. & Son
 BRAINERD—*†Parker & Topping (Iron Fdms., Light & Heavy Castings, etc.)
 CALEDONIA—*Caledonian Wagon & Iron Wks.
 CANNON FALLS—*Anderson, Jno. J. (Machinist)
 CHASKA—*†Ess Bros.
 COLOGNE—*Kohls, Wm. (Machinist)
 COLUMBIA HEIGHTS—†Columbia Heights Foundry Co.
 CROOKSTON—*†Crookston Mfg. Co.
 *†Maple Bay Mfg. Co. (Wind Stackers)
 DASSEL—*Wremsner Bros.
 DULUTH—*†Clyde Iron Works (Inc.) (Steam Logging & Concrete Mach'y.)
 *†Duluth Brass Works Co. (Brass Fdms.)
 *Duluth Stoker Co. (Automatic Stokers)
 *Duluth Gas Engine Works (Gas Engines, etc.)
 *Marine Iron Co.
 *†National Iron Co.
 *†Northwest Steam Boiler & Mfg. Co.
 *Thomsen, T. J., Foundry Co.
 *Zenith Furnace Co. (Machine Shop for Company Use)
 EDGERTON—†Anderson, N. P.
 FAIRMONT—*†Fairmont Machine Co.

FARIBAULT—†Nutting Truck Co.
 *†Winter, F. W. & Co.
 FERGUS FALLS—*†Fergus Iron Works Co.
 GLADSTONE—*Poirier Mfg. Co. (Agrl. Im-
 plements)
 GLENCOE—*†Glencoe Fdry. & Machine Co.
 GRANITE FALLS—*Lende, Claus
 HASTINGS—*Stroud Humphrey Mfg. Co.
 (Gasoline & Marine Engines, etc.)
 HENDERSON—*Bisson, C.
 HOPKINS—*†Minneapolis Threshing Ma-
 chine Co.
 HUTCHINSON—*†Hutchinson Iron Works
 JANESVILLE—*†McGuiness, J. I.
 KASSON—*†Johnson V. C. Foundry & Ma-
 chine Shop
 LA CRESCENT—*Smith, W. Grubber Co.
 (Stump Pullers, etc.)
 LAKE CITY—*†Gillett & Eaton (Engines,
 etc.)
 LITTLE FALLS—*†Dennis, Jno.
 MADISON—*Berg, E. O. Mfg. Co. (Agrl.
 Impls.)
 MANKATO—*†Mankato Mfg. Co. (Machinists
 & Founders)
 *†Mayer Bros. (Inc.) (Trip Hammers,
 Castings, etc.)
 MINNEAPOLIS—*†American Bridge Co. (See
 Pittsburg, Pa.)
 *†Atlas Iron Works Co., 113 2d av. S E
 *Automatic Carbonator Co. (Carbonating
 Machinery)
 *†Baum's Brass & Model Works, 244 3d av.
 *Bolton Lath & Shingle Machinery Co.,
 166 Western av.
 *†Bros. Wm., Boiler & Mfg. Co. (Boilers,
 etc.)
 †Bryant, J. W., Co., 2601 University av.,
 S. E.
 *†Central Machine Works Co. (Woodwork-
 ing Machy. & Grey Iron Castings)
 †Commutator Co. (Copper & Brass Fdrs.,
 Finishers, Commutators, etc.), 121 N 1st
 *†Crown Iron Works Co. (Builders' Iron
 Work)
 *†Diamond Iron Works (Grain Elevator,
 Saw Mill Mach'y, etc.), 2d & 18th av. N
 *Electric Heat Regulator Co., The Phoenix
 *Electric Machinery Co. (Dynamo, Motors
 & Generators)
 *†Flour City Ornamental Iron Works
 (Brass, Iron & Bronze Fdrs. Finishers,
 Machinists, etc.), 2635 S. 27th av.
 *Garbett & Schneider, Power bldg, Nicolett
 Island
 †Great Western Stove Repair Co., 312
 Hennepin av.
 *Hall, W. S. (Machinist), 420 S 2d
 *†Howell, R. R. & Co. (Saw Mill Ma-
 chinery, etc.), 31st av & S E 4th
 *†KILGORE-PETELER CO. (Indus-
 trial Cars, Wheels, etc.), (See adv. in-
 dex, end of book)
 *†Kinnard-Haines Co. (Hay Presses, En-
 gines, etc.), N 44th av nr N Bryant av
 *Lagerquist, Gus. (Elevators, etc.), 514 N
 Third
 *†Lenhart Wagon Co., 2600 University av.,
 S. E.
 †Menzel & Jeffrey Co., 315 9th av. S
 *†Mereen-Johnson Machine Co., 44th av.
 N & Lyndale av. N
 *†Minneapolis Bedding Co. (Brass & Iron
 Bedsteads) 5th av. & Division
 *†Minneapolis Brass & Iron Mfg. Co.
 (Brass Fdrs. & Finishers), 116 N 1st av
 *Minneapolis Plow Works (Plows, Har-
 rows, etc.), 34th av. S & E 27th
 *†MINNEAPOLIS STEEL & MA-
 chinery Co. (Corliss Engines & Heavy
 Castings, etc.) (See adv. index, end of
 book)
 *†Minneapolis Threshing Mch. Co.
 *†Monitor Drill Co. (Grain Drills, Cultiva-
 tors, etc.), Works, St. Louis Park, Minn.
 *Moore Carving Machine Co. (Woodworking
 Mach'y), 1919 Portland av
 †National Brass & Metal Co., Inc. (Brass
 Fdrs. & Finishers, Plumbers' Brass
 Goods), 256 S 3d av
 *†National Mfg. & Supply Co. (Pumbers'
 Brass Goods)
 *National Novelty Co., 1st av S & 2d
 †North Star Foundry Co., 32d av. & 27th
 *†North Star Mfg. Co. (Gasoline Engines,
 etc.), 21 High
 †Northwestern Foundry, 312 S 10th av
 *†Nott Fire Engine Co. (Fire Engines, etc.)
 *Parten & Blomstrom Mfg. Co., 249 6th
 av S
 †Owens, J. L. Co. (Grain Cleaning Ma-
 chinery, etc.)
 *†Quimby Mfg. Co. (Hdwe. Specialties,
 etc.), 4175 Washington av
 *Russell Grader Mfg. Co., 2429 University
 av., S. E.

†Salisbury & Saterlee Co. (Iron Bed-
 steads), 215 S E Main
 Schutz-O'Neill Co. (Pulverizing Machy.,
 etc.), Corn Exchange
 *Shadegg, J. C. Engine Co., 315 S 3d
 *†Standard Fdry. & Machine Co., 1032
 3d av N E
 *Staude, E. G. Mfg. Co. (Engineers
 Printing Presses, etc.), 525 S 5th
 Strong-Scott Mfg. Co.
 *Therien, Jos. O. (Tools), 116 1st av. N
 *†Twentieth Century Brass & Iron Mfg.
 Co., 231 S 5th av
 *†Twin City Rapid Translt Co.
 *†Union Iron Works
 *Valentine Bros. Mfg. Co. (Gasoline En-
 gines, etc.), 230 5th av
 *Waloff Machine Co. (Machinist), 1700
 Washington av. N
 *†Washburn Steel Casting & Coupler Co.
 (Car Couplers & R. R. Specialties)
 *†Wilcox, H. E., Motor Car Co. (Auto-
 mobiles)
 *Williford Mfg. Co. (Flour Mill Machy.),
 303 S 3d
 NEW HARTFORD—*Blumentritt, Jos.
 NEW PRAGUE—*†New Prague Foundry Co.
 NEW ULM—*†Leonhardt, Chas. (Power
 Hammers, etc.)
 NORTH BRANCH—*Splittstosser, F. (Job-
 bing)
 NORTHFIELD—*Northfield Furnace Co.
 (Furnaces)
 ORTONVILLE—*†Mullica, W. F.
 OWATONNA—*†Kaplan & Felton
 *†Owatonna Mfg. Co. (Grain Drills, Seed
 Sowers, etc.)
 *Virtue & Pound (Gasoline Engines)
 *†Washington Tool Co. (Tools & Machy.)
 PAYNESVILLE—*†Seavey, C. W.
 PLAINVIEW—*Edwards, W. G.
 RED WING—*†Desmore Bros. (Steam Sor-
 ghum Machy., etc.)
 *†Hjermstad, J. M.
 *†Red Wing Boat Mfg. Co.
 REDWOOD FALLS—*Japs, Frank A.
 ROBBINSDALE—*Pearson Mfg. Co. (Milling
 Machines)
 ROCHESTER—*†Lull & Marquardt
 ST. CLOUD—*Dyer & Rosenberger
 *†St. Cloud Iron Works (Granite Cutting
 & Polishing Machy.)
 ST LOUIS PARK—*Martin, M. R. (Grinding
 Mills)
 *†Monitor Drill Co. (Grain Drills, etc.)
 ST. PAUL—*†AMERICAN HOIST
 & Derrick Co. (Contractors' & Quarrymen's
 Machy. & Tools), 63 S Robert. (See
 adv. index, end of book)
 *Borreson Mfg. Co., St. Anthony Park
 *Brownson, R. & Co. (Horse Collar &
 Harness Machy.)
 †Buckeye Foundry (Stove, Range & Grey
 Iron Castings, etc.), Fairfield av. &
 Starkey
 *Dahlquist Machinery Co. (Elevator Bldrs.,
 etc.), 515 Robert
 *Erickson, John E., Machine Works, Fill-
 more av. & Walter
 *Franklin Machine Works (Passenger &
 Freight Elevators), 2208 University av
 †Great Northern Ry. Shops
 *†Griffin Wheel Co. (See Chicago, Ill.)
 *Heck, G. J., 447 Cedar
 *HELWIG MFG. CO. ("Helwig" Pneu-
 matic Tools, etc.) (See adv. index, end
 of book)
 †Herzog Iron Works (Ornamental & Struc-
 tural Steel Work, etc.)
 *†Joesting & Schilling (Steel Ranges, etc.),
 315 Robert
 *Johnson, C. I. Mfg. Co. (Printers' Mch'y.)
 *†Law Mfg. Co. (Hay Tools, etc.)
 *Lee & Hoff Mfg. Co. (Elevators & Ma-
 chine Work), 81 E Fillmore av
 †Northern Malleable Iron Co. (Malleable
 Iron Castings)
 *†Northwestern Bedding Co., St. Anthony
 Park
 *†Orme's, Henry Sons (Foundry, etc.)
 *†Posch, Jos. (Copper & Brass Works), 59
 W. 3d
 †St. Paul Brass Foundry Co., 2d & Min-
 nesota
 *†ST. PAUL FOUNDRY CO. (Steel
 Structures & Builders, Builders & Rail-
 road Castings, etc.), Como av &
 Mackubin. (See adv. index, end of book)
 *St. Paul Machine Works (Machinists),
 123 W 3d
 *†South Park Foundry & Machine Co.
 (Radiators, Iron & Brass Fdrs., etc.),
 Gillfillan blk.
 *†Stickney, Chas. A. Co. (Gasoline En-
 gines, etc.), Fillmore & Fairfield avs

†Twin City Iron & Wire Works (Brass
 & Iron Fdrs., Elevator Enclosures, Fire
 Escapes, etc.), 106 E 5th
 *†Union Brass & Metal Mfg. Co. (Plumbers'
 Supplies), Front & Mackubin
 †Valley Iron Works (Iron Fdrs., etc.)
 *†Waterous Engine Works Co. (Gasoline
 Engines, 62 S Robert
 †Western Iron Works
 *†Wolterstorff-Haskell Range & Furnace
 Co. (Steel Ranges, Furnaces, etc.), 186
 E. 6th
 SAUK CENTER—†Keller Mfg. Co. (Agrl. Im-
 plements, Harrows, etc.)
 SHAKOPEE—†Minnesota Stove Co. (Stoves)
 SOUTH PARK—*†South Park Foundry &
 Machine Co. (See St. Paul)
 SPRING VALLEY—*Kilburn, Edw. (Machinist)
 STEPHEN—*†Stockland, C. K.
 STILLWATER—*Atwood-Jones Mfg. Co.
 *†Brouson, J. N. (Fdry. & Machinist)
 †Dalley, L. W. Stove Wks. (Stoves)
 *†Jesse, Aug. (Fdry., etc.)
 *†Northwest Thresher Co. (Agrl. Impls.,
 etc.)
 *†Swain, D. M. (Fdry. & Machinists)
 TWO HARBORS—*†Duluth & Iron Range
 Ry. Shops
 VIRGINIA—*†Virginia Foundry & Machine
 WADENA—*†Gehr, & Ward Co.
 WARREN—*†Warren Machine & Iron Works
 WASECA—*Lang & Cochran Co.
 †Reibold, Jno.
 WAVERLY—*Waverly Mfg. Co. (Tools, etc.)
 WELLS—†Hienjum, J. B. & Sons
 WINONA—*Baldwin Bros. (Hand Fire En-
 gines)
 *†Hardwick, W. L.
 *†New Winona Mfg. Co. (Cotton Seed Hnl-
 lers, Feed Mills, Corn Shellers, etc.)
 *†Phenix Iron Works (Engines, Architec-
 tural Iron & Brass Castings)
 *†Tarras, L. C.
 *Winona Machine & Boat Works (Gasoline
 Engines, Motor Boats, etc.)

MISSISSIPPI.

BOLTON—*Birdsong, Mason' (Machinist)
 CENTERVILLE—*McElwee, George D.
 COLDWATER—*Perry, A. G. (Agrl. Impls.)
 COLUMBUS—*†Columbus Machinery & Fdry.
 Co.
 *†Jacobs, F. M.
 *Littleton, L.
 *†Standard Stove Works (Stoves)
 CORINTH—*†Adams, W. T. Machine Co.
 (Saw Mill Mach'y, Engines, etc.)
 *†Corinth Engine & Boiler Works (En-
 gines & Saw Mill Machinery)
 DOCKERY—*†Collins Plow Works (Agrl.
 Impls., etc.)
 GREENVILLE—*Berry, H. N.
 *†Wall, Jos.
 GREENWOOD—*†Kitchell, H. G. (Fdry. &
 Machinist)
 GULFPORT—*†Dantzler Foundry & Mach.
 Works
 *Smith, W. R. & Son
 HATTIESBURG—*†Komp Machine Works
 (Fdry. & Machinist)
 *†Watkins Machine & Foundry Co.
 HAZLEHURST—*Hazlehurst Machine Shops
 (Inc.)
 JACKSON—*†McDonnell Foundry & Machine
 Co. (Plows & Castings)
 *†Miss. Foundry & Mach. Co. (Fdrs. &
 Machinists)
 LAUREL—*†Laurel Machine & Foundry Co.
 MERIDIAN—*Hyde, Chas. J. (Hay Presses,
 N. O. & N. E. Ry. Shops
 etc.)
 *†Soule Steam Feed Works (Saw Mill
 Mach'y)
 MOSS POINT—*†Blumer, Adam
 NATCHEZ—*†Shaw, C. P. (Foundry & Ma-
 chinist)
 SCRANTON—*Gatti, T. C.
 VICKSBURG—*Dutton, G. M. (Machinist)
 †Foley, P. J. & Son
 *†Robinson, R. J. (Machinist & Fdry.)
 WATERVALLEY—*†Hendricks, Wm. M.
 WEST POINT—*Bentley, F. A.
 YAZOO CITY—*Lynn, R. C.

MISSOURI.

AURORA—*†Loy-Wilson Fdry. & Machine
 Works
 *†United Iron Works Co. (See Spring-
 field)
 BOONVILLE—†Warnhoff Gate & Iron Works
 BROOKFIELD—*†Mettler, L. M.
 CALIFORNIA—*California Machine Shop
 CAPE GIRARDEAU—†Fuerth, J. F.
 *†Schmittzehe, Andrew J.
 CARROLLTON—*†Farm Tool Mfg. Co.
 *Helms, Daniel
 *Helms, W. F. (Pumps)

CARTERVILLE—*†§Webb City & Carterville Foundry & Machine Works
 CARTHAGE—*†Carthage Fdry. & Machine Works
 *†§Stout-Parke Fdry. & Machine Co.
 CHILLICOTHE—*McDougle, J. F.
 *†Jenkins Hay Rake & Stacker Co.
 *†Way, Frank Fdry. & Machine Co.
 CLARKSVILLE—*†Fletcher, M. A.
 CLINTON—*†§Industrial Iron Works
 COLUMBIA—*†Matthews, Chas. (Stoves, etc.)
 *West, Wm. B. & Son
 CRYSTAL CITY—*†§Pittsburg Plate Glass Co. (See Pittsburg, Pa.)
 DEERING—*†International Harvester Co. (See Chicago, Ill.)
 ELDON—*Vanosdell, C.
 FARMINGTON—*Alexander Machine Co.
 FAYETTE—*Fischer, J. W.
 FREDERICKTOWN—*†§Littleton, T. R., & Son
 FROHNA—*Bachmann, Theo.
 FRUITLAND—*McNeely Bros.
 FULTON—*†§Gilbert, Wm.
 GARDEN CITY—*†§Kaufman, J. L.
 GRAHAM—*Moore Bros. Lightning Rod Co. (Lightning Rods, etc.)
 GREEN CITY—*†§Ideal Pump & Mfg. Co.
 HANNIBAL—*†Duffy-Trowbridge Stove Mfg. Co. (Stoves)
 *Long, E. C. Mfg. Co.
 *†Treat, C. A. Mfg. Co.
 HARRISONVILLE—*†Sharp, I. M. (Machinist & Fdry.)
 HERMANN—*Wohlt, Aug.
 HIGGINSVILLE—*†§Raasch, G. A.
 HUNTSVILLE—*†Fleming & Sons Mfg. Co. (Rakes & Hay Stackers)
 INDEPENDENCE—*†American Scale Co. (Scales, etc.)
 *†Danielson Implement Co. (Plows, etc.)
 *†Independence Foundry Co.
 *†Roell Stove Mfg. Co. (Stoves, etc.)
 JEFFERSON CITY—*Star Dynamo Co. (Dynamo & Motors)
 *†Tanner, Theo.
 *†Vetter, H. J.
 JONESBURG—*Godfrey, H. M. (Plows)
 JOPLIN—*Hamm, Fred
 *†Joplin Brass & Metal Co.
 *†Joplin Foundry Co.
 *†Miners' Gas Engine & Mfg. Co. (Gas Engines, etc.)
 *†§Rogers-Conklin Mfg. Co.
 *†§United Iron Works Co. (See Springfield)
 *†Webb City & Carterville Fdry. & Mach. Co. (See Webb City)
 KANSAS CITY—*Aetna Machine Works, 507 Broadway
 *Art Novelty Mfg. Co., 706 Wyandotte
 *†Bauer Machine Works Co.
 *Carr Mfg. Co. (Farm Machy.), 1324 W 11th
 *§Central Brass Works Co. (Plumbers' Brass Goods, etc.)
 *Crago, Edw. C., 1335 Walnut
 *Cramer Safe Co. (Safes, etc.)
 *§Crampton-Farley Brass Co. (Brass Fdrys. & Finishers), 221 Main
 *Demster Machinery Co., 16th & Walnut
 *Dreischbach Auto & Gas Engine Co., 2312 E 15th
 *†Eagle Mfg. Co. (Plows, Cultivators, etc.)
 *Emerson-Newton Co. (Farm Machy)
 *†English Iron Works Co. (Hydraulic Machinery)
 Garland, W. H. Mfg. Co. (Dies & Tools, etc.), 111 W 18th
 *†§Great Western Mfg. Co.
 *Harblson & Modica Mfg. Co. (Impit. Supplies, etc.), 1219 W 10th
 *Hervey Machine Works (Special Mach'y, etc.), 313 Grand av
 Kansas City Bolt & Nut Co.
 *Kansas City Elevator Mfg. Co. (Elevators, etc.), 105 W 19th
 *†Kansas City Hay Press Co. (Hay Presses, Feed Mills, Haying Tools, etc.), 8th & Mill
 *Kansas City Machine Works (Machinists)
 *Kansas City Mfg. & Supply Co., 429 W 5th
 *†Kansas City Scale & Supply Co. (Scales, etc.)
 *†Kansas City Wire & Iron Works (Structural Iron Work, etc.)
 *Loewer, John E., Wire & Iron Works
 *Mathews, Hugh (Cylinder Boring Bars, etc.)
 *Millman, Chas. A. (Novelty Machy.)
 *Missouri Iron Works
 *Murray Machinery Co. (Machinists)
 *National Machine & Construction Co., 1302 Union av
 *New Western Fdry. Co.
 *Novelty Machine & Plating Works, 504 Wyandotte
 *Prest Heating & Foundry Co.
 *Pugh Foundry Co., 9 W Levee

*Republic Machine Works, 1422 Walnut
 *†Security Stove & Mfg. Co. (Stoves, Castings, etc.)
 *†Smith & Sons Mfg. Co. (Plows, Hay Presses, Rakes, etc.), Guinotte & Lydia
 *†Standard Scale & Fdry. Co. (Scales, etc.)
 *†Star Brass Works Co.
 *†Strait, H. N., Mfg. Co. (Corliss Engines, Cooperage Machinery, Scales, Hay Presses, etc.). (See Kansas City, Kan.)
 *Tilks, Frank Ornamental Iron Works Co.
 *Urie-Snyder Iron Works Co. (Hoisting Engines, etc.)
 *Vogl Tool Co. (Stonecutters' Tools, etc.)
 *†Witte Iron Works Co. (Gas Engines, etc.)
 *X.-L. Concrete Stone Machine Co., 111 W. 18th
 KENNETT—*†Kennett Engine & Boiler Wks.
 KIRKSVILLE—*†§Sherwood, W. L.
 KIRKWOOD—*†Natural Power Co. (Blowers, Pumps, etc.)
 KNOBNOSTER—*Hunter, A. J.
 LEXINGTON—*Taubman, Charles.
 LINNEUS—*†§Superior Hay Stacker Mfg. Co. (Hay Stackers, etc.)
 LOUISIANA—*†Lynott, J. P. (Stoves)
 *Parsons, J. W.
 MACON—*†§Palfrey Boiler, Foundry & Machine Co.
 MALDEN—*Wills, A. V. & Sons
 MARYVILLE—*†§Armstrong & Bennett
 MILAN—*Sevler, J. D.
 MOBERLY—*Brooks, Jas. (Machinist)
 *Eldridge, T. A.
 *†Faessler, J. Mfg. Co. (Machine Tools, etc.)
 *†§Moberly Fdry. & Machine Co.
 *Selby, W. H. (Furnaces)
 *†Wabash R. R. Shops
 NEOSHO—*†Heaton, Warren
 *†§Neosho Foundry & Plow Works (Plows, etc.)
 OROGONO—*Oronogo Machine Co.
 *†§Webb City & Carterville Fdry. & Machine Co. (See Webb City)
 PERRY—*†Stehle & Son Stove Co. (Stoves)
 PERRYVILLE—*†Perryville Foundry & Machine Shop
 PLEASANT HILL—*†McDonald Bros. Pitless Scale Co. (Pitless Scales, etc.)
 POPLAR BLUFF—*†§Brewer & Holcomb
 ST. CHARLES—*†§American Car & Foundry Co. (Cars, etc.). See St. Louis
 *§Leistner, Paul
 ST. JOSEPH—*Acme Machine Co. (Machinists)
 *†§Berry Foundry & Mfg. Co. (Iron Fdrys., Builders' Iron Work, etc.)
 *Biehler, H. G.
 *Cartmell Machine Co. (Engines, Threshers & Sawmills)
 *†§Crowther & Rogers Mfg. Co. (Foundry & Machine Work)
 *Garvey & Co. (Machinists, etc.)
 *Jamieson Machine Co. (Mach'y., etc.)
 *†§Phoenix Foundry & Mfg. Co.
 *Richardson, Geo. O. Machine Co. (Engines & Threshing Mach'y)
 *†St. Joseph Plow Co. (Plows, etc.)
 *St. Joseph Pump & Mfg. Co.
 *†Schwein, August, Stove Co. (Stoves)
 *Wyeth Hdware. & Mfg. Co. (Hardware, etc.)
 ST. LOUIS—*Alsop Process Co. (Machy.), Mo. Trust Bldg.
 *†American Bed Co. (Iron Bedsteads)
 *†American Brake Co. (Car Brakes & Specialties), 1932 N Broadway
 *†American Car Co. (Electric Cars, etc.), 1527 Old Manchester Rd
 *†§American Car & Foundry Co. (Cars, Car Wheels, Cast Iron Pipe, Grey & Malleable Iron Castings, etc.)
 *American Diagraph Co. (Stencil Cutting Machines, etc.), 13 N. 2d
 *†§American Foundry & Mfg. Co. (Water, Gas & Plumbers' Goods, Hardware, etc.)
 *American Furnace Co. (Hot Air Furnaces), 1911 Pine
 *American Paper Cutter & Mfg. Co., 2d & Breman av
 *†American Stove Co. (Stoves), 414 N 6th
 *Atkins, H. C., Mfg. Co., 703 S. Broadway
 *Bajohr, Carl (Lightning Rods, etc.), 4055 Keokuk
 *Ball, Phil De C. (Ice Machines), 3003 N Broadway
 *†Banner Iron Works (Iron Fdrys. & Builders' Iron Work), 4560 Shaw av on Oak Hill Ry
 *Bradley Stencil Machine Co. (Stencil Machines), 2108 Papin
 *Branch Saw Co., 817 N 2d
 *Brauer, A. G. Supply Co. (Stove Repairs, etc.), 318 N 3d

*Brecht, Gus V., Butchers' Supply Co. (Packing House Machy., etc.), 1201 Cass
 *Brell Robt., 117 Locust av
 *†Bridge & Beach Mfg. Co. (Stoves), 503 S Main
 *Brockman, J. R., Mfg. Co. (Steam Fitters' Tools & Supplies, etc.), 212 Lucas
 *Buchheit & Haseman, 739 S 2d av
 *†Buck's Stove & Range Co. (Stoves, etc.), 3500 N 2d
 *§Cahill-Swift Mfg. Co. (Plumbers' Supplies & Brass Goods), 24 S 12th
 *†Carondelet Foundry Co. (Iron Fdrys.), 2123 S King's Highway boul
 *Century Electric Co. (Electric Motors), 404 W. 4th
 *†Century Iron Works, 11th & Walnut
 *Champion Shoe Machinery Co. (Shoe Machinery), 3337 Franklin av
 *†§Charter Oak Stove & Range Co. (Stoves, etc.), 1440 N Main
 *†Christopher & Simpson Arch'l Iron & Foundry Co. (Iron Fdrys. of Bldrs.' Iron Work), 8 to 9 Park av
 *†Commonwealth Steel Co. (Steel Castings, Car Trucks, etc.), Bank of Commerce bldg. Works, Granite City, Ill.
 *Cook Well Co. (Pumping & Well Drilling Mach'y), 15 S 4th
 *Cornucopia Waffle Oven Co., 2119 Morgan
 *Crescent Novelty Mfg. Co. (Dies, Tools), 703 S Broadway
 *†§Curtis & Co., Mfg. Co. (Saw Mill Machy. & Air Compressors, etc.)
 *Davis Expansion Boring Tool Co., 202 S Commercial
 *§Degge & Musick (Brass Fdrys. & Nickel Plating, etc.), 717 Market
 *Diagraph Co. (Stencil Cutting Machines), 9th & Clinton
 *Dielectric Mfg. Co. (Machinists, etc.), 224 S Vandeventer
 *Dooly, Jno. E. Furnace Co. (Hot Air Furnaces, etc.), 1002 N Vandeventer
 *Dorris Motor Car Co., 38 S Sarah
 *Eagle Generator Co. (Acetylene Gas Generators, etc.), 1532 Pine
 *Ellison, Wm. & Sons Mfg. Co. (Machinists, Steam Engines, etc.), 1020 N 6th
 *Emerson Electric Mfg. Co. (Electric Fans & Specialties, etc.), 2032 Wash'n av
 *Essmuller Mill Furnishing Co. (Flour Mill Machinery), 1216 S 8th
 *Eureka Brass Co., 2210 Scott av
 *Ferniholtz Brick Machinery Co. (Brick Press Machines), Old Manchester rd & Boyle av
 *Fisher & Davis Mfg. Co. (Excelsior & Woodworking Machy., Engines, Steam, etc.), 1024 N Main
 *†Foster Bros. Mfg. Co. (Iron Beds, etc.), 1410 N 16th
 *Frank & St. Gemme Mfg. Co. (Brass Finishers, Fire Extinguishers, & Machinists), 817 Market
 *†Fritz, Geo. J. Foundry & Machine Co. (Cotton Seed & Pulverizing Mach'y, etc.), 2008 S 3d
 *†Fulton Iron Works (Corliss Engines, etc.), 2d & Carr
 *Gerahty Bros. (Elevators, etc.), 416 S. 6th
 *†Gerst Bros. Mfg. Co. (Iron Fdrys. & Bldrs. Iron Work), 800 Cass av
 *§Gilbert, A. & Sons Brass Foundry Co. (Car & Engine Brasses, etc.)
 *Graf, Robert, 3205 N B'way
 *†Green's Car Wheel Mfg. Co. (Car Wheels, etc.), 3018 N B'way
 *Griffiths Iron Works Co. (Builders' Iron Work, Engineers' Tools, etc.), 811 N 10th
 *Gruendler Machine Co. (Machinists), 928 N Main
 *†Hager, C. & Sons Hinge Mfg. Co. (Hardware & Specialties), 2427 De Kalb
 *Hahn & Mayer, 944 N Main
 *Hall & Brown Woodworking Machine Co. (Woodworking Mach'y), 1913 N B'way
 *Hart Mfg. Co. (Belt Fasteners, etc.), 24 S 10th
 *Haynes-Langenberg Mfg. Co. (Steel Furnaces), 4057 Forest Park boul
 *†Heinz, C., Stove Co. (Stoves, Ranges, etc.), 100 N 2d
 *§Hewitt Mfg. Co. (Journal Bearings, etc.), 2028 Walnut
 *Hicks & Timberlake, Branch & 9th
 *†Hirsch Rolling Mill Co., Ecoff av. & Mo. Pac. Ry.
 *House Cold Tire Setter Co. (Tire Setters, etc.)
 *Hoyt Metal Co. (Babbitt Metal, etc.),
 *Jacob, Robt., Jr., 211 Chouteau av
 *†Kaysing Iron & Foundry Co., 2710 N 25th
 *†Kilpatrick, A. & Sons Foundry Co. (Iron Fdrys.), 1631 N 12th

*†Kingsland-Kay-Cook Mfg. Co. (Electric Supplies, Brass, Bronze, Aluminum & Iron Fdrs., Machinists, etc.), Mullanphy, 11th & 12th
 *†Knight, W. B., Machinery Co. (Dies, Tools & Special Machy., etc.), 2019 Lucas av
 *†Koken Iron Works, 1012 Old Manchester rd
 *†Kraushaar Brass Mfg. Co. (Gas & Electric Fixtures, Brass, Bronze & Copper Castings)
 *†Kupferle Bros. Mfg. Co. (Brass Fdrs. & Machinists), 600 N 2d
 *†Kupferle, Jno. C. Foundry Co. (Hardware & Plumbers' Specialties), 2d & Kupsch, August, 209 S. 3d Mound
 *†Laclede Brass Works (Brass Fdrs.), 307 Cedar
 *†Landay Steel Range Co., 1500 Montgy.
 *Landis Machine Co. (Machinists, etc.), 1515 N 25th
 *†Liberty Foundry Co., 7623 Reilly av
 *†Ludlow-Saylor Wire Co., 600 S Newstead av
 *Lupfer, W. (Brass Fdry.), 216 Locust
 *McGoogan, W. J. (Machinist), 210 Morgan
 *†MacGowan & Finigan Fdy. & Machine Co. (Trip Hammers, etc.), Gay bldg.
 *Maheu & Coyle, 2300 N. Broadway
 *†Majestic Mfg. Co. (Steel & Malleable Iron Ranges, etc.), 2018 Morgan
 *Materne Mfg. Co. (Machinists, Pipe Fitters, etc.), 800 S 18th
 *Mayers Tire Setter Mfg. Co. (Tire Setters, etc.), 4030 Forest Park boul
 *Maynard, J. F. (Ice Refrigerating Machy.), 116 Geyer av
 *†Medart Patent Nail Co. (Iron Fdrs. & Machinists, Power Transmitting Machinery), 3500 De Kalb
 *†Mellon, Peter H. Mfg. Co. (Brass & Iron Bedsteads, etc.)
 *†Mesker & Bro. (Iron Fdrs. & Builders' Iron Work), 421 S 6th
 *†Messmer, Ferdinand Mfg. Co. (Gears, Brass Fdrs., etc.), 2700 S 7th
 *†Miller, W. A. Elevator Mfg. Co. (Elevators, etc.), 9th & Victor
 *†Missouri Brass Type Fdry. Co., 1620 W 22d
 *†Missouri Bridge & Iron Co., 122 N 7th
 *Mitchell-Parks Mfg. Co. (Flour Mill Machinery, Mo. Trust Bldg)
 *Moloney Electric Co., 7th & Hickory
 *Moon-Hopkins Billing Machine Co. (Adding Machines, etc.), 19th & Pine
 *†Moran Bolt & Nut Mfg. Co., Florida & Main
 *More-Jones Brass & Metal Co. (Brass Fdrs., Bearings, etc.), 3144 N B'way
 *†Nelson, N. O., Mfg. Co. (Plumbers' Specialties, Cast Iron Pipe, etc.)
 *†Never-Break Range Co. (Ranges, etc.), 501 Talcott av
 *†OTIS ELEVATOR CO., Sth & Mullanphy. (See New York City)
 *†Pauly Jail Building Co. (Steel Jail Work), 2215 De Kalb
 *Pfoertner, Lehmann, Machine Co., 709 S 4th
 *Philippi, Alex. F. (Machinist), 308 Market
 *Progress Press Brick & Machine Co. (Brick Machy., etc.), 3205 Kings Highway
 *Putnam Die Co. 917 N. Market
 *Ramming, John Machine Co. (Steam Engines, etc.), 300 S Main
 *Ramsey Machine & Elevator Co., 418 N. 3d
 *Reliance Machine & Tool Works (Hoisting Engines, etc.), 3341 Franklin av
 *Republic Railway Appliance Co., 2 S Main
 *†Reuter-Jones Mfg. Co., 1607 S. 3d
 *Ross-Keller Triple Pressure Brick Machine Co. (Brick Machy.), Fullerton bldg
 *Roth, B. Tool Co. (Machinists & Tools), 2122 Chouteau av
 *†Ruemmel-Dawley Mfg. Co. (Ice & Refrigerating Machy., etc.), 3900 Chouteau av
 *†Rumsey, L. M. Mfg. (Machinists, Fdrs. Railway Supplies), 806 N 2d
 *†Rumsey & Sikemeier Co. (Machinery, Electric Supplies, etc.), 1900 Pine
 *Ruppenthal, J. & Son, 1602 N B'way
 *†St. Louis Architectural Iron Co., De Kalb & Lesperance
 *†St. Louis Bed & Mfg. Co. (Iron & Brass Beds, etc.), 408 N 4th
 *St. Louis Blower & Heater Co., 1628 N 9th
 *St. Louis Boat & Engine Co., 3608 S Main
 *†St. Louis Brass Mfg. Co. (Brass Fdrs. & Finishers), Washington & Jefferson av

*†St. Louis Car Wheel Co. (Car Wheels, R. R. and Machinery Castings), Spring av nr Mo. Pac. Ry.
 *St. Louis Gas & Gasoline Engine Co., 2615 DeKalb
 *†St. Louis Iron & Machine Works (Corliss Engines, etc.), 126 Chouteau av
 *St. Louis Machine Tool Co. (Machine Tools, etc.)
 *†St. Louis Malleable Casting Co. (Malleable & Gray Iron Castings), 7701 N Conduit av
 *St. Louis Steam Engine Co. (Steam Engines, Air Compressors, etc.), 16 S Commercial
 *St. Louis Well Machine & Tool Co., Wash R. R. & S Newstead av
 *Schoelhorn-Albrecht Machine Co. (Machinists), 416 N Main
 *Scott Mfg. Co. (Brick Machy., etc.), 3d Nat'l Bank bldg
 *†Scullin-Gallagher Iron & Steel Co. (Open-Hearth Steel Castings, etc.)
 *†Seibel-Suessdorf Copper & Iron Mfg. Co. (Brewers' & Malsters' Machy.), 2d & Lombard
 *Sinning, Chas., Machine Wks. (Machinist), 244 Dickson
 *†Smith & Davis Mfg. Co. (Iron & Brass Bedsteads)
 *†Sodemann Heat & Power Co. (Radiators & Heating Apparatus), 1510 Clark av
 *†South St. Louis Foundry Co. (Iron Fdrs. & Bldrs.' Iron Work), 7514 S B'way
 *†Spuck Iron & Foundry Co. (Iron Fdrs.), Branch & 14th
 *Standard Adding Machine Co., Spring av & Forest Park boul
 *Standard Railway Equipment Co. (Pneumatic Tools), Nat'l Bank of Com. bldg
 *†Star Foundry Co. (Gray Iron Castings), 3953 Forest Park boul
 *Stuckstede, H. Bell Foundry Co. (Bell & Brass Fdrs.), 1312 S 2d
 *Stuckstede & Bro. (Bell Fdry.), 2735 Lyon
 *†Stupp Bros. Bridge & Iron Co., Weber rd & Mo. Pac. Ry.
 *†Superior Brass & Mfg. Co., 106 S. 8th
 *Swaine, Fred J. Co. (Machine, Tools etc.), 1300 N 7th
 *Tolland, J. W., 1624 N 8th
 *†Tower Grove Foundry Co., 4444 Hunt av
 *Turley, Harvey G. (Cut Gears), 214 Locust
 *†Union Iron & Foundry Co. (Iron Fdrs. & Builders' Iron Work, etc.), 1452 S 2d
 *†Vogt, Julius O., 3131 N. B'way
 *†Wagner Electric Mfg. Co. (Dynamos, Motors, etc.)
 *Wenger, Geo., Machinery & Supplies Mfg. Co. (Machinery & Castings, etc.), 1328 Merchant
 *†West St. Louis Machine & Tool Co. (Shovel Machinery, etc.), 606 Manchester av
 *Western Brass Type Foundry, 3749 Texas av
 *†Western Foundry & Sash Weight Co. (Iron Fdrs.), 159 Miller
 *†Whitman Agricultural Co. (Agrl. Impls.), 6900 S B'way
 *Willard, W. G. (Ranges, etc.), 318 Chestnut
 *†Williams Patent Crusher & Pulverizer Co. (Pulverizing Machy.), 2705 N Bway
 *Wissler Instrument Works (Elect'l & Mathematical Instruments, etc.), 601 N. Broadway
 *†Wrought Iron Range Co. (Ranges, etc.), 1901 Washington av
 *Yerkes & Finnan Woodworking Machine Co. (Woodworking Machy.), 3145 N 9th
 *Ziegler, Robt., & Sons (Printing Presses, Bookbinders' Machy., etc.), 208 Vine
 SALISBURY—*†Rolling, J. F.
 SAVANNAH—*†Howard Stove & Mfg. Co.
 *†Schuyler, W. S. (Gas Stoves, etc.)
 SEDALIA—*†Barley, Thos. K. (Agrl. Impls., Harrows, Haying Tools, etc.)
 *†Ritter, R. H. (Machine Shop)
 *†Wells, Geo.
 SEYMOUR—*†Freeman Foundry & Machine Works
 SPRINGFIELD—*†New Phoenix Foundry & Machine Co.
 *†Silsby Stove & Queensware Co. (Stoves, etc.)
 *†United Iron Works Co. (Ice Making, Mining & Cement Mach'y, Builders' & other Iron Castings, etc.)
 *†Woods-Evertz Stove Co. (Stove Mfrs.)
 SWEET SPRINGS—*†Fischer, C. (Harrows, etc.)

TARKIO—*†Midland Mfg. Co. (Plows, etc.)
 TRENTON—*†Marsden Bros. (Jobbing)
 WEBB CITY—*†Central Foundry Co.
 *†Joplin Foundry Co.
 *†Webb City & Carterville Foundry & Machine Works (Mining Machinery & Grey Iron Castings)
 *†Webb City Stove Co. (Stoves)
 WEST PLAINS—*Summers, W. L.

MONTANA.

ANACONDA—*†Anaconda Copper Mining Co.
 BILLINGS—*†Billings Foundry & Machine Co.
 BUTTE—*†Anaconda Copper Mining Co.
 *†Montana Iron Works
 *†Western Iron Works
 GREAT FALLS—*†Great Falls Iron Works Inc. (Fdrs. & Machinists)
 HELENA—*†Caird Engineering Works (Stamp Mills & Castings, etc.)
 *Hansen, C. L. (Machinist)
 *Montana Anchor Fence Co.
 *State Novelty Works (Inc.)
 PHILIPSBURG—Phillipsburg Iron Works

NEBRASKA.

BEATRICE—*†Beatrice Iron Works
 *†Dempster Mill Mfg. Co. (Cultivators, Grain Drills, etc.)
 *Kees, F. D., Mfg. Co. (Hardware Specialties, etc.)
 CENTRAL CITY—*Jensen, P. K. (Ties, etc.)
 DAVID CITY—*Barker Mfg. Co. (Garden Weeders, etc.)
 FAIRBURY—*†Fairbury Iron Works & Windmill Co.
 FALLS CITY—*Harris & McCreery Machine Shops
 FREMONT—*†Fremont Fdry. & Machine Co.
 GRAND ISLAND—*†Kucera Windmill, Mach. & Fdry. Co.
 HASTINGS—*Brueningsen, F. (Machinist)
 *†Hastings Fdry. & Iron Works
 HASTINGS—*Brueningsen, F. (Machinist)
 HEBRON—*†Nickel, Chas.
 HILDRETH—*†Hildreth Mfg. Co.
 KEARNEY—*†Kearney Fdry., Machine & HOLDREGE—*†Hultquist Bros. Auto Co.
 LINCOLN—*†Capital City Iron Works (Moss-holder & Golladay, Props.)
 *†Cushman Motor Co. (Engines & Motors, Gasoline)
 *†Eureka Mfg. Co. (Grain Grading Machinery)
 *†Frisette, Isaac (Machinist)
 *†Hedges, C. E.
 *Nebraska Mfg. Co. (Agrl. Impls., etc.)
 *†Reddig, Mossholder & Co.
 *†Smith, R. L. Machine Works (Steam Pumps, Castings, etc.)
 *Westover, John (Structural Steel & Bridge Works)
 NEBRASKA CITY—*†Eccleston, F. B. & *†Faultless Caster Co. (Casters, etc.) Co.
 *†King Drill Mfg. Co.
 NORFOLK—*†Norfolk Foundry & Mfg. Co.
 OMAHA—*†Albrecht, O. A. & Co. (Machy.)
 *†American Smelting & Refining Co. (See N. Y. City)
 *Andreen, Gustav (Safes, etc.)
 *Davis, Joseph S.
 *†Deere, John, Plow Co. (Agrl. Impls., etc.)
 *Ely, Allen P. & Co. (Machinery, etc.)
 *†Jubilee Mfg. Co. (Sad Irons, etc.)
 *Larsen-Baker Ice Machine Co. (Ice Machines)
 *†Liddell, Jno.
 *McDonald Bros. (Brass Fdrs.)
 *Melchior, P. Machine Works (Machinists)
 *Omaha Electrical Works
 *†Omaha Stove Repair Works
 *Omaha Structural Steel Works
 *†Paxton & Vierling Iron Works (Iron Fdrs. & Builders' Iron Work)
 *†Wearne Bros. (Iron Fdrs.)
 *Western Electrical Co.
 PLATTSBROUGH—*†Burlington Route Shops
 YORK—*†York Foundry & Engine Works (Engineers, Machinists & Founders, Grain Elevators, Conveying & Power Transmitting Machy., etc.)

NEVADA.

CARSON CITY—Virginia & Truckee Ry. Shops
 RENO—*†Nevada Engineering Works
 *Western Machinery & Mining Supply Co. (Gasoline Hoists, etc.)
 RHYOLITE—*†Southern Nevada Iron Wks.
 NEW HAMPSHIRE.
 BERLIN—*†Berlin Foundry & Machine Co.
 BRENTWOOD—*†Robinson, A. J. (Water Wheels)
 BRISTOL—*†Holmes, Chas. W. (Machinist)

CANAAN—*Flint, Edwin (Machinist)
 CHESHAM—*Russell, Edw. G. (Machinist)
 CLAREMONT—*Burns, John W. (Jobbing)
 *†§Sullivan Machinery Co. (Rock Drills & Mining Machy., etc.)
 CONCORD—*†§Concord Foundry & Machine Co.
 *Cushman Electric Co. (Electric Motors, etc.)
 †Ford, Wm. P. & Co. (Stoves)
 *†§Ford & Kimball (Brass & Iron Fdrs.)
 *National Separator & Machine Co. (Turret Drill Presses, etc.)
 CONTOOCOOK—*Kingsbury & Davis Machine Co. (Paper Box Machy.)
 DOVER—*Davis, Herbert M. (Machinist)
 *†§Kidder Press Co. (Printing Presses, etc.)
 *†White, John A. Co. (Woodworking Machinery)
 EAST CONCORD—*§Badger, Franklin L.
 *Eastman, Samuel & Co. (Nozzles, etc.)
 EXETER—*§Exeter Brass Works (Plumbing Specialties & Brass Fdrs.)
 *†Exeter Machine Works (Heating Apparatus, etc.)
 *Lane, G. W. & C. A. (Grinding Mills, etc.)
 FRANKLIN—†Beaupre Bros.
 *Griffin, G. W. & Co. (Woodworking Machy., Jig Saws, etc.)
 *†Kidder Machine Co. (Paper & Pulp Mill Machy.)
 *Mayo Knitting Machine & Needle Co. (Knitting Machines)
 HINSDALE—*Granite State Mowing Machine Co. (Lawn Mowers & Trimmers)
 *Holman, Jason R.
 †Tilden, Frank W. (Iron Fdry.)
 KEENE—*Hill, Dan L.
 *Hubbard, H. W. (Jobbing Work)
 *†Humphrey Machine Co. (Water Wheels, etc.)
 *Sargent, George W.
 LACONIA—*American Twist Drill Co. (Knitting Machines)
 *†Esty Sprinkler Co. (Mach. & Fdry. & Esty, Wm. Fire Extinguishers)
 *Huse, Warren D. & Son (Knitting Machinery)
 *†§Laconia Car Co. Works. (See Boston, Mass.)
 *†McGloughlin, Jas.
 *Mayo, Geo. D. Machine Co. (Knitting Machinery, etc.)
 LAKEPORT—*Bickford, H. & Co.
 *†§Cole Mfg. Co. (Rotary Planers Saw Mill Machy., etc.)
 *Crane Mfg. Co. (Knitting Machines)
 LANCASTER—*Sleeper, C. W. (Engineer & †Thompson Mfg. Co. Machinist)
 LEBANON—*†Cole, S. & Son
 *Kendrick & Davis (Watchmakers' Tools & Electrical Specialties)
 *Purmort, Martin V. (Band Saws, Planers, etc.)
 MANCHESTER—*†American Locomotive Co. (Locomotives). (See New York City)
 *†§Amoskeag Mfg. Co.
 *Corey, Wm. Co. (Knitting Machines, Needles, etc.)
 *Dodge Needle Co. (Latch Needles for Knitting Machines, etc.)
 *Lacene Mfg. Co. (Shoe Machy.)
 *Leighton Machine Co. (Knitting Mach'y)
 *Smith, John A. V., Co. (Fly-Frame Fliers for Textile Mills)
 NASHUA—*American Shearer Mfg. Co. (Sheep Shearing Tools, etc.)
 *Flather, E. J. Mfg. Co. (Machine Tools)
 †Flather Foundry Co. (Iron Fdrs.)
 *Flather & Co. (Machine Tools, etc.)
 *Flather, Mark, Planer Co. (Planers, etc.)
 *†§Highton, Wm. & Sons (Hot Air Registers, etc.)
 *Improved Paper Machinery Co. (Paper & Pulp Mill Machy.)
 *International Paper Box Machine Co. (Paper Box Mach'y)
 †Nashua Co-Operative Iron Foundry Co.
 *Nashua Machine Co. (Machinists)
 *Nashua Novelty Works (Toys, etc.)
 *Nashua Saddlery Hardware Co.
 *Rollins Engine Co. (Engines, etc.)
 *Spencer & Rideout (Power Cloth Presses, etc.)
 *†White Mountain Freezer Co. (Ice Cream Freezers, Light & Heavy Grey Iron Castings, etc.)
 NEWFIELDS—*†Grant, Walter B.
 *Wiggin, Geo. B. (Jobbing)
 NEWTON JUNCTION—*Brown, Emma C.
 NORTH GROTON—*Kidder, Dan'l & Son (Machinists)
 PENACOOK—*†Concord Axle Co. (Stone Polishing Mach'y, Axles, Brass Castings, etc.)
 *§Hoyt Electrical Instrument Works (Electrical Instruments)

PETERBORO—*White's, Sam'l G. Sons
 PORTSMOUTH—*Chadwick & Trefethan (Expanding Reamers, etc.)
 *Ellery Twist Drill Co.
 *Goodall & Tolman
 *†U. S. Navy Yard
 ROCHESTER—*†Furnald, John C.
 *†§Rochester Fdry. & Machine Works
 SALMON FALLS—†Somersworth Foundry Co. (Stoves, Ranges, etc.)
 SOMERSWORTH—*Brackett, Shaw & Lunt Co. (Gasoline Engines, etc.)
 SUNAPEE—*†Smith, N. A.
 *U. S. Hame Co. (Wood Hames)
 UNION—§Hamlin, E. T. Brass Co.

NEW JERSEY.

AMPERE—*Crocker-Wheeler Co. (Electric Machy.)
 ARLINGTON—*§Lovell, F. H. & Co. (Brass & Copper Goods)
 *Stiles, T. George, Co. (R. R. Appliances)
 ASBURY PARK—*†§Murphy Foundry & Mfg. Co.
 *Parison, Richard F.
 *Sooy & Hogg
 ATLANTIC CITY—*Bowen, F. H.
 *Corkran & Maloney
 *Seashore Machine Works (Inc.)
 BARTLEY—*†Bartley, R. C. Co. (Steam Heaters)
 *†§Bartley, Wm. & Sons (Saw Mill Machy.)
 BAYONNE—*†Babcock & Wilcox Co. (Water Tube Boilers, etc.) Main Office: New York City
 †§Clark's Iron & Brass Foundry
 *Crane & Whitman Co. (Auto Builders, etc.)
 *Edwards, Leroy
 *Electric Launch Co. (Gas Engines, Launches, etc.)
 *Electro-Dynamic Co. (Electrical Specialties)
 *Ely's, Philip Sons Co. (Machinery, etc.)
 *†§Goubert Mfg. Co. (See New York City)
 *Star Expansion Bolt Co. (Expansion Bolts, etc.)
 BELFORD—*Walling, Luther
 BELLEVILLE—*†§Eastwood Wire Mfg. Co. (Iron, Brass & Bronze Castings, Special Machy., etc.)
 *Eck Dynamo & Motor Works (Generators & Motors)
 *Hoppen, J. E. & Sons
 BEVERLY—*†Elba Iron Works
 BLOOMFIELD—*†American Malleables Co. (See Lancaster, N. Y.)
 *Empire Cream Separator Co. (Cream Separators)
 *§Jenkins Mfg. Co. (Brass & Composition Castings of all kinds & Plumbers' Brass Goods, etc.)
 *Sprague Electric Co. (See New York City)
 †Taylor, Jas. L. Mfg. Co. (Iron Clamps, etc.)
 *Tower & Lyon Co. (Hardware, etc.)
 BOONTON—†German-American Foundry Co.
 *Whitehead, Oscar P. (Machinist)
 BORDENTOWN—*†Rice, Jno. V., Jr. & Co. Founders, Gas & Gasoline Engines, etc.)
 *†§Riverview Iron Works
 *Swift, Geo. W., Jr. (Machy., etc.)
 BOUND BROOK—*†American Engine Co. (Engines)
 *†§Timmis & Clissold
 BRIDGETON—*†Bridgeton Iron Works
 *Cox Bros. (Canning Mach'y, etc.)
 *†Cox & Sons Co. (Engines & Heating Apparatus)
 *Crescent Art Metal Co. (Sheet Metal Working Machy., etc.)
 *Hettinger Engine Co. (Gas & Gasoline Engines, etc.)
 BURLINGTON—*†§Devlin, Thos., Mfg. Co. (Saddlery Hardware, etc.) (See Phila., Pa.)
 †Lindsay, John C. & Co.
 *†Stuart & Peterson Co. (Enamelled Iron Ware, etc.)
 *†U. S. Cast Iron Pipe & Fdry. Co. (Cast Iron Pipe). (See New York City)
 CAMDEN—*American Addograph Co. (See Phila., Pa.)
 *Blair Mfg. Co. (Machinists' Tools)
 *†Camden Foundry Co.
 *†Camden Iron Works (Pumping Machy., etc.). (See Phila., Pa.)
 *§Camden Metal Co.
 *†§Dialogue, John H. & Son (Iron & Steel Ship Builders)
 *Estabrook Steel Pen Mfg. Co. (Steel Pens)
 *Frank, Martin J. & Co.
 *Groff Drill & Machine Tool Co. (Ratchet & Track Drills, etc.)
 *Hunt, C. Howard Pen Co. (Steel Pens)
 *Industrial Mfg. Co. (Sewing Machines)
 *Lambert & Todd Machine Co.
 *Mathis, John H. & Co. (Ship Builders)
 *Morton, Wm. W. & Co. (Machinists)

*New Jersey Wire Stitching Machine Co.
 *New York Ship Building Co. (Iron & Steel Ship Builders)
 *Phoenix Meter Co. (Gas Meters & Appliances)
 *Quigley, Davis & Dorp (Machinists & Ship Builders)
 *Smith & Sinclair (Machinists)
 *†Southwark Scale Co. (Scales, etc.)
 *Victor Talking Machine Co. (Talking Machines)
 §Voigt Metal Co. (Brass Fdrs.)
 *Webster, Warren & Co. (Machinists & Feed Water Heaters, etc.)
 *†Wood, R. D. & Co. (See Phila., Pa.)
 CARLSTADT—*Bergen Mfg. Co. (Machinists)
 §Klaser, S., & Co. (Plumbers' Brass Goods)
 CARTERET—*†§Wheeler Condenser & Engineering Co. (See New York City)
 CEDAR BROOK—*Bailey, Frank (Dyeing Machines, etc.)
 CEDARVILLE—*Garrison, H. S. (Sand Washing Machines)
 CHROME—*†Chrome Steel Works (Chrome Steel & Specialties)
 DOVER—*McKiernan Drill Co. (See New York City)
 *†§Morris County Machine & Iron Co. (Mining & Pumping Machinery, etc.)
 *†Richardson & Boynton Co. (Stoves). (See New York City)
 DUNELLEN—*RANSOME CONCRETE Machinery Co. (Concrete Mixers, Cranes, Hoists, etc.) (See adv. index, end of book)
 EAST NEWARK—†§Hewitt, John Foundry Co. (Iron, Brass & Aluminum)
 *Horstmann, F. W. Co.
 EAST ORANGE—*Collinson, Joshua
 ELIZABETH—*†American Gas Furnace Co.
 *American Swiss File & Tool Co. (See New York City)
 *Ball & Wood Co. (Steam Engines). (See New York City)
 *Braunsdorf-Mueller Co. (Tools, etc.)
 *†§BROWN, A. & F. CO. (See New York City)
 *†Colwell Lead Co. (Plumbers' Supplies) Office, New York City
 *Diehl Mfg. Co. (Electric Fans, etc.)
 *Duncan Bros. (Machinists)
 †Elizabeth Foundry Co.
 *Elizabeth Machine & Iron Works (Engines, Special Machy., etc.)
 †§Harris-Kilpatrick Brass Co.
 *Kelly, P. J. (Tool Holders, Tops, Thread Cutters, etc.)
 *Kluin, E., & Sons
 *Kullander, Chas. (Machinist)
 †Meyer, Frederick
 *†§Moore, Sam'l L. & Sons Corp. (Machinists, Iron & Brass Fdrs.)
 *†Moore Bros. Co. (High Grade Grey Iron Castings & Machine Work)
 *Redfield, Robt. S., & Co. (Filter Presses, etc.)
 *†§Singer Mfg. Co. (See New York City)
 *Stephenson, John Co. (Electric Car Builders). (See New York City)
 †United States Gate Bar Co.
 *Walsh, James J. (Calculating Machines)
 ELMER—Charlesworth, G. A. (Millwright & Machinist)
 *Woolbert, Chas. W. (Millwright, etc.)
 ENGLISHTOWN—*Farrington & Co. (Springs)
 FLEMINGTON—*†§Floran Foundry & Mfg. Co.
 *Mallory Mfg. Co. (Hdw. Specialties)
 FLORENCE—*†§Florence Iron Works (See Phila., Pa.)
 FORT LEE—*Vogel, Chas. (File-Cutting Machines)
 FRANKFORD—*Clawson, C. C.
 FREEHOLD—*†Bawden, J. H. Co.
 *Stokes Bros. Mfg. Co. (Rasps, Files, etc.)
 GARWOOD—*Bell Electric Motor Co. (See New York City)
 *†§Garwood Bronze & Iron Works (Grey Iron, Brass, Bronze & Aluminum Castings, etc.)
 *†Garwood Electric Co. (Dynamoes, Motors, etc.)
 *†Thatcher Furnace Co. (See New York City)
 GLASSBORO—*†Carnell, Wm. & Son
 GLOUCESTER CITY—*†Rogers, John M., Works (Machinists' Fine Tools, etc.)
 GRENLOCH—*†Bateman Mfg. Co. (Agrl. Implements & Light Grey Iron Castings)
 HACKETTSTOWN—*†American Sawmill Machinery Co. (Saw Mill Machy., etc.)
 *†§Bowers, Michael B.
 *†Drake, W. H. (Steam Heating Apparatus)
 HADDONFIELD—†Reeves, S. V. (Stoves, etc.)

HAINESPORT—†Ronalds & Johnson Co. (Cast Iron Soil Pipe & Plumbers' Castings). (See New York City)
HARRISON—†American Radiator Co. (See Chicago, Ill.)
 *Binsse Machine Co. (Machine Tools, etc.)
 *General Electric Co.
 †Graff, Regen & Cooke (Inc.)
 *†Greenfield, W. G. & G. (Steam Engines, Pumps, Screw Presses, etc.)
 *Hyatt Roller Bearing Co.
 *†**MARINE ENGINE & MACHINE** Co. (Electric Elevators, Pumps, Castings & Machine Work of All Kinds, Castings 100 lbs. to 40,000 lbs. (See adv. index, end of book)
 ***NATIONAL HOISTING ENGINE CO.** (Hoisting Engines, etc.) (See adv. index, end of book)
 *Osborn, C. S., & Co. (Harnessmaker's Tools, etc.)
 *Parker-Bruen Mfg. Co. (Fire Escapes, etc.)
 *†Shriver, T., & Co. (Brass & Grey Iron Castings, Cranes, Presses, Powder Mill & Sugar Machy., etc.)
 *Torrance Mfg. Co. (Textile Machy.)
HASBROUCK HEIGHTS—*Hicks, Geo. J. (Bakers' Machy.)
 *Olmstead, L. H. (Machinist & Power Hack Saws, etc.)
HIGH BRIDGE—†Taylor Iron & Steel Co. (Steel Castings & Steel Specialties)
HIGHTSTOWN—*Peppier, Thomas (Agrl. Impls.)
 *†Wickoff, Chas & Bro.
HOBOKEN—*Atkinson, Wm. H., Co., ft. 7th
 *Autographic Register Co., 10th, Clinton & Grand
 *Baker, Wm. C. (See New York City)
 *Brewster Engineering Co. (Blowers & Exhausters, Air Compressors, etc.)
 *Buchholz, Carl, Co. (Wrought Iron & Brass)
 *Consolidated Iron Works (Engines, etc.)
 *†Fagan Iron Works (Machy., etc.)
 *†Ferguson, F. & Son (Grate Bars, Propeller Wheels, Machinery, Heavy Green Sand, Castings, etc.)
 *†Fletcher, W. & A. Co. (Marine Engines, etc.), 14th & Hudson
 *†Focht's, Geo. Sons (Dumping Tubs & Buckets, Castings, etc.)
 *Hoboken Brass Foundry, 7th & Madison
 *Hunter, Wm.
 *†Kueffel & Esser Co. (Engineering Instruments, etc.)
 *Lutz, Alois M. (Elec. Fixtures, etc.)
 *†New York Switch & Crossing Co. (Frogs, etc.)
 *†Oltmer Iron Works (etc.)
 *†Oriental Metal Bed Co. (Brass & Iron Bedsteads), Grand, Clinton & 8th
 *†Pels, Henry, & Co. (See N. Y. City)
 *Penna. R. R. Shops, ft. 12th
 *Prentice, John
 *†Reedy Elevator Co. (See New York City)
 *Schimper, Wm. & Co. (Metal Goods of Every Description, Spinners, etc.), 322 Ferry
 Tietjen & Lang Dry Dock Co. (Shipwrights & Machinists), foot 17th
 *†Union Iron Works (Dump Cars, Tubs, Buckets, Iron & Brass Castings, Coal & Ore Dumping Machinery, etc.)
HOPE—*†Aten, Henry
IRVINGTON—Irvington Mfg. Co. (Tools, etc.)
 *Rademacher, A. E. (Scales, etc.)
 *Tidey, Fred (Wood Working Machinery)
JERSEY CITY—*Ames, W. & Co. (Machine Shop for Repairs)
 †Berthe, Albert, 3718 Hudson boul
 *†Boynton Furnace Co. (Iron Fdrs., Furnaces, Ranges & Heaters), Pacific av. opp Bramhall av. (See New York City)
 *†Brady Brass Co. (Brass Fdrs. & Finishers), 202 10th
 *Clute, H. C., 380 Wayne
 *Cockburn Barrow & Machine Co., 234 11th
 *Colby, E. B., & Co. (Stoves, etc.)
 *Corcoran, A. J., Inc. (Pumps, Windmills, Tanks & Towers, etc.)
 *Davis, Jas., & Son (Elevators, etc.), 463 Pacific av
 *Erle R. R. Machine Shops, Provost & 11th
 *Flynn, W. S. (Marine Engines & Boilers, etc.)
 *Frank & Hedden Co. (Tools, etc.), 33 Sussex
 *Fraser Mfg. Co. (Coffee Machy., etc.), Henderson & 13th
 *†Gibson Iron Works Co. (Fdrs. & Machinists, Dumping Grates, etc.), 170 1st
 *†Gothberg, H. & E. (Brass & Bronze Finishers), 139 Cator av
 *Gould & Hedley, 113 Plymouth

†***GRISCOM-SPENCER CO.**, Grand & Sussex. (See New York.) (See adv. index, end of book)
 *Hamill, Alex (Structural & Ornamental Iron Work), 426 Montgomery
 †Hudson Foundry Co.
 *†Hitchings & Co. (Green House Bldrs.)
 *Hull Bros., 54 Hudson
 *Jersey Development Co. (Dies & Tools), \$Kato Mfg. Co. (Bronzes, etc.) 46 Morris
 *†Kellogg, M. W., Co.
 *Koven, L. O., & Bro. (Heavy Sheet Metal Works, etc.)
 *Koven, Theo. (Machinist), 235 Sherman av
 *Krouse, Geo. (Heavy Brass & Phosphor Bronze Castings), 154 Morgan
 *†McCabe, Jas. J., 362 10th. (See New York City)
 *McLaughlin, Thos., 53 Essex
 *Mack, Thos. A. Mfg. Co. (Machinists), 401 St. Paul's av
 *†Magnus Metal Co., 364 9th
 *†Marcy Stove Repair Co., 340 Grove
 †Mersereau Metal Bed Co., 292 Johnston av
 *Miller, Alex & Bro. (Engineers, Machinists & Bollermakers), 10 Morris
 *New Jersey Car Spring & Rubber Co. (Car Springs, etc.), R. R. av. & Brunswick
 †New York Metallic Bedstead Co., 198 Pacific av
 *†Patterson-Allen Engineering Co., "Valves, etc.," West Side av. (See New York City)
 *Rossiter, MacGovern & Co., ft. Morris. (See New York City)
 Schalkenbach & Budke (Dumping Buckets, etc.), 402 Claremont av
 *Schroeder, Edw., Lamp Wks. (Brass Goods, Lamps, etc.), 716 Jersey av
 *†See, A. B., Electric Elevator Co. (Elevators, etc.), Pacific av
 *†Smith, Theo. & Sons Co. (Machinists & Fdrs.), ft of Essex
 *†**SNEAD & CO. IRON WORKS** (Iron Founders & Builders, Iron & Steel Work), ft of Pine. (See adv. index, end of book)
 *†Spindler & Deringer (Brass Finishers, etc.), 243 Mercer
 *†Steele & Condict (Inc.) (Rock Crusher Parts, Castings & Refrigerating Machines)
 †West Bergen Iron Fdry. (Powell Bros. Props.), 261 Grant av
 *West Pulverizing Machine Co., 40 Pollock av
 *White, Geo. Co. (Automatic Machinery, etc.), 24 Morris
 *Wickes Bros., West Side av. & Claremont (See Saginaw, Mich.)
 *Williams, E. A. & Son (Brass & Bell Founders), 105 Plymouth
KEARNY—\$Nelson & Bone
KENILWORTH—†Wright, Chas. E. (Wood Working Machy.)
LAMBERTVILLE—†Coombe & Massey
 *Kukler, Layton T.
LEBANON—*†Sovereign Foundry & Mfg. Co. (Saw Mill Machinery, Castings, etc.)
LINCOLN—*†Atlas Mineral & Machine Co. (Mining Machinery, etc.)
LYNDHURST—*†Leslie Co., Inc. (Pressure Regulators, Brass & Bronze Castings)
MADISON—†Force, C. C. & Son (etc.)
MAHWAH—*†American Brake Shoe & Foundry Co. (Brake Shoes & Miscellaneous Iron & Steel & Grey Iron Castings, etc.)
MATAWAN—*†Levett Mfg. Co. (Dynamometers & Plater's Supplies)
 *†Matawan Steel & Iron Co.
METUCHEN—*Borgfeldt, N. H. & Co. (Cigar Machy.)
MILLINGTON—*Nash, Duane H. (Inc.) (Harrows)
 *Nishwitz Mfg. Co. (Harrows)
MILVILLE—*Owen, Isaac A. Jr. (Machinist)
MORRISTOWN—*Dutton, Willis H. Co.
 *Genung & Hedges (Machinists)
MOUNT HOLLY—*†Risdon-Alcott Turbine Co. (Turbines, etc.)
MULLICA HILL—*†Hoffman, J. M.
NAUGHRIGHT—*†Hopler Bros. (Heaters, etc.)
NEWARK—*Ahrend, Herman & Son (Locks, etc.), 179 Van Buren
 *Albee, H. M. (Hatters' Machy.), 24 Boudinot
 *Almond, David (Hat & Fur Machy.), 27 Hackett
 *American Transformer Co. (Electrical Specialties), 145 Miller
 *Anderson, Geo. & Co. (Diamond Cutting Machines)
 \$Art Metal Works (Bronzes etc.), 7 Mulberry

*†Atha Steel Casting Co. (Steel Castings)
 *Atha Tool Co. (Cast Steel Tools, etc.), ft. of Chapel
 *Automatic Weighing Machine Co. (Automatic Weighing Machines)
 *Backus Water Motor Co. (Water Motors, etc.), 172 Penna. av.
 *Bailey, Wm. J. (Jewelers' Tools, Dies, etc.), 52 Columbia
 *†Barlow Foundry Co. (Grey & Malleable Iron Castings)
 *†Barnett, Oscar, Foundry Co. (Tools & Grey Iron Castings, etc.), 105 Hamilton
 *Belcher, Jos. H., 231 Mulberry
 *Bernz, Otto (Plumbers' Tools & Specialties, etc.), 27 Ashland
 *†Bless & Drake (Inc.), 175 N J R R av
 *Blevney, Jno. C. (Friction Clutches, etc.), 216 High
 *§Brabson Bros. (Saddlery Hardware), Liberty & Hamilton
 §Brass Founders' Supply Co. (Brass Molds, etc.), 20 Prospect
 *Brooks, E. J. & Co. (Inc.) (See New York City)
 §Buerman, August (Saddlery Hdwe., etc.)
 †Burns, Thos. H. & Son, 201 Commerce
 *Burroughs, Charles Co. (Machinist & Hydraulic Machinery), 141 Commerce
 §Bushauer, Peter (Est. of) (Brass Fdry.) 261 Elm
 *†**CENTRAL FOUNDRY CO.** (See New York City). (See adv. index, end of book)
 *§Chambers & Co. (Brass Work for Steam, Gas & Water & Brass & Composition Castings)
 *Chapman, W. H. & Co. (Machinists), 227 Mulberry
 *Chase, Edw. O. (Fine Machy.), 50 Lawrence
 *†Clark, Jas. T. Co. (Edge Tools, etc.), 72 Adams
 Climax, J. H. W., Co. (Locks, Latches, etc.), 275 Passaic
 *†Currier, Cyrus & Sons (Paper Mill Machinery, Cranes, etc.)
 *Delany, D. & Son (Carriage & Wagon Springs, etc.), 2 Liberty
 *Dennis Mfg. Co. (Stone Working & Special Machy., etc.), 263 Passaic
 *Diffany & Co. (Jewelers' Dies, etc.), 29 Congress
 *†Domestic Sewing Machine Co., 98 Warren
 *Drake, M. S. (Machinist)
 *†Drake, W. H. (Heaters, etc.), 36 Clinton
 *Ellis Adding Typewriter Co. (Adding Machines), 204 Morris
 *Emory, Robt. J. & Co. (Machinists), 27
 *†Essex Fdy., Murray & Av D Runyon
 *§**FOSTER ENGINEERING CO.** (Steam & Engineers' Specialties, etc.) (See adv. index, end of book)
 *Freeman, Arthur W., 67 N. J. R. R. av
 †Goeller Iron Works (Builders' Iron Work), 394 Frelinghuysen av
 §Goldsmith, C. A. (Brass Fdry.), 42 Cutler
 †Gould & Eberhardt (High Class Machine Tools), 111 N. J. R. R. av
 *§Gould's, M. Son & Co. (Brass Goods, etc.), 61 Hamilton
 §Griffoul, August
 *Groch, Max, 41 Av L
 *§Hanson & Van Winkle Co. (Platers' Machinery & Supplies)
 *Harding Edge Tool Co. (Axes, etc.), Oliver & McWhorter
 *Harrison & Knight Mfg. Co. (Machinists' Tools, etc.), 211 Vrona av
 *Hartig Standard Gas Engine Co., 14 Commercial
 *†Hay Foundry & Iron Works (Builders' Castings & Iron Works), 93 Plum Point la
 *Healy, Geo., 11 Alling
 *§Hedges & Bro. (Brass Castings & Finishers & Plumbers' Brass Goods), 10 R. R. pl
 *Heller Tool Co. (Farriers' Tools, etc.)
 *†Hewes & Phillips Iron Works (Corliss Engines & Iron & Brass Castings)
 †Hewitt, Jno., Foundry Co. (Iron, Brass & Aluminum Castings)
 *Huebel Mfg. Co. (Padlocks, etc.), 103 Monroe
 *Hydraulic Co. (Gas Stoves & Ranges), 8 Lum
 *†Isbel-Porter Co. (See New York City)
 *§Jost's, Edmund, Sons (Machinists & Fdrs.), 48 Dickerson
 *King, Wm. H., 25 Canfield
 *†**LAMBERT HOISTING ENGINE** Co. (Hoisting Engines & Hoisting Machinery, etc.). Office & Works, 115 Polner. (See adv. index, end of book)
 *La Vergne Pump & Machine Co. (Power Pumps, etc.)

§Lawrence, L. & Co., 292 Halsey
 *†Lidgerwood Mfg. Co. (See N. Y. City)
 †Lienau's, C. C. Sons, 308 Fairmount av
 *§Lovell-McConnell Mfg. Co. (Electrical Appliances)
 *Lowentraut, P. Mfg. Co. (Skates, Tools, etc.), 36 Brenner
 *Loy & Nawrath (Sheet Metal Working Machinery), 25 Runyon
 *†McCabe Boiler Works (Steam Boilers, Sinoke Stacks, etc.), 193 Commerce
 §McCarthy, John (Brass Fdry.), 745 N 6th
 *McLeod, Jno. H. (Leather Finishing Machy.), 17 Treat pl
 †Maher & Flockhart (Iron Fdrys.), 76 Polk
 *Marx-Winkler Co., 475 Washington
 †Meeker Foundry Co. (Malleable & Grey Iron Castings), 95 Clay
 †Metcalf, Jas. & Co. (Machinery Builders, Castings, etc.), 126 Polk
 *Meyer Machine & Tool Works (Tools, Dies & Moulds), 88 McWhorter
 *Millington & Bradshaw (Tools & Machinery), 69 N. J. R. R. av
 *Morgan, Edward (Special Machinery), 15 Franklin
 †Morrison Foundry Co., 111 Gotthart
 *Muller, Fred (Hat Machy.), 214 Lackawanna
 *†MUNDY, J. S. (Hoisting Engines, etc.) 22 Prospect. (See adv. index, end of book)
 *National Lock Washer Co. (Lock Washers, etc.), 65 Johnson
 *National Saw Co. (Saws & Sawing Specialties), 15 River
 *§Newark Brass Works, 17 Mulberry
 *Newark Gas Engine Co. (Gas Engines), 676 N 6th
 *Newark Gear Cutting Machine Co. (Gear Cutting Machines & Special Machinery)
 *Newark Leather Machinery Co. (Leather Working Machinery)
 *Newark Rivet Works, 262 Lafayette
 §New Jersey Aluminum Co. (Aluminum Castings)
 *Noble & Hunt (Machinists), 359 Mulberry
 *Ohl, Geo. A. & Co. (Sheet Metal Working Machy., Trunk Mfrs. Machy., etc.), 157 Oraton
 *PFAFF & KENDALL (Pipe Cutting & Threading Machines, Nipples, Columns, etc., Ferry & Foundry). (See adv. index, end of book)
 *§Phoenix Lock Works (Locks, etc.), 3d av. & 4th
 *Plumb, David S. (Clock Movements), 57 Park
 *Positive Lock Washer Co. (Lock Washers, etc.), 181 Miller
 *Redman, C. H. & Co. (Tools, Machines, etc.), 48 Dickerson
 *§Riley-Klotz Mfg. Co. (Metal Goods, etc.)
 †Riverside Mfg. Co. (Furnace Regulators & Heating Specialties), 162 Riverside av
 †Riverside Steel Castings Co. (Crucible Steel Castings)
 *†Royal Machine Co. (Electric, Special Machinery, etc.), 61 N. J. R. R. av
 §Riley-Klotz Mfg. Co. (Trunk & Bag Trimmings), 19 Mulberry
 *Ruesch, H. J., Machine Co. (Jewelers' & Silversmiths' Machy., etc.), 28 Green
 †Sacks, Louis (Iron Fdry) (Grey Iron Castings), Hamburg pl & Av L
 *Sayre, L. A. & Co. (Tools, etc.), 332 Mulberry
 *Seitz, F. A., Co. (Gasoline Motors, etc.), 145 Frelinghuysen
 *Schnefel Bros. (Cutlery & Specialties), 51
 §Schueler, T., & Co. 4th
 *Skinner & Leary (Engineers & Machinists), 13 R. R. pl
 *Skipp, Jas. & Son (Pearl Button Machy.), 25 Hackett
 *Sloan & Chace Mfg. Co. (Ltd.) (Precision Mach'y.)
 *†§Smith, A. P., Mfg. Co. (Tapping Machines, etc.), Passaic av
 *†Smith's, Albert, Sons (Iron Railing, Builders' Hdwe., etc.), 73 N. J. R. R. av
 §Steffens, A. T. & Co. (Saddlery, Hardware), 260 Morris av
 *Sterling-Meaker Co. (Electric Railway Supplies), 420 Ogden
 *Stucky, Jacob, 17 Alling
 *Sun Typewriter Co. (Typewriters)
 *Taylor-Fountain Engineering Co. (Special Machy., etc.), 10 Commerce
 *†Thatcher Furnace Co. (See New York City)
 *Tirrell's Gas Machine Lighting Co. (See New York City)
 *†Traud, Alex., Co. (Castings & Embossing Presses, etc.), 5 Maine

*Tucker, C. F. & Co. (Tool Makers), 93 Green
 *†§Turner Machine Co. (Iron & Brass Fdrys. & Special Machy.)
 *†§Universal Caster & Foundry Co. of N. J., 108 Adams
 *†Watts-Campbell Co. (Corliss Engines & Iron & Brass Castings), 298 Ogden
 *§Wheaton, A. W., Brass Works (Brass Fdrys. & Finishers)
 *White, Ira F. & Son (Hdw. Specialties, etc.), 144 Walnut
 *§Whitcomb, Ed. A. (Saddlery, Hdw., etc.)
 §Wicner-Barnet Co. (Saddlery, Hdw., etc.)
 *Wright, L. Jr. (Machine Works), 9 Alling
 *Yule & Carley Mfg. Co. (Hat Machy.), 28 Eagles
 *Zeh & Hahnemann (Presses, Dies, etc.)
 §Zusi, Edward, 80 Mechanic
 §Zusi, Edw. A. (Brass Fdry.), 101 Monroe
 NEW BRUNSWICK—*Consolidated Fruit Jar Co. (Metal Specialties)
 *Crawford Mfg. Co. (Machinery Mfrs.)
 *†Empire Foundry Co. (Grey Iron Castings from 1 pound to 5 ton)
 *†Henderson, Wm., & Son
 *Kilbourn Knitting Machine Co. (Knitting Machinery, etc.)
 *Kilbourn Mfg. Corp'n (Mach'y)
 *Lea, Thos. (Boring Tools, etc.)
 *†§Marine Mfg. & Supply Co. (See New York City)
 *Neverslip Mfg. Co. (Horseshoes & Toe Calks)
 *Potter Mfg. Co. (Motors, etc.)
 *†Waldron, Jno. Co. (Machinery & Castings)
 OCEANIC—*Yerrington, Henry W.
 ORANGE—*Bates Mfg. Co. (Automatic Numbering Machines, etc.)
 *Bulkley, Henry W. (Steam Pumps & Condensers)
 *Edison Mfg. Co. (Electrical Specialties)
 *Edison Phonograph Works, Inc. (Phonographs)
 *National Phonograph Co. (Phonographs)
 *Orange Machine & Mfg. Co. (Machinists)
 *Pike Adding Machine Co. (Adding Machines)
 *Townsend, S. P. & Co. (Lawn Mowers)
 PASSAIC—†Binns, Henry (Iron Fdry.)
 *De Vries Bros. (Machinists)
 *†§Eagle Iron & Brass Foundry (Inc.)
 *Lyall, J. & W. (Textile Machy., Looms, etc.)
 *†Robins Conveying Belt Co. (Conveying Machy. & Hoisting)
 *Standard Sheet Metal Co. (Air & Automobile Pumps, etc.)
 *Uehling Instrument Co. (Pyrometers, Composemeters, etc.)
 *†Wonham-Magor Engineering Works (Steel Cars, Track Switches, Turntables, etc.)
 PATERSON—*†§American Locomotive Co. (Locomotives). (See New York City)
 *§Asbell, S. J. Co. (Brass Goods)
 *†Atherton Mach. Co. (Textile Mach'y, etc.)
 †Barker, Fred. Co. (Iron Fdrys.)
 *Bogert-Carlough Co.
 *§Casson, Robert H.
 *†Eastwood, Benj. Co. (Textile Mach'y., Shafting, Pulleys & Hangers, Iron & Brass Castings, etc.)
 *†Finigan-Zabriskie Co. (Cordage Mach'y, etc.)
 †Fischer Mfg. Co.
 †Hilton, Saml.
 *Johnson-Van Vlaanderen Machine Co.
 *King-Quick-Gerber Co. (Machinists)
 *Knapp, C. F. (Textile Machy, etc.)
 *†§McNab & Harlin Mfg. Co. (See New York City)
 *†Rogers Locomotive Works (See New York City)
 *Royle, John & Sons (Photo Engraving, Rubber & Textile Machy., etc.)
 *Shaw & Cocker Mach. Co. (Silk Machy.)
 *Sipp Electric & Machine Co. (Gas & Gasoline Engines)
 §Taylor, Robt. & Son (Brass Fdry.)
 *Terhune, J. I. Machine Works (Silk & Velvet Finishing Machy, etc.)
 *†Watson Machine Co. (Cordage & Silk Mill)
 *Widmer Bros. Machy., Castings, etc.)
 *Wood, Warren
 PAULSBORO—*Cox, I. G. & Bro. (Agricultural Implements, etc.)
 PENNINGTON—†Union Boiler Co. (Boilers, etc.)
 PERTH AMBOY—*Ely-Norris Safe Co. (Safes)
 §Hoyt Metal Co. (See St. Louis, Mo.)
 †Marcy Stove Repair Co. (Stove Repairs)
 *Perth Amboy Dry Dock Co. (Safes)
 *†§Perth Amboy Foundry & Machine Co.
 *Raritan Dry Dock Co.
 *†§Schantz & Eckert (Machinery Builders)

PHILLIPSBUDD — *†§Firth, Roland & Son
 *†§INGERSOLL - RAND CO. (See New York City. (See adv. index, end of book)
 *Tippett & Wood of book)
 *†Warren Foundry & Machine Co. (Cast Iron Pipe & Water Works Specialties)
 PLAINFIELD—*Lalng Machine Auto Repair Co.
 *Manganese Steel Safe Co. (Safes, etc.)
 *†Niles-Bement-Pond Co. (See New York City)
 Q. M. S. Co. (Cranes, Hoists, Cold Saws, etc.)
 *†Potter Printing Press Co. (Printing Presses, etc.)
 *§Rushmore Dynamo Works (Projectors Acetylene Generators, etc.)
 *†Coott, Walter & Co. (Ptg. Presses, etc.)
 POTTERSVILLE—Excel Mfg. Co. (Grinding Mill, Crushers & Pulverizers)
 RAHWAY—*†Rahway Steel Co. (Steel Castings, etc.)
 RARITAN—*†§Kenyon, D. R. & Son (Textile Machinery)
 RED BANK—†Adcock Fdry. & Machine Co.
 *†Roberts Safety Water Tube Boiler Co.
 RIEGELSVILLE—Taylor, Stiles & Co. (Rag Cutting Machines, etc.)
 ROCKAWAY—†Hoagland's, M., Sons Co.
 ROSELLE—*Shedd Electric Co. (Motors, etc.)
 *§Watson-Stillman Co. (Hydraulic Machinery). (See New York City)
 RUTHERFORD—*†§Fuchs & Lang Mfg. Co. (See New York City)
 SADDLE RIVER—†Packer, W. H.
 SALEM—*Ayars Machine Co. (Canning & Can Making Machinery, etc.)
 *†§Salem Brass & Iron Mfg. Co.
 SMITHVILLE—*†Smith, H. B. Machine Co. (Wood Working Machy., etc.)
 SOMERVILLE—†Carbon Stove & Range Co. (Stoves, Ranges, etc.)
 *†Somerville Iron Works
 SOUTH RIVER—*Kelch Bros.
 SOUTH VINELAND—Bidwell R. O. (Sand Washing Machinery)
 TRENTON—*Auers Hardware Mfg. Co.
 *Baker, Wm. H. (Rubber Mill Machinery, etc.)
 *Barbour Bros. (Dies, etc.)
 *†Billingham, P. & Co.
 *Butterworth, Wm. H. & Bro. (Agl. Implements, etc.)
 *Clifford, C. W. (Tools, etc.)
 *†Crossley Machine Co. (Pottery, Tile & Clay Machinery)
 *†De Laval Steam Turbine Co.
 *†Fisher & Norris (Anvils, etc.)
 *Freeman, E. H. Electric Co. (Electric Specialties)
 *Gillingham, A. B.
 *Ivens, Wm. H. Sons Co. (Pottery, Mattress & Spring Bed Machinery)
 *Logan, W. P.
 *†§McFarland Foundry & Machine Works (Grey Iron Castings & Repairs)
 *†MacKenzie's, Duncan, Sons Co. (Steam Engines, Heavy Machinery, etc.)
 *†§Mott, J. L. Iron Works. (See New York City)
 †Oliphant Steel & Iron Co.
 *†Reeves Engine & Machine Co. (Steam Engines)
 *†Skillman Hardware Mfg. Co.
 *Spracklin Boiler & Machine Co.
 *Stahl, H. E. (Machinist)
 *Steinert, Joseph
 †Superior Iron Works
 *Sutphin, E. E. (Machinist)
 *†Thropp, J. E. Sons Co. (Marine Engines & Rubber Mill Machy, etc.)
 *†Throop, Wm. R. & Sons Co.
 *§Trenton Brass & Machine Co. (Plumbers' Brass Goods)
 *†TRENTON IRON CO. (Elevating & Conveying & Wire Pointing Mach'y.) (See adv. index, end of book)
 *†§Trenton Malleable Iron Co.
 *†§Watson, John & Sons Co. (Axles & Machinists, etc.)
 VINELAND—*Blaisdell Machine Works
 *Frost & Walls (Gasoline Engines)
 *Gage Tool Co. (Tools)
 *Jackson Vise & Tool Co. (Vises, Tools, etc.)
 *Keighley, Wm. B. (Shoe Machinery)
 *Levens Mfg. Co. (Tools, etc.)
 §Weaver, Adam & Son
 WEST HOROKEN—†Courtman, W. F.
 WOODBINE—*Bayard, M. L. & Co. (Tools, etc.)
 WOODSTOWN—*†Wood, Walter A., Mowing & Reaping Machine Co.

NEW MEXICO.

ALBUQUERQUE—*†Albuquerque Fdry. & Machine Works
 EAST LAS VEGAS—*†Adlon, J. C.

NEW YORK.

AKRON—*†Thayer, T. & Son
 ALBANY—†Albany Fdry Co. (Stoves)
 *Albany Steam Trap Co. (Steam Traps, Aluminum Castings, Finishing & Plating, etc.), 319 N Pearl
 *Breslin Bros. (Machinists), 68 Church
 *Brohm & Molitor (Files, etc.)
 *Burdick & Son (Stove Specialties, Dies, etc.), Hamilton & Mosher
 †Campbell, Harry E. (Archl. Iron, etc.)
 *Consolidated Car Heating Co. (Car Heaters, etc.), 423 N Pearl
 *Cox Brass Mfg. Co. (Brass & Bronze Castings)
 *†Dederick's, P. K. Sons (Hoisting Engines, Baling Presses, etc.), Tivoli
 *†Federal Signal Co. (Railway Signals)
 †Fitzgerald, John L.
 *†Gaynor, Peter F.
 †Hartnett, Jno. J. (Iron Foundry), 16 De Witt
 *Kelly, Luke J. (Lifting Jacks, Windlasses, etc.), 307 N Pearl
 *Kemp, Jas. N. (Grinding & Polishing Machinery, etc.), 887 Broadway
 *†Littlefield Stove Co. (Stoves & Ranges)
 *†McKinney, Jas. & Son (Builders' Iron Work, etc.), 929 B'way
 *Nicholson, Aaron (Machinist), 11 Church
 †Rathbone, Sard & Co. (Stoves), N. Ferry & Rathbone
 *Skinner & Arnold Co. (Steam Engines, Propeller Wheels, etc.), 207 B'way
 *Stevenson & Leonard Machine Co.
 *†Thacher, Geo. H. & Co. (Fuel Economizers, Grate Bars, Grey Iron Castings, etc.)
 *†Townsend Furnace & Mach. Shop Co. (Light & Heavy Mach'y. Castings, Paper Mach'y., Hydraulic Presses, etc.)
 *Van Nohuis, E. C., 41 Liberty
 ALEXANDRIA BAY—*Tessey, Lewis
 ALFRED—*Rogers Machine Tool Co. (Boring
 AMBER—*Kenyon, Wm. & Turning Mills)
 *†Newman, Addison
 AMENIA—*†Fry, B. H. (Stoves)
 AMENIA UNION—*†Buckles, Charles E. (Flows, etc.)
 AMSTERDAM—*Hayflinger, John
 *†Inman Mfg. Co. (Paper Box Mach'y.)
 *Johnson, C. P. (Machinist)
 *†Klauder-Weldon Dyeing Machine Co. (Textile Mach'y)
 *MacCordy Button Machine Co. (Button
 *†Perkins Foundry Co. Mach'y, etc.)
 *Shuler, D. W. & Son (Elliptic & Coil Springs, etc.)
 *Shuler, W. S., Spring Co. (Springs, etc.)
 *Union Special Machine Co.
 ANGOLA—*Emblem Mfg. Co. (Bicycles)
 ATHENS—*†Athens Fdy. & Mach. Shop Co.
 †Travis, D. W.
 ATTICA—*Danley, F. R.
 *Glor Bros. & Willis Mfg. Co.
 *†Westinghouse Machine Co. (See East
 Pittsburg, Pa.)
 AUBURN—American Wringer Co. (See New
 York City)
 *Auburn Auto Pump Co. (Automobile
 Pumps, etc.)
 *Birdsall Engine Co. (Stationary Engines,
 etc.)
 *Bowen Mfg. Co. (Machine Screw Work
 & Oiling Devices, etc.)
 *Bowen & Quick (Threshers, etc.)
 *†Clapp, E. D. Mfg. Co. (Carriage Hdws.,
 etc.)
 *†Crane Fdry. & Machine Works (Drop &
 Trip Hammers, etc.)
 *Diamond Novelty Co. (Vending Machines)
 *Eccles, Richard Co. (Drop Forgings, Car-
 riage, etc.)
 *Enterprise Foundry Co.
 *Henry & Allen (Machine Knives, etc.)
 *†International Harvester Co. (Harvest-
 ing Mach'y., etc.), Osborne Plant
 *†McIntosh, Seymour & Co. (Steam En-
 gines, etc.)
 *Malcolm Rifle Telescope Mfg. Co.
 *Meyer & Co. (Iron Nuts, Axle Collars, etc.)
 *Wadsworth, David & Son (Scythes, etc.)
 AVON—*†Champion Drill Co. (Grain Drills,
 Cultivators, etc.)
 BALDWINVILLE—*American Gasoline Mo-
 tor Co. (Gasoline Motors, etc.)
 *Fancher Machine Co.
 *†MORRIS MACHINE WORKS
 (Steam Pumps & Steam Engines, etc.)
 (See adv. index, end of book)
 BALLSTON SPA—*†Davison-Namack Foundry
 Co. (Brass & Grey Iron Castings)
 *Union Bag & Paper Co. (Repairs)

BATAVIA—*Baker Gun & Forging Co. (Shot
 Guns, etc.)
 *†Batavia Brass & Iron Novelty Works
 *Batavia Clamp Co. (Clamps, etc.)
 *Batavia Machine Co.
 *Bidwell, C. H. Thresher Co (Inc.), (Ag-
 ricultural Implements & Engines)
 *†Johnston Harvester Co. (Agrl. Impls.)
 *Rowell Machine Co.
 *†Ward Plow Co. (Plows & Agl. Impls.)
 BELMONT—*†Clark Bros. Co. (Heavy Duty
 Gas Engines, Saw Mill Mach'y., etc.)
 BERGEN—*Miller, Orville (Brass Fdry.)
 BINGHAMTON—*American Fork & Hoe Co.
 (Forks, Hoes, etc.) (See Cleveland, O.)
 *†Bowers, L. M., & Co. (Anchors, etc.)
 *Canfield, P. B. (Gas Engines)
 *Central Mfg. Co. (Gas Irons, etc.)
 †Crandall, Stone & Co. (Carriage Hardware,
 etc.)
 *Deyo, R. H. & Co. (Gas Engines, etc.)
 *†Diamond Foundry
 *Doolittle, S. B. & Son (Flue Cleaners)
 *Gaylord & Eitapence Co. (Machinists, etc.)
 *†Georgian Mfg. Co.
 *Heath, Robt. S. (Machinist)
 *†Jones of Binghamton (Scales, etc.)
 *Marvin Electric Drill Co. (Electric Drills,
 etc.)
 *†Osgood Scale Co. (Scales, etc.)
 *†Shapley & Wells (Steam Engines, etc.)
 *Sharp, W. M., Co. (Dental Mach'y., etc.)
 *†Stow Mfg. Co. (Flexible Shafts & Elec-
 tric Motors, etc.)
 †Titchener, E. H., & Co. (Wire Gds.)
 BOLIVER—*Beatty & Jordan (Machinists)
 *†McDonnell & Brennar
 BRASHER FALLS—*†Kennehan, P. E.
 BROWNVILLE—*†Brownville Iron Works
 (Paper Mill Mach'y)
 BUFFALO—*†Acme Steel & Malleable Iron
 Works (Steel & Malleable Iron Cast-
 ings), 245 Military rd
 *Aldrich Mfg. Co. (Copper & Brass Goods),
 55 Illinois
 *Alloys Founding Co., 50 Mississippi
 *Allyne Brass Foundry Co. (Brass Fdrs.)
 *†American Brake Shoe & Fdry. Co. (See
 Mahwah, N. J.)
 *†American Car & Foundry Co. (See St.
 Louis, Mo.)
 *†American Radiator Co. (See Chicago,
 Ill.)
 †American Seating Co. (See Chicago, Ill.)
 *American Shading Machine Co., 164 Rano
 †Barcalo Mfg. Co. (Brass & Iron Bed-
 steads), 140 Kentucky
 *Blackhall Mfg. Co. (Bookbinders' Machine-
 ry), 215 Genesee
 *Brennan, Richard (Dredging Tools, etc.),
 35 River
 *†Brown Car Wheel Works (Car Wheels,
 etc.), Howard & Thomas
 *Bryan Vacuum Moulding Machine Co.
 (Molding Machines), Buffalo, N. Y.
 *Bryant, O. Sons & Co. (Special Machinery,
 etc.), Dewitt & Bradley
 Buffalo Brake Beam Co. (See New York
 City)
 †Buffalo Car Wheel Foundry Co. (Car
 Wheels, etc.), 110 Pearl
 †Buffalo Co-operative Stove Co. (Stoves),
 Amherst & Tonawanda
 †Buffalo Crucible Castings Co. (Crucible
 Steel Castings)
 *Buffalo Dry Dock Co. (Shipbuilders),
 Ganson & Buffalo Creek
 *Buffalo Emery Wheel Co. (Emery Wheels,
 etc.), 127 Ash
 *Buffalo Engine Co. (Engines, Mill Ma-
 chinery, etc.), 272 Michigan
 *†Buffalo Forge Co. (Engines. Blowers,
 etc.), Broadway & Mortimer
 *†Buffalo Foundry & Machine Co. (Grey
 Iron & Steel Castings up to 200 tons,
 Steam Hammers, Drying Mach'y., etc.)
 *Buffalo Gasoline Motor Co. (Gasoline
 Marine Engines, etc.), 1280 Niagara
 *Buffalo Gear & Pattern Works, 16 Elk
 *Buffalo Machinery Co., 26 Burwell pl
 *†Buffalo Meter Co. (Water Meters, etc.),
 290 Terrace
 *†Buffalo Pitts Co. (Engines, etc.)
 *†Buffalo Radiator Co. (Radiators & Boll-
 ers)
 *Buffalo Reduction Co. (Fertilizers, etc.),
 963 William
 *†Buffalo Scale Co. (Brewers & Maltsters,
 Testing Machines, etc.), 81 Scott
 *†Buffalo Steam Pump Co. (Steam Pumps,
 etc.), 490 Broadway. Works, N. Tona-
 wanda, N. Y.
 *Buffalo Steel & Shafting Works (Pol-
 ished Steel Shafting, etc.), ft. Baltz av
 †Buffalo Structural Steel Co., Dart &
 Letchworth

*Buffalo Tool & Machine Co. (Woodwork-
 ing Mach'y.), 176 Terrace
 *Cary Safe Co. (Safes & Locks), Chicago &
 Scott
 *Case, W. A., & Son Mfg. Co. (Mfrs.,
 Plumbers' & Steam Fitters' Castings,
 etc.), 31 Main
 *Centaur Motor Co. (Gas & Electric Mo-
 tors, etc.), 59 Franklin
 *†Clark Mfg. Co. (Iron Fdrs. & Hardware
 Specialties), 260 Chandler
 *Columbia Tool Co. (Pipe Wrenches, etc.),
 767 Seneca
 *†Contractors Plant Mfg. Co. (Contractors'
 Machy & Tools, etc.), 129 Erie
 *Crowell, David J., 198 Terrace
 *Darling, W. J. Machine Co. (Shoe Ma-
 chinery), 844 Sycamore
 *Devine, Jos. P., Co. (Drying Drums, etc.)
 *Diamond Saw & Stamping Works (Power
 Hack Saws, Emery Wheel Dressers,
 etc.)
 *†Dopp, W. H., Co. (Soap Makers' Mach'y.,
 etc.)
 *Double Truss Cornice Brake Co. (Sheet
 Metal Working Mach'y.), 33 Chandler
 *Driscoll & Fletcher (Printing Presses,
 etc.), 164 Ellicott
 *†East Buffalo Iron Works, 9 Grimes
 *Eastman Machine Co. (Cloth Cutting Ma-
 chines), 41 Eagle
 *Empire Machine & Stamping Co., 59 Ter-
 race
 *Empire Shipbuilding Co., ft. Genesee
 †Ernest's, Chas. F., Sons (Iron Fdry. &
 Builders' Iron Work), 65 Lathrop
 *†Farrar & Trefts (Steam Engines), 60
 Perry
 *Feine, August (Iron Fdry. & Bldrs. Iron
 Work), 152 Terrace
 *†Fillmore Av. Foundry & Iron Works, 153
 Fillmore av
 *Frank Machinery Co. (Woodworking Ma-
 chinery)
 *†Fries & Co. (Plumbers' Brass Goods), 89
 Main
 *†Frontier Engine Works (Steam Engines,
 etc.), ft Illinois
 *†Frontier Iron Works, 2 Auburn av
 *General Specialty Co., 800 Prospect av
 †Ginther's, J., Sons (Iron Fdrs. & Bldrs.
 Iron Work, etc.), B'way & Pratt
 †Guillott, Wm., Automatic Metal Casket
 Co., 191 Blvd av
 †Hayman, Michael & Co. (Grey Iron Cast-
 ings, etc.)
 *Heiser, Wm., & Sons Co., 114 Clinton
 *Hoefeller Brass Foundry Co.
 *Holl Mfg. Co. (Spray Pumps, etc.), 333
 Main
 *†Holmes, E. & B., Machinery Co. (Wood
 Working Mach'y), 59 Chicago
 *Hoolihan, A., 384 4th
 *†Howard Iron Works (Bolt & Nut Mach'y,
 Pulleys, Vises, etc.), 287 Chicago
 *Huxley Mfg. Co. (Valve Refacing Ma-
 chines, etc.), 753 7th
 *†Iroquois Iron Works (Steam Road Rol-
 lers, Asphalt Mach'y & Tools, etc.)
 *Jetter Mfg. Co. (Hardware Specialties,
 Tools, Files, etc.), 861 Jefferson av
 *Jewett, Jno. C. Mfg. Co. (Brass Finish-
 ers, etc.), 249 Elm
 *†Jewett & Co. (Stoves, Ranges, etc.), Mil-
 itary rd. & City line
 †Jones Iron Works (Iron Railings, etc.),
 308 Terrace
 *Josef, E. E. Mfg. Co. (Brass Finishers,
 etc.), 14 Perry
 *KEIM, JNO. R. MILLS (Inc.)
 (Automobile Parts & Fittings, etc.) (See
 adv. index, end of book)
 †Kellogg Iron Works (Arch. Iron & Steel
 Work), Mutual Life Bldg
 *Kelsey Co. (Bicycle Parts & Sundries,
 etc.), 45 Niagara
 *Keystone Mfg. Co. (Ratchet Drills,
 Wrenches, etc.), 41 Chandler
 *King Iron Works (Trout, Henry G.,
 Prop.) (Marine Engines), 226 Ohio, Buf-
 falo, N. Y.
 *King Sewing Machine Co. (Sewing Ma-
 chines)
 *Krasselt, Chas. (Gen'l Machinist, etc.),
 101 Ash
 *†Lackawanna Steel Co. (Iron, Steel &
 Brass Castings & Machine Shop)
 *†Lackawanna Steel Co.
 *†Lake Erie Engineering Works (Engines,
 Pumps & Heavy, Rough & Machined
 Semi-Steel Castings), Chicago & Perry
 †Lawler Iron Works, 67 Mississippi
 *†Lawrence Stove Mfg. Co. (Gas Stoves &
 Appliances), 1432 Seneca

*Lazier Gas Engine Co. (Gas Engines), Ellicott sq
 *Lobee Pump & Machy. Co., 140 Terrace
 ***LUMEN BEARING CO. (Brass)**, Bronze & Copper Castings, Lumen Bearings, etc.) (See adv. index, end of book)
 *Lyman Mfg. Co. (Metal Specialties, etc.)
 *McCarthy Bros. & Ford (Electrical Specialties, etc.), 45 N Division
 *McCutchcon, C. H. (Brass Fdry), 18 Ohio
 *Mahoney, Dan'l, & Sons (Steel Ranges, Signal Lamps, etc.), 17 Main
 *Manzel Bros. (Automatic Oil Pumps, etc.), 315 Babcock
 *Maute, Jacob, & Co., 23 Kane
 *Mey Chain Belting Engineering Works (Chain Belting & Elevating & Conveying Machinery, etc.), 34 Washington
 *Model Brass Foundry Co.
 *National Brake Co. (Inc.), Ellicott sq
 *New York Car Wheel Co. (Iron Fdrs., Car Wheels & Couplings, etc.), Niagara &
 *Niagara Bedstead Co. Forest av
 ***NIAGARA MACHINE & TOOL** Works (Iron Founders, Punches, Presses & Sheet Metal Working Mach'y., etc.), Jefferson, Superior & Randall
 *Noye Mfg. Co. (Steam & Gas Engines & Flour Mill Machy.), 50 Lakeview av
 *O. K. Machine Works (Gas Engines, etc.), 887 Main
 *O'Brien's Foundry (Sewer Basins, Inlets, etc.), 39 Indiana
 *Oldman Boiler Works (Boilers, Castings & Structural Work), 38 Illinois
 *Olin Gas Engine Co. (Gas & Gasoline Engines), 12 Lock
 *Oliver, A. F. Mfg. Co., 60 Cherry
 *Oliver, W. W. Mfg. Co. (Jewelers' Tools & Mach'y., etc.), 1483 Niagara
 ***OTIS ELEVATOR CO.**, Girder & Northland av. (See New York City). (See adv. index, end of book)
 *Pierce, Geo. N. Co. (Bicycles & Automobiles, etc.), 1695 Elmwood av
 *Pierce, Wm. B. Co. (Boiler Tube Cleaners), 327 Wash'n
 *Pohlmann, John W. (Stoves, etc.), Delavan av. & Erie R. R.
 *Pratt & Letchworth Co. (Steel & Malleable Iron Castings & Saddlery Hdw., etc.), 189 Tonawanda
 *Queen City Engineering Co. (Steam Pumps, Engines, etc.), 49 Illinois
 *Ray, Geo. A. Mfg. Co. (Brass & Copper Goods), 1489 Niagara
 *Reading Car Wheel Co. (Car Wheels, etc.), Fidelity bldg.
 *Robertson Mfg. Co. (Hdw. Specialties, Grading Tools, etc.), 1453 Niagara
 *Robson Smelting Co. (Brass & Babbitt Metal Founders)
 *Rogers, S. C., & Co. (Brazing & Excelsior Machy., etc.), 10 Lock
 *Ross, Josiah, Mfg. Co. (Wood Working Machinery), 1443 Niagara
 *Ruger, J. W., Mfg. Co. (Bakers' Machy., etc.), Chicago & Perry
 *Schmahl, John H., & Albee, 471 Ellicott
 *Sherwood Mfg. Co. (Brass Fdrs., Engine & Boiler Specialties, etc.), 1702 Elmwood av
 *Sizer Forge Co. (Crankshafts, Marine Forgings, etc.)
 *Smith, W. H. Mfg. Co. (Hot Air Engines), 8 Lock
 *Smiths', John E. Sons Co. (Tanners' & Butchers' Machinery, etc.), 50 B'way
 *Snow Steam Pump Works (See International Steam Pump Co., New York City)
 *Squier, Geo. L. Mfg. Co. (Plantation Machy.), 490 B'way
 *Standard Foundry Co. (Grey Iron Castings), 48 Lakeview av
 *Star Forge Co. (Blowers, Forges, Punches, Shears, etc.)
 *Sterling Engine Co. (Marine Engines, etc.), 1250 Niagara
 *Stevenson Machine Co. (Electric Routing Machines), 1418 Niagara
 *Stewart Heater Co. (Brass Fdry., Boiler Feed Heaters, Power Pumps, etc.), Norfolk av
 *Stoll, H. D. Co. (Presses, Shears, Dies, etc.)
 *Strong Steel Foundry Co. (Steel Castings)
 *Taber Pump Co. (Rotary Brewery Pumps, etc.), Swan & Ellicott
 *Taylor, W. P., Co., 218 Ellicott sq
 *Thomas, E. R. Motor Co. (Motor Bicycles, etc.)
 *Timmins & Butler, 286 Ellicott
 *U. S. Cast Iron Pipe & Foundry Co. (See New York City)

*U. S. Hame Co. (Steel Hames, etc.), Watts & Tonawanda
 U. S. Headlight Co. (Headlights, etc.), Dart & Letchworth
 *Valentine, Francis J., 178 Vermont
 *Weeks Scale Works (Scales, etc.), 361 7th
 *Wegner Machine Co. (Ice & Refrigerating Plants), Perry & Mississippi
 *Western Inspection Co. (Fire Extinguishers, etc.), 45 N. Division
 White, L. & I. J., Co. (Edge Tools, Machine Knives, etc.), 143 Perry
 *Whitman Mfg. Co. (Machinists), 178 Ohio
 *Zero Valve & Brass Mfg. Co. (Brass Founders & Finishers), 417 Chicago
CALEDONIA—*Caledonia Bean Harvester Co. (Bean Harvesters, etc.)
CAMBRIDGE—*Lovejoy Co. (Agricultural Impls. & Grey Iron Castings)
CAMDEN—*Camden Water Wheel Works
 *Hynes, Frank R.
CANANDAIGUA—*Salnave, W. A.
CANASTOTA—*Cady, C. N., Co.
 *Mahan, James
 *Marvin & Casler Co. (Elec. Specialties)
 *Patten & Stafford Co. (Rakes, Harrows, Light & Medium Grey Iron Castings, etc.)
 *Watson Wagon Co. (Dump Wagons, etc.)
CANTON—*Dishaw & Dishaw
CARTHAGE—*Carthage Machine Co.
 *Ryther & Pringle Co.
CASTILE—*Castile Chilled Plow Co. (Plows, etc.)
CATO—*Dutton, E. Q. & Co. (Iron Fdrs. & Plows, etc.)
CATSKILL—*Catskill Fdry. & Machine Works (Machinists & Fdrs., Gears, Pinions, etc.)
 *Gaylord, J. F. (Spray Pumps, etc.)
CATTARAUGUS—*Century Brass Mfg. Co. (Plumbers' Supplies, etc.)
CENTRAL BRIDGE—*Campbell, S. K. Co. (Threshers, etc.)
CHAMPLAIN—*Sheridan Iron Works
CHAPPAQUA—*Schatz Mfg. Co. (Hardware Specialties, Casters, etc.)
CHARLOTTE—*Morrison, H. D.
CHERRY CREEK—*Annis, A. W.
CHURCHVILLE—*Snyder, H. F.
CLYDE—*Wood, S. W., & Son (Engines, etc.)
COBLESKILL—*Harder Mfg. Co. (Threshers, Clover Hullers, etc.)
 *Rickard, Ira D.
COHOES—*Beattie Mfg. Works (Textile Machinery)
 *Campbell & Clute Machine Co. (Textile & Knitting Machy. & Grey Iron Castings)
 ***COHOES IRON FOUNDRY & MACHINE** Co. (Slashing Machinery & Elevators & Brass & Iron Castings). (See adv. index, end of book)
 *Cohoes Rolling Mill Co. (Textile Machy., etc.)
 *Kennedy, Thos., & Son (Textile Machy.)
 *McCreary, Edw.
 *Rensselaer Mfg. Co. (See Troy, N. Y.)
 Union Special Machine Co. (See Chicago)
COLD SPRING—*Cornell, J. B. & J. M., Co. (See New York City)
COPAQUE IRON WORKS—*Columbia Plow Works (Plows, etc.)
CORNING—*Allen, E. R., Foundry Co. (Machinery & Bldrs.' Castings, etc.)
 *Canfield Brake Co.
 *Corning Mfg. Co. (Furnaces)
 *Hood Furnace & Supply Co.
 *Symington, T. H. Co. (R. R. Specialties, etc.)
CORTLAND—*Cooper Bros.
 *Cortland Foundry & Machine Co.
COXSACKIE—*American Valve Co. (Valve Mfrs., etc.)
CROGHAN—*Farney, J. C., & Son
CROTON FALLS—*Higley Machine Co. (Metal Cutting Off Machines, etc.)
 *Juengst, Geo. & Sons
CUBA—*Graves, A. H. (Iron Fdry.)
DANSVILLE—*Engert, Geo. J.
 *Sweet, Geo. Mfg. Co. (Mowers & Reapers, etc.)
DEPEW—*American Car & Foundry Co. (See St. Louis, Mo.)
 *Gould Coupler Co. (Car Couplers & Malleable Iron Castings). (See New York City)
 *Mangus Metal Co. (Babbitt Anti-Friction Metals, etc.)
 *Railway Steel Spring Co. (See New York City)
DESPATCH—*Ontario Drill Co. (Grain Drills, etc.)
DOLGEVILLE—*Menge, Wm.

DUNKIRK—*American Locomotive Co. (Locomotives). (See New York City)
 *Flesher, Chas. H. (Machinist)
 *Mulholland Co. (Carriage Springs, etc.)
 *Romer Axe Co. (Axes & Edge Tools)
 *United States Radiator Co. (Radiators, etc.)
EAST AURORA—*Peek, S. H. (Plows, etc.)
EAST ROCHESTER—*Ontario Drill Co. (Grain Drills, etc.)
EBENEZER—*Gillfillian, F. C. (Gas Regulators)
EDMESTON—*Green, Nelson L.
ELBA—*Barr, Newton L.
ELBRIDGE—*Elbridge Electrical Mfg. Co. (Dynamos & Motors, etc.)
ELLENVILLE—*Hoyt, Canner & Co. (Castings, etc.)
ELMIRA—*American La France Fire Engine Co.
 *Climax Specialty Co. (Plumbing Specialties)
 *Cronk & Carrier Mfg. Co. (Hardware Specialties, Door Hangers, etc.)
 *Eclipse Machine Co. (Coaster Brakes, Screw Machine Work, etc.)
 *Elmira Boiler & Iron Works
 *Elmira Heater & Foundry Co. (Grey Iron & Semi-Steel Castings)
 *Field Force Pump Co. (Pumps, etc.)
 *Hillard Clutch & Machy. Co.
 *Kennedy Valve Mfg. Co. (Valves, Hydrants, etc.)
 Moffitt, Jas. W., (Machinist)
 *Swift Lubricator Co. (Lubricators, Valves, etc.)
ENDICOTT—*Bundy Mfg. Co. (Adding Machines)
FAYETTEVILLE—*Crouch, Wm. N. (Grey Iron Castings, Hdw. Specialties, etc.)
 *G. & C. Mfg. Co. (Hdw. Specialties)
FISHKILL ON THE HUDSON—*Dutchess Tool Co.
 *Fishkill Landing Machine Co. (Steam Engines, etc.)
 *Potter-Morgan Co. (Spring Brakes, etc.)
FONDA—*Mohawk Machine Shop
FORT PLAIN—*Empire State Metal Wheel Works (Metal Wheels, etc.)
 *Walrath, Alphonso, Co. (Broom Machy., etc.)
 *Yerdon, Wm. (Hose Bands, etc.)
FRANKFORT—*Acme Road Machinery Co. (Road Machinery, etc.)
 *N. Y. C. & H. R. Ry. Shops
 *Pratt Chuck Co. (Chucks, etc.)
 *Union Fork & Hoe Co. (See Columbus, O.)
 *Utica Steam Gauge Co. (Steam Gauges, etc.)
FRANKLINVILLE—*Ontario Knife Co. (Tools, etc.)
 *Stone, F. L.
FREDONIA—*Hammond, J. W.
FREEPORT—*Columbian Brass Foundry
FRIENDSHIP—*Costigan Mfg. Co. (Stoves, etc.)
 *Drake Hdw. Co. (Stoves & Dairy Goods)
 *Rumsey, C. B. Engine & Machine Co.
FULTON—*Ditts Machine Co. (Paper Mill Machy., Castings, etc.)
 *Emeny, G. J. Co. (Ensilage Cutters, Cider Mill Machinery & Hot Air Furnaces)
 *Foster Bros. & Chatillon Co. (Edge Tools, etc.)
 *Hunter Arms Co. (Fire Arms, etc.)
 *Hunter Fan & Motor Co. (Water Motors, Fans, etc.)
 *Miller & Armstrong (Engines, etc.)
 *Parker, J. J. (Gasoline Engines, etc.)
 *Pearman, James
 *Taylor Bros. & Co. (Machine Knives, etc.)
GARDENVILLE—*Schoepflin, Chas.
GENESE—*Barclay, Geo. P. (Machinist)
GENEVA—*Catchpole Boiler, Fdry. & Mach. Co.
 *Fay & Bowen Engine Co. (Gasoline Engines, etc.)
 *Herendeen Mfg. Co. (Heating Apparatus)
 *New York Central Iron Works Co. (Boilers, Heaters & Castings)
 *Phillips & Clark Stove Co. (Stove Mfrs.)
 *Summit Foundry Co. (Stoves)
GLENS FALLS—*Dix Foundry & Machine
 *Glens Falls Portland Cement Co.
GLOVERSVILLE—*Anthony, H. J. (Glove Machy. & Dies)
 *Curtin-Hebert Mfg. Co. (Glove Machinery, Emery Wheel Dresses, etc.)
 *Glove City Cutting Die & Machine Co. (Glove & Leather Machy.)
 *Haag, Jacob Cutting Die Co. (Glove Cutting Dies, etc.)
 *Haag, Wm. (Glove Dies, etc.)
 *Steele Mfg. Co.

GOSHEN—*†Newbury, J. H. (Cast Iron Soil Pipe, etc.)
 GOWANDA—*†Gowanda Agricultural Works (Agl. Impls., Grey Iron Castings, etc.)
 *Smallwood, W. R. Mfg. Co. (Corrugated Steel Fasteners, etc.)
 †Star Iron Works
 GRASSY POINT—*Wiles, A. M. & W. H. Co.
 GREENE—*†Lyon Iron Works (Fdrs. & Machinists, Feed Cutters, etc.)
 GREEN ISLAND—*Clifford, Jas. J. & Co. (Machinists)
 *Grand-Ferris Co. (Agl. Impls., etc.)
 *Sweet & Doyle Valve Co. (Valves, etc.)
 GREENPORT—*Greenport Basin & Construction Co. (Ship & Engine Builders)
 *Hedges, Samuel P. (Machinist)
 *Tuthill & Thorn
 GREENWICH—*†Eddy, W., Plow Co. (Plow Mfrs. & Castings)
 GREENWOOD—*†Woodward, G. M.
 GROTON—*Groton Machine Tool Co.
 *†Monarch Road Roller Co. (Steam Road Rollers, etc.)
 GUILDERLAND—*†Guilderland Foundry Co.
 GUILFORD—*†Merchant, A. P.
 HAMILTON—*†Graham, Dwight
 HAMMOND—*†Evans Mfg. Co. (Agl. Impls.)
 HAMMONDSPOUT—*Curtiss, G. H. Mfg. Co. (Motor Cycles)
 HANCOCK—†Stimson, T. F. (Iron Fdry.)
 HAVERSTRAW—*†Waldron, Chas. (Brick Machinery)
 HERKIMER—*Clark, Jas. A. (Machinist)
 *Klock, A. B. (Machinist)
 *Quackenbush, H. M. (Air Pistols, etc.)
 HILLBURN—*Metal Corporation
 *†Ramapo Iron Works (Cars, Castings & General Truck Equipments)
 HOMER—*Baker Gear Co. (Gears, etc.)
 *†Hoenix Hdw. Mfg. Co. (Hardware, etc.)
 HONEOYE FALLS—*Honeoye Falls Mfg. Co. (Bean Picking Machy., etc.)
 HOOSICK FALLS—*†Noble & Wood Machine Co. (Paper Mill Machy.)
 *†Wood, W. A. Mowing & Reaping Machine Co.
 HORNEILL—*Bartz, Wygant & Brown (Inc.) (Chucking Machines, etc.)
 *Clemons Machine Co. (Sand Papering Machy.)
 *†Davis Fdry. (Inc.) (Chines, etc.)
 HORSEHEADS—*†Weller Hdw. & Foundry Co. (Grey Iron Castings & Hdw. Specialties)
 HUDSON—*†Gifford-Wood Co. (Friction Clutches, Ice Handling Machinery, Castings, etc.)
 *†Railway Steel Spring Co. (Car Wheels, Steel Springs, etc.)
 ILION—*Remington Arms Co. (See N Y City)
 *†Wyckoff, Seamans & Benedict (Type-writers). (See New York)
 IRVINGTON—*†Lord & Burnham Co. (Horticultural Builders & Greenhouse Heating Apparatus). (See New York City)
 ITHACA—*†Godfrey, E. O. (Machine Work)
 *†Ithaca Gun Co. (Guns & Typewriters)
 *†Lang, J. B. Engine Works
 *†Morse Chain Co. (Power Transmission Appliances, etc.)
 *†Williams Bros. (Well Drilling Machinery & Agr. Implt. Castings)
 JAMESTOWN—*Anderson Bros. (Machinists)
 *Art Metal Construction Co.
 *Blackstone Mfg. Co. (Corn Planters, Washing Machines, etc.)
 *Crescent Tool Co. (Special Machinery, Tools, etc.)
 *†Eagle Fdry. & Mach. Co. (Fdrs. & Machinists)
 *Gurney Ball Bearing Co. (Machinists)
 *†Jorth, Wm. & Co. (Wrenches, etc.)
 *†Jamestown Iron Works Co.
 *†Jamestown Metal Furniture Co. (Brass, Aluminum & Bronze Castings)
 Maddox Machine Co. (Woodworking Machinery)
 *†Maher, Patrick (Machinist & Fdry.)
 *Moore Bros. (Files, etc.)
 *Phillips Barrel & Machine Co. (Barrel Machinery)
 *Rushworth & Son (Machinists)
 *United States Standard Voting Machine Co. (Voting Machines)
 Weber Mfg. Co. (Cabinet Hdw. & Specialties)
 KINGSTON—*Browne, W. G. Mfg. Co. (Hardware Specialties, etc.)
 *†Hayes Machine Co. (Inc.) (Box Nailing & Box Printing Machinery, etc.)
 *King, A. R. Mfg. Co. (Machy., Tools, etc.)
 *†Lawton, Wm. F. (Fdry. & Machinist)
 *†Millard, Jas. & Son (Brick Machy. & Castings)

LANCASTER—*†American Malleables Co.
 *Lancaster Machine & Knife Works (Blt Braces, Machine Knives, etc.)
 †Maute, Frank (Iron Fdry.)
 LEONARDSVILLE—*†Babcock Mfg. Co. (Agricultural Implements)
 LE ROY—*†Le Roy Plow Co. (Plows, etc.)
 LESTERSHIRE—*†Heath, W. A. Machine Co. (Woodworking Machy.)
 LIMA—*Bailey Engine Co. (Bottle Washing Machines, etc.)
 *†Papec Machine Co. (Feed Cutters, Cream Separators, etc.)
 LITTLE FALLS—*†Burrell, D. H. & Co. (Dairy Mach'y)
 *Cheney, Henry Hammer Co. (Hammers, Tools, etc.)
 *†Reddy's, M. Sons (Castings, etc.)
 *Snyder, Homer P. Mfg. Co. (Knit. Mach'y)
 *Stafford & Holt (Knitting Mach'y)
 LOCKPORT—*†American District Steam Co. (Steam Traps, Regulators, Valves, etc.)
 *†Boston & Lockport Block Co. (See Boston, Mass.)
 †Drew Steel Foundry
 †Dussault Foundry Works
 †Electric Smelting & Aluminum Co.
 †Gardner Foundry Co.
 †Harris Foundry Co.
 *Holly-Carios Co.
 *Kob, Edw. (Machine Work)
 *†McKim Foundry & Machine Co.
 *†Merritt Mfg. Co. (Wood Working Machy.)
 *Nolan, Wm. (Machinist)
 *†Oliver Bros. Co. (Iron & Brass Bedsteads, etc.)
 *†Richmond Mfg. Co. (Flour Mill Mach'y)
 *Trevor Mfg. Co. (Shingle, Heading, Staves, Handle & Wood Pulp Machy.)
 *Ward & McLean (Looping Mach'y)
 *Western Block Co. (Tackle Blocks, etc.)
 LOWVILLE—*†Fulton Machine & Vise Co.
 LYNDONVILLE—*†Gray, John C., & Co.
 LYONS—*†Berns & Schlee
 *Nagley Mfg. Co. (Tobacco Planters' Machy., etc.)
 MACEDON—*†American Seeding Machine Co. (Agl. Impls.). (See Springfield, O.)
 MALONE—*†Hinds, Thos. (Stone Polishing & Stone Sawing Mach'y & Castings)
 MAMARONECK—*†National Machine Co. (Sewing Machines)
 MANLIUS—*†Cheney, S. & Son (Iron Fdrs.)
 *†Scoville, E. U. (Stable Fixtures, etc.)
 MARATHON—*†Climax Road Machine Co. (Road Mach'y, etc.)
 *†Livingston, Jas. (Machinist & Fdry.)
 MASSENA—*†Raquette Fdy. & Supply Co.
 MASSENA SPRINGS—*Balch, F. (Machinist)
 MATTEAWAN—*†Green Fuel Economizer Co. (Fuel Economizers, Blowers, etc.)
 MECHANICSVILLE—†Eckerson Bedding Co. (Beds)
 †Greene, W. F., Co. (Stove Trimmings, etc.)
 MEDINA—*†Bignall Co. (Sinks, Pumps, Plumbers' Supplies, etc.)
 *†CENTRAL FOUNDRY CO. (See adv. index, end of book)
 †Medina Foundry Co. (Soll Pipe & Fittings)
 *Medina Stamping & Machine Co.
 *†Swett, A. L. Iron Works (Grey Iron Castings, Plumbers' Castings, Door Hangers, etc.)
 MELLENVILLE—†Smith, Webster
 MERIDIAN—†Everts & Co. (Plows, etc.)
 MIDDLEPORT—*Lewis, E. J. (Canning Machinery)
 *Nagara Sprayer Co. (Spraying Machines)
 †Sherwood, A. G. (Iron Fdry.)
 MIDDLETOWN—*†Benjamin, I. S.
 *Clemson Bros. (Saws, etc.)
 *†Coleman, Galen (Castings All Kinds, General Machy., etc.)
 †Martin, Jas. G. (Castings of Every Description)
 *Morgans & Wilcox Mfg. Co. (Printing Machinery)
 *National Saw Co. (Saws, etc.)
 MONROE—*†Newbury Mfg. Co. (Castings & Steam Fittings, etc.)
 MONTOUR FALLS—*†Shepard Electric Crane & Hoist Co. (Pneumatic Tools, etc.)
 MORAVIA—†Cady, Geo. S. & Co. (Fdrs.)
 *Jewett, H. M. (Lawn Mowers)
 MOUNT MORRIS—*†Empire Machine Works (Wood Working Machy.)
 *†Genesee Valley Mfg. Co. (Grain Drills, Harrows, Corn Shellers, etc.)
 MOUNT UPTON—*Willey, Leroy
 MOUNT VERNON—*Ams, Max Machine Co. (Can Makers' Machinery, etc.)
 *†Henry-Bonnard Bronze Co.
 †Mauser Mfg. Co. (Also Silver)

MUNNSVILLE—*†Munnsville Plow Co. (Plows, etc.)
 NAPANOCH—Pillsbury, M. M. (Edge Tools, etc.)
 NEWARK—†Hamer, T. L. (Castings & Plows)
 NEWARK VALLEY—*†Kemp, J. S. Mfg. Co. (See International Harvester Co., Chicago, Ill.)
 NEWBURGH—*†ABENDROTH & ROOT Mfg. Co. (Grey Iron & Brass Castings, Water Tube Rollers, etc.) (See adv. index, end of book)
 *Chadbourne & Coldwell Mfg. Co. (Lawn Mowers)
 *Coldwell Lawn Mower Co. (Lawn Mowers, etc.)
 *†Coldwell-Wilcox Co. (Sugar Machy., Rock & Ore Crushers, Sluice Gates & Iron & Brass Castings, etc.)
 *Gregg Co. (Sugar Cane Cars, Unloaders, etc.)
 *Hyer-Sheehan Elec. Motor Co. (Elec. Motors)
 †Kimball's, S. G. Son (Brass Fdr.)
 *Lackawanna Mfg. Co. (Motors, etc.)
 *†Marvel, T. S. Shipbuilding Co. (Ship & Engine Builders, Iron & Brass Castings, Marine Railways, etc.)
 *†Newburgh Ice Machine & Engine Co. (Corliss Engines, Ice & Refrigerating Machines & Iron & Brass Castings)
 †Ross Radiator Co. (Radiators, etc.)
 *Staples Valve Co. (Valves, etc.)
 *†Turl's, John Sons (Sugar Machy., etc.)
 NEW HAMBURG—*†Stuart, R. J. & T. H. (Compression Wedge Couplings, Castings, etc.)
 NEW LISBON—*George, M. & R. L. (Steam Engines, etc.)

NEW YORK CITY. Borough of Brooklyn.

BROOKLYN—*†Acme Foundry Co. 280 N Henry
 *Acton, Jno. (Machinist), 118 John
 *Adriance Machine Works, 254 Van Brunt
 *Ambrose Machine Co. (Machinists, Metallic Packings, etc.), Eagle cor Provost
 *American Air Compressor Works, Van Brunt & Summit
 *†American Machine & Foundry Co. (Iron Fdrs. & Machinists), 346 Carroll
 *American Roller Bearing Fifth Wheel Co., 745 3d av
 *American Steel Spring Co. (Car Springs, etc.), 2 Rector
 *American Stopper Co. (Bottlers Mach'y), 19 Verona
 *Art Machine Co., 217 Fulton
 *Atlantic Basin Iron Works, 18 Summit
 †Atlas Brass Foundry, 112 Greenpoint av
 *†Auer, Jno., Jr., 201 Middleton
 *Ball, Geo. M., & Son (Gears, Machy., etc.), 56 Greenpoint av
 *Ball & Jewell (Machinists), 26 Franklin
 *Bauer, Noble & Bauer, 91 Wallabout
 *Beach-Russ Co. (Vacuum Pumps & Pressure Blowers, etc.), 59 Greene
 *Bergstrom & Bass, 2d av
 †Binney & Godfrey (Iron Fdrs., etc.), Kent av
 †Binns, David W. (General Iron Fdry.), 56 Sandford
 *Blattner, Fred'k (Machinist & Millwright), 223 Maujer
 *†Bliss, E. W. Co. (Sheet Metal & Plate Machy., Gears, etc.), 117 Adams
 *†Brass Goods Mfg. Co. (Brass Goods, etc.), 280 Nevins
 †Brooklyn Brass Wks. & Fdry., 263 Scholes
 †Brooklyn Foundry Co. (Inc.) (Iron & Bronze Founders), 372 G'point av
 *†Brooklyn Navy Yard, Sands st
 *†Brooklyn Vault Light Co. (Vault Lights, etc.), Norman ave. & N Henry
 *Brown, Geo. J. (Forgings & Machine Works), 75 West
 *†Brown & Patterson, 33 Marcy av
 *Burr, John T. & Son (Machine Tools, etc.), 429 Kent av
 †Burr & Honston Co. (Iron Fdrs., Electrical Work, Light Castings a Specialty), 84 Calyer
 *Cameron Engineering Co. (Overhead Tramways, etc.), 156 Berriman
 *Campbell, Jas. F. & Son (Files, etc.), 13 Frost
 *CAMERON MACHINE CO. (Cloth Cutting Machinery, etc.), 61 Poplar. (See adv. index, end of book)
 *Child, Wm. C. W. (Iron Fdry., Structural), 353 Kingsland av

*Christoffel's, A. Sons (Tube Cleaners, etc.), 277 Eldert
 *Columbia Engineering Works (Machinists), Imlay & Pioneer
 *†Columbia Machine Works & Malleable Iron Co. (Electric Railway Appliances & Malleable Iron & Brass Fdry.), 269 Chestnut
 *†Continental Iron Works (Corrugated Furnaces & Gas Works Apparatus, etc.), Calyer & West
 *Coyne & Delaney (Brass Fdms., Plumbers' Specialties, etc.), 303 Rodney
 *†Creamer, W. G., & Co., Smith & Creamer
 *Crowell, Gilmer (Mfrs. Tools & Mach'y.), 296 Taaffe pl
 *Currie, J. B., & Son, 72 Adams
 †Daly, John E., & Co., 53 Dobin
 *Davidson, M. T., Co. (Steam Pumps, etc.), 43 Keap
 *Deverall Perfection Mfg. Co. (Brass Specialties, etc.), 10 Johnson pl
 *Dolg, Wm. S. (Est. of), (Box Nailing Mach'y), 54 Franklin
 †Duffus, Wm. M., 719 Kent av
 *Dugro, Philip & Son, 132 Ten Eyck
 *Durst, Wm. (Brass Fdr. & Finisher), 4 Water
 †Eagle Iron Works (Inc.), 850 De Kalb
 *Eggers, Wm. J., 339 Classon av
 *Electro Mfg. Co. (R. R. Supplies), 127
 *Eisesser, Michl., ft Court N 10th
 *Emmerich, Fred'k, 365 Flushing av
 *Fanning, Josephine P., 678 Jefferson av
 *†Fischer, Henry C. (Iron Fdry.), 234 Greene
 *†Fisher, A. B., Co., 635 Kent av
 *Fogarty & Co. (Machinists), 38 Harrison
 *Foster Pump Works, 36 Bridge
 *Fox, Arthur W., 83 Schermerhorn
 *Franklin Machine & Steam Boiler Works (Inc.) (Machinists, etc.), 13 Franklin
 †Frieberg Iron Foundry, Wyeth av
 *†Fulton Foundry & Machine Co. (Machinists & Iron Fdms.), 25 Furman
 *Gates, Peace & Co. (Gas Fixtures), 665 Manhattan av
 *General Insulate & Machine Co. (Dies, Tools, etc.), 1008 Atlantic av
 *Gill, P. H. & Sons Forge & Machine Works (Forgings, Grain Elevators, Power Transmitting Machinery, etc.), 2 Lorraine
 *†Graf, Jos. (Brass Finisher), 886 Park av
 *Greene Mfg. Co. (Kindling Wood Mach'y), 300 Oakland
 *†Guild & Garrison (Pumping & Sugar Mach'y., etc.), 255 Kent av
 *Hall, Thomas, 457 39th
 *Hall & Hurlburt, ft 24th
 †Halloran, Thos. (Iron Fdry.), 884 Met av
 *Hamilton, Robert, 85 Adams
 *Hartley, James (Engineer & Machinist), 75 Delevan
 *Hay-Budden Mfg. Co. (Forgings, Anvils), 254 N Henry
 *†Hecla Iron Works (Brass, Bronze & Iron Founders, Iron Bronze & Brass Work & Builders' Iron, Brass & Bronze Work), 118 N 11th
 *Hibbard, W. H. Mfg. Co. (Power Presses, Shears, etc.), 79 Washington
 *Hicks Speed Indicator Co. (Speed Indicators, etc.), 1263 Atlantic av
 *Hofmann, Adolph W. (Die Sinker, etc.), 83 Washn
 †Holdsworth Foundry Co. (Brass & Iron Fdms.), 454 Rodney
 *Holland, Frank, 679 Lorimer
 *Hoole Machine & Engraving Works (Book Binders' Machinery), 29 Prospect
 *Houchin-Alken Co. (Candle & Soapmakers' Machinery, etc.), 35 53d
 *Hubbard's, Norman, Sons (Vacuum Pump & Veneer Sawing Machines, 26 Water
 *Huethwohl, Louis, Jr., 513 Flushing av
 *Jefferson Brass Foundry (A. Willerth, Prop.), 209 King
 *Johnson, August, 18 Dunham pl
 *Jones, Whitfield E. (Special Mach'y.), 14 Water
 †Kasper & Koetzle, 565 Bushwick av
 *Kelting, Albert J. (Machinist & Engineer), 459 Carroll
 *Kent Machine Works, 39 Gold
 †Kings County Iron Foundry Co. (Sash Weights, etc.), N 13th & Berry
 †Knight, John J., Sons (Iron Fdry.), Albany & E. N. Yards
 *†Krajewski-Pesant Co. (Mach'y., etc.), 54 Beard
 *†Lefferts, Chas. A. & Co., 109 2d av

*Leffler, Chas. & Co. (Inc.), (Presses, Dies & Tools for Sheet Metal & Paper, etc.), 49 Clymer
 *†Lidgerwood Mfg. Co., ft. of Dikeman (See New York)
 *Lieb Brass Foundry, 84 Cariton av
 *†Logan Iron Works (Mfrs. & Contractors, Oil & Gas Works Complete), 42 Commercial
 *Lythgoe, Peter, 5610 2d av
 *McAdams, Jno. & Sons (Paging & Ruling Machines), 978 Kent av
 *McGibbon Engineering & Iron Works, 12 Columbia
 *McMurray, Robt. T. & Bro., 365 Harman
 *Marresford, Wm. F. (Wallpaper & Bookbinders' Mach'y.), 56 Pearl
 †May, John (Iron Fdry.), 260 Monitor
 *†Mergenthaler Linotype Co. (Linotype Machines), 24 Ryerson
 *MERRILL BROS. (Mfrs. of Turnbuckles, Drop Forgings, Vises, Presses, Drop Hammers, etc.), 465 Kent. (See Maspeth, Boro. of Queens, New York.) (See adv. index, end of book)
 †Metcalf, Saml. (Brass & Iron Fdry.), 25 Seabring
 †Metropolitan Iron Foundry, 884 Metropolitan av
 *Miliken, Chas. H., 79 Washington
 *Mills, Wm. J. (Brass & Bronze Fdms. & Machinists), 639 Kent av
 *Morse Dry Dock & Repair Co. (Marine Works), ft. 56th
 *Moussette, O. J. (Dies, Presses & Special Machinery), 481 Driggs av
 *†Morton Iron Works, 114 Greene
 *Mulstein, Jno., Co. (Tools), 211 3d av
 *Murcott & Campbell (Files), 296 Union av
 *Murray, John A. (Brass Finisher), 112 Front
 *Nassau Machine Works, 23 Cranberry
 *†National Foundry Co. (Cast Iron Soil Pipe & Mach'y. Castings), 12 Sanford
 *NATIONAL GAUGE CO. (Gauges, Valves, Cocks, etc.), 168 8th. (See adv. index, end of book)
 *National Meter Co., 42d & 1st av. (See New York)
 *Nebel, Martin A. (Cement, Paint Grinding Mach'y., etc.), 74 Grand av
 *Nichols Gas Fixture Mfg. Co. (Gas Fixtures), 1100 Myrtle av
 *Oakley & Keating (Laundry Mach'y), 673 Manhattan av
 *Oldham, Joshua & Sons (Saws), 112 26th
 *Olsen, Andrew, 39 Union
 *Parkes Machine Co. (Sewing Machines, etc.), 290 Taaffe pl
 *Paul, Chas. B. (Files, etc.), 467 Keap
 *Piel, Bernard F. (Millwright, Engineer & Machinist), 56 Humboldt
 *Pioneer Iron Works (Asphalt, Paper Taring Sugar Machinery, etc.), 149 Pioneer
 *†Pirkl, John Iron Works (Inc.), 240 N 10th
 *Pollard, Jos. G. (Tools), 141 Raymond
 *Pringle, Thos. G. (Machinist), Clay
 *Reeve, Henry E., Carroll nr 3d av
 *Reid, R. W. (Plumbers' Supplies, etc.), 272 Kent av
 *†Riley, John J. (Iron & Brass Fdry.), Van Brunt & Summit
 *Riley Machine Works, 192 24th
 *Robertson, John & Co. (Lead Pipe Mach'y.), 133 Water
 *Roman Bronze Works (Bronze Castings only), 275 Greene
 *†Ronalds & Johnson Co. (Cast Iron Soil Pipe & Plumbers' Castings), 51 Boerum pl
 *Roovers Bros. (Embossing Presses, etc.), Schermerhorn
 *†Ross, Chas. & Son Co. (Paint Grinding & Mixing Mach'y), 146 Classon av
 *Rotary File & Machine Co. (Saw Sharpening Machines, Pinking Machines, etc), 589 Kent av
 *†Roy Engineering & Iron Works, 17 Bay
 *Shapiro & Aronson (Gas Fixtures), 24 Morton
 †Simpson Foundry Co. (Builders' Castings of All Kinds), 26 Rodney
 *Simpson, Jas. S. (Grinding Mills, etc.), 26 Rodney
 †Smith & Loughlin (Iron Fdms.), Driggs av & N 5th
 *Staats, Geo. & Co., 252 Lorimer
 *Standard Water Meter Co. (Water Meters, etc.), Roberts & Main
 *Sweeney, W. H. Mfg. Co. (Brassware, etc.), 66 Water
 *†Taylor & Co. (Machine Molded Castings, etc.), Morgan & Norman avs
 *Terry & Williamson, 89 Sedgwick
 *Thompson-Bonney Co. (Electrical Specialties), 45 York

*Thomson Meter Co. (Water Meters), 79 Wash'n
 *Townsend & Moore Engineering Co., Pier 2, Erie Basin
 †Tuttle-Bailey Mfg. Co., 79 N 10th. (See New York)
 *U. S. McAdamite Metal Co., 18 Rapeye
 *Unitype Co. (Typesetting Machines), 150 Sands
 †Universal Iron Foundry (Iron Fdry.), 283 Scholes
 *Vierengel, Matthew (Machinist), 32 S. 6th
 *Vosburgh, W. C. Mfg. Co. (Gas Fixtures, etc.), 93 Underhill av
 *Ward, Geo. H., & Co. (Steam, Hydraulic, Electric & Refrigerating Plants, for Marine Purposes, Engine Repairing, etc.), 78 Delevan
 *Ward & Upright Eng. Co. (Machinists), 41 York
 *Weisbecker, Francis A. & Sons (Machinists), 22 Frost
 *Weiss, Louis T. (Machinist), 286 Taaffe
 *Wesel, F. Mfg. Co. (Printers' Mach'y), 70 Cranberry
 *Whale Creek Iron Works, Calyer nr Whale Creek Canal
 *White, J. H. Mfg. Co. (Gas & Electric Light Fixture Parts & Trimmings), 111 N 3d
 *Wischerth Mfg. Co., 302 McDougal
 *Wittmann Bros. (Bottlers' Mach'y. & Supplies, etc.), 41 Ferris

Boroughs of Manhattan & Bronx.

NEW YORK—*Abele, Christian, 537 W 50th
 *†Abendroth Bros. (Stoves, Furnaces, Cast Iron Pipe, etc.), 109 Beekman. Works, Port Chester, N. Y.
 *Acme Brass Works (Brass Finishers, etc.), 147 Baxter
 †Ahr, Henry, Iron Works, 444 E. 148th
 *Allan, Andrew & Son (Brass Fdms.), 486 Greenwich
 *Allman Gas Engine & Machine Co. (Gas Engines, Ice Breakers, etc.), 29 Sullivan
 *†American Locomotive Co. (Locomotives), 30 Church
 *American Meter Co. (Gas Meters & Appliances), 11th av & 47th
 *American Process Co. (Drying Machinery), 68 William
 *†American Sawmill Machinery Co. (Saw Mill Machinery), 50 Church
 *†American Smelting & Refining Co., 165 Broadway
 *American Wringer Co., 99 Chambers; Works: Auburn, N. Y.
 *American Writing Machine Co. (Typewriters), 343 B'way
 *Andrews, Phalon & Co. (Marine Engines & Repairs, etc.), 241 West
 *Arthur Co. (General Machine Works), 188 Front
 *Aue, Ferdinand (Millwright & Machinist), 420 E 62d
 *Automatic Switch Co. (Electric Devices), 131 Liberty
 *Automatic Vending Co. (Automatic Machines), 240 W 23d
 *†Babcock & Wilcox Co. (Water Tube Boilers & Castings), 85 Liberty; Works: Bayonne, N. J.; Barberton, O., & Mansfield, O.
 *Baker, Wm. C., Htg. & S. Co. (Car Heating, etc.), 143 Liberty
 *Bassemir, John & Son (Brass Finishers), 125 Worth
 *Bates Machine Co. (Numbering Machines, etc.), 90 West
 *Bayer, Gardner & Himes Co. (Cabinet Hardware, etc.), 157 W 29th
 *Bell Electric Motor Co. (Electric Motors), 133 Liberty
 *Bender, Ph. J. & Sons (Machinists, Presses, Dies, Tools & Special Machinery), 87 Frankfort
 *Benton Mfg. Co. (Registering Machines, etc.), 9 Bethune
 *Berggren & Pearson Machine Co. (Model & Experimental Work, Fine Machinery & Tools), 221 Canal
 *Blair, Wm. G. (Machinist), 24 West
 *†Bogue, Chas. J., Electric Co. (Dynamometers & Motors), 515 W 29th
 *†Boynton Furnace Co. (Hot Air Furnaces, etc.), 207 Water; Works: Jersey City, N. J.
 †Brinkerhoff's, J. P. Sons (Brass Fdms.), 183 G'wich
 *†BROWN, A. & F. CO. (Power & Rope Transmitting Machinery, Hangers, Pulleys, etc.), 25 Dey. Works: Elizabethport, N. J. (See adv. index, end of book)

*Bulasky, Louis (Hat Mach'y., etc.), 42 E Houston
 *Burns, Jabez & Sons (Coffee Roasting Machinery, etc.), 600 W 43d
 *†§Cameron, A. S., Steam Pump Works (Steam Pumps), 433 E 23d
 *Campbell Printing Press & Mfg. Co. (Printing Presses, etc.), 1 Madison av
 §Cassidy & Son Mfg. Co. (Gas Fixtures), 133 W. 23d
 *Cavagnaro, John J. (Macaroni, Wire Weaving & Watch Case Machinery, etc.), 255 Centre
 *†CENTRAL FOUNDRY CO. (Cast Iron Pipe & Plumbers' Cast Iron Goods, etc.), 37 Wall. (See adv. index, end of book)
 †Central Iron Works (Iron Fdrs.), 420 E 48th
 *†Central Radiator Co. (Radiators), 116 Nassau. Works, Lansdale, Pa.
 *Christie Iron Works (Machinist), 11th av
 §City Fire Dept., 12th av & 56th & 23d
 §Claudat, Frank & Son (Brass & Bronze Fdrs.), 424 E. 23d
 *Columbia Typewriter Mfg. Co. (Typewriters), 56 Reade; Works: 37 W 116th
 *Condon, Thos. F. & Co. (Soap Machinery), 50 Church
 *Connelly Iron Sponge & Governor Co., 50 Church
 *Connecticut Dynamo & Motor Co., 516 W. 25th
 *Cook, Thos. W. G. (Metal Goods Presses), 6 Reade
 *†§Cornell, J. B. & J. M. Co. (Brass & Iron Fdrs., Machinists, Sugar Machy, etc.), 26th & 11th av
 *Corcoran, A. J. (Inc.), 11 John
 §Cory, Chas. & Son (Brass Finishers), 286 Spring
 *†Cottrell, C. B. & Sons Co., 41 Park row. (See Westerly, R. I.)
 *Craft, Jesse (Centrifugal Pumps, etc.), 260 Front
 *†Crane, Wm. M. Co. (Stoves, Grey Iron Castings, etc.), 16 W 32d st. Works, Peekskill, N. Y.
 §Cunningham, Wm. J., 671 Water
 *Curtis, Chas. L. (Machinist), 199 Grand
 *Dale Co. (Electric Fixtures, etc.), 9th av & 13th
 *†Deeley, Robt. & Co (Sugar Machy, etc.), 541 W. 32d
 *Defiance Button Machine Co., 53 E 8th
 *De La Vergne Machine Co. (Ice Machines & Gas & Oil Engines, etc.), Locust av
 *Dey, V. G., 517 W 46th
 *Dilg Mfg. & Trading Co. (Ice Breakers, Cutlery, Renovating & Polishing Machines, etc.), 401 E. 163d
 †Dimond, Thos., 128 W 33d
 *Dowdall, Chas. E. (Elevators), 152 W B'way
 *Drescher, Louis (Machinist), 207 Centre
 †Drummond, M. J., & Co. (Cast Iron Pipe, etc.), 182 B'way. Works, Reading, Pa. & Lynchburg, Va.
 §Dubois, F. N., & Co. (Plumbers' Brass Goods, etc.), 247 9th av
 *DUDGEON, RICHARD (Hydraulic Jacks, Tube Expanders, Presses & Steam Hammers), 24 Columbia. (See adv. index, end of book)
 *Duff & Boden, 175 Grand
 *Dunne, Michael F. (Engineer & Machinist), 223 West
 *Durbrow & Hearne Mfg. Co. (Duplicate Parts, Machinery, etc.), 12 Wooster
 *Dustin, Chas. E. Co. (Electrical Mach'y, etc.), 11 B'way. Works: Orangeburg, N. Y.
 *Ecanbert, Fred'k (Machinist), 18 Rose
 *Edwards & Co. (Electric Appliances), Exterior & 140th
 *§Edwards, Jos. & Co. (Bridge Operating, Dredging, Irrigating, Pumping Machy, etc.), 414 Water
 *Electro-Dynamic Co. (Electric Machy, etc.), 5 Nassau
 *Elliott-Fisher Co. (Book Typewriters, Billing Machines, etc.), 329 Broadway
 §Empire Brass & Metal Works, 290 B'way
 *§Enos Co. (Gas & Elec. Fixtures), 7th av & 16th
 *Erlandsen, Julius (Mattress Machinery, etc.), 172 Centre
 *Ermold, Edward, 652 Hudson
 *Errington, Franklin A. (Machine Tools), 39 Cortlandt
 *†§Fiske, J. W., Iron Works (Iron & Bronze Fdrs.), 56 Park pl
 *Ford, Thos. P. Co. (Steam Specialties), 407 Broome

*†§Fox's, Benj. Sons (Brass & Iron Fdrs. & Machinists), 513 W 34th
 *†Frick, Horace E. Co. (Grey Iron Castings, Grate Bars, etc.), 286 Greenwich Works, Lebanon, Pa.
 †Fuchs & Lang Mfg. Co. (Lithographers' Supplies), 29 Warren. Foundry, Ruthersford, N. J.
 *Fuller, E. C. Co. (Bookbinders' Mach'y.), 28 Reade
 *Fyfe, Alex. C. (Machinist), 641 W 42d
 §Gallagher, James & Sons (Brass Fdrs.), 523 W 45th 87 Centre
 *Ganz, Chas., 523 W 45th 87 Centre
 *Gardam, Wm. & Son (Inc.) (Drilling Machinery, Taps, Dies, etc.), 22 Fulton
 *Garvin Machine Co. (Machine Tools, etc.), 137 Varick
 *Gas Engine & Power Co. & Chas. L. Seabury & Co., Morris Heights
 §Gillen, J. F., & Son, 124 Baxter
 *Goat & Hibbs (Machinists), 2 Reade
 *†§Goubert Mfg. Co. (Iron & Brass Fdrs., Steam Separators, Steam Specialties, etc.), 90 West. Works, Bayonne, N. J.
 *Gould Coupler Co. (Car Couplers, Steel & Malleable Iron Castings, etc.), 347 5th av Works, Depew, N. Y.
 *§Gould, Mersereau Co. (Brass Fdrs. & Finishers), 43 E 19th
 *Grabo, E. O. (Brass Working Machinery), 180 Centre
 *†Graff Furnace Co. (Stoves, Furnaces, etc.), 208 Water
 §Gramercy Brass & Iron Works (Iron & Brass Fdrs.), 206 E 19th
 *Greenlie, Wyatt & Co. (Machinists), 499 Water
 †Grinberg Bros. (Gas & Oil Stoves, etc.), 154 South
 *†§GRISCOM-SPENCER CO. (Coppersmiths, Grey Iron, Brass, Bronze, Castings, Forgings, Tanks, Boilers, Machinery, etc.), 90 West. (See adv. index, end of book)
 §Guerin, P. E. (Inc.) (Brass & Bronze Goods, etc.), 23 Jane
 *Gullberg & Smith (Machinists), 478 Pearl
 *Haiss, Geo. Mfg. Co. (Coal Handling Machinery), Rider av & 141st
 *†Hall Mfg. Co. (Engineers' Specialties), John & Cliff. Works & Foundry, Harrison, N. J.
 *Hall's, Saml. Sons (Bolts & Wrenches, etc.), 229 W 10th
 *Hammond Typewriter Co. (Typewriters), 69th & East River
 §Hampson, Wm. P. (Brass Fdry.), 520 W 22d
 *Hankin, John & Bro. (Heaters & Machinists), 550 W 25th
 *†§Hardware & Woodenware Mfg. Co. (Brass, Bronze & Grey Iron Castings & Hardware, Toys, Specialties, etc.), 693 Broadway
 §Harper, Thomas, 139 Lafayette
 *Hatch, F. E. Co. (Paper Box Machinery), 91 Thompson
 *Hepworth, S. S. Co. (Sugar Machinery), 92 William
 *Heyman, N. H. (Brewers' & Maltsters' Machinery), 438 E 59th
 *Himhoff Machine Co. (Tobacco Cutting Machy.), 128 Mott
 †Hinkle Iron Co. (Iron Fdrs.), 534 W 56th
 *†Hitchings & Co. (Greenhouse Heating Apparatus & Bldrs.), 1170 B'way. Works, Jersey City, N. J.
 *†Hobson & Co. (Agl. Impls., Stoves, etc.), 24 State. Works, Tatamy, Pa., & Phillipsburg, N. J.
 *†§Hoe, Robert & Co. (Printing Presses, *Holub-Dusha Co. (Marble Hole Cutting Machinery, etc.), 1799 1st av
 *Homan, J. & E., 378 W Broadway
 *†Huber, Henry Co. (Plumbing Specialties, Iron Fdrs., etc.), 244 5th av
 *§Hudson Foundry Co., 134 W 49th
 *Hummel, C., & Sons, 320 Pearl
 *Hurd & Haggin (Special Machines, Models, Gasoline Engines, etc.), 310 Hudson
 *Hvass, Chas. (Machinist & Street Sweeping Machines), 509 E 18th
 *Ideal Opening Die Co. (Dies, Tools, etc.), 24 West
 §Iden & Co. (Gas Fixtures), 42 University place
 *†Imperial Repair & Brazing Co., 134 W 49th
 *†INGERSOLL-RAND CO. (Air Compressors, Rock Drills, Mining Machy, & Pneumatic Tools, etc.), 11 B'way. Works, Tarrytown, N. Y., & Phillipsburg, N. J. (See adv. index, end of book)
 *†§International Steam Pump Co. (Steam Pumps, etc.), 115 Broadway

*†JACKSON, WM. H. COMPANY, 29 E 17th (Union Square). (See adv. index, end of book)
 *§Janusch Mfg. Co. (Fire Place Finishings, Brass Fdry. & Finisher), 496 E. 134th
 *†Johnson, Isaac G., & Co. (Steel Castings & Specialties), Spuyten Duyvil
 *†Johnson & Crowley (Printers' Machinists), 182 Centre
 §Kaplan, Kandra & Co., 438 E 77th
 *†Keil, Francis & Son (Bldrs' Hardware), *Keyes, Jas. A., 652 Hudson 401 E. 163d
 *Kissinger, Jacob, 75 Fulton
 *Knickerbocker Machine Works, 8 Jones
 *Krom Machine Works (Mining Machinery) 170 B'way. Works, Plainfield, N. J.
 *Kumberger & Vreeland (Gas Engines), 33 Sullivan
 *†Lalanc & Grosjean Mfg. Co. (Grey Iron Castings, All Consumed by the Company), 299 B'way
 *Leiman Bros. (High Pressure Blowers), 139 Centre
 *Lemmey, T. W. B. (Machinist), 410 W 54th
 †Lenox Iron Works, 1959 Park av
 *Levering & Garrigues Co. (Steel Structural Work), 552 W 23d
 §Levett, Walker M. Co. (Brass, Bronze & Composition Castings), 462 10th av
 *Lewthwalte, T. H. (Punching & Shearing Machinery), 411 E 31st
 *†LIDGERWOOD MFG. CO. (Hoisting Engines, Coal & Ore Handling, Elevating & Conveying, Pile Driving Machy, etc.), 96 Liberty. (See adv. index, end of book)
 *Lindh & Teden (Machinists), 11 Vandewater
 *†Lord & Burnham Co. (Greenhouse Heating Apparatus & Builders, etc.), 1133 B'way. Works, Irvington, N. Y.
 *Loyd, John Co. (Dies, etc.), 560 Water
 *McCabe, Jas. J. (Machine Tools), 33 Church. Works, Jersey City, N. J.
 *McCABE HANGER MFG. CO. (Door Hangers, Ball-Bearing Wheels, Dies, etc.), 425 W. 25th. (See adv. index, end of book)
 §McCauley, Frank, 502 W. 25th
 §McCoy, J. B. & Son (Electric & Gas Fixtures), 114 W. 30th
 *†McCrum-Howell Co., (Hot Air Furnaces, Radiators & Heating Apparatus, etc.), 103 Park av
 *†McDougall & Potter Co. (Steam Hammers, Punching Machinery, etc.), 606 W 55th
 *†McKiernan Drill Co. (Rock Drills & Air Compressors), 115 B'way; Works: Dover, N. J.
 *†McLean, John (Fire Hydrants, Valves, etc.), 440 Water
 *†§McNab & Harlin Mfg. Co. (Iron & Brass Fdrs. & Finishers, Plumbing & Steam Specialties, etc.), 56 John. Works, Paterson, N. J.
 *§Magnolia Metal Co. (Anti-Friction Metal, etc.), 115 Bank
 *§Manhattan Brass Co., 332 E 28th
 *Manhattan Electrical Supply Co. (Electrical Supplies, Plumbers' Brass Goods, etc.), 17 Park Place. Works, Jersey City, N. J.
 †Marcy Stove Repair Co. (Stove, Range & Heater Repairs), 74 Beekman
 *†Marine Mfg. & Supply Co. (Ship Machy., etc.), 158 South
 §Martin, B. M. (Brass Fdry. & Finisher), 473 W B'way
 §Mayor, Lane & Co. (Plumbers' Supplies), 128 White
 *†Mietz, August (Gas Engines, etc.), 87 Elizabeth
 †*Millers Falls Co. (Machinists' Fine Tools & Hardware Specialties, etc.), 28 Warren. Works, Millers Falls, Mass.
 §Mitchell, Vance & Co. (Gas & Electric Fixtures), 503 W 24th
 *†§Mosher Water Tube Boiler Co. (Iron & Brass Castings, Water Tube Boilers, etc.), 30 Church. Works, Ossining, N. Y.
 *†§Mott, J. L., Iron Works (Plumbers' Supplies, etc.), 118 5th av
 *Muller, Chas. A. (Machinist), 66 Centre
 *§Mullaney's, Jas., Sons (Plumbers' Specialties, etc.), 141 E. 25th
 *Multicoil Co. (Condensers, Extractors, Heaters, etc.), 78 Broad
 †Murray Hill Iron Works Co. (Iron Fdrs.), 212 E 37th
 *Nason Mfg. Co. (Machinists), 71 Beekman
 *§Nathan Mfg. Co. (Steam Specialties, Brass Founders, etc.), 85 Liberty. Works, 416 E. 106th

*†National Enameling & Stamping Co. (Grey Iron Castings, All Consumed by the Company)
 *National Meter Co. (Water Meters, Gas Engines, etc.), 84 Chambers
 *Needham, A. W. (Special Machy., etc.), §Nelson, Chas., 439 E 10th 110 E. 43d
 *§Neptune Meter Co. (Water Meters), 90 West. Works, Long Island City, N. Y.
 *NESTOR MFG. CO. (Inc.) (Dies, Special Machinery, etc.), 40 W 13th. (See adv. index, end of book)
 *†New Jersey Zinc Co. (Iron Castings for the Use of the Company; also Machine Shop for Repairs), 55 Wall
 *†New York Air Brake Co. (Air Brakes & R. R. Appliances), 165 Broadway
 *§New York Brass Foundry Co. (Brass Fdrs.), 104 Centre
NEW YORK CONTINENTAL
 Jewell Filtration Co. (Water Filters, etc.), 15 Broad. Works, Jersey City, N. J. (See adv. index, end of book)
 *†New York Foundry Co. (Sash & Elevator Weights, etc.), 8th av & 155th
 *New York Improved Meter Co. (Gas Meters, etc.), 306 E 47th
 *New York Kerosene Oil Engine Co. (Kerosene Engines or Motors), 31 Burling Slip
 *New York Pattern Machine & Die Co., 442 Water
 †Nichols, D. M., Iron Works, 2 Gouverneur st
 *Nleisen, Anton E., 44 Barclay
 *Niles-Bement-Pond Co. (Machine Tools, etc.), 111 B'way
 *O'Day, P. H. & Son (Marine Work, etc.), 253 South
 *Orth, Fred'k (Brass Finisher), 181 Prince
 *†§OTIS ELEVATOR CO. (Electric & Hydraulic Elevators, etc.), 17 Battery pl. Works, Yonkers, N. Y. (See adv. index, end of book)
 *†§Patterson-Alien Eng'g Co. (Valves, etc.), 2 Rector. Works, Jersey City, N. J.
 *Pedersen Mfg. Co. (Tools & Special Machy.), 636 1st av
 *†Pels, Henry, & Co. (Punching & Shearing Machy., etc.), 68 Broad. Works, Jersey City, N. J.
 *Persky & Sumergate (Machinists), 51 Elizabeth
 *Pollard-Ailing Mfg. Co. (Addressing & Mailing Machines), 312 E 23d
 *Prentiss Vise Co. (Vises, etc.), 44 Barclay
 *Prince, John A., 154 W 27th
 *Prybil P. (Est. of), 512 W 41st
 *Purvis, Edw. & Son, 52 Park
 *Quimby, Wm. E. (Pumping Machinery), 44 E 23d
 *†Quintard Iron Works Co. (Iron Fdrs. & Machinists), 742 E 12th
 *†Radley, John J. & Co. Inc. (Iron Fdrs., Hallings, Doors, Shutters, etc.), 18th & E. R.
 *†Railway Steel Spring Co. (Railway Springs, Steel Tired Wheels, etc.), 32 Cortlandt
 *†Ramapo Iron Works (Cars, Castings & General Track Equipment), 30 Church. Works, Hilburn, N. Y.
 *Ramsaler, Gustav (Machinist), 216 William
 *Rathbun & Bird Co. (Printers' & Bookbinders' Machy., etc.), 33 Gold
 *Rau, Emanuel (Paper Bag Machinery, etc.), 136 Thompson
 *†Reedy Elevator Co., 202 9th av. Works, Hoboken, N. J.
 *Reid, Alexander (Engineers & Machinists), 165 Charles
 *Remington Typewriter Co. (Typewriters), 327 Broadway. Works, Ilion, N. Y.
 *†Remington & Sherman (Safes, Vaults, etc.), 359 Broadway
 *Ricardo, Geo., 22 Burling Slip
 *†Richardson & Boynton Co. (Stoves, Furnaces, Ranges, etc.), 232 Water. Works, Dover, N. J.
 *Richardson Scale Co. (Scales, etc.), 3 Park Row
 *†Rider-Ericsson Engine Co. (Hot Air Pumping Engines), 35 Warren
 *Rockwell, L. A. (Bakers' Machy., etc.), 9 Elizabeth
 *†Ronalds & Johnson Co. (Cast Iron Soil Pipe & Plumbers' Castings), 54 Cliff
 *Rosenfeld Mfg. Co. (Coin Operating Machines), 587 Hudson
 Ruhle, John H. (Looms), 517 W. 45th
 *†Safety Car Heating & Lighting Co. (Car Heating & Lighting Apparatus, 2 Rector

*Schlosser Mfg. Co. (Marine & Auto Motors), 151 E. 126th
 *Schmidt, F. L. (Envelope Machy.), 136 Thompson
 *Schock, Gustav, 514 W. 57th
 *§Scholl, Adam, 225 E 138th
 *Schrader's, A Son (Submarine Armor), 30 Rose
 *Scott, Walter & Co. (Printing Machy.), 41 Park Row. Works, Plainfield, N. J.
 *SHAW ELECTRIC CRANE CO., 85 Liberty. Works, Muskegon, Mich. (See adv. index, end of book)
 *SIMMONS, JNO. CO., 104 Centre. (See adv. index, end of book)
 †Simons & Mayer (Iron Railings, etc.), 143 Avenue D
 *†Singer Mfg. Co. (Sewing Machines & Special Machy.), 149 B'way. Works, Elizabeth, N. J.
 Slotkin, Mayer (Buffing & Polishing Machines), 210 Canal
 *†Smith, H. B., Co. (Steam Heating Apparatus, Radiators, etc.), 39 E Houston Works, Westfield, Mass.
 *†Southard-Robertson Co. (Stoves, Ranges, Furnaces, etc.), 255 Water. Works, Peekskill, N. Y.
 *SPRAGUE ELECTRIC CO. (Electric Machinery, Hoists, etc.), 527 W 34th
 *Staley & Gillespie (Electric Elevators, etc.), 445 W. Broadway
 *†Steinway & Sons (Plano Plates, etc.) 109 E 14th. Works, Astoria, Borough of Queens, New York City
 §Sterling Bronze Co. (Bronze Fdrs. & Gas & Electric Fixtures), 107 W 25th
 §Stevens, Howard A. (Brass Finishers), 156 W 27th
 *Stimpson, Edwin B., Co. (Special Machy., etc.), 31 Spruce
 *†Thatcher Furnace Co. (Hot Air Furnaces, Stoves, etc.), 110 Beekman. Works, Newark, N. J.
 *Thompson, Hervey (Builders' Iron Work & Machinist), 176 E 119th
 *Thomson, W. S. (Wood Working Machinery), 418 W 27th
 *Tight Joint Co. (Tight Joint Fittings), 306 E 47th
 *Tirrell Gas Machine Lighting Co., 75 Fulton. Works, Newark, N. J.
 *†Toop, Geo. H., 2572 Park av
 *†Treadwell, M. H. Co. (Cars, Special Machy., Castings, Forgings, etc.), 90 West. Works, Lebanon, Pa.
 *†Turl's, Jno. Sons (Sugar Machy., etc.), 26 Cortlandt. Works, Newburg, N. Y.
 *†Tuttle & Bailey Mfg. Co. (Warm Air Registers, Fine Brass, Bronze & Iron Castings, Bronze Doors & Tablets), 83 Beekman; Works: Brooklyn, N. Y.
 *Underwood Typewriter Co., 241 B'way
 *§Union Equipment & Bronze Co., 1901 Park av
 *†Union Stove Works (Stoves, Furnaces, etc.), 70 Beekman. Works, Peekskill, N. Y.
 *†U. S. Cast Iron Pipe & Foundry Co. (Cast Iron Pipe & Heavy Castings), 71 Broadway
 *†Universal Caster & Foundry Co. (Iron Founders, Ball-Bearing Casters, etc.), 1170 B'way, New York. Works: Newark, N. J.
 *Universal Road Machinery Co. (Road Making Machinery), 120 Liberty
 *Van Allens & Boughton (Printing Presses), 135 William
 §Van Kannel Revolving Door Co., 290 E
 *Wagner, Chas., 587 Hudson 134th
 *§Wasserstrom, Ignatz, 517 W 45th
 *§WATSON-STILLMAN CO. (Hydraulic Machinery, etc.), 50 Church. Works, Aldene, N. J. (See adv. index, end of book)
 *†WEBSTER MFG. CO. (Elevating, Conveying & Power Transmitting Machinery), 88 Reade. (See adv. index, end of book)
 *Wendtland, Wm. (Dies), 216 Centre
 *†§Western Electric Co., 57 Bethune. (See Chicago, Ill.)
 †Westervelt, A. B. & W. T. (Builders' Iron Work), 102 Chambers
 *†Wheeler Condenser & Eng. Co. (Pumps, Condensers & Sugar Machy.), 146 Cedar. Works, Carteret, N. J.
 *†§White Mfg. Co., 556 W 34th
 *Wlebkke, Chas. (Machinist), 135 W 3d
 *†§Williams, John (Brass & Bronze Founders & Wrought Iron Work), 556 W 27th
 *Wurm, Alexius, 25 Beekman

*†§Yale & Towne Mfg. Co. (Builders' Hardware), 9 Murray. Works, Stamford, Conn.
 *†Yost Writing Machine Co. (Typewriters), 343 Broadway
 *Zeidler, Wm. A., Co. (Laundry Machy.), 401 E 103d
 *Zimmermann, Lawrence J. (Iron Railways, etc.), 281 E 148th
 *Zucker & Levitt & Loeb Co. (Machine Tools), 516 W. 25th

Borough of Queens.

EVERGREEN—Brantigan, Hoeizlein
 GLENDALE STATION—*V. & O. Press Co. (Presses, Dies, etc.)
 LONG ISLAND CITY—*§Federal Brass & Bronze Co.
 *§Franklin Brass Foundry (Brass Castings, etc.)
 *Leu, F. (Bottlers' Machinery)
 *†§McGee, Jos., Iron & Brass Fdy. Co. (Iron Fdry.), 51 6th
 *†§Neptune Meter Co. (See New York City)
 †Pirke, John, Foundry Co.
 §Queens Borough Bronze & Brass Foundry
 §Rhoades, R. W. & Co. dry
 *†§Russell Foundry & Machine Works
 *†§Steinway & Sons (Plano Plates, etc.)
 *Sweeney & Gray (Engineers & Machinists)
 MASPETH—(N. Y. City)—*MERRILL Bros. (Mfr. of Turnbuckles, Drop Forgings, Vises, Presses, Drop Hammers, etc.), William st. (See adv. index, end of book)
 *†§Richey, Browne & Donald (Iron Arch'l & Ornamental Work & Castings)

Borough of Richmond.

MILLIKEN—*†§Milliken Bros. (Inc.) (Iron & Brass Foundry & Machine Shop)
 PORT RICHMOND—*Carison & Russ (Inc.)
 WEST NEW BRIGHTON—*†Hunt, C. W. Co. (Hoisting Engines, Electric Locomotives, Cableways, Conveyors, etc.)
 (End of New York City)
 NIAGARA FALLS—*Carborundum Co. (Corundum Wheels & Machinery)
 *Cataract Machine & Auto. Co.
 *†Central Machine Co. (Bookbinders' Machinery)
 *Chisholm-Scott Co. (Pea Hulling Machinery, etc.)
 *†§DOBBIE FOUNDRY & MACHINE Co. (Hoisting Engines, Cars, Cranes, Hoists & Iron & Brass Castings, etc.). (See adv. index, end of book)
 *McGarigle Machine Co.
 †Niagara Foundry Co.
 *Philpot & Leuppie (Machinists)
 *†Ramapo Iron Works (Cars, Castings & General Track Equipment). Works, Hilburn, N. J.
 NORTH HARPERSFIELD—*†Dayton, Wm. H.
 NORTH TONAWANDA—*†§American District
 *Buffalo Bolt Co. Steam Co.
 *†§Buffalo Steam Pump Co. (Steam Pumps, etc.)
 *†§Herschell, Spillman & Co. (Merry-go-Rounds, etc., & Park Carnival Devices)
 *†Niagara Radiator & Boiler Co. (Radiators & Cast Iron Heating Boilers)
 NORWICH—*†Ireland Machine & Foundry Co.
 *Maydole, David, Hammer Co.
 NUNDA—*Foote Mfg. Co. (Concrete Mixers & Gas Engines)
 NYACK—*Ofeldt, F. W. & Sons (Gas & Gasoline Engines, etc.)
 OGDENSBURG—*†§Fell, Jos. E.
 *Glass, John
 *§Hackett, Patrick Hardware Co. (Brass & Iron Founders)
 *†Nash Bros. & Co. (Steam Engines, etc.)
 *§Seeley, John A., Mfg. Co.
 OLD CHATHAM—†Huribut, Geo. A. (Plows & Castings)
 OLEAN—*†Abbott, D. S., Co. (Saw Mill Machinery, etc.)
 *†§Carley Heater Co. (Tan Liquor Heaters & Coolers)
 *Chamberlin Mfg. Co. (Screw Stump Machines)
 *†Luther Mfg. Co. (Punching & Shearing Machinery, etc.)
 *†§Myrick Machine Co. (Gas Engines, etc.)
 ONEIDA—*Coles Tool & Machine Co.
 †Kelly & Kennedy
 *Oneida National Chuck Co. (Drill & Lathe Chucks)
 †Oneida Steel Pulley Co. (Pulleys, etc.)
 *Warner Safety Boiler Co. (Boilers, etc.)
 *Wescott Chuck Co. (Drill & Lathe Chucks)

ONEONTA—*Gorham, H. E. (Machinist)
 *†Titchener-Culver Iron Works
 ORANGEBURG—*Empire Engine & Motor Co. (Air Tools, etc.)
 ORISKANY—†Oriskany Malleable Iron Co.
 OSSINING—*†Ingersoll-Rand Co. (See New York City)
 *Kipp, Abram, Jr. (Machinist)
 OSWEGO—*†Ames Iron Works (Engines & Boilers)
 *Baker, Benj. (Machinist)
 *Howard Thermostat Co. (Heat Regulators, etc.)
 *†Kingsford Foundry & Machine Works (Steam Engines, etc.)
 *Kitts Mfg. Co. (Steam Specialties, etc.)
 *†Oil Well Supply Co. (See Pittsburg, Pa.)
 *†Oswego Boiler & Engine Co. (Engines, Boilers, etc.)
 *†Oswego Bronze & Iron Foundry Co.
 *Oswego Machine Works (Neil Gray, Jr., Prop.), (Paper Cutting Machines, etc.)
 *Oswego Tool Co. (Dies, Tools, etc.)
 *Railway Steel Spring Co. (See New York City)
 OWEGO—*Champion Wagon Co. (Grain Drills, etc.)
 *Stevens, Norton A. (Machinist)
 OXFORD—*Butts-Nash Co. (Machinists)
 PAINTED POST—*†Allen, E. R., Foundry Co.
 PALMYRA—*†Peerless Printing Press Co.
 PARISHVILLE—*Robinson, Myron E.
 PATCHOQUE—*Roe, Justus & Sons (Rowler Awning Fixtures, Tape Measures, etc.)
 PEARL RIVER—*Braunsdorf, Jno. H. (Printing Presses)
 *†Dexter Folder Co. (Paper Folding Machinery)
 PEEKSKILL—*Anderson Machine Works (Machinists)
 *†Crane, Wm. M., Co. (Grey Iron Castings, etc.). (See New York City)
 *†Fox, Joseph M., Iron Works
 *†Naylor Bros. (Brick Machinery, etc.)
 *†Southard, Robertson Co. (Stoves). (See New York City)
 *†Union Stove Works (Stoves, Furnaces, etc.). (See New York City)
 PENN YAN—*†Commercial Iron Works Co.
 PHELPS—*†Crown Mfg. Co. (Grain Drills, etc.)
 *†Zenith Foundry Co. (Stoves, Ranges, etc.)
 PHOENIX—*†Sturgis Bros.
 PIPFARD—*Shattuck, T. N.
 PLATTSBURGH—*†Lozier Motor Co.
 *†Plattsburgh Foundry & Machine Co.
 PORT CHESTER—*†Abendroth Bros. (Cast Iron Pipe, Stoves, Furnaces). (See New York City)
 *†Globe Foundry Co.
 *Port Chester Machine Works
 *Russell, Burdall & Ward Bolt & Nut Co. (Bolts, Nuts, Screws, etc.)
 PORT JERVIS—*†Gordon & Malven Co. (Stoves)
 *†Swinton & Co. (Inc.) (Fdrs. & Hardware)
 POTSDAM—*†Leete, Charles H. (Iron Fdry.)
 POUGHKEEPSIE—*†Adriance, Platt & Co. (Agricultural Implements)
 *Chapinville Wheel Co. (Rakes, Harrows, Seeders & Sowers, etc.)
 *†De Laval Separator Co. (Dairy Implements, etc.)
 *†Dutchess Foundry Co. (Machinery, etc.)
 *Hart, Frederick (Builds and Develops all Kinds of Inventions and Special Machinery)
 *†Hudson River Foundry Co.
 *†Lane Bros. Co. (Door Hangers & Hardware Specialties)
 *Poughkeepsie Brass Foundry
 *†Poughkeepsie Foundry & Machine Co.
 *Sedgwick Machine Co.
 *Standard Machine Key Mfg. Co.
 PULASKI—*†Olmsted, A. E.
 RAMAPO—*†Ramapo Foundry & Wheel Works (Car Wheels & Castings of All Descriptions)
 RAVENA—*†Ravena Iron Co.
 RANDOLPH—*†Pike, F. H. (Foundry & Machinist)
 RICHFORD—*Hilts Wrench & Mfg. Co. (Car Movers, Pipe Wrenches, etc.)
 RIPLEY—*Ripley Pipe Wrench Co. (Pipe Wrenches, etc.)
 RIVERHEAD—*Hudson, S. T. (Agrl. Impls., etc.)
 ROCHESTER—*†American Laundry Machy. Co. (Laundry Machy.). (See Cincinnati, O.)
 *†American Woodworking Machinery Co. (Woodworking Machy.)
 *†Anstice, Josiah, & Co. (Hardware Specialties)
 *Ashley Machine Works, 714 University av
 *Auburn Ball Bearing Co. (Ball Bearings, etc.)
 *Baxendale, T. R. (Machinist), 85 Allen
 *Beers Bros. (Gasoline Engines, etc.), Culver rd at Canal

*Booth Bros. (Shoe Machinery), 22 Brown's race
 *Bourne, Jno. R. (Dies, etc.), 111 State
 *Boutell Mfg. Co. (Apple Evaporating Machinery)
 *Bridgeford Machine Tool Works (Axle Turning & Engine Lathes), 225 Mill
 *Century Cement Machine Co., 181 Main W
 *Clark Novelty Co. (Metal Specialties, Light Machinery, etc.), 380 Exchange
 *†Clum & Atkinson (Plumbers' Brass Goods & Brass & Comp. Castings), 575 Lyell av
 *Cochrane-Bly Co. (Cold Saw Cutting-off Machines, etc.), St. James
 *†Connell & Dengler Machine Co. (Woodworking Machinery), 254 Mill
 *†Co-Operative Foundry Co. (Stoves, etc.)
 *Davis, W. P. Machine Co. (Machine Tools, etc.), 130 Mill
 *Defiance Machine Co. (Check Protectors),
 *Economy Gas Machine Co. (Gas Engines)
 *†Enterprise Foundry Co. (Hot Air Furnaces, Soil Pipe & Castings)
 *Erdle Perforating Co. (Machine Tools, etc.), Mill, cor Factory
 *†Erie Foundry Co. (Iron Fdrs.), 330 Lyell av
 *†Eureka Foundry Co. (Castings, Grates, Manholes, etc.)
 *Funck, Philip, 161 N Water
 *†Galusha Stove Co. (Stoves)
 *†General Railway Signal Co. (Railway Signals, etc.)
 *†Gleason Works (Iron Foundries, Gears, Gear Planers, etc.)
 *Goette, Rudolph, 293 Mill
 *†Heughes, F. L., & Co. (Iron Founders & Builders' Iron Work), 190 South av
 *Hydro-Press Co. (Hydraulic Presses, etc.)
 *Ingle Machine Co., 220 Mill
 *†Jones, J. Emory (Est. of) (Foundry & Machinist), Brown's race, ft Furnace
 *†Judson Governor Co. (Steam Engine Governors), Brown's race & Furnace
 *Klip-Klip Co. (Nail Clippers), 574 Clinton av S
 *KNOWLTON, M. D. CO. (Paper Box Machinery). (See adv. index, end of book)
 *Kohlmetz, Chas. E. & H. L., 178 N Water
 *Kron, Philip (Machinists), 13 Aqueduct
 *Long, Adam A. (Special Machinery, Tools & Dies), 13 Graves
 *Luttwieler Pumping Engine Co. (Pumping Machinery, etc.)
 *Mack & Co. (Edge Tools, Machine Knives), 18 Brown's race
 *Modern Laundry Machine Co. (Laundry Machinery), 123 Ames
 *Morgan Machine Co. (Boxmakers' Machinery, etc.), 1100 University av
 *Mutschler, A. & H. G. (Elevator Motors, etc.), 268 State
 *†National Brass Mfg. Co. (Metal Specialties), 193 Mill
 *†National Car Wheel Co. (See Pittsburg, Pa.)
 *Northway, Thos. J. (Machinist), 92 Exchange
 *Nunn Brass Works (Brass Founders & Finishers), 17 Westworth
 *†OTIS ELEVATOR CO. (See New York City) (See adv. index, end of book)
 *Otis, Frank H., 191 Mill
 *Parry, Samuel R. (Paper Box Machinery), 191 State
 *Patric, Milan N. (Machinists, Punches, Dies, etc.), Bee Hive bldg.
 *†Pullman Mfg. Co. (Hardware Specialties, etc.). Pullman bldg.
 *Rochester Barrel Machine Works (Barrel & Shingle Mill Machinery, etc.), 10 St. James
 *Rochester Electric Motor Co. (Electric Machy, etc.), 3 Frank
 *Rochester Machine Tool Works (Automatic Engines, etc.), 3 Frank
 *Rochester Radiator Co., 268 State
 *Rochester Roll Grinding & Corrugating Co., 218 Mill
 *Rochester Valve Co. (Valves, etc.), Beckley bldg.
 *Ryede Specialty Works (Vending Machines & Metal Specialties), 187 Main W
 *†Sargent & Greenleaf Co. (Bank & Safe Locks, etc.)
 *Schreck, Edw. (Machinist), 22 Spring
 *†Shill Stove Works (Stoves, etc.)
 *Stein, Wm. P. & Co., 282 State
 *†Stromberg-Carlson Telephone Mfg. Co. (Telephones, etc.)
 *Taylor Bros. Co. (Barometers, Hydrometers, etc.), Ames st
 *Tibbills Mfg. Co., 84 Flint

*Trebert Gas Engine Co., 163 W Main
 *Truesdale, S. B. & Co. (Dies, Tools, etc.)
 *Tucker, Geo. A. (Machinist & Small Machinery), 14 Commercial
 *U. S. Standard Voting Machine Co. (Voting Machines)
 *Werner, John (Confectionery Machinery),
 *West Tire Setter Co. (Tire Setters, etc.)
 *Wilson, W. A., Machine Co. (Machine Tools, etc.), 217 N Water
 *Wray, Henry & Son (Brass Founders), 193 Mill
 ROME—†Adams, S. & Son.
 *†Doyle, W. J. (Light Machinery, Brass & Aluminum Castings, etc.)
 *Empire State Engineering Co. (Ice Machines, etc.). (See New York City)
 *Harris, C. S. Co. (Power Hoisting & Carrying Machines)
 *Long-Turney Mfg. Co. (Motors, etc.)
 *Matthews, Jas. H., & Co. (Inc.), (Metal Signs, etc.)
 *†Maxwell & Fitch Co. (Gasoline Engines, etc.)
 Noonan, A. S. Tool & Machine Works (Auto & Bicycle Tools, etc.)
 *†Rome Brass & Copper Co.
 *†Rome Locomotive & Machine Works
 *†Rome Metallic Bedstead Co.
 *†Rome-Turney Radiator Co. (Radiators, etc.)
 *Utica Industrial Co. (Automatic Can Machinery)
 ST. JOHNSVILLE—*Clark Machine Co. (Grain Threshers, etc.)
 SALAMANCA—*†Salamanca Engine Co. (Engines, etc.)
 SALEM—*Wayman, Sam'l T.
 SANDY HILL—*†Friction Pulley & Machine Works
 *Hibbard Gas Engine Co. (Gas Engines, etc.)
 *†Sandy Hill Iron & Brass Works (Paper Mill Mach'y & Iron & Brass Castings)
 SARATOGA SPRINGS—*†Baker & Shevlin Co. (Paper Mill Machinery)
 *Perfect Mfg. Co. (Tools, etc.)
 SAUGERTIES—*†Canner, P. (Brick Machinery & Castings, etc.)
 SAUQUOIT—*Townsend, Z. P.
 SCHENECTADY—*†American Locomotive Co. (Locomotives). (See New York City.)
 *Diamond Novelty Co. (Vending Machines, etc.)
 *†GENERAL ELECTRIC CO. (Electric Generators & Machinery). (See adv. index, end of book)
 *Phillips, S. C. (Broom Machinery)
 *†Westinghouse Co. (Agricultural Implements, Threshers, Stackers, etc.)
 SENECA FALLS—*†American La France Fire Engine Co. (Fire Engines & Apparatus).
 *†Cast Thread Fitting & Foundry Co.
 *Davis, E. C. & Co. (Plumbing Specialties)
 *†GOULDS MFG. CO. (Steam Pumps, etc.). (See adv. index, end of book)
 *†Rumsey & Co. (Steam Pumps, Fire Engines, etc.)
 *†Seneca Falls Mfg. Co. (Foot Power Machinery, etc.)
 SHORTSVILLE—*†American Seeding Mach. Co. (Grain Drills, etc.). (See Springfield, O.)
 *Star Seeder Co. (Agrl. Impls.)
 SIDNEY—*Lakin, Bruce (Machinist)
 SILVER CREEK—*Hammond-Homberger Co. (Mill Machinery)
 *†Howes, S. Co. (Grain, Coffee & Rice Cleaning Machinery, etc.)
 *†Huntley Mfg. Co. (Grain, Rice & Coffee Cleaning Machinery, etc.)
 *†Invisible Grain Cleaner Co. (Flour Mill & Grain Cleaning Machinery, etc.)
 SILVERDALE—*Hicks, J. A.
 SKANEATELES—*Humphries, T. J.
 SODUS—*Hunt Mfg. Co. (Fruit Parling Machines)
 SODUS POINT—*†Seely, D. W.
 SOLVAY—*Pass & Seymour (Electric Specialties)
 SPRINGVILLE—*Smith & Smith (Electric Specialties)
 STOCKPORT—*Phillip, Rossman
 SYRACUSE—*Ames Iron Works (Engines, etc.). The Bastable
 Barber Bros. (Steam & Gasoline Engines)
 *Boggs & Clark (Centrifugal Pumps, etc.)
 *†Boomer & Boschert Press Co. (Presses, etc.), 329 W Water
 *†Bradley, C. C. & Son (Power Hammers, etc.), 432 N Franklin
 *Breads, Fred A. & Co. (Machinists), 328
 *†Caldwell & Ward Brass Co. E Water
 *Carr Bros. (Tool Holders, etc.), 107 N. Franklin
 *†Central City Brass & Mfg. Co.
 *Central City Bolt Co. (Door Hangers, Bolts, Nuts, etc.), 1620 N Salina
 *Continental Machine Co.
 *Crouse-Hinds Co. (Electrical Specialties)
 *Direct Separator Co. (Steam Specialties)

*Dodge Machine Works (Machinists), 920
 *Doyle & Devereaux W Onondaga
 *Dunning, Wm. D. (Plaster Mixers & Pulleys, Shafting & Castings), 329 W Water
 *Edwards, O. M. Co. (Window Fixtures, Railway Devices, etc.)
 †Empire Foundry Co., 325 Wolf
 *†Engelberg Hulier Co. (Rice & Coffee Machinery, Grey Iron & Brass Castings)
 *†Franklin, H. H. Mfg. Co. (Special Alloy Castings)
 *†Frazer & Jones Co. (Harness, Hdwe. & Malleable Iron Castings), 351 W Fayette
 *Frick Bros. (Machinist), 304 Pearl
 *Gale, O. Milton (Tools, Special Machy., Gears, etc.), 303 Wallace
 *†General Foundry & Machine Co. (Grey Iron Castings)
 *†Globe Malleable Iron Co. (Malleable Iron Castings)
 *Gooley & Edlund, 581 S Clinton
 *Herrick, Geo. S. (Machinist), 132 N Warren
 *Houser Elevator Co. (Elevators), 314 E Water
 *Kane & Roach (Carriage Bldrs.' Machinery), Niagara & Shonnard
 Kemp & Burpee Mfg. Co. (Manure Spreaders), 1117 W Fayette
 *King, Wm. P. Tool Works
 *Landers, W. H. & Co. (Stoves, Furnaces, Ranges, etc.)
 *Lefever Arms Co. (Automatic Hammerless Guns, etc.)
 *Leighton, H. J. (Marine Gasoline Engines), 901 W Fayette
 *Lipe, Chas. E. (Est. of) (Dies, Tools & Special Machinery), 208 S Geddes
 *Lipe & Walrath (Broom Sewing Machines), 208 S Geddes
 *Llewellyn & Doyle
 †McVey & Kratz (Brass Founders), 116 Richmond
 *Monarch Typewriter Co. (Typewriters, etc.)
 *Myers Break Firder Co. (Electrical Testing Instruments), 102 S Warren
 *New Process Raw Hide Co. (Cut Gears, etc.)
 *†Oberdofer, M. L., Brass Co. (Brass Founders)
 *†Pierce, Butler & Pierce Mfg. Co. (Radiators & Heating Apparatus), 236 James
 *†Pneumelectric Machine Co. (Coal Mining Machinery, etc.)
 †Reddin Iron Works (Iron Founders), 408 Marcellus
 †Senk, John & Bro. (Brass Founders), 1515 Lodi
 *Shaw Coupling Co. (Power Transmission Appliances, etc.)
 *Smith, L. C., & Bro., Typewriter Co. (Typewriters)
 *†Smith Premier Typewriter Co. (Typewriters)
 *†Smith & Caffrey Co. (Props., Phoenix-Porter Fdry.) (Grey Iron Castings & Ornamental Iron Work), 1425 N Salina
 *†Solvay Foundry Co.
 *Standard Gauge Mfg. Co. (Steam Gauges)
 *†Stearns, E. C. & Co. (Automobiles, Typewriters & Hardware Specialties), 100 Oneida
 *†Straight Line Engine Co. (Grey Iron Castings, Loom or Green Sand to 20,000 lbs.), 218 S Geddes
 †Syracuse Aluminum & Bronze Co. (Composition Castings, etc.)
 *†Syracuse Chilled Plow Co. (Plows, Harrows, Cultivators, etc.), 111 Wyoming
 *Syracuse Faucet & Valve Co. (Brass Founders, Finishers & Plumbers' Brass Goods), 1620 N Salina
 †Syracuse Foundry Co. (Iron Founders), W Towpath nr N Y C R R bridge
 *Syracuse Heater Co. (Heating Apparatus)
 *†Syracuse Malleable Iron Works (Refined Air Furnace & Iron Castings), 121 N Geddes
 †Syracuse Stove Works (Stoves, Ranges & Furnaces)
 *Syracuse Twist Drill Co. (Twist Drills, etc.), 936 Grape
 *Van Wagner, E. B., Mfg. Co.
 *Van Wie Pump Co. (Belt & Power Pumps, etc.)
 TARRYTOWN — *†INGERSOLL - RAND Co. (See New York City). (See adv. index, end of book)
 *Koenig, N. & Sons
 *Maxwell, Briscoe Motor Co. (Motors, etc.)
 THERESA — *†Wakefield, Jas. W.
 THROOPSVILLE — *Meyer & Co. (Coil & Spiral Nuts, Axle Collars, etc.)

TICONDEROGA — *†Ticonderoga Machine Works (Paper & Pulp Mill Machinery)
 TONAWANDA — *†Gille Machine Co. (Brass & Iron Foundry, Deck Engines, etc.)
 *Mahar, John (Engines, Boilers, etc.)
 TROY — *Adams Laundry Machinery Co. (Laundry Machinery)
 *†Bascom & Co. (Stove Patterns, etc.)
 *Bernard, E. G. Co. (Dynamos & Motors, etc.)
 *Bradt Mfg. Co. (Card Machines)
 *Brown, Eugene H.
 *Bunnell, L. S. (Machinist)
 †Burdett-Smith & Co. (Stoves)
 *†Carr, Jos. B. Co. (Chains, etc.)
 *Covert Fire Escape Co. (Fire Escapes, etc.)
 *Covert Mfg. Co. (Hardware Specialties)
 *Excelsior Implement Co. (Agrl. Implem'ts)
 *†Fuller & Warren Co. (Stoves & Heating Apparatus)
 †Gold Coin Stove Co. (Stoves)
 *Gormley, Robert W. & Co. (Textile Machinery, etc.)
 *†Gurley, W. & L. E. (Surveying Instruments, etc.)
 *Hammett, M. C. (Railroad Specialties, etc.)
 *Hanna Mfg. Co. (Engineering Instruments)
 *†Hilslip, Jas. W. (Iron Foundry & Scale Mfr.)
 *Interstate Machinery Co. (Laundry Machinery, etc.)
 †Kemp Brass & Bronze Co. (Brass & Copper Founders, Railroad Castings, etc.)
 *†Knowlson & Kelley (Corliss Engines, Castings, etc.)
 *†Ludlow Valve Mfg. Co. (Iron & Brass Founders, Valves, Fire Hydrants & Water Works' Supplies)
 *†Mahoney Heating, Ventilating & Blower Co. (Furnaces, Boilers, etc.)
 *†Mahony Mfg. Co. (Iron Founders, Builders' Iron Work, etc.)
 †Meneely Bell Co. (Bell Founders, etc.)
 *Micrometer Balance Scale Co.
 *Morey, Alex. W. (Machinist)
 *†National Machine Co. (See Mamaroneck, N Y)
 *†Neemes Bros. (Machinery Castings, Shaking Grates, etc.)
 *†Phillips & Clark Stove Co. (Stoves). (See Geneva, N. Y.)
 *Prankard, Chas. J. & Sons (Paper Box & Laundry Machy.)
 *†Rensselaer Mfg. Co. (Iron Founders, Valves, Fire Hydrants & Waterworks Supplies)
 †Reynolds Chalou Foundry Co. (Heavy Machinery & Small Grey Iron Castings)
 †Reynolds, Geo. W. H. Fdry. Co. (Grey Iron Fdms., etc.)
 *†Ross Valve Co. (Valves, Fire Hydrants)
 *†Taylor Electric Truck Co. (Electric Car Trucks, etc.)
 *Tolhurst Mach. Works (Hydro Extractors, Laundry Machinery, etc.)
 *Tompkins Bros. Co. (Textile Machinery)
 †Torrance Malleable Iron Co.
 *Troy File Works (Files, etc.)
 *†Troy Laundry Machinery Co. (Ltd.) (Laundry Machinery)
 †Troy Malleable Iron Co. (See Watervliet)
 *Troy Scale Co. (Scales)
 *†West Side Foundry Co. (Grey Iron Castings, etc.)
 *†West Side Structural Co.
 TRUMANSBURG — *†Almy, Samuel & Son (Rollers, Plows, etc.)
 *Electric Fittings Co. (Electrical Specialties)
 UTICA — †Blaiser, M. E. & Co. (Gas & Electric Fixtures, Hardware Specialties, etc.)
 *Bossert Electric Construction Co. (Machinists & Electrical Specialties)
 *Childs, Chas. H. & Co. (Cultivators, etc.)
 *Childs, O. J. Co. (Fire Extinguishers, etc.)
 Divine Bros. Co. (Buffing & Polishing Wheels, etc.)
 *Eureka Mower Co. (Cultivators, Mowers, Planters, etc.)
 *Fisher Knitting Machine Co. (Textile Machinery)
 †Foster Bros. Mfg. Co. (Iron Beds, etc.)
 *†Giblin & Co. (Stoves, Furnaces, etc.)
 *†Hart & Crouse Co. (Heating Apparatus, Hot Air Furnaces, etc.)
 *†International Heater Co. (Heating Apparatus, etc.)
 *Jones, Frank L. (Cheese Factory & Creamery Machy. & Supplies)
 †Lortz-Teuscher Co. (Iron Beds)

*Mott Wheel Works (Automatic Parts, Axles, etc.)
 *†Munson Bros. Co. (Flour, Corn & Feed Mill)
 *†New York Radiator Co. (Radiators, etc.)
 *Savage Arms Co. (Fire Arms, etc.)
 *Schrier, Walter (Machinists & Elevators)
 *Sherman, S. F. (Canning Machinery)
 *†Standard Harrow Co. (Cultivators, Harrows, Corn Shellers, etc.)
 †Utica Brass Works (Brass Founders)
 *Utica Drop Forge & Tool Co. (Forgings, Hardware & Specialties, etc.)
 *Utica Fire Alarm Telegraph Co.
 *†Utica Fixture Co. (Gas Fixtures, etc.)
 *†Utica Heater Co. (Heaters & Furnaces)
 *†Utica Pipe Foundry Co. (Cast Iron Soil Pipe, etc.)
 *Utica Sprayer Co. (Sprayer Pumps)
 *†Utica Steam Engine & Boiler Works (Engines, Boilers & Machinery)
 VERNON — *†Pohl, Geo. D. Mfg. Co. (Gasoline Engines, etc.)
 VOORHEESVILLE — †Bloomingdale, Frank Iron
 WALTON — *†Hoyt, L. E. Co. (Fdry.)
 *†Walton Foundry Co.
 WARSAW — *†Warsaw-Winkinson Co. (Enslage Cutters, etc.)
 WARWICK — *Richardson, H. W. & Son
 WATERFORD — *†Eddy Valve Co. (Valves, Fire Hydrants, etc.)
 *Holroyd & Co. (Taps, Reamers, Screw Plates, etc.)
 *King, J. M. Co. (Inc.) ("Buttons," Wire Cutter & Plier Combined)
 *Miller, H. C. (Collar & Cuff Machines)
 †Roberts & Holloway (Brass Fdry.)
 *Snyder & Metcalf (Machine Tools)
 WATERTOWN — *†Bagley & Sewell Co. (Iron Fdms. & Paper & Pulp Mach'y)
 *Barber-Weekes Electrical Co.
 †Brownville Iron Works
 *†Harmon Machine Co.
 *†Lance, Geo. A.
 *†Massey Machine Co. (Machinists)
 *†New York Air Brake Co. (Air Brakes & R. R. Appliances). (See New York City)
 *Stebbins Eng. & Mfg. Co. (Mill Machinery)
 *Union Carriage & Gear Co.
 *†Watertown Engine Co. (S. F. Bagg, Prop.). (Steam Engines, Saw Mills, etc.)
 *Watertown Motor Co. (Motors, etc.)
 Watertown Spring Works
 *Watertown Thermometer Co.
 *Wise, J. B. (Hdw. Specialties, etc.)
 WATER VALLEY — *†Stuart, Parson H.
 WATERVILLE — *†Berrill's, J. A. Sons (Iron & Brass Fdms., etc.)
 *†Waterville Fdry. & Mfg. Co. (Paint Grinding & Mixing Machy.)
 WATERVLIET — *†Aird, Alanson, A. (Cast Iron Bushings & Plugs, etc.)
 †Covert Mfg. Co. (See Troy, N. Y.)
 *†Jones, J. M. Sons (Electric Cars)
 *King Mfg. Co. (Waste Traps, etc.)
 *Meneely, Geo. R., & Son (Car Bearings)
 *Meneely & Co. (Bell Fdms.). (See Troy, N. Y.)
 †Troy Malleable Iron Co. (See Troy, N. Y.)
 †U. S. Arsenal
 *†West Side Foundry Co. (See Troy, N Y)
 WEEDSPORT — *Burritt, O. W. & Bro. (Machine Tools, etc.)
 WELLSVILLE — *†Clark & Norton Mfg. Co. (Engines, etc.)
 *Gallman, C. H.
 *Kerr Turbine Co. (Steam Turbines)
 *†McEwen Bros., Inc. (Steam Engines, etc.)
 WESTMORELAND — *†Westmoreland Malleable Iron Co.
 WEST SHOKAN — *Forbes, Ira C.
 WILLIAMSON — *Fuller & Cooper (Spraying Machines, etc.)
 WOLCOTT — *Curtis, O. M. (Machinist)
 *†Knapp, F. P.
 YONKERS — *†Allen, David E. (Iron Fdry.)
 *Conley, Jno. J. (Machinist & Millwright)
 *Danner, Ad. Co. (Machinist)
 *Hargreaves, John D. (Machinist)
 *Morris, Thos. (Machinist)
 *†Otis Elevator Co. (See New York City)
 *†Saunders', D. Sons (Inc.) (Pipe Cutting & Threading Machines)
 *Segsneider, Rudolph G.
 *Skinner & Connolly (Machinists)
 YOUNGSTOWN — *†Ripson, Wm. & Son (Iron Fdms. & Plows, Cultivators, etc.)

NORTH CAROLINA.

ASHEBORO — *†Asheboro Wheelbarrow & Mfg. Company
 ASHEVILLE — *†Asheville Supply & Fdry. Co.
 *†Sternberg Supply & Foundry Co.

AURORA—*Aurora Mfg. Co. (Farm Impls.)
 *Cherry Implement Co. (Agrl. Impls.)
 BISCOE—*Biscoe Foundry & Machine Co.
 BURLINGTON—*Virginia Bridge & Iron Co.
 (See Roanoke, Va.)
 CARDENAS—*Wake Machine Works
 CHARLOTTE—*American Machine Mfg. Co.
 (Engineers & Machinists)
 *Charlotte Pipe & Foundry Co. (Cast
 Iron Pipe, etc.)
 *Cole Mfg. Co. (Cotton Planters)
 *Fuller Combing Gln Co.
 *Jarrell, W. G. Machine Co.
 *Liddell Co. (Engines & Machinery & Cast-
 ings)
 *Mecklenburg Iron Works (Saw Mill &
 Mining Mach'y, etc.)
 *Moffatt Machinery Mfg. Co. (Pumps,
 Elevators, etc.)
 *Park Mfg. Co., Inc. (Belt & Power Ele-
 vators, etc.)
 CONCORD—*Concord Foundry & Machine
 CORNELIUS—*Miller Mfg. Co. Works Co.
 DUNN—*McKay, J. A. Mfg. Co. (Machin-
 ists & Iron & Brass Castings of All
 DURHAM—*Durham Iron Works (Kinds)
 ELIZABETH CITY—*Elizabeth City Iron
 Works
 FAYETTEVILLE—*Carolina Machine Co.
 *Clark, I. W., Machine Co.
 *Ward, Thos. (Plows, etc.)
 GOLDSBORO—*Dewey Bros. (Iron Fdrs., etc.)
 *Wayne Agricultural Works (Plows, etc.)
 GREENSBORO—*Clymer, L. M.
 *Clymer Machine Works (Steam Heaters,
 Valves, Boxes)
 *Cook-Lewis Foundry Co.
 *Glascok Stove & Mfg. Co. (Stoves &
 Hollow Ware, Plow Castings, Special
 Machinery, etc.)
 *Gray, R. A.
 *Greensboro Boiler & Machine Co. (Boll-
 ers, Corliss Engines, etc.)
 *Newman Machine Co. (Saw Mill Machy.,
 etc.)
 *Petty-Reid Co.
 *Sergeant Mfg. Co. (Fdrs. & Machinists &
 Agl. Impls.)
 *Wysong & Miles Co. (Woodworking Ma-
 GREENVILLE—*Humber, R. L., Machine
 HAWKINS—*Thompson, J., & Son. Works
 HICKORY—*King Heater Co. (Heaters,
 Stoves, etc.)
 *Latta & Martin Pump Co. (Pneumatic
 *Piedmont Fdry. & Machine Co. Pumps)
 HIGHPOINT—*Highpoint Machine Co. (Ma-
 chinists)
 *High Point Metallic Bed Co.
 *High Point Pipe & Fdry. Co. (Soll Pipe,
 etc.)
 JACKSON—*Moore, John E.
 KENLY—*Earle, S. S. (Plows, etc.)
 KINGSTON—*Hodges, E. M.
 LAURINBURG—*Blue, Jno. (Machinist)
 NEWBERN—*A. & N. C. Ry. Shops
 *Newbern Iron Works & Supply Co.
 NORTH WILKESBORO—*Wallace, J. V.
 PEMBROKE—*Pembroke Iron Works (Plows,
 etc.)
 PINETOWN—*Parker, Surrey (Machy., En-
 gines, etc.)
 RALEIGH—*Gill, J. H. (Iron Fdry.)
 *Raleigh Iron Works Co.
 ROCKY MOUNT—*Rocky Mount Machine Co.
 SALISBURY—*Salisbury Supply & Commis-
 sion Co.
 *Thompson, P. H.
 SANFORD—*Moffitt Iron Works Co. (En-
 gines, etc.)
 *Selma Iron Works
 STAR—*Star Machine Co.
 STATESVILLE—*Steele, J. C., & Son (Brick
 Machy., etc.)
 THOMASVILLE—*McKnight, L. G., & Son
 Co.
 WAKE FOREST—*Wake Forest Foundry Co.
 (Plows, etc.)
 WANANISH—*Council Tool Co. (Tools, etc.)
 WASHINGTON—*Mutual Machine Co.
 (Fdrs. & Machinists)
 *Pamlico Iron Wks. (Fdrs. & Machinists)
 WILLIAMSTON—*Woolard, J. L. (Harrows,
 etc.)
 WILMINGTON—*Cape Fear Machine Works
 *Wilmington Iron Works
 WILSON—*Davis, W. J., Machinery Co.
 WINSTON SALEM—*American Aquaholst
 Co. (Pumps, etc.)
 *Forsyth Foundry & Machine Works
 *Reynolds, R. J., Tobacco Co.
 *Salem Iron Works (Engines, Saw Mills,
 Coffee & Rice Plantation Mach'y., etc.)
 *Vance, J. A., & Co. (Fdrs. & Machin-
 ists, Woodworking Machy., etc.)

NORTH DAKOTA.

CANDO—*Cando Implement Co. (Agrl.
 Implements)
 ECKMAN—*Prairie Machine Co. (Agrl.
 Impls.)

FARGO—*Fargo Bridge & Iron Co.
 *Fargo Foundry Co. (Gasoline Engines,
 Light & Heavy Castings)
 GRAND FORKS—*Grand Forks Foundry
 *Ridler & Maguire & Machinery Co.)
 LANGDON—*McMillan Machine Co.
 PARK RIVER—*Holland, Sam'l
 WAHPETON—*Richter, J. J.

OHIO.

ADDYSTON—*U. S. Cast Iron Pipe & Fdry.
 Co. (See New York City)
 AKRON—*Adamson Machinery Co. (Rubber
 Machinery, etc.)
 *Akron Brass & Bronze Foundry Co.
 *Akron Cultivator Co. (Agrl. Impls.,
 Cultivators, etc.)
 *Akron Foundry Co. (Machinery Castings,
 etc.)
 *Akron Friction Clutch Co. (Friction
 Clutches, etc.)
 *Akron Selle Co. (Wagon Gears)
 *Atlantic Foundry Co. (Rubber Mfg. Ma-
 chinery)
 *Brandon Machine Co. (Mitering Machines,
 Mounting Presses, etc.)
 *Bridgewater Machine Co.
 *Budd, Harry T. (Dies, etc.)
 *Burger Iron Co. (Bldrs. Steel Work)
 *Burt Mfg. Co. (Oil Filters, etc.)
 *Christy Steel Co. (Crucible Steel Castings)
 *Crown Drilling Machine Co. (Well Drill-
 ing Machinery)
 Enterprise Mfg. Co. (Metal Specialties &
 Fishing Tackle, etc.)
 *Garl Electric Co. (Annunciators & Tele-
 phones & Apparatus)
 Harpham & Lutz (Machinists)
 *Imperial Electric Co. (Dynamos, Genera-
 tors, etc.)
 *International Harvester Co. (Buckeye
 Works). (See Chicago, Ill.)
 *Jones & Kuhlke (Steam Engine Gover-
 nors)
 *Kile Mfg. Co. (Sucker Rods)
 *Knaak Bros. (Engineers & Machinists)
 *Krisher, P. A., Brass Foundry
 *Lombard-Replogle Engineering Co. (Wa-
 ter Wheel Governors)
 *National Water Wheel Governor Co.
 (Water Wheel Governors, etc.)
 *May & Fieberger Co. (Hot Air Furnaces)
 *Niagara Fire Extinguisher Co. (Fire Ex-
 tinguishers)
 *Nute, T. C. Foundry Co. (Lawn Vases
 & Chairs)
 *Prudential Heating Co. (Hot Water Heat-
 ing Apparatus)
 *Sackmann Mfg. Co. (Inc.) (Steel Stamps,
 Stencils & Seals), 19 Cherry
 *Star Drilling Machine Co. (Well Drill-
 ing Machinery, etc.)
 *Taplin-Rice-Clerkin Co. (Stoves, Fur-
 naces, Clay Working Machy., etc.)
 *Wellman-Seaver-Morgan Co., Cleve-
 land, O.
 *WHITMAN & BARNES MFG. CO.
 (Agricultural Impls., Twist Drills, etc.)
 See also Chicago, Ill. (See adv. index,
 end of book)
 *Williams Foundry & Machine Co. (Pot-
 tery & Rubber Machinery, Friction
 *Wise Furnace Co. Clutches, etc.)
 ALLIANCE—*Alliance Foundry Co. (Grey
 Iron Castings)
 *Alliance Machine Co. (Cranes, Riveters,
 Punches, Steam Hammers, Presses, Shears
 & Rolling Mill Machinery)
 *American Steel Foundries Co. (Open
 Hearth Castings), (See Chicago, Ill.)
 *Bauch, Fred'k (Machy, Castings & Land
 Rollers)
 *MORGAN ENGINEERING CO. (Cranes,
 Steam Hammers & Hydraulic & Roll-
 ing Mill Machy.), (See adv. index, end
 of book)
 *Reeve Bros. Co. (Bollers, Tanks, etc.)
 *Wood Engineering Co. (Tool Grinders,
 etc.)
 ASHLAND—*Hunter, Jas. S.
 *Myers, F. E., & Bro. (Pumps & Agrl.
 Impls., etc.)
 *Safety Door Hanger Co. (Door Hangers)
 ASHTABULA—*American Fork & Hoe Co.
 (See Cleveland, O.)
 *American Snap Co. (Saddlery Hwd. Spe-
 cialties)
 *Ashtabula Mfg. Co. (Hdw. Specialties)
 *Barber Mfg. Co. (Furnaces, Hdw. &
 Plumbers' Specialties & Iron Fdrs., etc.)
 *McKinnon Iron Works (Iron Fdry., etc.)
 *Noyes Heater Co. (Heaters, Furnaces, etc.)
 *Phoenix Foundry & Machine Co.
 ATHENS—*Athens Fdry. & Machine Co.
 AVERY—*Hoover-Prout Co. (Potato Diggers,
 etc.)

BARBERTON—*Babcock & Wilcox Co.
 (Water Tube Bollers & Castings) (See
 *Diamond Match Co. New York City)
 *Pittsburg Valve & Fitting Co. (Valves,
 Pipe Fittings & Iron & Brass Castings)
 BARNESVILLE—*Hall, Geo. D.
 *Watt Mining Car Wheel Co. (Mine Cars
 & Wheels, etc.)
 BATAVIA—*Carroll-Jamieson Machine Tool
 Co. (Foot Lathes, etc.)
 BEDFORD—*Best Foundry Co.
 *Interstate Engineering Co. (Cranes,
 Holsts, Conveying & Special Machinery,
 Steel Structural Work, etc.)
 BELLAIRE—*Bellaire Stove Co. (Stoves)
 *Carnegie Steel Co. (Office Pittsburg,
 Pa.)
 *Dorer, C. L., Fdry. Co.
 BELLEFONTAINE—*Bellefontaine Bridge &
 Steel Iron Co.
 *Bellefontaine Foundry & Machine Co.
 (Steam Shovels, Dredges, Castings, Re-
 pairs, etc.)
 *Bowman, Paul G.
 *Hennessey, D. R.
 *Humphrey, Chas. S.
 *Parker, J. A.
 BELLEVUE—*Ohio Cultivator Co. (Agricul-
 tural Implements, etc.)
 BERE—*Dunham, J. W. & Son (Harrows,
 Corn Shellers, etc.)
 BIG PRAIRIE—*Monitor Sad Iron Co.
 BLUFFTON—*Arras Cream Separator Co.
 (Cream Separators)
 *Bluffton Cream Separator Co.
 *Sanitary Cream Separator Co. (Cream
 Separators)
 *Triplett Meter Co.
 BOWLING GREEN—*Standard Machinery
 Co. (Bolt Cutters, Pipe Machines, etc.)
 *Thornburgh Mfg. Co. (Garden Tools,
 Cultivators, Light & Heavy Grey Iron
 Castings, etc.)
 BRADNER—*Bradner Mach. & Fdry. Co.
 BRIDGEPORT—*Hill, Thomas
 BRILLIANT—*Hunter & Son
 BRYAN—*Bryan Plow Co. (Plows, Harrows,
 etc.)
 *Woodward, Edwin
 BUCYRUS—*American Clay Machinery Co.
 (Brick & Clay Mach'y, etc.)
 *Bucyrus Steel Casting Co. (Basic Open
 Hearth Steel Castings)
 *Carroll Foundry & Machine Co.
 *New York Blower Co. (Blowers, Exhaust-
 ers, Fans, Steam Engines, etc.) (See
 Chicago, Ill.)
 *Shunk Plow Co. (Agl. Impls., Plows,
 Cultivators, etc.)
 BUTLER—*Butler Steel Furnace Co.
 CADIZ—*Chisholm-Scott Co. (Pea Hulling Ma-
 chinery, etc.)
 *Scott & Rogers Co. (Hardware Special-
 ties)
 *Ward, W. G. (Machinist)
 CALDWELL—*Caldwell Mining Car & Fdry.
 Co. (Cars, etc.)
 CANAL DOVER—*Dover Mfg. Co. (Sad-Irons,
 etc.)
 *Hardesty Mfg. Co.
 *Snyder Electric Mfg. Co. (Dynamo & Mo-
 tor Mfrs.)
 *Wagner Bros.
 CANAL FULTON—*Fulton Machine Co. (Agl.
 Implements, Land Rollers, etc.)
 *Fulton Pitt Car Works (Industrial Steel
 Cars, etc.)
 *Fulton Tool Works
 CANTON—*Alliance Foundry Co. (Grey
 Iron Castings)
 *American Roll & Foundry Co. (Rolling
 Mill Machy., etc.)
 *American Sheet & Tin Plate Co. Roll
 Machine Works (Rolling Mill Machy.,
 Arctic Ice Machine Co. (Ice Machine,
 Valves & Fittings)
 *Armor Clad Mfg. Co. (Conductor Pipe
 *Balm, J. A., Mfg. Co. Machinery, etc.)
 *Best Light Co. (Incandescent & Vapor
 Gas Lamp Burners, Aluminum & Brass
 Castings, etc.)
 *Bonnot Company (Brick, Clay Working
 & Cement Machy., etc.)
 *Bucher & Gibbs Plow Co. (Agl. Impls.,
 Plows & Cultivators)
 *Callaghan Machine & Die Co.
 *CANTON BOILER & ENGINEERING
 Co. (Steel Plate Work of All Kinds).
 (See adv. index, end of book)
 *Canton Brass Co. (Aluminum, Brass &
 Bronze Castings)
 *Canton Bridge Co. (Bridges, etc.)
 *Canton Drop Forging & Mfg. Co. (Drop
 Forgings & Machinists)
 *CANTON FOUNDRY & MACHINE
 Co. (Sheet Metal Working Machinery,
 Castings, etc.) (See adv. index, end of
 book)
 *Canton-Hughes Pump Co. (Steam Pumps,
 *Canton Machine Shop
 *Canton Malleable Iron Co. (Saddlery
 Hardware, etc.)

*†§Canton Saw Co. (Woodworking Mach'y, etc.)
 *Canton Tool & Machine Co. etc.)
 *†Cleveland Axle Mfg. Co. (Axles, etc.)
 *Cleveland-Canton Spring Co. (Carriage Springs, etc.)
 †Columbia Iron & Wire Works
 *†Dick, Jos. Agricultural Works (Agricultural Implements)
 *§Diebold Safe & Lock Co. (Bank Vaults, Safes, etc.)
 *Dueber Watchcase Mfg. Co. (Watch Cases, etc.)
 *†§Elbel Co. (Saddlery Hdw. & Castings)
 *Engine & Machinery Co.
 *§Frankham, Wm., & Son (Models, etc.)
 *Gibbs Mfg. Co. (Hardware Specialties)
 *Hampton Watch Co. (Watch Mfrs., etc.)
 *Hurst, H. L. Mfg. Co. (Spray Pumps)
 *Knight Mfg. Co. (Saw Mill Mach'y, etc.) Hardware Specialties, etc.)
 *Kohler, F. E. & Co. (Garden Tools & Hdw.)
 *Leiter Machine & Repair Co. Hdw.
 *†McLain, J. H. Co. (Heating Apparatus, etc.)
 *Miller Pasteurizing Machine Co. (Pasteurizing Machines, etc.)
 *†Miller-Tyson Co. (Pasteurizing Mach'y, etc.)
 *Ney Mfg. Co. (Haying Tools, Carriers, etc.)
 *Ney, V. L. Co. (Haying Tools, Carriers, Lawn Rakes, Post Hole Diggers, etc.)
 *†Novelty Iron Co. (Radiators, Heating Apparatus, Castings, etc.)
 *Pittsburg Pneumatic Co. (Pneumatic Tools, etc.)
 *Power Electric Co. (Electrical Mach'y, etc.)
 *†Royal Foundry & Machine Co. etc.)
 *†Shull Steel Castings & Mfg. Co. (Steel Castings)
 *Skinner Mfg. Co. (Hardware Specialties)
 *†Stark Foundry Co.
 *§Sun Vapor Street Light Co. (Incandescent & Vapor Street Lamps, etc.)
 *Swineford, G. A. Co. (Haying Tools, etc.)
 *Timken Roller Bearing Axle Co. (Roller Bearings for Vehicles, etc.)
 *†United Foundry & Machine Co.
 *†WAGENER STEAM PUMP WORKS (Steam Pumps, etc.). (See adv. index, end of book)
 §Whiteman Mfg. Co. (Tumbler Washers, etc.)
 CARTIAGE—(See Cincinnati, O. etc.)
 CELINA—*†Struckman, Geo. W. (Machinist & Foundry)
 CHAGRIN FALLS—*†Ober Mfg. Co., Woodworking Machinery, Sad-Irons, etc.)
 †Semi-Steel Co. (See Cleveland, O.)
 CHILLICOTHE—*†§B. & O. South Western Railway (Shops)
 *Deschler, August (Machinist)
 *Deweese, F. M. (Lifting Jacks, etc.)
 CINCINNATI—*Ahrens Fire Engine Co. (Steam Fire Engines, etc.), Alfred & Cook
 *Alpine Safe & Lock Co., 903 Freeman
 *§American Brass Works (Plumbers' Brass Work), 426 Plum
 §American Copper & Brass Works, 612 E Front
 *†American Laundry Machinery Co. (Laundry Mach'y, etc.), Norwood
 *†American Tool Works Co. (Machine Tools, Lathes, Planers, Shapers, Drills, etc.), 6th & Eggleston av
 §American Valve & Meter Co. (Water Cranes, R. R. Switches, Valves & Castings), 1125 Gest
 *Andrew, M. L. & Co. (Woodworking Machinery, etc.), 2852 Spring Grove av
 *Atlas Machine & Tool Works, 206 Ludlow
 *Barker, Wm. & Co. (Machine Tools, etc.). Culvert & Pioneer
 *Barnes, Chas. Co., 55 Main
 *†Baum, J., Safe & Lock Co. (Safes)
 §Behrens, F. D., Co. (Harness Specialties, etc.), 124 E. Court
 *Berghausen Machine Co., 601 Lock
 *†Blettner, Jos. B. & Co. (Soap & Candle Mach'y), 1974 Central Ave
 *Block-Pollak Iron Co. (See Chicago, Ill.)
 *†Blymyer Iron Works Co. (Iron Fdrs., Sugar, Coffee & Rice Plantation Mach'y), 2933 Spring Grove av
 †Bollmann-Wilson Foundry Co., 506 E. Front
 *†§Bourbon Copper & Brass Works (Fire Hydrants, Stop Valves, Extension Valve Boxes & Iron & Brass Fdrs., etc.), 618 E Front
 *Bradford Machine Tool Co. (Machine Tools, Engine Lathes, etc.), 657 Evans

*†Bruce, Jno. J., Foundry Co. (Iron Fdrs., Machine Tools, etc.), 2421 Coleraine av
 †Buckeye Foundry Co. (Iron Fdrs., Machinery Castings, etc.), Buck, nr Queen City
 *†§Bullock Electric Mfg. Co. (Dynamos, Generators, etc.), East Norwood
 *Buoh, Fred. Machine Co. (Machinists), 423 Home
 *Burton Range Co. (Steel Ranges), 317 Walnut
 *Carlisle & Finch Co. (Searchlights & Motors, etc.), 231 E Clifton av
 *Champion Tool Works Co. (Lathes, etc.), 2420 Spring Grove av
 *Cincinnati Ball Crank Co. (Machine Handies, Ball Crank)
 §Cincinnati Bell Foundry Co. (Bell Fdrs., etc.), 2933 Spring Grove av
 *†Cincinnati-Bickford Tool Co. (Machine Tools, etc.)
 *†Cincinnati Car Co. (Electric Car Builders)
 *Cincinnati Electrical Tool Co. (Electric Drills & Grinders), 650 Evans
 *Cincinnati Elevator Works (Elevators, etc.), 216 W 2d
 *†Cincinnati Equipment Co. (Locomotives, Cars, Steam Shovels, etc.), Culloms Station
 *†Cincinnati Frog & Switch Co. (Frogs, Switches, etc.), Madison rd. & B. & O. S. W. R. R.
 *Cincinnati Lathe & Tool Co. (Machine Tools, etc.), 2730 Spring Grove av
 *§CINCINNATI MFG. CO. (Brass & Bronze Fdrs. & Ornamental Iron, Brass & Bronze Works), 1243 W 6th. (See adv. index, end of book)
 *Cincinnati Milling Machine Co. (Machine Tools, etc.), Spring Grove av & Alfred
 *†Cincinnati Planer Co. (Machine Tools), 2235 Buck
 *Cincinnati Pulley Machinery Co. (Pulley Lathes), 118 W 2d
 *†Cincinnati Punch & Shear Co. (Punching & Shearing Machinery, etc.), 1422 Plum
 *Cincinnati Shaper Co. (Machine Tools, etc.), Elam & Garrard av
 Cleveland Pneumatic Tool Co., Cleveland, O.
 *Cluthe, G. Co. (Edge Tools & Hdw. Specialties), 28 E Court
 *†Columbia Brake Shoe & Foundry Co., Traction bldg
 *Columbia Iron Works (Bldrs.' Iron Work), 725 Reading Rd
 *Consolidated Time Lock Co. (Time Locks, etc.), 315 W 4th
 *Conway & Co. (Pulleys, etc.), 2507 Western av
 *Cordesman-Rechtin Co. (Woodworking Machines), Butler opp. P. C. C. & St. L. R'y
 *Cordesman, Meyer & Co. (Woodworking Machines, etc.), 55 Central av
 *§Crane & Breed Mfg. Co. (Metallic Burial Cases, etc.), 1227 W 8th
 *Curran, Jas. H. Elevator Co. (Elevators), 114 W 2d
 *†Day, J. H. Co. (Laboratory & Pulverizing Mach'y, etc.), 1144 Harrison av
 §Deckebach, F. C., Sons Co. (Brass Fdrs. & Finishers), 123 W Court
 *Deters, F. & Co. (Pop Corn Mach'y, etc.), 906 Elm
 *Deutschle, Louis (Machinist, Lithographing & Printing Mach'y), 1017 Plum
 *§Douglas, Jno. Co. (Plumbing Goods), 2126 Winchell av
 *Dreses Machine Tool Co. (Machine Tools, etc.), 227 W McMicken av
 *Eagle Tool Co. (Tools, Fire Extinguishers, etc.), Blue Rock & Turrill
 *§Edna Smelting & Refining Co. (Car & Motor Brasses & Castings), 525 Reading rd
 §Electric Railway Equipment Co., 1938 W 8th
 †Elmwood Castings Co. (Grey Iron Castings, etc.), Elmwood pl
 *§Enterprise Brass & Plating Co. (Carriage Mountings, Brass Finishers & Platers, etc.), 2838 Spring Grove av
 *†Erhart, Chris. (Filter Presses, Castings of Every Description, etc.), 1237 W 6th
 §Eureka Brass Works (Brass Fdrs.), 1040 Hulbert av
 †Enreka Foundry Co. (Iron Fdrs., etc.), 1110 Richmond
 *†Fay, J. A. & Eagan Co. (Woodworking Mach'y, etc.), Front & John
 §Fewlass Leen Brass & Iron Co. (Brass Fdrs. & Finishers), 456 E 2d

*Fosdick Machine Tool Co. (Machine Tools), Blue Rock & Apple
 *Francis, Chas. E. & Bro. (Woodworking Mach'y, etc.), 19 E 6th
 *Freeman, Louis G. (Shoe Mach'y), 212 E 9th
 *Frishie Engine & Machine Co. (Engines, etc.), 33 E Water
 *Gang, Wm. E. Co. (Machine Tools), 1543 Queen City av
 *Geier, Jno. (Special Machinery), 325 W 2d
 §Globe Brass Works, 62 Elm
 †Globe Foundry Co., 121 W 2d
 *†Gray, G. A., Co. (Machine Tools), C. H. & D. R. R. & Gest
 *Greaves, Klusman & Co. (Machine Tools & Woodworking Mach'y), Cook & Alfred
 *†Greenwald, I. & E. Co. (Engines, Gears, Powder Mill & White Lead Machinery, etc.), 720 E Pearl
 *Grimm, I. & Co. (Bldrs.' Iron Works), 155 E McMicken av
 †Grossius, Jno. Furnace Co. (Warm Air Furnaces, Heaters, etc.), 409 E 8th
 *HALL SAFE CO. (Safes & Bank Vaults), Spring Grove & Kinney. (See adv. index, end of book)
 *Hardisty & Co. (Augers, Machine Knives, etc.), Harris & Penna. R. R.
 *Hasenzahl, Wm. (Diamond Rock Drills), 315 E 2d
 *†§Haven Malleable Casting Co. (Malleable Iron Fdrs. & Carriage Hdw.)
 *Heliman, Jno. C. (Confectionery Machinery), C. H. & D. Ry. & Gallow
 *Hemplemann & Hector (Special Mach'y, etc.), 57 Murdock blk
 *Henrichson Scale Co. (Butchers' Scales), 1421 Walnut
 §Hilb, L. (Smelting & Refining, etc.), 1254 W 8th
 *Hilbert Machine Co., 2116 Coleraine av
 *Hisey-Wolf Machine Co. (Machine Tool Grinders, Drills, etc.), 2908 Corman av
 §Hoffman-Ahlers Co. (Coppersmiths, etc.), 828 E Pearl
 *Homan & Co. (Candle Moulding Mach'y, etc.), Findlay & Western av
 *Homann Model Works, 427 Main
 §Hoppe, Chas., & Co. (Brass Goods), 632 Main
 *†Houston, Stanwood & Gamble Co. (See Covington, Ky.)
 †Huenefeld, Ernst H. Co., Inc. (Steel Ranges, etc.), 420 E Pearl
 *§Incandescent Light & Stove Co., 420 E Pearl
 *International Harness Machinery Co. (Harness & Leather Working Mach'y), 630 Sycamore
 *Jantz & Leist Electric Co. (Dynamo & Motor Works), York & Western av
 *Johnston, R. C. & Co. (Machinists & Engineers), 633 Walnut
 *Johnston, Wm. T. Co., 520 Main
 *Keene, Geo. C. & Co. (Sheet Metal Workers' Mach'y & Tools), 2327 Florence av
 *†Kern Machine Tool Co. (Upright Drills, Pulley Lathes, etc.), 4657 Spring Grove av
 *King Machine Tool Co. (Machine Tools), Clifton & Spring Grove avs, W P
 *Kingery Mfg. Co. (Confectioners' Mach'y, etc.), 106 E Pearl
 *Kinsey, E. A., Co., 331 W. 4th
 §Kinsley, J. R. (Brass Fdrs.), 115 E 6th
 *§Kirkup, Robt. & Co. (Brass Fdrs. & Finishers, Plumbers' Brass Goods), 616 Lodge
 §Kisinger-Ison Co. (Brass Fdrs. & Street Sweeping Machines & Street Ry. Supplies), 1734 Powers
 †Kline, F. A., & Co. (Stoves), Front & Central
 *§Klotter, Geo. F. Co. (Brass Frs., etc.), 1722 Central av
 *†Knecht, Victor, Co. (Iron Fdrs.), 819 Wade
 *Koenigkramer, F. & F., 1140 York
 *Kuehnle, Jno. & Son (Edge Tools, Machinists' Bits & Cutters for Woodworking Machinery), 2110 Coleraine av
 *†§Laidlaw-Dunn-Gordon Co. (Pumps, Pumping Engines & Mach'y, etc.), 211 W 4th
 *†Lane & Rodley Co. (Air & Gas Compressors, Corliss & Slide Valve Engines, etc.)
 *Le Blond, R. K. Machine Tool Co. (Machine Tools, etc.), 4601 Eastern av
 †Limberg Foundry & Enameling Co. (Enamelled Iron Bath Tubs & Iron Castings, etc.), Florence av. & Symmes

*†Lipp, Louis, Co. (Plumbing Goods), Mitchell av & B. & O. S. W. R. R.
 *Lodge & Shipley Machine Tool Co. (Machine Tools, etc.), 3055 Colerain av
 †Lotze's, A. Sons & Co. (Steel Ranges, Hot Air Furnaces, etc.), N W c 8th & B'way
 *†LUNKENHEIMER CO. (Brass & Iron Fdrs., Steam, Water & Engineering Specialties), Waverly av & Beekman. (See adv. index, end of book)
 *McFarlan & Spilker Mfg. Co. (Picture Frame Mach'y, etc.), 1652 Dorman
 *†McGowan, Jno. H. Co. (Pumping & Tobacco Mach'y & Brass & Iron Fdrs., etc.), 54 Central av
 *McKeown, H. J. (Hoisting Machinery, etc.), 248 Butler
 *MacLeod, Walter & Co. (Paint Spraying Machines, Air Compressors, etc.), 213 E Pearl
 *†Merrie, Hugh (Plumb'g Goods), 124 E 8th
 †Messmer, Andrew, Co. (Brass Fdrs. & Finishers), Patterson & Bank
 *Metzger, J. Mfg. Co. (Machinists), 2165 McLean av
 *Miami Machine Co. (Gasoline Engines, etc.), 2259 Eastern av
 *Miller, Du Brul & Peters Mfg. Co. (Cigar & Cigarette Mach'y, etc.), 507 E Pearl
 *†Miller, Wm. Range & Furnace Co. (Ranges, Furnaces, etc.), 125 E 5th
 †Model Brass Foundry, 1212 Race
 *Monarch Tool Co. (Tool Dies, etc.), 120 Opera pl
 †Monitor Stove & Range Co. (Stoves, Ranges, etc.), C. H. & D. Ry. & Gest
 *Morris, Jno. B., Foundry Co. (Machine Tools), 933 Harriet
 *†Mowry Car Wheel Works Co. (Car Wheels and Iron Castings) 2401 Eastern avenue
 *Muehlmann, Adolph (Tools, etc.), 5th & Elm
 *Mueller Machine Tool Co. (Machine Tools, Radial Drills, etc.), 2427 Colerain
 †National Brass Mfg. Co. (Furniture & Hearshe Trimmings, etc.), 1115 Marshall av
 *National Elevator Co. (Elevators, etc.), 124 Opera pl
 *National Machine Tool Co. (Key Seat Millers, etc.), 208 Lawrence
 *†Nichol, Thos. J., & Co. (Brass Fdrs. & Finishers' Plumber Goods), Pearl & Ludlow
 *Niebling, F. W., Co. (Ice Machines & Fittings), Norwood
 *Nugent Tool Co. (Friction Clutches, etc.), 2163 Central av
 *Nunning, Frank & Son (Machinists, etc.), 215 W 2d
 *†Oberhelman, J. A., Foundry Co., Harrison av & Buck
 *Oesterlein Machine Co. (Machine Tools, etc.), 2850 Spring Grove av
 †Ohio Brass Foundry (Brass Castings, etc.), 209 Lawrence
 *Ohio Knife Co. (Machine Knives, etc.), 9th & McLean av
 †Ohio Pattern Works (Brass Castings, etc.)
 *Parks Ball Bearing Machine Co. (Ball Bearing Machinery)
 *†Peck-Hammond Co. (Hot Air Furnaces, Heating & Ventilating, etc.), 124 E Pearl
 *†Peck-Williamson Heating & Ventilating Co. (Iron Fdrs.), 335 W 5th
 *†Pfau Mfg. Co. (Plumbing Supplies), 536 Reading rd
 *Pfister, Herman (Engineering & Surveying Instruments, etc.), 428 Plum
 *Pocock, Oliver (Sheet Metal Workers' Mach'y & Tools), 1042 Harriet
 *Post-Glover Electric Co. (Electric & Elec. Railway Specialties), 314 W 4th
 †Powell, Wm., Co. (Steam & Engineering Specialties & Brass Fdrs.), 2525 Spring Grove av
 *Precision Machine Tool & Developing Co., 2125 Colerain av
 †Queen City Forging Co. (Carriage Hdw. etc.), Tennyson & Dumont
 †Queen City Brass & Iron Works (Brass), Spring Grove & Garrard av
 †Queen City Foundry Co., Spring Grove av
 *Queen City Machine Tool Co. (Machine Tools), Sycamore & Webster
 *Queen City Punch & Shear Co. (Punching & Shearing Mach'y), 208 Lawrence
 *Rahn Carpenter Co. (Machine Tools), Spring Grove av & Garrard av
 *Randall, J. D., Co. (Harness & Horse Collar Machinery)
 *†Randle Machinery Co. (All Kinds of New & Second Hand Re-Built Machinery), 1723 Powers

*Rechtin, Louis E. & Bro. (Woodworking Mach'y), 412 E Pearl
 *REEDY, H. J. CO. (Elevators, etc.), 15 W 2d. (See adv. index, end of book)
 *Rich Pump Co. (Pumps, etc.), 625 Carr
 †Richter & Co. (Plumbers' Brass Goods), 210 E 9th
 *Robinson, J. M. Mfg. Co. (Sheet Metal Workers & Tools), 3282 Spring Grove av
 Ross, Jas. (Saws, etc.), 107 E Court
 *Ross-Moyer Mfg. Co. (Boot, Shoe & Harness Machinery), 634 Sycamore
 *Schacht Mfg. Co. (Mach'y Specialties), 2727 Spring Grove av
 *Schellenbach & Darling Tool Co. (Reamers, etc.), 211 E 9th
 *Schraver, O. P. & Co. (Hardware, etc.), 621 E Pearl
 †Schroder, J. B. & Co., Builders' Hardware, etc.), 133 E 5th
 *†Schreiber, L. Sons Co. (Structural, etc.), 431 E 8th
 *Schumacher & Boye (Machine Tools), 2245 Spring Grove av
 *Shepard Lathe Co. (Machine Tools), 131 W 2d
 *Shields & Finch (Elevator Gates, etc.), 231 Sycamore
 *Sicking Mfg. Co., 1931 Freeman av
 *Simmons, W. H. & Co. (Machinists), 424 E Second
 *Smith, Myers & Schnier (Steam Engines, Saw Mills, etc.), 621 W Front
 *Smith & Mills (Machine Tools, Crank & Geared Shapers, etc.), Spring Grove av & Township
 *†Stacey Mfg. Co. (Bldrs. Iron Work, Gas Meters, Bench Castings, etc.), Township av & C., C. & St. L. Ry.
 *Standard Die Co. (Cutting Dies, etc.), 125 E Canal
 *†Standard Pulley Co., 1734 Powers
 *Stelger, Leopold (Machinist), cor. Elder & Logan
 *Steptoe, Jno. Shaper Co. (Shaping Machines, etc.), 2951 Colerain av
 *†Stewart Iron Works Co. (See Covington, Ky.)
 *Straub Machinery Co. (Flour Mill Mach'y, etc.), 1956 W 6th
 *Streit, A. Machine Co. (Automobile Engines), Marquis av. & Comfort
 *Stuebing Automatic Machine Co., 23 Gano
 *†Superior Tool & Supply Co. (Mixers, etc.), 500 E Front
 *Swing Electric Co. (Electric Motors), 327 E 6th
 *†Tatum, Saml. C. Co. (Grey Iron Castings, Copying Presses, Binders & Printing Machinery), Colerain av & Monmouth
 *Towsley, Jno. T. Mfg. Co. (Woodworking Mach'y, etc.), Evans N of Gest
 *†Triumph Electric Co. (Ice Machines, Dynamo & Motors, etc.), 610 Baymiller
 *Triumph Mfg. Co. (Bakers' & Butchers' Mach'y), Spring Grove av & Sassafras
 *Tucker Machine Co. (A. P. Tucker, Prop.), (Tool Grinders, etc.), 224 E 9th
 *†Union Iron Works Co. (Builders' Iron Work, etc.), 3331 Colerain av
 †United Foundry Co., Stark & Dunlap
 †United States Aluminum Castings Co. (Roller Brakes, etc.), 1623 Blue Rock
 *United States Electric Tool Co. (Electric Portable Hand Drills & Grinders), 1938 W 8th
 *U. S. Laundry Machinery & Supply Co. Laundry Machinery, 408 E 2d
 *†Van, Jno. Range Co. (Stoves, Ranges, etc.), 5th & Broadway
 *Vandewalle, Chas., & Co., Mt. Echo, nr. 6th
 *†Vanduzen, E. W. Co. (Pumps, Bell Fdrs., Gongs & Brass Castings.), 428 E 2d
 †Varwig Mfg. Co. (Brass Fdrs.), 120 Opera Place
 *Verdin, Kappes & Verdin (Special Machinery, etc.), 62 Central av
 *Victor Safe & Lock Co. (Safes, Bank Vaults, etc.), 320 E 8th
 *Von Wyck Machine & Tool Co. (Machine Tools, Engine Lathes, etc.), Elmore & C. H. & D. R. R.
 †Vulcan Foundry Co. (Iron Fdrs. & Machine Tool Castings, etc.), 3300 Western av
 *Ward, Wm. E. & Co. (Bldrs.' Iron Work), 1347 Central av
 *WARNER ELEVATOR MFG. CO. (Electric & Hydraulic Elevators), Spring Grove av & Alfred. (See adv. index, end of book)

*Watkins Motor Co. (Gas & Gasoline Engines, Laundry Machinery, etc.), 6th & Baymiller
 *†Weir Frog Co. (Frogs, Switches, Crossings, etc.), Beach & Highland av, Norwood
 *Western Automatic Machine Co. (Slot Machines), 29 E. 3rd
 *Wilberding & Brandewiede, 216 E. Court
 *†Willard Machine & Tool Co. (Presses, Tools, Dies, Machinery, etc.)
 *§Williams, D. T. Valve Co. (Valves, Steam Traps, Steam Separators, etc.), 410 E 8th
 *Wolf Electrical Promoting Co. (Cloth Cutting Machinery), 810 Main
 *Wolff Machinery Co., 424 Reading rd
 *†World Mfg. Co. (Stoves, Novelities, etc.), 316 Elm
 Zering, H. Mfg. Co. (Trucks, Cars, Carts, Scales, etc.), 220 Charles
 CIRCLEVILLE—*†Haswell Steel Range & Furnace Co. (Stoves, Ranges, etc.)
 *†Lupton, W. S.
 *Lutz, J. H. (Light & Specialty Mach'y, etc.)
 CLEVELAND—*§Acme Brass Works (Plumbers' Brass Goods), 2662 E 76th
 †Acme Foundry Co. (Fine Light & Medium Grey Iron Castings)
 *Acme Machinery Co. (Bolt, Nut & Rivet Mach'y.), 4533 St. Clair av., N. E.
 †Adams-Bagnall Electric Co. (Arc Lamps, etc.), Stanton & C & P R E
 *Adjustable Collet Co., 211 High av, S E
 *§Aetna Brass Mfg. Co., 4800 Hamilton av
 *Allen, J. A., Machine Co. (Tapping Machines, etc.), 1577 Columbus rd, N W
 †Allyne Brass Fdry. Co. (Aluminum, Brass & Bronze Castings), 2043 E. 61st pl, S. E.
 *American Ball Bearing Co. (Ball Bearings, etc.), Edgewater Park at L. S. & M. S. Ry.
 *§American Brass Mfg. Co. (Brass Finishers, etc.), 715 Woodland av
 *†American Fork & Hoe Co. (Forks, Hoes, etc.), American Trust bldg
 *American Machine & Mfg. Co. (Cranes, Power Hammers, etc.)
 *American Railway Signal Co. (Railway Signals & Switches, etc.), Lakeside av. & 45th
 †American Range & Foundry Co. (Stoves, Ranges, Castings, etc.)
 *†§American Shipbuilding Co. (Ships, Engines, etc.), 2017 Superior av
 *†American Steel & Wire Co. of New Jersey. (See Chicago)
 *†American Stove Co. (Steel Ranges & Gas, Gasoline & Oil Stoves), Perkins av & C. & P. R. R.). (See St. Louis, Mo.)
 *Anderson, V. D., Co. (Cylinder Dryers, etc.)
 †Atlantic Foundry Co. (Iron Fdrs., etc.), 7105 Morgan, S E
 *ATLAS CAR & MFG. CO., THE (Industrial Cars, Axles, etc.), 1289 Marquette rd, N E. (See adv. index, end of book)
 *§Atlas Brass Mfg. Co. (Plumbers' Specialties), 326 Lakeside av., N. W.
 *Automatic Stamping Machine Co. (Machinists), 216 High av, S E
 *Bardons & Oliver (Machine Tools, Turret Machines, etc.), 1133 W. 9th
 *BARTLETT, C. O. & SNOW CO. (Cement, Oat Meal & Paint Mach'y, etc.) French st. (See adv. index, end of book)
 *Bellinger, James G. (Special Machinery, etc.), 1519 E. 32nd, N. E.
 †Bennett Furnace Co. (Furnaces, etc.), 5801 Euclid av., Cleveland, O.
 *Benson, Arza M. Co. (Barrel & Stave Machinery), 6303 Central av, S E
 *§Bishop & Babcock Co. (Brass Fdrs., Pumps, Air Compressors, Fancets & Brass Goods, etc.), 1303 E. 49th, N. E.
 *Bomgardner Mfg. Co. (Lowering Devices), 11810 Detroit av
 *†Born Steel Range Co. (Steel Ranges & Cooking Apparatus), 1984 W 25th, N W
 *†Bowler Foundry Co. (Iron Fdrs.), 1688 Columbus rd, N W
 *†Brightman Furnace Co. (Iron Fdrs.), 2570 B'way
 *Brightman Machine Co. (Machinists, etc.), 7122 Quincy, S E
 †Brooks, T. H. & Co. (Iron Fdrs. & Bldrs.' Iron Works), 3104 Lakeside av
 *§Brookside Brass Foundry & Mfg. Co. (Brass Fdrs. & Finishers), 2315 Selzer

§Bronson-Walton Co. (Hardware Specialties Coffee Mills, etc.), 119 Shore Rd.

*†**BROWN HOISTING MACHINERY** Co. (Coal & Ore Handling Machinery, etc.), St. Clair, N E (See adv. index, end of book)

*†Browning Engineering Co. (Cranes, etc.)

*†Bruce-Macbeth Engine Co. (Engines, Machinery, Iron, Brass & Steel Castings, etc.)

§Buckeye Brass Foundry Co. (Brass Fdrs. & Finishers), 1807 Columbus rd

*Bultman, F. H. & Co. (Gear Cutting Machines, etc.), 2108 Superior

*Burke Machinery Co. (Machine Tools), Perkins & E. 35th, N. E.

*Burton & Johnson (Machinists), 2301 Center, N W

*§Central Brass Mfg. Co. (Brass Fdrs. & Finishers, Plumbing Goods), 6203 Cedar av, S E

*Champion Steel Range Co. (Steel Ranges, etc.), 4050 W. 25th

*Chandler & Price Co. (Printing Presses & Mach'y), 6000 Carnegie av, S E

*Chase Machine Co. (Engines, Towing Machines, etc.)

*§Chicago Pneumatic Tool Co. (Pneumatic Tools), 1241 E 49th, N E. (See Chicago, Ill.)

*Chisholm, Wm., & Sons (Coal & Ore Handling, etc.), 1588 E. 40th, S. E.

*†§**CHISHOLM & MOORE MFG. CO.** (Castings, Chain Holsts, etc.), Lake nr Kirtland. (See adv. index, end of book)

§City Brass Foundry Co. (Brass & Composition Castings), 5310 St. Clair av., N. E.

†City Foundry Co., 4629 Hamilton av

*City Machine Co. (Special Mach'y. & Macaroni Mach'y), 430 Prospect, N W

*Cleveland Armature Works (Dynamos & Motors, Armatures, etc.), 4732 St. Clair av., N. E.

*Cleveland Automatic Machine Co. (Machine Tools), 2269 Ashland rd., S. E.

*Cleveland Block Co. (Malleable Iron Tackle Blocks), 1173 W 11th, N W

*§Cleveland Brass Works, 2102 Abbey av, S. W.

*§Cleveland Bronze & Brass Works (Brass Fdrs. & Plumbers' Brass Goods), 4606 Hamilton av

*Cleveland City Forge & Iron Co., Lakeside av, opp E 45th, N E

†Cleveland Co-operative Stove Co. (Stoves), 2323 E. 67th

*Cleveland Die & Mfg. Co. (Dies, etc.), 1276 W 4th, N W

*§Cleveland Faucet Co. (Faucets, Air Compressors, Pumps, etc.), 708 Frankfort av., N. W.

*Cleveland Flue Cleaner Mfg. Co. (Boiler Flue Cleaners & Emery Wheel Dressers, etc.), 321 Frankfort av, N W

†Cleveland Foundry Co. (Oil & Gas Stoves, etc.), Platt & C. & P. R. R.

*Cleveland Frog & Crossing Co. (R. R. Frogs, etc.), 6917 Bessemer av., S. E.

*Cleveland Gas Meter Co. (Gas Meters, etc.), 2180 E. 65th, S. E.

*§Cleveland Gas & Electric Fixture Co., 940 Prospect av

*†Cleveland Hardware Co. (Founders & Hardware), 1241 E. 45th, N. E.

*Cleveland Ice Machine Co., 1615 Merwin, N. W.

*Cleveland Iron Works Co. (Clam Shell Buckets & Archl. & Ornam. Iron Work)

*Cleveland Lock Co. (Locks, Hdwe. Specialties, etc.), 1297 E. 38th, N. E.

*Cleveland Machine Knife Co. (Machine Knives, etc.), 946 West, N. W.

*Cleveland Machine & Mfg. Co. (Rolling Mill Work & Forgings), 4944 Hamilton av

*Cleveland Meat Chopper Co., 1232 E. 3rd, N. E.

*†Cleveland Planer Works (Machine Tools, etc.), 3148 Superior av

*Cleveland Pneumatic Tool Co. (Pneumatic Tools)

***CLEVELAND PUNCH & SHEAR** Works Co. (Punching & Shearing Mach'y., Grey Iron Castings, etc.). (See adv. index, end of book)

*†Cleveland Steel Casting Co., E 69th & Hubbard av, S E

*Cleveland Steel Range Co. (Steel Ranges, etc.), Detroit & State

*Cleveland Tumbling Barrel & Mfg. Co., 65th & Erie R. R.

***CLEVELAND TWIST DRILL CO.** (Twist Drills, etc.), Lakeside av & 49th. (See adv. index, end of book)

*Clough & Witt Machine Co., 1740 Columbus rd., N. W

*§Cochrane, John A., 1403 E 40th, N E

*†Columbian Hardware Co. (Hdwe. & Specialties), 1296 E 53d

*Cooper, Geo., & Co. (Carriage Springs, etc.), Western Reserve bldg

*Cummer, F. D. & Son Co. (Asphalt, Brick Machinery, etc.), The Arcade

*Damascus Brake Beam Co. (Brake Beams, etc.)

*§Daykin Bros. (Pumps), 1606 W. 25th, N. W.

*De Mooy Bros. (Gas Engines, etc.), 1831 E. 55th, N. E.

*Duplex Hanger Co. (Joist & Wall Hangers), 1247 Marquette N E

*†Duplex Mfg. & Foundry Co. (Catch Basins & Sewer Castings)

*Dyer Co. (Sugar Mach'y), New England bldg

*†Eberhard Mfg. Co. (Saddlery Hdw. & Specialties), Tennyson & C & P R R

†Economy Stove Co. (Gas Ranges, etc.), 2146 Scranton rd

*Edmonds Elevator Co. (Elevators), 519 Champlain

*Electric Controller & Mfg. Co. (Magnetic Clutch Driver), 2698 E. 79th, S. E.

*Elliott Bros. Electric Co. (Dynamos, etc.), 3864 Hamilton av., N. E.

*Elliott, S. K., Electric Co. (Electrical Machinery), 322 Champlain

*Elwell-Parker Electric Co. of America (Generators & Motors, etc.), 4222 St. Clair av, N E

§Empire Brass Mfg. Co. (Brass Fdrs. & Fnsrs., Plumbers' Goods), 3410 Lake av

*†Empire Plow Co. (Plows), 3164 E 65th

*Eureka Machine Co. (Brewers' & Maltsters' Machinery), 2610 Vega av

*Evers Iron Works (Special Mach'y), 1630 Columbus rd., N. W.

*†Fanner Mfg. Co. (Chaplets, Novelties, Brass Beds, etc.), 25th & Bklin. Br., S. W.

§Farnan Brass Works (Brass Fdrs. & Finishers, Steam & Plumbing Goods), 1104 Center, N. W.

*†§Ferro Machine & Foundry Co., Wade bldg

*†Ferroteel Co. (Hot Air Registers, etc.), 425 Prospect av, N W

*Fitzsimons & Co. (Polished Steel Shafting, etc.), 2496 B'way, S E

*Fix's Sons (Steam Flue Welding, etc.), Leonard & Winter

*Foote, Burt & Co. (Machine Tools), 4101 St Clair

§Forest City Electric Co. (Electric Specialties), 5003 Windsor av, N E

†Forest City Fdy. & Mfg. Co. (Hot Air Furnaces, Grey Iron Castings, etc.)

*Franke, H. Steel Range Co. (Steel Ranges, etc.), 1911 Harvard

§Gas Fixture & Brass Co., 318 High av

*Gas Machinery Co., Citizens' bldg. Works, Collinwood, O.

*Geier, P. A., Co. (Machinery, etc.), 5112 St. Clair av., N. E.

*Gerlach, Peter Co. (Pail, Keg, Barrel & Shingle Mill Machinery, etc.), Columbus rd & Winter

*§Glauber Brass Mfg. Co. (Brass Fdrs. & Finishers, Plumbing Goods), 4917 Superior

*Globe Machine & Stamping Co. (Special Machinery & Parts)

*†Grabler Mfg. Co. (Grey & Malleable Iron Castings, Plumbers' Specialties, etc.)

*Grant Automatic Machine Co., 1271 Marquette rd

*Grant-Lees Machine Co. (Gear Cutting Mach'y., etc.), 6901 Quincy av., S. E.

*Gregg Mfg. Co. (Foundry Machinery, etc.), 1318 W 4th

*Hart Mfg. Co. (Pipe Cutting & Threading Machines), E. 3rd & St. Clair

*Hartz, Henry V. & Co. (Special Mach'y, etc.), 2225 Ashland rd, S E

*Hewitt, E. A. & Co. (Machinists), 1232 E 3d

*†Hill Clutch Co. (Clutches & Power Transmitting), 1186 W. 58th

*†Hohlfelder, F., Co. (Hdwe. Specialties, Metal Beds, etc.), Chamber of Commerce bldg

*Homer Commutator Co. (Commutators & Machinists), 4748 Hough av

*Horsburgh & Scott Co. (Gears & Pinions, etc.), 5114 Hamilton

§Hunger & Scheldegger (Brass Fdrs.), 928 Champlain

*Hunt & Dorman Mfg. Co. (Tin, Sheet Iron, Brass & Copper Work, etc.), 2100 Superior av, N E

§Ideal Bronze Co. (Brass & Comp. Castings, etc.), 1263 E 55th

*†Imperial Steel Range Co. (Steel Ranges, etc.), 2900 Detroit av

*Independent Register & Mfg. Co. (Registers, Gas Heaters & Specialties), 1415 W. 9th, N. W.

*Industrial Machine Co., 113 St. Clair av, N E

*§Industrial Pattern & Bronze Co. (Brass & Bronze Castings, Patterns, etc.), 988 E 67th, N E

†Interstate Foundry Co. (Light & Heavy Castings), 3163 E. 61st, S. E.

*Jackson, C. E. & Co. (Machinists), 2098 W 3d

*†Johnston & Jennings Co. (Castings, Power Hammers & Rolling Mill Machinery)

*†§Kilby Mfg. Co. (Nail, Wire, Rolling Mill & Sugar Machinery, Heavy Castings, etc.)

*King Bridge Co. (Coal & Ore Handling Mach'y), Head of E 69th

*Kirk, Latty Mfg. Co. (Bolts, Screws & Children's Steel Express Wagons & Velocipedes, etc.), Madison av, nr W 55th

*Knight, J. C. & Son, 2192 E 65th

*Konigslow, E., Stamping & Tool Works (Dies, etc.), 325 Champlain av., N. W.

*Laganke, Robt. F. (Machinist), 600 Huron rd, S E

§Lake Erie Smelting & Refining Co.

*Lamson & Sessions Co. (Bolts, Rivets, Wrenches, etc.), 2188 Scranton rd., S. W.

Langenau Mfg. Co. (Brass & Iron Hdw. Specialties), Franklin, opp. W 84th

*Lincoln Electric Co. (Dynamos & Motors), E 38th & Kelly av

*†§Loew Mfg. Co. (Brewers' & Bottlers' Machinery & Specialties), Madison c 90th st, N W

*Long-Arm System Co. (Ship Fittings, etc.), 1233 E. 38th, N. E.

*Lord, Bowler & Co. (Stone Working & Wood Extract Mach'y, etc.), 1004 Centre, N W

*Lucas Machine Tool Co. (Machine Tools, etc.), Robison av at L. S. & M. S. Ry.

*M. & G. Machine Co. (Special Mach'y., etc.), 3918 Superior av., N. E.

*†McMyler Mfg. Co. (Quarry & Contractors' Machinery), 1799 Columbus rd., N. W. Works, Warren, O.

†Madison Foundry Co. (Light & Heavy Machinery Castings, Grate Bars, Columns, Sewer Castings, etc.)

*Mather & Waechter (Machinists), 224 High av

*Miller Chemical Engine Co., 1516 Columbus rd

*§Monarch Brass Co. (Plumbers' Brass Goods), 4607 Payne av

§Morreau Gas Fixture Mfg. Co. (Gas & Elec. Fixtures, 1303 Oregon av., N. E.

*Murphy & Donnelly Boiler Co., 2511 Elm, N. W.

*National Acme Mfg. Co. (Screw Machines, etc.)

*National Adding Machine Co. (Adding Machines), 1366 W 70th, N W

†National Car Wheel Co. (See Pittsburg, Pa.)

†National Malleable Castings Co. (Malleable Iron Castings for R. R., etc.)

*National Mfg. Co. (Hdwe. Specialties), The Arcade

*National Safe & Lock Co., 2341 E 69th

*North Electric Co. (Switch Boards & Telephone Supplies), 408 St. Clair

*Ohio Blower Co. (Blowers, Steam Separators, etc.), 328 Prospect av, N W

§Ohio Brass & Iron Mfg. Co. (Plumbers' Brass Goods, etc.), 8200 Franklin av

*Ohio Ceramic Engineering Co. (Brick & Clay Machinery), Berea rd

*Ohio Electric Works (Dynamos, etc.), 6304 Ellen

†Ohio Foundry Co. (Iron Fdrs.), E. 71st & C. & P. R. R., S. E.

*Oram, Jno. S. (Barrel, Stave & Heading Machinery), 1324 E 53d

*Oster Mfg. Co. (Pipe Cutting & Threading Machines), 2057 E 61st Pl

***OTIS ELEVATOR CO., 629 Johnson** av, N W. (See New York City) (See adv. index, end of book)

*†Otis Steel Co. (Steel Castings, etc.), 3131 Lakeside av

*†Palmer & De Mooy Foundry Co. (Grey Iron Castings & Machine & Brass Pattern Shop), Leonard & Winter
 *†Peck, Stow & Wilcox Co., W 3d c Cuyahoga av, S W. (See Southington, Conn.)
 *§Peerless Motor Car Co., E 93d & Quincy av, S E
 *Plotz, Wm. (Tools, etc.), 401 Champlain av., N. W.
 *§Regar Co. (Plumbers' Brass Goods, etc.), 919 West, N. W.
 *Reliance Electric & Engineering Co. (Electric Motors, etc.), Cleveland, O.
 *Reliance Gauge Column Co. (Steam Specialties, etc.), 5902 Carnegie av., S. E.
 *†Republic Stove & Mfg. Co. (Gas Stoves, etc.), 1802 E. 40th, N. E.
 §Rickersberg Brass Co. (Plumbers' Brass Goods)
 †Riverside Foundry Co. (Chilled & Grey Iron Castings for Rolling, Chemical & Rubber Works, etc.), 2021 Carter rd., N. W.
 *Round, David & Son (Hoisting Machinery), 7625 Broadway, S E
 *§Royal Brass Mfg. Co., 3920 Superior
 *§Russ, A. E. Mfg. Co. (Anvils, Vises, Drills), 6813 Wade Park av
 *Sabin Machine Co. (Special Machy., etc.), 5714 Euclid av
 §Sanitary Co. (Brass Fdrs. & Finishers, Plumbing Goods), 1120 Prospect av, S E
 *Sawyer Gear Works, 5122 St. Clair av., N. E.
 §Schneider & Trenkamp Co. (Div. American Stove Co.) (Gas Heaters, Ranges, etc.), 1787 E 40th
 †Semi-Steel Co. (Brick Machy., etc.), New England Bldg
 *†Sly, W. W. Mfg. Co. (Foundry Supplies, etc.), Train av, cor. Junction
 *Smith, W. A. & Co. (Hot Air Furnaces), 625 Champlain av, N Y
 *Spotless Steam Sponger Co. (Sponging Machines), 2124 E 2d
 *§Standard Brass Foundry Co. (Brass Fdrs.), 6332 Central av, S E
 †Standard Car Wheel Co. (Car Wheels), Bessemer av nr Tod
 *†Standard Foundry & Mfg. Co. (Light Grey Iron Castings, etc.)
 *†Standard Lighting Co. (Div. American Stove Co.) (Gas Ranges, etc.)
 *Standard Machine Co., 1730 Columbus rd., N. W.
 *Standard Pump & Engine Co. (Gas & Gasoline Pumping Engines), 522 Prospect av., N. W.
 *Standard Sand & Machine Co. (Sanding Machines, etc.), 5151 St. Clair av., N. E.
 *†Standard Sewing Machine Co. (Sewing Machines), 6402 Cedar av., S. E.
 *†Standard Steel Range & Mfg. Co., 2717 E. 75th
 *Standard Tool Co. (Twist Drills, etc.), Central av & P Ry
 †Superior Foundry Co. (Iron Fdrs.), 3542 E 71st
 *†Taylor & Boggis Foundry Co. (Iron Stoves, Ranges, etc.), 1913 W. 3d
 *†Tinnerman Steel Range Co. (Steel Ranges, etc.), 3522 Vinton av., S. W.
 †Tyler, W. S., Co. (Foundry & Iron & Brass & Wire Work), 3618 St. Clair
 *Union Engineering Co., 1616 Columbus rd., N. W.
 §United Brass Mfg. Co., 3844 Hamilton
 §United State Bronze Co., 1831 Columbus rd
 *†United States Cast Iron Pipe & Foundry Co., ft E 26th. (See New York City)
 *†VAN DORN IRON WORKS CO. (Structural & Cast Iron Work), 2685 E 79th. (See adv. Index, end of book)
 *VAN DORN & DUTTON CO. (Cut Gears, Pinions, Racks, etc.), 2714 E 79th, S E. (See adv. Index, end of book)
 *†Variety Iron & Steel Works Co. (Rolling Mill Machinery, Castings, etc.)
 *Waldeck, Anthony (Wire Dies, etc.), 7607 B'way
 *†Walworth Run Foundry Co. (Warm Air Registers, Hdw. Specialties & Grey Iron Castings), 2488 W 27th, N W
 *Ward Machine Co. (Marine Work a Specialty), 518 Prospect av, N W
 *Warner & Swasey Co. (Machine Tools, etc.)
 *§Weber, L. A., Co. (Brass Goods, etc.), 517 Huron rd
 *†Wellman-Seaver-Morgan Co. (Cranes, Rolling Mill & Coal Handling Machy.)
 *Werner, Emil (Machinist, Molds, Dies & Tools), 1232 E 3d

†West Steel & Iron Casting Co. (Steel Castings, 805 E 70th
 *†Westinghouse Electric & Mfg. Co. (See Pittsburgh, Pa.)
 *†White Co. (Sewing Machines, Automobiles, etc.)
 §Winton Motor Carriage Co. (Automobile Builders), Berea rd. & Madison av
 *†Woodworth-Engert Co. (Car Wheels, etc.), 4926 Hamilton av
 *Worden Tool Co. (Machine Knives), 1854 Scranton rd., N. W.
 COLLINWOOD—*Gas Machinery Co. (See Cleveland, O.)
 *Kuhlman, G. C. Car Co. (Electric Car
 *§L. S. & M. S. R. R. Shops Bldrs.)
 COLUMBIANA — *†Columbian Pump Co. (Steam Pumps, etc.)
 *†Enterprise Mfg. Co. (Steam Engines & Saw Mill Machinery, etc.)
 *Grove & Detwiler (Gas Engines)
 COLUMBUS—*§American Cash Register Co. (Cash Registers)
 *American Mfg. Co. (Mower Attachments, etc.)
 *†American Skein & Foundry Co. (See Racine, Wis.)
 *American Water Motor Co. (Water Motors)
 §Atlas Brass Foundry
 *Baldwin Forging & Tool Co. (Post Hole Diggers, Wrenches, etc.)
 *Berry Bros. (Bolt Nuts, etc.)
 *Blakeslee Concrete Block & Machine Co. (Concrete Block Machines)
 †Bonney-Floyd Co. (Steel Castings)
 *§Brown, Jno. W. Mfg. Co. (Lamps & Brass Fdrs.)
 *Bryant Steel Wheel & Rim Co. (Steel, Wheels & Rims, etc., Automobile)
 *§Buckeye Pump & Mfg. Co. (Pumps, etc.)
 *Buckeye Saw Mfg. Co. (Saws, etc.)
 *†Buckeye Steel Castings Co. (Steel Castings, Car Couplers, etc.)
 *Budd & Ranney Mfg. Co.
 †Carlisle & Shilling Bros.
 *†Case Crane Co. (Cranes, etc.)
 *†Chase Foundry & Mfg. Co. (Industrial Cars, Trucks, etc.)
 *§Columbus Brass Co. (Brass Fdrs. & Finishers, Plumbing Goods)
 §Columbus Carriage Hardware Co. (Carriage Hdw., etc.)
 *Columbus Die, Tool & Machine Co. (Dies, Tools, etc.)
 *Columbus Heating & Ventilating Co. (Hot Air Furnaces, etc.)
 †Columbus Hollow Ware Co.
 †Columbus Iron Fittings Co.
 *†Columbus Machine Co. (Gas & Gasoline Engines, etc.)
 *†Columbus Malleable Castings Co. (Malleable Iron Fdrs., etc.)
 *§Columbus Pneumatic Tool Co. (Pneumatic Tools)
 *Columbus Screw & Machine Co.
 *†Columbus Steam Boiler & Heater Co. (Boilers, Heaters, etc.)
 *Columbus Steam Pump Works (Steam Pumps), 85 W Broad
 *Columbus Structural Steel Co. (Steel Structures, etc.)
 †Columbus Wire & Iron Works
 *Eaton Machine Works (Repair Work of all kinds), 98 W Broad
 †Emrich, C. (Stoves, etc.)
 *†Federal Mfg. Co. (Gas Fixtures, etc.)
 *Francisco Adjustable Concrete Block Machine Co.
 *Hamilton, Geo. W.
 *Hamilton Mfg. Co. (Coal Loaders, etc.)
 *Hann Mfg. Co. (Lawn Mower Attachments)
 *Hayden Automatic Block Machine Co.
 *†Hayden, P. Saddlery Hardware Co. (Iron Fdrs., Saddlery Hardware & Castings, etc.)
 *Hearn, J. C.
 †Hertenstein, M., Co. (Stoves), 1409 S
 *§Hocking Valley Ry. Shops High
 *Hoover, J. B. (Machinists & Surgical Instruments)
 *Jaeger Automatic Machine Co. (Concrete Mixers)
 *†JEFFREY MFG. CO. (Elevating & Conveying, Grain Elevator Appliances, Mining, Phosphate Mill, Power Transmission, etc.), E 1st av & Big Four R. R. (See adv. Index, end of book)
 *†Kilbourne & Jacobs Mfg. Co. (Plows, Trucks, Cart & Road Scrapers, etc.)
 *†Kinnear Mfg. Co. (Rolling Steel Shutters, etc.)
 *Krumm, Martin (Iron Railings, etc.)
 †Lattimer Stove Co. (Stoves, etc.)
 †Leukart, Jacob
 *§Lilley, M. C. & Co. (Regalia & Lodge Supplies)

*Lowe Bros. (Gasoline Engines, etc.)
 †McDonald Bros. (Small Grey Iron Castings)
 *Moeller, Henry
 *Morris, C. E. Co. (Elevators & Bldrs. Iron Work, etc.)
 †O'Brien Bros., 276 W Main
 *†Ohio Brass & Iron Mfg. Co. (Meter
 *Ohio Elevator & Machine Co. (Locks)
 *†Ohio Malleable Iron Co. (Malleable Castings)
 *§Ohio Pump & Brass Co. (Air Pumps, Brass, Bronze & Aluminum Castings)
 *Ohio Tool Co. (Tools, Planes, etc.), 63 N Scioto
 *Ohlen, Jas., & Sons Saw Mfg. Co. (Saws, etc.)
 †Peerless Stove & Range Co. (Stoves & Ranges)
 †Poulton, Edwin (Grey Iron Castings)
 *†RALSTON STEEL CAR CO. (Steel Cars of All Kinds). (See adv. Index & branch offices, end of book)
 †Quad Stove Mfg. Co. (Stoves, etc.)
 *Roberts, O. G. & Co., 152 N 9th
 *Robinson-Tilton Machinery Co.
 *Rockey, D. R. & Son (Pumps)
 †Schreyer, G. (Furnace Mfrs.)
 *Seagrave Co. (Fire Dept. Apparatus, High, nr H V R R
 *Smith & Williams (Machinists), 149 W State
 *Standard Candy Machine Co. (Confectioners' Machinery)
 *Standish Machine & Supply Co. (Foot & Power Hammers)
 *Sun Mfg. Co. (Cash Registers & Coffee Mills, etc.)
 *Union Fork & Hoe Co. (Forks, Hoes, Rakes, etc.)
 *†United States Cast Iron Pipe & Foundry Co. (Cast Iron Pipe), ft of W Goodale. (See New York)
 *Wells, J. D.
 *Weinman Machine Works (Pumps & Air Compressors)
 COLUMBUS GROVE—*Benroth Bros.
 CONNEAUT—*§Conneaut Co. (Gas & Electric Fixtures)
 *Webb, W. H., & Son (Machinist)
 CORNING—†Richardson, Jno. (Iron Fdry., etc.)
 COSHOCTON—*Automatic Polishing Machine Co.
 *†Hay, Houston Axle Co. (Carriage Axles, etc.)
 *†Keagy & Lear Machine Co. (Carriage Axles & Special Machinery)
 †King, W. H.
 CRESTLINE—†Burch Plow Works Co. (Plows, etc.)
 *†Crestline Mfg. Co. (Seamless Brass Pump Cylinders, etc.)
 *†Schill Bros. Co. (Steel Ranges, Furnaces, Castings, etc.)
 CUYAHOGA FALLS—*Falls Hollow Staybolt Co. (Staybolts, etc.)
 *†Falls Rivet & Machine Co. (Power Transmitting Machinery, etc.)
 †Nute Foundry Co.
 *†Turner, Vaughn & Taylor Co. (Chain, Rubber, Wire Machinery, etc.)
 DAYTON—†Advance Foundry Co.
 *Amer. Fred C. (Machinist)
 *American Bolt & Screw Case Co.
 *†American Fence & Forge Co. (Bldrs. Iron Work, etc.)
 †American Foundry & Casting Co.
 †Barney & Smith Car Co. (Cars & Car Wheels, etc.)
 *Bates, D. L. & Bro. Co. (Electric Fans & Motors, etc.)
 *†Brownell Co. (Steam Engines, etc.)
 *†Buckeye Iron & Brass Works (Brass & Iron Fdrs. & Oil Mill Mach'y)
 *†Callahan, W. P. & Co. (Iron Fdrs. & Engines, Ice Machines & Oil Mill Mach'y, etc.)
 *Computing Scale Co. (Computing Scales)
 *Cunningham, Jno. (Elevators, etc.)
 *†Davis Sewing Machine Co. (Sewing Machines & Bicycles)
 *Dayton Electrical Mfg. Co. (Dynamoes, etc.)
 *Dayton Fan & Motor Co. (Fans, Water Motors, etc.)
 *†Dayton Globe Iron Works Co. (Turbine Water Wheels & Paper & Pulp Mill Machy., Power Transmitting Machy., etc.)
 *†Dayton Hydraulic Machinery Co. (Pump Mfrs.)
 *Dayton Machine & Tool Works (Machine Tools)
 *Dayton Machine Works (Labeling Machines, etc.)
 *†Dayton Malleable Iron Co.

§Dayton Mfg. Co. (Brass Fdres., Railroad Supplies, etc.)
 *Dayton Pattern Works (Models, etc.)
 *Dayton Pipe Coupling Co. (Pipe Couplings, Saddles, Sleeves, etc.)
 *Dayton Pitless Scale Co. (Scales)
 *Dayton Pneumatic Tool Co. (Pneumatic Tools)
 *Dayton Specialty Machine Co. (Machinists)
 †Dayton Steel Foundry Co.
 *Dayton Supply Co. (Spraying Pumps, Hose Nozzles, etc.)
 §Dennick, Wm. & Co. (Brass Fdres.)
 *Edgemont Machine Co. (Friction Clutches, Egr Register Co. etc.)
 *Euchenhofer, E. E. (Machinist)
 †Eureka Casting & Machine Co. (Iron Fdres., Tob. Planters, Fence Ratchets, etc.)
 *†Fletcher Mfg. Co. (Electrical Supplies)
 *Foglesong Machine Co. (Horsecollar Machinery)
 *Garrison Machine Works
 †Gem City Stove Co. (Stoves, etc.)
 *Grimes, Chas. D. Machine Works, (Special Machinery)
 *Hawker, W. S., Mfg. Co. (Special Machinery, etc.)
 §Hoban Brass Foundry Co.
 *†Joyce-Cridland Co. (Hydraulic Lever & Screw Jacks, etc.)
 *†Kinsey Mfg. Co. (Stoves & Automobile Fittings)
 †Kramer Bros.' Foundry Co. (Iron Fdres., Labeling Machines, etc.)
 *†Kuhns Bros. (Cast Iron Fittings, etc.)
 *Larkin Mfg. Co. (Fire Dept. Equipments)
 *Legler-Eilerman Co. (Machine Parts, Finished & White Metal Castings)
 *Light, George (Tap Machines, etc.)
 *Meeker Mfg. Co. (Ball Bearing Axles)
 §Miami Brass Foundry (Brass Fdres.)
 *Miami Valley Machine Tool Co. (Engine Lathes, etc.)
 *§National Cash Register Co. (Cash Registers, etc.)
 *National Hot Air Furnace Co. (Machinists, Furnaces, etc.)
 *†New Era Gas Engine Co.
 *†Ohio Foundry Co. (Natural Gas Appliances & Grey Iron Castings)
 *†Ohio Rake Co. (Agl. Impls., Sulky)
 *Ohmer Fare Register Co. (Rakes, etc.)
 *Parrott Mfg. Co. (Plows, etc.)
 *Pasteur-Chamberland Filter Co. (Filters)
 *†Platt Iron Works Co. (Turbines & Machinery, etc.)
 *Plocher, Andrew (Forgings, etc.)
 *Recording & Computing Machine Co. (See Cincinnati, O.)
 *†Raymond, C. W. Co. (Clay Working Mach'y)
 *Roberts, Geo. J. Co. (Steam Pumps, etc.)
 *†Seybold Foundry Co.
 *†Seybold Machine Co. (Bookbinding Machinery)
 *Simonds, A. A. & Son Co. (Planing Knives, etc.)
 †Standard Foundry Co.
 *Steiner, M. & Co.
 *Sterling Elec. Motor Co. (Dynamos & Motor Mfrs.)
 *Trimbach, Geo. (Tools, etc.)
 *Tschudi & McBarron Machine Co. (Bench Drills, etc.)
 *Valle & Kimes (Water Motors)
 *Volta & Muhlenberg (Special Machinery)
 *Weiman, C. J. & Co. (Machinists)
 *Wiedeke, Gustav & Co. (Boilermakers' Tools, etc.)
 *Wilson, David
 DEFIANCE—*American Steel Package Co. (Steel Specialties, etc.)
 *†Defiance Machine Works (Wood Working Machinery, etc.)
 DELAWARE—*Cook Motor Co. (Motors, etc.)
 DELPHOS—*Almy, Geo. F. (Bending Machines)
 *§Delphos Foundry & Mfg. Co. (Chimes)
 DELTA—*Buckeye Gas Engine Co. (Gas Engines, etc.)
 *Cottingham, Louis
 DENNISON—†Dennison Foundry & Engineering Co.
 DESHLER—*§Suber, A. A. (ing Co.)
 DOYLESTOWN—*§Buckeye Aluminum Co.
 *†Sieberling & Miller Co. (Mowers, Reapers, etc.)
 DRESDEN—*Dresden Machine Co.
 EAST LIVERPOOL—*Cain Bros. Foundry & Machine Co. (Machinists)
 *Dean, E. G. (Machinist)
 *†East Liverpool Foundry, Machine & Supply Co.
 *†Patterson Fdy. & Machine Co. (Clay Working Mach'y., etc.)
 EAST PALESTINE—*Roberts Machine Co.
 EATON—*†Ohio Iron & Brass Bed Co.
 ELYRIA—*Beal, Wm. L.
 *Dean Electric Co. (Telephone & Electrical Supplies)

*†Duplex Mfg. & Foundry Co. (Catch Basins, etc.)
 *§Elyria Machine Parts Co. (Automobile Parts & Brass Castings)
 †Elyria Foundry Co.
 *Elyria Gas Engine Co. (Gas & Gasoline Engines, etc.)
 †Fox Furnace Co. (Stoves, Furnaces, etc.)
 *§Garford Co. (Inc.) (Automobile Parts, etc.)
 *Shuart-Fuller Mfg. Co. (Wood Fibre Machinery)
 *Toppliff & Ely Co. (Carriage Hdwe., etc.)
 *†Weller Engineering Co.
 *Western Automatic Machine Screw Co. (Tapping Machines, etc.)
 *Worthington Co. (Tricycles, Golf Goods, etc.)
 FINDLAY—*†Adams Bros. Co. (Machinery & Oil & Gas Well Supplies)
 *Buckeye Traction Ditcher Co. (Traction Ditchers)
 *†Findlay Axe & Tool Co.
 *Hoppenburg, Gustav
 *Marvin, D. E.
 *Went, C. H.
 FOSTORIA—*†Atlas Mfg. Co. (Safes, Stoves, etc.)
 *Copley Machine Co.
 *Western Railway Signal Co. (Railway Signals, etc.)
 FREDERICKTOWN—*†Foote, J. B. Foundry Co. (Bells, Vises & Hardware Specialties)
 *†Zieg, F. B., Mfg. Co. (Road Graders, Hdwe. Specialties, etc.)
 FREEPORT—*†National Light & Heating Co. (Stoves & Gas Generators)
 FREMONT—*Christy Knife Co. (Knives, etc.)
 *Clauss Shear Co. (Shears, etc.)
 *Detroit Model Machine Co.
 *Herbrand Co. (Carriage Hardware & Forgings, etc.)
 *International Cutlery Co.
 *Jackson Shear & Razor Co.
 *§Lake Shore Elec. Ry. Shops
 *§Lehr Agricultural Co. (Cultivators, Harrows, etc.)
 †Lincoln Stove & Range Co. (Stoves, Ranges, etc.)
 GALENA—*Hughes & Smythe (Corn Planters, etc.)
 GALION—*†Freese, E. M., & Co. (Brick & Drain Tile, Machinery, etc.)
 †Gallon Iron Works (Culvert Pipe, etc.)
 †Homer, J. R. (Iron Fdry.)
 *Prame Mfg. Co. (Agl. Implements)
 *Sponhaeder, H. C.
 GALLIPOLIS—*†Gallipolis Foundry & Machine Co.
 †Thompson & Francis Stove Co. (Stoves)
 †Treasur Stove Co. (Stoves)
 GENEVA—*Blanchard, A. L.
 *§Champion Safety Lock Co. (Hardware Specialties, Brass & Comp. Castings)
 *†Geneva Metal Wheel Co.
 *Potter Mfg. Co. (Hdwe. Specialties)
 GIBSONBURG—*Hughes, A. B. (Oil Well Tools, etc.)
 GREENVILLE—*†Ross Supply Co. (Pumps, Windmills, Grey Iron Castings, etc.)
 *Wogeman Mfg. Co. (Gas Engines)
 HAMILTON—*†American Foundry & Machine Co.
 *American Frog & Switch Co. (Frogs, Switches, Switch Stands, Crossings, etc.)
 *Bentel & Margedant Co. (Wood Working Machinery, etc.)
 *†Black-Clawson Co. (Paper & Pulp Mill, Special Mach'y., etc.)
 †Butler Foundry Co.
 *†Central Foundry Co. (Grey Iron Castings, etc.)
 *†Deucher, H. P. Co. (Agl. Impls., etc.)
 *Empire Machine Co. (Traction Engines)
 *†Estate Stove Co. (Stoves, Ranges, etc.)
 *Hamilton Autographic Register Co. (Registers, etc.)
 *§Hamilton Copper & Brass Works (Brewing & Distilling Apparatus, etc.)
 †Hamilton Foundry & Machine Co.
 *†Hamilton Machine Tool Co. (Machine Tools)
 *†Herring-Hall-Marvin Safe Co. (Bank Vaults & Safes, etc.)
 *†Hooven, Owens, Rentschler Co. (Steam Engines, Turbines, Grey Iron Castings, etc.)
 *Krauth & Benninghofen (Machinists)
 *†Long & Allstatter Co. (Agl. Impls. & Power Punching & Shearing Mach'y.)
 †Miami Foundry Co. (Grey Iron Castings)
 *Mosler Safe Co. (Bank Vaults & Safes, etc.)
 *§National Castor Co.
 *†Niles-Bement-Pond Co. (Machine Tools, etc.) (See New York City)
 †Peerless Foundry Co.
 †Phoenix Caster Co. (Furniture Casters)

*§Sanitary Mfg. Co. (Plumbing Goods)
 †Sohn & Rentschler (Iron Fdres., etc.)
 †Victor Foundry & Mfg. Co.
 *West Side Motor Co. (Motors, etc.)
 HARRISON—*†Campbell Corn Drill Co. (Agl. Impls., Corn Drills, etc.)
 HILLSBORO—*†Bell, C. S. Co. (Cane & Feed Mills, Stoves, Farm Bells, etc.)
 *†Gross Cooper Safe Co. (Safes, etc.)
 IRONTON—*Belfont Iron Works Co. (Machine Shop for Use of the Company)
 †Foster Stove Co. (Stoves)
 *Glendenning, Barker & Thomas Co.
 *†Ironton Engine Co. (Steam Engine, etc.)
 *†Ironton Malleable Co.
 *†Olive Foundry & Machine Co.
 JACKSON—*†Crown Pipe & Foundry Co. (Cast Iron Pipes, etc.)
 *Jackson Mfg. Co. (Garden Plows, etc.)
 JACKSON CENTER—*Anderson & Van Et-ton Machine Co. (Folding Machines)
 JOHNSTOWN—*Russler, H. B. (Pumps)
 KENT—*§Miller, J. B., Keyless Lock Co. (Locks)
 *†Peterson Mfg. Co. (Agl. Implements)
 KENTON—*†§CHAMPION IRON CO. (Builders' Iron Work & Castings) (See adv. index, end of book)
 *Dow, Jas. M. (Machinist)
 *Kenton Gas Engine Co. (Gas Engines, etc.)
 *†Kenton Hardware Mfg. Co. (Locks, Iron Toys, etc.)
 *Ohio Machine Tool Co. (Machine Tools, etc.)
 KILBOURNE—*Scott Bros.
 KINSMAN—*†Kiddle, Richard H.
 LAKEWOOD—*Lakewood Wash Tray Co. (Plumbers' Specialties, etc.)
 LANCASTER—*†§Alten's Fdy. & Machine Works
 *†Eagle Machine Co. (Agl. Impls.)
 *†Hocking Valley Mfg. Co. (Agl. Impls., etc.)
 LEETONIA—*Buckeye Tool Co. (Mining Tools, etc.)
 *†Crescent Machine Co. (Wood Working Mach'y)
 †Leetonia Boiler Co. (Blast Furnace Work, etc.)
 LEIPSIC—*†American Fdry. Co. (Gas & Oil Engines & Grey Iron Castings)
 LEXINGTON—*Smith Gas Power Co. (Suction Gas Producers)
 LIMA—*Angell, C. W. (Electrical Mach'y)
 *†East Iron & Machine Co. (Asphalt Plants, Steel Construction & Iron Castings)
 *Golley & Finley Iron Works (Engines, etc.)
 †Independence Iron Works Co.
 *†Lima Engine & Mfg. Co. (Gas Engines, etc.)
 *†Lima Locomotive & Machine Co. (Locomotives, etc.)
 *†Ohio Steel Foundry Co.
 *Pennell Bros. & Burden Co. (Oil Well Jacks, etc.)
 *Rhoda Bros. (Wagon & Carriage Hdw.)
 *Sinclair & Morrison Co. (Drilling Tools, etc.)
 *Vicary, Geo. S. (Machinist)
 LISBON—*Wright Mfg. Co. (Mach'y., etc.)
 LOGAN—*†§Logan Foundry & Machine Works (Plows, etc.) (See Cleveland, O.)
 *Brown-Cochran Co. (Gas & Gasoline Engines & Ice Machines)
 *Brunk Machine & Forging Co.
 †Dunstan Mfg. Co.
 *Hoffman Heater Co. (Heaters, etc.)
 †Lorain Casting Co. (Iron & Brass Casting, etc.)
 *Lorain Machine & Forge Co.
 §National Stove Co. (Am. Stove Co.), (Oil Stoves & Heaters)
 *†National Tube Co. of Ohio (Grey Iron & Brass Castings)
 *Thew Automatic Shovel Co. (Steam Shovels, etc.)
 *§Union Brass & Iron Works (Iron & Brass Castings)
 LOUDONVILLE—*Sprang, Wm.
 LOUISVILLE—*Buckeye Jack Mfg. Co. (Hoisting Jacks)
 *Louisville Machine Works
 McCLURE—*Adams, S. S. (Machinist)
 MADISON—*†Genung, C. W. (Agl. Impls.)
 MALTA—*†Brown-Manly Plow Co. (Agl. Implements, etc.)
 MALVERN—*†Stoltz & Schrieber (Iron Fdres & Machinists)
 MANSFIELD—*†Aultman & Taylor Machinery Co. (Agl. Impls., Traction Engines, etc.)
 *†Babcock & Wilcox Co. (Water Tube Boilers & Castings) (See New York City)

- *Barnes Mfg. Co. (Pumps, etc.)
 *Barr Cash & Package Carrier Co. (Cash & Package Carriers)
 †Baxter Stove Co. (Stoves)
 †Berry, J. H.
 *Browning Mfg. Co.
 *Browning, V. R. & E. H. (R. R. Cranes, etc.)
 †Buckeye Tempered Copper & Brass Co.
 †Eclipse Stove Co. (Stoves)
 *Fernyak Machine Co. (Engines, Tools & Dies)
 †Humphryes Mfg. Co. (Enameled Iron Bath Tubs, Pumps, Cocks & Bibbs, etc.)
 *Ideal Electric & Mfg. Co. (Electric Machinery, etc.)
 *Lean, Roderick Mfg. Co. (Mowers, Laid Rollers, etc.)
 †Mansfield Brass Foundry Co. (John H. Barry, Prop.)
 †Mansfield Foundry Co. (Grey Iron Castings)
 †Mansfield Tempered Copper Co. (Brass & Bronze Castings, Commutator Bars, etc.)
 *North American Watch Co.
 New Method Co. (Gas Stoves, etc.)
 †Ohio Brass Co. (Electric Railway & Steam Specialties)
 *Phoenix Electric Co. (Dynamoes & Motors, etc.)
 †Safety Cylinder Valve Co.
 †Union Foundry & Machine Co. (Agri. Impls., etc.)
- MARIA STEIN—†New Idea Spreader Co. (Agri. Impls., etc.)
 MARIETTA—*Cline Bros. Machine Works
 *Leidecker Tool Co. (Well Drilling Machinery, etc.)
 †Marietta Mfg. Co. (Stoves)
 †Nye, A. T., & Son Co. (Stoves)
 †Pattin Bros. Co. (Steam Engines & Grey Iron & Brass Castings)
 *Salzman, G. O.
 *Star Roofing & Machine Co.
 MARION—†American Malleable Casting Co.
 *Berry Electrical Mfg. Co. (Lightning Arresters)
 †Fairbanks Steam Shovel Co. (Steam Dredges, Traction Engines, Ditching Machines, etc.)
 †Huber Mfg. Co. (Agri. Impls., Engines, etc.)
 †Implement Mfg. Co. (Agri. Impls., etc.)
 †Marion Steam Shovel Co. (Dredging, Excavating, etc.)
 *Titus Machine Works (Drill Presses, Vises, etc.)
- MARKLE—†Conn, Geo. L. Foundry Co.
 MARTIN'S FERRY—†Mann, Wm.
 *McDermott Tool Works
 †Spence-Baggs Stove Co. (Stoves)
 †Stanton Heater Co. (Furnaces, etc.)
- MARYSVILLE—†Turner, Richard
 MASSILLON—*Harrison, W. R., & Co. (Fodder Cutters, etc.)
 †Hess, Snyder Co. (Pulleys, Furnaces & Stoves)
 *Kimble & Segner
 *Massillon Engine & Thresher Co. (Engines, Threshers, etc.)
 †Massillon Foundry Co. (Iron Fdrs.)
 †Massillon Foundry & Mach. Co. (Steam Hammers, Industrial Cars, etc.)
 †Massillon Iron & Steel Co. (Cast Iron Pipe & Heavy Castings, etc.)
 †Russell Engine Co. (Engines & Machinery Castings)
 †Russell & Co. (Engines, Threshers & Saw Mills)
- MECHANISBURG—*Packham-Crimper Co. (Sheet Metal Workers' Machinery & Tools)
 MEDINA—*Kraver, S. K. & Son
 †Medina Foundry Co. (Castings, etc.)
- MIAMISBURG—*Allen, D. H. & Co. (Specialties)
 †Hoover & Gamble Co. (Twine & Cordage Machinery & Agri. Impls.)
 *Kauffman, J. A. (Trip Hammers)
 *Shuey, Frank (Machinists)
- MIDDLEFIELD—*Middlefield Mfg. Co. (Hot Air Engines)
 MIDDLEPORT—†Ohio Machine Co. (Brick Machines, Mill & Furnace Castings, etc.)
 MIDDLETOWN—†American Rolling Mill Co.
 *Barkelew Electric Mfg. Co. (Electrical Specialties)
 †Miami Cycle & Mfg. Co. (Cycles, etc.)
 †Middletown Machine Co. (Gas Engines)
 *Shurtle Bros. Machine Co. (Paper Mill Machy.)
- MILAN—*Curtis Machine Co. (Thresher Parts)
 MILLERSBURG—†Millersburg Foundry & Machine Works
 MINERAL RIDGE—†Mineral Ridge Mfg. Co. (Steam Hoists, etc.)
 MINERVA—*Jobes, Emmor
- MINSTER—†Minster Machine Co. (Power Transmitting, etc.)
 MONTPELIER—*Wingert Foundry & Furnace Co.
 MORRAL—*Morral Bros. (Canning Machinery, etc.)
 MOUNT GILEAD—†Hydraulic Press Mfg. Co. (Presses, Sugar Mills, etc.)
 MOUNT STERLING—*Carter Wire Fence Machy Co. (Fence Machy)
 MOUNT VERNON—†Black, E. L. Furnace Co.
 †Cooper, C. & G. Co. (Corliss Engines & Heavy Castings)
 *Mount Vernon Bridge Co. (Structural Steel Work)
- NAPOLEON—†Heller-Ailer Co. (Wind Mills, etc.)
 NELSONVILLE—†Nelsonville Foundry & Machine Co. (Mining, Elevating & Conveying Machinery)
 NEWARK—†B. & O. R. R. Shops
 †Central City Stove Works (Stoves, etc.)
 †Jewett Car Co. (Car Builders, etc.)
 †McNamar, J. J. D.
 †Newark Machine Co. (Agri. Impls., etc.)
 †Scheidler Machine Works Co. (Engines, etc.)
 †Simpson Heater Co. (Hot Air Furnace, etc.)
 †Thomas, Jas. E. & Co. (Ingot Molds, Castings, etc.)
 †Wehrle Co. (Stove Mfrs.)
- NEW BREMEN—†Lanfersieck & Grothaus Co. (Agri. Impls., Plows, etc.)
 NEW COMERSTOWN—†Clow, Jas. B. & Sons. (See Chicago, Ill.)
 *Curby, A. L. & Son
 *Rex File & Saw Co. (Files, Saws, etc.)
 NEW LEXINGTON—*Star Mfg. Co. (Agri. Impls., Mine Cars & Wheels & Feed Grinders)
 NEW LONDON—*Arnold-Creager Co. (Brick & Clay Mach'y)
 NEW PHILADELPHIA—*New Phila. Machine & Repair Co.
 †Sharp Foundry & Machine Co.
 †Spicer Mfg. Co. (Agri. Impls., etc.)
- NEW RICHMOND—†Columbia Brake Shoe & Foundry Co. (See Cincinnati, O.)
 NEWTON FALLS—†Grinnell & Borland (Stoves)
 NILES—†Globe Foundry & Machine Works
 *Harris Automatic Press Co. (Printing Presses)
 *Niles Car & Mfg. Co. (Car Builders)
 †Niles Mine & Mill Supply Co.
 *Standard Electrical Mfg. Co.
- NORTH AMHERST—†Rice, J. J. (Iron Fdry.)
 NORTH BALTIMORE—†Hardy Machine Co. (Oil Well Mach'y, etc.)
 NORTH BLOOMFIELD—*Chapman, W. A.
 NORTH FAIRFIELD—†Harvey, S. L. (Plows, etc.)
 NORWALK—*Kavanaugh, Wm. Co. (Gas & Gasoline Engines, etc.)
 *Miller Anchor Co. (Anchors & Chains, etc.)
 †Norwalk Iron & Brass Foundry Co. (Iron & Brass Castings)
- NORWOOD—(See Cincinnati, O.)
 OAKHARBOR—*Bense Motor Co.
 *Ohio Road Machinery Co. (Road Machinery, etc.)
 OAK HILL—†Oak Hill Foundry & Mach. Works
- OLMSTED FALLS—†Wallace Mfg. Co. (Vapor Stoves, etc.)
 ORRVILLE—*Champion Thresher Co. (Agri. Impls.)
 *Cyclone Drill Co. (Well Drilling Mach'y)
 †Orr Foundry Co. (Engines, Drills, etc.)
- OTTAWA—*Ottawa Motor Co. (Motors, etc.)
 PAINESVILLE—*Blackmore, Jno. (Machinist)
 †Coe Mfg. Co. (Veneer Machinery)
 *Globe Mfg. Co. (Hardware Specialties, etc.)
 PEEBLES—†Suffron, C. E.
 PIQUA—†Bowdle Bros.
 *Champion Paper Cutter Co.
 †Favorite Stove & Range Co. (Stoves)
 *French Oil Mill Machinery Co. (Oil Mill Machinery, etc.)
- PLAIN CITY—†United Cement Machinery
 PLYMOUTH—*Brown & Dick Mfg. Co.
 †Fate, J. D. Co. (Brick Machinery)
 †Heath Foundry & Mfg. Co. (Lawn Mowers, Machines, etc.)
- POMEROY—†Pomeroy Machine Co.
 PORTAGE—*Laramora, O. O.
 PORTSMOUTH—*Brunner, Jacob (Machinist)
 †Ohio Stove Co. (Stoves)
 †Portsmouth Machine & Casting Co.
 †Portsmouth Steel Co. (See Wheeling, W. Va.)
- †Portsmouth Stove & Range Co. (Stoves, etc.)
 *Simpson Bros (Brick Makers' Mach'y)
 PRAIRIE DEPOT—*Johnson, John W.
 RAVENNA—†Browning Foundry Co.
 †Byers, John F. Machine Co. (Hoisting Machinery, etc.)
 †Ravenna Furnace & Heating Co.
 †Williams, A. C. Co. (Sad Irons, etc.)
- RIPLEY—†Danbery Foundry Co. (Castings & General Machine Work)
 SABINA—*Clinton Mfg. Co. (Pumps)
 *Ideal Pump Co. (Pumps, etc.)
 ST. MARYS—*Buchler Machine Co. (Machinists)
 †Heisler Co. (Air Compressors & Pumping Machinery)
 †St. Mary's Machine Co. (Machinists & Fdrs.)
- SALEM—†BUCKEYE ENGINE CO. (Steam Engines, etc.). (See adv. index, end of book)
 †Clark, W. J. Co.
 †Deming Co. (Steam Pumps & Pumping Mach'y, etc.)
 †Mullins, W. H. Co. (Architectural Bronze Work, etc.)
 *National Sanitary Mfg. Co. (Enameled Sanitary Iron Work)
 †Pittsburg Foundry & Machine Co. (See Pittsburg, Pa.)
 †Silver Mfg. Co. (Hub Boring Mach'y, Blacksmiths' Drills & Agri. Impls., etc.)
 †Victor Stove Co. (Stoves)
 †Woodruff, J. & Sons (Stoves, etc.)
- SALINEVILLE—*Rice, John
 SANDUSKY—†Bay View Foundry Co.
 †Klotz Machine Co. (Engines, Wood-working & Wine & Cider Making Mach'y & Iron & Brass Fdrs.)
 *Mack Iron Works Co. (Architectural & Ohio Motor Co. (Gas Engines)
 †Sandusky Foundry & Machine Co. (Iron Fdrs. & Machinists)
 *Sandusky Tool Co.
 *Threading Machine Co. (Pipe Threading Machines, etc.)
- SCIO—*Lidderdale Machine Shop
 SEVILLE—†Overholt, I. M.
 SHELBY—*Bightman Mfg. Co. (Shafting Machinery & Polished Shafting)
 *Chicago Handle Co. (Bicycle Handle Bars)
 †Shelby Foundry Co. (Grey Iron Castings)
 *Shelby Spring Hinge Co. (Steel, Brass & Bronze Hardware)
- SHREVE—†Shreve Mfg. Co.
 SIDNEY—*American Steel Scraper Co. (Road Scrapers)
 *Eclipse Folding Machine Co. (Folding Machines)
 *Sidney Steel Scraper Co. (Road Scrapers, etc.)
 *Sidney Tool Co. (Wood Working Machinery, etc.)
 *Slusser & McLean Scraper Co. (Road Scrapers)
 †Smith, Philip, Mfg. Co. (Carriage Machinery)
 †Wagner Mfg. Co. (Hollowware, etc.)
- SPENCERVILLE—*Foster, Tobias
 SPRINGFIELD—†American Radiator Co. (See Chicago, Ill.)
 †American Seeding Machinery Co. (Agri. Impls.)
 *Bauroth Bros. (Gas & Gasoline Engines)
 †Bayley, Wm. Co. (Builders, Iron Work, Special Machinery, etc.)
 †Bettendorf Metal Wheel Co. (Seeavenport, Iowa)
 *Casey, D. L. Machine Co. (Engines, Boilers, etc.)
 *Central Brass & Fixture Works (Brass Goods)
 *Colthar, Wm. U. (Special Machinery)
 †Fairbanks Co. (Machine Tools, Piano Plates, Castings, etc.)
 †Foos Gas Engine Co. (Gas Engines)
 †Foos Mfg. Co. (Agri. Implements, Flour Mill Machinery, etc.)
 *Gearless Gas & Gasoline Engine Co. (Gas & Gasoline Engine)
 †Greene Mfg. Co.
 †Hennessy Foundry Co. (Grey Iron Castings)
 †Hoppes Mfg. Co. (Feed Water Heaters, etc.)
 †Igou, D. T.
 *Indianapolis Switch & Frog Co. (Frogs, Switches & Crossings, etc.)
 †International Harvester Co. (Agri. Implements, etc.) (See Chicago)
 †Kelly, O. S. Co. (Traction Engines, Piano Plates, etc.)
 †Kelly Springfield Road Roller Co. (Road Rollers, etc.)
 *Lagonda Mfg. Co. (Roller Fine & Tube Cleaners, Valves, etc.)

- *†Leffel, Jas. & Co. (Turbine Water Wheels & Engines, etc.)
 *Long, W. Z. (Confectioners' Mach'y, etc.)
 *†Mast, Foss & Co. (Buckeye Lawn Mowers, Force Pumps, Wind Engines, etc.)
 *Mentels, The (Gas Heating Stoves for Natural & Artificial Gas, etc.)
 *Miller Improved Gas Engine Co. (Heavy Duty Gas Engines)
 *†Nolte Brass Co. (Brass Fdrs. & Finishers)
 *Owen Machine Tool Co. (Machine Tools)
 *†Patric Furnace Co. (Hot Air Furnaces)
 *Reed Mfg. Co. (Rug Looms, etc.)
 *†Robbins & Myers Co. (Light Iron Castings & Dynamos, Motors, Electric Fans, etc.)
 *Roberts, T. (Feed Mills, etc.)
 *Rodgers, Geo. G. (Machinist)
 *†Ross, E. W. Co. (Sugar Cane Mills & Fodder Cutters, etc.)
 *Safety Emery Wheel Co. (Tools & Emery Grinders, etc.)
 *Shawver Co. (Woodworking Mach'y)
 *Shiers, J. A. Supply Co. (Tools, etc.)
 *†Springfield Brass Co. (Brass Fdrs. & Finishers, Steam Specialties, etc.)
 *Springfield Gas Engine Co. (Gas Engines)
 *†Springfield Machine Tool Co. (Lathes, Presses, etc.)
 *†Superior Gas Engine Co. (Gas & Gasoline Engines)
 *†Thomas Mfg. Co. (Agrl. Impls., Pumps, Lawn Mowers, etc.)
 *Thompson Grinder Co. (Grinding Mach'y, etc.)
 *†Trump Mfg. Co. (Engines, Water Wheels & Transmitting Mach'y)
 *Victor Feed Mills Co. (Feed Mills, etc.)
 *Webster & Perks Tool Co. (Machine Tools, etc.)
 *Western Tool & Mfg. Co. (Tool Holders, Mandrels, etc.)
 †Wickman Piano Plate Co. (Piano Plates & Piano Hdw.)
- STEUBENVILLE—†Irwin Bros.
 *†La Belle Iron Works (Iron & Steel Castings & Machine Shops)
 *†Means Foundry & Machine Co. (Brick Mach'y. & Iron & Brass Castings)
 †Sharp, Wm. L. & Son (Grates, etc.)
- SWANTON—*†Baker, A. D. Co. (Traction Engines & Metal Wheels, etc.)
- TIFFIN—*Brickner Machine Co.
 †Hermeyer Stove Co. (Gas Heaters, etc.)
 *Klopp Bros. (Machinists)
 *†Loomis Machine Co. (Well Boring & Drilling Mach'y.)
 *†National Machinery Co. (Bolt & Nut & Rivet Mach'y., etc.)
 *†Sterling Emery Wheel Mfg. Co. (Emery Wheels & Emery Wheel Mach'y.)
 †Tiffin Malleable Iron & Chain Co.
 *†Tiffin Wagon Co. (Agrl. Impls., Brick Mach'y., etc.)
- TOLEDO—*Acme Mfg. Co. (Special Mach'y., Tools, Dies, etc.)
 *†ADVANCE MACHINERY CO. (Woodworking Machinery. (See adv. index, end of book)
 *American Foundry Co. (Iron Founders)
 *†American Foundry & Furnace Co. (See Bloomington, Ill.)
 *American Metal Wheel & Auto Co.
 *†American Pump & Supply Co. (Iron Pumps, etc.)
 *American Tubular Axle Co.
 *Automatic Machine & Tool Co. (Gas & Gasoline Engines, etc.)
 *†Baker Bros. (Key Seaters, Tapping & Boring Machines & Woodworking Mach'y)
 *Banting Machine Co. (Agrl. Impls., etc.)
 *Bauroth Machine Co.
 *†Braunschweiger Bros. (Special Mach'y., Tools, etc.)
 *Brunning Metal Wheel Works (Truck & Car Wheels, etc.)
 †Calhoun, Wm. (Bronze, Brass & Aluminum Castings, etc.)
 *†Consolidated Pump Co.
 *De Mers, Maglair
 *De Vilbiss Mfg. Co. (Surg'l Instruments)
 *†Donovan Wire & Iron Co. (Grey Iron Castings, Toledo, O.)
 †Ensign Foundry Co. (Iron Founders)
 *Etna Machine Co.
 *†Foster, C. M. & Co. (Iron Fdrs., etc.)
 *Gendron Wheel Co. (Bicycle Wheels)
 *Gogel Mfg. Co. (Tuyere Iron Heaters, Fifth Wheels, etc.)
 *†Haughton Elevator & Machine Co. (Elevators, etc.)
 *†Heartley, Geo. W. (Bicycle & Metal Wheel Mach'y, etc.)
 *†Jones, S. M. Co. (Gas Engines & Oil Well Supplies)
- *Keasey Pulley Co. (Power Transmitting Machinery)
 *Kent Machine Co. (Machinists)
 *Lawrence Mfg. Co. (Cream Separators & Dairy Mach'y)
 *McCreery Engineering Co. (Ventilators & Air Cooling Mach'y, etc.)
 *McLeary, Ed. (Machinist)
 *Meilink Mfg. Co. (Tools, etc.)
 *†Merrell Mfg. Co. (Pipe Cutting & Threading Mach'y, etc.)
 *†Milmine, H. B. & Co. (Iron Fdrs., etc.)
 *Moore, C. H. (Edge Tools, etc.)
 †National Malleable Casting Co. (See Cleveland, O.)
 *†National Supply Co. (Oil Well Supplies, etc.)
 *Ohio Steam Shovel Co. (Steam Shovels, etc.)
 *Oleson Spring Co.
 *Owens Bottle Machine Co. (Bottle Machines)
 *Pope Motor Car Co.
 *Powell, F. & Co.
 *†Rathburn-Jones Engineering Co. (Marine Gas Engines)
 *Reeves Gas Engine & Motor Works
 *†Ricard Boiler & Engine Co. (Castings, etc.)
 *Ross, E. & Co. (Novelty Rug Machines)
 *Ruembell, H., & Son
 *†Rumely, M. Co. (See La Porte, Ind.)
 *Seeger, Valentine (Brass & Comp. Castings)
 *Seiss Mfg. Co. (Iron & Brass Specialties)
 *Shaw-Kendall Engineering Co.
 *†Sutton, C. E. Co. (Punches & Shears Milling Machines, etc.)
 †Toledo Brass & Novelty Works (Brass & Comp. Castings)
 *†Toledo Chandelier Mfg. Co.
 *Toledo Computing Scale Co. (Computing Scales, etc.)
 *†Toledo Foundry & Machine Co. (Steam Shovels, Castings, Engines, Dredging Machinery, etc.)
 *†Toledo Machine & Tool Co. (Punching & Shearing Mach'y., Power Presses, Power & Drop Hammers, etc.)
 *Toledo-Masillon Bridge Co. (Structural Iron Work, etc.)
 *Toledo Metal Wheel Co. (Bicycles, Metal Wheels, etc.)
 *Toledo Pipe Threading Machine Co. (Pipe Threading Machines, Dies, etc.)
 †Toledo Plow Co. (Plows, etc.)
 *Toledo Saw Co. (Saws, etc.)
 *†Toledo Ship Building Co. (Ship Builders, Engines, Brass & Grey Iron Castings)
 †Toledo Stove & Range Co. (Stoves, Ranges, etc.)
 *Union Fire Arms Co.
 †U. S. Malleable Iron Co. (Malleable Iron Castings, etc.)
 *Universal Machine Co. (Gasoline Motors)
 *†Vulcan Steam Shovel Co. (Steam Shovels & Dredges & Iron & Brass Castings)
 †Western Gas Fixture Co. (Gas & Elec. Fixtures, etc.)
 *Yost Electric Mfg. Co. (Lawn Sprinklers, Lamp Sockets, etc.)
- TORONTO—*Long, James A., & Co.
 *†Toronto Machine Co.
- TROMBLEY—*Ohio Oil Co. (Mach. Shops)
- TROY—*†Enterprise Foundry Co.
 *Hobart Electric Mfg. Co. (Electric Coffee Mills & Meat Choppers, etc.)
- TWIGHTWEE—*Cincinnati Screw & Tap Co. (Taps, Screws, Nuts, etc.)
- TYRELL—*Tyrell, A. H. & Son (Iron Fdrs.)
- UPPER SANDUSKY—*†Johnson, J. W., & Co. (Laundry Machinery)
 *†National Steam Pump Co.
 *†Ohio Mfg. Co. (Agrl. Impls., etc.)
- URBANA—*†Crane, M. H. & Co. (Stoves, etc.)
 *Desmond-Stephen Mfg. Co. (Injectors, etc.)
 *†Illinois Car Co. (Cars, etc.)
- UTICA—*Cree, J. A.
- VAN WERT—*Frisbie, F. C.
 †Spayd Bros.
- VERMILION—*Wakefield, F. W., Brass Co. (Lighting Fixtures)
- WADSWORTH—*Ohio Injector Co. (Boiler Injectors, etc.)
 †WALDO—*Long, J. F.
 WAPAKONETA—†Wapak. Hollow Ware Co.
 *Wapakoneta Machine Co.
- WARREN—*†Aetna Fdy. & Machine Co. (Tin & Sheet Mill Mach'y. & Castings)
 *Borden Co. (Hand Pipe Threading Machines, etc.)
 *†Day-Ward Co. (Cast Iron Enameled Sanitary Bath Tubs, etc.)
 *Denison Mfg. Co. (Carpet Stretchers, Curling Irons, etc.)
 *General Fire Extinguisher Co. (Fire Sprinklers) (See Providence, R. I.)
- *Hitchcock Motor Co.
 *Holscher Electric Mfg. Co. (Electrical Specialties)
 *†McMyler Mfg. Co. (Quarry & Contractors' Mach'y., etc.) (See Cleveland, O.)
 *Monarch Electric Mfg. Co. (Electrical Specialties)
 *New York & Ohio Co. (Electrical Goods, etc.)
 Packard Electric Co. (Electrical Specialties)
 *Phoenix Electric Co. (Electrical Specialties)
 *Peerless Electric Co. (Dynamos & Motors & Transformers)
 Sterling Electrical Mfg. Co. (Electrical Specialties)
 *†Trumbull Mfg. Co. (Gasoline Engines & Cylinders & Castings)
 *Warren Electric & Specialty Co. (Motors, etc.)
 *Warren Stove Co. (Steel Ranges, etc.)
- WASHINGTON—C. H.—*†Swope, Geo. B.
 †Wonder Mfg. Co. (Stoves)
- WAUSEON—*†Red King Mfg. Co. (Windmills, etc.)
 *Schletz, Philip
- WELLINGTON—*†Wellington Machine Co. (Brick Mach'y., etc.)
- WELLSTON—*†Morrow Mfg. Co. (Mining Mach'y., etc.)
 *†Peck-Williamson Fdry. Co. (See Cincinnati, Ohio)
 *Wellston Plumbing & Machine Co.
- WELLSVILLE—†Menough Foundry Co. (Grey Iron)
 *†Stevenson Co. Brick Mach'y., etc.)
- WEST ALEXANDRIA—*†Pence-Seward Mfg. Co. (Structural Iron & Machine Works)
- WESTERVILLE—*Bonnet, H. L. & Co. (Stump Pullers)
 †Hance, J. W. Foundry Co. (Grey Iron Castings, etc.)
- WESTPARK—*Cleveland Car Co. (Industrial Cars, etc.)
 *Norton Tool Co. (Tools, etc.)
- WICKLIFFE—*Armington Electric Hoist Co. (Electric Hoists, etc.)
 *Cleveland Brick Machinery Co. (Brick Machinery)
 *Cleveland Crane & Car Co. (Cranes & Hoists)
- WILLOUGHBY—*†American Clay Machinery Co. (See Bucyrus, O.)
- WILMINGTON—*Champion Bridge Co. (Structural Steel Work, etc.)
 †Farquhar Furnace Co.
 †Irwin Auger Bit Co. (Auger Bits, etc.)
- WOODSFIELD—*Loffland Bros.
- WOOSTER—*Wooster Machine Co.
- XENIA—*†Kelly, R. A. Co. (Shaping Machines, Machine Tools, etc.)
- YOUNGSTOWN—*†Falcon Bronze Co. (Brass & Bronze Castings, Tuyeres & Coolers)
 *Finished Steel Co. (Polished Steel Shafting)
 *General Fireproofing Co. (Steel Products)
 *McKay Bros. (Machine & Job Work)
 *Pollock, Wm. B. Co. (Gas Works Mach'y, etc.)
 *Rellance Edge Tool Co. (Edge Tools, etc.)
 *†Republic Iron & Steel Co. (Offices, Pittsburgh, Pa.)
 *†Tod, Wm., Co. (Rolling Mill Engines)
 †Truman, A. L. & Son (Stove Castings)
 *†United Engineering & Foundry Co. (Rolling Mill Mach'y. & Castings). (See Pittsburgh, Pa.)
 *†Wiener, Ernst Co. (R. R. Supplies, Cars, etc.)
 †Youngstown Bronze & Iron Foundry Co. (Brass & Bronze Small & Grey Iron Castings)
 *†YOUNGSTOWN CAR MFG. CO. (Steel & Freight Cars, Car Wheels & Castings)
 *†Youngstown Foundry & Machine Co. (Rolling Mill Mach'y)
 *†Youngstown Furnace & Supply Co. (Stoves, Furnaces, etc.)
 *†Youngstown Iron & Steel Roofing Co. (Stoves & Ranges)
 *†Youngstown Sheet & Tube Co.
 *†Youngstown Steel Co. (Steel Castings)
 *Youngstown Wire & Iron Co. (Fire Escapes, etc.)
- ZANESVILLE—*†Brown Mfg. Co. (Plows, Agrl. Impls., etc.)
 *†Dockary, H. V. Brass & Iron Co.
 *†Griffith & Wedge Co. (Engines, Saw Mill Mach'y., etc.)
 *†Jones, Chas. H. (Stoves)
 *Keystone Wrapping Machine Co. (Wrapping Machines)
 *†Weldg & Co.
 *Zanesville Chemical Engine Co. (Chemical Engines)
 †Zanesville Malleable Co. (Malleable Iron Fdrs.)

OKLAHOMA.

ARDMORE—*Ardmore Automatic Co. (Slat Machines, etc.)
 *†Ardmore Fdry., Machine & Bridge Co.
 BARTLESVILLE—*†Bartlesville Foundry & Machine Works
 BLACKWELL—*Rice Bros.
 CARMEN—*Mott, J. F.
 CHEROKEE—*†Oklahoma School Desk Mfg. Co. (School Desks, etc.)
 CHICKASHA—*Badger Engine & Machine Co
 COAL GATE—†Pounder, H.
 DURANT—*†Durant Machine & Iron Works.
 EL RENO—*El Reno Foundry & Machine Co.
 ENID—*†Enid Fdry. & Machine Shop
 *Young, John A. (Machinist)
 GUTHRIE—*†Southwestern Iron Co.
 JENNINGS—*Jennings Machine Co.
 LAMONT—*Snyder Bros.
 M'ALESTER—*†Union Iron Works
 MUSKOGEE—*Meister, C. M.
 OKLAHOMA—*†Oklahoma City Fdry. & Machine Shop
 *†Sherman, N. S., Machinery Co.
 *Zalondek Machine Co.
 SHAWNEE—*†Wilkinson & Fisher
 TULSA—*†Oklahoma Iron Works
 *Tulsa Machine & Tool Co.
 WOODWARD—*Boyle Bros.

OREGON.

ALBANY—*†Albany Iron Works (Flour Mill, Mining, etc.)
 ASHLAND—*†Ashland Iron Works
 ASTORIA—*†Astoria Iron Works (Inc.) (Engines, Canning Machinery & Iron Castings)
 *†Lovell, J. L.
 *†Pacific Iron Works (Mining & Saw Mill Machinery, etc.)
 BAKER CITY—*†Baker City Iron & Supply Co.
 BANDON—*†Garfield, A.
 CORNELIUS—*†City Foundry & Machinery Co.
 EUGENE—*†Frazer, G. N.
 *†Gross Bros. (Fdrs. & Machinists)
 GRANTS PASS—*†Grants Pass Iron & Steel Works
 HELIX—*†Richardson, D. B.
 MARSHFIELD—*†Nelson, F. E.
 NORTH BEND—*†North Bend Iron Works
 OREGON CITY—*†Roake, J. A.
 OSWEGO—*†Oregon Iron & Steel Co. (See Portland)
 PENDLETON—*†Pendleton Iron Works
 PORTLAND—*American Tool Works (Tools, etc.)
 *Bell, Wildman & Co.
 *Bogges & Curtis
 †Columbia Steel Co. (Hoisting Blocks)
 *Cornfoot, Wm.
 *Gardner & Viggers
 *Harpers Art Brass Works (Brass Composition, Bronze, Machinists, etc.)
 *Harris, H. E. (Ice Machy., etc.)
 *Heacock & Lawrence Iron Works Co.
 *Hicks, Burt (Machinist)
 *Hippely & Myers
 *Hydraulic Elevator Co.
 †Independent Foundry Co.
 *Isensee, Wm. (Machinist)
 *Kelly, J. B. (Machinist)
 †Loewenberg & Going Co. (Stoves)
 †Montag, Jno. (Stoves)
 †National Iron & Foundry Co.
 *Oregon Brass Works (Brass Castings, etc.)
 *†Oregon Iron & Steel Co. (Works, Oswego)
 *†Pacific Iron Works (Builders' Iron Work & Castings)
 *†Phoenix Iron Works
 †Portland Bronze & Crucible Steel Fdry. & Flour. Saw & Paper Mill Mach'y., Engines, etc.)
 *†Portland Ry., Lt. & Power Co.
 *Portland Wire & Iron Works
 *Precemeder & Tureck
 *Smith & Watson Iron Works
 *Trenkman, B. & Co.
 *Tuerck, I. K.
 *†Vulcan Iron Works (Chas. F. Machen, Prop.)
 *Webber Machine Works
 *†Willamette Iron & Steel Works (Power Transmitting Machy., Engines, etc.)
 *Wood, John, Iron Works Co.
 RAINIER—†Rainier Iron Works
 ST. JOHNS—*Murphy, James T.
 SALEM—*†Eardsley & Shell
 †Loewenberg & Going Co. (See Portland)
 *Maurer & Wilson
 †Shand & Marcus
 THE DALLES—*Clough, H.
 *Kirk, J. B.
 WOODBURN—*†McKinney, J.

PENNSYLVANIA.

ADAMSTOWN—*Shirk, A. G.
 ALLEGHENY—*§Adams Bros. Mfg. Co. (Gas Burners, etc.)
 *Ajax Mfg. Co., 848 Jackson av. (See Pittsburgh, Pa.)
 *Albree, Chester B. Iron Wks. Co. (Riveting Machines)
 *†Allegheny Fdry. Co., Boquet & Grant av.
 *†American Locomotive Co. (Locomotives). (See New York City)
 *Carlin Machinery & Supply Co.
 *†CARLIN'S, THOS. SONS CO. (Hoisting Engines & Contractors' & Rolling Mill Machinery). (See adv. index, end of book)
 §Damascus Bronze Co. (Bronze Castings, Bearings, etc.)
 *Danver, R. H. (Machinist), 845 Penna. av.
 *Duff Mfg. Co. (Hydraulic Jacks, etc.)
 *†Eagle Tool & Machine Co. (Special Machy., Tools, Repair Work, Gear & Rack Cutting)
 *†Enterprise Fdry. Co. (Ltd.) (Castings, etc.), Nixon & Manhattan
 *Fox Fishing Tool & Machine Co. (Fishing Tools, etc.)
 *Gillespie Mfg. Co., 206 Isabelia
 *†Hall Steam Pump Co., 215 Grant av.
 *Hardsoeg, Martin, Co. (Miners' Tools)
 *Heathcote, Thos. (Tools, etc.), 829 Penna. av.
 *Hipwell Mfg. Co., 831 North av.
 *Hoerle, W. M. (Dies & Machine Specialties)
 *†McKinney Mfg. Co. (Hinges, Butts, Hdws., etc.)
 †Monongahela Casting Co.
 *†National Gear Wheel & Fdry. Co. (Castings, Gears, Gas Engines, etc.), South av & Walker
 †Penna. Car Wheel Co. (Car Wheels, etc.)
 *†Penna. Casting & Machine Co.
 *Penna. R. R. Co. (Brass Fdry., etc.)
 *†Pittsburg Forge & Iron Co.
 *†Pittsburg Lamp, Brass & Glass Co., Locust & River (See Pittsburgh, Pa.)
 *Pittsburg Machine Tool Co. (Engine Lathes, etc.), 61 Darrah
 *Pressed Steel Car Co. (See Pittsburgh, Pa.)
 *§Republic Mfg. Co.
 *†Riesick, Peter (Bldrs.' Iron Work, etc.)
 *†Rosedale Foundry & Machine Co. (Rolling Mill & Tube Mill Machinery & Castings, etc.)
 *Standard Heater Co. (Heaters, etc.)
 *†§Standard Sanitary Mfg. Co. (Enameled Iron Sanitary Specialties). (See Pittsburgh, Pa.)
 *Stephenson Mfg. Co. (Gas Stoves, Instantaneous Water Heater)
 *†Stove & Range Co. of Pittsburgh (Stoves, Ranges, etc.)
 †Westinghouse Electric & Mfg. Co. (See Pittsburgh)
 ALLENTOWN—*†Allentown Foundry & Machine Works (Beet & Cane Sugar Machinery, Gun Powder Machinery & Castings)
 *Allentown Bobbins Works (Steel Bobbins)
 *†Allentown Rolling Mills (Rolling Mill Machy., High Duty Pumping Engines, etc.)
 Bonney Vise & Tool Works (Inc.). (Vises, Tools, etc.)
 †Daugherty Foundry Co. (Grey Iron Castings, Grate Bars, etc.)
 *Excelsior Knitting Machine Mfg. Co. (Knitting Machy.)
 Grammes, L. F. & Sons (Cigar & Paper Box Works, etc.)
 †Kline Hardware Co. (Hdwe. Specialties)
 *Kutz & Gift (Capsule Moulds, etc.)
 *†Lehigh Portland Cement Co.
 *§Mack Bros. Motor Car Co. (Motor Trucks, etc.)
 *Lindstrom, Jno. T. (Steam Trap & Separators, etc.)
 *†Mosser, W. F. & Son (Iron Fdrs., Cement Mach'y, etc.)
 *Nadig, C. H. Mfg. Co. (Steam Engines, etc.)
 *†Spangler, Chas. (Grey & Brass & Bronze Castings)
 *Taylor, Wm. H., & Co.
 *†Traylor Engineering Co.
 *§Vulcan Brass Works (R. Meisterknecht, Prop.)
 ALTOONA—*†Altoona Foundry & Machine Co. (Grate Bars, Sheave Wheels & Castings)
 *Monarch Machine Works
 *†Penna. R. R. Co. (Shops)
 ALVERTON—†Fox, Jesse W.

AMBRIDGE—*†American Bridge Co. (Office, Ardmore—†Autocar Co. Pittsburgh, Pa.)
 ASHLAND—*†Goyne Steam Pump Co. (Steam Pumps)
 ATHENS—*†American Bridge Co. (Office, Pittsburgh, Pa.)
 *Imperial Pneumatic Tool Co. (Pneumatic Tools)
 AVONDALE—*†Anderson, Thos., & Co.
 AVONMORE—†Keystone Steel Foundry Co. (Steel & Grey Iron Castings)
 BANGOR—*†Flory, S. Mfg. Co. (Iron Fdrs., Hoisting Engines, Stone & Slate Working Mach'y., etc.)
 BAUSMAN—*Bausman, D. H. (Machinist, etc.)
 BEAVER FALLS—*Emerson, Smith & Co. (Saws & Specialties)
 †Howard Stove Co. (Stoves & Ranges)
 *†Keystone Driller Co. (Portable Well Drilling Machy. & Brass, Steel & Grey Iron Castings)
 *†Knott, Harker & Co. (Fire Place Furnishings, Castings, etc.)
 *†Penn Bridge Co. (Steel Bridges & Foundry & Machine Work)
 *Standard Connecting Rod Co. (Connecting Rods, etc.)
 *Standard Gauge Steel Co. (Finished Machine Keys, Compressed Steel Elevator Guards, etc.)
 *†Standard Scale & Supply Co. (See Pittsburgh, Pa.)
 BEDFORD—†Cromwell, W. F.
 BELLEFONTE—*†Lingle, J. H., Co. (Helve Hammers, etc.)
 BELLVILLE—*†Hertzler & Zook
 BELLWOOD—*†Bellwood Mfg. Co. (Car & R. R. Castings)
 BENNETT—†Jorden, R. H. (Steel & Cast Iron Piston Rings)
 *Lippert, E. T., Saw Mfg. Co. (Saws, etc., Machinery)
 BENROY—*†Strickler, B. F., & Sons (Tobacco Scrap Machinery)
 BERWICK—*†American Car & Foundry Co. (See St. Louis, Mo.)
 †Fenstermacher, Henry
 BETHLEHEM—*†Guerber Engineering Co. (Railroad Switches, etc.)
 †Reese, Lewis O. (Iron Fdry.)
 *Roller-Smith Co. (Electrical Instruments, etc.)
 BIRDSBORO—*†Birdsboro Steel Foundry & Machine Co. (Core Drills, Rolling Mill Machinery & Iron & Steel Castings, etc.)
 BLAIRSVILLE—*Blairsville Machine Works
 *†Tittle, C. L.
 BLOOMSBURG—*†American Car & Foundry Co. (See St. Louis, Mo.)
 *†American School Furniture Co.
 *Brower, E. B. Co. (Gas Engines, etc.)
 *Geese, Jeremiah & Co. (Machinists)
 *Harman & Hassert
 *†Richard Mfg. Co. (Rod, Tube & Wire Mill Machinery & Grey Iron Castings)
 BLOSSBURG—†Moore, Thos. J.
 BLUE BALL—*Shirk, P. E. (Wrapper Cutting Machines, etc.)
 BOLIVER—*†Boliver Foundry & Machine Co.
 BOYERTOWN—Megerly, Chas. O.
 *Schlegel, Daniel (Agrl. Impls.)
 *†Union Mfg. Co. (Sad-Irons, etc.)
 BRACKENRIDGE—*†Allegheny Steel Co. (Machine Shop & Foundry for Own Use). Office, Pittsburgh, Pa.
 BRADDOCK—*Automatic Bottling Machine Co. (Bottling Machines, etc.)
 *†Braddock Machine & Mfg. Co. (Rolling Mill Machinery)
 *†Carnegie Steel Co. (See Pittsburgh)
 *†McVay & Walker (Sanitary Enameled Cast Iron Goods, Bath Tubs, etc.)
 *†Sterling Steel Foundry Co. (Steel Castings, Car Couplers, etc.)
 BRADFORD—*†Air Pump & Meter Co.
 *†Blaisdell Machinery Co. (Gas Engines, Air Compressors, etc.)
 *†Boviard & Co. (Engines, etc.)
 *†Bovard & Seylang Mfg. Co. (Engines, Boilers, Pumps, Oil & Gas Well Supplies, Well Drilling Machinery, etc.)
 *†Caldwell, E. R. & Co. (Iron & Brass Fdrs., Steam Engines, Pumps & Oil Well Supplies)
 *†Custer Coupling Co. (Couplings, Clamps, etc.)
 *†Dresser, S. R. Mfg. Co. (Pipe Couplings, Packers' Clamps, Sleeves & Filings, etc.)
 *Fleming, Geo. W., Co.
 *Flickering Iron Works (Gas Engines)
 *Leader Specialty Mfg. Co. (Gas Regulators, etc.)
 *Hamilton, F. (Oil Well Tools, etc.)
 *Ley, Jno. (Oil Well Tools, etc.)

*Lytle, M. & Son (Machinists)
 *McElwaine Co. (Gas Engines, etc.)
 *Phillips, David Co. (Oil Well Tools, etc.)
 *Standard Saw Co. (Saws, etc.)
 *Williamson Vise Co. (Vises, etc.)
 BRAEBURN—*Braeburn Steel Co. (Small Machine Shop for Own Use)
 BRIDGEPORT—*Gehret Bros.
 *†Lorenna Foundry Co.
 *†Wilkinson Mfg. Co. (Automatic Stokers, etc.)
 BRISTOL—*Ardrey, S. B. & Sons (Textile Mach'y., etc.)
 †Harkins, T. B., Foundry Co. (Stoves, Furnaces, etc.)
 *†Standard Cast Iron Pipe & Foundry Co. (Cast Iron Pipe, etc.)
 BROOKVILLE—*†Jenks, W. H. (Machinist)
 BROWNSVILLE—*†Herbertson's, John, Sons (Mine Cars, etc.)
 BRUNNERSVILLE—*†Bentz, Frank B.
 BURNHAM—*†Standard Steel Works (Steel Castings, etc.) (See Phila., Pa.)
 BUTLER—*†Butler Car Wheel Co. (Car Wheels, etc.)
 *†Butler Engine & Foundry Co. (Engines, etc.)
 †Campbell, J. G. & W. (Oil Well Supplies)
 *Etna Mfg. Co. (Oil Well Supplies, etc.)
 *†Evans Mfg. Co. (Engines & Gas Well Supplies)
 *Heeter, C. M. Sons & Co. (Drilling & Fishing Tools, etc.)
 *Kesselman & Co. (Oil Well Supplies)
 *Larkin & Co. (Machinists)
 *Masseth Packer & Machine Works (Oil & Gas Well Pumps, etc.)
 *†Palm Gas Engines Co. (Gas Engines, etc.)
 *Phillips, T. W. Mfg. Co. (Oil Well Supplies)
 *†Pittsburg-Hickson Co. (Brass & Iron Beds)
 *Sherman, J. B. (Machinist)
 *Spang & Co. (Machinists & Oil Well Supplies)
 *†Standard Steel Car Co. (Steel Cars & Trucks, etc.) (See Pittsburg, Pa.)
 CALIFORNIA—*†California Fdry. & Machine Co. (Stoves, etc.)
 CANONSBURG—*Alexander Mfg. Co. (Machinery)
 †Canonsburg Steel & Iron Works
 *†Fort Pitt Bridge Works (See Pittsburg, Penna.)
 CARBONDALE—*†Carbondale Machine Co. (Ice & Refrigerating Machinery)
 *†Cross Engineering Co. (Coal & Ore Machinery, etc.)
 †Sterling Metal Co. (Brass Castings, etc.)
 *†Van Bergen & Co.
 CARLISLE—*†Gardner, E. J., Axle & Machine Co. (Axles & Machine Work)
 *†Frog Switch & Mfg. Co. (Frogs, Switches, etc.)
 CARNEGIE—*†Adler, H. Co. (Gas Stoves, etc.)
 *Alexander Bros. (Stove Pipe Mach'y.)
 *†Dixon, H. L., Co. (Glassmakers' & Potters' Supplies)
 CATASAUQUA—*†Catasauqua Casting Co.
 *†Davies, Thomas, & Co.
 †Hercules Metal Works (Brass, Bronze & Copper Castings, etc.)
 *†Lehigh Car Wheel & Axle Works (Cars, Wheels & Axles, etc.)
 *Lenox Mfg. Co. (Sewing Machine Attachments)
 CATAWISSA—*†Catawissa Car & Casting Co. (Cars, Car Wheels, Castings & Forgings)
 CENTER HALL—*†Luse Mfg. Co. (Hydrants, etc.)
 CHAMBERSBURG—*†Chambersburg Engineering Co. (Steam Hammers, Cranes, etc.)
 *†Haeffer, E. C.
 *Hug, A. C. (Machinist)
 *Schaal, Jno. D., & Co.
 *Tunis, Robt. W. Mfg. Co. (Printing Presses, etc.)
 *†Wolf Co. (Flour Mill ½ Power Transmitting Machinery)
 *†Wood's, T. B., Sons Co. (Power Transmission)
 CHARLEROI—*†Charleroi Foundry & Machine Co.
 CHERRY TREE—*†Cherry Tree Iron Works
 CHESTER—*†American Steel Foundries Co. (Open Hearth Steel) (See Chicago, Ill.)
 *Baldt Anchor Co. (Anchors, etc.)
 *Berry Engineering Co. (Steam Specialties)
 *Blrtwell, Henry B. (Mach'y., etc.)
 *Black, John B. (Edge Tools, etc.)
 †Boulden, Wm. M. & Sons

*Chester Engineering & Machine Co. (Gasoline Engines, Crankshafts, Special Machinery, etc.)
 *Chester Forging & Engineering Co.
 †Chester Steel Castings Co. (Open Hearth Steel Castings)
 *Cheyney, Jno. H. & Co. (Machinists)
 †Crown Smelting Co. (Brass Fdrs. & Machinery Castings, etc.)
 †Economy Iron Works
 †Federal Steel Foundry Co. (Open Hearth Steel Castings)
 *Jacobson Engine Co. (Gas Engines, etc.)
 †Keystone Steel Casting Co. (Crucible Steel Castings & Gear Blanks)
 *Niagara Hydraulic Engine Co. (Hydraulic Engines, etc.)
 *†Penn Steel Castings & Machine Co. (Castings Acid Open Hearth Steel of All Descriptions)
 *†Seaboard Steel Casting Co. (Founders, Steel)
 †Solid Steel Casting Co. (Steel Founders)
 *WETHERILL BROS. MACHINE Co. (Engines, Pumps, Dredging & Soap Machinery. (See adv. index, end of book))
 *†Wetherill, Robt. & Co. (Corliss Engines, Paper & Pulp Mill Mach'y., etc.)
 CHESTNUT LEVEL—*Brown, J. Edgar
 CHICORA—*Bowers, Warren
 *Chicora Machine Works
 CHRISTIANA—*†Christiana Machine Co. (Mill Mach'y.)
 CLEARFIELD—*†Byers, A. M., Co. (See Pittsburg, Pa.)
 *†Clearfield Machine Shops (Ltd.) (Fire Brick Mach'y.)
 *Gearheart, Joseph E. & Son (Knitting Machines)
 CLEONA—*Imboden Harrow & Roller Co. (Agrl. Implements)
 COATESVILLE—*†Coatesville Foundry & Machine Co. (Grey Iron Castings, etc.)
 *†Lukens Iron & Steel Co. (Steel Castings, all Consumed by the Company; also Machine Shops for Repairs)
 *†Ridgway, Craig & Son Co. (Cranes & Hoists, etc.)
 *Taite Railway Signal Co.
 *Worth Bros. Co. (Well Equipped Machine Shop)
 CODORUS—*†Auchey, Abraham (Iron Fdry., etc.)
 COLUMBIA—*†Columbia Grey Iron Co. (Light Grey Iron Castings & Builders' Hdwe.)
 *†Columbia Mfg. Co. (Laundry Mach'y.)
 †Keeley Stove Co. (Stoves, Ranges & Furnaces)
 *Smith, E. G. Co. (Concave & Convex Gauges, etc.)
 CONNEAUTVILLE—*†Mouthrop Bros.
 CONNELLSVILLE—*†Boyt's, Porter & Co. (Steam Pumps, etc.)
 *†Connellsville Machine & Car Co. (Pumps, Engines, Mine Fans & Iron & Brass Castings, etc.)
 *Connellsville Machine & Car Supply Co.
 *†Connellsville Mfg. & Mine Supply Co. (Coal & Coke Works Equipment)
 †Mnson Heater Co. (Heaters, etc.)
 *Pittsburg Safe Co. (Safes, etc.)
 CONSHOCKEN—*†Bate, Wm. T. & Son
 *Lee, J. Ellwood Co. (Surgical Dressing Machinery to be used in their own Factory)
 *†Messinger's, H. C. Sons (Stoves, etc.)
 *†Wood, Jno. Mfg. Co. (Boilers, Tanks & Iron Fdrs.)
 CONYNGHAM—*†Getting, J. D. (Iron Fdrs.)
 CORAOPOLIS—*†Duquesne Steel Foundry Co. (See Pittsburg, Pa.)
 *Shamburg & Allen Machine Co.
 CORRY—*†Ajax Iron Works (Gas Engines, etc.)
 *†Climax Mfg. Co. (Logging Locomotives & Cars, etc.)
 *†Love Mfg. Co.
 *Trill, W. L. (Engineers' Instruments)
 *†U. S. Radiator & Boiler Co. (Boilers, Radiators, etc.) (See W. Newton, Pa.)
 COUDERSPORT—*†Currier-Kolth Mfg. Co. (Tools, etc.)
 COWANESQUE—*†Riepple, Jno. (Tools, etc.)
 CRAFTON—*Fisher, J. J. & Co. (Tools, etc.)
 CREIGHTON—*†Yost Bros.
 CRESSON—*†Cresson Fdry. Mach. & Car Co. (Mine Cars, Wheels & Railroad & Mine Castings, etc.) (See Ebensburg, Pa.)
 CURWENSVILLE—*Robinson, T. J.
 DALTON—*†Dalton Supply Co.
 DANVILLE—Brown, Will G. (Machinist)
 *†Danville Foundry & Machine Co. (Rolling Mill Mach'y., Engines, Grey Iron & Brass Castings, etc.)
 †Danville Stove & Mfg. Co. (Stoves & Furnaces)

DAWSON—*†Dawson Foundry & Machine Co.
 DELTA—*†Robert, Richard, & Son
 *Sidwell, C. W.
 DICKSON CITY—*†Early Foundry Co.
 DRIFTON—*†Lehigh Valley Coal Co.
 DUBOIS—*†DuBois Iron Works (Mining, Tannery & Saw Mill Machinery, Grey Iron Castings, etc.)
 *†Osborne Machine Co.
 DUNBAR—*†Dunbar Furnace Co. (Office Phila., Pa.)
 DUNMORE—*†Erie R. R. Shops
 EAST BANGOR—*†East Bangor Mfg. Co. (Castings & Specialties)
 EAST BROOK—*Hinkson Bros. (Machinists)
 EAST DOWNINGTON—*†Downington Mfg. Co. (Paper & Pulp Mill Mach'y., etc.)
 EAST GREENVILLE—*†Haas, Harvey B.
 EASTON—*†Easton Brass & Machine Works
 *†Easton Foundry & Machine Co. (Iron & Steel Construction, Special Machinery & Structural Machinery, Castings, etc.)
 *Hobson & Co. (Agrl. Implants. & Mach'y.)
 *†INGERSOLL-RAND CO. (See New York City.)
 *†Wilson Bros. (Bone Grinding Mach'y., etc.)
 †Wilson, Jacob (Est. of)
 *†Wilson Bros. (Bone Grinding Mills, Boilers, etc.)
 †Wilson Stove & Mfg. Co. (Stoves, etc.)
 EAST PITTSBURG—*†Pittsburg Meter Co. (Gas Meters, etc.)
 *†WESTINGHOUSE ELECTRIC & Mfg. Co. (See adv. index, end of book)
 *†Westinghouse Machine Co.
 EAST STROUDSBURG—*Gilbert, I. B.
 *†Stauffer, Geo. E. (Engines & Flour Mill Machinery, etc.)
 EAST WATERFORD—*East Waterford Machine & Supply Co.
 EBENSBURG—*†Cresson Fdry. Machine & Car Co. (Mine Cars, Wheels & Railroad Mine Castings, etc.)
 *†Ebensburg Foundry & Machine Co. (Brown & Son, Props.)
 ECKERT—*Sittler, Peter
 EDDYSTONE—*†Belmont Iron Works. (See Phila., Pa.)
 *†Eddystone Steel Works (See Burnham, Williams & Co., Philadelphia, Pa.)
 *†High Duty Saw & Tool Co. (Cold Saws, etc.)
 Simpson, Wm., & Sons (See Philadelphia, Pa.)
 *†Tindel-Morris Co. (Machine Tools, etc.)
 ELIZABETHTOWN—*†Buch's A. Sons Co. (Lawn & Road Rollers, Fanning Mills, etc.)
 ELIZABETHVILLE—*†Swab Foundry Co. (Castings, etc.)
 ELKLAND—*†Bedell, Andrew S.
 ELKLICK—*Haselbarth, C. R. & Son (Hardware, etc.)
 *Improved Traction Engine Co. (Traction Engines, etc.)
 ELLWOOD CITY—*†Ellwood Foundry Co.
 *†Standard Engineering Co. (Rolling Mill, Sugar Mill Machinery & Grey Iron Castings)
 *†Steel Car Forge Co. (See Pittsburg, Pa.)
 ELYSBURG—*†Deshay, D. H. (Farm Implements & Castings of All Kinds)
 EMAUS—*†Donaldson Iron Co. (Cast Iron Pipe)
 EMLENTON—*Sheffer, G. M.
 EMPORIUM—*†Emporium Machine Co.
 EPHRATA—*†Ephrata Foundry & Machine Works
 ERIE—*†Ball Engine Co. (Steam Engines, Machinery, Castings, etc.)
 *Bay State Iron Works (Portable Engines, etc.)
 *Brown Folding Machine Co. (Paper Folding Machines)
 *Burke Electric Co. (Electric Motors, etc.)
 *Bury Compressor Co. (Air Compressors, Vacuum Pumps, etc.)
 *†Campbell, J. B. Brass Works (Brass Fdry. & Finisher & Plumbing Goods)
 †Cascade Foundry Co. (Grey Iron Castings)
 *Chapman, C. L. Cream Separator Works
 *†Erie Car Works (Cars) (Dairy Mach'y.)
 *†Erie City Iron Works (Steam Engines, etc.)
 *Erie Clutch & Pulley Co. (Pulleys, Hangers, etc.)
 *†Erie Engine Works (Steam Engines, etc.)
 *†Erie Foundry Co. (Steam Hammers, etc.)
 *Erie Machine Shops (P. W. Dietley, Prop.)
 *†Erie Malleable Iron Co. (Malleable & Grey Iron Castings)
 *Erie Mfg. & Supply Co. (Steam Engines, Heaters, etc.)
 *Erie Pump & Engine Co. (Engines & Pumping Machinery)

*Erle Specialty Co. (Hdw. Specialties, etc.)
 *Erle Stamping & Mfg. Co. (Oil & Grease Cups, Brass Castings, etc.)
 *Erle Tool Works (Common Tools, etc.)
 *Erle White Metal Co. (Babbitt Metal, etc.)
 †Erlez Stove & Mfg. Co. (Stoves, etc.)
 †German Bronze Co.
 †Germer Stove Co. (Stoves, etc.)
 †Globe Iron Works
 *Griffin Mfg. Co. (Builders' Hdw., etc.)
 †Griswold Mfg. Co. (Fine Light Castings, Gas Stoves, etc.)
 *Harrington, John P. (Crank Shafts)
 *Hays Mfg. Co. (Iron & Brass Goods for Gas & Water)
 *Helsler Locomotive Works (Geared Locomotives, etc.)
 *Hollands Mfg. Co. (Vises, Pipe Wrenches & Plumbers' Tools)
 *Hydraulic Iron Works
 †Jarecki Mfg. Co. (Iron & Brass Fdres., Malleable & Grey Iron Steam Fittings & Oil & Gas Well Supplies, etc.)
 †Keystone Brass Co. (Brass Fdres. & Finishers)
 *Lake City Engineering Co. (Pumping Machy, Marine Engines, etc.)
 *Lake City Machine Shop (Herman Ey, †Lakeside Foundry Co. Prop.)
 *Link, E. M. Machinery Co. (Saw Mill Machinery, etc.)
 *Lovell Mfg. Co. (Clothes Wringers, etc.)
 *Mayo Life Boat Co. (Life Boats, etc.)
 *Metric Metal Works (Gas Meters)
 *Modern Tool Co. (Dies, Tools, etc.)
 †Morse Iron Works (Pipe Fittings, Grey & Malleable Iron Castings, etc.)
 †Nagle Engine & Boiler Works (Steam Engines, etc.)
 †National Foundry Co. (Grey Iron & Steel Castings)
 †Noyes Brass Works (Brass Fdres.)
 †Odin Stove Mfg. Co. (Gas Stoves, etc.)
 †Patterson & Sterling (Hot Air Furnaces)
 †Penna. Boiler Works
 †Reed Mfg. Co. (Pipe Wrenches, etc.)
 *Reifel Pump Works (Pumps, etc.)
 *Slins Co. (Steam Specialties)
 †Skinner Engine Co. (Steam Engines, etc.)
 †South Erie Iron Works (Stoves & Ranges)
 *Standard Saw Mill Machinery Co. (Saw Mill Machinery, etc.)
 *Steiner, Martin (Tools, Emery Grinders, etc.)
 †Union Iron Works (Boilers, etc.)
 †Walker Foundry Co. (Grey Iron Castings)
 *Watson, N. A. (Boiler Injectors, etc.)
 *Williams Tool Co. (Pipe Threading & Bolt Cutting Machines, etc.)
 ETNA—†Roessing Brouze Co. (Brass & Bronze Fdres., etc.)
 *Spang, Chalfant & Co. (Works Contains Two Machine Shops). (Office, Pittsburgh, Pa.)
 EVERETT—†Pettigrew, Wm.
 FORD CITY—*†Fischer Foundry & Machine Co. (Rolling Mill & Special Machinery, Castings, etc.)
 †Pittsburg Plate Glass Co. (See Pittsburg, Pa.)
 FRANKLIN—†American Steel Foundries (Steel Castings)
 †Chicago Pneumatic Tool Co. (See Chicago, Ill.)
 †Colburn Machine Tool Co. (Boring & Turning Mills, Saw Arbors, etc.)
 *Dale Engine & Supply Co. (Gas Engines)
 †Emery, W. N. & Son (Iron Fdres. & Machinists)
 *Franklin Motor Co. (Gas Engines)
 *Franklin Portable Crane & Hoist Co. (Portable Cranes & Hoists)
 *Franklin Railway Supply Co. (Conduits, Lubricators & Railroad Supplies)
 *Hough, Chas. N. Mfg. Co. (Brass Fdres. & Finishers, etc.)
 †Producers' Supply Co. (Oil Well Supplies)
 *Lane, D. T., & Sons
 *Sheridan, Jas. & Sons
 †Venango Mfg. Co. (Railway Specialties)
 *Vogan, J. P. (Sucker Rods, etc.)
 FREEBURG—Harmon & Moyer
 FREEMANSBURG—*†Hardware & Woodenware Co. (Iron Toys & Iron & Brass Castings, etc.) (See New York)
 †Shlmer, Wm. Son & Co. (Iron Fdres. & Hardware Specialties)
 FULLERTON—†Dent Hardware Co. (Refrigerator Trimmings, etc.)
 †Lehigh Car Wheel & Axle Works
 †Lehigh Foundry Co. (Light & Heavy Grey Iron Castings, Rubbing Beds, etc.)
 GIBALTAR—†Gibraltar Iron Works.

GIRARD—*Ely, Theo. J., Mfg. Co. (Hardware Specialties)
 *Girard Wrench Mfg. Co.
 †Lake Erie Foundry Co.
 GLASSPORT—*American Axe & Tool Co.
 †Pittsburg Steel Foundry (See Pittsburg, Pa.)
 GLEN ROCK—*†Norris, Burnham & Co. (Machinists & Fdres.)
 GRANT—†Cherry Tree Iron Works (Inc.)
 GREENCASTLE—*†Geiser Mfg. Co. (See Waynesboro)
 *Walk, Henry S. (Agr. Impls.)
 GREENMOUNT—*Null, Geo. W.
 GREEN PARK—†Rheems & Bro. (Iron Fdres.)
 GREENSBORO—†Pennington, T. F.
 GREENSBURG—†Brown-Ketchum Iron Works (See Indianapolis, Ind.)
 †Hempfield Foundry (Mine Cars, Wheels, etc.)
 *Henry & Sheffer Machine Co.
 *Hodge Mfg. Co. (See Pittsburg, Pa.)
 GREENVILLE—*†Hodge Mfg. Co. (Iron Fdres. & Machinists)
 GROVE CITY—†Bessemer Foundry Co. (Grey Iron Castings)
 †Bessemer Gas Engine Co. (Gas Engines)
 *Carrouthers-Fithian Clutch Co. (Clutches, Imperial Co.)
 GROVER—*Elmira Machine Works
 GROVETON—*†Lewis Foundry & Machine Co. (See Pittsburg)
 HAMBURG—†Confer, Smith & Co.
 Hamburg Mfg. Co. (Chain Hoists, etc.)
 †Kelser, Francis (Radiators, etc.)
 †Loose, Saml. A. & Son (Plows, etc.)
 *Neiman, & Saul
 *Snell & Meharg (Machinists)
 HANOVER—*Bingly, John J.
 †Fitz Water Wheel Co. (Water Wheels)
 *Flickinger Bros.
 †Flickinger, John D.
 *Hanover Plow Handle Co.
 †Heindel Foundry Co.
 †Heindel Mfg. Co. (Special Machinery & Grey Iron Castings)
 HARMONY—*†Flowers, A. U.
 HARRISBURG—*Bailey, Chas. L. & Co. (Inc.) (Machine Shop for Company's Own Use)
 †Boll Bros. Mfg. Co. (Iron & Brass Bedsteads)
 †Central Iron & Steel Co.
 †Cooper, E. N., & Co.
 *Ellmott-Fisher Co. (Book Typewriters & Billing Machines)
 †Harrisburg Foundry & Mach. Works (Steam Engines, etc.)
 †Harrisburg Mfg. & Boiler Co.
 *Harrisburg Pipe & Pipe Bending Co. (Pipe & Coll)
 *Harrisburg Roll Grinding & Corrugating Co.
 *Harrisburg Rolling Mill Co. (Machine Shop for Repairs, etc.)
 †Hickok, W. O. Mfg. Co. (Bookbinders' Machy, Iron & Brass Fdres., Sash Weights, etc.)
 †Lalanc & Grosjean Mfg. Co. (See New York City)
 *McKills, Alexander
 HAZLETON—*Anthracite Separator Co.
 *Harleigh Iron Works
 †Hazleton Iron Works Co. (Fdres. & Machinists)
 †Jeansville Iron Works Co. (Steam Pumps, etc.)
 *Schmauch, Henry (Machinist)
 HOKENDAUQUA—†Thomas Iron Co.
 HOLLIDAYSBURG—*†McLanahan Stone Machine Co. (Iron Fdres. & Stone Working Machinery, etc.)
 HOMER CITY—*Nix Machine Works (Machinists, etc.)
 HOMESTEAD—*†Carnegie Steel Co. (Fdry. Dept.) (See Pittsburg)
 *Homestead Iron Works
 †Homestead Valve Mfg. Co. (Valves & Steam Goods, Iron & Brass Fdres.)
 *Lawson Mfg. Co. (Gas Burners & Water Heaters)
 †Mesta Machine Co. (Rolling Mill Machinery & Castings, etc.) (See Pittsburg)
 †National Car Wheel Co. (See Allegheny)
 HONESTDALE—*Gibbs, Chas. E.
 †National Elevator & Machine Co. (Elevators, etc.)
 HOOVERSVILLE—*Crissey, Elias
 HOPEWELL—*†Simon Bros.
 HUGHESVILLE—*†Snowden Bros.
 HUNTINGDON—*†Gerloch, H. W.
 HYDE PARK—*†Hyde Park Fdry. & Mach. Co. (Rolling Mill Machy & Castings)
 IDLEWOOD—*†Snodgrass Mfg. Co. (Gas Stoves, etc.)
 INDIANA—*†Clymer Mfg. Co. (Tuyere Irons, etc.)
 †Indiana Foundry Co. (Feed Cutters, etc.)

IRWIN—*†Irwin Foundry & Mine Car Co.
 *Penn Electrical & Mfg. Co.
 IVYLAND—*Hobensack Bros.
 JEANNETTE—*†Clifford-Cappell Fan Co.
 *Jeannette Machine Co.
 †Pittsburg Lamp, Brass & Glass Co. (See Pittsburg, Pa.)
 JERSEY SHORE—*†American Balance Valve Co.
 †Trump, F. & E. (Iron Fdres. Machinists)
 JOHNSONBURG—*†Johnsonburg Machine Co.
 JOHNSTOWN—*†Cambria Steel Co. (Founders, Machinists & Steel Mfrs.) (See Phila., Pa.)
 †Century Stove & Mfg. Co. (Stoves, etc.)
 †Flood City Mfg. Co. (Brass Castings, etc.)
 †Globe Iron & Fdry. Co.
 †Lorain Steel Co. (See Phila., Pa.)
 †National Radiator Co. (Radiators, etc.)
 *Smith, W. E. (Machinist)
 †Suppes Forge & Foundry Co. (Iron & Brass Castings, Mining Machinery & Mine Cars)
 †Union Radiator Co. (Radiators, etc.)
 KANE—*Kane Supply Co. (Machinists)
 *United Mfg. Co. (Saws & Saw Teeth)
 KENNETT SQUARE—*†American Road Machine Co. (Road Making Machy, etc.)
 *Good Roads Machinery Co. (Road Making Machy.)
 †Kennett Foundry & Machine Co.
 KIMBERTON—*†Snyder, Wm. R.
 KINGSTON—*†Kingston Mfg. Co. (A. J. Roat, Prop.)
 KITTANNING—*†Hoey & Gallagher Fdry. & Machine Co., Ltd.
 †Kittanning Iron & Steel Mfg. Co.
 *Kittanning Plate Glass Co. (Fdry. Dept.)
 †McCulloch, Jas., Jr. (Iron Fdry, etc.)
 †Pittsburg Writing Machine Co. (Typewriters, etc.)
 KNOX—*Corlett & Co. (Machinists)
 KUTZTOWN—*†KUTZTOWN FDRY. & Machine Co. (See Philadelphia, Pa.) (See adv. index, end of book)
 LACEYVILLE—Edwards Mfg. Co. (Log Turners, etc.)
 *Vandervoort, John
 LANCASTER—*Anderson, Thos. A.
 †Barry & Zecher Co.
 †Blickenderfer, Richard (Turbine Water Wheels & Grey Iron Castings)
 *Bowman's, Ezra F. Sons (Watchmakers' Tools, etc.)
 *Calder, Geo. H. (Emery Wheel Dressers)
 †Carbon Steel Casting Co.
 †Central Machine Works (Engines, etc.)
 †Champlon Blower & Forge Co. (Iron Fdres., Blowers, Portable Forges, etc.)
 *Dellinger, A. M. (Machines)
 *Fidelity Electric Co. (Electric Motors & Fans)
 †Fralm, Edw. T. Lock Co. (Locks, Castings, etc.)
 *Hamilton Watch Co. (Watches, etc.)
 †Hubley Mfg. Co. (Light Grey Iron Castings, Brass Pattern Work, etc.)
 †Independent Foundry Co. (Cast Iron Soil Pipe)
 *Koch, Alfred S. (Jewelers' Tools, etc.)
 *Kreider Machine Co. (Machinists)
 †Lancaster Machine & Structural Works
 *Lancaster Peerless Emery Wheel Co. (Emery Wheels & Grinders, etc.)
 †Martin, Henry Brick Machine Mfg. Co. (Brick Machy, etc.)
 †Martin, Wm. R. (Cement Machy, etc.)
 *National Safety Fifth Wheel Co. (Fifth Wheels, etc.)
 *Nolty & Co. (Locomotive Sanders)
 *Potts, D. H. (Portable Forges, etc.)
 *Rote, A. B. & Co. (Bldrs' Iron Work, etc.)
 *Royal Mfg. Co. (Hand Power Machinery, etc.)
 †Safe Padlock & Hardware Co. (Shelf Hdw. & Brass Castings)
 *Slaymaker, S. R. (Car, Ship & Builders' Hardware, etc.)
 *Stehman & Swan Mfg. Co. (Watchmakers' Tools, etc.)
 *Vondersmith, Henry M.
 *Welchhaus, Albert C. (Elevators, etc.)
 LANDISVILLE—*Minnich Machine Works (Ball Presses, etc.)
 †Monitor Steam Generator Mfg. Co. (Heating Apparatus & Castings)
 LANESBORO—*†Barnes Mfg. Co. (Machinists, etc.)
 LANSDALE—*†Central Radiator Co. (See New York City)
 †Cox, Abram Stove Co. (Stoves, etc.) (See Philadelphia, Pa.)

†§Heebner & Sons (Agrl. Impls., Grey Iron & Brass Castings)
 *†Krupp Foundry Co.
 †Specialty Mfg. Co. (Door Knobs, etc.)
 LANSDOWNE—†Crucible Steel Casting Co.
 *Foulds Machine Co. (Steel Castings)
 LATROBE — *†Gilligan, Jno. (Iron Fdry. & Machinist)
 LATTIMER MINES—*†§Lattimer Fdry. & Machine Co.
 LEBANON—*†§American Iron & Steel Mfg. Co. (Grey Iron & Brass Castings & Machine Shops)
 *Buchanan Fdy. Co. (Iron Fdrs.)
 *†Frick, Horace E., Co. (See New York City)
 *Fry, Edward G.
 *†Lebanon Chain Works (Chains)
 †Lebanon Stove Co. (Stoves)
 *†Lebanon Steel Casting Co. (Crucible Steel Castings)
 *Louden Machine Works
 *†North Lebanon Foundry Co.
 *Novelty Machine & Repair Shop.
 *Parthemore, J.
 †Ream Foundry
 *†Treadwell, M. H. & Co.
 *Union Boiler & Mfg. Co.
 †§Washington St. Brass & Iron Fdry Co.
 *†§Weimer Machine Works Co. (Rolling Mill & Blast Furnace Machinery, etc.)
 *Yeagley, Franklin C.
 LEETSDALE—*Tate, Jones & Co.
 LEIGHTON—†Carbon Iron Works.
 †Crescent Stove & Mfg. Co. (Stoves, etc.)
 †Lehigh Stove & Mfg. Co. (Stoves, etc.)
 LEMOYNE—*Lemoyne Bicycle & Machine Co.
 LEOLA—*Leola Machine Co.
 LEONA—Ely, E. C. Co. (Hdwe. Specialties, etc.)
 LERAYSVILLE—†Bailey, E. Martin (Iron Fdry. & Plows, etc.)
 LEWISBURG—†New Central Foundry Co.
 LEWISTOWN—*†§Lewistown Fdry. & Machine Co.
 *Mann, Jas. H. (Est. of) (Tools, Axes, etc.)
 *Mann Edge Tool Co. (Edge Tools, Axes, etc.)
 *†Mount Rock Foundry & Machine Co.
 LIMESTONEVILLE—*Gibson, H. W.
 LINESVILLE—*Van Slyke, F. J.
 LINFIELD—*†Mitchell & Van Meter Co. (See Philadelphia)
 LITTLE OLEY—*†Colebrookdale Iron Co.
 LOCKHAVEN—†Novert Iron Works
 LOCUST VALLEY—*†Morey, Eugene A.
 LUZERNE—*†Luzerne Foundry & Machine Co. (Mine Drills, etc.)
 Snyder, J. T. (Mine Drills, etc.)
 McDONALD—*Rank, H. W. (Oil & Gas Well)
 *Tillinghast, B. D. (Machinist) Machy.
 McEWENSVILLE—†Gearhart, Wm. L. & Son
 McKEESPORT—†Fort Pitt Steel Casting Co. (Steel Castings)
 *†Monon & Yough Foundry
 *†§National Tube Co. (Fdry. Dept.) (See Pittsburgh)
 *†Sheermesser, H. S.
 *Smith, Nimmo & Co. (Ornamental Iron Work)
 *Tube City Engineering & Machine Co.
 McKEES ROCKS—†Central Car Wheel Co. (Car Wheels, etc.) (See Pittsburgh, Pa.)
 †Fort Pitt Malleable Iron Co.
 *Fort Pitt Spring & Mfg. Co. (See Pittsburgh)
 *McKay, Jas. Co. (Chains, etc.) (See Pittsburgh)
 *†Penna. Malleable Co. (See Pittsburgh)
 †Pittsburg Pipe & Iron Co.
 *†Pressed Steel Car Co. (See Pittsburgh)
 *†Taylor-Wilson Mfg. Co. (Iron Founders, Pipe, Mill & Special Machy., Machine Moulded Gears, etc.)
 McVEYTOWN—*†Stine, Samuel R.
 MACUNGIE—†Herbst & Angency Co.
 *§Macungie Brass & Mfg. Co.
 *§Neumeyer Bros. (Brass Fdry. & Nozzles & Couplings)
 MAHANAY CITY—*†§Grant Iron Works (Steam Engines & Pumps, Car Wheels, etc.)
 MANHEIM—*†Bond Fdry. & Mach. Co. (Power Transmitting Machinery)
 *†Hershey Machine & Foundry Co.
 MARIETTA—†Marietta Casting Co. (Iron Fdrs)
 †Marietta Hollow Ware & Enameling Co.
 MARS—*Sheridan, Jno. J. & Co. (Machinists & Drilling Tools)
 MARTINSBURG—*†Morrison's Cove Mfg. Co. (Agrl. Implements, etc.)
 MAUCH CHUNK—*†§Stroh, W. H. (Est. of (Mining Mach'y & Castings)

MEADVILLE—*Barrett Machine Tools Co. (Machine Tools, etc.)
 *Champion Tool Co. (Blacksmiths' Tools)
 *Dowdell, H. (Machinist)
 *Erie R. R. Shops
 *Lord, L. L. Co. (Machinists)
 *McCroskey Reamer Co. (Inc.) (Chucks, Reamers, etc.)
 *McNair, M. H. (Machinist)
 †Meadville Malleable Iron Co. (R. R. & Other Castings)
 *Munhall Mfg. Co. (Machinists)
 *†Page, W. H. Boiler Co. (Heaters, etc.), (Office New York City)
 *†Phoenix Iron Works Co. (Steam Engines, etc.)
 *Uwanta Wrench Co. (Wrenches, etc.)
 *Yost, G. M. Mfg. Co. (Vises, etc.)
 MECHANICSBURG—†Comstock, Geo. S. (Mill, Mining & Farm Machinery)
 *Potts Mfg. Co. (Machinists, etc.)
 *Wilcox, D. Mfg. Co. (Carriage Hdwe., etc.)
 MEDIA—*Wood, Wm. H. (Special Machy., etc.)
 MERCER—†Reznor Mfg. Co. (Gas Stoves, etc.)
 MEYERSDALE—†Boucher, Milton H. (Iron)
 *†Miller, Wm. S. (Machinist) Founder
 MIDDLETOWN—*†King Lawson Car Co. (Cars)
 *†§Middletown Car Works (Cars & Castings)
 *†National Tube Co. (See Pittsburgh)
 *†Raymond Mfg. Co. (Stoves, etc.)
 MIDLAND—*†Adams, S. Jarvis, Co. (Axe Boxes, Brake Shoes, Iron Fdrs., etc.)
 MYFLINBURG—†Albright, Jas. H. & Sons (Agrl. Impls., Cultivators, Harrows, Rakes, etc.)
 MILFORD SQUARE—*Weisel, Harvey H.
 MILLERSBURG—*Brubaker, W. L. & Bros. (Stocks, Dies, Taps, etc.)
 *Lenker, Frank K. & Co. (Stave Machy, etc.)
 *Millersburg Fifth Wheel Co. (Fifth Wheels, etc.)
 *Polk, A. J. & Son (Screw Plates, Taps, Dies, Reamers, etc.)
 MILLHEIM—*†Hartman, J. H. B. & Co.
 MILTON—*†American Car & Foundry Co. (See St. Louis, Mo.)
 *Milton Mfg. Co. (Nuts, Washers, etc.)
 *†§Shimer, Saml. J. & Sons (Ettinger Cutter Heads, etc.)
 MONACA—*†United States Sanitary Mfg. Co. (See Pittsburgh, Pa.)
 MONESSEN—*†§Monessen Fdry. & Machine Co.
 *Page Woven Wire Fence Co. (Machine Shop for Company's Own Use)
 *Seamless Tube Co. of America (Machine Shop for Own Use) (Office, Pittsburgh, Pa.)
 MONONGAHELA—*†Coshocton Iron Co. (Iron Castings, etc.)
 *Herron-Webb Engineering Co. (Mine Ventilating Fans, etc.)
 *Liggett Spring & Axle Co. (Carriage Axles & Springs, etc.) (See Pittsburgh, Pa.)
 *†Monongahela Castings Co. (Grey Iron Castings)
 MONROETON—*†§Loetzer Valve & Mfg. Co. (Valves, Fire Hydrants, etc.)
 MONT CLARE—†Hallman, Oliver (Cast Iron Pipe Fittings)
 MONTGOMERY—*†American Woodworking Machinery Co. (Woodworking Mach'y). (See Rochester, N. Y.)
 MONTROSE—*†Beach Mfg. Co. (Woodworking Machinery)
 MOSCOW—†Schwartz, Philip
 MOUNT CARMEL—*†§Mount Carmel Iron Works (Coal Mining Machinery, etc.)
 MOUNT JOY—*†§Grey Iron Casting Co. (Light & Heavy Castings)
 *Rollman Mfg. Co. (Iron Novelties)
 MOUNT PLEASANT—*Mount Pleasant Tool Co. (Tools, etc.)
 MOUNTVILLE—*†Mountville Mfg. Co. (Agrl. Impls., Plows, Planters, Corn Shellers, etc.)
 MUNCY—†Artley, John (Agrl. Impls.)
 *Guyer, Clinton (Machinist)
 *†Robinson Mfg. Co. (Flour Mill Machy.)
 *†Sprout, Waldron & Co. (Flour Mill Machy, etc.)
 MYERSTOWN—†Dubble & Zinn
 *Myers, El. H., & Bros (Machinists)
 *†Palmer, Jos. & Sons
 *†Stoeber Fdry. & Mfg. Co. (Pipe Cutting & Threading Machines, Heavy Castings, etc.)
 NANTICOKE—*Bittenbender, W. W. & Co. (Machinists & Mine Drills)

NAZARETH—*†Emerich, Geo. R. (Cement Machinery)
 NEW BRIGHTON—*†Brighton Brass & Bronze Co. (Brass & Bronze Fdrs.) (See Pittsburgh, Pa.)
 †Calhoun, J. S. & R. E.
 †Damascus Crucible Steel Casting Co.
 *Leard, W. E. (Engines, etc.)
 *Pittsburg Machine Co. (Gas or Gasoline Engines)
 †Riedel & Sons Mfg. Co. (Engines)
 *†Standard Sanitary Mfg. Co. (See Pittsburgh, Pa.)
 *Townsend, C. C. & E. P. Co. (Wire Rivets, Nails, etc.)
 NEW CASTLE—*†American Car & Ship-Hardware Co. (Brass Car Trimmings & Castings)
 *†Douds, Frank C., & Co. (Steam Specialties, Castings, etc.)
 *New Castle Forge & Bolt Co.
 *†Penna Engineering Works (Rolling Mill Mach'y. & Castings)
 †Stove & Range Co. of Pittsburgh
 NEWHAVEN—*†Connellsville Iron Works (Boilers, Tanks, etc.)
 *Connellsville Mfg. & Mine Supply Co. (See Connellsville, Pa.)
 †Long, David (Iron Fdry.)
 NEW HOLLAND—*†New Holland Machine Co.
 NEW KENSINGTON—*†Aluminum Co. of America. (Office Pittsburgh)
 †Aluminum Cooking Utensil Co.
 *Fort Pitt Motor Mfg. Co. (Automobiles, etc.)
 *†Harrold Foundry & Machine Co.
 NEW OXFORD — *†Weaver Mfg. Co. (Feed Cutters, etc.)
 NEWPORT—†Juniata Furnace & Foundry Co. (See Phila., Pa.)
 NEWSIDE—*†Peter, F. N., & Bro. (Iron Railings, etc.)
 NEWVILLE—*Whistler, J. C.
 NORRISTOWN—*†Fowler & Wolfe Mfg. Co. (Radiators). (See Phila., Pa.)
 *†Haines, Jones & Cadbury Co. (See Philadelphia, Pa.)
 *†Newhold, R. S. & Son Co. (Rolling Mill Machy. & Castings, etc.)
 *Reading Screw Co. (Screws & Specialties)
 *†§Rittenhouse, C. & Sons (Tack Machy, etc.)
 *Rittenhouse, Frank (Confectioners' & Tack)
 *Rittenhouse, Wm. H. Machy., etc.)
 *Walton & Ball
 *†§Wildman Mfg. Co. (Knitting Machines, etc.)
 NORTH EAST — *§Eureka Tempered Copper Works (Commutators, etc.)
 *†Fernald Mfg. Co. (Hardware & Harness Specialties)
 *†Pabody, Jno. D.
 NORTH GIRARD—*Federal Electric Co. (Electric Generators, Motors, etc.)
 NORTHUMBERLAND—*Keystone Forging Co. (Fifth Wheels, etc.)
 NORTH WALES—†North Wales Foundry Co. (Stoves, etc.)
 *†North Wales Machine Co. (Machine Tools)
 OAKHALL STATION—*†Sellers, Edward (Corn Planters, Feed Cutters & Land Rollers)
 OGONTZ—*Hammond, C. & Son. (Edge Tools, Hammers, Sledges, etc.)
 OIL CITY—*Boardman, Robt. Co. (Oil & Gas Well Tools, etc.)
 *Condryn, Wm. (Machinist)
 *Logan, A. W. (Engines, etc.)
 *Logan, Robt. (Engines & Oil Well Supplies)
 *†§National Transit Co. (Steel, Brass, Bronze & Iron Castings, etc., all consumed by the company)
 *†Oil City Boiler Works (Steam & Gas Engines, etc.)
 *†Oil City Foundry Co.
 *†§Oil Well Supply Co. (See Pittsburgh, Pa.)
 *†§Reid, Jos. Gas Engine Co. (Gas Engines, etc.)
 *Riverside Engine Co. (Gas Engines, etc.)
 *Simon, August (Machinist)
 ORANGEVILLE—†Connor, J. W.
 ORBISONIA—*†§East Broadtop R. R. & Coal Co.
 OSCEOLA MILLS—*†§Stine, S. B. (Mine Fans, Haulage, Engines, etc.)
 PALMYRA—*Stahley, Wm.
 PARKESBURG—*Parkesburg Iron Co. (Machine Shop Connected with Works)
 PATTON—*Cole Bros. (Machinists)
 PENN STATION—†American Fdry. & Pipe Co. (See Pittsburgh, Pa.)
 *†Hockensmith Wheel & Mine Car Co.
 PERKASIE—*Kramer, Wm. K.

PETROLEUM CENTER—Bets, W. L.
PETROLIA—Berry Bros.
PHILADELPHIA—Adams, Wm., Fdry. Co.
 (Iron Fdrs., Builders' & Other Castings, etc.), 960 N. 9th
 §Adams & Westlake Co., 2042 N. 10th.
 (See Chicago, Ill.)
 §Ajax Metal Co. (Brass Fdrs., Smelters & Bearings, etc.), 48 Richmond
 *Albro-Clem Elevator Co. (Elevators), 7th & Glenwood av
 *Allen, Alonzo W. (Machinist), 2423 Mascher
 *Allen, A. & Co. (Machinists), 2001 Carpenter
 *Allen Iron & Steel Co., 3rd & Venango
 *Allen, S. L. & Co. (Agrl. Impls.), 1107 Market
 *Altomus, Jacob K. (Textile Machy.), 2824 N. 4th
 *American Addograph Co. (Inc.), 525 Phila. Bourse, Factory, Camden, N. J.
 *§American Bridge Co. of New York (Pencoyd Works), Penn. bldg.
 *†American Drying Machinery Co., 3301 N. 19th
 *†American Fork & Hoe Co. Ashland nr Fkd. Creek, Fkd. (See Cleveland, O.)
 *American Insulating Machinery Co. (Wire Winding Machy., etc.), Oxford cor. N. Hancock
 *American Metal Edge Box Co., 2115 S. 8th
 *American Metal Works, 326 Armat, Gtn
 *American Meter Co., 100 N. 22d
 *†American Pulley Co. (Pulleys, Bushings, etc.), N. 29th & Bristol
 *Atlantic Works (Inc.) (Woodworking Machinery), 2821 Oakford
 *Baeuerle & Morris (Sugar Machinery), 932 N. Front
 *Bagshaw & Field (Machine Tools), 317 Cherry
 *†Baizley, Jno. Iron Works (Builders' Iron Work & Castings), 514 S. Del. av
 *†Baldwin Locomotive Works (Locomotive Builders), 500 N. Broad
 *Barber & Furrer (Machinists), 429 N. Orianna
 *†Barker, Jas. (Iron Foundry, Cotton & Woolen Mach'y & Grey Iron Castings), N. 6th & Cayuga
 *Barnett, G. & H. Co. (Files, etc.), 1076 Fkd. av
 §Belfield, H. & Co. (Brass Fdrs., Steam Specialties, etc.), 435 N. Broad
 *†Bellwood Mfg. Co. (Iron Fdrs. & Machinists), Penn Sq bldg. Works, Bellwood, Pa.
 †Belmont Iron Works, Real Estate Trust bldg
 *†Bement Miles Pond Co., 21st, c. Callowhill. (See Niles, Bement, Pond Co.)
 *†Bernstein Mfg. Co. (Metallic Bedsteads, Grey Iron Castings, etc.), 3rd & Allegheny av
 †Biggin, Chas. P., Co. (Iron Fdrs. & Bldrs. Iron Work), 1829 Harlin
 *Bilgram, Hugo (Gears & Gear Cutting), 1235 Spring Garden
 *Billington, Jas. H. Co. (Textile Machy.), 113 Chestnut
 §Bircher, Geo. (Brass Fdr., etc.), 716 Cherry
 *Blessing, C. A. (Plumbing Specialties, etc.), 516 Montgomery av
 *Boekel, Wm. & Co. (Metal Spinning, Force & Test Pumps, etc.), 518 Vine
 *Bonney Vise & Tool Works (Inc.), 3015 Chestnut
 *Borchers, Richard C. & Co. (Textile Machinery), Womrath & Tackawanna
 *Borger, Jos. (Butchers' Tools, etc.), 2035 N. 2d
 Boureau, H. U., & Co. (Builders' Iron Works, etc.), 3302 Ludlow
 *Bourquin & Sons, 445 N. 5th
 *Box, Alfred & Co. (Cranes, Hoists, etc.), 813 N. Front
 *Bradford Wool Comb Co., 2630 Mascher
 *Branson Machine Co. (Textile Mach'y), 506 N. American
 *†Braun, Jno. & Sons (Lawn Mowers, etc.), 1615 N. 23d
 *Brenner, Jos., 2d c. Diamond
 *Brewer Bros. (Bldrs.' Hdw., etc.), 614 Filbert
 *§Bridgman Bros. Co. (Valves, Fittings, Brass Castings, etc.), 1422 Wash'n av
 *§Brill, J. G. Co. (Car Builders, etc.), S. 62d & Woodland av
 *Brinton, H. Co. (Knitting Machy.), 213 Race

*Brohard Co. (Hardware Specialties, etc.), 1624 N. 9th
 †Brown, E. E. & Co. (Iron Fdrs. & Mfrs. of Sash Weights & Specialties), McKean & Meadow
 *Brown, Frank P. (Gas Fixtures & Supplies), 45 N. 6th
 §Buckley, Walter F., 627 Filbert
 *Bullock, Chas. K. (Flour Mill Machy.), 1361 Ridge av
 *§Bureau Bros. (Bronze & Brass Fdrs. & Statuary, etc.), N. 21st & Allegheny av
 *†Butterworth, H. W. & Sons Co. (Textile Machy.), E. York & Cedar
 *†Cambria Steel Co. (Steel Cars, Engine & Tender Trucks, etc.), Arcade bldg. Works, Johnstown, Pa.
 *†Camden Iron Works (Fdrs., Machinists & Pumping Machy), 400 Chestnut. Works, Camden, N. J.
 *Campbell, P. F. (Millwright & Machinist, Steam Engines, Grinding Mills, etc.), 51 Laurel
 *Carnell, Geo. (Est. of) (Brick Machinery), 1519 N. 5th
 *Carr, Jos., Co. (Special Machy. & Optical Grinding Tools), 132 N. 7th
 *Carver, C. R. Co. (Embossing & Stamping Presses, etc.), N. 15th & Lehigh av
 §Carver, F. C., Co. (Brass & Bronze Castings, etc.), 458 N. Orianna
 *Carver File Co., 3233 Franklin av
 §Caskey, Wm. & Son (Brass Fdrs. etc.), Beach & E. Norris
 *Central Machine Co. (Machinists), 732 Sansom
 *Challenge Machine Co. (Emery & Tool Grinders, etc.), 5116 Springfield av
 *†Chambers Bros. Co. (Brick & Paper Folding Machinery, etc.), N. 52d & Lancaster av
 *Champion Candy Machine Co. (Confectioners' Machy.), 3311 Old York rd
 *†Chester Steel Castings Co. (Open Hearth Steel Castings), 407 Sansom
 *Chesterman, F. E. & Co. (Metal Specialties, etc.), 127 N. 7th
 *Clad, V. & Sons (Inc.) (Cooking Apparatus, French Ranges, etc.), 239 S. 12th
 †Clark's Iron Foundry (Grey Iron Castings), Gray's Ferry av c S. 35th
 §Clay, John H. (Brass Finisher & Fire Dept. Supplies, etc.), 1320 Ridge av
 *Cocker Machinery Co., 4043 Paul, Fkd
 *Coles Mfg. Co. (Grinding Mills, etc.), 1615 N. 23d
 *Colladay, Jos. O. Co. (Woodworking Machinery), 624 Race
 *Cook, Stephen S. (Machinist), 624 Race
 *Cooper, Dyer (Machinst & Pumps), 614 N. 3d
 §Cooper, W. S. Brass Works (Brass Fdrs. & Finishers, Plumbing Goods), 437 N. 12th
 *†Cox, Abram Stove Co. (Stoves & Heating Apparatus), N. American c Dauphin
 *†Cox & Sons (Inc.) (Steam Engines & Pipe Cutting & Threading Machines), 215 Race. Works, Bridgeton, N. J.
 *Coyle, H. B. Iron Works, 622 Filbert
 *†Cramp, Wm. & Sons Shlp & Engine Building Co. (Steel Ships, Marine Engines, etc.), 546 Phila. Bourse
 §Crescent Phosphorized Metal Co. (Phosphor Bronze, Copper & Tin), 2314 Wood
 *†Cresson, Geo. V. Co. (Power Transmission Mach'y, etc.), 18th & Allegheny av
 *†Creswell, Saml. J. Iron Wks. (Inc.) (Iron Fdrs. & Bldrs.' Iron Work), Cherry & N. 23d
 *†Crompton & Knowles Loom Works (See Worcester, Mass.)
 *DALLETT, THOS. H. CO. (Pneumatic Tools, etc.), 2300 York. (See adv. index, end of book)
 *DAVIS, RODNEY (Gears), 626 Race. (See adv. index, end of book)
 *Defiance Mfg. Co., 4153 Frankford av
 †Deily & Fowler Mfg. Co. (Gas Tanks etc.), 39 Laurel
 *Deissler, P. & Bro. (Machinists), 249 S. 6th
 *†Devlin, Thos. Mfg. Co. (Malleable & Grey Iron & Brass Fdrs., Malleable Iron Fittings & Carriage & Saddlery Hardware, etc.), N. 3d & Lehigh av
 *Deweese, Jno. W. (Machinist), 640 Filbert
 *Diamond Textile Machine Works (Textile Machy, etc.), C. nr E. Westmoreland
 *†Dieltz & Eisenhardt (Inc.) (Iron Fdrs., Hydraulic Jacks, Power Hammers, etc.), 1304 N. Howard
 *Dietz Machine Works (Envelope, Cigarette & Match Box Machy), 126 Fontaln

*Dill, T. C. Machine Co. (Machine Tools & Slotting Machines, etc.), Somerset & Ma'cher
 †Diller, Caskey & Keen (Stoves), N. 6th c Berks
 *†Diston, Henry & Sons (Inc.) (Saws, Tools, etc.), Tacony & N. Front, c Laurel
 *†Dodge, J. M., Co. (Elevating & Conveying Machinery, etc.), McKean av c Napier, Gtn
 *Dunn, Robert N., 1850 Hope
 §Dunn & Eldrige (Brass & Bronze Hdw. etc.), 6 N. 6th
 *Earle Gear & Machine Co. (Cut Gears, etc.), Stenton & Wyoming av., Gtn
 *†Elba Iron Mfg. Co., Perry bldg.
 *Electric Storage Battery Co. (Storage Batteries, etc.), N. 19th & Allegheny av
 *§Ellis, G. D., & Sons Co. (Brass Specialties, etc.), 229 Vine
 *Ellison Bros. (Machine Tools, etc.), Scattergood, nr Eadom, Fkd
 *Energy Elevator Co. (Elevators), 214 New
 *†Enterprise Mfg. Co. of Pa. (Meat Choppers, Lawn Mowers & Sprinklers, & Hdw. Specialties, etc.), N. 3d & Dauphin
 *Espan-Lucas Machine Works (Machine Tools, Cold Saws, etc.), 342 N. 15th
 *Evan's, Jno. Sons (Car & Carriage Spring & Leather Machy), 506 N. 13th
 §Evans, S. W. & Son (Brass Goods), 4623 Paul, Fkd
 §Excelsior Brass Works, 1517 Spring
 *§Eynon-Evans Mfg. Co. (Engineers' Specialties & Brass Composition Castings), 1509 Clearfield
 †Fairmount Foundry Co., 2106 Wood
 *†Fay Machine Tool Co. (Machine Tools, etc.), 2d & Glenwood av
 *Fischer Machine Co. (Paper Bag & Special Machy.), 1217 Race
 *†Flagg, Stanley G. & Co. (Iron & Steel Fdrs., Steam Pipe Fittings), 424 N. 19th
 *†Florence Iron Works (Iron Fdrs. & Machinists), 400 Chestnut. Works, Florence, N. J.
 *§Ford Bros. & Co. (Machinists & Brass Fdrs.), 1610 S. Front
 †Ford & Kendig Co. (Iron Pipe, etc.), 1428 Callowhill
 *†Fowler & Wolfe Mfg. Co. (Radiators, etc.), Bourse bldg. Works, Norristown, Pa.
 *§France Packing Co., Inc. (Metallic Packing, etc.), 6512 State rd. Tac.
 *†Frankford Foundry & Machine Works (Power Presses, Edge Tool Machinery, etc.), Fkd
 §Fullerton, Frank S. (Brass Fdry. & Smelter), 438 E. Girard av
 *§Furlow & Co. (Plumbers' Brass Goods, etc.), 2020 E. Willard
 †Gaumer, John L., Co. (Bldrs. Iron Work, etc.), 22d c Wood
 *Gefroerer, C. & Son (Gas Burners & Brass Goods), 248 N. 6th
 *General Engineering Co. (Machy. Repairs, etc.), 764 Swanson
 †Gensel, Fred., & Co. (Iron Railings, etc.), 911 Vine
 *Genth, Chas. H. (Machinist), 2007 Oxford
 *Germantown Tool Works (Tools, etc.), 57 Armat, Gtn
 *Gibson Gas Fixture Works, 1426 Callowhill
 †Girard Iron Works (Iron Fdrs. & Machinists, Brewers' Machy. Castings, etc.), N. 22d & Master
 *Girard Machine & Tool Co. (Machy & Tools), 491 N. 3d
 *Glaser Mfg. Co. (Machinists), 2733 N. 6th
 *†Globe Machine & Fdry. Co., Inc., Tackawanna & Church, Fkd
 †Glover Bros. (Iron Founders & Hdw. Specialties), Paul & Vandyke, Fkd
 *Gray's Ferry Machine Co. (Ltd.) (Engines, Special Machinery, etc.), 3105 Gray's Ferry rd
 *Griffin, Jno. J. & Co. (Gas Meters, etc.), 1513 Race
 *§Griffiths, Jas. A. (Injectors, etc.), 500 N. 12th
 *†GRISCOM-SPENCER CO., ft. Washington av. (See New York.) (See adv. index, end of book)
 *Grissinger Machine Works, 904 Quarry
 §Guest, Geo. (Awning Frames, etc.), 4423 Ludlow
 *§Haines, Jones & Cadbury Co. (Brass Fdrs., Plumbers' Brass Goods & Supplies), 1136 Ridge av. Works, Norristown, Pa.
 *§Hale & Kilburn Mfg. Co. (Car Seating, etc.), 18th & Lehigh av

*Halstead & Co. (Brass Fdms. & Finishers), 1129 Cherry
 *Haltons, Thos. Sons (Textile Machinery), E Allegheny av & C
 *Hankey, A. & Co., 1213 Race. (See Rochdale, Mass.)
 *Harman Bros. (Machinists), 1044 S Chadwick
 *Harrington, Edwin Son & Co. (Machine Tools, Chain Holes, etc.), N 17th & Callowhill
 *Harrison Safety Boiler Works (Feed Water Heaters, Separators, Ice Breakers, etc.), 17th below Allegheny
 *Harrison's, Wm. H. Sons (Engineers & Machinists), 1708 Ludlow
 *Hartman Co. (Valves, Tuyeres, Coolers, Liquid Cluder Cars, etc.), 1231 N Front
 *Harton, Pembroke D. (Bakers' Machy), 1431 Fairmount av
 *Haskell-Dawes Machine Co., Trenton & Erie avs
 *Hawkins-Wilson Co. (Steel Die Stamping Presses), 712 Sansom
 *Heller & Brightley (Mathematical Instruments), Ridge av & Spring Garden
 *Helme & McIlhenny (Gas Meters, etc.), 1339 Cherry
 *Henderson Machine Co. (Machy. Mfrs.), 5032 Gtn. av
 *Hentschke, Albert, & Son (Surgical & Dental Instruments, etc.), 731 Race
 *Hepworth, Jno. W. & Co. (Textile Machy), cor Mascher & Lehigh av
 *Hess-Bright Mfg. Co., 19th & Hamilton
 *Hess Machine Works, Jno. A. Hess (Machinist & File Machy), 2512 Callowhill
 *Hess & Barker (Engineers & Machinists, Tablet Machines), 605 Sansom
 *Hey, M. Mfg. Co. (Brass Fdms. & Brewers' Specialties), 637 N 3d
 *Hill, B. B. Mfg. Co. (Copying Presses, etc.), 1020 New Market
 *Hiltzeroth, Edward (Builders' Castings, etc.), 3120 Market
 *Hodson, G. & A. Pulley Depot (Pulleys, etc.), 226 Arch
 *Homer Brass Works (Inc.) (Brass Fdms. & Finishers), 231 Race
 *Hood, R. H. (Worsted & Curled Hair Machinery), 1842 Gtn. av
 *Hoopes & Townsend Co. (Bolts, Nuts, Washers, etc.), 1330 Buttonwood
 *Horn & Brannen Mfg. Co. (Inc.) (Gas Fixtures & Brass Fdms.), 427 N Broad
 *Horridge & Hinman (Machinists), 628 Race
 *Horrocks Iron Works (Builders' Iron Works), 234 N Broad
 *Hub Machine & Tool Co. (Metal Sawing Machines, etc.), 621 Cherry
 *Hughes & Russum (Beaming Machines, etc.), 4424 Hedge, Fkd
 *Hunter, Robt. & Son (Textile Machy.), Bristol & Gtn. av
 *Ideal Machine Co. (General Machine Work), 316 N 22nd
 *Insinger Co. (Dish Washing Machines, etc.), Stenton av above Wayne Junc.
 *International Sprinkler Co. (Automatic Sprinklers), 517 Arch
 *Jaeger Automatic Machine Co. (Slot Machines), 2238 N 9th
 *Jesson, Jno. B. (Machinist), 208 New
 *Jones, Lewis N., Machinist (Knitting Machy.), Media cor. Edgewood
 *Jones, Rogers & Co., Machinists, 327 New
 *Junata Furnace & Foundry Co. (Iron Fdms.), 30 Girard av
 *Kaltenthaler, Henry J. (Flanges & Flange Fittings, etc.), 230 Cherry
 *Kappler-Fox Foundry Co. (Stoves, etc.), E York & Thompson
 *Keller Mfg. Co. (Dish Washing Machines, Vacuum Cleaners, etc.), 21st & Allegheny av
 *Kensington Engine W'ks (Engines, etc.), Beach & E Berks
 *Keystone Electrical Instrument Co. (Electric Instruments), 901 Montgomery av
 *Keystone Elevator Inspection & Repair Co., 923 Locust
 *Keystone Spring Works (Carriage Springs, etc.), 500 N 13th
 *Keystone Structural Co. (Steel Structural Work), Harrison bldg
 *Kinetic Electric Co. (Dynamos & Motors), 16 S Schell
 *Klirn, M. L., & Bro. (Brass Fdms.), 2135 N Lawrence
 *Klitsen Hydro-Carbon Heating & Incandescent Lighting Co. (Klitsen Hydro-Carbo Lamps, etc.), 1230 Callowhill

*Klause Chas. (Brass Fdry. & Metal Spinning), 1204 Nectarine
 *Klein, Chas. C. (Mill Engineer & Machinist), 2850 N Marshall
 *Koch & Fox (Iron Fdms. & Sash Weights), N 22d & Glenwood av
 *Krips-Mason Machine Co. (Inc.) (Cutting & Punching Machy.), 1636 N Hutchinson
 *Kruger & Bilnd Co., 513 Master
 *KUTZTOWN FOUNDRY & MACHINE CO. (Boiler Fronts, Grate Bars, Compound Separators, etc.) (See adv. index, end of book)
 *Lampe & Bartels (Machinists), 115 N Front
 *Lanston Monotype Machine Co. (Machinists), 1231 Callowhill
 *Liberty Stove Co. (Ranges, Furnaces, etc.), 114 N 2nd
 *Lindsay, Hyde & Co., 2130 E. York
 *Link Belt Co. (Elevating & Conveying Machy), Nicetown (Main Office: Chicago)
 *Lonergan, J. E. & Co. (Brass Fdms. & Finishers & Steam Specialties), 211 Race
 *Loomis-Manulug Filter Co. (Water Filters), Land Title bldg
 *Loraln Steel Co. (Grey Iron & Steel Castings, Frogs, Switches, etc.), Penna. bldg. Works, Johnstown, Pa.
 *Lorimer Machine Co. (Textile Machy.), Ontario & N Lawrence
 *Lovekin Pipe Expanding & Flanging Machine Co., 421 Chestnut
 *Lukens, Thos. F. (Canning Factory Supplies), 238 N 4th
 *Lusse Bros. (Machinists), 819 N Lawrence
 *Lutner, Wm. (Machinist), 1603 S Front
 *Lynwood Mfg. Co., Westmoreland & N 2c
 *McCambridge & Co. (Sanitary Brass Goods), 315 N 20th
 *McCaffrey File Co. (Files, etc.), 1842 N 5th
 *McHatton Smelting Co. (Brass Fdms. & Smelters), 1500 Wash'n av
 *McMichael, Abner (Machinist), 22 Armat. Gtn.
 *McNiece, Wm. & Son (Saws, etc.), 51f Cherry
 *Maerky, Emil, 132 Arch
 *Maignen, P. A. (Filter Mfrs.), 52 N 13th
 *Maris Bros. (Cranes & Holes, etc.), S 56th & Gray's av
 *Massa, George (Locks, etc.), 232 Ionic
 *Mayall, Lewis A. (Machinist), 803 Locust
 *Meehan, F. E., 609 Commerce
 *Meerbach & Schuelder (Iron Founders, Machy. Castings, etc.), 1612 Vandike Fkl
 *Melzer, Saml. (Brass Fdry.), 205 Quarry
 *Mercury Machine Co. (Inc.) (Key Seating Machines), 2117 N Broad
 *Metal Art Co., 2633 Bodine
 *Metz, R. P., Mfg. Co. (Steam Specialties, etc.), 608 N Hancock
 *Midland Metal Co. (Inc.) (Ornamental Brass & Bronze Work), 21st & Jefferson
 *Midvale Steel Co., Nicetown
 *Miller Lock Co. (Locks, etc.), 4523 Ta cony
 *Mills, Thos. & Bro. (Inc.) (Brass Fdms. & Confectioners' Machy), 1301 N 8th
 *Mitchell, John (Millwright, Machinist & Bldrs.' Iron Work), 2224 Vine
 *Mitchell & Van Meter Co. (Cast Iron Soil Pipe, etc.) Phila. Bourse, Works Linfield, Pa.
 *Moore & White Co. (Iron Fdms. & Machinists, Paper & Pulp Mill Machy, etc.), N 15th & Lehigh av
 *Morris Engineering Co. (Hydraulic & Special Machinery), 37th & Reed
 *Morris, I. P. Co. (Engines, Pumps, Turbines, Castings, etc.), Beach & Bal
 *MORSE, WILLIAMS & CO. (Elevators, Worm Gears, etc.), West End Trust bldg. (See adv. index, end of book)
 *Mousley, Chas., & Sons (Brass & Bronze Castings & Ship & Car Hardware Mfrs.), 457 N 12th
 *Mumford, E. H. Co., 17th & Callowhill
 *Mursat, Fred'k A. (Models & Experimental Work), 830 Race
 *Nacke, A. & Son, 236 S 9th
 *National Automatic Knitter Co. (Inc.) (Textile Machy., Knitting Machines, etc.), 728 Cherry
 *National Metal Edge Box Co. (Metal Edge Box Machines), 8th & Willow
 *National Specialty Mfg. Co. (Drug Mills, etc.), N 3d & Lehigh av
 *Naylor, John S. (Engineer & Iron Fdry.), N Front & Girard av

*Nazel Engineering & Machine Works (Machinists & Machine Tools, etc.), 4041 N. 5th
 *Newell Brass Mfg. Co., 443 N Broad
 *Newton Machine Tool Works (Inc.) (Machine Tools), 2347 Vine
 *Niles-Bement-Pond Co. (Machinists & Machine Tools), Millin, c Meadow. (See New York City)
 *North American Smelting Co., N 9th & Thompson
 *North Bros. Mfg. Co. (Brass & Iron Fdms. Hardware & Specialties), Lehigh av, c N American
 *Northern Machine W'ks, 2008 N Lehigh
 *Novelty Electric Co. (Electric Specialties), 50 N 4th
 *Nye & Tredick Co. (Textile Machy.), 606 Arch
 *O'Neill Elevator Co. (Elevators), 628 Cherry
 *Oat, Jos., & Sons (Sugar Machy. & Copersmiths), 232 Quarry
 *Oldham, Geo., & Son (Pneumatic Tools), d 1828 John, Fkd
 *Oliver, J. H. & Co., 1414 S Penn Sq
 *Olson Tinius & Co. (Testing & Hydraulic Machy.), 500 N 12th
 *Orum, Morris L. (Machinist), 503 N 11th
 *Ott, Geo. F. (Iron & Brass Works), 209 Buttonwood
 *Otto Gas Engine Works (Gas Engines), S 33d & Walnut
 *Palste, H. T. Co. (Electrical Specialties), N 32d & Arch
 *Pancoast, Henry B., & Co. (Iron Pipe, Fittings, etc.), 243 S 3rd
 *Parham & Lawser (Machines, etc.), 712
 *Parsons, Paul J., 2531 Poplar Cherry
 *Partick, Carter & Wilkins (Electrical Specialties), N 22d & Wood
 *Paxton & O'Neill (Knitting Machines), 541 N 3rd
 *Pearce, Geo. B. & Co. (Hosiery Machy, etc.), 2316 N 8th
 *Peerless Belt Lacing Machine Co. (Belt Lacing Machines), S Swanson & Moore
 *Penna. Forge Co. (Forges), Wakeling, nr Stiles, Bgd.
 *Penna Steel Co. (Railroad Specialties & Steel Mfrs, etc.), Girard bldg.; Works: Steelton, Pa.
 *Perkes, Chas. (Brass Fdr. & Plumbing Goods), 627 Arch
 *Perseverance Iron Foundry (Ltd.) (Iron Fdms.), 822 Latonia
 *Philadelphia Drying Machinery Co. (Drying Machy, Fans & Presses), 672f Gtn. av
 *Philadelphia Electrical & Mfg. Co. (Electrical Specialties), 1232 N 31st
 *Philadelphia Gear Works (Inc.) (Gears, etc.), 12th & Vine
 *Philadelphia Hardware & Malleable Iron Works, 9th & Jefferson
 *Philadelphia Hydraulic Works (Engines & Pump Repairs, etc.), 1218 Cuthbert
 *Philadelphia Iron Works, 418 N 18th
 *Philadelphia Lawn Mower Co. (Lawn Mowers, etc.), 3101 Chestnut
 *Philadelphia Machine Screw Works, 624 Race
 *Philadelphia Novelty Mfg. Co. (Inc.) (Hardware Specialties, etc.), 427 N 13th
 *Philadelphia Roll Works, 212 N Darlen
 *Philadelphia Roll & Machine Co. (Rolling Mill Machy & Castings), 308 Walnut
 *Philadelphia Spring & Axle Works, 1439 N Hutchinson
 *Philadelphia Stove & Iron Foundry Co. (Iron Fdms. & Stoves, Ranges & Grey Iron Castings), 1631 N 5th
 *Phila. Textile Machinery Co. (Textile Machinery), N Hancock & Somerset
 *Phoenix Iron Co. (Iron Founders & Machinists & Steel Mfrs.), 410 Walnut Works, Phoenixville, Pa.
 *Phosphor-Bronze Smelting Co. (Brass, Bronze & Composition Castings, etc.), 2200 Washington av
 *Plumb, Fayette R. (Inc.) (Edged & R. R. Track Tools, etc.), Tucker & Penna. R. R., Fkd.
 *Power, L. & Co. (Woodworking Machy.), 20 S 23d
 *Pressed Steel Mfg. Co. (Ball Bearings, Bearings, etc.), Phila. Bourse
 *Quaker City Metallic Bedstead Co., Wash'n av & S 18th
 *Railway Steel Spring Co. (R. R. Springs, etc.), 1028 Newmarket. (See New York City)
 *Reed, Chas. J. (Furnaces & Separators, etc.), 23rd & Hamilton

*Reeves, Paul S. & Son (Brass & Composition Castings & Bearings, etc.), 1425 Catharine
 *Rehfsuss, George & Sons, 1311 S Carlisle
 *Reid, A. H. Creamery & Dairy Supply Co. (Creamery Mach'y., etc.), 69th & Haverford
 *Reid, Robert, 71 Laurel
 *Reyburn-Hunter & Co. (Lightning Rods, etc.), 494 N American
 *Rich, J. & G. (Machinists), 120 N 6th
 *Richards Bros. (Machinists), 4365 Main, Manyunk
 *Riehl, H. & Son (Machinists), 1130 N Orinanna
 *Riehle Bros. Testing Machine Co. (Machinists, Testing Machines, Jacks, Presses, etc.), 1424 N 9th
 *Ritter Machine Co., 233 Cherry
 *Roberts Filter Mfg. Co. (Inc.), Germ Proof Water Filters & Brass Goods), 3015 Chestnut
 *Rohson, Chas. & Co. (Iron Fdry., Grate Bars & Castings), 8th & Washington av
 *Rohrman, Theo. B. (Brass & Grey Iron Castings), 30th & Chestnut
 *Rosenthal's, Jos. Sons (Brass Fdrs., etc.), 188 Berks
 *Rossmassler-Bonine Electric Co. (Electric Motors), 1236 N. Orkney
 *Roth, Gottlieb, 602 Beach
 *Rowan, Hy. J., Jr. (Machinist), 2030 Sansom
 *Rudolph, Wm. F. (Machinist), 649 N. Broad
 *Ruffner & Son (Boiler Flue Cleaners, Nut Locks, etc.), Bowman, nr Cresson Falls
 *Rumsey Electrical Co. (Electrical Specialties), 1211 Filbert
 *Rutschman, Oscar F. (Machinists' & Hand Drills, etc.), 426 Berks
 *Ruwell, Wm. F. (Engine Repairs, etc.), 718 Noble
 *Sanitary Devices Mfg. Co., Cottman & State rd., Tacony
 *Savill, Thos. & Sons (Brass Fdry. & Finisher, Plumbing Goods), 520 N 11th
 *Schaefer, Emil (Brass Fdr. & Copper-smith), 1322 N 5th
 *Schaeffer Machine Works, 35th & Gray's Ferry rd
 *Schaum & Uhlinger (Textile Mach'y. Looms, Iron Fdrs., etc.), North Penn Junction
 *Schiller, Fred'k & Co., 323 N 3d
 *Schiller & Co., 820 Cherry
 *Schober, Geo. M., 3231 Market
 *Schoenewald, Robert, 1027 Ridge av
 *Schofield, Wm. Co. (Iron Fdrs. & Textile Mach'y.), Kram's av nr Silverwood, Manyunk
 *Schramm, Christian D., & Son, 308 N. 4th
 *Schutte & Koerting Co. (Steam Specialties), 1251 N 12th
 *Scott & Williams (Knitting Mach'y.), 2079 E Cumberland
 *Scullin, Simon, 2900 N American
 *Selfert, Chas. H. (Machinist), 158 York
 *Sellers, Wm. & Co. (Inc.) (Machine Tools & Heavy Machy), 1600 Hamilton
 *Sheeler-Hemsher Co. (Brass Fdrs.), 811 Fairmount av
 *Sheppard, Isaac A. & Co. (Stoves, Ranges & Furnaces), 4th, cor Montgomery av
 *Shlimer, H. M. & Co. (Smelters, etc.), S 19th & Wash'n av
 *Shuster Foundry Co. (Iron Fdrs., Cast Iron Pipe & Plumbers' Castings, etc.), 411 N
 *Sigler, Samuel, 310 Master Franklin
 *Simon, Omer, 3829 Pearl
 *Smith-Drum & Co., 2503 Coral
 *Smith & Furbush Machine Co. (Textile Machy.), Hancock & Somerset
 *Snediker, Jas. F., 129 N 7th
 *Sobers, Jacob (Iron Fdry.), 1114 Gtn. av
 *Southwark Foundry & Machine Co. (Engines, Rolling Mill Machy, etc.), 430 Washington av
 *Specialty Engineering Co. (Elevating & Conveying Appliances), 1908 E Westmoreland
 *Sprague, Wm. & Co. (Machinists), Witherspoon Bldg.
 *Standard Machine Co (Inc.) (Textile Machinery), 508 Ludlow
 *Standard Meter Co. (Gas Meters, etc.), 8th & Milfln
 *Standard Roller Bearing Co. (Ball & Roller Bearings), 50th & Lancaster
 *Standard Steel Works (Steel Castings, etc.), Harrison hldg
 *Standing, Saml., Somerset & Hope
 *Stanton & Lewis (Textile Mach'y.), 316 Florist

*Stiffel & Freeman (Safes, etc.), 723 Chestnut
 *Stokes, F. J., Machine Co. (Pharmaceutical Machy., etc.), 17th, c. Cambria
 *Stokes & Parrish Elevator Co. (Elevators), 12th & Sansom
 *Stokes & Smith Co. (Paper Box Machinery), 1011 Diamond
 *Stortz, John T. & Son (Tools, Dies, Punches, etc.), 210 Vine
 *Stow Flexible Shaft Co., Callowhill, c. N 26th
 *Straub, A. W. Co. (Grinding Mach'y, etc.), 3737 Filbert
 *Sugar Apparatus Mfg. Co. (Sugar Machy.), 326 Chestnut
 *Sulzer & Co. (Gas Fixtures, etc.), 821 Cherry
 *Sutterly, G. T. & Co. (Silverplated Ware & Brass Goods), 19th & Hamilton
 *Swelgard, Jos. L. & Co. (Pneumatic & Pump Mach'y), Betz bldg
 *Tabor Mfg. Co. (Fdry. Molding Machines, etc.), 18th & Hamilton
 *Tacony Iron Co., Land Title Bldg.
 *Talmage & Weldley (Brass Fdrs.), 230 N 15th
 *Thomas-Roberts-Stevenson Co. (Stoves, etc.), McKean c S 3d
 *Thompson Bros. (Machinists), 112 Broad
 *Thompson, J. & Co. (Iron Fdrs. & Machinists, Valves, Fire Hydrants & Castings, etc.), Van Horn & Sophia
 *Tilghman-Brookbank Sand Blast Co. (Sand Blast Machinery, etc.), 1126 S 11th
 *Tloga Foundry Co. (Loam, Green & Dry Sand, Mach'y & R. R. Castings, etc.), N 22d & Allegheny av
 *Tloga Steel & Iron Co. (Iron Fdrs., Iron & Steel Forgings), 52d & Gray's av
 *Troemer, Henry (Scales, etc.), 911 Arch
 *Turner Machine Co. (Sprue Cutting Machines, etc.), 2049 N 2d
 *Uco Brass Mfg. Co. (Inc.) (Plumbers' Brass Goods), 2436 Brown
 *Underwood, H. B. & Co. (Cylinder Boring Bars, etc.), 1025 Hamilton
 *Union Machine Works & Iron Foundry (Grey Iron Castings), 1825 So Water
 *Union Traction Co. (Fdry. Dept.)
 *United States Elevator Co. (Elevators, etc.), 212 Dock
 *United States Metallic Packing Co. (Metallic Packing, etc.), 427 N 13th
 *United States Navy Yard, League Island
 *United States Smelting Works (Smelters, etc.), 1615 Spring Garden
 *Universal Machine Works, 1060 Gtn. av
 *Walker, Dwight F. (Woodworking Mach'y), 59 Laurel
 *Walker, Edward A., 1015 Fkd. av
 *Walker Electric Co. (Electric Switches, etc.), 2338 Noble
 *Walker, Thos. & Sons, 4617 Tacony, Fkd
 *Walters, Geo. C., 1316 Ellsworth
 *Walton, P. M. (Machinist & Millwright), 1025 Gtn. av
 *Ward, Joseph T. (Iron Railings, etc.), 5918 Baynton, Gtn
 *Waters, D. A., Co., 1514 Hamilton
 *Watson & McDaniel Co. (Steam Traps, Valves, etc.), 146 N 7th
 *Watts & Stern (Electrical Machinists), 1303 Buttonwood
 *Wayne Iron Works, Arcade hldg
 *Wenzell, S. S. Machine Co. (Bottle Working Mach'y, etc.), 443 N 12th
 *Wetherill Finished Castings Co. (Finished Castings), 2501 N 12th
 *Wharton, Wm. Jr., & Co. (Steel & Grey Iron Castings, also Operates a Machine Shop), Washington av, c S 25th
 *Wheeler, C. H., Mfg. Co. (Steam Pumps, etc.), Lehigh & N 18th
 *White & Bro. (Brass Fdrs. & Smelters), 1504 E Will
 *Whitecar's, Joseph, Iron Works, 10 Pine
 *Wilbraham-Green Blower Co. (Rotary Blowers, Iron Fdrs., etc.), 2518 Fkd. av
 *Wilfong Bros., 52nd & Gray's av
 *Williams, Wm. D., Jasper & Willard
 *Williamson Bros Co. (Inc.) (Steering Gears, Holsting Engines & Castings, etc.), Aramingo c Cumberland
 *Wirt Electric Co. (Electrical Specialties), 3108 Gtn av
 *Wirt & Knox Mfg. Co. (Hose Reels, etc.), 24 N. 4th
 *Withington, Ralph (Machinist), Oxford & N Hancock
 *Wonderly, Abner H. (Builders' & Upholsterers' Hdwe., etc.), 621 Commerce

*Wood, R. D. & Co. (Cast Iron Pipe, Hydraulic & Gas Works Machy., etc.), 400 Chestnut
 *Wootten & Peckworth (Machinists), 205 Quarry
 *Wright Mfg. Co. (Brass Fdrs. & Finishers), 133 Master
 *Yockel, Chas. & Sons (Machinists, Moulds, etc.), 1220 N Lawrence
 *Yocom, Jas., & Son (Shafting), 145 N 2d
 *Yool & Shlar, 2009 Oxford, Fkd
 *Young & Weinmann, 2642 Mascher
 PHILIPSBURG—*Gowland Mfg. Co.
 PHOENIXVILLE—*Logan Boiler & Machine Co.
 *Madco Foundry & Machine Co.
 *Phoenix Iron Co. (See Phila., Pa.)
 PILLOW—*Snyder, Frank (Iron Fdry. & Machinist)
 PITTSBURG—*Acme Foundry Co., 61st & A. V. Ry
 *Allegheny Steel Co. Works, Brackenridge, Pa.
 *Allen Machine Co., 12th & Diamond sq
 *Aluminum Co. of America, Works, New Kensington
 *American Bridge Co. (Iron, Steel & Brass Castings, also Machine Shops), Frick hldg
 *American Foundry & Construction Co.
 *American Foundry & Pipe Co. (Cast Iron Soil Pipe & Fittings), Park bldg. Works, Penn Station, Pa.
 *American Furnace & Machine Co., Fulton hldg
 *American Locomotive Co., 2101 Beaver av. (See New York City.)
 *American Sewer Pipe Co., Bessemer hldg
 *American Sheet & Tin Plate Co. (Iron, Steel & Brass Castings, all consumed by the Company, also Machine Shops)
 *American Steel Foundries (Steel Castings), 36th & A. V. Railway
 *American Steel & Wire Co., Frick hldg. (See Chicago, Ill.)
 *Anderson-Darragh Co. (Steam Heaters, etc.), 3286 Penn av
 *Axthelm Mfg. Co., 243 3d av
 *Bailey-Farrell Mfg. Co. (Brass Fdrs. & Plumbers' Supplies), 3d av & Ross
 *Baird Machinery Co. (Mach'y), 123 Water
 *Best Mfg. Co. (Iron & Brass Fdrs. & Steam & Rolling Mill Specialties), 25th & A. V. Ry
 *Bonar, James, & Co. (Steam Specialties)
 *Buechele & Davis (Tools, etc.), 4127 Liberty av
 *Byers, A. M., Co. (Wrought Iron Pipe, etc.), 235 Water
 *Cadman, A. W. Mfg. Co. (Brass Fdrs. & Finishers), 2814 Smallman
 *CARLIN'S, THOS. SONS CO.
 *Holsting Engines & Contractors' & Rolling Mill Machinery, 1610 River av (North Side) (See adv. Index, end of book)
 *Carnegie Steel Co. (Steel Car Wheels, etc.), Carnegie hldg
 *Carron, A. M., & Co. (Small Electric Air & Vacuum Pumps, etc.), 220 Penn av
 *Central Car Wheel Co. (Car Wheels), Farmers' Bank hldg. Works, McKees Rocks, Pa.
 *Chaplin-Fulton Mfg. Co. (Brass & Bell Fdrs., Gas Regulators, Ejectors, Injectors, etc.), 28 Penn av
 *Combination Engine Co. (Steam Engines), 3148 Penn av
 *Crescent Electric & Mfg. Co., 24th & Spring av
 *Dilworth, Porter & Co. (Chilled Mill Castings, etc.), 313 6th av
 *Duquesne Steel Foundry Co. (Steel Castings & Machine Shop for Own Use), Arrott bldg. Works, Corapolis, Pa.
 *Early, W. J., & Sons (Ltd.) (Grey Iron Castings), 804 Sarah
 *Empire Machine & Electric Co., 216 3d av
 *Epping-Carpenter Co. (Pumping Machinery & Condensers), 41st & A. V. Ry.
 *Equitable Meter Co. (Gas Meters & Appliances), 439 Water
 *FAWCUS MACHINE CO. (Gears of All Kinds & Special Machy.), 2820 Smallman. (See adv. Index, end of book)
 *Fort Pitt Bridge Works
 *Fort Pitt Forge Co., 2410 Penn
 *Garrison, A., Foundry Co., (Rolling Mill Machy. & Castings, etc.), S 9th & Bingham
 *Gazzam, H. P., Machine Co., 32d & Penn av
 *Gem Mfg. Co. (Flexible Shafts, Boiler Tube Cleaners, Drills, etc.), Spruce nr 33d

*†Goodman Engine & Machine Co. (Engines & Machy.), S 15th & Muriel
 *Gracey, R., & Sons Co., 105 1st av
 *Heppenstall Forge & Knife Co. (Shear Knives, etc.), 47th & A. V. Ry.
 *Heyl & Paterson (Rolling Mill & Coal Mining Machy. & Equipments, etc.)
 *Hunter Saw & Machine Co. (Saw Sharpening Machines, etc.), 57th & Butler
 *†Hydraulic Machine Co. (Rolling Mill Machinery, Steel, Grey Iron & Brass Castings), McCandless av & A. V. Ry.
 *Iron City Brass Foundry Co. (Brass Fdrs.), 5315 Butler
 *†Iron City Sanitary Mfg. Co. (Plumbers' Cast Iron Enameled Ware), 18 Wood
 *Iron City Stamping Co. (Tool & Die Makers & Machinists)
 *Iron City Tool Works (Ltd.) (Machine Tools), 32d & Smallman
 *†Jelley, Geo. A. Foundry Co. (Iron Fdrs.), 2848 Smallman
 *†§Jones & Laughlin Steel Co. (Power Transmitting Machy., etc.)
 *†Kelly, Nicholas & Son (Founders), 1708 Wharton
 *†§Kelly & Jones Co. (Iron & Brass Fdrs., Steam Specialties, Valves, etc.), 135 Water; Works: Greensburg, Pa.
 *§Keystone Bronze Co. (Rolling Mill Castings & Specialties, etc.), 136 39th
 *†Lathwood, Jas. (Iron Fdry.), 22d & Smallman
 *§LAWRENCEVILLE BRONZE CO. (Copper & Bronze Castings for R. R., Mills, etc.), 3046 Penn av. (See adv. index, end of book)
 *†Lewis Foundry & Machine Co. Works, Groveton, Pa.
 *McClintic-Marshall Construction Co. (Steel Structures, etc.)
 *†McConway & Torley Co. (Malleable Iron & Steel Castings & Railroad Specialties, etc.), 48th & A. V. Ry.
 *McGraw Bros. Brass Foundry Co., 134 Home
 *§McKenna Bros. Brass Co. (Brass Fdrs. & Finishers), 1st av & Ross
 *†Mackintosh, Hemphill & Co. (Rolling Mill & Blast Furnace Mach'y., Engines, Iron, Steel & Brass Castings, etc.), ft. of 12th
 *Marshall Bros. (Elevators, etc.), S 21st & Mary
 *†Marshall Foundry Co. (Iron Fdrs., Rolling Mill & Builders' Castings, Ingot Molds, etc.), 28th & Railroad
 *Matthews, James H. & Co. (Stencils, etc.)
 *†§Mesta Machine Co. (Rolling Mill Mach'y., Iron & Steel Castings), Lewis bk. Works, Homestead, Pa.
 *†Milhoiland, J. & J. B., Co. (Engines, etc.), Tunnel & 5th av
 *†Munroe, R. & Sons Mfg. Corp. (Boiler Castings & Boiler Mfrs.), 23d & Smallman
 *†§National Car Wheel Co. (Car Wheels)
 *†§National Tube Co. (Cast, Malleable, Iron & Brass Fittings, Iron & Brass Valves, Cocks, etc.), Frick bldg
 *Newlands Bros., 28th & A. V. R. R.
 *Nuttall, R. D. Co. (Gears & Pinions of All Kinds, etc.), LaFayette & Garrison pl
 *†§Oil Well Supply Co. (Oil & Gas Mill Supplies, Gas Engines, etc.), 215 Water
 *Penna. Blue Print Co. (General Machinists), Park bldg
 *†Pennsylvania Malleable Co. (Steel & Malleable Iron Castings & Car Couplers, etc.), Farmers' Bank bldg. Works, McKees Rocks, Pa.
 *PENNSYLVANIA STEEL PULLEY CO. (Pressed Steel Pulleys, etc.), North Side. (See adv. index, end of book)
 *Pfaff, Frank, 6947 Susquehanna
 *†Phillips Mine & Mill Supply Co. (Coke & Coal Equipments), 2227 Jane
 *†Phillips & McLaren (Heavy Castings & Rolling Mill Mach'y., etc.), 24th & Smallman
 *†§Phoenix Steel Co. (Ltd.), Putnam & P. R. R.
 *†Pittsburg Brake Shoe Co. (Brake Shoes, etc.), Farmers' Bank bldg
 *§Pittsburg Brass Mfg. Co. (Plumbers' Brass Specialties & Brass & Bronze Castings, etc.), 3153 Penn av
 *Pittsburg Electrical & Machine Works (Electric Switches, etc.), Arrott Power bldg
 *Pittsburg Forge & Iron Co. (Machine Shop Connected with Works)
 *†Pittsburg Foundry & Machine Co. (Fdrs. & Machinists), 31st & Liberty av

*†§PITTSBURGH GAGE & SUPPLY Co. (Iron & Brass Founders, Machinists & Steam Specialties), 30th & Liberty av. (See adv. index, end of book)
 *†Pittsburg Gas Stove & Mfg. Co. (Gas Stoves, etc.), 23rd & Josephine
 *Pittsburg Instrument & Machine Co., 627 Fountain
 *†Pittsburg Malleable Iron Co., 34th & Smallman
 *†Pittsburg Mfg. Co. (Bolts, etc.)
 *†Pittsburg Piping & Equipment Co. (Brass & Bronze Fdrs. & High Pressure Pipe Fittings, etc.), 3422 Smallman
 *†§Pittsburg Plate Glass Co., Frick bldg; Foundry: Ford City, Pa.
 *†Pittsburg Steel Fdry. (Steel Castings & Car Wheel Centers, etc.); Works: Glassport, Pa.
 *†§PITTSBURGH VALVE, FOUNDRY & CONS. CO. (High Pressure Valves & Fittings, Iron & Brass Castings, etc.), 26th & A. V. Ry. (See adv. index, end of book)
 *†§Pittsburg Valve & Fittings Co. (Valves, Fittings, etc.)
 *†§Porter, H. K., Co. (Light Locomotives), Union Bank bldg
 *†Pressed Steel Car Co. (Steel Cars), Farmers' Bank bldg
 *†Ramaley, W. H., & Co. (Gas Stoves, Ranges, etc.), 130 9th
 *†Rees, Jas., & Sons Co. (Steamboat Bldrs.), 18 4th
 *§Reineke-Wilson Co. (Gas & Water Supplies, etc.), 41 Terminal way
 *Renton, Wm. (Cylinder Re-Boring, etc.), 101 Water
 *†Republic Iron & Steel Co. (Grey Iron Castings, all Consumed by the Company; also Machine Shops)
 *Russell, J. C. Shovel Co. (Small Machine Shop for the Company's Own Use)
 *Russell Machine Co., 28th & Spruce Ry.
 *†Scaife Foundry & Machine Co. (Ltd.) (Rolling Mill Machy., etc.), 28th & Smallman
 *†§SCAIFE, WM. B. & SONS (Iron Fdrs. & Structural Steel Construction, etc.), 221 1st av. (See adv. index, end of book)
 *†Seaman Sieeth Co. (Sand & Chilled Rolls), 41st & A. V. Ry.
 *†Simonds Mfg. Co. (Gears, Pinions & Electric Railway Specialties, etc.), 25th & Liberty
 *Sommerfeld Machine & Mfg. Co. (Gears & Glass House Machinery), 220 2d
 *†Springfield Foundry Co. (Iron Fdrs.), 3217 Smallman
 *§Standard Bronze Co., ft. of 14th
 *†§Standard Sanitary Mfg. Co. (Sanitary Enameled Iron Goods, etc.), Bessemer bldg
 *†Standard Scale & Supply Co. (Standard Scales, etc.), 243 Water; Works, Beaver Falls, Pa.
 *†Standard Steel Car Co. (Steel Cars, etc.), Frick bldg; Works: Butler, Pa.
 *†Steel Car Forge Co. (Steel Cars, etc.), Frick bldg. Annex. Works, Ellwood City, Pa.
 *†Sterling Steel Foundry Co. (Steel Castings, Car Couplers, etc.), Frick bldg
 *†Sterritt-Thomas Foundry Co. (Fdrs. & Machinists, Rolling Mill & Mach'y Castings, etc.), 32d & Smallman
 *Stoner, Thaw & Co. (Filters, etc.), 1200 W. Carson
 *Swain & Angel (Steam Engines), 3105 Smallman
 *Tate, Jones & Co. (Machinists & Fuel Gas Burners, Gas Engines, etc.), Empire bldg
 *Tranter Mfg. Co. (Valve Mfrs., etc.)
 *Trethewey, Samuel & Co., (Ltd.), (Blanking Dies, Steam Hammers, etc.), 47th & Plummer
 *Union Elevator Co. (Elevators), 302 Gist
 *†Union Foundry & Machine Co. (Rolling Mill & Pipe & Tube Mill Machinery), 224 W. Carson
 *†Union Steel Casting Co. (Steel Castings & Annealing Boxes)
 *†Union Switch & Signal Co. (R. R. Specialties), Works, Swissvale, Pa.
 *†§United Engineering & Foundry Co. (Rolling Mill Machinery), Farmers Bank bldg
 *†United States Cast Iron Pipe & Foundry Co., Murrill bldg. (See New York)
 *†United States Sanitary Mfg. Co. (Plumbers' Cast Iron Enameled Ware), Arrott bldg
 *†Velte Foundry & Machine Co. (Grey Iron & Steel Castings, also Machine Shop)

*Vierling Machine Co., 225 1st av
 *†Westinghouse Air Brake Co. (Car Brakes, etc.), Works, Wilmerding, Pa.
 *†§WESTINGHOUSE ELECTRIC & Mfg. Co. (Electrical Machy., etc.), Works, East Pittsburg (See adv. index, end of book)
 *†§WESTINGHOUSE MACHINE CO., The (Engines, etc.), Works, East Pittsburg, Pa.
 *Wilhelm, Robt. W. (Dies, etc.), 3d & Liberty avs
 *Williams Gauge Co. (Gauges, Pumps, Governors, etc.), 543 4th av
 *†§Wilson-Snyder Mfg. Co. (Steam Pumps & Air Compressors), Ross & Water
 *Wolverine Supply & Mfg. Co., Imperial Power bldg
 *†YAGLE FOUNDRY & MACHINE Co. (Ltd.), (Founders & Machinists), 400 32d. (See adv. index, end of book)
 PITTSTON—*†§Delahunty Dyeing Machine Co. (Dyeing Machines, etc.)
 *†§Exeter Machine Works (Coal Handling Mach'y. & Hoisting Engines, etc.)
 *Huntley, J. G. (Mine Drills, etc.)
 *Muirhead, John & Son (Drills, etc.)
 *†Pittston Stove Co. (Stoves)
 *Telescope Mine Machinery Co. (Mine Drills, etc.)
 *†§Vulcan Iron Works
 PLYMOUTH—*Bittenbender, Geo. H. (Mine Drills)
 *†Howell's Mining Drill Co. (Coal & Rock Drills)
 *Moss, George A. (Mining Drills, etc.)
 *Reese, Sephaniah (Mach'y. & Tool Works)
 POMEROY—*Phillips, M. T. (Machinist & Mach'y., etc.)
 PORT CARBON—*†§Franklin Iron Works (Wm. A. Cather, Prop.)
 PORTLAND—†Pearson, Leroy
 POTTSTOWN—*†Colebrookdale Iron Co. (Sad Irons, etc.)
 *Ellis Keystone Agri. Works (Threshers, Feed Mills, etc.)
 *†Flagg, Stanley G., & Co. (see Phila.)
 *†Keystone Foundry Co. (Grey Iron Castings, Wm. H. Ings)
 *McClintic-Marshall Construction Co. (Steel Structures, etc.)
 †March-Brownback Stove Co. (Heaters, Furnaces, Stoves, etc.)
 *§Mayo Damper Co. (Dampers, Motor Cycles, Aluminum, Brass, Bronze Castings)
 *§Merkel-Light Motor Co. (Motor Cycles, Bicycle Castings, etc.)
 *§Mitchell & Van Meter Co. (see Phila.)
 *§Saylor, John R. (Machinery)
 *Shoemaker, Lewis L. & Co. (Steel Structural Work)
 *Welser, Manassa D. (Ornamental iron Work)
 POTTSVILLE—*†Phila. & Reading Coal & Iron Co.
 †Pottsville Foundry & Stove Co. (Stoves, etc.)
 *§Zweibel, Edward
 PUNXSUTAWNEY—*†§Porter, G. W., & Son
 *†§Punxsutawney Fdry. & Machine Co.
 QUAKERTOWN—*Nadig, L. F.
 †Roberts, Wm. & Co. (Stoves)
 QUINCY—*Quincy Engine Co. (Gasoline Engines)
 RADNOR—*†§Righter, Geo. W.
 RANKIN STATION—*McClintic-Marshall Construction Co. (Steel Structures, etc.)
 READING—*American Die & Tool Co. (Punches, Dies & Lawn Mowers)
 *American Iron & Steel Mfg. Co. (Sternberg Branch). (See Lebanon, Pa.)
 *Boss Knitting Machine Works (Textile Mach'y)
 *Carpenter Steel Co. (Machine Shop Attached to Works)
 *†§Chantrell Tool Co. (Hardware Specialties)
 *§Connard, Henry (Brass Fdr. & Finisher)
 *§Crescent Brass Mfg. Co. (Inc.)
 *§Dick Bros.
 †Drummond Iron Works (Cast Iron Pipe)
 *§Excelsior Brass Works (Brass Castings & Francis, G. W. Brass Specialties, etc.)
 *Franklin Specialty Co. (Hdwe. Specialties)
 *Globe Lawn Mower & Mfg. Co. (Lawn Mowers, etc.)
 *†§Gray Iron Foundry Co. (Grey Iron & Brass Castings, etc.)
 *Greth Machine Works (Inc.) (Machinists)
 *Keiser Mfg. Co. (Sheep Shears, etc.)
 *†King Machine Works (Expansion Joints, etc.)
 *Kline & Co.
 *†Mohn, W. D., & Co.
 †Mt. Penn Stove Works (Stoves, etc.)
 *†National Brass & Iron Works (Art Metal Goods)

- *†Orr & Sembower (Inc.) (Steam & Hoisting Engines, etc.)
 *†Penn Hardware Co. (Builders' Hardware, etc.)
 *†P. & R. R. Shops
 †Prizer-Painter Stove & Heater Co. (Stoves, Heaters, etc.)
 *†Reading Car Wheel Co. (Car Wheels, etc.)
 (See Buffalo, N. Y.)
***READING CRANE & HOIST WORKS** (Cranes, Hoists, etc.), (See adv. index, end of book)
 *†Reading Hardware Co. (Builders' Hardware & Specialties)
 *†Reading Iron Co. (Rolling Mills, Iron Fdrs. & Machinists, Rolling Mill Engines & Sugar Mach'y., etc.)
 *†Reading Radiator Co. (Radiators, etc.)
 *†Reading Scale & Machine Co. (Cast Iron Soil Pipe & Fittings, etc.)
 *Reading Standard Co. (Bicycles, etc.)
 †Reading Steel Casting Co. (Steel Castings, etc.)
 †Reading Stove Works (Stoves, Ranges & Heaters, etc.)
 *Remppis, Wm. F. Co. (Builders' Iron & Machinists)
 *Selbert, Jno. H.
***SPEIDEL, JOHN G. (Hand Hoists & Cranes.** (See adv. index, end of book)
 *†Textile Machine Works (Textile Machy & Grey Iron Castings)
 *Tragle Mfg. Co. (Files, etc.)
 *Xander Machine & Supply Co.
 *Zacharias, E. H.
REBERSBURG—†Gramley, Clark McC.
REBUCK—†Fisher, W. H.
RENFREW—*Price Bros.
RENOVO—*†Penna. R. R. Shops
REYNOLDSVILLE—*†Herpel Bros.
RHEEMS—*Grove, Isaac.
RICES LANDING—*Young, W. A.
RICHFIELD—†Shrauder, W. B.
RIDGWAY—*†Ridgway Dynamo & Engine Co. (Dynamos, Engines, etc.)
 *†Ridgway Machine Co.
 *†Ridgway Mfg. Co. (Iron & Brass Fdrs., Dry Kilns, Steam Engines, etc.)
RITTERSVILLE—*Knauss, Geo. L. (Machinist)
RIXFORD—*Lilley, Arthur
ROARING SPRING—*†Brown, John I.
ROCHESTER—†Olive Stove Works (Stoves)
ROYERSFORD—†Buckwalter Stove Co. (Stoves & Furnaces)
 †Floyd-Wells Co. (Stoves, Furnaces, etc.)
 †Grander Stove Co. (Stoves, Furnaces, etc.)
 *Keystone Meter Co. (Gas Meters, etc.)
 *Keystone Structural Co. (Steel Structural Work)
 *†Royersford Foundry & Machine Co. (Punching & Shearing Mach'y.)
SAINT CLAIR—*†Quirin, John, & Bro.
SAINT MARYS—*†Elk Engineering Works.
 *†Kaul, J. & A.
 *†Pittsburg, Shawmut & Northern R. R. Shops
SALFORDSVILLE—*Weldner, Jacob K.
SALONA—†Esenwine, Geo. W. (Est. of).
SAXTON—*†Huntington & Broad Top R. R. Shops
SAYRE—*†Cayuta Mfg. Co. (Fire Hydrants, Valves, etc.)
 *†National Car Wheel Co. (See Pittsburgh, Pa.)
 *Sayer Stamping Co.
SCOTTDALÉ—*†Scottdale Foundry & Machine Co. (Steam Engines & Mining Machy.)
 *†Scottdale Foundry & Machine Co. (Steam Engines & Mining Mach'y.)
 *†United States Cast Iron Pipe & Foundry Co. (See New York City)
SCRANTON—*†**ALLIS-CHALMERS CO.** (See Milwaukee, Wis.)
 *†American Locomotive Co. (Locomotives). (See New York City)
 *†American Safety Lamp & Mine Supply Co.
 *†Barker, Samuel G. & Son (Track Scales, Machinery & Builders' Castings, etc.)
 *†Delaware & Hudson Co.
 *†D., L. & W. R. R. Shops.
 *†Erle R. R. Shops.
 *†Everhart Brass Works (Brass Goods & Brass Castings)
 *†Finch Mfg. Co. (Iron Fdrs. & Steam Engines, etc.)
 †Hughes Bros. (Lamps & Brass & Comp. Castings)
 *†McClave-Brooks Co. (Mechanical Stokers, Grate Bars, Iron & Brass Castings, etc.)
 *Long Mfg. Co. (Mine Lamps, etc.)
 *Mills & O'Toole Machine Co.
 *†O'Malley Mfg. Co. (Brass Goods)
 *†Pearce, Chas. W. (Iron & Brass Castings)
 *†Railway Steel Spring Co. (See New York City)
 *Scott, C. B. (Mine Supplies, etc.)
 *Scranton Axle Works (Axles, etc.)
 *Scranton Bolt & Nut Co. (Machine Shop Connected with Works)
 *†Scranton Machine Works (General Fdrs. & Machinists)
 *†Scranton Steam Pump Co. (Iron & Brass Fdrs. & Steam Pumps)
 †Scranton Stove Works (Stoves)
 *†Scranton Supply & Machine Co.
 *Spencer Heater Co. (Furnaces, Heaters, etc.)
SELLERSVILLE—*U. S. Gauge Co. (Vacuum Gauges)
SHAMOKIN—*†Mullen, John & Son (Iron Fdrs. & Engines, Pumps, Mining Machinery, etc.)
SHARON—†American Steel Foundries
 *Damascus Brake Beam Co. (Brake Beams & Railroad Specialties). (See Cleveland, O.)
 *†National Malleable Castings Co. (See Cleveland, O.)
 *†Sharon Foundry Co. (Steel Castings & Machine Work)
***SHARON STEEL HOOP CO.** (Machine Shop for Use of the Company). (See adv. index, end of book)
 *†Shenango Machine Co. (Iron Fdrs. & Machinists)
SHARPSBURG—*†Moorhead, Bro. & Co. (Inc.) (Iron Pipes, etc.)
SHARPSVILLE—*†Ingalls, D. R.
 *†West, Thos. D. Foundry Co. (Iron Fdrs., etc.)
SHEFFIELD—*Mainwaring & Havens etc.)
SHIELDS—*†Edgeworth Machine Co. (Machinists, etc.)
SHILLINGTON—*Miller, Wm. W.
SHIPPENSBURG—*Davidson, George
 *†Domestic Engine & Pump Co. (Gasoline Engines, Pumps, etc.)
SHOENERSVILLE—*†Lazarus, J. R. & Bro.
SINKING SPRING—†Manufacturers' Foundry Co.
SLATINGTON—*†Slatington Foundry, Machine & Boiler Works (Grey Iron Castings, Mine & Quarry Repairs, etc.)
SMITHFIELD—†Moore Foundry Co.
SNYDERSVILLE—*†Marsh, E. B. Bro. & Co. (Iron Fdrs., Machinists, Plows, etc.)
SOMERSET—*†Highland Foundry & Machine Co.
SOUTH BETHLEHEM—*†Bethlehem Fdry. & Machine Co. (Machine Tools, etc.)
 *†Bethlehem Steel Co. (Rolling Mill, Special Machy. & Castings, etc.)
SPRING CITY—†Keystone Stove Foundry (Stoves, etc.)
 *Penna. Shafting Co. (Polished Steel Shafting)
 †Yeager-Hunter Spring City Stove Works (Stove Mfrs.)
STEELTON—*†Penna Steel Co. (Steel Castings, Railroad Frogs, Switches, Crossings & Forgings, etc.), Main Office: Phila., Pa.
STOWE—*†Flagg, Stanley G. & Co. (See Phila., Pa.)
STROUDSBURG—*†Marsh, E. B. Bro. & Co.
 *†Strodsburg Engine Works (Hoisting Engines, etc.)
 *Tanite Co. (Emery Wheels, etc.)
SUNBURY—*†Keystone Machine Works
SWALES—†Beers, J. L. & Sons
 †Jamison, I. M.
SWEDELAND—*†Hecksher, Richard & Sons Co.
SWISSVALE—*†Union Switch & Signal Co. (Railroad Specialties). (See Pittsburgh, Pa.)
TAMAQUA—*†Beddall Bros.
 *†Tamaqua Mfg. Co. (Iron Fdrs. & Ore Washing & Coal Mining Machy.)
 *†Vulcan Iron Works
TARENTUM—*Tarentum Machine Co.
TATAMY—*†Messinger Mfg. Co. (Agl. Impts., Threshers, Planters, Grain Cleaning Machinery)
TIDIOUTE—*Grettenberger, Fred
TIONA—*Norris, W. O. (Oil Well Tools, etc.)
TITUSVILLE—*†American Radiator Co. (See Chicago, Ill.)
 †Burgess, Chas. (Steel Castings & Steel Mfr.)
 *†Titusville Forge Co. (Iron Fdrs., Machinists & Forgings)
 *†Titusville Iron Co. (Steam Engines, etc.)
 *†Young, E. R. & Sons (Engines, etc.)
TOPTON—*†Topton Foundry & Machine Co.
TOWANDA—*†Humphrey Mfg. Co. (Iron Fdrs. & Machinists)
TRAFFORD CITY—Westinghouse Foundry Co.
TROY—*†Troy Engine & Machine Co. (Jno. A. Parsons, Prop.). (Engines, etc.)
TUNKHANNOCK—*†Avery, F. P.
TYRONE—*†Burley Heater Co. (Grey Iron Castings, Heaters, etc.)
 *†Stine, J. C., Co. (Haulage Engines, Mine Fans, Incline Drums, etc.)
UNION CITY—*†Industrial Iron Works
UNION FURNACE—*†Union Furnace Mfg. Co. (Hot Air Registers, Shovels, Rakes, Hoes, etc.)
UNIONTOWN—*†American Brake Shoe & Foundry Co. (See Mahwah, N. J.)
 *Evans Mould & Machine Co.
 *†McCrum-Howell Co. (Hot Air Furnaces, Radiators & Heating Apparatus, etc.)
 Main office, New York
 †Miller Foundry Co.
 †Union Foundry (Andrew D. Jaquett, Prop.)
VANDERGRIFT—*†United Engineering & Foundry Co. (See Pittsburg, Pa.)
VERONA—*†General Castings Co. (Steel Castings)
 *Kowalsky, B. J. Engine Co.
WANAMAKERS—†Klingman, L. J.
WARREN—*†Allegany Foundry Co. (Grey Iron & Brass Fdrs. & Semi-Steel Castings & Machinists, etc.)
 *†Barnhardt & Davis
 †Bashlin Co. (Brass Fdrs. & Valves, etc.)
 *†Gisholt Machine Co. (Machine Tools, Vertical & Horizontal Boring Mills, Turret Lathes, Brass & Iron Fdrs.)
 *Hammond Iron Works (Boilers & Machinists, etc.)
 *†Jacobson Machine Mfg. Co. (Air Compressors, Power Transmitting Machinery, Vices, Clutches, etc.)
 *†Struthers-Well Co. (Gas Engines, Boilers, etc.)
 *Warren Axe & Tool Co. (Edge Tools, etc.)
 *Warren Steel Car Works (Steel Cars, etc.)
WASHINGTON—*Chapman Sucker Rod Co. (Sucker Rods, etc.)
 *Gardner Convertible Steam & Gas Engine Co.
 *†Northrup, B. D.
 *Rose, G. W.
 †Washington Foundry & Mfg. Co.
 †Zahniser Bros. & Sten (Machinists)
WATSONTOWN—†Jones, J. W.
WAYNE—Wayne Iron Works (See Phila., Pa.)
WAYNESBORO—*†Emmert Mfg. Co. (Vices, etc.)
 *†Frick Co. (Steam & Traction Engines, Ice Machinery & Agl. Impls, etc.)
 *†Geiser Mfg. Co. (Steam & Traction Engines, Agl. Impls., etc.)
 *†Landis Machine Co. (Tool Grinders, etc.)
 Victor Tool Co. (Machine Tools, etc.)
WAYNESBURG—*Zahneiser Bros. (Oil & Gas Well Tools, etc.)
WEATHERLY—*†Weatherly Foundry & Machine Co. (Grey Iron Castings, Railroad, etc.)
WEST CHESTER—*Dairy Specialty Co. (Dairy Machinery)
 *Hoopes, John (Dairy Machy., etc.)
 *Mayer & Eachus
 *Price, Jos. T.
 *†Sharpels Separator Co. (Dairy Machinery & Supplies, etc.)
WEST NEWTON—*†Moore & Butts
 *Neff, H. S. & Co.
 *†United States Radiator & Boiler Co. (Radiators, etc.)
WEST SALISBURG—*†Knecht, M. & Sons
WHEATLAND—†Sharon Foundry Co. (Rolling Mill Castings, Ingot Molds, etc.)
WHITE HAVEN—*Wallace, Saml. (Est. of)
WILKES-BARRE—†Eagle Iron Works
 *†Gates Foundry Co.
 *Johnson, Robt. (Machinist)
 *Le Grand Mine Drill Works (Steam Mine Drills)
 *MacCullum, John
 *Nicholson, W. H. & Co. (Expanding Mandrels, Compression & Flange Couplings, etc.)
 *Royer & Zweifel (Brass Fdrs., etc.)
 *†Sheldon Axle Co. (Carriage Axles, etc.)
 *†Shelley, George & Son
 *†Vulcan Iron Works (Iron Fdrs., Engines, Mining Machy., etc.)
 *†Wilkes-Barre Iron Mfg. Co.
WILLIAMSPORT—*†American Woodworking Machinery Co. (See Rochester, N. Y.)
 *†Darling Pump & Mfg. Co. (Machinists & Iron & Brass Fdrs., etc.)
 Foucart, Jno. B. (Saws, Machines, Knives, etc.)
 *†Hermance Machine Co. (Woodworking Machinery)
 *Keeler, E. Co. (Machinists & Boilermakers)
 *Link, Jas. H. Machinery Co. (Saw Mill Machy., etc.)
 *†Lycoming Fdry. & Machine Co. (Sewing Machines, etc.)
 *Moltz, Jacob J.

*†National Foundry Mfg. & Supply Co. (Power Transmitting Machinery & Grey Iron Castings)
 *†Rothfuss-Howard Iron Works (Engines & Saw Mill Machinery)
 †Rundlo, Nelson L.
 *†Shepherd Engineering Co. (Steam Engine)
 *†Sweet's Steel Co. (Steel Castings & Machine Shop)
 *†United States Machine Co. (Woodworking Machinery & Iron & Brass Castings)
 *†Valley Iron Works (Power Transmitting Machinery & Steam Engines, etc.)
 *Villinger, W. E. (Dies, etc.)
 *†Williamsport Gas Engine Co. (Gas & Gasoline Engines)
 *Williamsport Iron & Nail Co.
 *†Williamsport Radiator Co. (Radiators, etc.)
 †Williamsport Staple Co. (Hardware & Harness Specialties)
 WILMERDING—*†Westinghouse Air Brake Co.
 *†Westinghouse Traction Brake Co. (Electric Car Brakes, etc.)
 WINDOM—*Kauffman, Harry M.
 WOMELSDROP—†Beyerle, Wm.
 WRIGHTSVILLE—*Dissinger, C. H. A. & Bro. (Gasoline Engines, etc.)
 †Riverside Foundry Co.
 *†Susquehanna Casting Co. (Light Castings & Hardware Specialties)
 *†Wrightsville Hardware Co. (Builders' & Hardware, etc.)
 WYNDMOOR—*†Nelson Valve Co. (Valve Mfrs.)
 WYOMING—*Eagan, Jas. (Mine Drills, etc.)
 YORK—*†Bromell, Schmidt & Steacy Co. (Heating Apparatus, Ranges, Kilns & Grey Iron Castings, etc.)
 *Burrows Mfg. Co. (Valves, Regulators, etc.)
 *†Eyster, Weiser & Co. (Water Wheels Powder Mill Machy. & Car Castings)
 *†Farquhar, A. B. Co. Ltd., (Agri. Impls., Traction & Steam Engines, etc.)
 *Flinchbaugh Mfg. Co. (Gas & Gasoline Engines, etc.)
 *Graybill, John E. & Co., Inc. (Electrical Supplies)
 *†Hench & Dromgold Co., Inc. (Agri. Impls., Grain Drills, Plows, Cultivators, Harrows, etc.)
 *Henry, Millard & Henry (Gas & Gasoline Engines, etc.)
 †Keystone Farm Machine Co. (Agri. Impls., Plows, Cultivators)
 *Mottet, Geo. F. & Sons (Steam Engines)
 †Penna. Foundry Co. (Grey Iron Castings, etc.)
 *Root, B. M. Co. (Woodworking Machy.)
 *Ruth Machine Co. (Knitting Machines)
 *†Smith, S. Morgan Co. (Turbines, etc.)
 *†Smyser, Royer, Co. (Grey Iron & Builders' Castings, etc.)
 *†Spangler Mfg. Co. (Agri. Impls., Grain Drills, Harrows, Planters, Saw Mills, etc.)
 *Wiest, Michael & Son
 *York Bridge Co. (Steel Bridges, Steel Derricks, etc.)
 *York Electric & Machine Co. (Incandescent Lamp Making & Special Machy.)
 *†York Foundry & Machine Co.
 *†York Mfg. Co. (Ice & Refrigerator Machinery, Corliss Engines & Castings, etc.)
 *†York Safe & Lock Co.
 *York Wagon Gear Co. (Ltd.) (Wagon Gears)
 YOUNGS—*†Graver, Geo. A. (Iron Fdry. & Machinist)
 YOUNGSVILLE—*Sagerdahl, J. A.
 ZELIENOPLE—*†Herman Pneumatic Machine Co. (Foundry Molding Machines, etc.)
 *†Iron City Sanitary Mfg. Co. (See Pittsburgh, Pa.)
 *†Specialty Foundry Co.

RHODE ISLAND.

BRIDGETON—*†Hopkins Machine Wks (Inc.) (Textile Machinery)
 BRISTOL—*†Herreshoff Mfg. Co. (Yacht Bldrs)
 CENTRAL FALLS—*Mossberg Wrench Co. (Special Machinery, Wrenches, etc.)
 †Newell, F. E. (Brass Fdry.)
 EAST GREENWICH—*Nock, F. S. (Engine
 *Arnold, Jas. E. & Power Boat Builder)
 HILLS GROVE—†Rhode Island Malleable Iron Works (Malleable Iron Castings)
 HOPE VALLEY—*†Nichols & Langworthy Machine Co. (Steam Engines, Printing Presses, etc.)
 NEWPORT—*Burnham, Gilbert H. (Machinists)
 *†Newport Engineering Works

*†Newport Foundry & Machine Co.
 *Owen, Thos. G. (Machinist)
 *†Stedman, P. H. (Brass Fdry. & Finisher)
 PAWTUCKET—*Blackstone Machine Co.
 *Carpenter, J. M. Tap & Die Co. (Taps & Dies)
 *Cole Bros. (Textile Machy., etc.)
 *Collins Bros. Machine Co. (Machinists)
 *Collyer Machine Co. (Engineers & Machinists)
 *Dawson, A. (Tipping Machines)
 *Easton & Burnham Machine Co. (Textile Machinery, Spindles & Machinists)
 *†Fales & Jenks Machine Co. (Machine Tools, etc.)
 *Haskell Wm. H. Mfg. Co. (Machinists, Bolts, Nuts, etc.)
 *Hemphill Mfg. Co. (Knitting Machinery)
 *†Howard & Bullough American Machine Co. (Cotton Mach'y). (See Boston, Mass.)
 *†Jenckes, E. Mfg. Co. (Knitting Machinery, etc.)
 †Jenkinson, Jno. (Brass Founder)
 *Luther, C. A., & Co. (Textile Machy.)
 *McKenna, Frank & Co. (Brass Founders)
 *Moncrief, James A.
 *Narangansett Machine Co. (Machinery & Gymnasium Supplies)
 *New England Machine & Electric Co.
 *Pawtucket Mfg. Co. (Mach., Bolts, Nuts, etc.)
 *Payne, Geo. W. Co. (Textile Machy.)
 *†Potter & Johnston Machine Co. (Machine Tools, etc.)
 *Slocum, Wm. H., Co. (Machy., Forgings, etc.)
 *†White, J. S. Co. (Iron Fdrs. & Machinists)

PROVIDENCE—*Adams Bros., 224 Eddy
 *†Allen Fire Dept. Supply Co., 171 Eddy
 *American Ball Co. (Steel Balls, etc.), Eagle & Kinsley av
 *†American Locomotive Co. (Locomotives), (See New York)
 *†American Ship Windlass Co. (Windlasses, Winches, Steam Towing Machines, Castings, etc.)
 *†American & British Mfg. Co. (Corliss Engines, Driving Wheels, etc.)
 *Angell, Chas. E. (Machinist), 21 Eddy
 †Barstow Stove Co. (Stoves, etc.)
 *Beaman & Smith Co. (Machine Tools)
 *Blaisdell, S. S. Machine Co., 130 Orange
 *Bragg, Jno. I. (Wool, Combs, etc.), 24 Atwood
 *†Brown & Sharpe Mfg. Co. (Machine Tools, Machinists' Small Tools & Grey Iron Castings)
 *†Builders' Iron Foundry (Grinding Machinery & Iron & Heavy Bronze Castings)
 *Bullard Automatic Wrench Co. (Inc.) (Wrenches, etc.)
 †Carpenter, H. T. & Co., 157 Orange
 †Calvin Fdry Co. (Castings of All Kinds)
 *†Crompton & Knowles Loom Works (Textile Mach'y.). (See Worcester, Mass.)
 *Cruikshank Engine Co. (Stationary & Yacht Engines), 286 Dyer
 *D & W FUSE CO. (See adv. index, end of book)
 *Dart, E. M. Mfg. Co. (Unions, Couplings, etc.)
 *Diamond Machine Co. (Grinding Machinery), 9 Coddling
 *Excelsior Steam Engine & Machine Co., 30 Friendship
 *Field, Chas. H. (Tool Grinders & Polishers), 112 Point
 *†Franklin Machine Co. (Cotton Machinery), 189 Charles
 †Fuller, Frederic (Church Bells & Bronze Castings), 604 S. Main
 *†Fuller Iron Works (Cast Iron Pipe & Machy. Castings), 40 Tockwotton
 †General Fire Extinguisher Co. (Cast Iron Pipe & Fittings, Valves, Steam Goods, etc.)
 †Gorman Mfg. Co. (Brass & Bronze Fdrs., etc.)
 *Graham Mfg. Co. (Vises, Drill Speeders, etc.)
 *Harris, W. A., Steam Engine Co. (Corliss Engines)
 *Heathcote, Jno. & Son (Woollen Machinery), 212 Eddy
 *Holt, W. H., Mfg. Co. (Special Machinery, etc.), 7 Eddy
 *Hope, Jno., & Sons, Engraving & Mfg. Co. (Engraving Machy.), Mashapaug & Hughes, Wm. Co., Bought st. Elmwood
 *†Iroquois Machine Co. (Tool Grinders, Bearings, etc.)

*Langeller Mfg. Co. (Special Machy.)
 *McWilliams, Thomas, 237 Eddy
 *Mann, Chas. A., 166 Doyle av
 *Mechanical Accountant Co. (Adding Machines, etc.)
 †Miller Iron Co. (Castings, etc.), 516 Harris av.
 *†New England Butt Co. (Braiding Machinery etc.), 304 Pearl
 *Nicholson File Co. (Files, Rasps, etc.)
 *Parkinson, Edw. Mfg. Co. (Machinist), 84 Sprague
 †Providence Art Metal Co., 137 Clifford
 †Providence Brass Fdry. & Machine Co. (Brass & Bronze Castings)
 *Providence Engineering Works (Corliss & Pumping Engines, etc.)
 *†Providence Machine Co. (Textile Machinery)
 *Providence Mfg. & Tool Co. (Tools, etc.), 17 Warren
 *Providence Steam Trap Co. (Steam Traps, etc.), 16 Diamond
 †Providence Steel & Iron Co.
 *Rhode Island Braiding Machine Co. (Textile Machinery)
 †Rhode Island Brass Foundry (Brass & Bronze Castings)
 *Rhode Island Elevator & Machine Co. (Elevators & Machinery), 12 Beverly
 *Rhode Island Machine Co. (Tools, etc.)
 *Rhode Island Tool Co. (Tools, Nuts, etc.)
 *Richards, Isaac P. Co. (Punches, Dies, etc.)
 †Rogers, Wm., Silver Co. (Silverware)
 *Rushton, Carroll Co. (Textile Machinery), 10 Eliza
 *Scholfield, Jos. J. (Gears & Pulleys, etc.), 282 Dyer
 *Schott Bros. (Button Machinery)
 *Scott, Henry L. & Co. (Machinists), 227 Eddy
 †Shirley, Jno. R. & Sons (Gas Fixtures)
 *Slocumb, J. T. Co. (Machine Tools)
 *Standard Machinery Co. (Presses, Drops, Rolling Mills, Draw Benches, etc.)
 *†Textile Finishing Machinery Co. (Textile Machinery, 83 Exchange pl
 *Thomas & Lowe Machinery Co., 68 W Exchange pl
 *Thurston Mfg. Co. (Jewellers' Machinery)
 *†Tower, James H. (Iron Work of all kinds), 46 Borden
 *U. S. Bobbin & Shuttle Co. (Textile Machinery)
 *Universal Winding Co. (Winding Machines)
 *Wheelwright Filler & Mfg. Co. (Paper Machinery, etc.)
 †White-Stillman Foundry Co. (Brass Fdrs.),
 *Winsor, Ira & Co., 169 Dorrance
 *Winsor & Jerauld Mfg. Co. (Textile Machinery), 223 Harrison

RIVER POINT—†Brayton, L. Foundry Co.
 VALLEY FALLS—*Hindley Mfg. Co. (Castings, Keys, etc.)
 †Valley Falls Iron Foundry
 WARREN—*Potter, Collamore & Co.
 *†Textile Finishing Machinery Co. (See Providence, R. I.)
 WESTERLY—*†Cottrell, C. B. & Sons Co. (Printing Presses, etc.)
 *Kenyon Machine & Automobile Repairing Co.
 *Willcox, Donahue & Co. (Stone Tools, etc.)
 WOONSOCKET—*American Wringer Co. (See New York City)
 *Knight, Geo. C. (Machinist)
 *Taft-Pierce Mfg. Co.
 *†Woonsocket Machine & Press Co. (Textile Machy.)
 *Woonsocket Napping Machinery Co. (Textile Machy.)

SOUTH CAROLINA.

ANDERSON—†Anderson Mach. & Fdry. Co.
 BLACKSBURG—*†Blacksburg Machine & Iron Works
 CHARLESTON—*†Charleston Iron Works (Machinery, Engines, Rollers, etc.)
 *†Riley, Jno. F. Fdry. & Machine Works (Brass & Iron Castings, Forgings, Machinists, etc.)
 *†Riverside Iron Works (Machinists, Fdrs., Shipsmiths, etc.)
 *†Valk & Murdoch Iron Wks. (Iron Fdrs., Machinists & Machinery)
 †Virginia-Carolina Chemical Co. Fdy. Department)
 CHERAW—*†Pee Dee Iron Works
 CHESTER—*Chester Machine & Lbr. Co.
 COLUMBIA—*†Columbia Machine & Iron Works
 †Palmetto Iron Works (Geo. A. Shields, Prop.)
 *†Willis, J. A. (Steam Engines, etc.)

CONWAY—†Conway Iron Works
 CORNWELL—*McKeown, W. O., & Sons
 DILLON—*Dillon Plow & Novelty Works
 (Plows, etc.)
 FLORENCE—*†Atlantic Coast Line R. R.
 Shops
 GAFFNEY—*†Cherokee Fdy. & Mach. Wks
 GEORGETOWN—*†Atlantic Coast Lumber
 Co.
 GREENVILLE—*†Mountain City Fdry. &
 Machine Works (Inc.)
 LAURENS—*†Eureka Fdry. & Supply Co.
 McCOLL—*Fletcher, John C. (Cotton Plant-
 ers, etc.)
 MARION—†McDuffie, Emerson
 ORANGEBURG—Smoak, J. W.
 ROCK HILL—†Syleau Mfg. Co.
 SALUDA—†Crout, J. M.
 SENECA—*†Seneca Iron Works
 SPARTANBURG—*†Morgan Wood & Iron
 Works
 SUMTER—†Sumter Iron Works
 *†Sumter Machinery Co.
 WALTERBORO—*†Cummings Iron Works &
 Supply Co.

SOUTH DAKOTA.

ABERDEEN—*†Hub City Iron Works
 CANTON—*Ellingson, E. E.
 DEADWOOD—*†Black Hills Mfg. Co.
 DELL RAPIDS—*Sioux Hdw. & Construction
 Co.
 DESMET—†Desmet Stove Co. (Stoves)
 EPIPHANY—*Kersten, M. T. Co.
 LEAD—*†Homestake Mining Co.
 MITCHELL—*†Mitchell Boiler & Machine Co.
 MELLETTE—*Oberle, John
 RAPID CITY—*†Downie-Wright Mfg. Co.
 REDFIELD—*†Norbeck & Nicholson Co. (Iron
 Fdrs. & Machinists)
 SIOUX FALLS—*†Pankow Bros. (Fdrs. &
 Machinists)
 *Sioux Falls Plow Co. (Plows, etc.)
 VALLEY SPRINGS—*Running, C. O.
 WATERTOWN—*Hanten Machine Co.
 *Hess & Ran
 WEBSTER—*Magnus, Wm. (Machinist)
 WOONSOCKET—†Janssen, J. H.
 YANKTON—*Fanslow Bros (Machinists)
 *Veiling, Anton

TENNESSEE.

BRISTOL—*†Dixie Foundry & Machine Wks
 *†Enterprise Foundry & Machine Works
 *†V. & S. W. R. R. Shops
 CHATTANOOGA—*†Acheson Foundry Works
 *†American Brake Shoe & Foundry Co. (See
 Mahwah, N. J.)
 *American Mfg. Co. (Light Hardware,
 etc.)
 *Arithmetical Scale Co. (Computing Scales,
 etc.)
 *Brown, T. W. & Bro.
 †Cahill Iron Works (Iron Fdrs. & Machin-
 ists)
 *Carson Mfg. Co.
 *†Casey & Hedges Mfg. Co. (Cast Iron
 Soil Pipe & Fittings, Boiler Fronts &
 Castings, Grate Bars, etc.)
 *†Chattanooga Car & Foundry Co. (Cars,
 Car Wheels, etc.)
 *†Chattanooga Implement & Mfg. Co.
 (Hay Presses, Agl. Impls., etc.)
 *†Chattanooga Machinery Co. (Air Com-
 pressors, Hoists, etc.)
 *†Chattanooga Plow Co. (Plows, Cane Mills,
 etc.)
 *†Chattanooga Roofing & Foundry Co.
 (Iron Fdrs., etc.)
 *Chattanooga Saw Works (Saws, etc.)
 †Chattanooga Stove Co. (Stoves)
 †Eureka Foundry Co. (Iron Fdrs.)
 †Frictionless Metal Co. (Bearings, etc.)
 *†Gibson-White Co. (Stoves & Castings)
 *Gonce Lock & Mfg. Co. (Locks, etc.)
 *†Gustafson Mfg. Co. (Cars, Mine Equip-
 ments, Rollers, etc.)
 †Herron Iron Bedstead Co.
 *Jones, George (Mining Mach'y, etc.)
 *†Lookout Boiler & Mfg. Co. (Grey Iron
 Castings, etc.)
 *McGregor, J. F. & Co. (Hardware Spec-
 ialties, etc.)
 †Moffett, Wm. (Brass Fdry.)
 *†Mountain City Stove & Mfg. Co. (Stoves
 etc.)
 *Nixon Mining Drill Co. (Mining Drills,
 etc.)
 *†Patten Mfg. Co. (Electric & Gasoline
 Hoists, etc.)
 †Price Evans Foundry Co. (Iron & Brass
 Castings, Stoves, etc.)
 *†Ross-Mechan Foundry Co. (Grey & Mal-
 leable Iron Castings, etc.)
 *†Sanders-Newell Plow Co. (Plows, etc.)
 *†Senter Mfg. Co. (Bollers, Mach'y, etc.)

*†Southern Skein & Foundry Co. (Grey
 Iron Castings, Wagon Skeins, Wagon
 Hardware, etc.), Chattanooga, Tenn.
 *Standard Machinery Co. (Machinists &
 Machinery)
 *Star Pea Machine Co.
 *Street Bros. Machine Works
 *Superior Machinery Co. (Hay Presses,
 etc.)
 †Tennessee Stove Works (Stoves, etc.)
 *Tower Mfg. Co. (Hay & Cotton Presses,
 etc.)
 *†U. S. Cast Iron Pipe & Foundry Co. (See
 New York City)
 *Vacuum Dyeing Machine Co.
 †Vibrator Instrument Co.
 *†Volunteer Disc Plow Co. (Plows, etc.)
 *†Walsh & Weldner Boiler Co. (Boiler
 Fronts & Castings, etc.)
 *†Wheland Machine Works (Engines, Saw
 Mill Machinery, etc.)
 †White, Wm., & Sons
 CLARKEVILLE—*†Drane Foundry & Supply
 Co.
 †Patch, A. H. (Corn Shellers, Feed Mills,
 etc.)
 CLEVELAND—*†Hardwick Stove Co.
 (Stoves)
 COOKEVILLE—*Cookeville Machine Shop
 ERIN—*Erin Mfg. Co. (Hay Presses, etc.)
 GALLATIN—*Read, G. D.
 HALLS—*Dawes & Davis
 HARRIMAN—*†Harriman Hoe & Tool Co.
 (Hoes, Tools, etc.)
 *†Harriman Mfg. Co. (Agrl. Impls.,
 Plows, etc.)
 JACKSON—*†Heathcock & Bush Machine Co.
 †I. C. R. R. Shops
 †M. & O. R. R. Shops
 *†Southern Engine & Boiler Works (En-
 gines, Saw Mill Mach'y, etc.)
 †Wells-Jones Plow Co. (Plows, etc.)
 JELLICO—*†Jellico Foundry & Machine Co.
 JOHNSON CITY—*†Johnson City Foundry &
 Machine Works
 KNOXVILLE—*American Spring Motor Co.
 (Electric Motors, etc.)
 *Automatic Valve Grinding Machine Co.
 (Cook Grinding Machines, etc.)
 *Biddle Mfg. Co. (Machinists)
 *†Bowman, W. H. (Iron Fences, etc.)
 *Dempster, Jas. (Machinist)
 *Duncan, John G. Co.
 †Enterprise Machine Works
 †Fair Foundry Co. (Stoves, etc.)
 *†Fulton Co. (Specialties)
 †Hammock Steel Range Co. (Steel Ranges,
 etc.)
 *†Knoxville Foundry & Machine Co.
 *Knoxville Iron Co. (Machine Shop At-
 tached to Works)
 †Lonsdale Foundry Co.
 *Marland, Jno.
 †Nelson, H. O., Iron Works (Iron Fences
 & Castings)
 *†Oliver, Wm. J. (Contractors' Cars, etc.)
 *†Sanford-Day Iron Works (Car Wheels
 & Cars)
 *Savage, W. J. & Co. (Mill Mach'y, etc.)
 *†Scott's Patent Brick Car Co. (Castings,
 Brick Cars, Grate Bars, etc.)
 *†Southern Pipe & Foundry Co.
 †Southern Ry. Shops
 †Tattersall, Jno. (Machinist)
 *Ty-Sa-Man-Machine Co.
 *Wolf, M. L. (Machinist)
 LA GRANGE—†Gaither-Panky Plow Co.
 LAWRENCEBURG—*Lawrenceburg Machine
 Co.
 LENOIR CITY—*†Bass Foundry & Machine
 Co.
 LEWISBURG—*Green, A. J. & Son
 LEXINGTON—*†Lexington Machine Works
 McMINNVILLE—*†Wrightman, D. M., & Son
 MARYVILLE—†Golden Rule Stove Co.
 (Stoves, etc.)
 MEMPHIS—*†American Car & Foundry Co.
 (See St. Louis, Mo.)
 Bironio & Palmer
 *Bodley Wagon Co. (Contractors, Wagons,
 Cars, etc.)
 *Brown, Hinman & Huntington Co., (Agrl.
 Impls., etc.)
 *†Chickasaw Iron Works (Iron Fdrs.,
 Builders' Iron Work & Machinery)
 *Eagle Machine Works (Machinists)
 *†Ellis, Wm. C., & Sons (Agrl. Impls. &
 Mach'y.)
 *†Livermore Foundry & Machine Co.
 (Fdrs. & Machinists)
 *†Memphis Brass Works
 *†Memphis Machine Works (Saw Mill Ma-
 chinery, etc.)
 *Memphis Repair Works
 *Southern Gun, Machine & Model Works
 *Success Brick Machinery Co. (Brick
 Mach'y, etc.)

*Union Iron Wks. (Gas & Gasoline En-
 gines)
 *†Wetter, H. Mfg. Co. (Stoves, Cast Iron
 Soil Pipe, etc.)
 *†White, Jno. & Son (Stoves)
 MIDLAND—*Barnes, A. T.
 NASHVILLE—*†Allen Mfg. Co. (Steel
 Ranges)
 *†Atlas Machine Co.
 *Bouchard, John & Sons Co.
 *Braid Electric Co. (Elec. Specialties)
 *†Cumberland Foundry & Mfg. Co.
 *†Duncan & Co. (Stoves, etc.)
 *Electric Candy Machine Co. (Confection-
 ers' Mach'y.)
 *†Gray & Dudley Hardware Co.
 †Jones & Hopkins Mfg. Co. (Stoves, etc.)
 *Jonte, N. S. (Machinist)
 *†N. C. & St. L. Ry. Shops
 †Napier Iron Works (Inc.)
 †Nashville Machine Co. (Flour Mill Ma-
 chinery)
 *†Phillips & Buttorff Mfg. Co. (Stoves, etc.)
 *Rock City Machine Co. (Machinists)
 *†Stewart & Bruckner Co.
 PULASKI—*†Pulaski Machine Co.
 *West Bros.
 ROCKWOOD—*†Roane Iron Co.
 SHELBYVILLE—*†Kahl, E. H.
 SOUTH PITTSBURG—*†Blacklock Fdry. Co.
 (Sad-Irons, etc.)
 *†Central Fdry. Co. (See New York City)
 †South Pittsburg Foundry Co.
 *†Wetter, H. Mfg. Co. (See Memphis)
 TREZEVANT—*†Hurdle Bros. & Argo
 TROY—†Kanady & Goodman (Stoves, etc.)
 UNION CITY—†Semones & Son

TEXAS.

AMARILLO—*Amarillo Machine & Auto Co.
 AUSTIN—*Gossard, A. R. (Mill Machinery)
 *†Heierman, Frank, & Bro.
 *†Tips Foundry & Machine Co.
 BATSON—*Wynn, J. S.
 BEAUMONT—*†Beaumont Iron Works
 *†Neches Iron Works
 BRENHAM—*†Beaumont Iron Works
 *Roff & Miller
 BRYAN—*Stevenson Machinery & Repair Co.
 CLARKSVILLE—*Miesch, John
 CORSICANA—*†American Well & Prospect-
 ing Co. (Iron Fdrs., Machinists & En-
 gineers)
 *†Clarkson, Wm.
 DALLAS—*†Continental Gin Co. (Cotton
 Gins) (See Birmingham, Ala.)
 †Dallas Brass Mfg. Co.
 †Dallas Gin & Foundry Co.
 *Graber, H. W. Mach. Co.
 *†Mardwick Foundry & Machine Co.
 *†Mosher Mfg. Co. (Grate Bars, etc.)
 *†Murray Co. (Gin Mach'y. & Supplies)
 *One Seed Planter Co. (Cotton Planters,
 etc.)
 *†Sutton-Steele & Steele (Inc.) (Mining
 Machinery, etc.)
 *†Texas Disc Plow Co. (Plows, etc.)
 DENISON—*Clark, H. W.
 †Knaur, Wm. E. & Co. (Iron Fdry.)
 *†Knaur & Howe
 EL CAMPO—*Lindstrom, C.
 EL PASO—*†Darbyshire Harvie Iron & Ma-
 chine Co.
 *†El Paso Foundry & Machine Co.
 *†Union Iron & Brass Works
 FARMERSVILLE—*Rike & Bumpass
 FORT WORTH—*†Axtell Co. (Windmills,
 †Bowdry & McKinley Iron Works, etc.)
 *†Fort Worth Gin Machinery Co. (Gin
 Elevators, etc.)
 *†Gamer Co.
 †Horrell Bros. (Mach'y, Castings, Grate
 Bars, etc.)
 *†Midland Brass Works (Brass Fdrs.)
 *Southwestern Mechanical Co., N Fort
 Worth
 *Texas Anchor Fence Co. (Farm, Stock &
 Lawn Fencing, Gates, etc.)
 *Texas Mfg. Co. (Cotton Gins, etc.)
 *†Van Zandt-Moore Iron Works (Ice &
 Well Machinery & Builders' Iron Work)
 GAINESVILLE—*†Gainesville Iron Works
 *Moseley, John L.
 GALVESTON—*†McDonough Iron W'ks (Steam
 Engines)
 *†Union Iron Works
 *†Walsh & Cleary (Iron Fdrs.)
 HOUSTON—*†Dickerson Car Wheel Co. (Car
 Wheels & Cartings)
 *†Hartwell Iron Works
 *Houston Engineering & Machine Co.
 *†Houston & Texas Central Ry. Shops.
 *Kettler Brass Mfg. Co.
 *†Layne & Bowler Co. (Pumps, etc.)
 *Ries, F. H.
 *†Southern Pacific Ry. Shops
 *†Union Iron Works
 *†Waterman Car Wheel & Foundry Co.

HUNTSVILLE—*†State Penitentiary
JEFFERSON—*†Jefferson Fdry. & Machine Shops
KELLYVILLE—†Kelly, G. A. Plow Co. (Agrl. Impls.) (See Longview, Tex.)
LAMPASAS—*Huling, Tom
LARDEO—*†National of Mexico R. R. Shops
LONGVIEW—†Kelly, G. A. Plow Co. (Agrl. Impls.)
LUFKIN—*†Lufkin Fdry. & Machine Co.
MARSHALL—†Marshall Car Wheel & Fdry. Co. (Car Wheels, etc.)
*Texas & Pacific R. R. Shops
PALESTINE—*†Dilley, Geo. M. & Son (Iron Fdrs. & Cars & Castings, etc.)
PARIS—*Collins & Dulaney
*Graves, W. H.
*†North Texas Foundry & Machine Co.
PITTSBURG—*†Pittsburg Foundry & Machine Co.
QUEEN CITY—*†Queen City Iron Works (W. E. Boyd, Prop.)
RUSK—*†Pryor, James T.
*†State Penitentiary
SAN ANGELO—*†San Angelo Mfg. Co.
*Wright & Co.
SAN ANTONIO—*†Alamo Iron Works
*†Collins-Gunther Co. (Macaroni & Irrigating Machinery, Castings, etc.)
†San Antonio Foundry Co.
*†San Antonio Machine & Supply Co.
*Southern Structural Steel Co.
SARATOGA—*Cheek & Graham
SHERMAN—*†Washington Iron Works
TEMPLE—*†Temple Foundry & Machine Co.
TEXARKANA—*†De Marce, Mrs. A. (Iron Fdry. & Steam Engines, etc.)
*†Texarkana Iron Works
WACO—*†June, D., Machinery Co. (Mill & Gin Mach'y., etc.)
WEATHERFORD—*†Lewis J. R.
*†Weatherford Machine & Foundry Co.
WHARTON—*Wharton Machine Shop
WICHITA FALLS—*Lucke, H. C. (Plows, etc.)
*†Wichita Falls Foundry & Machine Co.
WYLIE—McDonald, W. T.

UTAH.

MERCUR—*†Consolidated Mercur Gold Mines Co.
OGDEN—*†Pearce, Wm.
PROVO—†Pierpont, T. F.
SALT LAKE CITY—*†Anderson, Wm. N.
*Crager Wire & Iron Works
*†Davis, Howe & Co.
*Fowler, J. P.
*Hutchinson, C. P.
*†Oregon Short Line R. R. Shops
*†Salt Lake Engineering Works (Mining Concentrating & Smelting Machinery)
*†Sherman Engineering Co. (Mining & Milling Mach'y., etc.)
*†Silver Bros. Iron Works Co. (Iron & Brass Founders, Steam Engines)
*†Silver, Hyrum A. Fdry. & Machine Co. (Mining, Milling & Smelting Mach'y., etc.)
*Trent Engineering & Machinery Co.
*†U. P. R. Shops
*†Union Foundry & Machinery Co.
*†Utah Foundry & Machine Co.
†Warm Springs Foundry Co.
†Western Foundry & Stove Repair Works

VERMONT.

BARRE—*†Smith, Whitcomb & Cook Co. (Stone Polishing & Working Machy)
BARTON—*†Murkland, Jno. W.
BARTON—*†Murkland, Jno. W.
BELLOWS FALLS—*†Bellows Paper Mach. Co. (Paper Mill Machy)
*†Vermont Farm Machine Co. (Creamery Machinery, etc.)
BENNINGTON—*Bradford & Lasher
*Cooper, Chas. (Knitting Machinery, etc.)
*†Scott, Olin (Gun Powder, Paper & Pulp Mill Machy, etc.)
*Sibley, E. L. (Eyelet Presses)
BRANDON—*†Backus Co. (Heaters, etc.)
BRATTLEBORO—*Brattleboro Machine Wks etc.)
BURLINGTON—*Burlington Machine & Repair Co.
CHESTER—*Stearns, F. H. Mfg. & Supply Co.
DERBYLINE—*Butterfield & Co. (Taps & Dies, etc.)
EAST HIGHGATE—*Rixford Mfg. Co. (Scythes, Axes, etc.)
FAIRHAVEN—*Clogston, Luman
*†Dalrymple, George
*†Fair Haven Fdry. & Machine Co.
HIGHGATE—*†Highgate Foundry Co.

LUDLOW—*Warner, Edw. C.
LYNDONVILLE—*Wood, Edwin T.
MANCHESTER—*Hawley, E. J. & C. H. (Sand Feed & Stone Working Machy)
MIDDLETOWN SPRINGS—*†Gray's, A. W. Sons, Inc. (Agrl. Impls., etc.)
*Gray, Fred E.
MONTPELIER—*Colton Mfg. Co. (Saddlery Hdw.)
*†Lane Mfg. Co. (Woodworking Mach'y., Traveling Cranes, etc.)
MORRISVILLE—*†Morrisville Foundry Co.
NORTH TUNBRIDGE—†Smith, R. C. & C. B.
POULTNEY—*†Ruggles Machine Co. (Slate Machinery, etc.)
RANDOLPH—†Sargent, Osgood & Roundy (Plows, Farm Machinery, etc.)
RUTLAND—*Frenier & Son (Sand Pumps & Stone Working Machinery)
*Grimm, G. H. (Evaporators, Steel Ranges, etc.)
*†Howe Scale Co. (Scales, Engines, Power Hammers, etc.)
*†Lincoln Iron Works (Stone Working Machy, etc.)
†Patch, F. R. Mfg. Co. (Stone Working Machy, etc.)
*Rutland Machine & Auto Co.
*†Steam Stone Cutter Co. (Stone Working Machy, etc.)
*Stewart, L. & J. A. (Can Makers' Machinery, etc.)
ST. ALBANS—*†Central Vermont R. R. Shops
*†St. Albans Foundry & Implement Co. (Agrl. Impls., etc.)
SAINT JOHNSBURY—*American Fork & Hoe Co. (See Cleveland, O.)
*Clark, Calvin L. (Threshing Machines, etc.)
*†Fairbanks, E. & T. & Co. (Scales, Power Hammers, etc.)
*†Hooker, O. V. & Son
SOUTH SHAFTSBURY—†Eagle Square Mfg. Co. (Steel & Iron Bedsteads, etc.)
SPRINGFIELD—*†Fellows Gear Shaper Co. (Gear Shaping Machines)
*Gilman & Son (Last Lathes, etc.)
*†Jones & Lamson Machine Co. (Machine Tools, etc.)
*Parks & Woollen Machine Co. (Textile Machy.)
†Vermont Snath Co.
WALLINGFORD—American Fork & Hoe Co. (See Cleveland, O.)
*Wallingford Mfg. Co. (Hdw. Specialties, etc.)
WATERBURY—*†Cooley Mfg. Co. (Gas Engines)
WESTMINSTER STATION—*Abenague Machine Works (Gas & Gasoline Engines, etc.)
WEST RUTLAND—*North, Aaron E. (Water Wheels)
WILLIAMSTOWN—*Gregory, Jas. E. (Machinist)
WINDSOR—Hubbard & McClary (Hdw. Specialties)
*Windsor Machine Co. (Machine Tools, etc.)
WINOOSKI—*†Stevens Machine Co. (Wood Working Machy)
WOODSTOCK—†Daniels Machine Co. (Agrl. Impls., etc.)

VIRGINIA.

ALEXANDRIA—*Aitcheson, J. & H.
*†Alexandria Iron Works (Iron Fdrs., etc.)
*†Emerson Steam Pump Co. (Steam Pumps, etc.)
BASIC CITY—*†American Concentrator Co. (Mining Machinery, etc.)
†Virginia Stove & Mfg. Co. (Stoves, etc.)
BERKLEY—*Berkley Machine Works
Old Dominion Iron Works
BRIDGEWATER—*Miller, W. H.
BRISTOL—†Bristol Stove & Foundry Co.
BUENA VISTA—*†Buena Vista Foundry Co.
CHARLOTTESVILLE—*†Harris, R. F. & Co. (Agrl. Impls., etc.)
*Marshall, George B., Jr.
CHRISTIANSBURG—*†Christiansburg Chilled Plow & Machine Works
*Fagg & Rowzie
COVINGTON—*†Covington Machine Co.
CULPEPPER—*Nalle, T. E.
DANVILLE—*†Carter, J. T. (Machinist & Fdry.)
*†Westbrook, J. B., Elevator Co. (Elevators & Tobacco Machinery, etc.)
FINCASTLE—*†Bowyer, O. M. (Machinist & Fdry.)
FREDRICKSBURG—†Hunter, Chas. E. (Plows, etc.)
GLADE SPRING—*Wildasin, C. E.
GRAHAM—*†Thistle Foundry & Machine Co.
HAMPTON—*†Hampton Mfg. Co. (Agrl. Implements, etc.)

HARRISONBURG—†Bradley, P. & Sons (Plows & Agrl. Impls.)
*Garber & Garber
KEYSVILLE—†Keysville Plow Works (Plows, etc.)
LYNCHBURG—*†Glamorgan Pipe & Fdry. Co. (Cast Iron Pipe, etc.)
*Hicks, C. W.
*†Hubard Foundry & Machine Works
*†Lynchburg Foundry Co. (Cast Iron Gas & Water Pipe & General Foundry Work)
MANCHESTER—*†Southern Railway Shops
MAIRION—*†Look & Lincoln (Inc.) (Agrl. Implements, Wagons, etc.)
*†Marion Fdry. & Machine Works
MARTINSVILLE—*†Cheshshire, J. W. & NEWPORT NEWS—†Gildersleeve, E. Sons
*†Newport News Ship Building & Dry Dock Co. (Steel Ships, Marine Engines, etc.)
*Warwick Machine Co. (Machinists)
NORFOLK—*†Atlantic Iron Works (Iron & Brass Castings of Every Description)
*†Billups, C. Son & Co. (Agr'l Impls., etc.)
*Chesapeake Launch & Motor Co. (Marine Engines, etc.)
†Donohue & Marsden
*Duvall, Geo. W. & Co.
*†Edmonds, Walter A. & Co.
*†Elizabeth Iron Works (Engines, Boilers, Forgings, etc.)
*†Etna Iron Works (Machinists, Iron & Brass Castings, Grate Bars, etc.)
*†Goodwin, T. W. & Co.
*Norfolk Woodworking Machinery Co. (Woodworking Mach'y., etc.)
*†Ridgewell & Hall
*Smith & McCoy (Engines, etc.)
*†White, S. R. & Bro. (Agrl. Impls.)
†Whitehurst, R. W. & Co. (Agrl. Impls., etc.)
NORTON—*†Norton Car & Foundry Co.
PARKSLEY—*McCready, A. J.
PETERSBURG—*†Ayers, J. R.
*†Steere, A. L. & C. H.
*†Titus, Elmer E. (Iron Fdry. & Basket & Veneer Cutting Machy., etc.)
PHOEBUS—*†Sayre Bros.
POCAHONTAS—*†Pocahontas Collicles Co.
POOLVILLE—†Pool, S. P.
PORT REPUBLIC—†Port Republic Foundry
PORTSMOUTH—*†U. S. Navy Yard Co.
*†Seaboard Air Line
PULASKI—*†Pulaski Foundry & Machine Co.
*†Virginia Iron, Coal & Coke Co. Co.
PURCELLVILLE—*†Purcellville Fdry. Co.
RADFORD—*†Lynchburg Foundry Co. (Cast Iron Pipe, etc.)
RICHMOND—*†American Locomotive Co. (Locomotives). (See New York City)
*†Call-Watt Co. (Plows, etc.)
†Cameron Stove Co. (Stoves, etc.)
*†Cardwell Machine Co. (Machinists & Fdrs.)
†Carr, Jas. W.
*Coffee Machine Co. (Machinists)
†Continental Stove Co. (Stoves, etc.)
†Ford, Chas B. Co.
†Frictionless Metal Co. (Bearings, etc.) (See Chattanooga, Tenn.)
*†Johnson, J. R. & Co. (Car Axles, etc.)
*McLaughlan, Thos.
*†Mayo Iron Works
†Old Dominion Iron & Nail Works Co. (Iron Fdrs. & Nails & Bar Iron, etc.)
*†Oliver Chilled Plow Works (Agrl. Implements)
*†Richmond Electric Co. (Dynamoes, etc.)
*Richmond Engine & Pump Co.
*†Richmond Fdry. & Mfg. Co. (Light Grey Iron & Brass, Rough and Machined Castings)
*†Richmond Iron Works (Iron & Brass Castings, Builders' Iron Work)
*†Richmond Mfg. Co. (Engines, Motors, etc.)
†Richmond Pattern & Structural Iron Works (Stove Mfrs. & Castings)
†Richmond Stove Co. (Stoves, etc.)
*Smith-Courtney Co. (Machinists, etc.)
†Southern Stove Works (Stoves, etc.)
†Starke's Dixie Plow Works (Agrl. Implements, etc.)
*†Strickland Machine Co. (Machinists & Fdrs.)
*Tower-Binford Electric & Mfg. Co. (Electrical Specialties)
*†Tredegar Co. (Car Wheels & Brass & Iron Castings)
*Turner, Jno. & Son (Machinists)
*Umlauf, J. A. (Elevators)
*†Virginia Pipe & Foundry Co.
ROANOKE—*†Norfolk & Western R. R. Shops
*†Roanoke Iron Works
*†Virginia Bridge & Iron Co. (Bridge & Steel Structural Work, etc.)
RURAL RETREAT—*†Lobdell Car Wheel Co. (See Wilmington, Del.)

SALEM—*†Camden Iron Works (Iron Fdrrs., etc.)
 *Comas Machine Co. (Cigarette Machy.)
 *†Salem Foundry & Machine Wks (Flour Mill Mach'y)
 STAUNTON—*†Leader Plow Co. (Plows, etc.)
 †Stockton, B. F. & Bros.
 SUFFOLK—*†Benthall Machine Co. (Peanut Picking Machines, etc.)
 †Onsler, H. M.
 SUTHERLIN—*†Kerns, H. O.
 TOMSBROOK—†Powell's Fort Stove Co.
 VESUVIUS—†Vesuvius Plow Works (Agri. Impls.)
 WAYNESBORO—†Loth, W. J. Stove Co. (Stoves)
 *†Rife & Schoppert (Iron Fdrrs. & Machinists)
 WINCHESTER—*†Snapp, F. R., & Sons
 WYTHEVILLE—*†Wytheville Iron Works

WASHINGTON.

ABERDEEN—†Douglas Bros.
 *†Vulcan Iron Works (See Seattle)
 ANACORTES—*Anacortes Machine & Steam
 ASOTIN—*Brown, L. K. Boiler Wks.
 BELLINGHAM—*Bellingham Engineering & Machine Works
 †Bellingham Foundry Co.
 *†Burpee & Letson (Ltd.)
 *Excelsior Carbide & Gas Machine Co. (Gas Machines, etc.)
 *†Industrial Iron Works
 *Walling, S. E.
 *†Whatcom Machinery Depot
 BLAINE—*Rohrbacher, E. J.
 BREMERTON—*†U. S. Navy Yard
 CENTRALIA—*†Symons, J. P. Co.
 COLFAX—*†Carley Bros.
 DAVENPORT—*†Davenport Machy. Co.
 DAYTON—*†Columbia-Dayton Iron Works (H. N. Pringle, Prop.)
 ELLENSBURG—*†Raskins, L.
 EVERETT—*†Schofield, Fred
 *†Summer Iron Works (Saw & Shingle Mill Machy., Boilers, etc.)
 †Washington Stove Works
 FERNDALE—*†Ferndale Iron Works
 HOQUIAM—*†Gray's Harbor Iron Steel Co.
 *Lamb, F. H.
 KALAMA—*†Kalama Iron Works
 LACCONER—*Wingren, Peter
 NEWPORT—*†Miner, F. W.
 NORTH YAKIMA—*†Holstein, A.
 *†Yakima Iron Works
 OLYMPIA—*Allen, R. N.
 *Mason, C. Z.
 *†Pioneer Iron Works
 PALOUSE—*†Halfhide, R. & Co.
 PROSSER—*†Prosser Iron Works
 PUYALLUP—†Acme Malleable Iron & Fdry. Co.
 RAYMOND—*†Raymond Foundry & Mach.
 RITZVILLE—*†Landreth, W. H. Works
 SEATTLE—*American Machine Works
 *Bard Electric Co. (Inc.) (Electrical Machinery, etc., Repaired)
 *Biegert, J. C. Machine Works (Mach'ts)
 *Campbell Bros. (Marine & Stationary Engines, etc.)
 †Cascade Steel Fdry. Co. (Gins, etc.)
 *Elliott Bay Iron Works (Saw Mill Machinery, etc.)
 †Enterprise Brass Foundry Co.
 *Erickson-Wyman Co. (Electrical Elevators, Dynamos, Motors, etc.)
 *Federal Valve Co.
 *Fraser, W. B. (Machinist)
 *Gifford, E. O. (Machinist)
 *Hefernan Engine Works (Steam Engines, etc.)
 *Hutton, A. F. (Machinist)
 *Jones, Chas. C. & Co. (Machinists)
 *McCabe, W. L. (Machinist)
 *Marine Iron Works
 *Meese & Gottfried Co. (See San Francisco, Cal.)
 *Miller, J. K. (Blowers, Heating Apparatus, Ventilating Fans, etc.)
 *†Moran Co. (Ship Builders, Marine Engines, Iron & Brass Fdrrs., etc.)
 *N. & S. Electric Co. (Electric Motors, etc.)
 †N. & S. Foundry Co.
 *†Northwestern Iron Works (Iron Fdrrs & Machinists & Marine, Mill & Mining Machinery)
 †Olympic Foundry Co. (Builders' Castings, etc.)
 *Philbrick Cutterhead Co. (Cutterheads)
 †Poppel & Knowles Co. (Furnaces, etc.)
 *Puget Sound Machinery Depot (Jobbing)
 *Schaafe Machine Works (Repairs, etc.)
 *Seaborn Iron Works
 †Seattle Brass Co. (Brass Fdrrs.)
 *†Seattle Car Mfg. Co. (Logging Trucks, Cars, etc.)

*†Seattle Frog & Switch Co. (Frogs, Switches, etc.)
 *Seattle Machine Works (Machinists, etc.)
 *Star Mach'y Co. (Gang Edgers, Hoists, etc.)
 *Stetson-Ross Machine Works (Woodworking Machy.)
 *Tracy Bros.
 *†Union Iron Works
 *Uren, Andrew (Machinist)
 *†Variety Iron Works (Machinery & Castings)
 *†Vulcan Iron Works (Iron & Brass Fdrrs. & Mining Machy., etc.)
 *†Washington Iron Works Co. (Hoisting & Logging Engines, Castings, etc.)
 *†West Coast Iron Works
 *†Westerman Iron Works (Iron Fdrrs. & Machinists)
 SEDRO WOOLLEY—*†Sedro Woolley Iron Works
 SNOHOMISH—*†Snohomish Iron Works Co.
 SOUTH BELLINGHAM—*Burpee & Letson, Ltd. (Saw Mill Machinery)
 SOUTH BEND—†Glichrist, John G.
 SPOKANE—*†Armstrong Machinery Co. (Machinery, etc.)
 *†Barnard Mfg. Co. (Flour Mill Machinery, etc.)
 †Klein, Henry A. (Machinery, etc.)
 *†National Iron Works (Inc.) (Mining Machinery, Castings, etc.)
 *Pacific Iron Works (Machinists)
 *Simmons & Sons (Builders Iron & Machine Work)
 *†Spokane Harvester Co. (Agri. Impls.)
 *Spokane Ornamental Iron & Wire Works
 *Ulley, J. D.
 *†Union Iron Works (Mining Machinery, Engines, Castings, etc.)
 TACOMA—*†Atlas Foundry & Machine Co.
 *Bainford, Jesse (Brass Fdry. & Machinist)
 *Brown Mfg. Co. (Mill Mach'y, etc.)
 *†Carman Mfg. Co.
 *†Gawley, Fdry. & Machine Works
 *†Griffin Wheel Co. (Car Wheels). (See Chicago, Ill.)
 *†McConnell Engineering & Machy. Co.
 *Pacific Coast Elevator & Machine Co.
 *†Puget Sound Iron & Steel Works (Gasoline Engines, Log Hauls, etc.)
 †Tacoma Ry. & Power Co.'s Shops
 *†Tacoma Smelting Co. (Smelters, etc.)
 *†Washington Pipe & Foundry Co.
 THORNTON—*Hodgson Bros.
 WALLA WALLA—*†Hunt, Gilbert Co. (Agri. Impls., etc.)
 *Washington Weeder Works (Disc Cultivators)

WEST VIRGINIA.

BLUEFIELD—†Superior Supply Co.
 CAMERON—*Cameron Tool Co.
 CHARLESTON—*†Acme Boiler & Machine Works
 *Agnew Electric Co. (Electric Machinery)
 *†Kanawha Mine Car Co (Coke Oven Castings, Mine Cars, Wheels & Axles, etc.)
 *Kelly Axe Mfg. Co. (Axes, etc.)
 *†South Side Foundry & Machine Works (Iron Castings & Mine Fans, etc.)
 †Ward, Chas., Engineering Co. (Marine Boilers, etc.)
 CHARLESTOWN—*†Powhattan Brass & Iron Works (Brass Fdrrs. & Brass Finishers)
 *†Weller, J. F. (Plumbing Goods)
 CLARKSBURG—*†Clarksburg Foundry & Casting Co.
 *†Hart Bros. Machine Co. (Engines & Saw Mills)
 *Osborne, W. B. Machine Co. (Mills)
 *†Osborne's, J. F. Sons (Iron Fdrrs. & Engines & Saw Mills)
 ELKINS—*†Humphrey Mfg. Co.
 *†Quinn Bros. Foundry & Machine Co.
 FAIRMONT—*Aultman Steam Pump Co.
 *Donnelly, A. H. (Steam Pumps, etc.)
 †Fairmont Foundry Co.
 *†Fairmont Mining Machinery Co. (Mining Machinery & Soft Castings)
 *†Helmick Foundry & Machine Co. (Coal & Coke Oven Equipments, etc.)
 †Mountain City Stove & Mfg. Co. (Stoves, etc.)
 GRAFTON—*†Grafton Foundry & Machine Co.
 *Moran, Patrick
 *†Newlon Foundry & Machine Co.
 HINTON—†Hinton Foundry, Machine & Plumbing Co.
 HUNTINGTON—*†American Car & Fdry. Co. (See St. Louis, Mo.)
 *†Globe Foundry Co. (See Port Chester, N. Y.)
 †Huntington Stove & Foundry Co. (Stoves)
 *†Ingram & O'Neal
 *†Jarvis Machinery & Supply Co.
 *†Perfect Gas Stove Mfg. Co. (Gas Stoves, etc.)
 †West Va. Foundry & Stove Co.

KEYSTONE—*†Central Machine Works
 MANNINGTON—*Philips, Chas., Tool Co.
 MARTINSBURG—*†Matthews, T. E. & Bro.
 *Shaffer, George H.
 MORGANTOWN—*†Romisch Mfg. Co.
 MOUNDSVILLE—†Mountain State Gas Stove & Mfg. Co. (Gas Stoves, etc.)
 *Three Barrell Gun Co. (Fire Arms)
 NEW CUMBERLAND—*†Davis-Price Fdry. & Machine Co.
 NEW MARTINSVILLE—†Kotzebue, G. W., (Heaters, etc.)
 PARKERSBURG—*Acme Fishing Tool Co. (Oil Well Supplies)
 *American Drilling Tool Co. (Oil Well Supplies)
 *Crotty, J. J. & Co.
 †Kelley, Michael (Iron Fdry.)
 *Kesselman & Co. (Machinists & Oil Well Tools, etc.)
 *National Sucker Rod Co. (Sucker Rods, etc.)
 *Parkersburg Machine Co. (Machinists)
 *†Stiles Foundry & Supply Co. (Machinists & Iron & Brass Fdrrs.)
 PHILIPPI—*†Philippi Fdry. & Machy. Co.
 PIEDMONT—*†Piedmont Foundry & Mach. Co. (Iron Fdrrs. & Machinists)
 POINT PLEASANT—*†Point Pleasant Machine Works
 †West Virginia Malleable Iron Co.
 RONCEVRETE—*†Eagle, J. W. P.
 SISTERVILLE—†Davin, J. J.
 *Finleyson, Jno.
 *McJunkin, E. J.
 *Sexton Machine Co.
 WELLSBURG—*Teeple & Johnson
 *†Wellsburg Heating & Foundry Co. (Hot Air Furnaces)
 WESTON—*†Dancer Mfg. & Supply Co.
 WHEELING—*†Center Foundry & Machine Co. (Glass House & Pottery Machy., etc.)
 †Co-operative Stove Co. (Stoves)
 *Hazel-Atlas Glass Co.
 *†Mahike, R. H. Mold & Machine Works
 *Mutual Electric & Machine Co. (Electrical Brass & Copper Specialties)
 *†National Tube Co. (Riverside Iron Works)
 *†Portsmouth Steel Co. (Grey Iron & Steel Castings). Works, Portsmouth, O.
 *Riverside Bridge Co.
 *Sands, H. S. Electric & Mfg. Co.
 *Spears & Riddle Co. (Machine Tools)
 *Warwood Tool Co. (Tools, etc.)
 *Weisgerher & Ebeling Machine Co.
 *†Wheeling Mold & Foundry Co. (Glass House & Rolling Mill Machy. & Castings)
 *†Wheeling Steel & Iron Co. (Grey Iron Castings, etc.)
 †Wheeling Stove & Range Co. (Stoves Ranges, etc.)

WISCONSIN.

ADBELL—†Helminger, Chas.
 ALBANY—*Morgan & Whitcomb (Hardware Specialties)
 ALGOMA—*†Wodesedalek & Co.
 ANTIGO—*†Pioneer Iron Works
 APPLETON—*†Appleton Machine Co. (Paper & Pulp Mill Machinery)
 *Appleton Screen Plate Co.
 *Becker, John E. (Plows, etc.)
 *Double Power Mill Co. (Windmills, Agri. Implements, etc.)
 *†Eagle Mfg. Co. (Portable Gas Engines, etc.)
 *Rowell, G. D. & Son (Concrete Block Machines)
 *†Valley Iron Works Co. (Iron & Bronze Castings & Wood Pulp Machy., Turbines, etc.)
 ARCADIA—*Farnholz, Henry
 ASHLAND—*†Bretting, C. G. Mfg. Co.
 †Sanders, Robert E. (Boilers, etc.)
 BARABOO—*Farnum, C. H.
 *Gollmar, George J.
 BEAVER DAM—*†Beaver Dam Malleable Iron Co.
 *†Beaver Dam Mfg. Co. (Agri. Impls., etc.)
 *Harder, H. J. (Gas Engines)
 *†Malleable Iron Range Co. (Malleable Iron Ranges)
 *Ordway, A. F. & Son (Mill Machy)
 *†Rowell, J. S. Mfg. Co. (Agri. Impls., etc.)
 BELOIT—*Beloit Foundry Co.
 *†Beloit Iron Works
 *†Berlin Machine Works (Wood Working Machy)
 *Dowd, R. J., Knife Works (Machine Knives, etc.)
 *†FAIRBANKS, MORSE & CO. (Gas Engines, etc. (See adv. index, end of book))
 *Gardner Machine Co.
 *†Gaston's, N. B. Sons Co. (Scales, etc.)
 *†Gesley Mfg. Co. (Agri. Impls.)
 †Hammel, A.

*Mattison, C. Machine Works (Variety Wood Turning Machines)
 *†Slater & Marsden
 *†Thompson, J. & Sons Mfg. Co. (Agrl. Impls., Engines, etc.)
 *†Wood Turning Machine Co.
 BERLIN—*†Johnson-Fortman Machine Works
 *†Schaefer Mfg. Co. (Gas & Gasoline Engines, etc.)
 BLACK EARTH—*Fesenfeld & Barber
 BLOOMER—*Bloomer Machine Works
 BOSCOBEL—*†Ruka Bros. Mfg. Co.
 BRILLION—*†Brillion Iron Works
 BRISTOL—*Curtis, Wells
 BROOKLYN—*Farmers' Mutual Benefit & Trading Co.
 BURLINGTON—*Agner & Bushman (Vending Machines)
 *§Burlington Brass Works (General Brass Founders & Finishers)
 *Lawton & Bushman (Tools, etc.)
 *†Wagner Bros.
 *Zwiebel, A., Jr.
 CEDARBURG—*†Cedarburg Foundry Co.
 CEDAR GROVE—*†§Wisconsin Foundry & Steel Works (Iron & Steel Castings)
 CHILTON—*†Vahldeck, A. H.
 CHIPPEWA FALLS—*†Stanley, F. G. & C. A. Company
 CLINTONVILLE—*Zachow & Besserlich
 CLINTON—*†Smith & Holtum Mfg. Co. (Castings, etc.)
 COLBY—*Loos, E. D.
 COLUMBUS—*Roberts, G. D. & Son
 CORLISS—*Corliss Engineering Co.
 *†Wisconsin Engine Co. (Corliss Engines, Mining & Rolling Machinery & Castings)
 CUDAHY—*†Power & Mining Machinery Co. (Gas Engines, Mining Machinery, Boilers, Tanks, etc.)
 DE PERE—*†§Lawton, Chas. A. Co.
 *†Lyons Boiler Works
 *†Western Steel & Iron Works
 DORCHESTER—*Fleckenstein, V.
 DOUSMAN—*Maxwell & Jenkins
 EAU CLAIRE—*American Motor Co. (Gas Engines)
 *Drake, P. A.
 *†McDonough Mfg. Co. (Saw Mill Machinery, etc.)
 *†§Northwestern Steel & Iron Works (Agrl. Implements, etc.)
 *†Phoenix Mfg. Co. (Saw Mill Mach'y., Steam Engines, etc.)
 EDGERTON—Burgy, F. F. (Gasoline Engines, etc.)
 ELKHORN—*Zwiebel & Griebel (Machinists)
 ELLSWORTH—*†Rounce, J. S.
 EVANSVILLE—*†§Baker Mfg. Co. (Wind Mills & Engines)
 FOND DU LAC—*Abel Bros.
 *†Fond Du Lac Implement Co. (Agrl. Implements)
 *†Giddings & Lewis Mfg. Co. (Iron Fdrs. & Saw Mill Machinery)
 *Glasow, Fred (Plows)
 *Hass, H. E. (Gas & Gasoline Engines)
 *Quenton, Peter N. (Gas Engines)
 FORT ATKINSON—*†§Cornish, Curtis & Green Mfg. Co. (Creamery Pkg. Mfg. Co., Chicago, Ill., Props.)
 *Pounder, Geo. H. (Harrows, etc.)
 FOUNTAIN CITY—*Dressendorfer, Andrew
 GILLET—*†Frisbie, Marion G.
 GRAFTON—*†Grafton Foundry Co.
 GRAND RAPIDS—*†§Grand Rapids Fdy. Co.
 *Krieger, Geo. F. & Co. (Machinists)
 GREEN BAY—*†§American Wood Working Machinery Co. (See Rochester, N. Y.)
 *†Green Bay Foundry & Machine Co.
 *Green Bay Machine Co.
 *Hudson & Sharp
 *Milwaukee Sander Mfg. Co.
 *†Rothe, Jos. F. (Castings)
 *Stranbel Machine Co.
 HARTFORD—*Hartford Plow Co. (Plows, etc.)
 HARTLAND—*Ordway, E. C.
 HORICON—*†Van Brunt Mfg. Co. (Agrl. Implements, etc.)
 JANESVILLE—*†Badger State Machine Co. (Punching & Shearing Machinery)
 *Bicknell Mfg. & Supply Co. (Power Machinery, etc.)
 *†Janesville Machine Co. (Agrl. Impls., etc.)
 *†§New Doty Mfg. Co. (Punching & Shearing Machinery)
 *Rock River Machine Co. (Punching & Shearing Machinery)
 *Strickler Hay Tool Co. (Hay Tools, Hdw. Specialties, etc.)
 JUNEAU—*Brenslake, John
 *†Briemann, Chas. G.
 KAUKAUNA—*Hoehne, Fred
 *†McLean, Alex. W. & Co.
 KENOSHA—*†Aarneson Foundry Co.
 *Arnold, W. G. (Gas Engines, etc.)
 *†Badger Grass Mfg. Co. (Automobile Lamps, etc.)

*†§Frost Mfg. Co. (Plumbers' Supplies, Brass Goods, etc.)
 *†§Jeffrey, Thos. B. & Co. (Automobiles)
 *†Lippert Iron Works
 *†§Simmons Mfg. Co. (Metallic Bedsteads, etc.) (See Chicago, Ill.)
 *Wells, Frank L. (Machinist)
 KEWASKUM—*Rommel, Nicholas (Machinist)
 KEWAUNEE—*†§Hamacek, Frank
 KILBOURN—*†§Kilbourn Machine Co.
 *†Marvel Motor Works (Gasoline Engines, etc.)
 LA CROSSE—*Benton, Thos. P. & Son (Dynamometers, Engines, etc.)
 *Franklin Iron Works
 *†§James Company (Grey Iron & Brass Castings)
 *†§La Crosse Plow Co. (Plows, etc.)
 *Ott, Benj. & Sons (Bark Shaving Mills)
 *Peterson Gas Engine Works
 *†Smith Grubber Co. (Stump Pullers, etc.)
 *†Smith Mfg. Co. (Wagons, Grey Iron Castings, Stump Pullers, etc.)
 *Stamping & Tool Co. (Steel Novelties, Dies, etc.)
 *Starch Bros. (Cream Separators, etc.)
 *†Summit Foundry Co. (Stoves, Furnaces, etc.)
 *†Torrence, Jno. & Son (Machinists & Builders & Machinery Castings, etc.)
 LAKE MILLS—*†Fargo Creamery Supply House (Creamery Mach'y)
 LANCASTER—*Hyde, E. H. (Machinist)
 LOMIRA—*Zeldler Lamp & Brass Co. (Gasoline Torches)
 LOYAL—*Etta Bros.
 MADISON—*American Plow Co. (Agrl. Implements)
 *†§Fuller & Johnson Mfg. Co. (Agrl. Implements, Gasoline Engines, etc.)
 *†§Gisholt Machine Co. (Machine Tools, Vertical & Horizontal Boring Mills, Turret Lathes, Tool Grinders, Brass & Iron Founders)
 *†§King & Walker Co. (Printing Presses, etc.)
 *†§Kupfer, Theodore (Power Shears, etc.)
 *†Madison-Kipp Lubricator Co. (Lubricators)
 *Newberry & Peiper
 *†Northern Electrical Mfg. Co. (Dynamometers, Generators, etc.)
 *Steinle Turret Machine Co. (Turret Lathes)
 MANAWA—*Ory Mfg. Co.
 MANITOWOC—*§Aluminum Fdry. Co. (Aluminum Castings, etc.)
 *†American Seating Co. (See Chicago, Ill.)
 *Dedrich, N. (Special Mach'y, etc.)
 Manistowoc Dry Dock Co. (Steel Ships, Engines, etc.)
 *Gateman Mfg. Co. (Agrl. Impls., etc.)
 *Gunnell Machine Co.
 *†§Richards Iron Works (Iron Fdry., etc.)
 *†§Smalley Mfg. Co. (Agrl. Impls., Plows, etc.)
 MARINETTE—*Sandlund, Peter
 *†Stevens, A. W. Co. (Agrl. Impls., Engines, etc.)
 MARSHFIELD—*†Lang & Scharmann
 *Metteika, John J.
 MARYTOWN—*Langenfeld, Jno.
 MAUSTON—*Strong, H. C.
 MENASHA—*†Paul-Luttman Co.
 *†§Sailor, Whitmore Machine Co.
 MENOMONEE FALLS—*†Rowell, I. B. Co. (Agrl. Impls., Gasoline Engines, etc.)
 MENOMONIE—*†§Anderson, Chas. J.
 *†§Globe Iron Works Co. (Gasoline Engines, etc.)
 MERRILL—*†§Merrill Iron Works
 MILWAUKEE—*Acme Pattern & Mfg. Co. (159 Clinton)
 *†§ALLIS-CHALMERS CO. (Mining Machinery, Steam Turbines, Engines, Pumps, etc.) (See adv. index, end of book)
 *†American Bridge Co., 17th st & St. Paul av. (See also New York City)
 *†Ashton, Thos., & Son (Grey Iron Castings), S Pierce & 24th av
 *Badger Meter Mfg. Co., 261 3d
 *Barth Mfg. Co. (Jacks, etc.), 348 Milwaukee
 *†Bay View Steel Casting Co. (Steel Castings, etc.), 132 S. Bay
 *†Bayley Mfg. Co. (Steam Fans & Blowers, etc.), 732 Greenbush
 *Bierman Automatic Machine Co., 981 W. 24th
 *†Brand Stove Co. (Stoves), 295 6th
 *Brodesser Elevator Mfg. Co. (Elevators & Rolling Mill Mch'y)
 *†Burnham, Clinton Foundry Co. (Iron Fdrs., etc.), 93 Mason
 *†C., M. & St. P. R. R. Shops
 *†Central Foundry Co., 705 Park
 *†Chain Belt Co. (Grey & Malleable Iron & Steel Castings, Conveyors, Chain Link, etc.), 736 Park
 *Christensen, Niels A. (Air Compressors, etc.), 845 30th

*†Colnik, C. Mfg. Co. (Builders' Iron Work), 750 Greenbush
 *†Crucible Steel Casting Co. (Crucible Steel Castings)
 *§CUTLER-HAMMER MFG. CO. (Electrical Specialties), (See adv. index, end of book)
 *Davis Mfg. Co. (Hdwe. Specialties, etc.), 267 6th
 *§Dengel, F. R. Mfg. Co. (Plumbers' Goods)
 *Doelger & Kirsten, 507 Cedar 336 4th
 *Downey & Kruse Co. (Marine Repairs, etc.), 112 2d
 *Durant, W. N. Co. (Speed Indicators, Counting Machines), 317 Milwaukee
 *†Dutcher Co. (Steel Castings, etc.), 670 Kinnikinnick av
 *Economical Tool Co. (Expansion Reamers, Tools, etc.)
 *El Starr Mfg. Co. (Tool Grinders, etc.), 935 30th
 *†Elite Foundry Co., Howell av. & Schiller
 *†Falk Co. (Steel Castings & Railroad Specialties), Menominee Valley ft 30th
 *†§Filer & Stowell Co. (Steam, Gas & Gasoline Engines, Pumps, Saw Mill Machinery, etc.)
 *†Fraser Co. (Engines & Milling Machines)
 *†Fuller-Warren Co. (Stoves, etc.), 32d & Wright
 *†Galland-Henning Pneumatic Malting Drum Mfg. Co. (Brewers' & Malsters' Machinery), 97 Wisconsin
 *†Greenslade Foundry Co., Jackson & Corcoran av
 *Hackendahl & Schmidt Co. (Bldrs., Iron Work, etc.), 1513 St. Paul av
 *Heil Co. (Structural Iron Wks, etc.), 26th & Dakota avs
 *Heller, Siegfried (Electric Elevators & Hoisting Machinery), 290 5th
 *Hewitt Mfg. Co. (Brass & Bronze Castings), 241 Greenfield av (See Chicago, Ill.)
 *Hide & Leather Working Mach. Co., 653
 *†Hirsch Bros. (Agrl. Impls.), E Water
 *†§Hoffmann, B. Mfg. Co. (Iron & Brass Fdrs., Steam Pipe Fittings & Steam & Plumbing Goods), 257 6th
 *†§Hoffman & Billings Mfg. Co. (Iron & Brass Fdrs. & Steam Fitters' & Plumbers' Supplies)
 *Holt Electric Co. (Electrical Specialties), 285 Virginia
 *†International Harvester Co. of America, Colby-Abbot Bldg. (See Chicago)
 *§Johnson Service Co. (Heat Regulators, etc.), 149 Michigan
 *Kagel Bros. Co., 1208 St. Paul av
 *Kearney & Trecker (Machine Tools), 59th & National av
 *Kempsmith Mfg. Co. (Machine Tools, etc.), Linus & Woodward
 *KIECKHEFER, A. ELEVATOR Co. (Electric, Hand & Power Elevators), 1026-1104 St. Paul av. (See adv. index, end of book)
 *Kopperud, Andrew (Machinist), Madison & Barclay
 *Krahn Mfg. Co. (Machinery, etc.), 210 Sycamore
 *§Kruecke Bros. Mfg. Co. (Brass Fdrs., Brewers' Pumps, Castings of All Kinds), 515 Park
 *Krueger Mfg. Co. (Machinists), 50 Biddle
 *Kunz, J. L. Machinery Co., 1242 Booth
 *§Lamp & Miller Mfg. Co. (Brass Fdrs. & Finishers), 509 Cedar
 *Lauson, C. P. & J., Co. (Air Compressors, etc.), 841 30th
 *†Lindeman, A. J. & Hoverson Co. (Stoves), 348 Florida
 *†Lindemann, J. P. & Sons (Stoves), 5000 State
 *§Loeffelholz Co. (Railroad Car, Cabinet & Office Trimmings, etc.), 170 Clinton
 *Logemann Bros. Co. (Hydraulic Machinery, etc.)
 *Luitink & Sons Mfg. Co. (Door Hangers, etc.), 775 18th
 *Lutter & Gies (Machine Tools), 258 Lake
 *Manthey-Sieker Co., 625 Cedar
 *Maynard Steel Foundry Co., 710 Reed
 *MECHANICAL APPLIANCE CO. (Dynamometers, Motors & Generators), East End of Stewart. (See adv. index, end of book)
 *Mensching Brass Foundry Co. (book)
 *Merkel Motor Co. (Motor Cycles, etc.),
 *Meyer, Geo. J. Mach'y Co., 576 Clinton
 *Milwaukee Aluminum & Brass Co. (Aluminum & Brass Castings)
 *Milwaukee Auto Engine & Supply Co., 706 Winnebago

*§Milwaukee Brass Mfg. Co. (Plumbers' Brass Goods), 241 Lapham
 *†Milwaukee Bridge Co. (Steel Structural Work, etc.), 1400 34th
 *Milwaukee Cutting Die Co. (Cutting Dies, etc.)
 *Milwaukee Gas Stove Co. (Gas Stoves & Ranges, etc.), 139 Burrell
 *Milwaukee Hay Tool Co., Layton Park
 *Milwaukee Machinery Co., 31st & Walnut
 *†Milwaukee Malleable & Grey Iron Wks., Layton Park
 *Milwaukee Metal Working Co., Montgomery bldg
 *Milwaukee Motor Co. (Gas & Steam Engines), 32nd & Burrell
 *†Milwaukee Steel Foundry Co., S Water & Virginia
 *†Milwaukee Stove & Foundry Co. (Stoves, etc.), 130 Water
 *§Milwaukee Valve Co. (Valves & Steam Specialties, etc.), 139 Burrell
 *†Mueller, L. J. Furnace Co. (Furnaces & Heating Apparatus, etc.), 197 Reed
 *Munkwitz, Ewd. H. Co. (Machinists), Muskego av & S Canal
 *Munn Hdwe. & Mfg. Co., 132 Mason
 *Murphy Specialty Co., 942 Grand av
 *Nash, J. M. (Chair, Wood Polishing & Woodworking Machinery), 842 30th
 *National Blower Works (Blowers, Exhausters, Driers, etc.), 17th & St. Paul av.
 *†§National Brake & Electric Co. (Dynamometers, Motors, Castings, Air Brakes, Compressors, etc.), Park Pl
 *National Machine Co. (Lathes, Slide Rests, etc.), 660 Washington
 *Netzwor, Chas. F. Mfg. Co. (Sewing Machines, etc.), 210 Sycamore
 *†Nordberg Mfg. Co. (Engines, Pumping Machinery, etc.), Oklahoma & Chicago av
 *Northern Novelty Works (Patterns & Pel-
 *†Northwestern Malleable Co., 766 Park
 *Northwestern Mfg. Co. (Dynamometers & Motors), Clinton & Madison
 *†Nortmann-Dultke Foundry Co. (Crucible Steel Castings, etc.), Layton & 27th avs
 *Obenberger, John Co. (Hand Cranes, Trolleys, etc.), 224 Lake
 *Obenberger, Joseph, & Son Co., 123 Barclay
 *†Pawling & Harnischfeger (Electric Cranes & Hoists, etc.), National av & 28th
 *Pfeiffer & Smith (Machinists), 495 Clinton
 *§Polachek, Chas. & Bro. Co. (Gas Fixtures, etc.)
 *†Prime Steel Co. (Crucible & Manganese Steel Castings), Chicago rd
 *Prinz & Rau Mfg. Co. (Brewers & Malsters & Flour Mill Mach'y, etc.), 659 E Water
 *†§Rundlee Mfg. Co., Wahl & 27th av
 *§Rundlee-Spence Mfg. Co. (Steam Enamelled Iron & Plumbing & Brass Fdrs., etc.), 63 2d
 *Schneck Machine Co., 811 St. Paul av
 *Schwab, Ph. & Anderson Co., 16th & Canal
 *†Schwab, R. J. & Sons Co. (Iron Fdrs. & Machinists & Hot Air Furnaces), 283
 *Schwalbach, M. & Sons, 426 9th Clinton
 *†§Sheriffs Mfg. Co. (Propeller Wheels & Marine Engines, etc.), 124 Barclay
 *Sherman, W. S. & Co. (Woodworking Machinery, etc.), 495 Clinton
 *Sight Feed Oil Pump Co. (Sight Feed Oil Pumps, etc.), 1148 Holton
 *Skobis Bros. Co. (Builders' Iron Work), 951 30th
 *Smith, A. O. Co. (Automobile Gears, Steel Frames), Park & Clinton
 *†Smith, Geo. H. Steel Casting Co. (Steel & Manganese Steel Castings), 500 Clinton
 *Smith Machine Co. (Concrete Mixers, etc.), 32d & Locust
 *SMITH, T. L. CO. (Concrete Mixer, etc.), Majestic bldg. (See adv. index & branch offices, end of book)
 *Smith & Post Co. (Cold Saws, Rock Crushers, etc.)
 *†South Side Steel & Malleable Casting Co. (Malleable Iron Founders)
 *†Spelch Stove Repair Co., 130 W Water
 *§Spence Mfg. Co. (Brass Fdrs. & Plumbing Goods), 279 Park
 *§Standard Brass & Iron Works (Brass Founders & Finishers)
 *Steam Appliance Co. (Steam Appliances), 245 Oregon
 *Stebling, Chas. H. Co., 508 Commerce
 *Steinbach & Kock, S. Canal & Muskego ave
 *Sterling Wheelbarrow Co. (Wheelbarrows)

*†Toepfer, W., & Sons (Iron Works), 76 Menominee
 *†§VILTER MFG. CO. (Corliss Engines, Ice Machines, Brewery & Bottling Machinery, etc.), 1046 Clinton. (See adv. index, end of book)
 *Wagner, Adolph F. (Builders' Iron Work), 514 Market
 *§Wamhold-Brunschweiler Co., 270 4th
 *Wangard, Jos. (Gas Machines), 3418 North ave
 *Welles, Fred A. (Calipers, etc.), 419 Sycamore
 *Western Fixture Co. (Display Fixtures, etc.), 573 E. Water
 *Windsor Mfg. Co., 570 Clinton
 *Wisconsin Bridge & Iron Co. (Steel Structural Work, etc.), Colby-Abbott bldg
 *†Wisconsin Foundry Co., 32d & Locust
 *§Wisconsin Iron & Wire Works
 *Wisconsin Machinery & Mfg. Co., Canal & Muskego
 *†§Wisconsin Malleable Iron Co.
 *Wisconsin Specialties Co. (Mach'y, etc.), 317 Milwaukee
 *Yale, H. P., & Co., 99 W. Water
 MONROE—*†Lanz, A. & Sons (Machinists)
 NEENAH—*†Ayward Sons Co.
 *†Bergstrom Stove Co. (Stoves)
 *Jamison, Robt. (Machinist)
 *Johnson Bros. Machine Co.
 *Johnson & Wells Machine Co.
 *§Neenah Brass Works
 NEILLSVILLE—*Wolff & Korman (Machinists)
 NEW HOLSTEIN—*Lauson, John Mfg. Co. (Gas & Gasoline Engines, etc.)
 NEW LONDON—*†Beyer, Geo.
 *†Madson, H. P.
 NORTH MILWAUKEE—*Avery Scale Co. (Scales of All Kinds)
 *†Wagner, E. R. Mfg. Co. (Baby Carriages, etc.)
 OCONOMOWOC—*†Moldenhauer, F. W.
 *Osen, Andrew (Threshing Machines, etc.)
 OOSTBURG—*†Oostburg Steel Foundry (Crucible Manganese Steel Castings)
 OSHKOSH—*†Barnes, J. A. Machinery Co.
 *†Challoner Co. (Mach'y)
 *†Curtis, E. C. Co. (Condensing Feed Water Heaters, etc.)
 *†§Davis-Hanson Co. (Pumps)
 *†Doman, H. C. Co. (Boats & Gasoline Engines)
 *Gillingham & Son (Machinists)
 *†Hayes, E. B. Machine Co. (Woodworking
 *Kaufman, Chas. & Saw Mill Mach'y)
 *Meelins, E. E. & H. T. (Slot Machines)
 *Oshkosh Tool Mfg. Co. (Logging Tools, etc.)
 *Ransom Mfg. Co. (Wet Tool Grinders)
 *†§Termaat & Monahan Co. (Gasoline Engines, etc.)
 *†Walker-Challoner Co. (Shingle, Heading & Box Board Machinery, etc.)
 *†Wilkin, Challoner & Co. (Saw Mill Machinery)
 PLATTEVILLE—*§Galena Iron Works Co. (See Galena, Ill.)
 *Keystone Driller Co. (See Beaver Falls, Pa.)
 PLYMOUTH—*†§Thurman, F. & Co. (See Galena, Ill.)
 *Wolff, Henry F.
 PORTAGE—*†§Baird & Slinger
 PORT WASHINGTON—*†§Gilson Mfg. Co.
 *†Martin Bros.
 *Western Implement Co. (Disc & Tool Grinders, etc.)
 *†§Western Malleable & Gray Iron Mfg.
 PRAIRIE DU CHIEN—*Beuthin, Chas. Co.
 PRINCETON—*Mueller, Eric
 RACINE—*Advance Mfg. Co. (Hdwe. Specialties)
 *American Mangle & Roller Co. (Laundry Machinery)
 *†American Skein & Foundry Co. (Jack Screws, etc.)
 *Atlas Mfg. Co.
 *Barker Feeder Co.
 *§Belle City Malleable Iron Co.
 *†§Belle City Mfg. Co. (Agl. Impls., etc.)
 *Bishop, A. W. & Son (Machinists & Fishing Reels, etc.)
 *†Brown, W. P. Mfg. Co. (Horse Bits, Hardware Specialties, etc.)
 *†§Case, J. I. Threshing Machine Co. (Agl. Impls.)
 *†§Case, J. I. Plow Works (Plows)
 *†Chalmers, Peter & Co.
 *Driver, C. H. (Sand Papering Machines)
 *†Foster & Williams Mfg. Co. (Agl. Impls., etc.)
 *Freeman, Geo. B. Mfg. Co. (Bits, Neck-yokes, etc.)
 *†§Freeman, S. & Sons Mfg. Co. (Agl. Impls., Windmills, etc.)

*Gorton, Geo. Machine Co. (Engraving Machines, etc.)
 *Harvey Spring Co. (Bolster Springs, etc.)
 *†Holbrook-Armstrong Iron Co. (Aluminum, Brass & Grey Iron Castings)
 *†Lakeside Malleable Castings Co.
 *†Mitchell & Lewis Co. (Machinists & Fdrs., Farm & Spring Wagons)
 *†§Pierce Engine Co.
 *Piggins Bros.
 *†§Racine Brass & Iron Co.
 *Racine Engine & Machine Co. (Confectionery Machinery & Vertical Engines)
 *Racine General Mfg. Co. (Hdwe. Specialties, etc.)
 *†Racine Malleable & Wrought Iron Co.
 *Racine-Sattley Co. (Agl. Impls., Wagons, etc.)
 *†Reliance Iron & Engine Co. (Gasoline Engines)
 *Rowlands Machine Co. (Moulding Mach'y.)
 *†§Standard Foundry Co.
 *Tecktonius, E. C. Mfg. Co. (Hoop, Lugs, Bolster Springs, etc.)
 *†Wood, Lyman Mfg. Co. (Stove Repairs, Saddlery, Hardware, etc.)
 RANDOLPH—*Nutting, C. A.
 *Smith, Geo. B.
 RHINELANDER—*†Rhineland Iron Co.
 RICE LAKE—*†§Peters, J. H.
 SCHLEISINGERVILLE—*†Rosche, John
 SEYMOUR—*†Dean Mfg. Co.
 *Latter Bros. Machine Co.
 SHEBOYGAN—*†Globe Fdry. & Machine Co. (Feed Cutters, Feed Mills, Saw Machines, etc.)
 *†Jenkins Machine Co. (Chair Mach'y & Bicycles, etc.)
 *†Kohler, J. M. Sons Co. (Cast Iron Enamel, Sanitary Ware & Castings)
 *Myers Machine Co.
 *Optenberg Iron Wks. Co. (Radial Drills, etc.)
 *†Vollrath, J. J. Mfg. Co. (Enamelled Sanitary Ware)
 SOUTH MILWAUKEE—*†Badger Malleable & Mfg. Co. (Malleable Iron Founders)
 *†§Bucyrus Co. (Steam Shovels & Dredges, etc.)
 *†§Stowell Mfg. & Fdry. Co. (Grey Iron Castings, Door Hangers & Hardware Specialties, etc.)
 SPARTA—*†Sparta Iron Works Co.
 SPRING VALLEY—*†Kemke, Ferdinand
 STEVENS POINT—*†Comee Metallic Packing Co. (Metallic Packing, etc.)
 *†§Cook, R. A. (Iron & Brass Fdry. & Saw Mill Machinery, etc.)
 *†§Rice, John, Foundry & Machine Works
 *Sustins, F. A., & Co.
 STOUGHTON—*†Mandt Wagon Co.
 *†Stoughton Wagon Co. (Plows, etc.)
 STURGEON BAY—*Hunsader, John Machine Co.
 *†Ives, Wallace Co.
 SUPERIOR—*†Duplex Mfg. Co. (Windmills & Engines, etc.)
 *Northwestern Machine Works
 *†§Superior Iron Works (Engines & Dredging Mach'y, Iron & Brass Castings, Swinging Engines, etc.)
 *†Superior Ship Building Co. (Ships & Marine Engines, etc.)
 *†U. S. Cast Iron Pipe Foundry Co. (See New York City)
 *†Wright Foundry & Machine Works
 TOMAHAWK—*†§Tomahawk Iron Works
 TWO RIVERS—*†Becker Mfg. Co.
 *†Kahlenberg Bros. (Machinists)
 WALDO—*†Hein & Timmer
 WASHBURN—*Steinert, R. & Co.
 WATERTOWN—*Biefeld, O. & Co.
 *†§Brandt-Dent Co. (Gas Fixtures, etc.)
 *†Dornfeldt-Kunert Co.
 *†M. Mfg. Co.
 WAUKESHA—*†Blair Bros.
 *Ladewig Stock Co.
 *†Modern Steel Structural Co. (Cranes & Steel Structures)
 *†Waukesha Malleable Iron Co.
 *Waukesha Motor Co. (Auto Motors)
 WAUPACA—*Hanson, A. M.
 *†Rosche & Suks
 WAUPUN—*†§Althouse-Wheeler Co. (Windmills & Pumps, etc.)
 WAUSAU—*†§Murray, D. J. Mfg. Co. (Saw Mill Machinery)
 *†Wausau Foundry & Machine Shop
 WEST ALLIS—*†§Allis-Chalmers Co. (Corliss Engines, Mining Mach'y, etc.)
 *†Gerllinger Steel Casting Co. (Steel Castings, etc.)
 *†§Prescott, F. M. Steam Pump Co. (Pumping Machinery, etc.)
 *†West Allis Malleable Iron & Chain Belt Co. (Chain Belt & Malleable Iron Castings)

WEST BEND—*Gehl Bros. Mfg. Co. (Agrl. Impls., Grey Iron Castings, etc.)
 WEYAUWEGA—*Halre, James A.
 WHITEWATER—*Whitewater Machy. Co. (Agrl. Impls., etc.)
 YORKVILLE—*Gilmore, Howard S.

Machinists' Tools & Supplies (Dealers)

(See also Mill & Factory Supplies)
 (For Manufacturers of Machinists' Tools & Supplies, see the Specific Article Required)

CALIFORNIA.

LOS ANGELES—Wigmore, Jno. & Sons Co.
 SAN FRANCISCO—Alexander-Yost Co. (Tools), 401 Market
 Compressed Air Machinery Co., 24 1st
 Harron, Richard & McCone, 21 Fremont
 Henshaw, Bulkley & Co., Fremont & Mission
 Hicks, Jas. L., 607 Mission
 Pacific Tool & Supply Co., 105 1st
 Faber-Bigelow Co. (Inc.), 113 Main
 Tatum & Bowen, 34 Fremont

COLORADO.

DENVER—Hendrie & Botthoff Mfg. & Supply Co.
 Scott Supply & Tool Co., 1725 Blake

CONNECTICUT.

BRIDGEPORT—Hawley, T. & Co., 549 Water
 Lyon & Grumman, 1023 Main

DISTRICT OF COLUMBIA.

WASHINGTON—Lamble, Jas. B. Co. (Inc.) (Fine Tools, etc.), 1415 New York av, N W

GEORGIA.

AUGUSTA—Lombard Iron Works & Supply Co

ILLINOIS.

BLOOMINGTON—Read, G. H. & Bro.
 CAIRO—Reed, J. B.
 CHICAGO—Banner, Thos. B., 57 Kinzie
 Besley, Chas. H. & Co., 15 N Canal
CARPENTER, GEO. B. & CO., 202
 S Water. (See adv. index, end of book)
 Chicago Machine Tool Co. (Machine Tools & Machinery)
 Crerar, Adams & Co., 11 5th av
 Harris, Samuel & Co., 25 S Clinton
 Henion & Hubbell, 63 N Jefferson
 Hill, Clarke & Co., 12 S Canal
 Hodge & Homer Co., 47 W Randolph
 Kerr, J. W. Co., 44 Jefferson
 McLeod Co., 73 Fulton
 Machinists' Supply Co., 16 S Canal
 Manning, Maxwell & Moore, 22 S Canal
 Marshall & Huschart Machinery Co., 62 S Canal
 Scully Steel & Iron Co., Halsted & Weyman Sta.
 Seehausen, Wehrs & Co., 43 Franklin
 Walsh, Jno. F., 25 W Lake
 Whitehead, Jos. H. Co., 30 S Canal
 JOLIET—Barrett Hardware Co.

MAINE.

PORTLAND—Edwards & Walker Co. (Tools, etc.)

MARYLAND.

BALTIMORE—Aumen Machinery & Supply Co., 324 N Holliday
 Basshor, T. C. Co., 28 Light
 Brown, Jno. & Sons, 722 E Pratt
 Carey Machinery & Supply Co.
 Coggins & Owens, 19 S Charles
 Crook-Horner Co.
 Cuyler & Mohler, 611 William
 Spedden Supply Co., 913 S B'way
 Wallace & Gale
 CUMBERLAND—McKalg, Merwin

MASSACHUSETTS.

BOSTON—Brown Wales Co. (Supplies), 83 Purchase
 Chandler & Farquhar Co., 36 Federal
 Chase Parker & Co., 81 Pearl
 Cutter, Wood & Stevens Co., 68 Pearl
 Dodge, Haley & Co., 212 High
 Flitts, Frank E. Mfg. & Supply Co., 88 Purchase
 Flitz, Dana & Co., 110 North
 Hill, Clarke & Co.
 Jewett, J. D. Co. (Hardware, Tools & Supplies), 168 Wash'n
 Manning, Maxwell & Moore, Franklin & Oliver
 Wilkinson, A. J. & Co. (Hardware, Tools & Supplies), 180 Wash'n

MICHIGAN.

BAY CITY—Jennison Hdw. Co.
 DETROIT—Bush-Campbell Co.
 Detroit Edge Tool Works, Wight & Mt Elliott av
 Motch & Merryweather Machinery Co. (Machinery & Tools), 707 Lakeside av
 Rayl, T. B. Co., 112 Woodward av
 Strelinger, Chas. A. Co., 98 Bates
 Woodbridge & Coellus Mach. Co., 127 Brush
 Wormer, C. C., Machinery Co., 97 Woodbridge

MINNESOTA.

MINNEAPOLIS—Morison, W. K. & Co., 249 Nicollet av, Minneapolis, Minn.
 Northern Machinery Co., 217 S 3d
 ST. PAUL—Robinson & Cary Co., 4th & Wacouta

MISSOURI.

KANSAS CITY—Branner, H. J. Hardware Co., Great Western Mfg. Co., 910 Walnut
 Lewis Supply Co.
 ST. LOUIS—Bowman, Albert B., 720 N 2d
 Cahill, Swift Mfg. Co., 20 S 12th
 Colcord, W. R. Machinery Co., 821 N 2d
 Crane Co. (Est. 1855). (See adv. index & branch offices, end of book)
FAIRBANKS, MORSE & CO. (See adv. index, end of book)
 Handlan-Buck Mfg. Co., 212 N 3d
 Johnson, Wm. C. & Sons, 513 N 2d
 Linley, E. H., Supply Co., 714 N 2nd
 Manning, Maxwell & Moore, 305 Frisco bldg
 Nelson, N. O., Mfg. Co.
 Rumsey, L. M. Mfg. Co., 806 N Main
 Rumsey & Sikemeier Co., 1900 Pine
 Simmons Hardware Co., B'way & St. Charles

St. Louis Machinists' Supply Co., 421 Frank-
 Silgo Iron Store Co., 945 N 2d
 Thompson, C. A. (Machines & Tools), 516 N 3d
 Western Iron & Supply Co., 938 N 2d

NEW JERSEY.

NEWARK—Macknet & Doremus, 796 Broad
 Roe & Conover, 200 Market
WALSH'S SONS & CO. (See adv. index, end of book)

NEW YORK.

BUFFALO—Beals & Co., 44 Terrace
 Budd, T. A., 428 Ellicott sq
 Buffalo Wholesale Hardware Co., Wash'n & Fairbanks Co., 210 Main S Division
 Hoffeld, R. & Co., 65 Carroll
 New England Machinery Co., 101 Erie
 Ruckel, J. H., & Son, 81 Main
 Walbridge & Co., 392 Main
 Weed & Co., 292 Main

Borough of Brooklyn.

BROOKLYN—Birkett, Wm. H., 68 Myrtle av
 Metropolitan Supply Exchange & Mfg. Co., 26 Court
 Purvis & Shelton, 241 Plymouth
 Wilfert, Jno. & Co., 490 Bushwick av

Boroughs of Manhattan & Bronx.

NEW YORK—**BEGGS, JAS. & CO., 109**
 Liberty (See adv. index, end of book)
 Behringer, Edw. A., 80 Warren
 Chatwin, Alfred, Supply Co., 149 Centre
 Dixon, Wm. (Inc.) (Fine Tools & Supplies of all kinds), 39 John
DONEGAN & SWIFT, 6 Murray. (See adv. index, end of book)
 Du Bois, F. N. & Co., 245 9th av
 Eustace, Edw. C., 54 Center
 Fairbanks Co., 186 Lafayette
 Foster, Walter H., 126 Liberty
 Fox Bros. & Co., 126 Lafayette
 Frasse Co., 30 Church
FRASSE, PETER A. & CO., 139
 Worth. (See adv. index, end of book)
FREVERT MACHINERY CO., 18
 Dey. (See adv. index, end of book)
G. & W. MFG. CO., 26 Cortlandt.
 (See adv. index, end of book)
 Garvin Machine Co., 137 Varick
HAMMACHER, SCHLEMMER &
 Co., 133 4th av. (See adv. index, end of book)
 Hussey, E. J. & Co., 80 John
 Hussey, McCann & Co., 37 Dey
 Knox & Bro., 96 John
 Leonard & McCoy, 161 Wash'n
 McCabe, J. J., 30 Church
 Manning, Maxwell & Moore, 85 Liberty
 Montgomery & Co., 105 Fulton
 Niles-Rement-Pond Co., 111 B'way
PATTERSON, GOTTFRIED &
 Hunter (Ltd.), 211 Centre
PRENTISS TOOL & SUPPLY CO.,
 115 Liberty. (See adv. index, end of book)
 Reichhelm, E. P. & Co., (Tools, Files & Supplies), 24 John
ROGERS, HENRY A. CO., 19 John.
 (See adv. index, end of book)

IF YOU ARE IN DOUBT AS TO THE
 ORIGINAL MANUFACTURER OF
 ANY MACHINE OR TOOL ON WHICH
 THE PATENTS HAVE EXPIRED, THAT
 ARE NOW BEING EXPLOITED BY MANY
 MAKERS, ASK HENDRICKS.

Rossiter, Macgovern Co. (Electrical Machinery), 17 Battery pl
Schuchardt & Schutte, (Exporters & Importers), 90 West
Sherman Brown Clements Co., 78 Murray
STRONG MACHINERY & SUPPLY
Co., 48 Franklin. (See adv. index, end of book)

Tucker, Cummings H., Jr., 135 Greenwich
White-Van Glahn Co., Chatham sq.
(End of New York City)

SYRACUSE—Syracuse Supply Co.

Wood, C. H. Co., 401 S Clinton

UTICA—Dent, M. F., 81 Wash

Holdredge, Burton, 48 Catherine

Utica Drop Forge & Tool Co., Half Way Bridge

NORTH CAROLINA.

CHARLOTTE—Charlotte Supply Co.
Textile Mill Supply Co.

OHIO.

CINCINNATI—Bell, Thos. J., 53 Main

Boebinger Hardware Co., 315 E Pearl

Economy Machinery Co. (J. H. Flynn, Prop.) (New & Second Hand Lathes, Planers, Drills, etc.), 428 E Pearl

Kinsey, E. A. Co. (Drills, Lathes, Shapers, Grinders, Boring & Milling Machines), 331 W. 4th

Motch & Merryweather Machinery Co. (Machinery & Tools)

Pickering Hardware Co., 5th & Main

Queen City Supply Co., 201 W Pearl

CLEVELAND—Bingham, W. Co., 1433 W. 9th

Cleveland Tool & Supply Co.

McIntosh Hardware Corp., 116 Superior

Manning, Maxwell & Moore, Williamson bldg

McIntosh Hardware Corporation, 725 Superior

Motch & Merryweather Machinery Co. (Machinery & Tools)

PATTISON, W. M. SUPPLY CO., 197-211

St. Clair av. (See adv. index, end of book)

STRONG, CARLISLE & HAMMOND

Co., 336-344 Frankfort av., N. W. (See adv. index, end of book)

White, Frank C. Tool & Supply Co., 1313

DAYTON—Dayton Supply Co., W 6th, N W

Larkin, M. D. Supply Co.

Patterson Tool & Supply Co.

HAMILTON—Hamilton Supply Co. (Fine Tools, etc.)

SPRINGFIELD—Springfield Hardware Co.

TOLEDO—Laskey, Elmer W.

OREGON.

PORTLAND—Avery & Co., S3 2nd

PENNSYLVANIA.

PHILADELPHIA—Blickerton, Thos. B., 12 N

Billany & Cochrane, 527 Commerce 5th

Billington, Jas. H. Co., 113 Chestnut

Bond, Chas., 520 Arch

Bullock, Chas. K., 136 Ridge av

Donlevy, Frank L. & Co. (Tools, etc.), 833 Arch

Field's, Chas. J. Sons (Tools, etc.), 633

Fraser, E. L., 622 Arch Market

Girard Machine & Tool Co., 491 N 3d

Haddock, Chas., 343 N 3d

Hankey, A. & Co., 2233 Vine

Hill-Clark Co., Phila. Bourse

Insley, John E., 13 N 6th

Jones & Rogers, 327 New

Lovegrove & Co. (Machines & Tools), 143

McFadden, Jno. W., 40 N 4th

Machinists' Supply Co., 109 Water

Maddock & Co., 40 N 6th

Manning, Maxwell & Moore, 721 Arch

Pennsylvania Machinery & Supply Co.

Powell, Clouds & Co., 602 Arch

Ralnear, C. J., & Co., 518 Arch

Sees & Faber, 2008 N Front

Seyfert's, L. F. Sons, 437 N 3d

Shipley, W. E., Phila. Bourse

Steel, Percy R., 609 Commerce

Toomey, Frank, 127 N 3d

Vance, Jas. M. & Co., 211 Market

Williamson & Cassedy, 526 Market

Woodfield, Jos., 307 S 2nd

PITTSBURG—Baird Machinery Co. (All Kinds of Machine Tools, Hoists, Drills, etc.), 123 Water

Frick & Lindsay Co., 109 Wood

Logan-Gregg Hdw. Co., 125 7th

Manning, Maxwell & Moore, Park bldg

Pittsburg Supply Co., 226 1st av

PRENTISS TOOL & SUPPLY CO.,

120 1st av. (See adv. index, end of book)

Smith, Chas. G. Co., 347 5th av

Somers, Fittler & Todd, 327 Water

Turner, Chas. A. (Fine Tools, etc.), 14 Market

READING—Bright & Co. (Tools, etc.)

SCRANTON—Scranton Supply & Machinery Co.

WILKES-BARRE—Penna. Supply Co., 60 S Canal

WILLIAMSPORT—Darling Pump & Mfg. Co.

RHODE ISLAND.

PROVIDENCE—American Supply Co.

Brown & Sharp Mfg. Co.

Thomas & Lowe Machinery Co.

NORTH CAROLINA.

GREENVILLE—Carolina Supply Co.

TENNESSEE.

CHATTANOOGA—James & Co.

VIRGINIA.

RICHMOND—Bargamln, G. & A. Co., 14 S 9th

McGraw, Jas., 1440 E Main

Southern Railway Supply Co., 9th & Cary

WASHINGTON.

SEATTLE—Holley, Mason, Marks & Co.

WEST VIRGINIA.

CHARLESTON—Capitol City Supply Co.

WISCONSIN.

MILWAUKEE—Packard, O. L. Machinery Co., 133 W Water

Mackintoshes

La Crosse Rubber Mills Co., La Crosse, Wis.

Magnesite (Calcined)

Federal Refractories Co., Cleveland, O.

Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa.

Whittaker, W. H. (Lump & Powdered), 245

Front, New York

Magnesite (Crude)

Hammlil & Gillespie, 240 Front, New York

Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburg, Pa.

Magnetos (Sparking)

(See Igniters, Gas & Gasoline Engine)

Magnetos (Telephone)

Sumter Telephone Mfg. Co., Sumter, S. C.

Magnetos (Testing)

Holtzer-Cabot Elec Co., Brookline, Mass.

Magnets

(See Magnets, Lifting)

Magnets (Electro)

Acme Wire Co. ("Varley Duplex"), New Haven, Conn.

American Electrical Works, Phillipsdale, R. I.

Ansonia Electrical Co., Ansonia, Conn.

CUTLER-HAMMER MFG. CO., Milwaukee,

Wis. (See adv. index & branch offices, end of book)

ELECTRIC CONTROLLER & MFG. CO.

(Lifting), Cleveland, O. (See adv. index & branch offices, end of book)

Glaenger & Co. (Imported), 43 W 33d, New York

Hall, Arthur W. Scientific Co., Boston, Mass.

Manhattan Elec. Sup. Co., 17 Park pl., N. Y.

Spltdorf, Chas. F., 261 Walton av., New York

Western Electric Co., Chicago, Ill.

Magnets (Lifting)

Browning Engineering Co., Cleveland, O.

CUTLER-HAMMER CLUTCH CO., Milwaukee,

Wis. (See adv. index & branch offices, end of book)

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THE ELECTRIC CONTROLLER & MFG. CO., Cleveland, Ohio

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Our business has grown with and has been an essential feature of, the development of the tall building. From the Produce Exchange, seven stories, in 1885 to the Metropolitan Tower, forty-one stories, in 1908, all the important buildings, making steps in this advance, are built around CUTLER MAIL CHUTES.

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THE CUTLER MANUFACTURING CO.
ROCHESTER, N. Y.

Magnets (Solenoid)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Ideal Electric & Mfg. Co. ("Ironclad"), Mansfield, O.

Mail Catchers (Railway)

Taylor & Boggis Foundry Co., Cleveland, O.

Mail Chutes for Buildings

Automatic Mail Delivery Co., Times bldg (42d & B'way), New York
CUTLER MFG. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)
U. S. Mail Shute Equipment Co. ("Security"), Fullerton bldg., St. Louis, Mo.

Mailing Cases for Liquids

Redlich Mfg. Co., 2 Oak, Chicago, Ill.
Western Box Co., 42 River, Chicago, Ill.

Malleable Foundry Plants

(See Foundry Plant Equipments)

Mallets (Calking)

Doscher Plane & Tool Co., Saugatuck, Conn.
Mack & Co., Rochester, N. Y.
Union Hardware Co., Torrington, Conn.
White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

Mallets (Lignumvitae)

Seib Bros., Jersey City, N. J.

Mallets (Rawhide)

Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago, Ill.

Greene, Tweed & Co. ("Colin"), 109 Duane, New York
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Holbrook Rawhide Co., Providence, R. I.
United Awl & Needle Co., Boston, Mass.

Mallets (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
Goodrich, B. F., Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Morgan & Wright (Inc.), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
Peerless Rubber Co., 16 Warren, New York
PENNSYLVANIA RUBBER CO. (With Hickory Handles), Jeannette, Pa. (See adv. index & branch offices, end of book)
Revere Rubber Co., 77 Bedford, Boston, Mass.
Wilkie Rubber Mfg. Co., Saugus, Mass.

Mallets (Wooden)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
Boston & Lockport Block Co., Boston, Mass.
Brighton Specialty Co. (Heel), Manchester, N. H.
Delphos Mfg. Co. (Tinnars, etc.), Delphos, O.
Doscher Plane & Tool Co. (Carpenters', Tinnars', Carvers', Stone Cutters', etc.), Saugatuck, Conn.
Hardware & Woodenware Mfg. Co., 693 Broadway, New York
Hellenberg & Son (For Stone Cutters, Carpenters, Tinnars, etc.), Coldwater, Mich.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Indiana Small Handle Works, Fort Wayne, Ind.
Osborne, C. S. & Co. (Dogwood & Lignumvite), Harrison, N. J.
Piqua Handle & Mfg. Co., Piqua, O.
Redlich Mfg. Co., 2 Oak, Chicago, Ill.

Sandusky Tool Co., Sandusky, O.
Sommer's, John Son, 355 Central av, Newark, N. J.
Stanley Rule & Level Co., New Britain, Conn., & 107 Chambers, New York
Union Hardware Co., Torrington, Conn.
Williams & Marvin Mfg. Co., Deep River, Conn.

Malt Kiln Floors

Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Schillinger Bros. Co., 215 City Park av., Toledo, O.
SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
Sicilian Asphalt Paving Co., 41 Park Row, New York
Toepfer, W., & Sons, 88 Menomonee, Milwaukee, Wis.

Malt & Ice House Builders

American Bridge Co., 42 B'way, New York
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Phoenix Iron Co., 410 Walnut, Phila. Pa.
Saladin Pneumatic Malting Construction Co., 59 S Clinton, Chicago, Ill.
SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O. (See adv. index, end of book)

Mandrels

Adams Co., Dubuque, Ia.
American Foundry & Mfg. Co., St. Louis, Mo.
Block-Pollak Iron Co., Carthage, Cincinnati, O.
CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)
Le Count, Wm. G., South Norwalk, Conn.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.
Pratt & Whitney Co., Hartford, Conn.
Putnam Machine Co., Fitchburg, Mass.
Rogers, John M. Works, Gloucester City, N. J.

Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
Standard Tool Co., Central av & P. Ry., Cleveland, O.

Standish, Albert, 120 W Spring, Columbus, O.
Stauffer, Geo. E., E Stroudsburg, Pa.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Mandrels (Blacksmiths')

(See Cones, Blacksmiths')

Mandrels (Expanding)

Le Count, Wm. G., South Norwalk, Conn.
McCroskey Reamer Co. (Inc.), Meadville, Pa.
Nicholson, W. H. & Co. (Lathe), Wilkes-Barre, Pa.

Western Tool & Mfg. Co. ("Champion"), Springfield, O.

*Mandrels (Hardened & Ground)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Mandrels (Saw)

American Woodworking Machinery Co., Rochester, N. Y., & West st. bldg., New York
Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
Cordesman Machine Co., Cincinnati, Ohio.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Emerson, Smith & Co., Beaver Falls, Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Fay, J. A. & Egan Co., Front & John, Cincinnati, O.
Hobbs Mfg. Co., Worcester, Mass.
Hoe, R. & Co., 506 Grand, New York
Lippert, E. T., Saw Mfg. Co., Bennett, Pa.
National Saw Co., Middletown, N. Y., & New-Ober Mfg. Co., Chagrin Falls, O.
Reed, Jos. B., Calro, Ill.
Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York

Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
Southern Saw Works (Circular Saw), Atlanta, Ga.
Standish, A., 120 W Spring, Columbus, O.
Union Iron Works, Bangor, Me.
Wheland Machine Works, Chattanooga, Tenn.

Mandrels (Taper)

Brown & Sharpe Mfg. Co., Providence, R. I.
Comstock, Geo. S., Mechanisburg, Pa.

MORSE TWIST DRILL & MACHINE Co. (with Expanding Sleeve), New Bedford, Mass. (See adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn.
Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Mandrels or Cones (Blacksmiths')

Illinois Iron & Bolt Co., Carpenterville, Ill.
Southern Skein & Foundry Co., Chattanooga, Tenn.

Swett, A. L. Iron Works, Medina, N. Y.

Manganese

Cooper, Chas. & Co., 194 Worth, New York
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)

Baker & Adamson Chemical Co. (Salts), Easton, Pa.

Behrend, F. (Chloride), 54 Front, New York
Billings-Clapp Co. (Salts), 178 Freeport, Boston, Mass.

Chrystal, Chas. B., 116 John, New York
Davis, Jos. M., Philadelphia, Pa.

Ferguson Bros., 109 Chestnut st., Philadelphia, Pa.

Feuchtwanger & Co. (Salts), 54 Fulton, New York

Goldschmidt Thermit Co., 90 West, New York
Harshaw, Fuller & Goodwin Co., Electric bldg., Cleveland, O.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Klipsteln, A. & Co., 122 Pearl, New York
Lamson & Bro., Jno. S. (Imptrs. & Dirs.), 84 William, New York

Lee & Co., James, 76 William, New York

LUMEN BEARING CO., Buffalo, N. Y. (See adv. index, end of book)

McKesson & Robbins, 91 Fulton, New York

Mallinekrodt Chemical Works (Salts), St. Louis, Mo.

National Paint & Manganese Co. (Miners & Grinders), Lynchburg, Va.

Pennsylvania Salt Mfg. Co. (Salt), Philadelphia, Pa.

Powers-Weightman Rosengarten Co. (Salts), Philadelphia, Pa.

Roessler & Hasslaeher Chemical Co. (Chloride, Oxide, Sulphate, etc.), 100 William, New York

Samuel, Frank (Firm of), 1502 Market, Phila., Pa.

Southern Manganese & Steel Co., Atlanta, Ga.

Staleys Creek Manganese & Iron Co., Marion, Va.

Thomsen Chemical Co. (Carbonate), Baltimore, Md.

Tennant, C., Sons & Co., 76 William, New York

Wiarda, Jno. C. & Co. (Oxide Salts), Brooklyn, N. Y.

Wegelin & Wilckes Black Mfg. Co., 135 William, New York

Manganese Bronze Castings

American Brass & Aluminum Co., Indianapolis, Ind.

Bastian, C. L. Mfg. Co., 76 Illinois, Chicago, Ill.

Blake, Edwin J., Hartford, Conn.

Chapman, J. B. & Co., Springfield, Mass.

Clum & Atkinson, Rochester, N. Y.

Cramp, W. & Sons Ship & Engine Building Co. (Parsons), Phila., Pa.

Crown Smelting Co., Chester, Pa.

Eynon-Evans Mfg. Co., 1509 Clearfield, Philadelphia, Pa.

GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av, Philadelphia, Pa. (See adv. index & branch offices, end of book)

Lehigh Valley Cornice Works, Bethlehem, Pa.

LUMEN BEARING CO., Buffalo, N. Y. (See adv. index, end of book)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

New London Marine Iron Works, New London, Conn.

Norwalk Brass Co., Norwalk, Conn.

Reeves, Paul S. & Son, 1413 Catharine, Philadelphia, Pa.

Ryan, J. J. & Co., 105 S Jefferson, Chicago, Ill.

Sherwood Brass Works, Detroit, Mich.

Union Iron Works Co., San Francisco, Cal.

Williams, E. A. & Son, 105 Plymouth, Jersey City, N. J.

Manganese Bronze (Parsons')

Cramp, Wm. & Sons Ship & Engine Building Co., Phila., Pa.

Taunton-New Bedford Copper Co., Taunton, Mass., & New Bedford, Mass.

Manganese Copper

Metal Mfg. Co., Land Title bldg, Phila., Pa.

Metallie Alloys Co., 32 Cortlandt, New York

Western Foundry Supply Co., 30 Church, New York

Manganese Ore

(See Ores, Manganese)

Mangles (Ironing)

(See Laundry Machinery)

Manheads, Yokes, Etc. (Pressed Steel)

Central Iron & Steel Co., Harrisburg, Pa.

Glasgow Iron Co., Pottstown, Pa.

Lukens Iron & Steel Co., Coatesville, Pa.

Worth Bros. Co., Coatesville, Pa.

Manhole Covers

American Brake Shoe & Foundry Co., Mahwah, N. J.

Anderson W. H., Tool & Supply Co., 14 Macomb, Detroit, Mich.

Barber Mfg. Co., Ashtabula, O.

Belmont Iron Works, 22d & Washington av, Phila., Pa.

Bethlehem Foundry & Machine Co., S Bethlehem, Pa.

Buckeye Foundry Co., 2257 Buck, Cincinnati, O.

Builders' Iron Foundry, Providence, R. I.

Burr, E. M. & Co., Champaign, Ill.

Caldwell, E. R. & Co., Bradford, Pa.

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Carmody, J. T., Cedar Rapids, Ia.

CARLIN'S, THOS. SONS CO. (And Sewer Castings), 1610 River av, North Side

Pittsburg, Pa. (See adv. index, end of book)

Casey-Hedges Co., Chattanooga, Tenn.

Chattanooga Car & Foundry Co., Chattanooga, Tenn.

Clow, Jas. B. & Sons, 344 Franklin, Chicago.

Coffin Valve Co., Neponset, Boston, Mass. Ill.

Coldwell-Wilcox Co. (Also Pivot), Newburgh, N. Y.

Concord Foundry & Machine Co. (Also Grates & Traps), Concord, N. H.

Co-Operative Foundry Co. ("Stuart's Safety" Manhole), Detroit, Mich.

Davis & Thomas Co., Catsauqua, Pa.

Davidson Foundry Co., East Chicago, Ind.

Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.

Dimmick Pipe Co., Birmingham, Ala.

DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, & 82 Warren, New York. (See adv. index & branch offices, end of book)

Drummond, M. J. & Co., 182 B'way, New York

Enterprise Foundry Co., 48 Olean, Rochester, N. Y.

Eureka Foundry Co., Rochester, N. Y.

Firth, Roland & Son, Phillipsburg, N. J.

Greger Mfg. Co. (Asphalt Filled), 22d & Wash'n av, Phila., Pa.

Hay Foundry & Iron Works, Newark, N. J.

Hayes Foundry Co., Lynn, Mass.

Holbrook-Armstrong Iron Co., Racine, Wis.

Kramer Bros. Foundry Co., Dayton, O.

Kuhns Bros., Dayton, O.

McDonald Bros., Columbus, O.

MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Madison Foundry Co., Cleveland, O.

Maher & Flockhart, 60 Polk, Newark, N. J.

Metzalf, Jas. & Co., 126 Polk, Newark, N. J.

MEYERS, FRED. J. MFG. CO., Ham-ilton, O. (See adv. index, end of book)

Millar, Chas. & Son Co., Utica, N. Y.

MINNEAPOLIS STEEL & MACHIN-ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Modern Iron Works, Quincy, Ill.

Muncie Foundry & Machine Co., Muncie, Ind.

Northwestern Foundry, Minneapolis, Minn.

Palmer, C. F., Utica, N. Y.

Paxton & Vierling Iron Works, Omaha, Neb.

Rempes & Gallmeyer Fdy. Co., Grand Rapids, Mich.

Russell, Albert & Sons Co., Newburyport, Mass.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Sessions Foundry Co. (Subway, etc.), Bristol, Conn.

South Bend Foundry Co., South Bend, Ind.

South Park Foundry & Machine Co., Gilfillan blk, St. Paul, Minn.

Springfield Foundry Co., Springfield, Mass.

Steiger & Kerr Stone & Foundry Co., San Francisco, Cal.

Stiles Foundry & Supply Co., Parkersburg, W. Va.

Swett, A. L. Iron Works, Medina, Wis.

Thompson, J. & Co., e Van Horn & Sopha, Phila., Pa.

Toledo Foundry & Machine Co., Toledo, O.

U. S. Cast Iron Pipe & Foundry Co., 317 La Salle, Chicago, Ill.

Wallace Machine & Foundry Co., Lafayette, Ind.

WHEELER, CHARLES CHILD, 113 B'way, New York. (See adv. index, end of book)

Manholes (Flanged)

Glasgow Iron Co., Pottstown, Pa.

Ryerson, Jos. T., & Son, Chicago, Ill.

Seully Steel & Iron Co., Chicago, Ill.

Worth Bros. Co., Coatesville, Pa.

Manicure Sets

Havell Mfg. Co., Newark, N. J.

Ross, Jos., Jr., & Co., Newark, N. J.

Schnefel Bros., 51 4th, Newark, N. J.

Manometers

Simplex Valve & Meter Co., 112 N. Broad, Phila., Pa.

Mantel, Grate & Tile Dealers

ALABAMA.

BIRMINGHAM—General Mosaic Tile Co.
Moore & Handley Hardware Co.
DECATUR—Wyker, J. D.
MOBILE—Builders' Supply Co.
Price, H. M. & Co.
MONTGOMERY—Bogacki, C. Y.
Kennedy Co.
SELMA—Robbins, J. H. & Sons Hardware Co.
TUSCALOOSA—Allen & Jemison Co.
Leland Hardware Co.

ARIZONA TERRITORY.

PHOENIX—Davidson, O. H. & Co.

ARKANSAS.

HELENA—Tappan, J. A. Hardware Co.
LITTLE ROCK—Arkansas Pump & Pipe Co.
MAGNOLIA—Davis & Warnock
TEXARKANA—Chatfield & Buhrman Hardware Co.
Texarkana Hardware Co.

CALIFORNIA.

FRESNO—Barrett-Hicks Co.
LOS ANGELES—Collins, B. V., 928 S Main
Frey, J. W., 1150 So. Los Angeles.
Harper & Reynolds Co., 152 N. Main
Los Angeles Mantel & Tile Co., 623 S. Spring
Montague, W. W. & Co., 124 N. Los Angeles
Nash, Carl Enos Co., 716 S. Spring
Peterson, B. E., 1318 S. Main
OAKLAND—Howden, R., 1061 Webster
Kelly, J. F., 725 7th
PASADENA—Pasadena Mfg. Co.
SAN FRANCISCO—Bateman, Wm., 1913 Bryant
Bennett, E. D. & Co., 2751 16th.
Clawson, L. E. & Co., Golden Gate av. &
Emanuel, L. & E., 144 12th Leavenworth
Holbrook, Merrill & Stetson, 6th & Townsend
Lowry & Daly, 1553 Page
Mangrum & Otter, 561 Mission
Montague, W. W. & Co., 644 Polk
Rehn, Charles, 2034 Mission
Rigney, Thomas F., 2564 Market
SAN JOSE—Mangrum & Otter Co.
Stock's, John Sons.

COLORADO.

DENVER—Backus Heating Co., 415 17th
Cook, T. W. & Co., 1623 Tremont
Denver Mantel & Tile Co., 1652 Tremont
Gustafson Plano & Mantel Co., 725 18th
Minott-Groff & Co., 1855 Welton
Paulson, John P., 15th & Wyukoop
Sayre-Newton Lumber Co., 23d & Blake
PUEBLO—Holmes Hardware Co.
Killin, John M. & Co.

CONNECTICUT.

BRIDGEPORT—Burritt, A. W. Co.
Band, G. P. & Co., 107 Middle
HARTFORD—White & Whitmore, 424 Asylum
NEW HAVEN—Ahern, Thomas F. & Co., 182
Franklin
Chamberlain Furniture & Mantel Co., 46
Connecticut Marble & Tile Co., Orange
Corbett, T. W., 29 B'way
NEW LONDON—Pierce, E. B.
NORWICH—Crowell, Fred. C.
Gilbert, N. S. & Sons
Porter, H. B. & Son Co.
TORRINGTON—Hotchkiss Bros. Co.
WATERBURY—Jackson, Chas. A. & Co., 270
Bank
Jackson, Thos. F., 312 Bank

DELAWARE.

WILMINGTON—Simmons & Bro., 102 W. 5th

DISTRICT OF COLUMBIA.

WASHINGTON—American Mosaic Co., 1241
Barber & Ross, 11th & G., N. W. 7th av
Corning, John Herbert, 520 13th, N. W.
Dodson & Hodgson, 822 13th, N. W.
Donnelly, John, Jr., 215 12th, N. W.
Ellett, Edwin E., 230 4th, S. W.
Hutchinson, Wm. S., 1311 H. N. W.
Hutchinson & Harbin, 211 12th, N. W.
National Mosaic Co., 338 Pennsylvania av.,
N. W.
Smith Thos. W., 1st & Indiana av., N. W.

FLORIDA.

JACKSONVILLE—Clark, Geo. W. Co.
Southern Marble & Stone Co.
PENSACOLA—Johnson, Wm. & Son.

GEORGIA.

ATLANTA—Hunnleutt, J. E., & Co.
AUGUSTA—Evans, John J.
Slusky, David
Tarver, J. E.
BRUNSWICK—Anderson, Wm. C.
MACON—Burke, T. C.
Merritt Hardware Co.
Wilder's, R. C. Sons Co.
Willingham Sash & Door Co.
SAVANNAH—Peeples, H. H. & Sons
Semmes Hardware Co.
Weed, J. D. & Co.

HAWAII.

HONOLULU—Lewers & Cooke, Ltd.

ILLINOIS.

BEARDSTOWN—Van Fossen, S. L.
BLOOMINGTON—Holder Hardware Co.
Keiser-Van Leer Co.
Poppo, M. L.
Read, G. H. & Bro.
CAIRO—Woodward Hardware Co.
CARLINVILLE—Woodward, S. S. Hdw. Co.
CHICAGO—Chicago Mosaic & Tiling Co., 501
State
Colonial Fire Place Co., W 12th & 46th av
Davis Marble Co., 302 Michigan (of Phila.,
Dawson Bros., 199 N Halsted Pa.)
Englewood Mantel & Tile Co., 921 W. 59th
Haves & Dodd, 24 Adams
Hoops, Wm. H. & Co., 10 Monroe
Interior Mantel & Tile Co., 296 Wabash av
Illinois Mosaic Tile Co., 36th & Ashland av
JACKSON, WM. H. COMPANY, 163
Michigan av. (See adv. index, end of book)
Keating, M. & Sons Co., 224 Wash'n
Lorenzen, Chas. F. & Co., 276 N Ashland
av
Mott, J. L. Iron Works, Merchant Loan &
Trust bldg
Petersen, Geo. L. Co., 281 N Sangamon
Pickens, Edw. Co., 479 Wabash av
Rees, Geo. H. Co., 88 Lake
Servoss Furnace Co., 135 Lake
Weary & Beck, First National Bank bldg
DECATUR—Morehouse & Wells Co.
EVANSTON—Conner, J. C. Co.
GALESBURG—Murphy Bros. & Anderson
LINCOLN—Bouillon, W. E.
MOLINE—Moline Furniture Works (Inc.)
PEORIA—Johnson, Chas. Hardware Co.
Meyer, F. & Bro. Co.
Peoria Stone & Marble Works
QUINCY—Heltland Grate & Mantel Co.
SPRINGFIELD—Power, Chas. A.
Vredenburgh, Peter, Lumber Co.

INDIANA.

ANDERSON—Jones, A. J.
Nichol Hardware Co.
CARLISLE—Risinger & Ellis
COLUMBUS—Schwartzkopf, J. G. & Son
EVANSVILLE—Lensing, H. A., 422 Sycamore
Schmitt, August & Sons Co., 605 Main
Scholz, F. J. & Son, 11 L 3d
Sonntag Mantel & Tile Co.
Thiele, I. A. Co., 108 U 3d
FORT WAYNE—Carter, W. & Sons
Hattersley, A. & Sons, 48 E Main
Lund, H. M., 172 W Creighton av
FRANKLIN—Smith & Tilson
HARTFORD CITY—Lieber & Campbell
HUNTINGTON—Bartlett & Frazier
Peden, H. V. & Sons.
INDIANAPOLIS—Balke & Krauss Co., Mar-
ket & Missouri
Builders' Supply Corporation, 342 E Wash
Hopkins, Lynn B., 2127 Broadway
Lion Mantel & Grate House, 214 N Del.
KOKOMO—Globe Stove & Range Co.
LAFAYETTE—Howe & Shipley
LOGANSPOUT—Crawford, Isaac N.
Henderson, J. W. & Sons
Ullery, S. W. & Son
MARION—Marion Hardware Co.
Swanger & McClain
MUNCIE—Clevenger, Earle L.
Shirk, W. W.
Young & Kessler.
RICHMOND—Johnson, Peter Co.
Wagner, William & Son
SULLIVAN—Long & Warren
TERRE HAUTE—Austin Hardware Co.
Duenwig Hdw. Co., 657 Wabash av
Manlon, John, 905 Wabash av
Smith, C. C. Sons Co., 303 Wabash av
Townley Hardware & Stove Co., 606 Wab-
ash av
Watson's, D. W. Sons Co., 634 Wabash av

IOWA.

BURLINGTON—Bernard Bros. & Mercer Co.
Drake Hardware Co.
Wyman & Rand
CEDAR RAPIDS—Kublas, F. & Co.
COUNCIL BLUFFS—De Vol, P. C. Hardware
Peterson-Schoening Co.
Stephen Bros.
DAVENPORT—Gordon-Van Tine Co.
Hobbrook Mantel & Tile Co.
Marble & Granite Co.
Schricker, W. S.
Roberts, U. N. Co.
DES MOINES—Des Moines Marble & Mantel Co.
DUBUQUE—Gill, W. V.
KEOKUK—Weber, A. & Co.
OTTUMWA—Cooper, W. H. & Son
McCarroll, Chas. T.

KANSAS.

ATCHISON—Uhrich, O. W. Planing Mill Co.
EMPORIA—Haynes Hardware Co.
Peters Hardware Co.
IOLA—Shannon, T. B.
TOPEKA—Culver, W. E.
Forbes, D. H.
Fernald, W. H.
WICHITA—Stocker, O. B.

KENTUCKY.

ASHLAND—Henderson, Thos. & Son.
COVINGTON—Cambridge Tile Mfg. Co.
Faulwetter, Fred.
Tattershall, A. W.
HENDERSON—Blackwell, P. A. & Co.
LANCASTER—Haselden, J. R.
LEXINGTON—Drake, S. E. & Co.
Smith, Watkus & Co.
Van Deren Hdw. Co.
LOUISVILLE—Fischer-Leaf Co., 1438 High
Hegan Mfg. Co.
Hughes, W. J. & Sons Co., 14th & Maple
Kentucky Stove Co., 1401 Delaware
Voss Mantel Co., 16th & Arbogust
OWENSBORO—Frederick, John C.
Guenther, W. A. & Sons.
PADUCAH—Hart, Geo. O. & Sons Co.

LOUISIANA.

BATON ROUGE—Becker Furniture Co.
Doherty Hardware Co.
MONROE—Monroe Hardware Co.
NEW ORLEANS—Leahy, Geo. M., 512 Camp
SHREVEPORT—Hardman, O. C. & Co.

MAINE.

AUGUSTA—Cogan, J. H. & Co.
BANGOR—Dickey, W. P. & Co.
Haynes & Chalmers Co.
BRUNSWICK—Eaton Hardware Co.
Ridley, Geo. B.
LEWISTON—Hall & Knight Hdw. Co.
PORTLAND—Allen, W. A., 125 Somerset
Edwards & Walker Co.
Emery, Waterhouse Co.
Kling & Dexter Co.

MARYLAND.

BALTIMORE—Broadbent, F. A. Mantel Co.
(Mfrs.), c Canton av. & East Falls
Davidson, F. H. & Co., 509 W Franklin
Dunn, Jos. B., 853 N Howard
Fisbach, David & Co., 604 N. Calvert
Gault, Wm. A. & Son, 9 E Lex
Melsahn, C. F. & Co., 19 Clay
National Mantel & Tile Co. (Mfrs.), 9 E
Lexington
Sisson, Hugh & Sons, 23 & Belt Line R. R.
Steiner Mantel Co., Fairmount av., c 8th
CUMBERLAND—Cumberland Sash & Door Co.
Habig & Stegmaier
OAKLAND—Davis, J. M. & Son
SALISBURY—Dorman & Smyth Hardware Co.
Gunby, L. W. Co.

MASSACHUSETTS.

BOSTON—Balley, J. W. & Sons Co., 14 Hay-
market Sq.
Boston Tile & Mantel Co., 120 Boylston
Carter, Geo. H., 43 Beverly
Crawley, Geo. E. & Son, 3 Somerset
Franz, Jno. (Est.), 18 Thayer
Haymarket Square Tile & Fire Place Co.,
26 Washington, N
Kelley, L. J., 61 Bristol
Mott, J. L. Iron Works, 41 Pearl
Murdoch-Shaw Co., 125 Federal
O'Connor, T. W., 125 Haverhill
Palge, D. F. & Co., 47 Warcham
Stearns & Waterman, 1 Washington
Whitney, Edgar H., 175 Devonshire

HOLYOKE—Oakes, Roland T. Co., 363 High
 LOWELL—Thompson Hdw. Co., 254 Merrimack
 LYNN—Brookway Smith Corp.
 NEW BEDFORD—Washburn, Lettice R. &
 Co., 266 N. Water
 SPRINGFIELD—Hall, Chas., 395 Main
 McGregor & Casman
 Old Corner Decorating Co., 64 W Bridge
 TAUNTON—Pierce Hardware Co.
 Saunders, C. V. & Co.
 Washburn, Frank R.
 WORCESTER—Kendall, O. S. & Son, 564 Main

MICHIGAN.

ADRIAN—Thiem, Ferdinand S. D.
 Wilcox Hdw. Co.
 ANN ARBOR—Muehlh & Schmid
 BATTLE CREEK—Bock, Chas. A. & Son
 BAY CITY—Burbidge, Benj. & Co.
 DETROIT—Barton-Nettling Co., 250 Woodward
 Detroit Mantel & Tile Co., 114 B'way
 Fox Bros. & Co., 1450 Hastings
 Mehling, Geo. R., 106 Heury
 Paschke, Chas., 140 Grand River av
 Venetian Marble Mosaic Co., 98 Brush
 FLINT—Aldoe, J. Frank
 Hubbard, Geo. W. & Sons
 Sterner, Edwin Co.
 GRAND RAPIDS—Grand Rapids Clock & Man-
 tel Co.
 Rathbone & Paulgot Co.
 Weatherly, C. S.
 JACKSON—Smith-Winchester Co.
 KALAMAZOO—Edwards & Chamberlin Hard-
 ware Co.
 LANSING—Larned, H. H.
 MARSHALL—Marshall Furnace Co.
 PORT HURON—Truesdell Marble & Granite Co.
 SAGINAW—Morley Bros.
 Saginaw Hardware Co.

MINNESOTA.

DULUTH—Dixon & Lowry
 MINNEAPOLIS—Drake Marble & Tile Co., 607
 Launders-Morrison-Christenson Co., 2d av. S
 Northwestern Marble & Tile Co., 419 S 6th
 ST. PAUL—Drake Marble & Tile Co., 60 E 3d
 French, William A. & Co., 42 E 6th
 WINONA—Cone, R. D. Co.

MISSISSIPPI.

ABERDEEN—Henderson Hdw. Co.
 AMORY—Amory Hdw. Co.
 COLUMBUS—Banks Hdw. Co.
 Newby Bros.
 DURANT—Durant Commercial Co.
 GREENVILLE—Greenville Hardware Co.
 Wetherbee Hardware Co.
 GREENWOOD—Henderson & Balrd
 Mann Hardware Co.
 JACKSON—Jackson Hardware Co.
 LAUREL—Gardner, Frank Hdw. & Supply Co.
 Laurel Hardware Co.
 MERIDIAN—Casteel & Son
 Meyer-Neville Hardware Co.
 NATCHEZ—Baker & McDowell Hdw. Co.
 Felts Bros.
 Schwartz & Stewart
 VICKSBURG—Wright Bros. Hardware Co.
 YAZOO City—Crane-Hinman Hdw. Co.

MISSOURI.

CARTHAGE—Drake Hardware Co.
 CHILLICOTHE—Minteer & Williams
 CLINTON—Blakemore, James N.
 Stone, W. H.
 COLUMBIA—Newman, C. C. & Co.
 DEXTER—Miller, Ulen & Carter
 KANSAS CITY—Calhoun Mantel & Tile Co.,
 815 Walnut
 Kansas City Mantel Co., 1022 Walnut
 Wakefield Mantel & Tile Co., 1105 McGee
 MARSHALL—Naylor, B. F. Furniture & Plumb-
 ing Co.
 MEXICO—Ferris & Cauthorn
 Robertson, George W.
 NEVADA—Moore, Q. T.
 Robinson, J. B. & Son
 ST. JOSEPH—American Sash & Door Co.
 Burgess-Frazier Iron & Hdw. Co.
 Curtin & Clark Hdw. Co.
 ST. LOUIS—Beattie Mfg. Co., 2206 Pine
 Central Mantel Co., 1228 Olive
 Fichtel, Bernard, 1925 Washington
 Hornet Mantel Co., 1114 Market
 Irwin Mantel Co., 1310 Pine
 May, Wm. Tile & Mantel Co., 1927 Wash-
 ington
 Nelson, N. O. Mfg. Co., Chestnut c 10th
 Seldel, Emil F., 1915 Pine
 SEDALIA—Hegenfritz Hdw. Co.
 Sedalia Hdw. Co.
 Smith, D. H. Hardware Co.
 SPRINGFIELD—Fahrenhorst, F. W. G.
 Raymond Heating Co.

MONTANA.

ANACONDA—Stagg, J. P.
 BUTTE—Montana Hardware Co.
 HELENA—Hermann & Co.
 Holter, A. M. Hardware Co.

NEBRASKA.

LINCOLN—Clyce, F. P.
 Lahr, Frank E.
 NEBRASKA CITY—Bischof, William
 Overton, E. L.
 OMAHA—Cady, H. F. Lumber Co., 6th & Doug-
 Dishrow, M. A. & Co., 1201 Nicholas
 Hamling, F. M., 309 S 17th
 Rogers, Milton & Sons, 1323 Farnam

NEW HAMPSHIRE.

BERLIN—Parent, A. E.
 CONCORD—Thompson & Hogue

NEW JERSEY.

ATLANTIC CITY—Currie Co.
 BRIDGETON—Bacon, Daniel & Son
 JERSEY CITY—Dickson, J. & Bro., 385 Grand
 Gahagan, William A., 1219 Garden
 Nicoll & Cotter, 58 Oakland av
 NEWARK—Beckingham, Chas. H., 23 Belleville
 Davenport, Jas. H., 531 Market
 Harrison, E. H. & Bro., 478 Broad
 Hedden, V. J. & Sons Co., 431 Ogden
 Newark Mantel & Furniture Co., 59 Poinier
 Russell, W. P. Co., 40 Lawrence
 Staudard Mantel Co., 221 Sussex av
 PASSAIC—Abbott's, A. Sons
 Doremus, Jno. H.
 PATERSON—Baird, John Co.
 Mills, H. W. & Co.
 RED BANK—Allen, J. Trafford
 TRENTON—Katzenbach, F. S. & Co.

NEW YORK.

ALBANY—Butler, C. R., 63 Hudson av
 Schilling Co., 43 Eagle
 AMSTERDAM—Hennessy, W. E.
 BINGHAMTON—Babcock, Hinds & Underwood
 Bartlett & Co., 37 Collier
 Lynch's, John R. Sons
 BROOKLYN—(See New York City, Borough of
 Brooklyn)
 BUFFALO—Buffalo Mantel Mfg. Co., 284
 Mills
 Crawford, John & Son, 1420 Delaware av
 Day, Alvin W., 877 Main
 Elssesser, John, 1183 Niagara
 Steul & Thuman, 278 Johnson
 Stuhlmueller Mantel Works, 413 E Delaware av
 Walbridge & Co., 392 Main
 Wolsley, John A., 895 Main
 DUNKIRK—Bloss, Clark Co.
 ELMIRA—Barker, Rose & Clinton Co.
 Booth, Irving D.
 FALCONER—Jamestown Mantel Co.
 GENEVA—Dorchester & Rose
 GLEN'S FALLS—Delong & Sons
 Whipple & Robinson
 ITHACA—Rumsey, C. J. & Co.
 Treman, Kling & Co.
 JAMESTOWN—Clark Hardware Co.
 Munson & Johnson
 Sprague, W. H.
 KINGSTON—Stock & Cordts
 LITTLE FALLS—Skinner & Osyten
 MIDDLETOWN—Brink & Clark
 NEWBURGH—Lawson Hardware Co.
 Shannon & Co.
 Van Cleft, Jos. & Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Burns Mantel & Tile Co., 903
 Mellor, J. H. & Co., 302 Fulton
 Miles, Henry & Sons, 2073 Fulton
 South Brooklyn Mantel Co., 46th

Boroughs of Manhattan & Bronx.

NEW YORK CITY—Alexander & Reld Co., 359
 W 26th
 Boote, Alfred Co., 120 W 30th
 Chester Mantel & Tile Co., 38 E 21st
 Cumberland, Chas. N., 440 Greenwich
 CURRIER, E. BRADLEY, CO., 119 W.
 23d & 114 W. 24th. (See adv. index, end
 of book)
 Federal Tile Co., 131 W. 24th
 Ensign, O. E., 1123 B'way
 Graf, Frank H., 322-324 7th av.
 Grant, Wm. D., 327 W. 42d.
 Hayden Co., 523 5th av
 Howden Tile Co., 43 W. 27th

JACKSON, EDWIN A. & BRO. (The
 Jackson Ventilating Grate, Mantels, Tiles,
 Fireplaces, etc.), 50 Beekman
 JACKSON, WM. H. COMPANY, 29
 E. 17th (Union sq), & 163 Michigan av,
 Chicago, Ill. (See adv. index, end of
 book)

Jackson's Mantel & Grate Works, 246 Front
 Jamestown Mantel Co., 271 W. 125th
 Kemp, Jas. E., 155 W 24th
 Kuhner, Geo. A., 1901 Park av
 Lage, Bernard, 484 Greenwich, Factory:
 Menlo Park, N. J.

McCrea, Harry, 1682 3rd av
 Morrison, Geo. S., 464 Amsterdam
 Mott, J. L. Iron Works, 118 5th av
 New England Mantel & Tile Co., 270 E
 Nichols, A. S., 1901 Park av
 Petri, Herman, 101 E 17th
 Rossman, Robert, 155 W 24th
 Savitzky & Golomb Co., 65 Park av
 Schultz, Herman, 315 E 22nd
 Toscani, Jno. L. & Co., 207 E 35th
 Traitel Bros. & Co., 44 E 19th
 Walsh, John, 387 3d av
 Wright, Henry, 2559 3d av

(End of New York City)

NIAGARA FALLS—Elderfield-Hartshorn Hdw.
 Watson, James & Son Co.
 OSWEGO—Oswego Hardware Co.
 PORT JERVIS—Bennett, John E.
 Gordon & Malven Co.
 Poughkeepsie—Grohe, F. H.
 ROCHESTER—Barry, James C. Co., 83 North
 Nell Bros. & Kern, 238 State
 Noeth, Geo. E. & Co., 46 Clinton av
 Weston, John P., Granite bldg
 ROME—Wardell Hardware Co.
 SCHENECTADY—Burtis, A. R. & Son
 Witbeck, Clark
 SYRACUSE—Stearns & Son, 328 S. Warren
 Syracuse Mantel, Tile & Marble Co., 333
 E Genesee
 TROY—Dickson, H. S., 267 River
 Emerson, George B., 233 River
 Grant, Chas. M., Cemetery & 7th avs
 UTICA—Griffiths & Pierce, 72 Charlotte
 Hughes, John F., 33 Charlotte
 Wicks, Hughes & Co., 224 Genesee
 YONKERS—Brookhurst, Wm. A.
 Wiggins, L. H.

NORTH CAROLINA.

ASHEVILLE—Scott, George F. & Co.
 GREENSBORO—McClamrock Mantel Co.
 Odell Hardware Co.
 RALEIGH—Briggs, Thomas H. & Son

OHIO.

AKRON—Ewing, L. D., 119 Kirkwood
 Flower, J. T., 118 S High
 ALLIANCE—De Venne Co.
 Love, Casselman & Co.
 CADIZ—Long, E. M. & Sons
 CANTON—Bucklus, W. H.
 Fife Bros. Co.
 Yost, L. P. D.
 CHILLICOTHE—McNellis, Wm. A.
 CINCINNATI—Bollinger, C. H. & Co., 518
 Buchanan
 Cassini Mosaic & Tile Co., 1027 Broadway
 Kramig, R. E. & Co. (Glazed & Encaustic
 Tiles), 234 E 6th, Cincinnati, Ohio
 Mitchell, Robert Furniture Co., 620 Race
 Moormann & Orten, 611 Main
 Schroeder, Martin, 523 Main
 Thunwald, C. F. & Co., 1222 Harrison av
 Wiggers Furniture Co., 1423 Plum
 CLEVELAND—Auld & Couger, 942 Prospect av,
 S. E.
 Cleveland Mantel & Tile Co., 1426 E 30th
 Collings, Clarence H., 1527 Prospect av,
 S. E.
 Miller Grate Co., 2108 Superior av, N. W.
 Pfeil, Chas. J. Co., 1905 W 3d
 Shaw, L. F. Mantel & Tile Co., 1049 Super-
 lor av, N. W.
 Teachout, A. & Co., 321 Prospect av, N. W.
 Vincent-Barstow Co., 725 Euclid av
 Wadsworth, Chester J., 5806 Euclid av
 Watson & Guest, 5911 Euclid av
 COLUMBUS—Capital City Mantel Co., 70 E
 Lewis, J. R., 1009 W. Broad
 DAYTON—Davis Mantel & Grate Co., 208 N
 Foster, Geo. T. Co., 36 S Jefferson
 King Bros. & Co., 128 N Main
 FINDLAY—Gassman Bros.
 Smith, A. M.
 FREMONT—Reynolds, A. A.
 Swint & Reineck
 HAMILTON—Holbrook Hardware Co.
 Spoerl, John S.
 HILLSBORO—Enterprise Planing Mill Co.

LANCASTER—Martens Hardware Co.
 LIMA—Harman, Frank E.
 LORAIN—Fey, F. J.
 Wickens Co.
 MANSFIELD—Bare Bros.—Martin Hardware Co.
 Preston, Burton
 MARIETTA—Wagner, H. A.
 NEWARK—Jones, J. C.
 Jones, Daniel L. & Co.
 SANDUSKY—Donahue Hardware Co.
 SPRINGFIELD—Diehl, W. W., Hardware Co.
 Tuttle, W. F. Co.
 STEUBENVILLE—Anderson & Son.
 Sharp, W. L. & Son
 TOLEDO—Lindow, Leibius & Gerchow Co., 220 Superior
 Practical Mantel Co., 918 Monroe
 WARREN—Warren Hardware Co.
 WASHINGTON—Ford Hardware Co.
 WELLSVILLE—Wellsville Hardware Co.
 XENIA—Babb, C. L.
 Conwell, J. C.
 YOUNGSTOWN—Williams, Homer S., Co.
 ZANESVILLE—Clossman Hardware Co.
 Perry Hardware Co.
 Shaw, G. W. Mantel & Tile Co.

OREGON.

PORTLAND—Barrett, Mfgs. Agency
 Coleman Hardware Co., 111 3d
 Krochman & Hartman, 183 1st
 Walsh, M. J. Co., 311 Stark

PENNSYLVANIA.

ALLENTOWN—Bowman & Fulton
 Hersh Hardware Co.
 Ochs, M. T. J., 450 Wire
 Well, F. W. Co., 1031 Linden
 BEAVER FALLS—Knott & Harker Co.
 BETHLEHEM—Krause, J. S.
 Lehigh Valley Cornice Works
 BRADFORD—Fox, James B.
 Haggerty, M. A.
 BUTLER—Campbell, J. G. & W.
 O'Brien, W. H. & Son
 Rockenstein, M. C.
 CHAMBERSBURG—Eyster & Sulder
 CONNELLSVILLE—Frisbee Hardware Co.
 Munson Bros.
 CORRY—Barlow Hardware Co.
 EASTON—Garnier, A. B. & Son
 Miller, T. T. Hardware Co.
 Osterstock, Joseph S.
 ERIE—Constable Bros. Co.
 Griffin Mfg. Co.
 Hirt, F. W., 6 N Park
 Metric Metal Co., 10th & Payne
 HARRISBURG—Hoopes, Harry A.
 Strayer, Oliver F.
 JOHNSTOWN—Swank Hardware Co.
 LANCASTER—Arnold, John L.
 Flinn & Breneman.
 Herr & Co.
 Steinman Hardware Co.
 McKEESPORT—Hartman Hardware Co.
 MEADVILLE—Rouche, Frank
 NEW CASTLE—Dufford, W. F. & Co.
 Frew Furniture Co.
 Horton & Whitton Hardware Co.
 Smith, Hutton & Kirk Co.
 Welch Hardware Co.
 NORRISTOWN—Boyer, J. Frank
 OIL CITY—Chambers Hdw. Co.
 PHILADELPHIA—Beifi Bros. & Co., 20 S 19th
 Buchanan, Jas. M., 2047 Market
 Cotter, Michael F., 1316 Ridge av
 Daly, James C. & Co., 1626 Chestnut
 Davis Marble Co. (also Encaustic Tiling
 for Walls & Floors), 214 S. 24th
FRENCH, S. H. & Co., 4th & Cal-
lowhill. (See adv. index, end of book)
 Greenwood, Jos. B., 2202 Amber
 Hull-Kline Co., 1927 Market
 Italian Marble Mosaic Co., 431 Spruce
 Kline, Chas. B., 28 S 16th
 Miller, Jos. S. & Co., 1208 Ridge av
 Mott, J. J., Iron Works, Commonwealth
 Trust Bldg.
 Ostendorf, W. A., 2923 Broad
 Sharpless & Watts Co., 1519 Walnut
 Sloan, Wesley, 1835 Market
 Suddards, Chas. A., 114 S 16th
 Watts, W. H. & Co., 37 S. 16th
 Wilson Tile Co., Perry bldg
 PITTSBURG—Aiken & Co., Century Bldg.
 Detrick, E. J. Co., 8th & Penn.
 East End Mantel & Tile Co., 5914 Baum
 McIlwain, S. D. & Co., 5702 Penn av
 Roenigk, E. O., 211 7th
 Stengel Bros. Co., 104 Market
 Waddle, Newton A., 764 W Carson
 POTTSTOWN—Bailey, M. W.
 Fegely, J. & Son

POTTSVILLE—Bright & Co.
 Esterly, D. L. Sons
 READING—Bard Hdw. Co.
 Bright & Co.
 Hoff & Bro.
 Obold, Jno. H. & Co.
 Penn Tile & Mantel Co.
 SCRANTON—Barriscale, Wm. J.
 Cowles, W. C.
 Foote & Becker Co.
 Leonard, Thos. F.
 Oweus Bros.
 SHARON—Wallis & Carley Co.
 UNIONTOWN—Miller, Walter F.
 WILKES-BARRE—Carpenter, B. G. & Co.
 Llem, J. W. & Co.
 Morgan's, Chas. Sons
 White Hardware Co.
 WILKINSBURG—Morris, Graff & Co.
 WILLIAMSPORT—Williamsport Hardware &
 YORK—Kraber, E. I. & Son Stove Co.
 Stokeley & McNellis

RHODE ISLAND.

NEWPORT—Horton, J. W. & Co.
 Peckham Co.
 PROVIDENCE—Crooker Mantel & Tile Co.,
 230 Weybosset
 Cull & Williams, 182 Wash'n
 Grimwood, H. A. & Co., 1161 Westminster

SOUTH CAROLINA.

ANDERSON—Barton, J. E.
 Brissley, W. L.
 CHARLESTON—Masters, R. M., 127 King
 Morris, R. J., 130 King
 Phoenix Furniture Co., 187 King
 Riley, A. J., 143 King
 Shepherd Supply Co., 232 Meeting
 COLUMBIA—Stewart, W. S.
 LAURENS—Wilkes, S. M. & E. H. & Co.
 SPARTANBURG—Ezell, S. B.
 Montgomery & Crawford
 Spartan Hdw. Co.

SOUTH DAKOTA.

ABERDEEN—Aberdeen Hardware Co.
 Jackson Hardware Co.
 Witte Hdw. Co.
 SIOUX FALLS—Hackman, E. W. Hdw. Co.
 Larson Hdw. Co.

TENNESSEE.

CHATTANOOGA—Cahill Iron Works
 Fritts, Tom Hdw. Co.
 Green, W. T.
 Magill Hardware Co.
 Snow, T. A. Co.
 JACKSON—Anderson, G. C. & Co.
 KNOXVILLE—Atkin, C. B. (Wholesale Mfr.)
 King Mantel Co. (Wholesale Mfr.)
 Loranna Grate & Mantel Co.
 Standard Mantel & Specialty Co.
 White Mantel & Tile Co. ("Royal")
 MEMPHIS—Niemeyer, A. E. Mantel Co.
 Northcross, W. J. Mantel & Grate Co.
 Ozanne, Frank
 NASHVILLE—Allen Mfg. Co.
 Edgefield & Nashville Mfg. Co., 1st & Main
 Fall, J. H. & Co.
 Jones & Hopkins Mfg. Co.
 Keith, Simmons & Co.
 Lipscomb, H. G. & Co.
 Moore, G. & Son, 523 Spruce
 Phillips & Co., 213 N College
 Phillips & Buttorff Mfg. Co., 219 N College
 TRENTON—Smith, C. F. Co.

TEXAS.

AUSTIN—Nalle & Co.
 Simpson, J. S. Hardware Co.
 Webb, Taylor & Perry
 BEAUMONT—Texas Builders' Supply Co.
 Wilson Hdw. Co.
 BONHAM—Smith-Moore-Williams Co.
 Thompson-Abernethy Co.
 CLARKSVILLE—Hocker Bros.
 DALLAS—Fakes Furniture & Carpet Co.
 Huey & Philip Hardware Co.
 DENISON—Hall-Leeper Hardware Co.
 Lingo-Leeper Lumber Co.
 EL PASO—Emerson & Berrien
 Krakauer, Zork & Moye
 FORT WORTH—Eilison Furniture & Carpet
 Nash Hardware Co.
 GAINESVILLE—Stevens, Kennerly & Spragin
 Williams, B. M.
 GALVESTON—Ott, Chas. S.
 Schadt, Wm., 2801 Mechanic
 Smith, J. F. & Bro., 2315 Strand
 GREENVILLE—Armstead & Ende
 Collins, G. H.

HOUSTON—Bering-Cortes Hdw. Co.
 Bering, C. L. & Theo.
 Bering Mfg. Co.
 Greenberg, B. H. & Son
 Waddell, H., 1102 Prairie av
 JEFFERSON—Meyer, Eugene
 Torrains Mfg. Co.
 LAREDO—Deutz, A. & Bro.
 Netzer, Jos.
 McKINNEY—Crouch, Saigling & Co.
 MARSHALL—Logan & Whaley
 SAN ANTONIO—Basse, Wm. Hdw. Co.
 Heusinger Hdw. Co.
 Schultze Stove & Hardware Co.
 SHERMAN—Hardwicke-Etter Hdw. Co.
 Roberts, Sanford & Taylor Co.
 Walsh Hardware Co.
 TERRELL—Muckleroy & Dew
 TYLER—Adams, J. R. Hdw. Co.
 WACO—McLendon Hardware Co.
 Strauss, E.
 WEATHERFORD—Bell, R. E. Hdw. Co.
 Lowe-Carter Hdw. Co.

UTAH.

OGDEN—Boyle Furniture Co.
 Bucher, Frank O.
 SALT LAKE CITY—Dinwoody, H. Furniture
 Co., 37 W 1st
 Harris, Hyman, 234 S State
 Morris, Elias & Sons Co., 21 W South Tem-
 Salt Lake Hardware Co. ple
 Strevell-Paterson Hardware Co.

VERMONT.

BURLINGTON—Goodell, J. W.
 FAIR HAVEN—Fair Haven Marble & Marble-
 MONTEPELIER—Peck Bros. ized Slate Co.
 RUTLAND—Landon, W. C. & Co.
 Rutland Marble Mfg. Co.

VIRGINIA.

DANVILLE—Hodnett-Vass-Watson Co.
 HAMPTON—Booker, H. R. & Co.
 LYNCHBURG—Adams, Monroe Mfg. Co.
 Doherty & Casey
 NEWPORT NEWS—Rosenbaum Hdw. Co.
 NORFOLK—Addenbrook's, J. U. Sons
 Barnard, W. H. & Co.
 Clark, Frank T. Co.
 Nash, C. A. & Son
 Thomason, W. S. Co.
 White Hdw. Co.
 PETERSBURG—Leonard, Chas.
 Stratton & Bragg
 PORTSMOUTH—Hawks-Maupin Co.
 RICHMOND—Baldwin & Brown, 1557 E Main
 McGraw, Jas., 1440 E Main
 Mills, Morgan R., Bank of Richmond Bldg
 Richmond Hardware Co., 101 So. 14th
 Southern Plumbing & Mantel Co., 619 E.
 Virginia-Carolina Hardware Co., 1322 E
 ROANOKE—Marsteller, J. H. Main
 Marsteller, J. H.
 Nelson Hardware Co.
 SUFFOLK—Folk, E. L. & Co.

WASHINGTON.

BELLINGHAM—Northwest Hardware Co.
 SEATTLE—Miles, Z. C. & Piper Co., 1st av & c
 Spring
 SPOKANE—Holley, Mason Hardware Co.
 Jensen-King-Byrd Co.
 TACOMA—Bowie & Love
 Hunt & Mottet Co.
 Washington Mfg. Co.

WEST VIRGINIA.

CLARKSBURG—Williams & Davison Co.
 HUNTINGTON—Emmons-Hawkins Hdw. Co.
 PARKERSBURG—Chancellor Hdw. Co.
 Smith, W. H. Hardware Co.
 WHEELING—Burley, J. F. & Co., 1606 Market
 Caldwell, B. F. & Co., 1508 Market
 Chapman, W. H. & Sons, 1218 Main
 Ott, Heiskel Hardware Co.
 Wilson, W. A. & Sons

WISCONSIN.

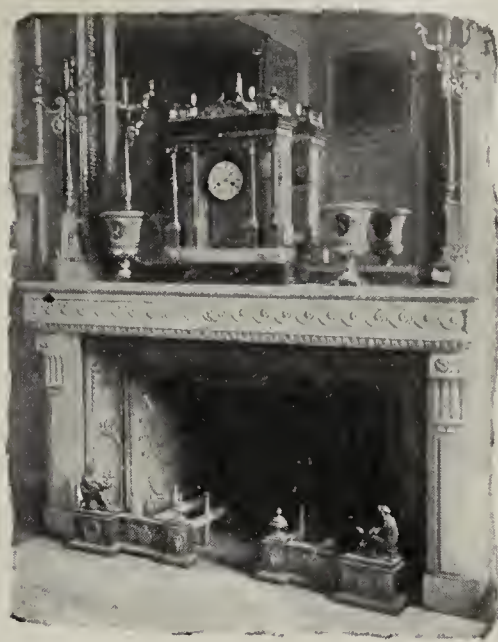
APPLETON—Galpin's, Alfred Sons
 Schlafer Hardware Co.
 Tesch, Wm.
 LA CROSSE—Dittman, Fredk.
 Kroner, Adam
 Kroner, Fredk. Hardware Co.
 MADISON—Summer & Morris
 MILWAUKEE—Durner, U. F., 28 Jnnean av
 McCusker, J. D. & Co., 612 Grand av
 Neldner, H. & Co., 49 Onelda
 Ormsby Mantel & Grate Co., 455 Milwaukee
 Wisconsin Mantel & Tile Co., 420 Milwaukee
 Wollaefer Mfg. Co., 636 N Water
 RACINE—Hoernei Hardware Co.
 Kersten, Henry A.



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Commercial Register

***Mantels (Artificial Marble)**

MYCENIAN MARBLE CO. (Decorative)
Marble Work of All Kinds; Columns, Wainscoating, Mantels, etc., 524 W 34th, New York. (See adv. index, end of book)

Mantels (Brick)

Carnegie Brick & Pottery Co. (Or Tile), San Francisco, Cal.
Fallston Fire Clay Co., Fallston, Pa.
FISKE & COMPANY (Inc.), 25 Arch,
Boston, Mass., & Flat Iron bldg, New York.
(See adv. index, end of book)
Harris Brick Co., Zanesville, O.
Los Angeles Pressed Brick Co. (Or Tile), Los Angeles, Cal.
Orchard Knob Clay Works Co., Ironton, O.
Phila. & Boston Face Brick Co., Boston, Mass.
Steiger Terra Cotta & Pottery Wks. (or Tile), San Francisco, Cal.
Washington Brick & Lime Mfg. Co., Spokane, Wash.

Mantels (Faience)

Grueby Faience Co., E 1st & K, Boston, Mass.
Hartford Faience Co., Hartford, Conn.
Zanesville Tile Co., Zanesville, O.

Mantels (Iron, Electro Bronze Plated)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.

Mantels (Marble)

(See Marble Interior Work)

Mantels (Marbleized Iron)

Bridgeford & Co., Louisville, Ky.
Fischer-Leaf Co., 1438 High, Louisville, Ky.
Kentucky Stove Co., Louisville, Ky.

Mantels (Marbleized Slate)

Allen's, S. Sons, Fair Haven, Vt.
Bangor Crescent Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Criterion Slate Co., Hydeville, Vt.
Excelsior Slate Co., Pen Argyle, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hinchey, Patrick, Hydeville, Vt.

Mantels (Mosaic)

Cargill Co. (Wholesale Mfrs.), Grand Rapids, Mich.
CURRIER, E. BRADLEY CO., 119 W
23d & 114 W 24th, New York. (See adv. index, end of book)
Giannini & Hilgart, 211 E Madison, Chicago, Ill.
Hawes & Dodd, 24 Adams, Chicago, Ill.
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.
Pellarin & Co., 82 Greenwich av, New York
Sharpless & Watts Co., 1519 Walnut, Phila., Pa.
Stolzenberg Co., 51 & 53 Barclay, New York
Tiffany Studios, 347 Madison av, New York
Traitel Bros. & Co., 44 E 19th, New York
Zanesville Tile Co., 147 W 23d, New York, & Zanesville, O.

Mantels (Onyx)

Fisher, Robert C. Co., E 139th & Locust av, New York
Klaber, S. & Co., 126 W 34th, New York
McGratty & Sons, 313 Butler, Brooklyn, N.Y.
Theis, Peter Sons, c 1st av & 37th, New York

Mantels (Slate)

(See also Slate Mill Stock; also Mantel, Grate & Tile Dealers; also Mantels, Marbleized Slate)

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Auld & Conger Co., Cleveland, O.
Bangor Crescent Slate Co., Bangor, Pa.
Chicago Slate & Mantel Co., 232 S Clinton, Chicago, Ill.
Columbia Bangor Slate Co., Bangor, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Hahn, Granville, Walnutport, Pa.
Hall-Kline Co., 1927 Market, Phila., Pa.
Hinchey, Patrick, Hydeville, Vt.

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York, and 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

Mack, Jno., Middle Granville, N. J.
Monson Maine State Co., 113 Devonshire, Boston, Mass.
North Bangor Slate Co., Bangor, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Schilling & Co, 43 Eagle, Albany, N. Y.
Williams & Schmidt, Granville, N. Y.

Mantels (Terra Cotta)

(See Terra Cotta, Architectural)

Mantels (Wood)

(See also Mantels, Grates & Tiles)

Alcott-Ross Co., 2917 N Broad, Phila., Pa.
Allen & Curry (Wholesale Mfrs.), Shreveport, La.
American Sash & Door Co. (Roach & Kienzie Factory) (Wholesale Mfrs.), Kansas City, Mo.
Art Furniture & Grill Co., Seattle, Wash.
Atkin, C. B., Co. (Wholesale Mfrs.), Knoxville, Tenn.
Bennett, E. D., San Francisco, Cal.
Bering Mfg. Co. (Wholesale Mfrs.), Houston, Tex.
Bossert, Louis & Son, Grand st & Newtown Creek, Brooklyn, N. Y.
Broadbent, Felipe A., Mantel Co., Baltimore, Md.
Burritt, A. W., Co., Bridgeport, Conn.
Caroline Mfg. Co., Charlotte, N. C.
Capitol Lumber Co., Indianapolis, Ind.
Cargill So. (Wholesale Mfrs.), Grand Rapids, Mich.
Columbia Mantel Co. (Wholesale Mfrs.), Louisville, Ky.
Conway Veneered Door & Mantel Co., 20th & St. Paul av, Milwaukee, Wis.
Cumberland Sash & Door Co. (Wholesale Mfrs.), Cumberland, Md.

CURRIER, E. BRADLEY CO., 119 W
23d, New York. (See adv. index, end of book)

Curtis Bros. & Co. (Wholesale Mfrs.), Clinton, Ia., & Sioux City, Ia.
Curtis & Bartlett Co. (Wholesale Mfrs.), Lincoln, Neb.
Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
Curtiss, A. Judson, Kalamazoo, Mich.
Dame Mantel Co. (Wholesale Mfrs.), Harri-man, Tenn.
Davis, E. J., Mfg. Co., 9 Jackson boul., Chicago, Ill.
Dawson Bros. (Wholesale Mfrs.), 197 N Halstead, Chicago, Ill.
Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons, Ia.
Dixie Mantel & Mfg. Co. (Wholesale Mfrs.), Maryville, Tenn.
Ehman, C. & Co. (Inc.) (Wholesale Mfrs.), Decatur, Ill.
Enterprise Planing Mill Co., Hillsboro, O.
Enterprise Planing Mill Co., Hillsboro, O.
Fletcher Mfg. Co. (Wholesale Mfrs.), Dixon, Ill.
Forest City Furniture Co. (Wholesale Mfrs.), Rockford, Ill.
Foster-Munger Co. (Wholesale Mfrs.), W 20th & S Sagamon, Chicago, Ill.
Gauger, Jno. A. & Co. (Wholesale Mfrs.), W 22d & Laflin, Chicago, Ill.
Gould Mfg. Co. (Wholesale Mfrs.), Oshkosh, Wis.

Grand Rapids Clock & Mantel Co., Grand Rapids, Mich.
Hegan Mantel Co., Louisville, Ky.
Hornet Mantel Co., 1114 Market, St. Louis, Mo.
Hyde-Murphy Co., Ridgeway, Pa.
Ironton Wood Mantel Co., Ironton, O.
Irving & Casson, 150 Boylston, Boston, Mass.
Jackson, Edwin A. & Bro., 50 Beekman, N.Y.
JACKSON, WM. H. COMPANY, 29 E
17th (Union sq), New York, and 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

Jamestown Mantel Co., Falconer, N. Y., & 884 Columbus av., New York
Kertscher & Co., Elmira, N. Y., & 13 Lawrence, New York
Killian Bros. & Sommer, 12th av & 30th, New York
King Mantel Co., Knoxville, Tenn.
Knoxville Furniture Co. (Wholesale Mfrs.), Knoxville, Tenn.
Leclair Mfg. Co., Edwardsville, Ill.

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King Mantel Co., Knoxville, Tenn.
Knoxville Furniture Co. (Wholesale Mfrs.), Knoxville, Tenn.
Leclair Mfg. Co., Edwardsville, Ill.
Lorenzen, Chas. F. & Co., 278 N Ashland av, Chicago, Ill.
McClamroch Mantel Co., Greensboro, N. O.

McMillen, R. Co. (Wholesale Mfrs.), Oshkosh, Wis.
Manhattan Mantel Co., 145 Av D, New York
Matthews Bros. Mfg. Co., Milwaukee, Wis.
Messer & Isenberg, 62 Springfield, Newark, N. J.
Mitchell, Robert Furniture Co., 624 Race, Cincinnati, O.

Mollne Furniture Works, Moline, Ill.
Moore, Geo., & Sons, Nashville, Tenn.
Morgan Co. (Wholesale Mfrs.), Oshkosh, Wis., & W 23d & S Union, Chicago, Ill.
Moss, R. L. Mfg. Co. (Wholesale Mfrs.), Athens, Ga.

Mount Airy Mantel & Table Co., Mount Airy, N. C.

Munson & Johnson, Jamestown, N. Y.
Muscatine Sash & Door Co. (Wholesale Mfrs.), Muscatine, Ia.
Nalle & Co. (Hard & Soft Wood Wholesale Mfrs.), Austin, Tex.

National Lumber Co. (100 Designs), McKeesport, Pa.

Nesbit, D. M. Co., Lewisburg, Pa.
Newark Mantel & Furniture Co., Newark, N. J.

New York Dimension Supply Co., Evansville, Ind.

Ocker & Ford Mfg. Co., Grand Rapids, Mich.
Ostendorf, W. H., 2417 N Broad, Phila., Pa.

Paine Furniture Co., 48 Canal, Boston, Mass.
Paine Lumber Co. (Wholesale Mfrs.), Oshkosh, Wis., & 1 Madison av, New York

Palmer-Fuller & Co. (Wholesale Mfrs.), 2244 Lumber, Chicago, Ill.

Paulson, John P., Denver, Colo.
Peterson, Geo. L. Co., 273 Sangamon, Chicago, Ill.

Phillips & Buttorf Mfg. Co., Nashville, Tenn.
Peirce, W. E. & Co., Milford, N. H.

Pottier & Stymus Co., 375 Lex. av., New York
Quincy Show Case Works, Quincy, Ill.

Rathbone & Panigot Co., Grand Rapids, Mich.
Richmond Wood Working Co., Richmond, Va.

Riggs Cypress Co. (Wholesale Mfrs.), Patterson, La.
Roach & Musser Sash & Door Co. (Wholesale Mfrs.), Muscatine, Iowa

Roberts, E. L. & Co. (Wholesale Mfrs.), W 22d & Union pl., Chicago, Ill.

Rock Island Sash & Door Works (Wholesale Mfrs.), Rock Island, Ill.
Rockford Mantel Co., Rockford, Ill.

Ross Mantel & Mfg. Co., Buffalo, N. Y., & 884 Columbus av, New York

Rummer, H. B., 367 W 11th, New York
St. Croix Lumber Co., 185 E Fairfield av, St. Paul, Minn.

St. Paul Furniture Co., 415 Rosabel, St. Paul, Minn.

Standard Mantel Co. (Wholesale Mfrs.), Knoxville, Tenn.

STEARNS, A. T. LUMBER CO., Neponset,
Boston, Mass. (See adv. index, end of book)

Sterling Furniture Co., 1039 Market, San Francisco, Cal.

Steuil & Thurman, 278 Johnson, Buffalo, N. Y.
Stuhlmiller Mantel Works, Buffalo, N. Y.

Sunshine Mantel Co. (Wholesale Mfrs.), Chanute, Kan.

Taylor, Wm. M., Mantel & Grate Co. (Inc.), Columbus, O.

Tell City Desk Co., Tell City, Ind.
Thauwald, C. F. & Co., 1214 Harrison av, Cincinnati, O.

Thompson, Lewis & Co., 18th c Indiana av, Phila., Pa.

Ticnesta Mantel Mfg. Co., Tionesta, Pa.

Voss, A. F. Mantel Co. (Wholesale Mfrs.), 16th & Arbegust, Louisville, Ky.

Warren Woodworking Co., Belvidere, N. Y.
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Zanesville Mantel & Furniture Co., Zanesville, O.

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Best Light Co., Canton, O.

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Bridgeport Ignito Mantle Co., Bridgeport, Conn.

Brilliant Gas Lamp Co., 42 State, Chicago, Ill.
Buffalo Gas Mantle Co., 15 Niagara, Buffalo, N. Y.

Cosmopolitan Co. ("Cosmopolitan"), Kansas City, Kans.

Cosmopolitan Electric Co., 115 Dearborn, Chicago, Ill.
 Denver Gas Mantle Co., Denver, Colo.
 Deutsch, Chas. (Plain and Fancy Webbing), 534 E 87th, New York
 Duquesne Incandescent Light Co., Pittsburgh, Pa.
 Empire Light Co., Buffalo, N. Y.
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 Forest City Incandescent Mantle Co. ("Paragon," "Monitor," "Ohio"), Cleveland, O.
 Freeman, Phillip, & Bros., 92 Bowery, New York
 Herz Lighting & Mfg. Co., St. Paul, Minn.
 Hickory Gas Mantle Co., St. Paul, Minn.
 Hipwell Mfg. Co., Pittsburgh, Pa.
 Illinois Mantle & Fixture Co., 160 Lake, Chicago, Ill.
 Irby & Gilliland, Memphis, Tenn.
 Liberty Gas Light Co. (Liberty & Francis Double Cap), 1334 N. High, Columbus, O.
 Lindsay Light Co., 195 Mich., Chicago, Ill.
 Manufacturers' Supply Co., Cleveland, O.
 Mica Mfg. Co., 307 W B'way, New York
 Michigan Gas Mantle Co., Detroit, Mich.
 Momand, S. S. Light Co. ("Arrow," "Brilliant," "Lion," "Sunlight"), 305 Columbus av, New York
 New Process Gas Mantle Co., 31 Bank, Philadelphia, Pa.
 Omaha Mantle Mfg. Co. ("Diamond"), Omaha, Neb.
 Peerless Light Co. ("Flexa"), 185 Lake, Chicago, Ill.
 Perfected Mantle Co., 18 Warren, New York
 Phoenix International Light Co., Milwaukee, Wis.
 Ramsdell Inverted Gas Lamp Co., 1123 B'way, New York
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 Smith, F. A. Mfg. Co., Rochester, N. Y.
 Solar Light Co., 381 Broome, New York
 Steward, D. M. Mfg. Co. ("Alva"), Chattanooga, Tenn.
 Thorium Light & Chemical Co., Columbus, O.
 Van Houten, E. J. S., 74 Park pl, New York
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 Welsbach Light Co. ("Majestic," "Shamrock," "Thenu," "Yusea," "Black Prince," "Metropolitan," "Clover," "Apollo," "Star," "Consul," "Aladin"), Gloucester, N. J.
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Marthens, Chester N. Co., 748 First National Bank bldg, Chicago, Ill.

Pickel Marble & Granite Co., 1901 N Broad way, St. Louis, Mo

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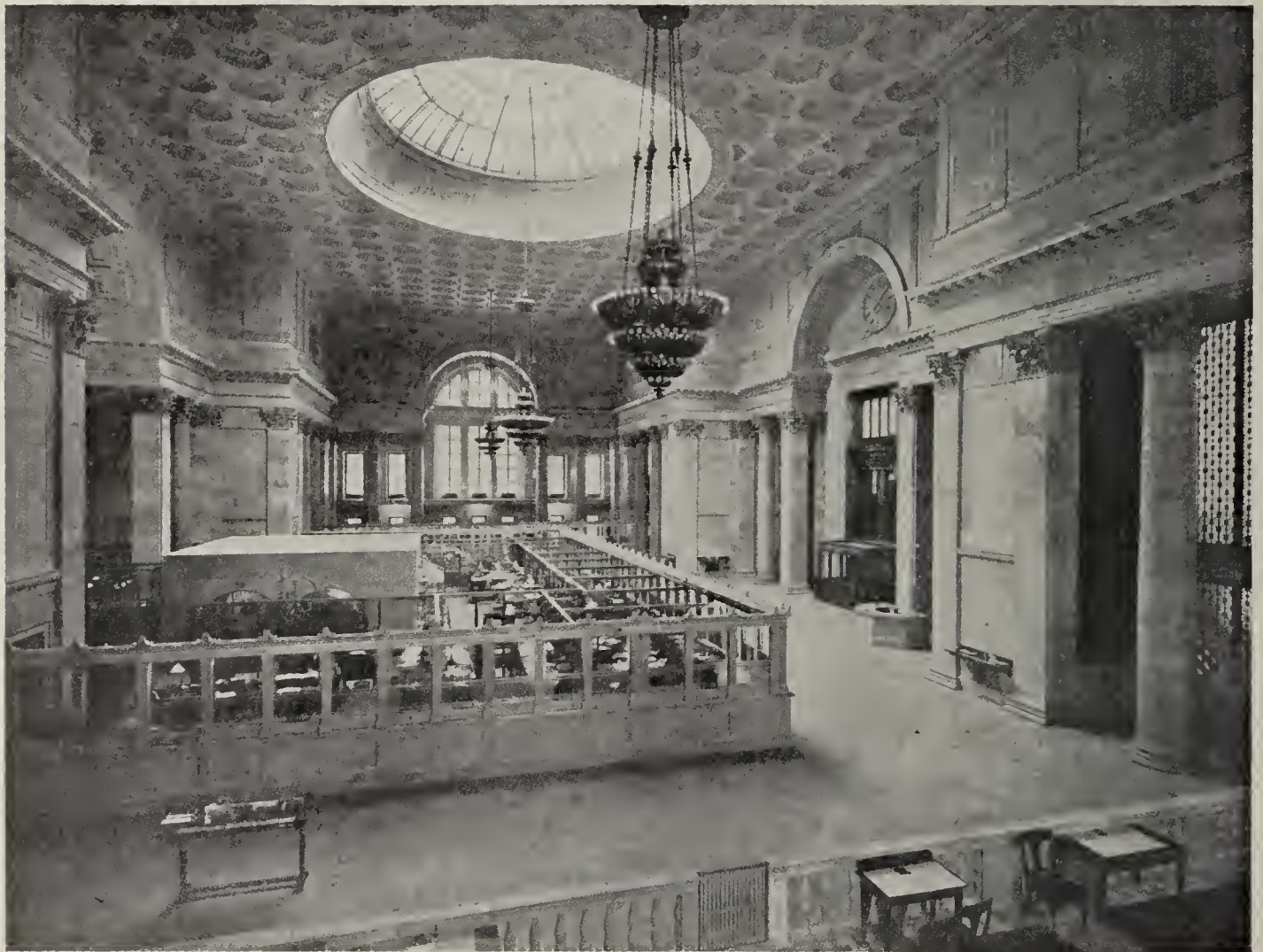
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end of book)

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Imperial Marble Co.

Knoxville Marble Co.

Knoxville Monumental Works

Republic Marble Co.

Ross, Jno. M.

Ross Marble Co.

Southern Monument Co.

Tennessee Producers' Marble Co.

United States Marble Co.

Victoria Marble Co.

VERMONT.**BURLINGTON**—Goodeil, J. W.**CLARENDON SPRINGS**—Orville Marble Co.**DORSET**—Bennington Marble Co.**EAST DORSET**—Manchester Marble Co.**FAIR HAVEN**—American Marble Co.

American Marble & Marbleized Slate

Warner, Jacob.

FOWLER—Rutland Florence Marble Co.**MANCHESTER CENTER**—Beebe, Wm. G.**MANCHESTER DEPOT**—Norcross - West
Marble Co. (White, White Mottled & Silver
Grey)**MIDDLEBURY**—Brandon Italian Marble Co.**PROCTOR**—Vermont Marble Co.**RUTLAND**—Vermont Marble Co., Centre Rut-
land**SWANTON**—Barney Marble Co.**WEST RUTLAND**—West Rutland Marble Co.**VIRGINIA.****RICHMOND**—Wray, Andrew J.***Marble (Rose Vif.)****BOCKMANN & SHEPARD, 1265-9 B'way,**
New York. (See adv. index, end of book)***Marble (Rosso Antico)****BOCKMANN & SHEPARD, 1265-9 B'way,**
New York. (See adv. index, end of book)**Marble (Royal Irish Green)**Fisher, R. C. & Co., E 139th & Locust av,
New York**Marble Sawing Machines**

(See Stone Sawing Machines)

Marble (Serpentine)**BOCKMANN & SHEPARD, 1265-9 B'way,**
New York. (See adv. index, end of book)Fisher, Robert C. Co., E 139th & Locust av,
New York**Jackson, C. D., 105th & E. R., New York**Tompkins-Kiel Marble Co., 505 5th av, New
YorkWestfield Marble & Sandstone Co. (Black &
Green). Westfield, Mass.***Marble (Skyros)****BOCKMANN & SHEPARD, 1265-9 B'way,**
New York. (See adv. index, end of book)***Marble Statuary****BATTERSON & EISELE, Main Office**
& Works, Edgewater, N. J., & Times bldg,
42d st, New York. (See adv. index, end of
book)***Marble (Styra, Cippolino)****BOCKMANN & SHEPARD, 1265-9 B'way,**
New York. (See adv. index, end of book)***Marble (Tinos)****BOCKMANN & SHEPARD, 1265-9 B'way,**
New York. (See adv. index, end of book)**Marble (Wholesale)**

(See also Marble Importers)

BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg,
42d st, New York. (See adv. index, end of
book)**BOCKMANN & SHEPARD, 1265-9 B'way,**
New York. (See adv. index, end of book)Bradbury Marble Co. (Georgia, etc.), 1229 S 2d,
St. Louis, Mo.California Marble & Construction Co., San
Francisco, Cal.Carthage Marble & White Lime Co. (Georgia &
Tennessee), Emilie bldg, St. Louis, Mo.Evans Marble Co., York & William, Baltimore,
Md.

Fenn, C. E. & Co., 164 Dearborn, Chicago, Ill.

Freddiey, J. K. & Sons, 210 S 24th, Phila., Pa.

HILGARTNER MARBLE CO., Stockholm
& Sharp, Baltimore, Md. (See adv. index,
end of book).**Jackson, C. D., 105th & E. R., New York**Piscani Bros., Astoria (Borough of Queens, New
York)

Roussel, Chas. J., 524 W 50th, New York

Southern Marble Co., Atlanta, Ga.

Taber & Co., 24 Corlears, N. Y.

Temple Bros., Rutland, Vt.

Tompkins-Kiel Marble Co. ("Eastman's,"
Cream, Green & White), 505 5th av, New
York

Vermont Marble Co., Main Office, Proctor, Vt.

Williamson, Frank, 2202 Chestnut, Phila., Pa.

Marble Workers' Tools

(See Tools, Granite & Stone Cutters')

Marblecrete

Marblecrete Products Co., Akron, N. Y.

Marbles (Playing)Johnston & Sharp Mfg. Co. (Hollow Steel), Ot-
tumwa, Ia.Standard Toy Marble Co. (Toy Marbles), Akron,
Ohio**Marine Railway Builders**Crandall, H. I. & Son Co. (For Dry Docks), 100
Border, E. B., Boston, Mass.

Devney, H. J. & J. P., Ashtabula, O.

Lalrd & Sons, Ashtabula, O.

Murray, Jas. & Son, 102 E York, Baltimore, Md.

National Water Tube Boiler Co., New Bruns-
wick, N. J.New London Marine Iron Works, New Lon-
don, Conn.**Marine Railways**

(See Dry Docks & Marine Railways)

Marine Repairs*GRISCOM-SPENCER CO., 90 West, New**
York, & ft. Washington av., Phila., Pa.

(See adv index & branch offices, end of book)

Markers (Center)

Cleveland Steel Tool Co. (Structural Iron),
Cleveland, O.
Wiedeke, Gustav & Co. (Boilermakers'), Day
ton, O.

Markers (Clap-Board)

Goodell-Pratt Co. ("Shepardson"), Greenfield,
Smith, Otis A., Rockfall, Conn. Mass.

Marquees

BOLLES, J. E. IRON & WIRE
Works, Detroit, Mich. (See adv. index, end of book)

COLUMBIA IRON & WIRE WORKS
Co., Canton, O. (See adv. index, end of book)

FLOUR CITY ORNAMENTAL IRON
Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index, end of book)

HALSTED, JOS. CO., 388 W Randolph, Chicago, Ill. (See adv. index, end of book)

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
Henry-Bonnard Bronze Co. (Bronze), Mount
Vernon, N. Y.

JACKSON, WM. H. COMPANY (Iron & Bronze) 29 E 17th (Union sq), New York
& 163 Michigan ave. Chicago, Ill.

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

PHOENIX STEEL CO. (Inc.) (Bronze or Iron), Putnam & P. R. R., Pittsburg, Pa. (See adv. index, end of book)

PITT, WM. R. COMPOSITE IRON Works (Iron & Glass), 136-138 W 24th, New York. (See adv. index, end of book)

REMPPIE, WM. F. CO., Reading, Pa. & 1506 Sansom, Phila., Pa. (See adv. index, end of book)

Richey, Browne & Donald, Maspeth (Boro of Queens), N. Y. City

SCHREIBER, L. & SONS CO., 8th & Eggleston av, Cincinnati, O. (See adv. index & branch offices, end of book)

SMITH, S. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

SOMMERVILLE IRON & BRONZE CO., 5637-5649 Butler, Pittsburg, Pa. (See adv. index, end of book)

STANDARD CO., Railway Exchange bldg., Chicago, Ill. (See adv. index, end of book)

TAYLOR & DEAN, Penn av & 25th, Pittsburg Pa. (See adv. index, end of book)

Tiffany Studios, 347 Madison av, New York
TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)

UNION FOUNDRY WORKS, 1st Nat'l Bank bldg, Chicago, Ill. (See adv. index, end of book)

VULCAN CO., Detroit, Mich. (See adv. index, end of book)

WINSLOW BROS. COMPANY, Main Office & Works, 2515 W Harrison, Chicago, Ill., & 103 Park av, New York. (See adv. index & branch offices, end of book)

Mashers (Potato)

Brown & Dowd Mfg. Co. ("Rapid" Masher & Beater), Meriden Conn.
Goodell Co., Antrim, N. H.
Hamblin & Russell Mfg. Co. Worcester, Mass.

Kilbourne Mfg. Co. (Wire), Troy, N. Y.
Lasher Mfg. Co. ("Lebanon," Masher & Beater), Davenport, Ia.

Metal Finishing Co., Union City, Conn.
Weed Mfg. Co., Laconia, N. H.
Wire Goods Co. (Wire), Worcester, Mass.

Masks (Base Ball)

Hamblin & Russell Mfg. Co. ("H. & R."), Worcester, Mass.

Masons' Leads

(See Plumb Bob Manufacturers)

Masons' Lines

Hoffman-Corr Mfg. Co., 55 White, New York
Ossawan Mills Co., Norwich, Conn.

SAMSON CORDAGE WORKS, 88 Broad, Boston, Mass. (See adv. index, end of book)

SILVER LAKE CO., 78 Chauncy, Boston, Mass. (See adv. index, end of book)

Masons & Builders

(See Builders, Contracting; also Contractors, General; also Plasterers, Ornamental)

Masons' & Builders' Materials

(See also Brick, Various Kinds)

Cement, Various Kinds.
Chimney Pipe, etc.
Fire-Proofing, Various Kinds.
Flue Linings.
Granite, Various Kinds.
Hangers, Joist.
Lath, Metal, etc.
Lime Mfrs.
Marble, Various Kinds.
Mortar Colors.
Plaster, Various Kinds.
Sand & Gravel Dealers.
Sewer Pipe.
Slate, Various Kinds.
Stone, Crushed.
Stone Producers, Workers, etc.
Terra Cotta, Architectural.
Wall Finishes.
Wall Ties.

ALABAMA.

ANNISTON—Anniston Lime & Stone Co.
Anniston Supply Co.
Houser, C. J.

Whetstone & Co.
BESSEMER—Edwards, G. B.
BIRMINGHAM—Am. Wood Fibre Plaster Co.

Birmingham Sand Brick & Supply Co.
Baldwin, J. Frank, 2217 Morris av

Brewer, W. P.
Carolina Portland Cement Co.

Cement Block Mfg. Co.
Savage Sand & Supply Co.

Wood Dickerson Co.
Woodlawn Supply Co.

EUFULA—Eufaula Lumber Co.
LONGVIEW—Longview Lime Works

MARION—Woodfin, S. V.
MOBILE—Bray, Harry H.

Mobile Coal Co.
St. John & Co.

MONTGOMERY—Alabama Lumber Co.
Bogacki, C. Y.

Hobbie, H. M. Grocery Co.
Kennedy Co.

Payne & Payne Building Material Co.
Riverside Brick Co.

Vandiver, W. F. & Co.
Vesuvius Lumber Co.

Winter, Loeb & Co.
SELMA—Schuster, B. J.

Tissler Hdw. Co.
SHEFFIELD—Marks, H.

ARIZONA TERRITORY.

DOUGLAS—Roy & Titcomb
PHOENIX—De Mund Lumber Co.

Ryder, H. W.
TUCSON—Tucson Lumber Co.

ARKANSAS.

BATESVILLE—Hanford (the) Stone & Lime Co.
HELENA—Carvill, Herman & Co.

Hargraves, D. T. & Co.
Stranh, N. Sons Mercantile Co.

JONESBORO—Barton Lbr. & Brick Co.
Stuck, C. A. & Sons

JONESBORO—Barton Lbr. & Brick Co.
Stuck, C. A. & Sons

LITTLE ROCK—Arkansas Brick & Mfg. Co.
Jones, Dudley E., Co.

Leifer Mfg. Co.
Leifer, G. A.

MAGNOLIA—Warnock, W. H.
PINE BLUFF—Bastrop Lumber Co.

Westbrook Grain & Commission Co.
TEXARKANA—Chatfield & Buhrman Hard-

CALIFORNIA.

ALAMEDA—Rhodes & Jamieson
BERKELEY—Foss, F. W. Co.

Wilhelmi & Co.
Taylor, Henry W.

EUREKA—Bayside Lumber Co.
FRESNO—Pierce, C. S., Lumber Co.

Valley Lumber Co.
LODI—Smith & Bryant Lumber Co.

Young, W. A., Lumber Co.

LOS ANGELES—Fuller, W. P. & Co., 144 N Los Angeles

Ganahl, C. Lumber Co., 830 E 1st
Grand Canyon Lime & Cement Co., ft of
Turner & Santa Fe R. R. Yards

Helsel, M. L., 636 S Hope
Los Angeles Lime Co., 359 E 2d

Los Angeles Storage, Commission & Lum-
Missall, E. H. & Co., 920 Towne ber Co.

Scherm, J. S., ft of Turner
Snyder Lime Co.

Spreckels Bros. Commercial Co., 125 W 2d
Union Lime Co.

Western Commercial Co., 425 E Market
MARYSVILLE—Marysville Sand, Cement

Block & Brick Co.
NAPA—Hatt, A. Warehouse & Lumber Co.

Shwarz, H. Co.
OAKLAND—Remillard Brick Co., 2d & Clay

Stone, E. B. & A. L. Co.
Weilbye, W. H., Telegraph av & 18th

PASADENA—Blinn, L. W. Lumber Co.
Kerckhoff-Cuzner Mill & Lumber Co.

PETALUMA—Kahn, A.
RED BLUFF—Holt & Gregg Co.

SACRAMENTO—Kreuzberger, Bartle
SAN DIEGO—Schirm, J. S.

SAN FRANCISCO—Baifour, Guthrie & Co., 320 Sansome

Brady, Mathew & Co., Monadnock Bldg.
Builders' Supply Co., 42 Eighth

Building Material Co., Monadnock Bldg.
Burgess, C. W., 1715 Mission

California Builders' Material and Mfg. Co.
Chuffuck & Harris, 710 Mission

Cowell, Henry, Lime & Cement Co., Buck-
Cunningham, G. H., 40 8th ley Bldg.

Dempster & Son, Merchants Exchange
Dolan Co., 1643 Market bldg

Fernald Co., 248 Tehama
Gillon, Edward E., 1432 Point Lobos av.

Glavin & Eyre, 426 California
Grace, Wm. R. & Co., 612 California

Holden & Deuprey Co., 126 W Mission
Holmes Lime Co., Mutual Savings Bank

Lennon, James E., 362 Church Bldg.
Liggett & McCroskey, 680 Mission

McNear, F. W., 2155 Canal
Meyer, Wilson & Co., 426 California

Monterey Lime Co., Battery & Wash'n
North Point Warehouse Co., Mason & Bay

Pacific-Portland Cement Co., Pacific Bldg.
Pendleton, H. C., 328 Fell

Prindie, Arthur, 185 Stevenson
Roskrans, H. & Co., 511 6th

Smith, Sterling W., Monadnock Bldg.
Snell, Edw. L., 425 Fulton

Spreckels, J. D. & Bros., 90 Clay
Sullivan, D. J. & T., 1942 Folsom

Tuttle, John, 110 Webster
United Builders' Supply Co., 687 Mission

United Materials Co., 10 3d
Waterhouse & Price, 228 Oak

Western Builders' Supply Co., 680 Mission
Western Building Material Co., 430 Call-

Western Fuel Co., 430 California fornla
Western Lime & Cement Co., 268 Market

Western Supply Co., Pacific Bldg.
Williams & Carter Co., 197 Jessie

Willkomm Building Supply Co., 149 Te-
SAN JOSE—Hart, H. & Co. hama

SANTA ANA—Pendleton, S. H. Lumber & Mill
SANTA BARBARA—Union Mill Co. Co.

SANTA ROSA—Berka, F.
STOCKTON—Hammond & Yardley

Hedges, Buck & Co.
VALLEJO—Aden Co.

COLORADO.

ASPEN—Tomkins, Lewis H. Hardware Co.
DENVER—Barrows, Geo. A. Lime Co., 1570 14th

Cement, Stone, Brick & Sand Co.
Cement & Lime Products Co.

Colorado Lime & Fluxing Co., McPhee Bldg.
Fisher, Francis J. & Co., 1704 16th

Fleming Bros., 139 Broadway
Hallack Lumber & Supply Co., 3901 Gilpin

Hathaway, S. T., 11th cor Wewatta
McPhee & McGinnity, 18th c Wazee

Pearl Lime & Coal Co., 1475 W. Colfax av.
Portland Cement Co. (Mfrs. & Jobbers), Colo-

rado Bldg.
Rocky Mountain Fuel Co., 1010 16th

Sayre-Newton Lumber Co., 23d & Blake
Threewit, Benj. F., 1700 15th

Western Cement & Lumber Co., 9th & 23d
GREELEY—Neill & Ward

LEADVILLE—Harvey, John Fuel & Feed Co.
Leadville Hdw. Co.

Williams Lumber Co., 6th & Hemlock
PUEBLO—Newton Lumber Co.

RED CLIFF—Fleming, J. F. & Co.
ROCKY FORD—English, R. W. Lumber Co.

TRINIDAD—Davis, O. L. Lumber Co.
Hughes Bros. Lumber Co.

CONNECTICUT.

BERLIN—Merwin Brick Co.
 BRIDGEPORT—Burns & Co., 83 Fairfield
 Purdy, Henry M. Co., 550 Water
 Wheeler & Howes, United Bank bldg.
 BRISTOL—Judd, D. B. & Co.
 Saxton & Strong, 155 N. Main
 BROOKFIELD—New England Lime Co.
 CANAAN—Canfield Lime Co.
 DANBURY—Osborn, A. C.
 DANIELSON—Nichols, James A. & Co.
 Young Bros.
 DERBY—Abbott & Co.
 GREENWICH—Brush, Joseph
 Maher Bros.
 HARTFORD—Belden, Seth & Son, 69 Commerce
 Billings Sidewalk & Coal Co., 437 Sheldon
 Coburn, Charles, 154 State
 Hartford Pulp Plaster Co., 300 Sargeant
 Putnam, H. E., 300 Sargeant
 Watson, Alexander
 JEWETT CITY—Church, R. R.
 LAKEVILLE—Spurr, E. W. Co.
 MANCHESTER—Hollister, Wesley
 MERIDEN—Lines, H. Wales Co., 134 State
 Lyon & Billard Co., 13 S. Colony
 MIDDLETOWN—Davis, L. O. & E. S.
 Suzlo, Leonardo
 MILFORD—Smith, D. E.
 NEW BRITAIN—City Coal & Wood Co., 246 Main
 Damon, W. L.
 NEW CANAAN—Weed & Turner
 NEW HAVEN—Atwater, W. J. & Co., 962 Grand

Conn Adamant Plaster Co., 10 River
 Howard Co., 250 Boulevard
 Lightbourne & Pond Co., 33 B'way
 New England Stone Co.
 Warner-Miller Co.
 NEW LONDON—Ladd, F. M. Co.
 Marquardt Bros.
 NEW MILFORD—Beach, O. M.
 Soule, T. Co.
 NORWALK—Hubbell, Hall & Randall Co.
 Meeker Coal Co.
 NORWICH—Carpenter, A. N.
 Chappel, E. Co.
 Peck, McWilliams & Co.
 PORTLAND—Strong & Hale
 PUTNAM—Fox, Jno. O. & Co.
 Kinney, Myron & Son
 Wheaton Building & Lumber Co.
 ROCKVILLE—Hill, Geo. W.
 ROXBURY STATION—Hodge, A. L. & Son
 SEYMOUR—Beach, A. Y.
 SHELTON—Clark, D. N., 32 Bridge
 SOUTHTON—Southington Lumber & Feed Co.
 SOUTH NORWALK—(See Norwalk)
 SOUTHPORT—Northrop Bros.
 STAMFORD—Bounty, A. E.
 SUFFIELD—Spencer Bros.
 TORRINGTON—Bronson Lbr. & Coal Co.
 Hotchkiss Bros. Co.
 WALLINGFORD—Gallagher Bros.
 WATERBURY—Bergen, Edw. & Sons, 475
 Chatfield, Geo. S. Co., 73 Canal Baldwin
 Chatfield & Chatfield, 99 Benedict
 Gaffney, John W. & Son, 427 E Main
 Lane, Alfred H.
 McManus, Edw.
 WATERTOWN—Atwood, C. W.
 Hitchcock Hardware Co.
 WEST REDDING—New England Lime Co.
 WILLIMANTIC—Hillhouse & Taylor, 47 Milk
 WINDSOR LOCKS—Eldwell, F. S. & Co.
 WINSTED—Bronson Bros.
 Burwell, J. C.

DELAWARE.

GEORGETOWN—Thoroughgood, Wm. J.
 MIDDLETOWN—Hnkill, G. E.
 NEWARK—Wright, H. B. Co.
 NEW CASTLE—Eliason, J. T. & L. E.
 NEWPORT—Justis, Justa G.
 WILMINGTON—Conloy Bros.
 Pyle, Victor R.
 Warner, Chas. Co. (Wholesale)
 Woodward & Bro.

DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 614 11th, N W
 Barker, Geo. M., 649 New York av, N W
 Clark, T. E., 1305 N. J. av
 Cranford Paving Co., 2620 E, N W
 Hartig, Gustav, 509 H, N E
 Hartig, Louis, 1001 7th, N W
 McGill, Jas. H., McGill bldg
 National Mortar Co., 612 F, N W
 Rosslyn Supply Co., Colorado bldg
 Walker's, J. T. Sons, 1740 7th, N W
 Water, J. G. & Sons, 1045 Wisconsin av.
 Wyne, J. R. & Co., 209 12th, NW

FLORIDA.

DAYTONA—Malcy, R. S.
 GAINESVILLE—Baird Hdw. Co.
 JACKSONVILLE—Jacksonville Concrete Co.
 Richardson, H. H. & Co. (Front Brick, Cement, Lime, Wall Plaster, etc.)
 Southern Fuel & Supply Co.
 KEY WEST—Curry's, Wm. Sons, 611 Front
 Ocala—Melver & MacKay (Dealers)
 ORLANDO—Bumby, Jos.
 PALATKA—Kennerly Hdw. Co.
 Merryday Grocery Co.
 ST. AUGUSTINE—Hamblen, C. F.
 SANFORD—Fernald, Geo. H. Hardware Co.
 Hill, A. E.
 TAMPA—Knight & Wall Co.
 Phillips, I. W. Co.

GEORGIA.

ALBANY—Cruger & Pace
 Weston, J. D. & Son
 AMERICUS—Hamil, A. J., 515 Cotton av
 ATHENS—Athens Hardware Co.
 Bailey Supply Co.
 ATLANTA—Carolina Portland Cement Co.
 Davis, W. P., 534 S Pryor
 Dunning & Son
 Kriegshaber, V. H.
 Randall Bros., Peters bldg
 Seiple Sons, W. Fair & Cen. R. R.
 AUGUSTA—Burum & Co.
 Dunbar, B.S.
 Merry Bros.
 Rutherford & Co.
 Tarver, J. E.
 BRUNSWICK—Coney & Parker
 CARTERSVILLE—Ladd Lime Co.
 CEDARTOWN—Hall & Barr
 COLUMBUS—Beach, Wm. Hardware Co., 1120 Broad
 Dudley Sash & Door Co.
 Elledge & Norman Marble Co.
 Gruzard Supply Co.
 Harvey, W. T. Lumber Co.
 Shepherd Bros.
 CORDELE—Cordele Sash, Door & Lumber Co.
 Hutchinson Lumber & Supply Co.
 DALTON—Cherokee Mfg. Co.
 Farrar Lbr. Co.
 MACON—Burke, T. C., 358 3d
 Elder, W. F.
 Massee & Felton Lbr. Co.
 Wilder's, R. C. Sons Co., 614 3d
 MARIETTA—Henderson, C. E.
 MILLEDGEVILLE—Walker, W. A.
 Walker, W. A.
 ROME—O'Neill Mfg. Co.
 SAVANNAH—Butler, J. G. Builders' Supply Co.
 Gallagher-Louis Co.
 General Building Supply Co.
 Lovell's, Edw. Sons
 Neal-Blum Co.
 Savannah Building Supply Co.
 THOMASVILLE—Dillon, J. W.
 Evans & Son

HAWAII.

HONOLULU—Lewers & Cooke, Ltd.

IDAHO.

BOISE—Ridenbaugh, W. H., 9th & Front
 Sanders, Francis Co.
 Shaw Lumber Co.
 IDAHO FALLS—Dill, J. W.
 LEWISTON—Fertterling, J. A.

ILLINOIS.

ALTON—Alton Builders' Supply Co.
 Alton Lime & Cement Co.
 Miller, J. B.
 AURORA—Aucutt's, Gus, Sons
 Dalton, J. D., & Son
 Hanna & Todd
 Seamans, S. D.
 White & Todd
 BARRINGTON—Lageschulte, Henry J. & Co.
 Lamey & Co.
 BATAVIA—Barker, W. P. & Son
 Eager, Jas.
 Hunter-Griffith Co.
 BEAVERVILLE—Lambert, H. Co.
 BELLEVILLE—Daab, Fred Co.
 Reeb Bros.
 Schaefer, Wm. & Emil
 BELVIDERE—Wright, O. H. & Co.
 BEMENT—Wilkinson Co.
 BLOOMINGTON—Darlington, E. R. Lumber Co.
 Evans, John W. Sons Co.
 Harwood, W. S. & Bro.
 Parker Bros.
 White, Sam'l R. Mfg. Co.
 BUSHNELL—Simpson & Co.

CAIRO—Halliday, H. H. Sand & Gravel Co.
 Halliday, W. P. (Est. of)
 Lancaster & Rice Lumber & Mfg Co., Commercial av
 Langan, P. T.
 CARLINVILLE—Woodward, S. S. Hardware
 CARROLLTON—Widdowson, J. M. Co.
 CARTHAGE—Helfrich, N. J. & Co.
 Lyon, W. E. & Co.
 CATLIN—Jones, A. & Sons
 CHANDLERVILLE—Goodell, J. H. & Son
 CHARLESTON—Fuller Bros.
 CHATSWORTH—Walter, Geo. J.
 CHENOA—Dexter & Schmitt.
 CHICAGO—Alpha Portland Cement Co., Marquette bldg
 Artesian Stone & Lime Works Co., 138 Washington
 ATLAS PORTLAND CEMENT CO., First National Bank bldg
 Bos, John N. (Sand), 473 Chrystal
 Carpenter & Browning (Sewer Pipe, etc.), 40th av & Taylor
 Chicago Building Material Co., 164 Dearborn
 Chicago Clay Products Co., 43d av & Taylor
 Chicago Lime Co., 138 Washington
 Chicago Portland Cement Co. (Cement Mfrs.), 108 La Salle
 Chicago Union Lime Works Co., 138 Wash'n
 Dee, Wm. E. Co. (Sewer Pipe), 169 Jackson boul
 Druecker, N. J. & Co., 1497 Artesian av
 Frerk, Henry, 484 W Belmont av
 Garden City Sand Co., 134 Washington
 German American Portland Cement Works (Cement Mfrs.), 204 Dearborn
 Jenkins & Reynolds Co., Chamber of Commerce bldg
 Knickerbocker Ice Co., 171 La Salle
 Lake Shore Sand Co., 138 Washington
 Lill, James E. (Lime), 1225 Bryn Mawr av
 Longwell Teaming & Storage Co., 2246 Lbr
 Magiff, T. M., 164 Dearborn
 Marquette Cement Mfg. Co. (Cement Mfrs.), 204 Dearborn
 Meacham & Wright Co. (Cement), 206 La Salle
 Michigan Plaster Co., The Rookery
 Mississippi Valley Portland Cement Co., 1st Nat'l Bank bldg
 Moulding, Thos. Co., 138 Washington
 Raschke, O. F., 3600 Winchester av.
 Richardson Sand Co., 138 Washington
 Rockwell Lime Co., 604 S Talman av
 Sandusky Portland Cement Co. (Cement Mfrs.), 138 Washington
 Schultz, Fred. (Lime), 159 W 16th
 Snyder, Wm. J., 960 N. 43d av.
 Staley, M. A. Co. (Sewer Pipe), Cornelia av & C M & St P Ry
 Stearns Lime & Stone Co., 165 E. Randolph
 Templeton Lime Co., 510 N. Homan av.
 Tobin, T. M. Bros. Co., 9326 S Chicago av
 Tuthill Building Material Co., 229 W. 63d
 Viall, O. A., 737 120th
 Vulcanite Portland Cement Co. (Cement Mfrs.), 138 Washington
 Waukesha Lime & Stone Co., 965 N. Central Park av
 Williams, N. A. Co. (Sewer Pipe, etc.), Chamber of Commerce bldg
 Wisconsin Lime & Cement Co., 138 Wash'n
 Wolverine Portland Cement Co. (Cement Mfrs.), 138 Washington
 CLINTON—Kent, E. & Co.
 COLLINSVILLE—Steinmeyer, H. & Bro.
 DALLAS CITY—Black & Loomis Co.
 DANVILLE—Ganor, M. & Son.
 Holden, N. E.
 DECATUR—Parke, V. H. & Son Co.
 EAST ST. LOUIS—Flannery, P. & Son, Terminal Belt
 Hill, W. H. Lime & Cement Co., 6th and Walnut
 EDWARDSVILLE—Hotz Lumber Co.
 EFFINGHAM—Wildi-Leddy Lumber Co.
 ELGIN—Adams, Fred M.
 Bosworth, F. S. & Son
 Geister, C. H.
 Knickerbocker Ice Co.
 McBride, T. & Son
 Seymour, Wm. H.
 Wells & Sherwood.
 EL PASO—McKinney & Co.
 EVANSTON—Connor, J. C. Co.
 Wigginton, James
 FAIRFIELD—Fairfield Lumber Co.
 FLANAGAN—Litchfield Bros.
 FORREST—Opie, W. H.
 FREEPORT—Brubaker, E. F.
 Grant, Thos.

FULTON—Snyder, J. C.
 GALESBURG—Hinchliff Lumber Co.
 Simpson, J. C. & Co.
 Terry, W. E., Lumber Co.
 GALVA—Houghton, E. W. Lumber Co.
 GENESEO—Goss, John W. & Co.
 Turner Lumber Co.
 GENOA—Merritt & Hadsall
 GIBSON CITY—Smith, A. J.
 GRANITE CITY—Granite City Lime & Cement Co.
 GRAYSLAKE—Wilbur, F. C., Lumber Co.
 GREENFIELD—Entrekin, J. H.
 GREENVIEW—Tripp Bros.
 HAMPSHIRE—Kirchoff Bros.
 HARVARD—Hall, W. D.
 Lake, Harris & Backus
 HARVEY—Harvey Coal Co.
 HIGHLAND PARK—Middleton, John
 HINCKLEY—Pogue Bros. Lumber Co.
 HOPESTON—Illinois Lumber, Grain & Coal Co.
 HUME—Lyons, Oliver.
 HUTSONVILLE—Hutsonville Brick & Tile Co.
 JACKSONVILLE—Andrews, B. P. & Sons
 JERSEYVILLE—Christy, John (Lime)
 Cockrell, E. Lumber Co.
 JOLIET—Buck, Werden
 Hays, A. W.
 Leach, Hy. & Son
 Truby, M. & Son
 KANKAKEE—Kankakee Tile & Brick Co.
 Latoud, T. & Son
 Ruelhe, Christian
 KEWANEE—Johnston Lumber Co.
 Porter, Jas.
 KEYESPORT—Langham, Wm.
 LA GRANGE—Vial, Joseph
 La SALLE—Hunter, Stevens & Co.
 Hunter, Stevens & Co.
 LEMONT—Derby, S. L. Lumber Co.
 LINCOLN—Spellman & Spitley
 LOAMI—Baker, George W.
 McLEAN—Dodgson, L. P. & Son
 MALTA—Halsh & Veale
 MATTOON—Andrews Bros.
 MENDON—Nutt, W. T. & Son
 METROPOLIS—Gibbons, A. J.
 MILFORD—Jones Bros.
 MINONK—Kipp, A. B.
 MOLINE—Moline Sand Co.
 Wood, Beder
 MONMOUTH—McCullough Lumber & Coal Co.
 MONTICELLO—Lodge, W. F.
 Maier, John
 MORGAN PARK—Derby, S. O.
 MORRIS—Huff, D. S.
 MORRISON—Potter, M. H.
 MOUNT CARROLL—Rhodes Bros. & Co.
 MOUNT MORRIS—Wingert & Clevidence
 NASHVILLE—Weihe, W. O.
 NEWMAN—Thomas, R.
 OAK PARK—Bryant Bros.
 PARIS—McCord & Risser
 Propst Lumber Co.
 PEKIN—Conklin, Reuling Co.
 Lampit, Ed. F.
 Zimmer, E. & Co.
 PEORIA—Mackemer Lumber Co.
 Miller, Jos. & Sons
 Peoria Fuel Co.
 Wasson, T. J.
 PERU—Zimmerman, Christian & Co.
 PETERSBURG—Anderson, Chas.
 PONTIAC—Smith, F. N.
 PORT BYRON—Port Byron Lime Ass'n
 PRINCETON—Davis & Son
 Houghton Lumber Co.
 QUINCY—Menke, F. W. Stone & Lime Co.
 Meyer, W. D.
 Middendorf Bros.
 Miller & Vanden Boom Lumber Co.
 Quincy Lumber Co.
 Quincy White Lime & Cement Co.
 Williamson, H. A.
 ROCK FALLS—Smith & Grader
 ROCKFORD—Hart & Page, 110 N Court
 McDermaid, John
 McFarland-Colton Co.
 Safford, G. N. & Co.
 Skandia Coal & Lumber Co., 708 7th
 ROCK ISLAND—Empire Coal & Coke Co.
 Frazer, Edwin G.
 Mueller Lumber Co.
 Port Byron Lime Ass'n
 Rock Island Sand & Gravel Co.
 Tropp-Darling Co.
 SAVANNA—Ithodes, W. P.
 SPRINGFIELD—Baker & Baker
 Etelson, Aolag
 Irwin, H. C.
 Schnick, J. H. & Son
 Vredenburg, Peter Lumber Co.
 STANFORD—Jones, C. S. Lumber Co.
 STERLING—Dillon, Moses Co.

STREATOR—Ames, J. C. Lumber Co.
 Schmid, George A.
 Streator Lumber Co.
 SYCAMORE—Holcomb Bros.
 North Side Lumber Co.
 URBANA—Huff, S. E. & Co.
 UTICA—Utica Cement Mfg. Co.
 Utica Hydraulic Cement Co.
 WADY PETRA—Chase, Heber & Co.
 WARREN—Taylor, C. F.
 WATERMAN—Pogue Bros. Lumber Co.
 WAUKEGAN—Bairstow, F.
 WEST SALEM—Miller Bros.
 WHEATON—Sutcliffe, John
 Wheaton, F. E. & Son
 WHITE HALL—White Hall Sewer Pipe & Stoneware Co.
 WOODLAND—Anderson, J. W.

INDIANA.

ALEXANDRIA—Brannum Lumber Co.
 ANDERSON—Bailey, J. W. & Co.
 Vernon, E. G. & Son, N Main
 ANGOLA—Gilbert T. R.
 Shank, Daniel
 ATTICA—Martin, H. C. & Co.
 BLOOMINGTON—Hughes Bros.
 BOONVILLE—White, C. P. Lumber Co.
 White, C. P. Lumber Co.
 BRAZIL—Haistead, J. N.
 McCrea & Brown Co.
 BREMEN—Stelneck, J. H.
 BROOKVILLE—Fries, A. & Sons
 Masters, J. H.
 CARLSLE—Risinger & Ellis
 CICERO—Cicero Lumber Co.
 CLAY CITY—Gnrl, B. M.
 COLUMBUS—Dunlap & Co.
 Hege & Co.
 CONNERSVILLE—Williams Bros.
 CORYDON—Bulleit, J. J. Son
 COVINGTON—Clark, M. H.
 CRAWFORDSVILLE—Binford, J. & Sons
 EAST CHICAGO—Flack Bros.
 ELKHART—Consumers Coal Co.
 Godfrey, B. C. & Sons
 Martin & Amidon
 Sanders, Jacob P.
 ELWOOD—Winters Lumber Co.
 EVANSVILLE—Baird, L. M., 220 U Water
 Eichel Lime & Stone Co.
 Eigenmann, Louis P., 200 L Water
 Lensing, H. A., 420 Sycamore
 Reichtin, Theo. E., 27 L 7th
 Sonntag, G. W., 228 2d av
 FAIRMOUNT—Mercer, Brannum & Bevington
 FORT WAYNE—Gilmartin, Edward
 Moellerings, Wm. Sons, 55 Murray
 GREENFIELD—Conklin, A. P.
 GREENSBURG—Pulse & Porter
 HAGERSTOWN—Knapp, C. T.
 HAMMOND—Hammond Coal Co.
 Hammond Lumber Co.
 HUNTINGTON—Bash, C. E. & Co.
 Keefer & Bailey
 Ohio & Western Lime Co.
 INDIANAPOLIS—Aldag & Coonse Co., E Wash'n & Belt
 Builders' Supply Corporation, 342 E Wash-
 lington av
 Consolidated Coal & Lime Co., 13 Virginia
 Dalton Lumber Co., 30 S Noble
 Dell, Frank M., 730 E Wash'n
 Gill & Greenen, 2220 E Wash'n
 Indianapolis Coal Co., 113 N Penn.
 Indianapolis Mortar & Fuel Co., 13 Virginia
 Keenport, A. B. & Co., 314 W North
 Keller, Julius Construction Co., 1100 E
 Md.
 Malcott Coal & Lime Co., 935 N Davidson
 Meyer, A. B. & Co., 17 N Penn
 Pierson Building Material Co., 230 E
 Ohio
 Wales Coal & Lime Co., Martindale av.,
 Big Four Ry.
 KENDALLVILLE—Deibele, John
 KNOX—Long, John W.
 KOKOMO—Armstrong, Landon Co. (Cements)
 LAFAYETTE—Lyman, Harry B.
 LAPORTE—Moore & Richter
 Wilson, W. Lumber Co.
 LAWRENCEBURG—Wright, J. C., & Sons
 LOGANSPOUT—Dilley, C. L. & Co.
 Lux, Harry
 MADISON—Miller, W. H.
 Ross & Klmmell
 MARION—Overman & Baldwin
 Southall, Geo. A., & Co.
 MICHIGAN CITY—Michigan City Lumber &
 Coal Co.
 MUNCIE—Hamilton, George B.
 Muncie Builders' Supply Co.
 NEW ALBANY—Slider, Edw. T.
 NORTH VERNON—N. V. Lumber Co.
 Tripp Bros.
 PETERSBURG—Drof, Peter.

PLYMOUTH—Linkenhelt, Lawrence
 RENESSLAER—Day, Hiram
 RICHMOND—Farnham, Charles S.
 Hackman, Klehforth & Co.
 Mather Bros. Co.
 ROCKPORT—Partridge, C. M. & W. A.
 ROCKVILLE—Dooley & Dooley
 Ott Hardware Co.
 SEYMOUR—Mills, Mrs. A. W.
 SHELBYVILLE—Parrish, J. O.
 SHERIDAN—Palmer, G. H.
 SOUTH BEND—Defrees, C. H.
 Hoban & Roach
 TERRE HAUTE—Austin Hardware Co.
 Reiman & Steeg Co., 903 Wabash av
 Terre Haute Coal & Lime Co.
 UNION CITY—Fisher, S. J.
 Knapp Supply Co.
 Short, John
 VINCENNES—Bosworth, M. A.
 McIlvaine, H. R.
 WABASH—Smith-Hubbard Lumber Co.

IOWA.

ACKLEY—Frudden Lumber Co.
 BURLINGTON—Bernard Bros. & Mercer
 Phillips Lime & Coal Co.
 Rand Lumber Co.
 CEDAR RAPIDS—Iowa Stone Co.
 King's Crown Plaster Co.
 CHARITON—Stewart, G. J. & Co.
 CHELSEA—Hrabak, Joseph
 CHEROKEE—Weart & Lysaght
 CLARINDA—Richardson, G. W.
 CLINTON—Shoecraft, S. & Son Co., 1st & 5th
 av
 COLUMBUS JUNCTION—Reaney & Ellason
 CORNING—Newcomb, W. & Co.
 CORYDON—Niday, C. A. & Co.
 COUNCIL BLUFFS—Besley Brick Co.
 Bluffs City Lumber Co.
 Hafer, C.
 Hoagland, Geo. A.
 Quinn, H. A. Lumber Co.
 CRESTON—Green Bay Lumber Co.
 Tramp Bros.
 DAVENPORT—Abel Lime & Cement Co., 1801
 Rockingham road
 Builders' Lime & Cement Co.
 McCosh & Co., 1010 Harrison
 DEEP RIVER—Phelps, Axtell & Co.
 DES MOINES—Des Moines Fuel & Lime Co.,
 511 Mulberry
 Des Moines Hard Mortar Co., 406 E Walnut
 Dietz & Leveke
 Gilchrist, J. K. & W. H., 301 E Locust
 Maine, Jas. & Sons Co.
 DUBUQUE—Linehan & Molo
 Mettel Bros.
 FAIRFIELD—Cable, G. W., Jr.
 FORT DODGE—Fort Dodge Brick & Tile
 FORT MADISON—Atlee, S. & J. C. Works
 GLENWOOD—Ridgeway, F., & Son
 HAMPTON—Moore Bros.
 IOWA CITY—Leinbaugh, W. F.
 IOWA FALLS—Miller & Foote
 KEOKUK—Cameron, Jas. & Sons
 Carter, S. C. & S. Co.
 McNamara's, J. Sons
 Mississippi Coal & Ice Co.
 KEOTA—Wright, S. S.
 LE MARS—Knorr & Schafer
 Moore, M. A. & Co.
 Perry, W. H.
 LYONS—Foley, T. J.
 Joyce Lumber Co.
 MAQUOKETA—Hurst, A. & Co.
 MASON CITY—Mason City Brick & Tile Co.
 Mason City Clay Works
 Mason City Lime & Cement Co.
 MONTEZUMA—Moler, Clark & Co.
 MUSCATINE—Wallace, R. T. & Son
 Wallace, R. T. & Son
 NEW HAMPTON—Bigelow & Donivan
 NEWTON—Jasper Lumber Co.
 OSKALOOSA—Gilchrist, M. D. & Co.
 Porter, C. M. Lumber Co.
 OTTUMWA—Ostdiek, H. P.
 Tisdale, F. A. & Co.
 SERGEANT BLUFFS—Holman, C. J. & Bro.
 SIOUX CITY—Neas, A. M.
 SIOUX CITY—Corn Palace Electric Construction
 Honx, Frank T. Co., 508 Wate
 McNeill, H. C. & Son
 Oneal, J. H. & Co., Stenben c 3d
 Webb Bros. Co., Pierson c 3d
 SPENCER—Floete Lumber Co.
 Perlne, A. C.
 STEAMBOAT ROCK—Greef Lbr. Co.
 TAMA—Hill, B. F.
 TRAER—Baker-Warfield Lumber Co.
 WALL LAKE—Peck, W. H. & Co.

WATERLOO—Bryant, W. A. & Sons Co.
Chapman, C. W. Lbr. Co.
Fuoss, J. H.
Waterloo Lbr. Co.
WEBSTER CITY—Young & Clifton
WEST UNION—Graham & Schenck
Hoyt Hardware Co.

KANSAS.

ATCHISON—Blish-Mize & Silliman Hdw. Co.
Carlisle-Pennel Lumber Co.
Lewis, W. H.
BLUE RAPIDS—Electric Plaster Co.
CHETOPA—Shields, J. F.
ELLINWOOD—Chatten, S. H.
ELLSWORTH—Lake Superior Lumber Co.
EMPORIA—Emporia Lumber & Coal Co.
Evans, J. E.
Kirkwood, J. G.
Watson-Ballweg Lbr. Co.
FORT SCOTT—Brown Lumber Co.
Fort Scott Hydraulic Cement Co.
Kansas City & Fort Scott Cement Co.
FULTON—Fulton Lumber Co.
GALVA—Galva Lumber Co.
GARFIELD—Waymire, N. O.
GODDARD—Pond, W. M. & Co.
HANOVER—Thiele, E. W. & Bro.
HAYS—Schwaller, C. & Son
HOLTON—Brown & Hedge
HUMBOLDT—Osborn, J. H. & Son
HUTCHINSON—Hutchinson Lbr. & Planing
Kansas Lumber Co. Mill Co.
White, L. J. Lbr. Co.
IOLA—Klein, Paul
Northrup Lbr. Co.
JUNCTION CITY—Brown, Geo. T.
Geary County Lumber Co.
Moses, Geo. C.
KANSAS CITY—Armourdale Lumber Co.
Frankenfield Sand & Fuel Co., Central av
James, A. R. & Son, 1017 N. 4th
Wyandotte Coal & Lime Co., 553 Minn. av
LAWRENCE—Achning, Chas.
American Cement Plaster Co.
Lawrence Vitrified Brick & Tile Co.
LEAVENWORTH—Crancer, J. W. & Co.
Geiger, A. M.
McDonald, P. J.
LYONS—Taylor & Sons
McPHERSON—Lake Superior Lumber Co.
Sudendorf, H. H.
MANHATTAN—Highnbotbam, Scott N.
MARION—Newton Lumber Co.
NESS CITY—Daniel, F. W.
NEWTON—Newton Lumber Co.
Swartz, S. M. Lumber Co.
OBERLIN—Foster Lumber Co.
OLATHE—Rheem Lumber Co.
OTTAWA—Hallgren, J., 402 S Main
Harris, M. R., 114 W 4th
Rohrbough & Co.
PARSONS—Clark & Bates Lumber Co.
PEABODY—Davison & Co.
PHILLIPSBURG—Smith, Theo. & Son
PITTSBURG—Pittsburg Lumber Co.
SALINA—Eberhardt Lumber Co.
Leidigh & Havens Lumber Co.
Sudendorf, H. H.
STAFFORD—Stafford Lumber Co.
STERLING—Fair, D. J.
TOPEKA—Thomas, J. Lumber Co.
Thomas, J. Lumber Co.
Thomas, Jonathan & Son
VALLEY FALLS—Legler, Mell & Son
WALTON—Moorhead, A. R.
WAVERLY—Star Grain & Lumber Co.
WICHITA—Jackson-Walker Coal & Material
Stocker, O. B., 143 N Water Co.
Turner, J. H.

KENTUCKY.

ASHLAND—Beckette, O. F. L. & Co.
Gates Brick Co.
Strack, E. W.
Van Sant, Kitchen & Co.
BOWLING GREEN—Phillips, Aaron
COVINGTON—Covington Coal & Sand Co.
Kenton Supply Co.
Spinks, T. W.
DAYTON—Hunter, M. R., Sr.
Walter Bros.
FIREBRICK—Portsmouth Granite Brick Co.
FRANKFORT—Congleton, T. J. & Bro.
FULTON—Bransford, G. H. & Son
GLASGOW—Dickinson Bros.
HENDERSON—Blackwell, P. A. & Co.
HODGENSVILLE—Read Mercantile Co.
HOPKINSVILLE—Dalton Bros.
Dalton, H. M. Stone Co.
LEBANON—Johnston & Casky

LEXINGTON—Des Cognets, Louis & Co.
Justice, F. T. & Co.
LONDON—London Mfg. Co.
LOUISVILLE—Bannon, P. Sewer Pipe Co.,
508 W Jefferson
Kentucky Wall Plaster Co., Fulton, nr 1st
Louisville Cement Co. (Cement Mfrs), 331 W
Speed, J. B. & Co., 331 W Main Main
Uilon Cement & Lime Co. (Cement Mfrs),
Utica Lime Co., 421 W Main 421 W Main
MADISONVILLE—Hall, W. L.
Ruby Lumber Co.
MAYSVILLE—Matthews, W. B. & Co.
NEWPORT—Allen, M. M., 634 Monmouth
Dauzenberg, Joseph
Spinks, Charles
PADUCAH—Katterjohn, F. W. Cons. Co.
Langstaff-Orm Mfg. Co.
SHELBYVILLE—Gruber, L. H. & Sons
Hall & Chowning
VERSAILLES—Berryman, C. M.
Woodridge Bros.
WARSAW—McDanells, J. H. Sons Co.

LOUISIANA.

BUNKIE—Haas, W. D. & Co.
DONALDSONVILLE—Lemann, B. & Bro.
LAFAYETTE—Mouton, A. E.
Vordenbauman Lumber Co.
MONROE—Monroe Grocer Co.
Monroe Hardware Co.
Southern Grocer Co.
MORGAN CITY—Dalton, Jno.
Loeb, Leopold & Sons Co.
NEW IBERIA—Dreyfus, Jules
NEW ORLEANS—Builders' Supply Co., 2021
Magazine
Carolina Portland Cement Co., 2029 Callopo
Clarke, J. J. Co., 1111 Julia
Cleary, T. B., 800 S Carrollton av
Demoruelle, Jas. & Sons, 602 N Basin
Ford, F. Codman, 304 Baronne
Garnier, Emile, 1601 N Robertson
Hiller, Alfred Co., 534 Magazine
Jahncke, Fritz, 814 Howard av
Judlin, Peter, 2311 N Rampart
Kearny, J. Watts & Sons, 423 Gravier
Kracke & Flanders, 630 Gravier
Louisiana Lime Co., Hennen bldg
Prados, Henry J.
River Sand & Gravel Co., 816 Howard
Roca, Joseph V., 604 N Robertson
Thompson, Edward Co., 530 Natchez
Tupper, Allen, 713 Union
Woodward, Wight & Co. (Ltd.), 406 Canal
Zimmerman's Building Specialties Co. (Ltd.),
2131 Magazine
SHREVEPORT—Allen Mfg. Co.
Ardis & Co.
Crawford, Jenkins & Booth
Henderson, W. K. Iron Works Supply Co.
Hicks Co. (Ltd.), 117 Texas
Lee Hardware Co.
Taylor, W. F. Co.
Vordenbauman-Eastham Co.
THIBODAUX—Southern Investment Co.

MAINE.

AUBURN—Beece, Geo. B. & Son
AUGUSTA—Purinton Bros. Co.
BANGOR—Cassidy, Jno. & Son
Dunning, R. B. & Co.
Hopkins, A. R. Co.
Lowell & Engel
Rice & Miller
BATH—Nichols-Read Co.
BELFAST—Cooper & Co.
BIDDEFORD—Andrews & Horrigan Co.
Banks, C. K.
BRUNSWICK—Hacker, C. E.
CALAIS—Eaton, H. B. & Co.
CAMDEN—Camden Lumber Co.
CUMBERLAND MILLS—Goff, E. W.
FAIRFIELD—Totman, Arthur H.
FOXROFT—Gilman, A. W. & Co.
GARDINER—Decker & Day Hdw. & Coal Co.
Harrington, G. H.
HALLOWELL—Wingate, Frank S.
HARRISON—Casswell, H. H.
Jordan Bros.
HOUTON—Madigan & Madigan
Merritt, E. & Sons
KENNEBUNK—Gilpatrick, Thomas L.
LEWISTON—Hall & Knight Hardware Co.
Hayes, J. L. & Co., 282 Main
MECHANIC FALLS—Penney, J. W. & Sons
Co.
PORTLAND—Chase, Charles S. Co., 5 Com'l
Cox & Ward Co., 169 Forest av Wharf
Libby, E. & Sons Co., 76 Pearl
Lord Bros. Co., 1 Central Wharf

Portland Pipe Co.
Portland Sand & Gravel Co.
Redion, N. E. Co., 226 Federal
ROCKLAND—Farrand, Spear & Co.
Glover, W. H. Co.
Spear, F. R.
SANFORD—Moulton Bros.
WATERVILLE—Flood, Geo. S. & Co.
Purinton, H. Co.

MARYLAND.

ANNAPOLIS—Martin, C. W. & Co.
Parlett & Parlett
BALTIMORE—Brady, Edwd. & Son, 915
Park av.
Bullock, Jno. S. & Son, 213 McElderry's
Carson, Wm. T., Law Bldg Wbarr
Clark, Henry, 1112 Winchester
Clarke, Wm. Wirt & Son, Monument &
Clark, Henry, 1112 Winchester Forest
Cook, Henry E., 1052 N. Front
Elenbrok, Fredk., 2104 Fkd av
Filbert Paving & Construction Co., 1210
Block
Gault, Wm. A. & Son, 9 E Lexington
Gegner, Geo. A., 43 Eastern av ext
Gore, M. F., 202 E 22d, N
Green, Robt. S., 853 Fkd. av ext
Hay, Geo. M., 14 N Greene
Hudson Cement & Supply Co., 4 E Lex.
Johuson, L. F., 406 N Howard
Lewis, Frank I., 910 W Pratt
Maryland Lime & Cement Co. (All
Kinds), Carroll bldg
National Building Supply Co., 418 E Pratt
Sack, Geo. & Son, Lauraville
South Baltimore Building Supply Co., 1520
Light
Spengemann & Bro., 304 N Central av
Standard Lime & Stone Co., Equitable bldg
Sunner & Gerlach, 1401 N Register
Thomas, Jos. & Son, 820 Leadenball
Walbrook Coal & Supply Co., 2634 W
North av
Warren, Lawrence J., 213 E Falls av
Washington Building Lime Co., Equitable
bldg.
BEL AIR—McComas Bros.
BROOKLYN—Gels, Jno. H. & Co.
CHESAPEAKE CITY—Woolley & Bennett
CHESTERTOWN—Bacchus, J. D.
CUMBERLAND—Cumberland Hydraulic
Cement & Mfg. Co.
Cumberland & Potomac Cement Co.
EASTON—Dixon, Robert B. & Co.
ELLICOTT CITY—Talbot, E. A.
FREDERICK—Bowers, W. D. Lumber Co.
Markell & Ford
HAGERSTOWN—Cushwa, Victor & Sons
HANCOCK—Bridges, J. T. & Co.
HYATTSVILLE—Carr, C. F. & Bro.
Magruder, W. P.
LAPIDUM—McGonigall, M. F.
LAUREL—Shaffer, C. F.
Waters, Geo. W.
ST. MICHAELS—Dodson, E. N.
WILLIAMSPORT—Cushwa, Victor & Sons

MASSACHUSETTS.

ADAMS—N. E. Lime Co.
ANDOVER—Hardy & Cole
ARLINGTON—Pierce & Winn Co.
ATHOL—Fay, Henrie C.
Palge, C. F. & Co.
ATTLEBORO—Carpenter Coal & Lumber Co.
BEVERLY—Pickett Coal Co.
BOSTON—Berry & Ferguson, 159 Devonshire
Bryant, Edw., 30 Kilby
Carter, Thomas, 30 Kilby
Coombs, Frank E., Old South bldg
Curtis & Pope Lumber Co., 774 Albany
Davis, Jas. A. & Co., 92 State
Eastern Clay Goods Co., 79 Milk
FISKE & COMPANY (Inc.), 25
Arch. (See adv. Index, end of book)
Ham & Carter Co., 560 Albany
Hannon, F. J., 166 Devonshire
Lash, A. F., Co., 25 D
Lewis, D. W. Co., 24 Milk
Mitchell, W. S., 10 Willow, W. R.
Mullen, W. R., 95 Milk
Nash, Willard G., 206 State
New England Adamant Co., 325 Medford
Norcross, W. C. Co., 95 Milk
Nute, A. T. & Co., 380 W 1st. S. B.
O'Connell, J. P. & Co., 95 Milk
Portland Stone Ware Co., 49 Federal
Rockland-Rockport Lime Co., 24 Milk
Splers-Fish Brick Co., 79 Milk
Stetson, Cutler & Co. (Lime), 70 Kilby
United Building Material Co., 11 Milk
Waldo Bros., 102 Milk
Weston, W. M. Co., 120 Milk
Windsor Cement Co., 166 Devonshire

BRADFORD—Taylor, Goodwin Co.
 BRIDGEWATER—Keith, Sumner
 BROCKTON—Mitchell, Isam & Co.
 CAMBRIDGE—Clark Bros., 2464 Mass. av.
 CAMBRIDGEPORT—(See Cambridge)
 CHELSEA—Phillips & Hodgdon
 Tukey, S. S. & Co.
 CHICOPEE—Rourke, Patrick
 CLINTON—Frazer, C. & Sons
 Fuller, Wm. A.
 DEDHAM—Fisher—Churchill Co.
 EAST BRIDGEWATER—Dean, Joshua (Est. of)
 EAST LONG MEADOW—Whitaker, F. H.
 EAST WHITMAN—Cook, R. W.
 EVERETT—Green & Harrington
 Murphy, D. P.
 FALL RIVER—Borden, Guiney & Kendall
 Borden & Remington
 Prosser, Wm. & Son, 943 Pleasant
 Staples Coal Co., 404 Davol
 Wilson, Jas. H., 2000 N. Main
 FITCHBURG—Dillon, D. M.
 Fitchburg Hardware Co.
 FRANKLIN—Metcalf, O. F. & Sons
 Ray, Jas. F.
 GARDNER—Curtis, H. O.
 Davis, J. Walter
 Favor, M. M.
 GLOUCESTER—Griffin & Co.
 Nauss, L. B. & Sons
 GREENFIELD—Lamb Bros.
 HARWICH—Moody, J. M.
 HAVERHILL—Chase, D. D. Lumber Co.
 Taylor—Goodwin Co.
 HINGHAM—Kimball, Geo. E.
 Whitney, Everett E.
 HOLYOKE—Burnham, C. G., 127 Main
 Landers, D. J.
 Lynch Bros. Brick Co.
 O'Connell's, Daniel Sons
 Prentiss, Brooks & Co., 56 Main
 HUDSON—Jones, E. A.
 Robertson & Larkin
 HYANNIS—Crocker, T. & Sons
 Sears, J. K. & B. & Co.
 HYDE PARK—Darling, F. W. Co.
 IPSWICH—Glover, John S.
 LAWRENCE—Gage, G. L., 594 Essex
 Lawrence Lumber Co.
 O'Mahoney, M., 8 West
 Runnells, O. B., 8 Jackson
 Theberge, Bros., 170 Valley
 Treat Hdw. & Supply Co., 584 Essex
 LEE—Heaphy, Wm. A.
 LOWELL—Barton, Cyrus
 Bennett, Jno. C., 269 Dutton
 Cawley, Edward, 131 Central
 Cogger, P.
 Connors Bros. Co.
 Livingstone Grain Co., 15 Thorndike
 Mullin, Jos., 953 Gorham
 Sherman, Moore & Co.
 Staples Bros. Co. (Sewer Pipe), School n
 Sullivan, D. T., 45 Perry Gas Works
 Wilson, E. A. & Co.
 LUDLOW—Burr Co.
 LYNN—Lamper, J. B. & W. A., ft of Pleasant
 Whitbredge & Co., 2 sea av
 MARBLEHEAD—Martin, J. S. & Co.
 MALDEN—Kaulhack, W. S.
 Locke Coal Co.
 Neville, Thos. J.
 Robinson, J. H. Co.
 MANSFIELD—King, A. D.
 MEDFORD—Covin, J. N. & Co.
 Highland Coal Co.
 MELROSE—Benson Coal Co.
 Goss, C. B. & F. H.
 MELROSE HIGHLANDS—Hellen, S. H.
 MIDDLEBORO—Cushing, M. H. Co.
 MILFORD—Field, Z. C.
 NANTUCKET—Killeen, John
 Swain, William T. (Est. of)
 NATICK—Robinson & Jones Co.
 Whitney, E. & Co.
 NEPONSET—(See Boston)
 NEW BEDFORD—Borden, H. T. & Co.
 Greene & Wood
 Paine, S. S. & Bro.
 Paisler, Chas. S.
 NEWTONVILLE—Nonantum Coal Co.
 NORTH ARINGTON—Reed, A. B.
 NORTH ADAMS—Burlingame & Darbys Co.
 Sykes Coal & Grain Co.
 NORTHAMPTON—Bailey, W. A.
 Matthews, A. C.
 Sullivan, J. A.
 ORANGE—Orange Hdw. Co.
 Potter, A. D.
 PALMER—Flynt Bldg. & Construction Co.
 PEARODY—Trask, J. Arthur
 PITTSFIELD—Camwell, C. C., 65 Columbus av
 Howard & Morrow, 59 North

PLYMOUTH—Atwood, Anthony
 Sampson, Ernest L.
 PROVINCETOWN—Dyer, B. H. & Co.
 Lewis & Brown
 QUINCY—Crane, F. H. & Son
 Richards, A. J. & Son
 READING—Bancroft, Wendell & Co.
 ROCKLAND—Culver, A. Co.
 SALEM—Langmaid, J. P. & Sons
 Pickering, G. W.
 SHELBURNE FALLS—Newell, H. & Co.
 SOMERVILLE—Highland Coal Co., 367 High-
 Sparrow, E. S. & Co. land av
 SOUTH FRAMINGHAM—Fales, A. Sons Co.,
 SPRINGFIELD—City Lumber Co. 2 Beach
 Harder, Franklin
 McKenzie, Wm. D., 23 Yale
 New York & New England Pulp Plaster
 Corporation
 Noble, Burton E., 38 Sanford
 Puffer, H. C. Co., 194 Lyman
 Shea, T., 19 Hampden
 Viets, S. D. Co., 55 Cypress
 Wilder, John W., 129 State
 TAUNTON—Sanders, C. V. & Co.
 Staples Coal Co., 50 City sq
 TURNERS FALLS—Webster, F. I.
 UXBRIDGE—Harris, William M.
 WALTHAM—Buttrick Lumber Co.
 Carney, J. Coal Co., 70 Calvary
 Waltham Coal Co., 663 Main
 WAREHAM—Gurney, Ansel S. & Co.
 WATERTOWN—Pewear, W. H. & Co., 5 Spring
 WESTFIELD—Gladwin, L. Jr., 224 Elm
 Mahoney, P. J., 46 Orange
 WEST NEWTON—Eddy, C. F. Co.
 WEST STOCKBRIDGE—New England Lime
 Tobey Bros. Co.
 WEYMOUTH—Rhines, J. B. & Co.
 Sanborn, W. F. & Co.
 WINCHESTER—Blanchard, George W., &
 WOBURN—Barker Lumber Co. Co.
 Wyman, R. B.
 WORCESTER—Gongh, H. D. & Co.
 Marsh, B. F., 24 Maywood
 Powers, Frank E., 20 Southgate
 Smith-Green Co.
 Streeter, E. S. & Sons
 Wilson & Holden, 154 Main

MICHIGAN.

ADRIAN—Gimbert, Thomas
 Matthes Bros.
 Stevenson, F. A. & Son
 ALLEGAN—Crocker & Knapp
 Green, F. H.
 ALMONT—Hart & Sullivan
 ALPENA—Collins, Richard
 Fox, Owen
 ANN ARBOR—Sweet, G. W.
 Wood, Frank
 AUGUSTA—Marvin, H. M.
 BAD AXE—Carey, W. H. & Co.
 BANGOR—Broadwell, William M.
 BATTLE CREEK—Dibble & Latta
 Kirkpatrick, W. J.
 Rnpt & Morgan
 Stiles, I. H.
 BAY CITY—Boutell Bros. & Co.
 Young, F. P.
 BAY SHORE—Elk Cement & Lime Co.
 BELLEVILLE—Miller, Frank
 Wallace, W. A.
 BENTON HARBOR—Robbins, W. P.
 BESSEMER—Hanson, Cornelius
 BIG RAPIDS—Sloss, William J.
 BRIGHTON—Hyne, F. T. & Co.
 CADILLAC—Cobbs & Mitchell
 Manktelow, C. J.
 Wilcox Bros.
 CALUMET—Armstrong & Thielman Lumber
 CARO—Van Tine, G. N. Co.
 CARSON CITY—Rockafellow Grain Co.
 CASSOPOLIS—Hayden, W. B. & Son
 COLDWATER—Pollock, S. & Son
 COLEMAN—Simons, T. B. Mercantile Co.
 CROSVELL—Helm, Paul
 Quail, D. & Son
 DEARBORN—Wallace, James D. (Est. of) (Also
 Lumber)
 DETROIT—Boomer, I. E., Forest av, E. & D
 G. H. & M. Ry
 Brady & Co., Butler bldg.
 Brown & Brown Coal Co
 Calvert's, J., Sons
 Cooper, A. & W.
 Dickinson, H. H., 422 Grand River av.
 Heal, George
 Frames, W. E. & Co., 75 Woodbridge, W
 Holmes, F. B. & Co., Hammond bldg
 Houghton, Hy., Hammond bldg
 Little, Charles H. Co., Peninsula Bank bldg
 McKerchey, John M.

Meyer, R. M.
 Michigan Builders' Supply Co., c Forest av
 E. & D. G. H. & M Ry.
 National Sand & Cement Block Co.
 Standard Portland Cement Co., Majestic
 Steffes, M. & Co. bldg.
 Steinheiser, Christian P.
 Stevens, F. B., 3d & Larned
 Thomas Bros. & Co., Hammond bldg
 U. S. Gypsum Co., Peninsular Bank bldg
 Wabash Portland Cement Co., Ford bldg.
 DOWAGIAC—Bishop Hardware Co.
 Judd, M. & Son
 Lindsly, J. A. & Co.
 Schmitt Bros.
 DRYDEN—Booth, Robert
 EATON RAPIDS—Webster, H. P. & Son
 ELK RAPIDS—Elk Cement & Lime Co.
 ESCANABA—Nee, Coleman
 FAIR GROVE—Richardson, F. H. & Co.
 FENNIVILLE—Dickinson & Raymond
 FENTON—Potter, Burdick & Son
 FLINT—Doyle, Thos.
 Matthewson, Fred G.
 Randall Lumber & Coal Co.
 Switzer Bros.
 FOWLERVILLE—Rounselle, F. G.
 FREEPORT—Fox, W. & Co.
 GRAND LEDGE—Astley, T. W.
 Doty & Doty
 GRAND RAPIDS—Battjes Fuel & Building
 Boer, James Material Co.
 Himes, Albert Coal Co.
 Home Fuel Co.
 Hulst & Van Henlen Fuel Co.
 Hyde, Albert, 860 Madison
 Knowlson, A. B., under National City
 Mol, James, 101 W Leonard Bank
 Norman, S. A. & Co.
 Superior Lime Co.
 Wykes-Schroeder Co.
 HANCOCK—Stringer, J. S.
 HILLSDALE—Aldrich, G. A. & Son
 HOLLY—Hudson, M. M.
 HOUGHTON—Van Orden, Matthew Co.
 HUDSONVILLE—Hughes, B. & T. (Also Saw
 IMLAY CITY—Walker, Walter & Co. Mill)
 IONIA—Page, W. C. & Co.
 IRON MOUNTAIN—Holfeltz, J. R. Co.
 ISHPEMING—Consolidated Fuel & Lbr. Co.
 Losselyong Bros.
 JACKSON—Bartlett, J. E. Co.
 Howind, C. A.
 Lake, Ulrickson Co.
 KALAMAZOO—Darling, Wm. P.
 Dewing & Sons
 Molhoek, Peter
 North & Coon Lumber Co.
 Sales, James A.
 LAINGSBURG—Sharpe, C. D.
 LAKEVIEW—Macomber & Bale
 LANSING—Lacy, P. E. & Co.
 Lansing Artificial Stone Co.
 LAPEER—Cutting, Frank R.
 King, Robert Lumber Co.
 LUDINGTON—Kieswiler, John
 MANCERLONA—Mancelona Mfg. Co.
 MANCHESTER—Kelly, James
 MANISTEE—Buckley & Douglass Lumber Co.
 Duncan, J. W.
 Sands, Louis
 MANISTIQUE—White Marble Lime Co.
 MANTON—Meyer Hdw. Co.
 MARLETTE—Wilson, H. W.
 MARQUETTE—French, George E.
 MARSHALL—Blanchard & Bull
 MASON—Michelson, Carl P.
 MEMPHIS—Memphis Roller Flouring Mills
 MEMONONEE—Lyon Bros. & Co.
 Nowack, F. C.
 MILFORD—Cate & Son
 MONROE—Radtke August
 MOUNT CLEMENS—Paganetti, John S.
 Ulrich, R. C. Hardware Co.
 MUIR—Hawley, West & Co.
 MUSKEGON—Holton Brick Co.
 Kanitz, L. H.
 NEW BALTIMORE—Baker, William
 NILES—Earl, B. F.
 Smith, C. R.
 Smith, W. Hillis
 OTSEGO—Siple, George H. & Co.
 GWSSO—Todd, Albert & Co.
 PAW PAW—Waters, H. C. & Co.
 PLAINWELL—Bush & Granger
 Wilson & Man
 PONTIAC—Osmun, W. H.
 PORT HURON—Cruikshank, A. G.
 Jarvis Bros.
 Jenks, Taylor, Howard & Co.
 PORTLAND—Estep, Chas. A.
 QUINCY—Kinyon, E. H. & Son
 READING—Hartwell & Dolg

REED CITY—Stoddard, W. A. Welsh Mfg. Co.
SAGINAW—Morley, Ewen & Co., E Side Remer Bros., 300 Madison, W. S.
ST. CLAIR—Belknap & Phillips
ST. JOHNS—Hicks, John C.
ST. JOSEPH—Wallace, John & Sons
SALINE—Ford, E. W. & Son
SOUTH ROCKWOOD—Strong, John
SPRINGPORT—Hoag, R. B. & Son
STANTON—Pierson, John W. S. & Co.
TECUMSEH—Slayton & Son
THREE RIVERS—Case, F. M. & Co. Griffith, John
TRAVERSE CITY—Hannah & Lay Mercantile
VASSAR—Miller, Frank
WALDRON—Abbaduska & Son
WAYNE—Wallace, John B.
WEST BAY CITY—Emery, John H. & Co.
WHITE PIGEON—Driesbach, F. C.
WILLIAMSTON—Dennis, M. A.
WYANDOTTE—Wayman Coal & Ice Co.
YALE—Wharton & Co.
YPSILANTI—Thompson, O. E. & Sons Webster Bros. & Sons
ZEELAND—Zeeland Brick Co.

MINNESOTA.

ADRIAN—Becker, J. C. Shull, J. & W. C.
ALEXANDER—Page, L. A. Lumber Co.
ANOKA—Chesley, Frank A. McCauley, George A.
BIWABIK—Colvin—Robb Lumber Co.
BLOOMING PRAIRIE—Solberg, A. Lumber Co.
CLOQUET—Fish, L. A. & Co.
DULUTH—Cutler, D. G. & Co., Providence bldg. Dixon & Lory Kelly Island Lime & Transport Co. Paine & Nixon Co., 106 W Mich. Standard Salt & Cement Co.
FERGUS FALLS—Barbeau, Dave Gray, F. H.
LITCHFIELD—Esbjornson, John
MADELIA—Gove, E. L.
MANKATO—Coughlan, T. R. Fowler & Pay Mankato Lime & Stone Co.
MILAN—Anderson, T. Christensen Bros.
MINNEAPOLIS—Cutler, D. G. Co., Lumber Ex. Fosseen Hardware Co. Fowler & Pay, Security Bank bldg. Guarantee Cement & Stone Co., 221 5th Johnson, Henry O. st, S Landers—Morrison—Christenson Co., Lumber Exchange Menomonie Hydraulic Press Brick Co., 10 Minneapolis Cedar & Lumber Co. N 3d Minneapolis Lime & Cement Co., 210 2d Miracle Pressed Stone Co. st, S Northwestern Lime Co., Lumber Ex. Paine, Asa Superior Mfg. Co., Lumber Exchange Union Railway Storage Co., Security Bank United States Gypsum Co. bldg
MOORHEAD—Moorhead Brick Co.
MORA—McIrhargay, S. D.
NEW ULM—Bingham Bros.
OWATONNA—Laird, Norton Yards Thompson, J. M. & Son, Hardware Co.
PELICAN RAPIDS—Stenerson Bros.
RED WING—Lillyblad, Gustave
ROCHESTER—Dodge Lumber & Fuel Co.
ROLLING STONE—Schuh Bros.
ST. CLOUD—Gruber & Co.
ST. PAUL—Alpena Portland Cement Co. Bell, D. L., 270 Jackson Dana Warehouse Co. Eureka Stone Co., McClure bldg. Grant, I. A. (S. St. P.) Lott, K. F., Ryan bldg. Northwestern Lime Co., 68 Lower Levee St. Paul Lime & Cement Co., 2d & Jack-son Shakopec Cement & Lime Mfg. Co., 22d Spates, S. P. & Co., 164 E 3d Chestnut Wilson, O. G. & Co.
SAUK CENTER—Ingram Lumber Co.
SHAKOPEC—Schroeder Brick & Lime Mfg.
STILLWATER—Consolidated Lumber Co. Co. Kilty, Jno. J.
WARREN—Lundgren, August Robertson Lumber Co. St. Hilaire Retail Lumber Co.
WINDOM—Strunk, Sherwin Co.
WINONA—Hodges, A. W. O'Dea, John Standard Lumber Co. Stevenson Coal Co. Willis, H. J.

MISSISSIPPI.

BILOXI—Rosell, T. J. Mfg. Co.
GREENVILLE—Neal-Dolph Lumber Co.
GREENWOOD—Barrett, A. H. & Son
JACKSON—Jackson Lumber Co. Morrison Bros.
MERIDIAN—Hester Coal Co.
VICKSBURG—Beck, Jno. W. Crook, R. L. & Co. Williams, P. P. Co. Worrell, W. O. & Co., N Wash'n Wright Bros.
YAZOO CITY—Powell, J. F. Quekemeyer, Geo. H.

MISSOURI.

BETHANY—Cadle Lumber Co. Miner & Frees
BEVIER—Rowland Bros.
BOONVILLE—Burger, Wm. & Son Meierhoffer, Chas. Roberts, E. H., Jr.
BROOKFIELD—Bettleheim, A. E. Co.
BUTLER—Logan-Moore Lumber Co. Wyatt, H. C. & Son
CALIFORNIA—Mengel, W. H.
CARTHAGE—Harrison, J. F. Home Lumber Co. Thomas, B. F.
DE SOTO—Herman, Otto
ELDORADO SPRINGS—Logan-Moore Lumber Co.
FARMINGTON—Lang & Bro. Tetley-Klein Lumber Co.
FAYETTE—Lacrosse Lumber Co.
FREDERICKTOWN—Fredericktown Brick Co. Fredericktown Lumber Co.
FULTON—Callaway Hardware Co.
GALLATIN—Ballew, T. W.
HANNIBAL—Hannibal Lime Co.
HOLDEN—Starkey, I. (Est. of)
JEFFERSON CITY—Hogg, Edw. R., Lumber
JOPLIN—Chickering, H. L. & C. L. Co.
KANSAS CITY—Brockett, C. A. Cement Co. Bryant Supply Co., Bryant bldg. Builders' Material Supply Co., Scarritt bldg. Creel, T. C. Lumber Co., 5th & Central Deatlerage Lumber Co., 1600 Indiana av. Dickey, W. S. Clay Mfg. Co., N. Y. Life Eadie Building Supply Co. bldg. Fellows Supply Co., Dwight bldg. Fort Scott Cement Association Halliwell Cement Co. (Cement Mfrs.), 312 E 9th International Trading Co., New England Iola Portland Cement Co. Life bldg. Kansas City & Fort Scott Cement Co. (Cement Mfrs.), 121 W 8th Kansas City Portland Cement Co. Lynch-Watkins Lime & Cement Co., 1900 McKinney, Howard C. Walnut Merrill, J. W. Missouri Lime & Cement Co., 203 Commerce bldg. Portland Cement Co. Roll Coal & Lime Co., 1929 Main Westport Lime & Cement Co.
LEBANON—Lingsweller, J. G.
LEXINGTON—Moorhead, J. R.
LUTESVILLE—Clark, H. A.
MARSHALL—Page, E. R. Rose Bros.
NEOSHO—Briggs Hardware Co.
POPLAR BLUFF—Reynolds, Jesse
ST. JOSEPH—Badger Lumber Co., 6th & Penn Biles, N. D. L. & Co., 1422 S 6th Burgess-Frazer Iron & Hardware Co. Dougherty & Moss Lumber Co., 10th & Mitchell av
Nold, C. H. Lumber Co., 1212 N 4th Nowland, F. Preston & Newcomb, 5th & Patee Ray, E. W. & Son, 802 S 7th
ST. LOUIS—Acme Cement Plaster Co., 904 Olive Banner Lime & Cement Co., 2436 Kosciusko Carthage Marble & White Lime Co., Wainwright bldg. Glencoe Lime & Cement Co., 1400a Old Manchester road Goetz, Chas. W., Lime & Cement Co., 3527 Gratiot Hunkins-Willis Lime & Cement Co. (whole sale), 18th & Austin Illinois Steel Co., 506 Olive Iola Portland Cement Co., 420 Olive Martin, Lawrence & Co., Parnell & Nat'l Bridge rd Meramec Portland Cement & Material Co. Ste. Genevieve Lime & Quarry Co., Mermod & Jaccard bldg St. Louis Portland Cement Co., Prospect Hill Station, C., B. & Q. Ry. Union Sand & Material Co., Liggett

SEDALIA—Babcock Lumber Co. Johns, S. P. & Sons Looney & Bloess Lumber Co. Missouri Central Lumber Co. Sturges Lumber Co.
SPRINGFIELD—Marblehead Lime Co. Rogers & Baldwin Hdw. Co. Springfield Planing Mill & Lumber Co.
TIPTON—Ferguson, Wm. M. Schmidt, Wm., & Co.
TRENTON—Trenton Lumber Co.
UNION—Reinhard, Chas. P.
WEBB CITY—Matthews, C. E.
WENTZVILLE—Michel, Henry
WEST PLAINS—Holt, S. J. Lumber Co.
WINDSOR—Arnold, Hayden & McKee

MONTANA.

ANACONDA—Anaconda Copper Mining Co. Stagg, J. P.
BILLINGS—Allen, H. M. & Co. Babcock, A. L. Hardware Co.
BOZEMAN—Brown, J. N.
BUTTE—Anaconda Copper Mining Co. Butte Sewer Pipe & Tile Co. Citizens' Coal Co.
DILLION—Dillon Lumber Co.
GREAT FALLS—Graham & Ross Great Falls Lumber Co. Holter-Boorman Lumber Co. Murphy-MacClay Hardware Co.
HELENA—Holter, A. M. Hdw. Co., 113 N Prescott, A. K. Sanford & Evans Main

NEBRASKA.

BEATRICE—Beatrice Brick Works Von Steen, J. H. (Wholesale) Wiebe, J. G.
BLAIR—McQuarrie, John
FREMONT—Nye-Schnelder-Fowler Co.
GOTHENBURG—West, E. G.
GRAND ISLAND—Harrison, W. H. Schmidt, Louis
HEBRON—Young, Knode & Co.
HUMBOLDT—Philpot & Tanner
KEARNEY—Gilcrest, F. H. Lumber Co. Seeley, C. S.
KENESAW—Kenesaw Lumber Co.
LINCOLN—Brown, F. W. Lumber Co. Dierk's Lumber & Coal Co. Searle & Chapin Lumber Co. Whitebreast Coal & Lumber Co. Young, R. S. Building Supply Co.
LOUP CITY—Ohlsen Bros.
NEBRASKA CITY—Bickel, J. R. Bischof, Wm.
NELIGH—Brenton, T. H.
NORFOLK—Chicago Lumber Co. Edwards & Bradford Lumber Co. Mittlestadt, L. C.
NORTH PLATTE—Iddings, C. F.
OMAHA—Adams & Kelly Co., 1529 Sherman Bullard, Haughland & Benedict, Izard c 20th Cady, H. F. Lumber Co., 6th & Douglas Disbrow, M. A. & Co., 1201 Nicholas Gulou & Ledwich, 1024 N 18th Hampton Lumber Co., 1242 S 16th Hoagland, G. A., c 9th & Douglass Hull, O. W. Co., Izard, c 20th Neb. Coal & Lime Co., 109 S 15th Wagner & Buchanan, 23d & Paul
SOUTH OMAHA—Bradford-Kennedy Co. Bradford, Louis Lumber Co. Howland, E. H. Lumber & Coal Co. Munshaw, Ed. & Co. Watkins, J. B. & Co.
TEKAMAH—Houston, E. C. & Co.

NEW HAMPSHIRE.

ASHLAND—Merrill, D. C.
BERLIN—Rowell, H. C.
BRISTOL—Merrill, C. N. & Son
CLAREMONT—Boynton & Ellis Osgood, E. B.
CONCORD—Dickerman & Co. Woodworth & Co.
EXETER—Dow, A. N. Smith, L. B. & Son
FRANKLIN—Stevens, C. P.
KEENE—Knowlton & Stone Spencer Hardware Co.
LACONIA—Guay & Wallace Smith, John P. Co.
LANCASTER—Moore, L. F. (Heirs of) Smith, Frank & Co.
LISBON—Parker & Young Co.
MANCHESTER—Head & Dowst Co. Merrill, Clarence R. Parker, Henry W.

MEREDITH—Bartlett & Smith
MILFORD—Kittredge, Edward G.
Winslow, W. L.
NASHUA—Willard, George A.
NEWPORT—Rowell, F. P.
NORTH CONWAY—Gibson, J. L.
PENACOOK—Rolfe, C. M. & A. W.
PORTSMOUTH—Broughton, J. H.
Walker, C. E. & Co.
TROY—Kimball, E. P. & Son

NEW JERSEY.

ASBURY PARK—Buchanan & Smock Lbr.
Consumers' Coal & Supply Co. Co.
De Cou, W. E. & Son
Farmer, Geo. P. Coal & Supply Co., 51 S
Lewis, Charles, Main n B'way Main
Manasquan Gravel Co.
Palmateer Bros.
ATLANTIC CITY—Borton Coal & Trading Co.
Smith, Edwin, 1211 Arctic av
BASKING RIDGE—Conklin Lumber Co.
BAYONNE—Booth, A. W. & Bro.
Brady's, James, Sons Co.
BEVERLY—Perkins, A. T.
BLOOMFIELD—Bloomfield Coal & Supply Co.
Ogden & Cadmus
TAYLOR, JAS. L. MFG. CO. (Steel
Staging & Shingling Brackets, Shingle
Holders, Scaffold Irons). (See adv. in-
dex, end of book)
BOONTON—Boonton Lumber Co.
Salmon, Henry & Son
BORDENTOWN—Chamberlain, John G.
Shreve, W. A. & Co.
BOUNDBROOK—Cook, L. D. & Co.
BURLINGTON—Riggs, Edw., Jr.
CAMDEN—Camden Lime Co., 127 Federal
Justice Coal & Lime Co., 206 Market
Kilpatrick, Samuel A., Federal ab 12th
Reeve, Aug., 31 Market
Taylor Bros., c Front & Market
CRANFORD—Rindell, R.
DOVER—Birch, Foster F.
Dover Lumber Co.
EAST ORANGE—Cook & Genung Co.
Pierson, James T. & Co., 89 Dodd
EDGEWATER—Hinner's, E. H. Sons
ELIZABETH—Enterprise Coal & Supply Co.
Hall & Carlton
Mulford Coal & Lumber Co.
Neureiter & Horre, 336 E Jersey
Sayre, T. F. & H. C.
Smith Lime Flour Co.
Thompson, J. & S. S.
ENGLEWOOD—Payson, George H.
Tuttle Bros.
FAR HILLS—Dumont, David
FREEHOLD—Statsir Lumber Co.
GLADSTONE—Tiger, Ellis Co.
GLASSBORO—Shute, A. E.
GLOUCESTER CITY—Stinson & Dickinsheets
HACKENSACK—Gardner, I. E.
Hackensack Coal & Lumber Co.
HADDONFIELD—Bell Bros.
HAMMONTON—Beinhouse, William H.
HARRISON—Harper Brick Co.
HOBOKEN—Birch, Thos. E.
Kortlang, Hy., 556 Ferry
Vanderbilt, Harry H.
JAMESBURG—Perrine & Buckelew Co.
JERSEY CITY—Appleby, J. Charles
Baldwin Lumber Co., Garfield av
Conlon, Edw. W.
Hall, James P., 388 Central av.
O'Neill, Chas. H. (Est. of)
Union Stone Co., 256 Brunswick
Van Keuren & Son, Grand & Prior
Washburn Bros. Co., ft Jersey av, South
KEARNY—(See Arlington) Store Cove
KENNIL—Kenvil Lumber & Store Co.
LAKEWOOD—Lakewood Supply Co.
Larabee, Alfred S.
Loomis, A. J. Co.
LAMBERTVILLE—Massey, Geo. W.
LITTLE FERRY—Brewster & Son
LONG BRANCH—Chandler & Maps
Edwards Lumber & Coal Co.
MADISON—Brnen & Morris
Green & Pierson
Smith, Joseph M. Co.
MANASQUAN—Vanleer, E. S.
MATAWAN—Cartan & Delvin
MERCHANTVILLE—Collins & Pancoast
METUCHEN—Edgar, Chas. S.
Freeman, Manning & Son
MILLVILLE—Cory, Charles F.
Kimball, Prince & Co.
MONTCLAIR—Persons, W. O.
MORRISTOWN—Ennis, C. W. & Co.
MOUNT HOLLY—Dubell, Furman
NEWARK—Rowden, Fred'k
Cook & Genung Co., 16 & 18 Jersey
Newark Lime & Cement Co., ft Bridge

Ogden, Henry E & Son Co., 428 Clin-
ton av.
Phillips White Rock Lime Co. (Lime), 125
Reeve, Abner S. & Sons, 88 Front Front
Rolfe, Jno. H.
Sayre, James R., Jr., & Co., River n Centre
St. Depot
Sayre, Marcus Co., Wharf adj. Centre st.
Bridge
Schoonmaker, W., Verona av & Erie R. R.
Tomkins Bros., 74 Passaic
Windsor Lime Co., Centre st. wharf
Wolf, Stewart & Co., Waverly av c Peshine
Woodward, A. H. & Co., 110 Passaic
NEW BRUNSWICK—Rolfe, Building Material
Co.
Weigel, Philip, Jr., 2 Peace
NEWTON—Losee, F. E.
OCEAN CITY—Shoemaker, C. H. Lumber Co.
Conover, John C.
ORANGE—Conover Bros., 51 Lincoln av
Matthews, A. M. & Co., 68 Freeman
PASSAIC—Anderson Lumber Co.
Campbell, Morrell & Co.
Union Building & Cons. Co.
PATERSON—Agnew, John Co. (Est of)
Brogan, T. J. Co., St. aight & Peach
Gohle, Martin, R. R. av c Ward
Kelley, C., R av c Green
Sharpe, Jos. Construction Co., 18th n Van
Smith, A. H. Houten
Stiles, E. M., 223 Ellison
Trimble Co.
PENN GROVE—Barber & Turner
PERTH AMBOY—Donnell, W. J.
Langan, Thomas Lumber Co.
Robbins, I. R.
PLAINFIELD—Boice, Runyon & Co., 242 Park
av
Loizeaux, Joshua D. & Co., 640 North av
PLEASANTVILLE—Lake & Risley Co.
PRINCETON—Beekman, J. V. D.
McCarthy & Sons
RAHWAY—Ayres, Ira C.
Friese, G. M.
RIDGEFIELD—Heisenbottle & Herrschaft
RIDGEFIELD PARK—Brewster & Son
RIVER EDGE—Robert, A. Z.
RIVERSIDE—Zurbrugg, August
RIVERTON—Thomas Bros.
ROCKAWAY—Stickle, B. K. & G. W.
ROSELLE—Bachman-Veghte Co.
RUTHERFORD—Galloway, Edwin T.
SALEM—Lippincott, Clement G.
SOMERVILLE—Sargeant Bros
Smith-Schoonmaker Co.
SOUTH ORANGE—Halsey, H. B. Co.
SOUTH RIVER—Clayton, N. W.
STANWICK—Rogers, J. S. Co.
SUMMITT—Muchmore, George V.
Stephens Bros.
SWEDSBORO—McCullough, W. H.
TENAFLY—Demorest, Edward
TOMS RIVER—Brandt, A. A.
TOWN OF UNION—(See Weehawken)
TRENTON—Crozer & Stevens, 309 S Stockton
Heath, Samuel Co.
Hunt, James R. Mfg. Co., Richey bldg
New Jersey Elastic Pulp Plaster Co.
Richardson, Jos. B. & Sons
Richardson, P. B., 111 E State
Rickey, A. H. & Co.
VINELAND—Kimball & Prince Lumber Co.
ton av
WASHINGTON—Alleger's, E. W. Son
Gulick, Walter D.
WEHAWKEN—Berger, Edw. W. & Bro.
WESTFIELD—Irving J. S. Co.
Tuttle Bros.
WEST HOBOKEN—Keynton, Thos., 201 Clin-
ton av
WESTVILLE—Patterson, Z. & Son ton av

NEW MEXICO.

ALBUQUERQUE—Baldridge, J. C.
SANTA FE—Dudrew, C. W.
Hersch, Leo

NEW YORK.

ADAMS CENTER—Maxson, E. C.
ALBANY—Batchelder, R. C., 774 B'way
Blackburn, J. T. D.
Dwight, H. A., 117 Pier
Fuller, Howard N., Chapel c Sheridan
Halpin, Wm. P.
Helderberg Cement Co. (Cement Mfrs.), 78
Jackson, John H., 3d av ab Sloan State
Leonard & Co., 356 State
McCabe, Peter, 122 Pier
McClellan, Jno., 311 B'way, Rensselaer
ALBANY—Sands' Sons
ALBANY—Wilson & Eaton Co.
AMSTERDAM—Grieme, H. C. (Est. of)
ASTORIA—(See Long Island City, Borough of
ATHENS—Howland & Son Queens)

AUBURN—Barnes, D. W. & Son, 5 Wall
Clark Lumber Co.
McCarthy Bros.
BALDWINVILLE—Blanchard, J. F.
Tappan, W. H.
Voorhees, J. S., & Co.
BATAVIA—Dawson, William E.
BATH—Bowes, H. W. & Co.
BINGHAMTON—Ballard, J. W. Co., 21 Jarvis
Bartlett & Co., 37 Collier
Bloomer, E. F., 59 Collier
D. & H. Lime & Cement Co.
Ensign Lumber Co., Jarvis n Erie R. R.
BROADALBIN—Finch, W. W. & Co.
BROOKLYN—See New York City, Borough of
BUFFALO—Black, John H. (Mfrs' Agt.), Build-
ers' Exchge.
Carroll Bros.
Carroll, J. F.
Dehn, Charles (Gravel, Sand, etc.), Louisiana
Empire Limestone Co. (Gravel) & Perry
Fox & Hallway (Sand), 252 Pearl
King, J. B. & Co., 322 W Genesee
Lyth Tile Co.
Newman, H. L. & W. C., 141 Erie
Pfuhl, Louis & Son, 30 Ohio
Reeh, M. A., 599 Michigan
Ross, James H., 141 Erie
Thorn Cement Co., 23 W Swan
BURDETT—Smith, H. C.
BURNHAM—Payne, M. B.
CANANDAIGUA—Davidson, Alex.
Hollis, A. M. Co.
McNulty, F. X.
Thompson, George T.
CANASERAGA—Barnum, W. H.
CANISTEO—Brasted, P. O.
CARMEL—Palmer, B. S.
CARTHAGE—Jones & Simmons
CATSKILL—Holdridge, Geo. W. & Son
Raynor, A.
Timmerman, P. V. R.
CATTARAUGUS—Rich & Easton
CHATHAM—Boright, John W. Lumber Co.
CHAZY—Chazy Marble Lime Co.
CHESTER—Conklin & Roe
CLINTON—Allen, H. J.
CLYDE—Corrigan, Jos. G.
COHOES—Dooley, Jas. J.
Murray & Riberdy
Neary Bros. Cons. Co. (Contr's & Mason's
Slavin, Thomas S. Supplies)
COLLEGE POINT—(See New York City, Bor-
ough of Queens)
CORINTH—Mason, George H.
CORNING—Malthy, W. H. & Sons
CORNWALL LANDING—Taft-Howell Co.
CORTLAND—Beers & Wardfield
Maxon & Starin
CUTCHOGUE—Goldsmith & Tuthill
DELHI—Jackson, T. J.
DOLGEVILLE—Faville, W. H.
DUNKIRK—Madigan & Co.
DUTCHESS JUNCTION—Budd, W. D. Brick
EAST AURORA—Gelb, William H. Co.
Griggs & Ball
EAST HAMPTON—East Hampton Lumber &
EDEN—Redfield & Davis Coal Co.
ELLENVILLE—Bailey & Deyo
Cox Bros.
ELMIRA—Booth, Irving D.
Doane & Jones Lumber Co.
Elmira Sewer Pipe & Fire Brick Co., 161
R. R. av
Fisk, H. A. & Co., E Clinton & State
Harris, McHenry & Baker Co.
McKnight, Theo.
Spalding, H. C. Co.
Thurston & Haskell, 622 State
FAIRPORT—Holman, Geo. S.
Loomis, A. M.
FAYETTEVILLE—Bangs Cement & Plaster
Sheedy, Thomas W. Co.
FILLMORE—Brooks, William P.
FISHKILL LANDING—Aldridge, C. F.
FLORIDA—Roe Bros.
FLUSHING—(See New York City, Borough of
FORT PLAIN—Dieffendorf, W. J. Queens)
Williams & Tanner Co.
FREDONIA—Cobb, John P.
Cooke, F. E.
Sly & Coddington
FREEPORT—Foreman, C. M.
Ross & Randall
FULTON—Gage, W. G. & Co.
GAINESVILLE—Bristol, J. W. & Son
GENESE—Neff, N. W. & C. D.
GENEVA—Beard, J. H.
Dwyer, Frank
Rogers, R. J. Lumber Co.
Torrey Park Lumber Co.
GLEN COVE—Titus & Bowne
GLENS FALLS—Finch, Prayn & Co.
Glens Falls Portland Cement Co.
Sherman Lime Co.

GLOVERSVILLE—Holden Lumber Co.
 GOSHEN—Conklin & Cummins
 GOUVERNEUR—Corbin, W. S.
 Noble, H. H.
 GOWANDA—Van Deusen, J. E.
 GREEN ISLAND—Smith, M.
 GREENPORT—Corwin, C. L.
 HAVERSTRAW—Hedges, I. M. (Est. of)
 Lane, Charles R.
 HEMI'STEAD—McLean, John R.
 Mollineux Bros.
 HERKIMER—Palmer, C. W. & Co.
 Felton Bros.
 Sueli, C. R.
 HFWLETTE—Sprague, George T.
 HICKSVILLE—Augustine, Julius (estate)
 Herzog, F. & Son
 HIGHLAND FALLS—Muller Bros.
 HILLSDALE—Bullock & Herrington
 HOLLAND—Griggs, Ichabod N. & Son
 HOLLEY—Murphy, John
 HOMER—Maxon & Starin
 HOOSICK FALLS—Easton, Rising & Worden
 HORNELLS—Hollands, Stephen & Sons
 HUDSON—Benedict, R. B. & Son
 Macy, Charles W., 550 Union
 Traver, W. H. & Son
 HUNTINGTON—Wood, W. Wilton
 HURLEYVILLE—Prince Bros.
 ILION—Russell, A. N. & Sons Co.
 ITHACA—Driscoll Bros. & Co.
 Fowles, J., 10 Main
 Jamison-McKinny Co.
 JAMESTOWN—Sisson, Geo. W.
 KINGSTON—Gill, David, Jr.
 Griffiths, Frank H., 18 Hasb'k av
 LANCASTER—Garretsee, J. O.
 LARCHMONT—Larchmont Coal & Lumber Co.
 LAWRENCE—Wood, John A. & Son
 LE ROY—Helmlich, John
 Keeney, N. B. & Son
 Rogers, F. C.
 LESTERSHIRE—Baldwin, Edwin L.
 LIMA—O'Neill, Wm. A.
 LOCKPORT—Crowe, Michael J.
 Stainthorpe, C. N. & Co.
 Whitmore, Mrs. C. B. Co.
 LONG ISLAND CITY—(See New York City,
 Borough of Queens)
 LYONS—Lockwood, B. F.
 MACEDON—Servoss, Chas. J.
 MALONE—Murtaugh, P. J.
 Thompson, H. D. & Co.
 MAMARONECK—Brewer, R. G.
 Moffatt, L.
 MATTEAWAN—Davidson, S. M.
 MATTITUCK—Penny, George L.
 MECHANICSVILLE—Robinson, W. A.
 MERRICK—Smith, Thomas B.
 MIDDLE GRANVILLE—Rogers, A. N.
 MIDDLEPORT—Jackson, Thomas W. & Co.
 MIDDLETOWN—Ketchum, D. A.
 Le Fever Bros.
 Van Fleet, Wilbur
 MILLERTON—Beers & Trafford
 MONROE—Conklin, Geo. R.
 MONTGOMERY—Sears & Moore
 Vanderloef, John J.
 Wait, Charles D.
 MONTICELLO—Osborn & Son
 MOUNT KISCO—Young & Halstead Co.
 MOUNT VERNON—Burton & Fenton
 Wilson & Adams Co.
 NEWARK—Bartie, A. C. Lumber Co.
 NEW BRIGHTON—(See New York City, Bor-
 ough of Richmond)
 NEWBURGH—Harrison, John J. E., 488 B'way
 Wilson, Samuel A., 175 Wash'n
 NEW PALTZ—Lefevre, A. P.
 NEW ROCHELLE—Mahlstedt, J. A. Lumber &
 Coal Co.
 New Rochelle Coal & Lumber Co.

NEW YORK CITY.

Borough of Brooklyn.

(See also Cement Manufacturers)

BROOKLYN—Bannon, P. & Sons (Sand, etc.).
 129 Richards
 Bergen, Jno. H., 189 Montague
 Braun & Howe, 66 Huron
 Canda, M. M., 184 3d
 Candee & Kreckler, c 15th & Hamilton av &
 Castle Bros., Johnson pl 1217 Grand
 Clarke, Audley, 527 Smith
 Colyer, Jos. H. & Son, 11 Front
 Creamer, F. D. Co., ft 42d
 Duffy, J. P., Co., 51st & 2d av.
 Empire Brick & Supply Co., 125 25th
 Flatbush Building Material Co. (Brick,
 Lime, Cement, etc.), 1661 Flatbush av
 Geiser, Chas. J., Grand & Metropolitan av
 Hasenflug & Hellig, 357 Johnson av
 Mahnken, John H., 1107 Metropolitan av

Monahan, John F., 378 Flushing av
 Morton's, John Sons Co., 387 Carroll
 Sullivan, J. T., 2452 Fulton
 Wenz, Chas., 2434 Atlantic av

Boroughs of Manhattan & Bronx.

(See also Cement Manufacturers)

NEW YORK—ATLAS PORTLAND CE-
 ment Co. (Cement Mfrs.), 30 Broad. (See
 adv. index, end of book)
 Behrend, F. (Cement Importer), 54 Front
 Bell, John Co., E 138th & Girard
 Bloomer & Co., 290 Front
 Bowne, Thos. B. & Son, ft Main, West-
 chester
 Bronx Stone & Lumber Co.
 Brooks, A. J. H. Co. (Shell Lime), 644
 Cable, W. N., 277 B'way W 51st
 Candee, Smith & Howland Co., ft E 26th
 Contractors' Supply Co., Watson's la.,
 Westchester
 Darrow, Rufus & Son, ft W 47th
 Empire Brick & Supply Co., 103 Park av
FISKE & COMPANY, (Inc.), Flat
 Iron bldg. (See adv. index, end of book)
FLEMING & CO., 253 B'way. (See
 adv. index, end of book)
 Francklyn & Ferguson (Cement Importers),
 Cotton Ex. bldg
 Fredenburg & Lounsbury (Front & Ornamen-
 tal Brick & Cement), 289 4th av
 Gates, Church E. & Co., 138th & 4th av
 Goss & Edsall Co., 12th av. & 47th
 Heaney, P. J. & Co., West Farms rd & 176th
 Hoag, Wm. N., Co., 103 Park av
 Hookey, W. T., 3d av & 129th
 Jackson, Howard B. (Mfrs. Agt. for Brick,
 Cement, etc.), Flatiron bldg.
 Johnson, F'k R., 253 B'way
 Kane, John P. Co., 103 Park av
 McCandlish, R. N. Klnney Co., 1123 B'way
 Martin, Robert C. & Son, 156 5th av
 Masons' Supply Co., 254 South
 Material Supply Co., 415 E 99th
 Miller, Clifford L. & Co. (West Stockbridge
 Lime; Dry Mixed Mortar; Cement; Plas-
 ter, etc.), 110 E. 23d
 Moran, Thos. S., 100 William
 Morse, Frank E. Co., 17 State
 Mount Vernon Builders' Supply & Coal Co.,
 3rd av, Eastchester
 Murray & Reid Co. (Lime & Sand), 17
 Murtagh, Chas. E., ft Rivington State
 Murtha & Schmoll Co., 814 E 14th
 Noonan & Price Co., 15 E 137th
 Overbaugh-Camp Co., W 177th & Harlem
 River
 Palmer Lime & Cement Co., 149 B'way
 Peck, N. & W. J., ft E 48th
 Person & Co., 160 5th av
 Philbrick, John A. & Bro., ft E 97th
 Planet Cement Co., 1123 Broadway
 Raymond, G. B. (Clay Materials), 202nd
 & Webster av
SAYRE & FISHER CO. (Brick
 Mfrs.), 261 B'way. (See adv. first in-
 side cover)
 Sheldon, W. S. & Co., Rider av & E 141st
 Smith, Clarence L. Co., 30th & 11th av
 Sparrow, John E., 15 Whitehall
 Stortz, Valentine, 76 Pine
 Tomkins Bros. (Sewer Pipe), 256 B'way
 Tomkins, Calvin, 17 Battery pl
 Union Building Material Co., 3 Old B'way
 Warner, Chas. Co., 1 Madison av
 Wise, Nath'l, ft. E 79th
 Wood, Theo. C., 137th & Madison av

Borough of Queens.

COLLEGE POINT—Kraemer Bros. Co.
 Pearsall, Lewis
 JAMAICA—Styles, Thos.
 FLUSHING—Ryon, Augustus M.
 LONG ISLAND CITY—Boyce & Barnes Co.
 Clonin & Messenger
 Pfeffer, Jacob
 OCEANUS—Jamieson & Bond
 OZONE PARK—Reimer, Jno. B.
 RICHMOND HILL—Brown, Geo. A. W. & Co.
 Solms, Geo.

Borough of Richmond.

NEW BRIGHTON—Wood, John J.
 PRINCE BAY—Seguin-Runyon-Stiles Co.
 STAPLETON—Thompson, Jas. & Sons
 (End of New York City)
 NIAGARA FALLS—Humbert, Wm. S.
 NORTH TONAWANDA—Berger, H. U.
 Knapp-Cramer Hardware Co.
 Rose, H. A. (Est. of)
 NCNDA—Knappenberg, W. S.
 NYACK—Gregory & Sherman
 White, W. H. & Co.

OCEANUS—(See New York City, Borough of
 OGDENSBURG—Barr, John Queens)
 Britton, W. D.
 Hackett, P. Hardware Co.
 OLEAN—Taylor B. U. Co.
 ONEIDA—Marcellus, Geo. A.
 Ruby, R. E.
 ONEONTO—Briggs, N. H. & Son
 Butts, L. P.
 OSSINING—Terwilligers, I. Son
 OSWEGO—Farwell, J. B. & Co., ft. W Schuyler
 OWEGO—Farmers' & Builders' Supply Co.
 PALCHOGUE—Bailey, E. & Sons
 PEARL RIVER—Serven, W. A.
 PEEKSKILL—Dalus, N. Sons Co.
 PLEHMONT—Walsh & Relchiug
 PINE BUSH—McKinney, Henry L.
 PLATTSBURG—Purdy, Frank M.
 PLEASANTVILLE—Cornell Lumber Co.
 PORTCHESTER—Peck, W. E.
 Ryan, William Co.
 Tibbits, Charles H.
 PORT JEFFERSON—Fanning, O. T. & Co.
 Mather, John T.
 PORT JERVIS—Westbrook, Edw. S.
 PORT RICHMOND—(See New York City, Bor-
 ough of Richmond)
 PORT WASHINGTON—Copp, C. W.
 POTSDAM—Baldwin, H. K. & Co.
 Weed, F. A.
 POUGHKEEPSIE—Arnold, C. N. Co.
 Foster, D. C. & Sons
 Lumb, George W. & Son
 Lumb's, Levi Son
 Wilbur Co.
 PRINCE BAY—(See New York City, Borough of
 RANDOLPH—Felt & Almy Richmond)
 RHINEBECK—Herrick, T. J.
 RICHMONDVILLE—Harroway, M. W.
 RIPLEY—Crandall, J. E.
 RIVERHEAD—Corwin & Vail Lumber Co.
 Young, O. R.
 ROCHESTER—Hollister Concrete Block Co.
 Lamson & Leason, Cottage c Seward
 Mandery, J. J., 158 Scuth av
 Oliver, Thomas (Est. of), 328 South av
 Rochester Lime Co., 209 Main
 Whitmore, Rauber & Vicinus, 279 South av
 ROCKVILLE CENTER—Combs, G. D.
 Langdon, Jos. B., Est. of
 ROME—Wardwell Hardware Co.
 RONDOUT—(See Kingston)
 SACKETT HARBOR—Hovey, E. A.
 SAG HARBOR—East Hampton Lumber & Coal
 SALEM—Dillon, Jno. L. Co.
 SANDY HILL—Griffin Lumber Co.
 Kenyon Lumber Co.
 SARATOGA SPRINGS—Todd, E. R.
 SAUGERTIES—Saugerties Coal & Lumber Co.
 SCHNECTADY—Devenpeck, L. W.
 Rankin & Carey, 310 S Centre
 Rosa, N. W., 223 Dock
 Shear, A. & Co., 122 Wall
 Winne & McCall, Peek st
 SEA CLIFF—Parlman, Lawrence E.
 SENECA FALLS—Maler, Fred
 Palmer, S. S.
 SHERBURNE—Gaines, Thos. P.
 SIDNEY—Sidney Flour & Feed Co.
 SKANEATELES—Carver, Richard
 Stuart, William G.
 SOUTHAMPTON—Hampton Lumber Co.
 Havens, George L.
 STONY BROOK—Bayless, D. T. & Son
 SUSPENSION BRIDGE—Haehle Lumber Co.
 SYRACUSE—Artificial Paving Co., 1101 N
 State
 Britton, Israel E., 186 E. Brighton av
 Clarke, Geo. R., 541 S Clinton
 National Wall Plaster Co., O. C. S. Bank
 bldg
 Paragon Plaster Co. (Atlas Cement; also
 Lime, Brick, Plaster, etc.), 110 Warren
 Salisbury, D. J. & Ten Broeck, 206 St.
 Sullivan, C. J., 126 S Clinton Mark's av
 TARRYTOWN—Dinkel & Jewell Co.
 Husted, A. P.
 Odell's, Jacob Sons
 TICONDEROGA—Bascom, D. C.
 TOMPKINSVILLE—(See New York City, Bor-
 ough of Richmond)
 TONAWANDA—Barnes, Henry, 14 N Canal
 Collins, Cornellus
 TOTTENVILLE—(See New York City, Borough
 of Richmond)
 TROY—Crandell, Knight & Relehard, 385
 River
 Grimm, Max, 157 River
 Madden Lumber Co., 617 1st av
 Rickerson & Co.
 Smith, Milo, 527 River
 Troy Fireproofing Co.
 TRUMANSBURG—Hasard, Wm.
 TULLY—Garrison, J. E.

UTICA—American Hard Wall Plaster Co.
Conley, Frank E. Stone Co.
Corrigan, Jos. N., 201 Steuben
WALDEN—Dominick, D. C.
Hill, C. W.
WARRENSBURG—Emerson, A. C. & Co.
WARWICK—Conkling & Strong
WATERFORD—Slade, George D.
WATERLOO—Clark, Edwin
Terwillinger, A. H. & Son, Locust & Main
WATERTOWN—Cleveland & Ogsbury
Johnson, S. W.
Jones, W. C.
Roblin Lumber Co.
White & Sullivan
WATERVLIET—Andrews, H. F. & Co.
WATKINS—Durand, L. H., Son & Co.
WEST WINFIELD—Weeks, George S.
WHITEHALL—Sullivan, J. H.
Witherbee Cash Store
WHITE PLAINS—Young, R. Bros. Co.
WHITESTONE—(See New York City, Borough
of Queens)
WILLIAMS BRIDGE—(See New York City)
WOLCOTT—Northrup, G. H. Lumber Co.
YONKERS—Lawrence Bros.
Yonkers Builders' Supply Co.

NORTH CAROLINA.

ASHEVILLE—Scott Lumber Co.
Westall, W. H. & Co.
CHARLOTTE—Carolina Mfg. Co.
Ward, W. W. & Co.
Wearn, J. H. & Co.
Withers, B. F.
GREENSBORO—Odell Hardware Co.
Stone Building Supply Co.
HICKORY—Ingold, F. B.
LEXINGTON—Ward, E. M.
RALEIGH—Briggs, Thos. H. & Sons
N. C. Bldg. & Supply Co.
SALISBURY—Brown, J. Allen
McCubbins & Harrison
SANFORD—Sanford Sash & Blind Co.
SCOTLAND NECK—Biggs & Johnson
WILMINGTON—Jacobi, N. Hardware Co.
Moore's, Roger Sons & Co., 104 N Water
WINSTON SALEM—Brown-Rogers Co.
Fogle Bros. Co.
Miller Bros. Co.

NORTH DAKOTA.

BEACH—Kranick, Thos.
DICKINSON—Walton & Davis Co.
FARGO—Beidler & Robinson Lumber Co.
Birch, Stephen
Bowers Bros.
Chesley, James A.
GRAND FORKS—Dinnie Bros.
Pembina Portland Cement Co.
Robertson Lumber Co.
St. Hilaire Retail Lumber Co.
MINOT—Teutsch, Eugene
WAMPETON—Rischard, John

OHIO.

ADA—Ada Coal & Lumber Co.
AKRON—Akron Supply Co., 615 E Mill
Akron Paving & Plaster Co.
Akron Wall Plaster Co.
Botrum Bros., 213 N Main
Crisp, Geo. & Son, 500 E Mill
Haury, John G., 705 E B'way
Kryder, L. & Sons, 112 S Main
Meli & Salem
Peterson & Wright Co.
Pfarr & Hobart
ALLIANCE—Auld's, Jno., Sons
Tollerton, I. & Son
ANDOVER—Wood Bros.
ASHLAND—Ashland Hardware Co.
Boren, William
Palmer, B. H. & Sons
ASHTABULA—Dudley, W. E.
Robinson, M. C. & Co.
Sbrock, S. B.
BELLALIRE—Anderson & McGregor Co.
BELLEFONTAINE—Bellefontaine Stone & Lime
Co.
Buckeye Portland Cement Co.
BLUFFTON—Siddall, L. J.
BOND HILL—Perine, G. Artificial Stone Co.
BOWLING GREEN—Snowflake Lime Co.
Star Supply Co.
BRIDGEPORT—Meister Bros.
Sawyer Lumber Co.
BUCYRUS—Smith, J. M. & Fitzer
BURTON—Crittenden, H. W. & Son
CADIZ—Long, E. M. & Sons (Wholesale)
CAMBRIDGE—Cambridge Hardware Co.
Orme-McMahon-Thompson Co.
Probasco, J. N.

CANTON—Von Dorsten & Muckley
CAREY—Snyder, William H.
CARTHAGE—Wunker, H. & Son
CHILLICOTHE—Sterling Planing Mill & Lum-
ber Co.
Wissler Hardware Co.
CINCINNATI—Ohrispin, Jas. G. Lime & Ce-
ment Co., 826 Reedy
Cincinnati Builders' Supply Co., Opera House
Cincinnati Sewer Pipe Co., Norwood Bldg.
Conkling, H. J., 1127 Gilbert av.
Contractors' & Builders' Supply Co., 2849
Stanton av
Farrin, M. B. Lumber Co., Winton pl
Funke, John (Sand & Gravel)
Geis, Wm. H. & Co. (Thoms Bldg.)
Hall, T. J. & Co. (Washed River Sand &
Gravel)
Holley, C. E., Johnston bldg
Hurford & Purcell, Chamber of Commerce
Jacobs, Julius, 276 W McMicken av
McCammon, L. H. Bros., Johnston bldg
McClure, T. F. & Sons Co., Perin bldg
McCracken, J. E., Supply Co., 623 E Front
Metcalfe, L. A., 2133 Gilbert av
Moore-Coney Co., Union Trust bldg
Moss, C. W., 233 McCullough
Pachoud, A. L. & Co., 1037 Gilbert av
Patterson, Alex., 3036 W 6th
Raff, Allan Ross, Mitchell bldg
Taylor, Chas. E., 1429 Cutter
CIRCLEVILLE—McMullen, G. J. & Son
CLEVELAND—Cannell, Eli W., 4129 E 93d
S E
Cleveland Builders' Supply Co., Garfield bldg
Cleveland & Pittsburg Coal Co.
Diamond Portland Cement Co. (Cement
Mfrs.), Williamson bldg
Forrester Plaster Co., ft. East 49th
Gordon Sand & Gravel Co., Garfield bldg.
James, Ralph T., 5305 Euclid av
Kelley Island Lime & Transport Co., 11910
Euclid av
King Sand & Gravel Co., New England
Lake Shore Sand & Gravel Co., Bldg.
Lincoln Sand & Gravel Co., Wade Bldg.
Sandusky Portland Cement Co., Rocke-
Shepard, J. J., 1078 W 10th feller Bldg.
Stowe-Fuller Co., Superior bldg
CLEVES—Caine, Chas. W.
CLYDE—Hurd, T. P. & Sons
COLLEGE CORNER—Stewart, John H. &
Stewart, John H.
COLLINWOOD—Baldwin-Snell Co.
Collinwood Lumber Co.
COLUMBUS—Acme Paving Co., 405 W. State
American Sewer Pipe Co., 315 N High
Carlile, J. P., 450 W Broad
Columbus Builders' Supply Co.
Columbus Coal & Lime Co., 347 S High
Columbus Contractors' Supply Co., The Eng
gery
Columbus Macadam Co., 319 Dublin av
Ferris Steam Mortar Works, 626 Galloway av
Rapp, Jacob & Co., 375 S High
Rock Plaster Mfg. Co., W Broad & Hocking
Valley R. R.
South Side Lumber Co., 1927 S High
Wassell Fire Brick Co., Columbus, O.
CONNEAUT—Pond Lumber Co.
Welden & Babbitt
CORNING—Rodgers, D. M.
DAYTON—Dayton Builders' Supply Co.
Dayton Fibre Plaster Co., Shawnee st.
Eichelberger, T. D. & Son, 5th & Pearl
Hawthorn, W. S., 222 S William
Herr, E. H.
Keller & Co.
King, Chas. S., 1825 W 3d
McGreevy & Ortman
Rice, Wall Plaster Co., W Wash'n
Schaeffer & Gungnagel, 812 E 1st
Smart, A. F., 526 S Wayne av
Star Coal & Cement Co.
Whitmore, Wm. M., Foundry & Monument
DEFIANCE—Gorman, M. B., 500 Perry av
DELPHOS—Fisher, A. L.
EAST LIVERPOOL—Hall, Robert Lumber Co.
Milligan Hdw. & Supply Co.
Nease, C. & Co.
Old Roman Wall Plaster Co.
EAST PALESTINE—Meek & McClure
ELFORT—Morgan & Horton
ELMWOOD PLACE—Elberg, F. W.
ELYRIA—Elyria Lumber & Coal Co.
FAYETTE—Van Anken & Faber
FINDLAY—Morrison, P. B.
Tarbox & McCall
FOREST—Lindsay, Wm.
Young, J. W. & T. M.
FOSTORIA—Ohio & Western Lime Co.
FRANKLIN—Anderson's, L. G. Sons
FREMONT—Gotttron Bros.
GALION—Galion Lumber Co.
GALLIPOLIS—Rue, John C.
GLENDALE—Freyhof, John D.

HAMILTON—Bender Co.
Benninghofen, August
Smith, Jos. W.
Straub, F. J. & Co.
HARRISON—Perrine, Atwood
Vincent, W. C. & Son
HILLSBORO—Highland Lumber Co
Whisler, Chas. F.
HUBBARD—C. & C. Coal Co.
IRONTON—Ironton Lumber Co.
Ironton Portland Cement Co.
JACKSON—Buckeye Mill & Lumber Co.
KENT—Hall, P. B.
Hullett, George W.
KENTON—Callam, John & Co.
Robinson & Gage Lumber Co.
LANCASTER—Orman Bros. Lumber Co.
LIMA—Fidelity Coal & Supply Co.
Hull, Laurens Lumber Co.
Monlton, H. S.
LISBON—Armstrong, P. M. & Co.
LOCKLAND—Lockland Lumber Co.
LORAIN—Lorain Lumber & Mfg. Co.
Lorain Supply Co.
South Lorain Coal Co.
MADISONVILLE—Settle, O. H. W. & Co.
MANSFIELD—Barton & Willis
Branyon, M. L. & Bro.
Rusk Bros.
Voegel Bros.
MARIETTA—Becker Mill Co.
Crescent Supply Co.
MARION—Implement Mfg. Co.
Letler & Bland
Ohio Milling & Elevator Co.
Prendergast Co.
MARTINS FERTILY—Rothermund, Henry
MARYSVILLE—Robinson & Curry Co.
MASSILLON—Atwater, D. & Son
Clements, A. J.
Halter, Charles L.
Segner, E. C.
MEDINA—Wood Co.
MIDDLEFIELD—Patchin, O. P.
MIDDLETOWN—Hatfield Coal Co.
Ralston Coal Co.
MILFORD—Buckingham & Hair
Clark, J. N.
MOUNT GILEAD—Hickson, Joseph
Mount Gilead Lumber Co.
MOUNT VERNON—Sanderson & McCreary (Also
State)
NAPOLEON—Napoleon Pulp Plaster Co.
Thiesen & Hildred
NEWARK—Newark Lumber Co.
Norris, H. O.
Pratt-Kirk Co.
Smith, P. & Sons, Lumber Co.
NEW COMERSTOWN—Novelty Brick & Coal
Co.
NILES—Eaton, J. W.
Union Roofing & Supply Co.
OBERLIN—Cole, S. M.
OWENS—Owens, John D., & Son
PAULDING—Paulding Lumber Co.
PIQUA—Border City Coal Co.
Coffield, W. O.
Fiach Bros.
Morrow & Licklider
Piqua Coal & Iron Co.
Starier, D. C. Co.
Zollinger, S., Co.
PLYMOUTH—Nimmons & Nimmons
PORTSMOUTH—Gilson, J. B. (Est.)
Kaps Bros.
Leet, H., Lumber Co.
RAVENNA—Morgan, E. E.
Bennett, J. A.
ST. PARIS—Klizer & Long
SALEM—Campbell, C. C. & Son
Salem Hardware Co.
Salem Lumber Co.
Satterthwait, Wm. D.
SANDUSKY—Lake Erie Sand Co.
Sandusky Portland Cement Co.
Sandusky Sand Co.
Schoepfle Mfg. & Lumber Co.
SEBRING—Sebring Lumber Co.
SHELBY—Morris, W. H.
Wiggins, E. W.
Will & Myers
SIDNEY—Heiser, Jno.
SPRINGFIELD—Goode & Hayward
Honck Brick Co.
Jenkins & Ostot
Mills Bros., 107 S Limestone
Rawlins, A. M.
Springfield Coal & Ice Co., 83 S Limestone
STEVENSVILLE—Alexander, W. J.
McFeely Bros.
Ohio Plaster & Supply Co.
Ohio Valley Ice & Storage Co.
TIFFIN—Weot Bros. & Co.
TOLEDO—Acme Coal, Wood & Builders' Supply
Co.
Buckeye Builders' Supply Co.
Doherty & Co., The Splitzer

Holst, W. O., Builders' Supply Co.
Knopp Bros. Co.
Ohio Builders' Supply Co.
Ohio & Western Lumber Co.
Toledo Builders' Supply Co., Spitzer bldg
Woodville White Lime Co.
TORONTO—Milldollar, W. H.
TROY—Trojan Coal Co.
UNIRICHVILLE—Pearch, Jacob
Romig, P. A.
UPPER SANDUSKY—Gipson, W. A.
VAN WEIT—Rupright Bros.
WAPAKONETA—Snyder Mfg. Co.
WARREN—Cereal Supply Co.
Greenwood & Co.
Murray, Thos. R.
Western Reserve Lumber Co.
WASHINGTON C. H.—Coffman, H. G. & Co.
WAUSEON—Williams, H. H. & Co.
WELLSVILLE—Augenbaugh, H. C.
WEST LIBERTY—Feathers, George
WILLOUGHBY—Hill, A. T. & Co.
Jenkins, C. C.
WILMINGTON—Fisher Mfg. & Fuel Co.
WOOSTER—Gray & Son
XENIA—Thornhill Bros.
YOUNGSTOWN—Buehrle, German B.
Concrete Stone & Sand Co. (Sand & Concrete)
Kinder, L. & Co.
Mahoning Builders' Supply Co.
Mauser, Christ
Sharp Bros. Co.
Youngstown Ice Co.
ZANESVILLE—Adams Bros.
Harris Bros., 28 N 2d
Moorehead, Thos. L.
Moorehead, R.
Townsend, Wm. C. & Co., 7 Main

OKLAHOMA.

OKLAHOMA—Clark, R. J., Coal Co.
De Bolt, A. M.
Garrison, J. B. & Co.
Green, W. W.
STILLWATER—Bullam, H. P.

OREGON.

BAKER CITY—Stoddard Bros. Co.
EUGENE—Roney, L. N.
GRANTS PASS—Hair, Riddle Hdw. Co.
PORTLAND—Adamant Co.
Balfour, Guthrie & Co., Concord bldg
Beach, F. E. & Co., 135 1st
Capron, Albert J.
Crowe, F. T. & Co. (Complete Line), 252
Hennessy, J. D. & Co. Oak
Ireland & McMillan
McCracken, J. Co. (Cement, Lime, Plaster
& Builders' Specialties)
Nottingham & Co.
Oregon Lime & Plaster Co.
Rate, G. B. & Co., 184 Madison
Timms, Cress & Co.
Versteeg-Oor Brick Co.
Waterhouse & Price Co.
Western Storage & Transfer Co., 321 Haw-
SALEM—Burton, A. A. thorne av
Murphy, J. E.
THE DALLES—Glenn, Hugh & Co.
Wasco Warehouse Milling Co.

PENNSYLVANIA.

ALLEGHENY—Duncan & Porter Co., 310
Morgan
Knox, Stronss & Bragdon, Jnniata & Preble
Murray Bros., 318 Sandusky av.
Patterson Coal & Supply Co., 1222 Grant av
ALLENTOWN—Butz, Jas. F. & Co., Gordon
Kuder, Millard A., 330 Gordon c Jordan
Ochs, Milton, T. J.
ALTOONA—Altoona Concrete Construction &
Canan Building Supply Co. Supply Co.
Canan-Knox Supply Co., 18th & Margaret
Halton, John (Estate of)
Vipond, John S. Coal Co.
AMBLER—Craft, J. Watson
ARCHBALD—O'Boyle, F. J.
ARDMORE—Smedley & Mehl
ASHLAND—Buck, Peter E. & Sons
ATHENS—Macafee, Dana J.
Myer, C. M.
AVONDALE—Williamson, Frank & Co.
BANGOR—Bangor Lumber Mfg. Co.
Flouck, Edward J.
Wise Co., Lumber & Coal
BATH—Cressman, A. H.
BEAVER—Anderson & Cook
BEAVER FALLS—Brierly, Frank F. & Sons
Davidson, W. J.
Pearson & Son
Zimmerman, R. E.
BELLEFONTE—McCalmont & Co.
BERWYN—Fritz, W. H.

BETHLEHEM—Stahr, George F.
BLAIRSVILLE—Graff Coal Co.
Ray, L. S. W.
BLOOMSBURG—Paragon Plaster & Supply Co.
BLOSSBURG—Clark, Geo. D.
BLUE BELL—De Prefontaine, Chas.
BOSTON—Harper, C. M. C.
BRADDOCK—Braddock Hdw. & Supply Co.
Braddock Lumber Co.
Crown Wall Plaster Co.
Dowler, E. R.
Keller & Milliken
McCrary Bros. Co., Braddock, Pa.
Stockdale Supply Co.
BRADFORD—Fischer, L. A. & Co.
Robison, Winfred S.
Stout & Holden
BRIDGEPORT—March's, I. F. Sons
BRISTOL—Leedom, W. F.
Pierce, E. M.
BROOKVILLE—McKnight, Son & Co.
BROWNSVILLE—Wright's, T. S. Sons
BRYN MAWR—Supple, I. H. & Co.
BUTLER—Klinger, H. J. & Co.
Niggel, J. & Son
CAMBRIDGE SPRINGS—Bolard Bros.
CANONSBURG—Elliott, W. J.
Munnell, Samuel
CARBONDALE—Cavanagh, C.
Mills Bros.
CARLISLE—Bixler, J. P. & Sons
Goodyear Bros.
CARNEGIE—Foster, C. A.
CATASAUQUA—Deily, G. B. F.
Schneller, C. W.
CHAMBERSBURG—Coyle & Diehl
CHARLEROI—Monnster, R. C.
CHESTER—Bunting, D. S. Co.
Chester Lumber & Coal Co.
McDowell, W. J. & Bro.
Stevenson Co.
Wood, L. N. & Bro.
CHRISTIANA—Cooper, Mark P.
CLEARFIELD—Johnson, F. & Bro.
Standard Brick & Tile Co.
COATESVILLE—Lukens, Nathan
Pownall Hardware Co.
COLUMBIA—Columbia Brick Co.
Wilson, Hiram (Est. of)
CONNELLSVILLE—Fayette Lumber Co.
Standard Lime & Stone Co.
CONSHOHOCKEN—Beatty, Jas., Sr.
Jones, Wm. Potts
CORAOPOLIS—Watson, T. F. & Bro.
CORRY—Barlow Hardware Co.
CRAFTON—Crafton Builders' Supply Co.
DANVILLE—Cole, J. H.
Welliver Hardware Co.
DARBY—Thurston, Oscar
DEVON—Lobb, C. A. & Sons
DOYLESTOWN—Barrett, James
Beldler, Henry S.
Randall, W. H.
DUBOIS—DuBois, Jno. B.
Hibner-Hoover Hardware Co.
EASTON—Easton Lime Co.
Osterstock, J. S. & Co.
EAST STROUDSBURG—East Stroudsburg
EMAUS—Brown, Chas. D. Lumber Co.
Jarrett, H. W. & Son
EMLENTON—Sloan, U.
EMSWORTH—Little, John G.
ERIE—Erie Hard Wall Plaster Co., ft. of
McCarty, Dennis, 6th & Wayne French
Saltsman Coal & Supply Co.
Thayer, O. C. & Son, Chestnut & Railroad
ETNA—Pine Creek Supply Co.
Stevenson, Milford
EVANS CITY—Burry & Market
EVERETT—Cottage Planing Mill Co.
FERNWOOD—Hoopes, Rufus C.
FLEETWOOD—Schaeffer, Wanner & Co.
FRANKLIN—Howard Lumber & Coal Co.
King, George S.
GLENOLDEN—Mitchell, J. E.
GREENVILLE—Emery, H. H.
Livingston & Moyer
Packard Hdw. Co.
HAMBURG—Lenhart, I. S.
HANOVER—Schmuck Bros.
HARRISBURG—Gerlock & Lutz, 10th c Mul-
berry
Kelley, H. M. & Co.
Rhoads, C. H. & Co., c 7th & Briggs
Rhoads, J. E., Cowden c Forster
HARRISON VALLEY—Parks, J. M.
HAZLETON—Bright, J. C. & Co.
Frederick, S. Y.
Hazleton Machinery & Supply Co.
Schaub, Justus
Shaffer, Aaron
HOLLIDAYSBURG—Condron, J. B.
Law, John H.
Law, Joseph D.

HOMESTEAD—Hall, H. & Co.
HOOVERSVILLE—Myers, H. J. & W. A.
HUMMELSTOWN—Engle, Jno. S.
Holler, Chas.
HUNTINGDON—Miller, C. H. Hdw. Co.
INDIANA—Stewart, J. M. & Co.
IRWIN—Fox, L. C.
JEANNETTE—Sloan, W. S.
JOHNSTOWN—Cambria Concrete Construction
Johnstown Planing Mill Co. & Supply Co.
Thomas-Kinzey Lumber Co.
Walters, John W.
KINGSTON—Edwards & Co.
Roat, A. J.
KITTANNING—McConnell & Laker
McCullough, James, Jr.
KNOXVILLE—Fisk Supply Co.
KUTZTOWN—Heimer, Jas. S.
LANCASTER—Galbraith, Jefferson G.
Reilly Bros. & Raub, 40 N Queen
Seuer, G. & Son
Steinmann Hardware Co., 26 W King
LANDDALE—Brady, James
LANDSDOWNE—Levis, G. H.
LATROBE—Doherty, Phillip, Hardware &
McFeely Brick Co. Supply Co.
LEBANON—Granitine Wall Plaster Co.
Krause, George Hardware Co.
LEHIGHTON—Lehigh Coal & Hdw. Co.
LEWISBURG—Dreisbach's, C. Sons
Proctor, G. W. & Son
LEWISTOWN—Franciscus, F. G. (Est. of)
LINWOOD STATION—Wood, N. L. & Bros.
LOCK HAVEN—Candor, A. C. & Co.
McKEESPORT—Bowman Bros. Co., Inc.
Bowman & Wilson
Hartman Hdw. Co.
Patterson, Jas. E.
Serena, John & Co.
McKEES ROCKS—Yonng & Schmitt
MACUNGIE—Singmaster, J. & Co.
MAHANAY CITY—Ball, H.
MANSFIELD—Rose & McDowell
MAUCH CHUNK—Neast, Chas. & Co.
MEADVILLE—Harris, C. P.
Smith, L. F. Lumber Co.
Stolz, Charles
MECHANICSBURG—Martin, C. & Son
MEDIA—Williamson, C. F.
MERCER—Mercer Milling & Lumber Co.
Zahniser, M. C.
MIFFLIN—Manbeck & Nelson
MONONGAHELA—McCurdy, T. S. & Son
Yobe Bros.
MONROETON—Cranmer & Musselman
MONTROSE—Cooley & Son
MOORES—Moore, G. W. & Co.
MOSCOW—Loveland, J. E.
MOUNT PLEASANT—Husband Lumber Co.
Smith, W. H. & Son
Stevenson, J. A. & Co.
NEW BETHLEHEM—Anderson Hdw. Co.
Andrews', C. E. Lumber Co.
NEW BRIGHTON—Martsolf Bros. Co.
Martsolf, George W.
NEW CASTLE—Kline Lumber & Cons. Co.
Marshall Bros.
NEW FREEDOM—Bahn, Walter D. & Co.
NEW KENSINGTON—Klingensmith, H. A. &
McKeen, J. S. & Sons Son
NEWPORT—Jones, Alvin
NEWTOWN—Worstell Bros. & Co.
NORRISTOWN—Evans, B. & Bro.
Quillman, B.
Scheetz, R.
NORTH WALES—Leister, Jacob H. & Son
OGONTZ—Nagle, Louis A. & Co.
OIL CITY—Borland & Diamond Lumber Co.
Caldwell Lumber Co.
Kern & Co.
United Lumber & Coal Co. (Ltd.)
OLYPHANT—Lally, Jas. H.
OXFORD—Chandler, D. W. & Co.
Dickey, S. R. & Co.
PARKESBURG—Worrell, Jos.
PEN ARGYL—Correll, R. S.
Fitzgerald, Speer Co.
PENNLIN—Davis, L. Y.
PERRYOPOLIS—Herwick, A. C.
PETERSBURG—Stryker, Sam'l L.
PHILADELPHIA—Ambler H. C. Co. (Inc.),
3444 N 16th
American Cement Co. (Cement Mfrs.),
Penn. bldg
ATLAS PORTLAND CEMENT CO.
(Mfrs.), 114 N Broad. (See adv. in-
dex, end of book)
Bihlmaier, C. H. Co., 2706 Broad
Blair, Reed F. & Co. (Portland Ce-
ments, Fire & Silica Brick, etc.)
Frick bldg
Borgner Cement Co. (Distributors of
Lehigh Portland Cement), 234 N 23d
Bowditch, Walter, 205 E Haynes, Gtn.

Bradley, Walter T. Co., 9th, below Girard av
Budd & Co., 1021 Passy'k av
Clay Products Supply Co., Real Estate Trust bldg
Clymer, Jacob, c Marshall & Berks
Cox's, C. A. Sons, 2139 N American
Davis, Paul A., Jr., 136 N Water
Dobbs, S. B., Bailey bldg
Dougherty, Cornelius, 1207 Passyunk av
Ebert, Morris, 119 S 4th
Evans, Wm. & Son, 56 N Front
Fairlamb, P. H. & Co., 115 S 30th
Fitzgerald, John J. & Co., 14 S Broad
France, David Co., Tasker St. Wharf
Fredericks, Chas. C., Wayne av, c Reading Ry Gtn

FRENCH, SAMUEL H. & CO., York
av, 4th & Callowhill. (See adv. Index,
Gabel, W. T., 2405 Sedgley end of book)
Garrett, Jas. & Co., 1432 S Penn sq
Gilbert, Harry W., 9th c Venaugh
Hartranft, Wm. G. Cement Co., Real Estate Trust bldg

Housekeeper, Benj. (Lime), 1526 N American
Kerbaugh Lime Co., Wash'n av, c 15th
Keystone Plaster Co. (Adamant Wall Plaster), 16 S Broad
Knickerbocker Lime Co. (Inc.), 366 N 24th
Krause, Wm. & Sons (Inc.), 1621 N 5th
Kugler, Clarence B., Jr., & Co., Land Title bldg

Kyle, Geo., S. 73 c Grays av
Lesley & Trinkle Co., Penna bldg
Lukens & Yerkes, Commonwealth bldg
Lyster Supply Co., 30th & Spruce
McClellan, H. A. & Bro., 2539 S. 13th
Manayunk Coal & Lime Co., Manayunk
Martin, Hugh T., 1028 Cross
Meng, Anthony & Co., 109 S Front
Peoples Bros., 25th & Callowhill
Pretzman, Harry D., Land Title bldg
Robinson, Thos. & Co., Real Estate Trust bldg
Rutan, John W., Heed bldg
Sergeant, Jos. & A. Co., 617 S 20th
Sinn, Geo. A., 4430 Penn
Smith, Edwin A. Son (Lime), 1017 Frank-
Tyson, Jacob L., 900 Jeff ford av
Vollmer, P. S., 112 N Broad
Warner, Chas. Co. (Wholesale), Land Title
Williamson Frank 2202 Chestnut bldg

PHOENIXVILLE—Benjamin, N. H. Co.
PITTSBURG—Anderson, Jas. B., 6714 Hud-
son Pl

Birmingham Supply Co., S 17th & Muriel
Blair, Reed F. & Co. (Portland Cement,
Fire & Silica Brick, etc.), Frick bldg
Brown, Andrew J., 6414 Frankstown av
Davison, J. K. & Bro., 42d & Davison
Diehl's, Adam, Sons, 107 S 18th
Heppenstall & Marquis, 32d & Liberty av
Houston Bros. Co., 32d & P. R. R.
Jiles, Jas. Co., Liberty av & 38th st
Keller Bros., 6347 Station
Kennedy, D. J. & Co., 6366 Frankstown
Lane, Thos. Co., Lewis bldg av
Leggett Wm. T. & Co., 2621 Liberty av
McKallip & Co. (Full Line), 2835 Smallman.
McLain, E. S. & Son (Wyandotte Cement),
Fulton bldg
Miller, Mason & Co. (Ltd.), Fulton bldg
Miller & Coulson, Diamond Bank bldg
Munhall, R. J. Lumber Co., 2224 Sidney
National Mortar & Supply Co., 209 9th
Patterson Coal & Supply Co., 1222 Grant
av
Pittsburg-Buffalo Co. ("Edison" Cement,
etc.), Frick bldg
Pope Cement & Brick Co. (Alpha Cement
etc.), 421 Wood

Williams, W. H. & Co., 5th
Winfield Sand Co., 421 Wood

PITTSBURG—Dershimer & Griffen
Patterson, J. E. & Co.

PORTLAND—Miller, J. I.

POTTSTOWN—Bailey, M. W.

Fegely, J. & Son
Hallman, Wm.
Halteman, J. L.
Van Buskirk & Bro.

POTTSVILLE—Bright & Co.
Thompson, L. C.

PUNXSUTAWNEY—Brown Hardware Co.
Meredith, W. R.

ROBINSON—Hardware Co.
QUAKERTOWN—Aches, Benj.
Walp, C. H. & Bro.

READING—Ahrens, H. E. & Bro.
Bard Hardware Co.

Bright & Co., 504 Penn
Gring Bros., 6th & Canal
Miller, Daniel
Parker, W. H.
Reading Lumber Co.

Roth, A. L. Co., 45 S 7th
RIDGWAY—Hyde-Murphy Co.
Hyde, W. H. & Co.

ROCHESTER—Miller, Wm. & Sons (Inc.)

ROYERSFORD—Buckwalter, J. A.

SALTSBURG—Davis Bros. & Co.

SCRANTON—Benore, John

Empire Limestone Co. (Gravel)

Hunt, Alex. E.

Keller, Luther, 813 W Lack. av

Maloney Oil & Mfg. Co.

Mason & Snowdon Lumber Co.

Paragon Plaster & Supply Co., 1500 Albright av

Washburn, Williams & Co.

SEWICKLEY—Hays, Alden F.

SHARON—McIntyre, Wm., & Sons

Wallis & Carley

Wishart, A. & Son Co.

SLATINGTON—Dettmer & Handwerk

Fritzinger, William A.

SOMERSET—Fink, Peter

SOUDERTON—Hunsberger, S. D.

Moyer & Son

Souder & Crouthame!

SOUTH BETHLEHEM—Laufer, Milton

SOUTH SHARON—Anderson, W. T.

SPRING CITY—Davis & Mowrey

STEELTON—Couffer & Sultzeberger

Hess, John

SUNBURY—Sunbury Supply Co.

Whitmer, William & Sons Co.

SUSQUEHANNA—Millane, M.

SWARTHMORE—Ogden, C. G. & Co.

THURLOW—(See Chester)

TITUSVILLE—Edwards, H. B.

Hale, W. J.

Shank, I. L.

TOWANDA—Myer, Berlin F.

TROY—Snedeker & Mitchell

Spalding, H. M. & Son

TUNKHANNOCK—Billings, Paul & Co.

TYRONE—American Lime & Stone Co.

Beyer, F. D. & Co.

Franciscus Hardware Co.

Grazier Bros. & Stine

UNION CITY—Union Coal & Supply Co.

VANDERGRIFT—Hunger, Geo. A.

Kimmel, J. G.

WARREN—Pickett Hardware Co.

WASHINGTON—Hart, W. Brit.

Paul & Post

WAYNE—Connor, I. W. & Co.

WAYNESBORO—Gilbert & Gordon

Hess, Daniel W. Sons

Newcomer, J. M. & Co.

WEST CHESTER—Bennett & Lear

Hoopes, Ralston R.

Sharpless, S. E. Lumber Co.

WESTFIELD—Tremaln, G. H.

WEST GROVE—Chambers, S. K. & Bros.

WILKES-BARRE—Goff Lumber Co.

Morgan's, Charles Sons

National Supply Co.

Patterson, James E. & Co., 135 N Canal

Penna. Supply Co., 60 S Canal

Phelps, Lewis & Bennett Co.

Ritter, S. V.

Schmitt, John A. Sons

Wilke-Barr Masons' Supply Co.

WILLIAMSPORT—Brown, Clark & Howe

Diamond Wall Cement Co.

Kline & Co.

Stumpfle's, David Sons

YORK—Detwiler Sand Co.

Frey & Thomas

McClellan & Gotwalt Co.

Small, P. A. & S. Co.

Spangler, E. W., Jr.

York Valley Lime Co.

Zinn Bros.

RHODE ISLAND.

BRISTOL—Wardwell Lumber Co.

EAST PROVIDENCE—Halliday Bros.

NEWPORT—Hammet, A. & H. G., 321 Thames

PAWTUCKET—City Coal Co.

Cottrell, J. T. Co.

Newell Coal & Lumber Co.

Olney & Payne Bros.

PROVIDENCE—Goff, James C. Co., 31 Point

Harris, Wm. M., Jr., 546 Atwells

Horton, H. R. Co.

McKendall, F'k D., 519 Charles

Manchester & Hudson, 55 Point

Olneyville Hay & Grain Co., 45 Manton av

Whaley, J. A. & Co., 39 Smith

RIVER POINT—Potter, H. W. & Son

WAKEFIELD—Wakefield Lumber Co.

WESTERLY—Babcock & Wilcox

Kenyon, H. T. & Co.

Maxon & Co.

Segar, H. R. Co.

Sherman, Robert A. & Sons Co.

WOONSOCKET—City Lumber Co., River st

Woonsocket Lumber Co., 189 N Main

SOUTH CAROLINA.

ANDERSON—Anderson, O. D.

Brissey, W. L.

White & Co.

BEAUFORT—Christensen, N. & Son

CHARLESTON—Anderson Lumber Co.

(Brick, etc.), West Eng Broad

Bird, Wm. M. & Co., 205 E Bay

Carolina Portland Cement Co., 194 E Bay

Hughes, Thos., 82 Mary

Johnson, Wm. & Co., E End Lawrens

Southeastern Lime & Cement Co

COLUMBIA—Brown, C. O. & Bro.

Lorick & Lawrence.

GAFFNEY—Builders' Supply Co.

Carroll & Co.

GREENVILLE—Gower Supply Co.

GREENWOOD—Simmons, J. T.

NEWBERRY—Pool, T. C.

SPARTANBURG—Ezell, S. B.

SUMTER—Harby & Co.

SOUTH DAKOTA.

CHAMBERLAIN—Anderson, J. F., Lum-

MITCHELL—Davis & Daniels Co. ber Co.

SIOUX FALLS—Sioux Falls Lumber Co.

Ross, H. W. Lumber Co.

Tutbill, J. W. Lumber Co.

WATERTOWN—Stover Construction Co.

Watertown Cement Products Co.

YANKTON—Loonan Lumber Co.

Western Portland Cement Co.

TENNESSEE.

BRISTOL—Adams Bros. Co. (Inc.)

Mitchell, Powers Hardware Co.

Morton, Lewis & Willey Lumber Co.

CHATTANOOGA—Buquo Lime Co.

Gager Lime & Mfg. Co., 203 Carter

Howard Hydraulic Cement Co., 10 W 8th

Howard Park Brck Co.

Magill Hdw. Co., 729 Market

Wilson, T. T., 1033 Market

CLARKSVILLE—Hurst, Bollin & Co.

HARRIMAN—Dame Mantel Co.

JACKSON—City Lumber Co.

Gardner, O. G. Lumber

JOHNSON CITY—Martin, Jas. A.

KNOXVILLE—Chandler & Co.

Sanford, Chamberlain & Albers Co.

Sullins Coal & Coke Co.

Tenn. Lime & Sand Co.

MEMPHIS—Cubbins Lime & Cement Co.,
442 Decatur

Denle, J. A. Sons, 82 S Front

Kavanaugh Sand Co., Tenn Trust bldg

Wright Lime & Cement Co., 90 S Third

MORRISTOWN—Baylor, C. E. & Co. st

MURFREESBORO—Earthman, W. B. & Co.

Williams Bros.

NASHVILLE—Cohn & Goldberg

Hardison, W. T. & Co., 111 S. First

Hoover & Co., 810 Fourth av N

Love, Boyd & Co., ft of S 2d

Nashville Builders' Supply Co., 200 First

Norvell & Wallace, 609 Broadway st N

Ransom, J. B. & Co., 19th av & Clinton st

TULLAHOMA—Lawson, T. D.

TEXAS.

ALBANY—Rockwell Bros. & Co.

AUSTIN—Austin White Lime Co.

Tips, Walter

RASTROP—Wilbarger, J. L. & Co.

BEAUMONT—Texas Bldrs' Supply Co.

Wilson, E. L. Hdw. Co.

BEVERLY—Kohler & Haldenfels

CISCO—Burton-Lingo Co.

CLERBURN—Burton-Lingo Co.

Wilson, H. S.

COLORADO—Burton-Lingo Co.

Roe, A. J.

CORPUS CHRISTI—Sibbury Lumber Co.

CORSICANA—Whitselle Brick & Lumber Co.

DALLAS—Griffiths, T. W. & Co., 103 N Lamar

Moore & Co.

DENISON—Hanna Bros.

Lingo-Leeper Lumber Co.

DENTON—Wilson, J. B. & Co.

EL PASO—Bassett, O. T. & Co.

Courchesne, A.

El Paso Lumber Co.

Sante Fe Fuel Co.

FORT WORTH—Armstrong, J. H. & Co.

Burton-Lingo Co. (Ltd.)

Cameron, Wm. & Co.

Darnell Lbr. Co.

Nash Hardware Co.

Owens, G. W. Lumber Co.

Roe, A. J.

Smith, Cicero Lbr. Co.

Waples-Painter Co.

GALVESTON—Fowler & McVitie, Cotton Exchange bldg
 Parr, Wm. & Co., 2108 Strand
GROESBECK—Walker, S. S. & Son
HALLETSVILLE—Hill, T. A. & Son
HILLSBORO—Lyon, O. T. & Son
HOUSTON—Barthold & Casey
 Browne Bldrs' Supply Co.
 Heitmann, F. W. & Co.
 Macatee, W. L. & Sons
 Street & Graves
KERRVILLE—Schreiner, Chas. Co.
LAREDO—Deutz, A. & Bros.
 Johnson, S. N.
 Johnson & Yaeger
LLANO—Llano Lumber Co.
LULING—Luling Lumber Co.
NAVASOTA—Youens, J. & Co.
ORANGE—Lutcher & Moore Lumber Co
 Miller, Link Lumber Co.
 Sabine Supply Co.
PALESTINE—Broyles, W. & G. D.
PARIS—Bettes, H. S. Hdw. Co.
SAN ANTONIO—Alamo Cement Co.
 Dielman, Jno. C.
SCHULENBURG—Schaefer, H. B.
SHERMAN—Felder, A. A.
 Lyon, O. T. & Son
SWEET WATER—Wilkerson, O. L.
TEMPLE—Campbell, C. M. & Sons
 Hollingsworth, Joseph
TERRELL—Muckleroy & Dew
TEXARKANA—Chatfield & Buhrman Hardware Co.
 Hoffman Hdw. Co.
 Stevens, A. M.
VICTORIA—Bailey Mills Co.
 Goldman, A.
 Levi, A. & Co.
WACO—Brazelton-Pryor & Co.
 Cameron, William & Co.
 Nash, Robinson & Co., 908 Austin av
 Strauss, El.
WILLS POINT—Matthews, N. A. Lumber Co.

UTAH.

OGDEN—Eccles Lumber Co.
 Lowe, Geo. A. & Co.
SALT LAKE CITY—Holman, Payne & Co.
 Langton Lime & Cement Co., 341 S State
 Morris, Elias & Sons Co.
 Morrison, Merrill & Co., 241 N 3d, W
 Portland Cement Co. of Utah (Cement
 Mfrs.), 8th S & 5th W
SPANISH FORK—Jex Lumber Co.

VERMONT.

BELLOWS FALLS—Bellows Falls Pulp Plaster Co.
BENNINGTON—Loring, J. H. & Co., 113 Depot
BRATTLEBORO—Meilen, J. Edgar
 Robbins & Cowles
BURLINGTON—Burlington Grocery Co.
FAIR HAVEN—Reed Coal Co.
MIDDLEBURY—Chapman, T. M. & Co.
MONTPELIER—Hyde, E. D.
NEWPORT—MacDiarmid & Co.
NORTH BENNINGTON—Hawks, A. W.
POULTNEY—Bixby, E. M. & Son
 Ripley Lbr. Co.
 Sherman, S. & Son
RANDOLPH—Lamson, J. H. & Sons
 Tewksbury, E. W. & Co.
RUTLAND—Burditt Bros.
 Curtis, S. P. & Son
 Landon, Walter C. & Co.
ST. ALBANS—Bostwick Bros.
 Fonda, W. B.
ST. JOHNSBURY—Caldbeck, M. J. & Son
 Ide, E. T. & H. K.

VIRGINIA.

ALEXANDRIA—Burrough, Thos. F., Son & Co
 Robinson, Geo. H. Sons
 Smoot, W. A. & Son
 Smoot & Co.
BERKLEY—Cuthrell, John
BERRYVILLE—Baker, H. W.
 Phillips, Wm. Bros.
CHARLOTTESVILLE—Wood, Vest & Co.
CHASE CITY—Robert, B. A. & Son
DANVILLE—Fitzgerald, N. A. & T. J.
 Swanson Bros. & Co.
FREDERICKSBURG—Cole, E. D.
HAMPTON—Born, L.
 Hefflinger Co.
 Hudgins Bros.
HARRISONBURG—Snell, J. M. G. Co. (Inc.)
LYNCHBURG—Adams Bros. Payne's Co.
 Hutter, C. S.
 Williams & Barnett Co.

NEWPORT NEWS—Benson, Phillips & Co.
 Poarch & So.
 Richardson, Robt. E., Va. av & 31st
 Weaver Bros., Warwick av
NORFOLK—Batchelder & Collins, 145 Water
 Bayne, C. M. & Co.
 Builders' Supply Co.
 Gamage, J. W. & Co. (Domestic & Imported
 Cements, Brick, Lime, etc.)
 Gamage, Jno. O., Woodside's Wharf
 Grinnan, John C., 227 Monticello av.
 Jones & Co.
 Nottingham & Wrenn Co., 2 Monticello av.
PETERSBURG—Friend & Co.
 Marks, L. L. Lumber & Supply Co.
PHOEBUS—Tennis, Edgar M.
PORTSMOUTH—Corprew, Anthony A.
 Hawks-Maupin Co.
 Lindsay, John B., 803 Crawford
 Lindsay & Co.
 Oast, Samuel P., 1101 Court
RICHMOND—Baldwin & Brown, 1557 E Main
 Hawes, S. H. & Co., 1801 E Cary
 Lee, A. S. & Son, 108 S 13th
 Moore Lime Co., Dock & 17th
 Moore, Warner & Co., 17th & Dock
 Sitterding-Carneal-Davis Co.
ROANOKE—Adams, Payne & Gleaves
 Central Mfg. Co., Shenandoah av c 2d, N W
 Exchange Lumber Co., 15 2d, S W
 Wilkinson, J. H., 102 3d, S W
SOUTH BOSTON—Lawson, R. W. & Co.
STAUNTON—Clem Bros.
SUFFOLK—Allen, R. R.
 Folk, E. L. & Co.
 Shoop, Withers Co.
WARRENTON—Wood, D. P. & Co.
WINCHESTER—Johnson, Davis

WASHINGTON.

BELLINGHAM—Morse Hardware Co.
SEATTLE—Atlas Lumber & Shingle Co.,
 Calne, E. E., 608 1st Alaska bldg
 Carstens & Earles, Lowman bldg
 Crowe, F. T. & Co. (Complete Line), Globe
 Dally, S. W. R., Colman bldg bldg
 Fryer, David E. & Co.
 Galbraith, Bacon & Co., ft Madison
 Hill Brick Co.
 McMullen, J. S. & Co., Ewing c Fremont av
 Newell Milling & Mfg. Co., Bradford e 7th
 Seattle Sand & Gravel Co. av So S
 Washington Brick & Tile Co.
SPOKANE—Crowe, F. T. & Co. (Complete
 Line)
 Dally, S. W. R.
 Idaho Lime Co., Division c N. P. R. R.
 Washington Brick, Lime & Mfg. Co., Wash'n
 & Pacific
TACOMA—Crowe, F. T. & Co. (Complete
 Line)
 Dally, S. W. R.
 Griffin Transfer Co.
 Tacoma Trading Co.
 Tacoma & Roche Harbor Lime Co., Equitable
 bldg
WALLA WALLA—Loney, Samuel & Co.
 Snell, Geo. H.

WEST VIRGINIA.

BLUEFIELD—Saxon Lime & Lbr. Co.
BUCKHANNON—Alton Lbr. Co.
 Builders' Supply Co.
 Drummond, T. B. Co.
CHARLESTON—Burlew, N. S.
 Courtney, D. G.
 Goshorn Hardware Co.
CHARLESTOWN—Phillips, Wm. Sons
CLARKSBURG—Williams & Davison Co.
FAIRMONT—Lilley, Geo. M.
 West Virginia Builders' Supply Co.
HUNTINGTON—Miller Supply Co.
 Mossman Bros.
HURRICANE—McCallister, Wm. H.
KEYSER—Liller, W. A.
 Steorts, H. G.
MORGANTOWN—Huston & Demain
 Morgantown Brick Co.
 Morgantown Planing Mill Co.
NEW CUMBERLAND—General Merchandise Co.
PARKERSBURG—Beckwith, Joel
 Lowther, M. R. & Co.
 Senseman, J. M. Lumber Co.
 Wilson, H. S. & Son
WHEELING—Chapman, W. H. & Sons, 1215
 Main
 Miller & Stein, 1315 Main
 Wilson, W. A. & Son, 1215 Main

WISCONSIN.

ANTIGO—Brehmer, A. F.
 Clements, David
APPLETON—Cotter, Jas. W.
 Marston Bros. Co.
ASHLAND—Ashland Lime, Salt & Cement Co.

BARABOO—Johnston, H. M. Lbr. Co.
BAYFIELD—Boutin, F.
BEAVER DAM—Roedl & Jacobs
BELOIT—Beloit Lumber Co.
 Keeler Lumber & Fuel Co.
BLACK EARTH—Michelson, A. A. & Co.
BLACK RIVER FALLS—Black River Falls
 Lbr. & Mercantile Assn.
BOSCOBEL—Ruka Bros. Mfg. Co.
BRANDON—Brown, H. L.
BURLINGTON—Wilbur Lumber Co.
CEDARBURG—Jochem, Wm. P.
CHIPPEWA FALLS—Clark Grain & Fuel Co.
 Coleman, H. B. (Ltd.)
 Theriault, J. B.
EAU CLAIRE—Evans-Lee Co.
 Lang Construction Co.
FOND DU LAC—Moore & Galloway Lumber Co.
FORT ATKINSON—Wilcox Lumber Co. (Ltd.)
 Zengner-Hoffman Lumber Co.
FOUNTAIN CITY—Roettiger, H. & F.
GRAND RAPIDS—Bossert Bros. & Co.
GREEN BAY—Barkhausen, Henry A.
 Flatley Bros. & Co.
 Mueller, Henry & Co.
 Murphy Lumber Co.
HARTFORD—Grimm, John A.
HAYWARD—North Wisconsin Lumber & Mfg.
HONEY CREEK—Wilbur Lumber Co. Co.
JANESVILLE—Fifield Bros. Lumber Co.
 Schaller & McKey Lumber Co.
 Shearer, James
JUNEAU—Sette & McCollow
KAUKAUNA—Kaukauna Lbr. & Mfg. Co.
 Lindauer, L.
KENOSHA—Burr, R. H.
LA CROSSE—Colman, C. L. Lumber Co.
 Hart, H. C. Implement Co.
 Johnson, W. W. Lumber Co.
 North Side Lumber Co.
 Sobkowiak, Frank
 Stroeh, Jos.
LAKE GENEVA—Durkee, F. M.
 Wilbur Lumber Co.
MADISON—Capitol City Fuel Co.
 Castle & Doyle
 Conklin & Son
 Cooley, C. F.
 Ratdke, W. J.
MANAWA—Little Wolf River Lumber Co
MANITOWOC—Johnson, J. G. Co.
 Manitowoc Building Supply Co.
 Manitowoc Clay Product Co.
 Manitowoc Land & Fuel Co.
MARINETTE—Hamilton & Merryman Co.
 Ludington, N. & Co.
 Ludtke, John C.
 Lyons Bros. & Co.
 Merryman, R. W. & Co.
MENASHA—Plummer, H. H.
MILTON—Saunders, T. A.
MILWAUKEE—Berthelet, H. Sewer Pipe Co.
 Bond & Sarnow Co., 33d & Vilet
 Burnham Brick & Supply Co.
 Chicago Brick & Supply Co., 204 Grand av
 Consolidated Cement & Supply Co.
 Hinners Lime Co.
 Illinois Leather Co. (Plastering Hair), 715
 Kuenzli, Henry & Co. Canal
 Lannon Lime & Stone Co.
 Lund, Geo., 336 S Water
 Mayer, Daniel, 469 3d
 Milwaukee Building Supply Co.
 Milwaukee Concrete & Supply Co.
 Milwaukee Falls Lime Co., Humboldt av &
 Commerce
 Milwaukee Sand & Gravel Co.
 Pipkorn, W. H. & Co., 417 11th av
 Reiske, Albert J.
 Ricketson & Schwarz (Brick, Terra Cotta,
 etc.), University bldg
 Silica Brick & Stone Co.
 Tews Bros.
 Waukesha Lime & Stone Co., 1211 Hum-
 boldt av.
 Western Lime & Cement Co., Pabst bldg
MONROE—Becker, Wm. A.
 Dodge Lumber Co.
OSHKOSH—Cook & Brown Lime Co.
 Gould Mfg. Co.
 Hollister, Amos & Co.
 Kusche, Edw.
 Radford Bros. Co.
PLYMOUTH—Kuster & Paasch
PORTAGE—Mohr, C. F.
RACINE—Fox Lime & Stone Co.
 Horlick Lime & Stone Co.
RHINELANDER—Brown Bros. Lumber Co.
 Queal, J. H. & Co.
 Robbins Lumber Co.
RICHLAND CENTER—Krouskop, A. H.
RIPON—Barnett & Anderson
 Horner & Middleton
SAUK CITY—Lachmund Lumber & Coal Co.
SEYMOUR—Miller & Piehl

SHEBOYGAN—Sheboygan Lime Works
SPRINGFIELD—Wilbur Lumber Co.
SUPERIOR—Dixon & Lowry
 Superior Mfg. Co.
TWO RIVERS—Geseli, John
WATERTOWN—Tetziaff, H.
WAUKESHA—Palmeter & Abell Lumber Co.
 Palmeter & Abell Lumber Co.
 Wilbur Lumber Co.
WAUSAU—Barker & Stewart Lumber Co.
 Curtis & Yale Co.
 Stewart, Alexander Lumber Co.
WESTFIELD—Cochrane, T. H. & Co.

WYOMING.

LARAMIE—Holliday, W. H. Co.

Mast Arms (Arc Lamp, Etc.)

Ajax Lime Material Co. ("Jumbo"), 12 South
 Jefferson, Chicago, Ill.
Brady, T. H., New Britain, Conn.
Buffalo Specialty Co. ("Duplex"), Buffalo,
 N. Y.
Creaghead Engineering Co., Cincinnati, O.
Cutter, Geo. W. Co. ("Cutter's"), South Bend,
 Ind.
Davis, M. & Sons, Salem, O.
Electric Railway Equipment Co., 1938 W 8th,
 Cincinnati, O.
Fort Wayne Electric Works, Fort Wayne, Ind.
Fletcher Mfg. Co., Dayton, O.
Lundin Electric & Machine Co., Boston, Mass.
Pettingell, Andrews Co. ("Philbrick"), Boston,
 Mass.
Philadelphia Electrical & Mfg. Co. ("Pemco,"
 Made from Pipe), 1232 N 31st, Phila., Pa.
Russell Elec. Mfg. Co., Providence, R. I.
Walls, C. W. & Co., Worcester, Mass.
Western Electric Co., 259 S Clinton, Chicago,
 Ill., & 57 Bethune, New York

***Masts & Spars**

BOSTON-OREGON MAST CO., 131 Cole-
 ridge, East Boston, Boston, Mass. (See
 adv. index, end of book)

Match Mfrs.

Budde & Westerman ("Triangle" Brand Im-
 porters Safety), 50 Vesey, New York
Cohen, Cassell & Son, 30 Greenwich av., New
 Consumers' Match Co., Passaic, N. J. York
Diamond Match Co., 56 Michigan av., Chi-
 cago, Ill.
Gelberg, Leopold (Wax), 46 Essex, New York
Huuter, John T., Evergreen, N. Y.
Illinois Match Co., Joliet, Ill.
Indiana Match Co., Crawfordsville, Ind.
Merkle-Wiley Broom Co., Paris, Ill.
Metropolitan Match Co., San Francisco, Cal.
Michigan Match Co., Detroit, Mich.
Ohio Match Co., Bellefonte, Pa.
Progress Match Co., 314 E. Houston, New
 Reliance Match Co., Ashland, Ohio York
Saginaw Match Co., Saginaw, Mich.
Sweden-American Match Co., 230 W. 4th, Cin-
 cinnati, Ohio
Union Match Co., Duluth, Minn.
Zan Bros. (Inc.), Portland, Ore.

Matchers

(See also Planers & Matchers)

American Wood Working Machine Co., Ro-
 chester, N. Y.
Bentel & Margedant Co., Hamilton, O.
Berlin Machine Works, Beloit, Wis.
Chase Turbine Mfg. Co. (Power Feed Matchers.
 with Glue Pot & Press), Orange, Mass.
Cordesman, Meyer & Co., Cincinnati, O.
Fay, J. A. & Egan Co., Cincinnati, O.
Indiana Machine Works Co., Ft. Wayne, Ind.
Lane Mfg. Co., Montpelier, Vt.
Smith, H. B., Machine Co., Smithville, N. J.
Woods, S. A. Machine Co., Boston, Mass.

Mats (Leather Rolling)

National Mat. & Belt Co. (for Cars, Elevators,
 Schools, Hospitals, etc.), Frankford, Phila.,
 Pa.
New York Leather Belting Co., 51 Beekman,
 New York (Hinged by Wire Rod)
Page Belting Co., Concord, N. H.

Mats (Rubber)

(See Mats & Matting, Rubber)

Mats (Steel Corrugated)

Toffler, S. Co. (Inc.) (Galvanized), 145th &
 So. Boul., New York

Mats (Steel Wire)

(See Mats & Matting, Steel Wire)

Mats (Stove)

Kensbey & Mattison Co. (Asbestos), Ambler, Pa.
Toffler, A. (Steel & Wooden), 725 1st av.,
 New York

Mats (Street Car)

(See also Other Mat Classifications)

Barney & Smith Car Co. (Wooden), Dayton,
 Ohio
CARY MFG. CO. ("Cary," Flexible
 Steel), 19 Roosevelt, New York. (See
 adv. index, end of book)
Eichman, Martin & Co. ("Lewis" Wooden,
 also for Hotels, Elevators, etc.), 256 Lor-
 mer, Brooklyn, N. Y.
National Mat & Belt Co. (Flexible Link,
 Rolling, Leather, Rubber or Steel), Frank-
 ford, Phila., Pa.
Toffler, S. Co. (Inc.) (Wooden Folding, etc.),
 145th & So. Boul., New York

Mats (Switchboard)

Consumers' Rubber Co. ("Euclid"), Cleveland,
 Ohio
Massachusetts Chemical Co., Walpole, Mass.

Mats (Wire Table)

Lloyd Mfg. Co., Minneapolis, Minn.

Mats (Wood Rolling)

(See also Mats, Street Car)

Toffler, S. Co. (Inc.), 145th & So. Boul., New
 York

Mats & Matting (Cocoa)

Darragh & Small (Calcutta & Domestle), 177
 Water, New York
East India Mfg. Co., Baltimore, Md.
Kempf, Geo. F. & Bro., 1027 N 4th, Phila., Pa.
McCabe, Benj., & Bro., 37 E. 18th, New York
Planet Mills Mfg Co. (Jute Matting), 335 Car-
 roll, Brooklyn, N. Y.
Rancocas Mills ("Diamond J. D."), Trenton,
 N. J.
State Penitentiary Jute Mill (Jute Matting),
 Walla Walla, Wash.
Western Penitentiary, Pittsburg, Pa.
Wild, Jos. & Co., 11 Thomas, New York

Mats & Matting (Rattan, Etc.)

Heywood Bros. & Wakefield Co., Gardner, Mass.

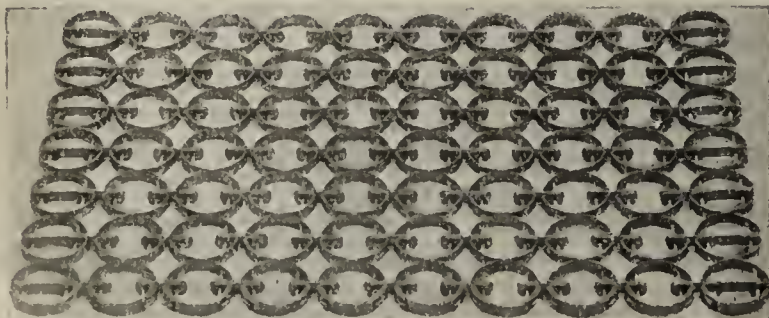
Mats & Matting (Rubber)

(See also Tile, Rubber)

Acme Rubber Mfg. Co., Trenton, N. J.
Ajax-Grieb Rubber Co., Trenton, N. J.
B. & R. Rubber Co., North Brookfield, Mass.
BOSTON BELTING CO., 260 Devon-
 shire, Boston, Mass., & 100 Reade, New
 York. (See adv. index & branch offices, end
 of book)
Boston Woven Hose & Rubber Co., Cambridge-
 port, Mass.
Consolidated Rubber Co., Trenton, N. J.
Crescent Belting & Packing Co., Trenton, N. J.
DIAMOND RUBBER CO., Akron, O. (See
 adv. index, end of book)
Empire Rubber Mfg. Co., Trenton, N. J.
Federal Rubber Co., Cudahy, Wis.
Goodrich, B. F., Co., Akron, O.
Gutta Percha Rubber Mfg. Co., 126 Duane,
 New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
Hartford Rubber Works Co., Hartford, Conn.
Home Rubber Co., Trenton, N. J.
International Rubber Co., Milltown, N. J.
Manhattan Rubber Mfg. Co., 18 Vesey, New
 York
Mechanical Rubber Co., 73 Reade, New York
Milford Rubber Works, Milford, Ill.
Morgan & Wright (Inc.), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
National Mat & Belt Co. (Rubber, Link &
 Corrugated Rubber Block), Frankford,
 Phila., Pa.
New Jersey Car Spring & Rubber Co., Jersey
 City, N. J.
New York Belting & Packing Co. (Ltd.), 91
 Chambers, New York
N. Y. Rubber Co. (Corrugated Matting), 84
 Reade, New York
PENNSYLVANIA RUBBER CO. (Cor-
 rugated, Cuspldor, Bath Tub, Perforated,
 Pebble, Pressed, etc.), Jeannette, Pa. (See
 adv. index & branch offices, end of book)
Peerless Rubber Mfg. Co., 16 Warren, New
 Republic Rubber Co., Youngstown, O. York
Revere Rubber Co., 77 Bedford, Boston, Mass.

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United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Waterbury Rubber Mfg. Co., 75 Warren, New York
Western Rubber Works (Door & Small Mats. Only), Goshen, Ind.

Mats & Matting (Steel)

ACME STEEL GOODS CO. ("Acme")
Flexible Reversible Steel Mats, 2834
Archer av., Chicago, Ill.; 147 Lafayette,
New York, & Empire Bldg., Atlanta, Ga.
(See adv. index, end of book)
Braun Mfg. Co., Pittsburg, Pa.
CARY MFG. CO. ("Cary," Everlasting
Flexible), 19 Roosevelt, New York. (See
adv. index, end of book)
Hamblin & Russell Mfg. Co. (Elastic Steel
Door Mats), Worcester, Mass.
Keystone Wire Matting Co., Beaver Falls, Pa.
Glen Mfg. Co. ("Hartman" Flexible), Ellwood
City, Pa.
National Mat & Belt Co. (Flexible Link Roll-
ing, Galvanized), Frankford, Phila., Pa.
Queen Mfg. Co., Webster City, Ia.
Sleeth Mfg. Co. (Flexible), Belleville, N. J.
SMITH, F. P. WIRE & IRON WORKS
(Flexible, Flat Steel), 100 Lake, Chicago,
Ill. (See adv. index end of book)

Mats & Matting (Steel Wire)

Buffalo Wire Works Co., 316 Terrace, Buffalo,
East, Ray B. & Co., Marshalltown, Ia. N. Y.
Glen Mfg. Co. ("Hartman" Flexible), Ellwood
City, Pa.
Keystone Wire Matting Co., Beaver Falls, Pa.
Lloyd Mfg. Co., Minneapolis, Minn.
Ludlow-Saylor Wire Co., St. Louis, Mo.
National Mat & Belt Co., Real Estate Trust
Bldg., Philadelphia, Pa.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago,
Ill.
Standard Wire Co. (Jonas Kaufman, Prop.), New
Castle, Pa.
U. S. Wire Mat Co., Decatur, Ill.
Williams, Geo. A., & Sons ("Keystone,"
Flexible), 85 Fulton, New York
Wire Goods Co. ("Elastic" Steel Door Mats),
Worcester, Mass.

Matting (Electric Floor)

Partrick, Carter & Wilkins Co., 22d & Wood,
Phila., Pa.
Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

Matting (Grass)

American Grass & Twine Co. ("Crex"), 377
B'way, New York
Oshkosh Grass Matting Co., Oshkosh, Wis.

Matting (Insulating)

(See Mats, Switchboard)

Matting (Street Car)

(See Mats, Street Car)

Mattocks

American Axe & Tool Co. (Adze Eye Pick,
etc.), Glassport, Pa., & 253 B'way, New
York
Anderson, W. H., Tool & Supply Co., 14 Ma-
comb, Detroit, Mich.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Colecluser Bros., El Dorado, Pa.
Collins Co., Collinsville, Conn.
Cronk & Carrier Mfg. Co. (Garden, etc.), El-
mira, N. Y.
Iron City Tool Works (Adze Eye), 32d & Small-
man, Pittsburg, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Mack & Co., Rochester, N. Y.
Oliver Steel & Iron Co. (Pick & Long & Short
Cutter), Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. (Adze, Eye,
etc., "Cheswick"), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Fkd. Phila., Pa.
Warwood Tool Co., Wheeling, W. Va.
Weston, Thos. B., Baltimore, Md.

Mattocks (Asphalt)

Anderson, W. H., Tool & Supply Co., 14 Ma-
comb, Detroit, Mich.
Klein-Logan Co. (Long & Short Cutter), S.
13th & Breed, Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.

Mattress Manufacturers' Sup- plies

Wayman & Wood Co., 1227 West Carson,
Pittsburg, Pa.

Mauls (Coal)

Beall Bros. (Inc.) (Long & Short), Alton, Ill.

Mauls (Post)

Barber Mfg. Co., Ashtabula, O.
Gowanda Agricultural Works, Gowanda, N. Y.
Lyon Iron Works, Greene, N. Y.
Munnsville Plow Co. (Also Stone Breaking),
Munnsville, N. Y.
Patten & Stafford Co., Canastota, N. Y.
Sovereign, C. E. Co. (Handled), Rockford, Ill.
Weller Hdw. & Foundry Co., Horseheads, N. Y.
Western Foundry & Sash Weight Co., 159
Miller, St. Louis, Mo.

Mauls (Railroad or Spike)

Anderson, W. H., Tool & Supply Co., 14 Ma-
comb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
Billings & Spencer Co., Hartford, Conn.
Beall Bros. (Inc.), Alton, Ill.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pitts-
burg, Pa.
Kalamazoo Railway Supply Co., Kalamazoo,
Mich.
Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.
Mack & Co., Rochester, N. Y.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Plumb, Fayette (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.
Vaughn & Bushnell Mfg. Co., 875 W Carroll av.,
Chicago, Ill.
Verona Tool Works, Murland bldg., Pittsburg,
Pa., & Verona, Pa.
Warwood Tool Co., Wheeling, W. Va.

Mauls (Rawhide)

Chicago Rawhide Mfg. Co., 75 E Oblo, Chicago,
Ill.

Mauls (Ship or Top)

Atha Tool Co., Newark, N. J.
Black, John B., Chester, Pa.
Collins Co., Collinsville, Conn.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Harvey, H. H., 608 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Klein-Logan Co. (Solid Cast Steel), S 13th,
Pittsburg, Pa.
Mack & Co., Rochester, N. Y.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Plumb, Fayette (Inc.), Frankford, Phila., Pa.
Vaughn & Bushnell Mfg. Co., 875 W Carroll av,
Chicago, Ill.
Verona Tool Wks., Murland bldg., Pittsburg,
Pa., & Verona, Pa.
White, L. & I. J. Co., 143 Perry, Buffalo, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.

Mauls (Woodchoppers')

Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Evansville Tool Works, Evansville, Ind.
Hammond, C. & Son, Ogontz, Pa.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Klein-Logan Co. (Solid Cast Steel), S 13th &
Breed, Pittsburg, Pa.
Lehr Agricultural Co., Fremont, O.
McINNES STEEL CO. (Ltd.), Corry,
Pa. (See adv. index, end of book)
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Swett, A. L. Iron Works (Cast Iron), Medina,
Warwood Tool Co., Wheeling, W. Va. N. Y.

Mauls (Wooden)

Doscher Plane & Tool Co. (Boltermakers &
Hickory, Iron Ring, etc.), Saugatuck, Conn.
Hellenberg & Son (Plumbers' & Well Drillers'),
Coldwater, Mich.
HILL & GRIFFITH CO. (Foundry), Cin-
cinnati, O. (See adv. index, end of book)
Pittsburg Shovel Co. (Hickory, with Heavy Iron
Rings), Frick bldg., Pittsburg, Pa. Works:
Leechburg, Pa.
Tatem, J. B. & Son (Heavy), Putnam, Conn.
Woodstock Hardwood & Spool Mfg. Co.,
Charleston, S. C.

*Mausoleum Doors & Gates

(See also Bronze Doors)

BOLLES, J. E. IRON & WIRE
Works, Detroit, Mich. (See adv. index,
end of book)
GORHAM CO. ARCH'L BRONZE,
5th av & 36th, New York; Works: Provi-
dence, R. I. (See adv. index, end of book)
STANDARD CO., Railway Exchange bldg.,
Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O. (See
adv. index & branch offices, end of book)
VULCAN CO. (Bronze & Iron), Detroit,
Mich. (See adv. index, end of book)

*Mausoleums (Granite & Marble)

(See also Granite Building Work Cutters &
Contractors; also Marble Exterior Work;
also Marble Interior Work)

PENNA. MARBLE & GRANITE CO.,
Penna. bldg., Phila., Pa. (See adv. in-
dex, end of book)

Meal (Polishing)

Peckham Mfg. Co., Newark, N. J.

*Measures (U. S. Standard)

WILSON, F. CORTEZ, & CO. (Tin, Copper
& Galvanized Iron), 239 Lake, Chicago, Ill.
(See adv. index, end of book)

Mechanical Draft

American Blower Co., Detroit, Mich.
Broomell, Schmidt & Steacy Co., Inc. (Induced
Draft Fans), York, Pa.
Buffalo Forge Co., Buffalo, N. Y.
Green Fuel Economizer Co., Matteawan, N.
Y., & 1218 West Street bldg., New York
Hartford Blower Co. (Forced & Induced), Hart-
ford, Conn.
Luce, Chas. T. Co. ("Kelly" System), 160
Congress, Boston, Mass.
McPberson, W. G. Co., Portland, Ore.
National Blower Works, Milwaukee, Wis.
New York Blower Co., 25th pl & Stewart av,
Chicago, Ill. Factory: Bucyrus, O.
Parson Mfg. Co. ("Parson" System), 320 B'way,
New York
Sturtevant, B. F. Co., Hyde Park, Mass.

Mechanical Engineers

(See Engineers (Civil, Mechanical & Mining))

*Mechanical Indicators for Elevators

ELEVATOR SUPPLY & REPAIR CO.,
76 W Monroe, Chicago, Ill.; 114 Liberty,
New York, & 593 Market, San Francisco,
Cal. (See adv. index, end of book)

MECHANICAL INDICATORS FOR

PASSENGER & FREIGHT ELEVATORS ELEVATOR SUPPLY & REPAIR CO.

114 LIBERTY ST. 76 W. MONROE ST.
NEW YORK CHICAGO
593 MARKET ST., SAN FRANCISCO, CAL.

***Mechanical Parts**

WORCESTER PRESSED STEEL CO.
Worcester, Mass. (See adv. index, end of book)

Mechanical Schools

(See Engineering Schools & Colleges)

Mechanical Stokers

(See also Furnaces, Smokeless)

American Ship Windlass Co. ("Taylor" Underfeed), Providence, R. I.
American Stoker Co. ("Automatic"), 11 B'way, New York Foundry, Erie, Pa.
Babcock & Wilcox Co., 85 Liberty, New York
Box, Alfred & Co., 813 N Front, Phila., Pa.
Brightman Furnace Co., 2570 B'way, Cleveland, Ohio
Barnett, Oscar, Foundry Co. ("Universal" Automatic Smokeless Traveling Chain Grate), Newark, N. J.
Casey-Hedges Co., Chattanooga, Tenn.
Crowe Stoker Co. ("Crowe" Pressed Steel Grate Bars), 47 Montgomery, Jersey City, N. J.
Detroit Stoker & Foundry Co., Detroit, Mich.
Duluth Stoker Co. (A. B. Wolvin, Pres.), Duluth, Minn.
Erie Foundry Co. ("Erie"), Erie, Pa.
Green Engineering Co. (Automatic Traveling Link Grate), Commercial Nat'l Bank bldg., Chicago, Ill.
Hamler Boiler & Tank Co. ("Little Giant"), 3906 S. Halsted, Chicago, Ill.
Harrisburg Foundry & Machine Works ("Ross"), Harrisburg, Pa.
Hawley Down Draft Furnace Co., Superior, Wis.
International Stoker Co., 181 La Salle, Chicago, Ill.
Lehigh Stoker Co., Fullerton, Pa.
Little Giant Stoker Co., 3906 S Halsted, Chicago, Ill.
Locomotive Stoker Co., 204 Dearborn, Chicago, Ill.
Model Stoker Co. ("Model" Automatic Smokeless), Dayton, Ohio
Murphy Iron Works, Detroit, Mich.
Ridgway Mfg. Co. ("Elliott"), Ridgway, Pa.
Rosedale Foundry & Machine Co. ("Playford" Chain Grate Stoker), Allegheny, Pa.
S. & S. Automatic Grate Co. (Automatic), 59 Indiana, Chicago, Ill.
Sarco Fuel Saving or Engineering Co., 90 West New York
Under Feed Stoker Co. of America ("Jones" Underfeed), 837 Marquette bldg. Chicago, Ill.
WESTINGHOUSE MACHINE CO.
("Roney"), Westinghouse Bldg., Pittsburg, Pa. (See adv. index, end of book)
Wilkinson Mfg. Co. ("Wilkinson" Automatic), Bridgeport, Pa.

***Medals**

AMERICAN RAILWAY SUPPLY CO., 26 Park Place, New York. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv. index, end of book)

Megaphone Mfrs.

Crane Bros., Westfield, Mass.
Miller, J. G. (Card-Board Megaphones for Advertisers), 112 N 14th, Louisville, Ky.
Merriman Bros., 696 E. 1st, S. B., Boston, Mass.
Pratt, Z. I. Co., 138 W 27th, New York

Memorial Windows

Benziger Bros., 38 Barclay, New York
Bryant Bros., Columbus, O.
Butterworth, Thos. C., 15 Polk, San Francisco, Cal.
California Art Glass Works, San Francisco, Cal.
Century Stained Glass Works (Ltd.), 212 S 11th, Phila., Pa.
Church Art Work Co., 151 E 18th, New York
Colgate Art Glass Co., 8 Gansevoort, New York
Crowninshield, Fredk., 42 W 18th, New York
Dayton Art Glass Wks., Dayton, Ohio
Decorative Glass Co., 3243 Chestnut, Phila., Pa.
Decorative Stained Glass Co., 46 Washington sq. S, New York
Dougherty, James, 435 W B'way, New York

Dukes, Henry Glass Works (T. W. Tulton, Prop.), 2129 Market, Phila., Pa.
Eberhardt, Hugo & Co., 1148 W 12th, Chicago, Ill.
Flagg, L. G. & Co., Sudbury bldg, Boston, Mass.
Flanagan & Biedenweg Co., 63 Illinois, Chicago, Ill.
Ford Bros., Minneapolis, Minn.
Godwin, Albert, 1343 Arch, Phila., Pa.
Grimm, A. C., 155 E 23d, New York
Haskins Glass Co., Rochester, N. Y.
Hausletier, J. & Co., 173 Atlantic av, Brooklyn, N. Y.
Helnigke & Bowen, 24 E 13th, New York
Hooker, H. M. Co., 120 Wash'n, Chicago, Ill.
James, Walter, 138 W 42d, New York
Kerwin, E. F., Ornamental Glass Co., 925 N 6th, St. Louis, Mo.
Lamb, J. & R. (Inc.), 25 6th av, New York
Louisville Art Glass Co., Louisville, Ky.
Mackay & Co., Los Angeles, Cal.
Maginn, Charles, 17 E 14th, New York
Mayer & Co., 47 Barclay, New York
Morgan Bros., 707 Gates, Brooklyn, N. Y.
Morgan, John & Sons, 32 E 9th, New York, & 17 Union av, Brooklyn, N. Y.
Munich Art Glass Co., 510 Turk, San Francisco, Cal.
O'Halloran's, Thos. Sons, 127 Van Buren, Newark, N. J.
Passarge, Albert, & Co., 338 Gates av., Brooklyn
Payne, Geo. Hardy, Paterson, N. J.
Petgen Glass Co., Hamilton & 5th ave., Pittsburg, Pa.
Quaker City Stained Glass Works, 1407 Vine, Phila., Pa.
Rae, G., & Co., 436 W B'way, New York
Redding, Balrd & Co., 83 Franklin, Boston, Mass.
Reith, Wm., 134 N 7th, Philadelphia, Pa.
Richardson, H. H. & Co., Jacksonville, Pa.
Righter & Kolb, 156 5th av, New York
Riordan, G. C. & Co., 133 E 5th, Cincinnati, Ohio
SCHULER-MUELLER CO., 250 F Kenzie, Chicago, Ill. (See adv. index, end of book)
Sellers, Benjamin, 80 Bible House, New York
Spence, Bell & Co., 90 Canal, Boston, Mass.
Spiers, Richard N., 859 6th av, New York
Stevens Art Glass Co., Dayton, O.
Stoltzenberg Co., 51 Barclay, New York
Summers, Charles, 239 Nassau, Brooklyn, N. Y.
Tiffany Studios, 347 Madison av, New York
Van Horn, Daniel, Art Glass Works, Milwaukee, Wis.
Von Gerichten Art Glass Co., Columbus, O.
Wallis, A. H., 2000 Locust, St. Louis, Mo.
Western Sand Blast Mfg. Co., 21st & Marshall boul. Chicago, Ill.
Wood Glass Co., Syracuse, N. Y.

Mercurial Heat Generators

Honeywell Heating Specialty Co. ("Honeywell"), Wabash, Ind.

Merry Go-Rounds

(See Carousels, Organs, Etc.)

***Metal (Acid Proof)**

LAWRENCEVILLE BRONZE CO. (for Tin Plate Machinery), 31st & Penn av., Pittsburg, Pa. (See adv. index, end of book)

***Metal Bridging for Joist & Studding**

BOSTWICK STEEL LATH CO., Niles, O. (See adv. index, end of book)

Metal Ceilings

(See Cellings, Sheet Steel)

Metal (Compressed)

Chase Rolling Mill Co., Waterbury, Conn.

***Metal Corners for Concrete Blocks, Etc.**

HUNT METAL CORNER CO., Westboro, Mass. (See adv. index, end of book)

***Metal (Extruded)**

MERCHANT & EVANS CO. (Inc.) (Angles, Channels, Rods, etc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Metal Furring

(See Furring & Lathing, Iron)

Metal (Igniter Point)

Strelinger, Chas. A., Co. ("Casalloy") Detroit, Mich.

***Metal Importers & Exporters**

LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

Metal (Monel)

American Sheet & Tin Plate Co., Pittsburg, Pa.
Orford Copper Co., 43 Exchange pl, New York

Metal Novelties ("Nicolene")

National Sheet Metal Co., Peru, Ill.

Metal Novelties & Specialties

Acorn Brass Mfg. Co. (Stamped, Turned, Spinning & Drawing), 203 Fulton, Chicago, Ill.
Aluminum Mfg. Co. (Aluminum), Two Rivers, Wis.
American Enamel Co., Providence, R. I.
American Pin Co. (Stamped & Spun Turned, from Rod, etc.), Waterbury, Conn.
Baker & Co. (All Kinds Platinum Work), Newark, N. J.
Barrows Lock Co., Lockport, Ill.
Bronson, Homer D., Co. (From Brass, etc.), Beacon Falls, Conn.
Buescher Band Instrument Co. (Sheet Brass & Aluminum, in Casting, Stamping, Turning or Plating), Elkhart, Ind.
Chamberlain, J. H. D. Co., 275 Main, Springfield, Mass.
CHANDLER CO., Springfield, Mass.
(See adv. index, end of book)
Chelsea Mfg. Co., Chelsea, Mich. Elkhart, Ind.
Clark Novelty Co. (Made from Brass & Steel Rods, etc.), Rochester, N. Y.
Consolidated Fruit Jar Co., New Brunswick, N. J.
Cook, H. C. Co., Ansonia, Conn.
Crosby Co. (Sheet Metal Stamping & Drawing), 171-189 Pratt, Buffalo, N. Y.
Domestic Novelty Co., Newark, N. J.
Florence Mfg. Co. (Aluminum Brushes, etc.), Florence, Mass.
Fargo, E. A. Co. (Aluminum, etc.), Taunton, Mass.
Gaynor & Mitchell Mfg. Co. (Special Sheet Metal Goods), Bridgeport, Conn.
Globe Machine & Stamping Co., Cleveland, O.
Goertz, Aug., & Co. (Fancy Metal Goods), Newark, N. J.
Goodwin & Kintz Co. (From Brass, Aluminum, Nickel, etc.), Winsted, Conn.
Grammes, L. F., & Sons (Wrought Brass, etc.), Allentown, Pa.
Havell Mfg. Co. (Gilt, Silvered, Nickel Plated, Brass, Steel & Enameled), 284 Wash'n, Newark, N. J.
Illinois Pure Aluminum Co. (Aluminum Combs, Hair Pins, Thimbles, etc.), Lemont, Ill.
Keyes-Davis Co. (Ltd.), Battle Creek, Mich.
Lockwood Co., Newark, N. J.
McKenna Bros. Brass Co. (Ltd.), Pittsburg, Pa.
Manitowoc Aluminum Novelty Co. (Aluminum Novelties & Combs), Manitowoc, Wis.
Mergott, J. E., Co. (Fancy Metal Goods), Newark, N. J.
Metal Furnishing Co., Union City, Conn.
Mossberg, Frank, Co. (Sheet Metal, Stamped & Punched), Attleboro, Mass.
Mossberg Wrench Co. (Sheet Metal Stampings), Central Falls, R. I.
Newark Sheet Metal Ware Co., 50 Elm, Newark, N. J.
New Jersey Aluminum Co. (Aluminum Souvenirs, Signs, Boxes, etc.), Newark, N. J.
NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv. index, end of book)
Novelty Mfg. Co. (Brass Mounting & Trimmings), Waterbury, Conn.
Oakville Co. (Pins, etc.), Oakville, Conn.
O'Neill & O'Neill (Fancy Metal Goods), Newark, N. J.
Parke, Jno. Y. & Co. (Brass Goods for Hardware Trade), 728 Cherry, Phila., Pa.
Poeter, E., & Co. (Fancy Metal Goods), Newark, N. J.
Riley-Klotz Mfg. Co., Newark, N. J.
Salo Art Metal Co. (Etched, etc.), 19 Collier, Binghamton, New York
Sparks, Withington Co. (Sheet Metal), Jackson, Tenn.

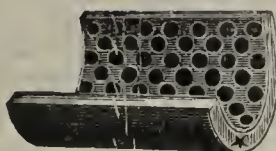
OILLESS BEARINGS

"METALINE"

(TRADE MARK)

Registered in United States.

For use in Loose Pulleys, Tackle Block and Wire Rope Sheaves, and many other places. Correspondence Solicited.



NORTH AMERICAN METALINE CO., 4 WEST AVENUE, LONG ISLAND CITY, N. Y.

Success Mfg. Co. (Ash Sifters, Roof Flanges), Thompson, Mrs. Frank K. (Brass), Elkhart, Ind.
 Torrington Mfg. Co. (Brass & Iron), Torrington, Conn.
 Troy Stamping Works (Novelties), Troy, N.Y.
 Turner Brass Works, Sycamore, Ill.
TURNER & SEYMOUR MFG. CO. (Of All Descriptions), Torrington, Conn. (See adv. index, end of book)
 Union Novelty Mfg. Co. (Wood, Iron, Metal etc.), 1338 Charles, Indianapolis, Ind.
 Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.
 Watson-Porter-Watson Co. (Ltd.), Unadilla, Mich.
 Waterbury Brass Goods Corporation (Made from Brass), Waterbury, Conn.

Metal Parts for Loose Leaf Devices

Shultz, W. J.-Tenacity Co., 116 Opera Place, Cincinnati, O.

Metal Polish

Adams & Elting Co. ("Meto Bright"), Chicago, Ill.
 Adro Company ("Adro"), 31 Park Row, New York
 Advance Packing & Supply Co. ("Advance"), Chicago, Ill.
 Acme Polish Co. ("Acme"), Pittsburg, Pa.
 Allen, L. B. Co. ("Al-Lectro" for Metal & Glass), 1335 Columbia av, Chicago, Ill.
 Allers, Harry A. & Co. ("Solarine"), 136 Liberty, New York
 American Metal Polish Co. ("Silva-Put," "Meyers," "Universal," Metal-Put-Pomade), West Somerville, Mass.
 American Oil & Disinfectant Co., 264 Pearl, New York
 Armstein, Eugene ("Shine-All"), 35th & Shields av, Chicago, Ill.
 Auto-Bright Mfg. Co. ("Auto-Bright"), 36 John, Buffalo, N. Y.
 Ayrolite Co. ("Ayrolite"), Pittsburg, Pa.
 Bell Mfg. Co. ("Star," Liquid, Powder & Paste), St. Louis, Mo.
 Brown Specialty Machinery Co. ("Aseptine"), Jackson boul & Clinton, Chicago, Ill.
 Buffalo Specialty Co. ("Shinebright," Metal Liquid), 375 Ellicott, Buffalo, N. Y.
 Cleaner Mfg. Co. ("Polishine," Liquid Paste & Powder), 2842 Olive, St. Louis, Mo.
 Cleanola Co. ("Spe-De-Shyne"), Pittsburg, Pa.
 Colgon Mfg. & Supply Co. ("Peerless"), 42 South, New York
 Cross, W. H. ("Gilt Edge" Liquid, Paste & Powder & "Cross" Paste), 18 Franklin, Brooklyn, N. Y.
 Edmonds, J. Wesley & Son ("Edmond's Electric"), 213 Franklin, New York
 Flebing Chemical Co. ("Flebing" Lusterine), Milwaukee, Wis.
 Grady Mfg. Co. ("Scouree," "U-No," "Putz," "Glittershine," "Army & Navy," "National," "Compound"), 614 W 39th, New York
 Gramlich Chemical Co. ("Bar Boy's Friend"), Detroit, Mich.
 Greene Mineral Paste Co., Keene, N. H.
 Harris, A. W. Oil Co. ("Harris-Scouree"), Providence, R. I.
 Harvey Chemical Co. ("Pride of the Bar Room" Powder, "Pride of the Housekeeper," "American" Liquid, Paste, "Superior Silver," "Majestic"), Lafayette, Ind.
 Hassler, Owen C., Co. ("Hassler" Albright), 565 W. Fullerton av., Chicago, Ill.
 Hatt, Chas. E., Polish & Chemical Co. ("Hatt's" Rubbing Polish), 388 Michigan av., Detroit, Mich.
 Hinds & Coon ("Ruby-Rub"), 126 Pearl, Boston, Mass.

Hoffman, Geo. W. ("U. S." Infalible Paste, Powdered & Liquid, "Bar Keepers' Friend"), 549 E Washington, Indianapolis, Ind.
 Hoffman, J. W. Co. ("Anchor"), 436 Atlantic av, Boston, Mass.
 Hollingshead, R. M. Co. ("Electro-Shine"), Camden, N. J.
 Hopkins, J. F. ("Bright Star"), 151 Varick, New York
 International Metal Polish Co. ("Blue Ribbon"), 2142 N Capitol av, Indianapolis, Ind.
 Ives Polish Co. ("Ives' Flashlight"), 108 Fulton, New York
 Johnston, Wm. T., Co. ("Moonshine Brand"), Cincinnati, Ohio
 Kimball, C. M., Winthrop, Mass.
 Kortum Mfg. Co. ("Zircon"), Buffalo, N. Y.
 Landers, Frary & Clark ("L. F. & C." Cleaning & Polishing Powder for Gold, Silver Plated Ware, etc.), New Britain, Conn.
 Matchless Metal Polish Co. ("Mexoline" Liquid Non-Inflammable, "Matchless" Paste), 151 Varick, New York
 Menham, Geo. S. & Co., East St. Louis, Ill.
 Miller Bros. & Co. ("Sterling" Silver Polish & "Dazzler" Putty Liquid), 31 Jay, New York
 Moore, E. C. & Sons Co. ("Moore"), Detroit, Mich.
 Mutual Auto Accessories Co. of America ("Skidoo," "23" & Hand Soap), 1937 B'way, New York
 National Tripoli Co. (Tripoli), Columbus, O.
 National Cement & Rubber Mfg. Co. (Liquid), Toledo, O.
 Oriental Rouge Co. ("Oriental" Rouges), Bridgeport, Conn.
 Rath Mfg. Co. ("Imperial," "Staraline," "Swiss Shine," "Golden Sceptre," "High Shine"), Headley & Richmond, Phila., Pa.
 Reid, W. W., Mfg. Co. ("Reid's" Putz), 79 Milk, Boston, Mass.
 Sa-Mo Chemical Co. ("Sa-Mo," Liquid & Paste)
 Rex Chemical Co. ("Crown," Liquid, Powder & Paste & "Diatom" Liquid & Powder), 842 W Balto., Baltimore, Md.
 Schlegel, Oscar, Mfg. Co. ("Lustreine" Liquid), 111 E 12th New York
 Sheppard, W. S. ("Prestoshine"), 21 Lawrence, Newark, N. J.
 Silverdip Co. ("Silverdip"), 37 W 23d, New York
 Solshine Mfg. Co. ("Solshine"), 204 Milk, Boston, Mass.
 Sonneborn, L., Sons (Inc.), ("Amalia" Paste, Liquid & Non-Burning), 262 Pearl, New York
 Steward, D. M. Mfg. Co. ("Stained" Powder for Cleaning & Polishing everything), Chattanooga, Tenn.
 Tarbox Mfg. Co., New London, Conn.
 Trafton, F. M., Co. ("Brilliant"), Boston, Mass.
 Ulrich & Co. ("A-O. K." "Raydo" Liquid & Dry), Buffalo, N. Y.
 Utility Co., 636 W. 44th, New York
WALSH, JOHN F., CO. ("Ideal" Liquid & Paste), Pittsfield, Mass. (See adv. index, end of book)
 Wilson Co. ("Wilson" Liquid), 18 B'way, New York
 Works, Long Island City, N. Y.
 Winn, Wm. R. ("Winn"), 143 Maiden Lane, New York & Springfield, Mass.
 Wright, J. A., & Co. ("Red Star" Powder), Keene, N. H.

Metal Sash & Mouldings

Anderton, Ralph L., 210 Grand, New York
CLASON ARCHITECTURAL METAL Works (Metal Sash Only) Works: 428 Kinsley av, Providence, R. I. (See adv. index, end of book)
JONES, TREVOR F. & CO. (In Aluminum, Bronze, etc.), 374 W B'way, New York. (See adv. index, end of book)

Metal (Silver)

Empire Metal Co. (For Bright Galvanizing), Syracuse, N. Y.

Metal Surfer

Peckham Mfg. Co. (For Dry Barrel Polishing), 244 South, Newark, N. J.
 St. Louis Surfer & Paint Co. ("Koons," "Metalsteel"), St. Louis, Mo.

Metal (Tungsten)

(See Ferro Alloys of Various Kinds)

*Metaline

NORTH AMERICAN METALINE CO., 4 West av., Long Island City, N. Y. (See adv. index, end of book)

Metallic Arsenic

Lehn & Fink, 120 William, New York

Metallic Sash Bars

Anderton, Ralph L., 210 Grand, New York
 Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
 Columbus Corner Post Co., Columbus, O.
 Coulson, J. W., & Co., Columbus, O.
 Detroit Show Case Co., Detroit, Mich.
 Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
 Hester Mfg. Co. ("Hester"), Portland, Ore.
JONES, TREVOR F. & CO., 374 W B'way, New York. (See adv. index, end of book)

Trevor F. Jones. Henry H. Jones
 Established 1883.
TREVOR F. JONES & CO.,
 Manufacturers of
Metal Sash Bars and Mouldings for Store Fronts,
 Covering of Woodwork in Aluminum, German Silver, Nickel, Brass, Bronze, Copper, etc.
374 West Broadway, New York City.
 Tel. 2759 Spring.

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
 National Sheet Metal Co., Peru, Ill.
 Phillips, John, & Co., Detroit, Mich.
 Rochester Show Case Works, Rochester, N. Y.
 Schultz, C. H., St. Joseph, Mo.
 Volz Mfg. Co., St. Joseph, Mo.
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

*Metals (Aluminum)

LEAVITT, C. W., & CO., 30 Church, New York. (See adv. index, end of book)

Metals (Anti-Friction)

(See Babbitt Metal; also Bearings, Various Kinds)

*Metals (Antimony)

LEAVITT, C. W., & CO., 30 Church, New York. (See adv. index, end of book)

*Metals (Antimonial Lead)

LEAVITT, C. W., & CO., 30 Church, New York. (See adv. index, end of book)

*Metals (Bismuth)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

*Metals (Copper)

LEAVITT, C. W., & CO., 30 Church, New York. (See adv. index, end of book)

***Metals (Magnesium)**

LEAVITT, C. W., & CO., 30 Church, New York. (See adv. index, end of book)

***Metals (Manganese)**

LEAVITT, C. W., & CO., 30 Church, New York. (See adv. index, end of book)

***Metals (Nickel)**

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Metals (Old)

(See Scrap Iron & Steel)

Metals (Platers)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Pilling Brass Co., Waterbury Conn.

Metals (Rare)

Tungsten & Rare Metals Co., Beaver Falls, Pa.
LEAVITT, C. W., & CO., 30 Church, New York. (See adv. index, end of book)
Victor Metals Co. (Non-Corrosive Silver Metal & Bronzes), East Braintree, Mass.

Meter Provers

American Meter Co., 561 47th, New York
McDonald, D. & Co., Albany, N. Y.
Maryland Meter Co., Baltimore, Md.
New York Improved Meter Co., 306 E. 47th, New York
Phoenix Meter Co., Camden, N. J.
PITTSBURG METER CO., East Pittsburgh, Pa.
Standard Meter Co., 8th & Mifflin, Phila., Pa.

Meter Seals

Adjustable Clip Co. ("Peerless"), Columbus, Ohio
Columbus Meter Seal Mfg. Co. (For Gas & Water), Columbus, O.
Safety Meter Lock Co., Columbus, O.
Standard Appliance Co., Columbus, Ohio

Meters (Acetylene)

Frontier Gas Meter & Appliance Co., Buffalo, N. Y.
Griffin, John J. & Co., 1513 Race, Phila., Pa.
Keystone Meter Co., Royersford, Pa.
Maryland Meter Co., Baltimore, Md.

Meters (Auto)

(See Meters, Speed Indicating)

***Meters (Beer)**

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Meters (Cut)

Schuchardt & Schutte ("Cito" for Measuring Cutting Speed of Machine Tools), 90 West, New York

***Meters (Disc)**

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Meters (Distance Recording)

Bell Odometer Works ("Bell" Odometer), Oakmont, Pa.
Bullard, J. H. (Speedometer & Odometer combined), Springfield, Mass.
Chrono-Velocimeter Co., 1215 Filbert, Philadelphia, Pa.
Du Vivier, Ernest H., 30 Church, New York
Hoffecker Speed & Mile Register Co., Park Sq. Boston, Mass.
Lee Speedistimeter Co., Trenton, N. J.
Loring, E. J. (Speedometer & Odometer combined), Somerville, Mass.

Rollins Mfg. Co. (Speedometer & Odometer combined), Park sq. Boston, Mass.
Sibley & Pitman ("Abell"), 26 Warren, New York

Smith, R. H., Mfg. Co. (Speedometer & Odometer Combined), Springfield, Mass.
Stewart-Clark Mfg. Co., Chicago, Ill.
Veeder Mfg. Co. ("Veeder" Cyclometers, Odometers), Hartford, Conn.

Webb Mfg. Co., 60 Shipman, Newark, N. J.
Wheelock Motor Car Clock Co. (Speedometer & Odometer Combined), Tremont bldg., Boston, Mass.

Winchester Speedodometer Co., 1557 Broadway, New York
Wood Speedometer Co., 104 Sudbury, Boston, Mass.

Meters (Electric)

(See Wattmeters; also Ammeters & Voltmeters)

Meters (Frequency)

Holtzer-Cabot Electric Co., Brookline, Mass.

Meters (Fuel Gas)

American Meter Co., 561 W 47th, New York
Chaplin-Fulton Mfg. Co., Pittsburgh, Pa.
Pittsburg Supply Co., 439 Water, Pittsburgh, Pa.

Meters (Gas)

American Meter Co., 561 W 47th, New York
Cleveland Gas Meter Co., 2180 E. 65th, S. E., Cleveland, O.
Detroit Meter Co. ("Buhl"), Detroit, Mich.
Equitable Meter Co. ("Equitable" Dry), Pittsburgh, Pa.

Gas Machinery Co. (Station), Citizens' bldg., Cleveland, O.

Griffin, J. J. & Co., 1513 Race, Philadelphia, Pa.
Helme & McIlhenny, 1339 Cherry, Philadelphia, Pa.

Keystone Meter Co., Royersford, Pa.
La Porte Gas Meter Co., La Porte, Ind.
McDonald, D., & Co., Albany, N. Y.
Maryland Meter Co., Baltimore, Md.
Metric Metal Works, Erie, Pa.
N. Y. Improved Meter Co., 306 E. 47th, New York
Ohio Gas Meter Co., Cleveland, O.
Phoenix Meter Co., Camden, N. J.
PITTSBURG METER CO. ("Westinghouse" Gas & "Westinghouse" Proportional), East Pittsburgh, Pa.

Rotary Meter Co. (Rotary Meter), 280 B'way, New York
Sprague Meter Co. (Cast Iron), Bridgeport, Conn.

Standard Meter Co., 8th & Mifflin, Phila., Pa.
Standard Meter & Mfg. Co., 521 W. 45th, New York
Tufts, Nathaniel, Meter Co., Boston, Mass.

Meters (Grade Indicating)

Adams Co., Dubuque, Ia.
Motor Car Supply Co. ("Updown"), 1427 Michigan av, Chicago, Ill.
Sussfeld, Lorsch & Co., 37 Maiden Lane, New York
Willis, E. J. Co., 8 Park pl, New York

***Meters (Hot Water)**

PITTSBURG METER CO., East Pittsburgh, Pa.

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Meters (Oil)

BOWSER, S. F., & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Buffalo Meter Co. ("The Niagara"), 290 Terrace, Buffalo, N. Y.

National Meter Co., 86 Chambers, New York
PITTSBURG METER CO., East Pittsburgh, Pa.

UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

***Meters (Piston)**

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Meters (Pocket)

Atwater Kent Mfg. Wks. ("Kent" Electric), 120 N 6th, Phila., Pa.
Connecticut Telephone & Electric Co. ("Connecticut" for Testing Batteries), Meriden, Conn.
Robert Instrument Co. (Battery Testing), Detroit, Mich.

Meters (Photometer)

American Meter Co., 561 W. 47th, New York

Meters (Prepayment Gas)

American Meter Co., 561 W. 47th, New York
Cleveland Gas Meter Co., 2180 E. 65th, Cleveland, O.
Helme & McIlhenny, Phila., Pa.
Keystone Meter Co., Royersford, Pa.
McDonald, D., & Co., Albany, N. Y.
Maryland Meter Co., Baltimore, Md.
N. Y. Improved Meter Co., 306 E. 47th, New York
Phoenix Meter Co., Camden, N. J.
PITTSBURG METER CO., East Pittsburgh, Pa.

Sprague Meter Co. (Cast Iron), Bridgeport, Conn.

Standard Meter & Mfg. Co., 521 W. 45th, New York

Meters (Proportional Gas)

Equitable Meter Co. ("Wylle"), Pittsburgh, Pa.
PITTSBURG METER CO. ("Westinghouse"), East Pittsburgh, Pa.

Meters (Speed Indicating)

(See also Indicators, Speed)

Bullard, J. H. (Speedometer, Odometer & Clock combined), Springfield, Mass.
Chicago Pneumatic Tool Co. ("Boyer"), Fisher bldg, Chicago, Ill.

Chrono-Velocimeter Co., The, 1213 Filbert, Phila., Pa.

Du Vivier, Ernest H., 30 Church, New York
Electric Speed Meter Co., The, 141 E 4th, Cincinnati, O.

Hicks Speed Indicator Co., 1263 Atlantic av, Brooklyn, N. Y.

Hoffecker Speed & Mile Register Co., Park sq. Boston, Mass.

Jones Speedometer Co. ("Jones"), 76th & B'way, New York

Jones, Wm. S. ("Lea" Speedometer), 112 N Broad, Phila., Pa.

Lipman, Carl E. L., Beloit, Wis.

Loring, E. J. (Also Speedometers & Odometers Combined), Somerville, Mass.

Monitor Speed Recorder Co., 247 Pearl, Cambridge, Mass.

Motor Car Specialty Co. (Combination Speed Meter, Odometer & Clock), 143 E State, Trenton, N. J.

Nicholson Ship Log Co. ("Nicholson" for Motor Boats, Yachts, etc.), Cleveland, O.

Parker Mfg. Co., Boston, Mass.

Rollins Mfg. Co. (Combined Speedometers & Odometers), Park sq, Boston, Mass.

Smith, R. H. Mfg. Co. ("Springfield" Speedometer & Odometer Combined), Springfield, Mass.

Star Speedometer Co. ("Star"), Danville, Pa.

Uncas Specialty Co., 21-37 Shipping, Norwich, Conn.

Veeder Mfg. Co. ("Veeder Tachometer"), Saragant & Garden, Hartford, Conn.

Warner Instrument Co. ("Warner" Auto-Meter), Beloit, Wis.

Webb Mfg. Co., 60 Shipman, Newark, N. J.

Wheelock Motor Car Clock Co. ("Wheelock" Speedometers & Odometers combined), Tremont bldg, Boston, Mass.

Winchester Speedodometer Co., 1557 Broadway, New York

Wood Speedometer Co., 106 Sudbury, Boston, Mass.

Meters (Station)

American Meter Co., 561 W. 47th, New York
Helme & McIlhenny, 1339 Cherry, Phila., Pa.
McDonald, D. & Co., ("Hinman" Station Meter Drum, Wet), Albany, N. Y.

Maryland Meter Co., Baltimore, Md.

Phoenix Meter Co., Camden, N. J.

Rotary Meter Co. (Rotary Meter), 280 B'way, New York

Standard Meter Co., 8th & Mifflin, Phila., Pa.

Tufts, Nathaniel, Meter Co., Boston, Mass.

Meters (Steam)

American District Steam Co. ("Holly & Simplex" Condensative), Lockport, N. Y.
 Pearce, W. H. & Co. ("Crescent" Condensation), 209 Dearborn, Chicago, Ill.
 St. John, G. C., 140 Cedar, New York
 Sargent Steam Meter Co. ("Sargent"), 303 Dearborn, Chicago, Ill.

Meters (Test)

American Meter Co., 561 W 47th, New York
 New York Improved Meter Co., 306 E 47th, New York
 Phoenix Meter Co., Camden, N. J.
 Standard Meter Co. (Portable), 8th & Milford, Phila., Pa.

***Meters (Turbine Water)**

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Meters (Water)

American Valve & Meter Co. ("Cincinnati" "Acorn"), Cincinnati, O.
 Buffalo Meter Co. ("Improved Buffalo," "Niagara"), 290 Terrace, Buffalo, N. Y.
 Builders' Iron Foundry ("Venturi"), Providence, R. I.
 Desper, H. A. ("Reliance"), Worcester, Mass.
 Hersey Mfg. Co. (Disc, Rotary & Torrent), 314 W 2d, Boston, Mass.
 National Meter Co., 86 Chambers, New York
 Neptune Meter Co., 90 West, New York
PITTSBURG METER CO. ("Eureka" & "Keystone"), East Pittsburg, Pa.
 Sangamon Electric Co., Springfield, Ill.
 Simplex Valve & Meter Co. ("Simplex" for Large Pipes), 112 N. Broad, Phila., Pa.
 Standard Water Meter Co., 245 Robinson, Brooklyn, N. Y.
 Thomson Meter Co., 79 Wash'n, Brooklyn, N. Y.
UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)
WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Mica

(See also Mica, Ground & Pulp)

American Mica Co. ("Micabeston"), Newton Lower Falls, Mass.
 American Securities Corp. (Mica Mines), Keene, N. H.
 Asheville Mica Co., Asheville, N. C.
 Black Hills Mica Co., Auburn, N. Y.
 Chicago Mica Co. ("Micabond"), Valparaiso, Ind.
 Fitzgibbon Mica Co., Beverly, Mass.
 Franklyn & Ferguson (Electrical, Ground & Pulp), Cotton Ex. bldg, New York
 Great Southern Mica Co., Cleveland, O.
 Johns, H. W.-Manville Co. (Moulded), 100 William, New York
 Loos & Dilworth (Stained & Pulp), 134 S Front, Phila., Pa.
 Mica Insulator Co. (Micanite), 68 Church, New York
 Mica Mfg. Co., 307 W B'way, New York
 Munsell, Eugene & Co., 68 Church, New York
 National Gum & Mica Co. (Ground & Pulp, etc.), 502 W 45th, New York
 North Carolina Mica Co., 84 North, Boston, Mass., & 45 E Lake, Chicago, Ill.
 Plas Mica Co. (Soluble Mica), Yonkers, N. Y.
 Preston, R. K. Co., Monadnock blk., Chicago, Ill.
 Richmond Mica Co. (Ground, etc., Miners & Mfrs.), Richmond, Va.
 Schoonmaker, A. O. (Importer), 221 Fulton, New York
 Selling Company, (Inc.), 225 5th av, New York
 Storrs Mica Co. (Headlight Chimneys, Lantern Globes, etc.), Owego, N. Y.
 United States Mica Co. (Sheet, Ground, Electric Plate, Washers, Discs & Flake Lubricant), 238 La Salle, Chicago, Ill.
 Vance, D. T., Plumtree, N. C.
 Vance, T. B. (Ground), Plumtree, N. C.
 Watson Bros., Boston, Mass.
 Whittaker, W. H., 245 Front, New York

Mica Chimneys

(See Chimneys, Mica)

Mica (Ground & Pulp)

(See also Mica)

Atlas M. & M. Co., Lincoln, N. J., & 82 Pearl, New York
 Loos & Dilworth, 134 S Front, Phila., Pa.
 National Gum & Mica Co., 502 W 45th, New York
 Richmond Mica Co. (Miners & Mfrs.), Richmond, Va.
 United States Mica Co., 238 La Salle, Chicago, Ill.
 Vance, T. B. (Ground), Plumtree, N. C.
 Whittaker, W. H., 245 Front, New York

Mica Insulators

(See Insulators)

***Mica (Schist)**

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
RUTLAND FIRE CLAY CO. (Pulverized), Rutland, Vt. (See adv. index & branch offices, end of book)

Micrometers

Automatic Level Co. ("Hights," Grade Finder & Level), Toledo, O.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Costello, H. O. (Quick Adjusting), 87 Oakland av., Providence, R. I.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
 Massachusetts Tool Co. (Outside & Inside), Greenfield, Mass.
 Olsen, Tinlus, & Co., 500 N. 12th, Phila., Pa.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Schaeffer & Budenberg Mfg. Co. (For Measuring the Thickness of Paper, Cloth, etc.), 963 Kent av., Brooklyn, N. Y.
 Slocumb, J. T. Co., 29 Oxford, Providence, R. I.
 Smith, E. G. Co. ("Columbia"), Columbia, Pa.
STARRETT, L. S. CO. (Outside & Inside), Athol, Mass. (See adv. index & branch offices, end of book)
 Syracuse Twist Drill Co., Syracuse, N. Y.

***Microscopes**

QUEEN & CO. (Inc.), n. w. c 8th & Arch, Phila., Pa. (See adv. index, end of book)

Milk-Shakers

Erie Specialty Co., Erie, Pa.
 Watkins, Jas. Y., & Son, 16 Catherine, New York

Mill Cogs

Bowsher, N. P. Co. (Wooden), South Bend, Ind.
 Cover, H. S. (Dressed), South Bend, Ind.
 Menasha Mfg. Co. (Hard Maple), Menasha, Wis.

***Mill White (Rice's)**

U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Mill & Factory Supplies

(Firms indicated by a Star (*) Manufacture Belting also)

See also Belting & Belt Appliances.
 Also Waste, Cotton & Wool
 Also Gears.
 Also Hangers.
 Also Lubricating Oils & Greases
 Also Machinery, Power Transmission.
 Also Packing Mfrs., etc.
 Also Pipe & Boiler Coverings.
 Also Shafting.
 For all other Mill & Engineers' Specialties, see index of Contents.

ALABAMA.

ANDALUSIA—Benson Hardware Co.
 ANNISTON—Anniston Supply Co.
 BIRMINGHAM—Calrns-Piper Equipment Co.
 Charlotte Supply Co.
 Continental Gln Co.
 Crane Co. (of Chicago, Ill.) Est., 1855. (See adv. index, end of book)
 Moore & Handley Hardware Co.
 Yates, J. A. & Co.
 McClary-Jennison Co. (Also Mine)
 Young & E. Vann Supply Co. (Also Mine)

BRIDGEPORT—De Loach Mill Mfg. Co.
 GADSDEN—Ewing Hardware Co. (Also Mine)
 GREENVILLE—Henderson, C. C. Machine Co.
 Johnson, J. F. Hardware Co.
 MOBILE—American Supply Co.
 Barney-Cavanaugh Hardware Co.
 Cole, E. L.
 Cunningham Hardware Co.
 Mellett, Richard
 Southern Hardware & Supply Co.
 Standard Equipment Co.
 MONTGOMERY—Alabama Machinery & Supply Co.
 Barnett, G. W., Hardware Co.
 Janney & Co.
 Luin Machinery Co.
 Snow-Tullis Hardware Co.
 OPELIKA—Phillips, Yarbrough Hdwe. Co.
 SELMA—Union Iron Works Co.
 TALLADEGA—Michael Supply Co.

ARIZONA TERRITORY.

NOGALES—Roy & Titcomb (Inc.), (Also Mine)
 PHOENIX—Thayer, Ezra W. (Also Mine)
 PRESCOTT—Hill, Samuel Hardware Co. (Also Mine)
 TUCSON—Gardner, Worthen & Goss (Also Mine)
 Steinfeldt, Albert & Co. (Mine)

ARKANSAS.

CAMDEN—Camden Machinery & Mill Supply
 DARDANELLE—Cox, Thos. Mfg. Co. Co.
 FORT SMITH—Atkinson-Williams Hardware Co.
 Ayers & Co.
 Ketcham Iron Co.
 Southwestern Mine & Mill Supply Co. (Also Mine)
 Speer Hdwe. Co.
 Webber-Ayres Hardware Co.
 HELENA—Tappan Hardware Co.
 HOPE—Hope Iron Works
 LESLIE—North Ark. Supply & Machine Co.
 Jones, Dudley E., Co.
 LITTLE ROCK—Fones Bros. Hardware Co.
 Jones, D. E. Co.
 Rose-Lyon Hdwe. Co.
 Rosenbaum, C. E. Machinery Co.
 Wehrfriz, E. C. Machinery & Supply Co.
 Wing & Stephens Co.
 MAGNOLIA—Davis & Warnock
 Davis & Warnock
 PINE BLUFF—Dilley Foundry Co.
 Fox Bros. Hardware Co.

CALIFORNIA.

ARCATA—Arcata Hardware Co.
 BAKERSFIELD—FAIRBANKS, MORSE & Co.
 CHICO — Diamond Match Co. (Engineering Dept.)
 GRASS VALLEY—Biggs, Elam Hdw. Co. (Also Mine)
 Grass Valley Hardware Co. (Also Mine), Noel Rd.
 LOS ANGELES—Baker & Hamilton, 136 N Los Angeles
 Boynton, H. R. Co. (Also Mine), 214 N Los Angeles
 *Busch, A. H. Co., 150 N Los Angeles
 Crane Co. (of Chicago), Est. 1855, 126 N Los Angeles
 Ducommun, C. (Also Mine), 300 N Main
FAIRBANKS, MORSE & CO., 136 S Los Angeles. (See adv. index, end of book)
 Henshaw, Bulkley & Co., 335 E Third
 Pacific Coast Mfg. Co., 126 S Los Angeles
 Smith-Booth-Usher Co., 214 S Los Angeles (Also Mine)
 Union Hardware & Metal Co., 411 E. 1st
 United Iron Works
 Warren & Bailey Mfg. Co. (Belting, etc.), 359 N Main
 Wlmore, John & Sons Co., 108 N Los Angeles
 NEVADA CITY—Turner & Hadley Co. (Also Mine)
 OAKLAND—Crane Co. (of Chicago), Est. 1855
 Delaney, F. W.
 United Iron Works
 PLACERVILLE—Meehan, M. Q. (Also Mine)
 REDDING—McCormack-Saeltzer Co.
 SACRAMENTO—Baker & Hamilton
 Schaw-Batcher Co.
 SAN FRANCISCO—Arnold Hdw. Co., 1442
 Atkins, E. C. & Co., 21 Main O'Farrell
 Baker & Hamilton, 433 Brannan
 Berger, Carter & Co., 34 Beale
 California Belting & Supply Co., 1425 Mission
 California Saw Works
 Cameron Bros. & Co. (Also Mine), 132 Market
 *Cook, H. N. Belting Co., 317 Howard

Crane Co. (of Chicago), Est. 1855, 1st & Howard

*Degan, L. P. Belting Co., San Francisco, Cal.

Dunham, Carrigan & Hayden Co. (Also Mine), 150 Kansas

FAIRBANKS, MORSE & CO., 158 1st.
(See adv. index, end of book)

Garlock Packing Co.

Golden State & Miners' Iron Works, 237 1st

Graton & Knight Mfg. Co., 30 Fremont

Harron, Rickard & McCone (Inc.), 21 Fremont

Hendy, Joshua Iron Works, 63 Fremont

Henshaw, Bulkley & Co., 219 Spear

Horsford Bros., 107 Main

Marwedel, C. W., 258 9th

*New York Belting & Packing Co. (Branch of New York), 605 Mission

Pacific Hardware & Steel Co., 7th & Townsend (Also Mine)

San Francisco Mill Furnishing Co., 142

Schaw-Batcher Co., 539 Mission First st

Taher-Biglow Co. (Inc.), 113 Main

United Iron Works

Wagner, Jos. Mfg. Co., 103 Mission

STOCKTON—Holt Mfg. Co.

COLORADO.

BLACK HAWK — Clark Hardware Co. (Also Mine)

BOULDER—Whiteley, M. S.

CRIPPLE CREEK—Cripple Creek Mine & Supply Co. (Also Mine)

DENVER—Dillon Hardware Co., 1525 15th

FAIRBANKS, MORSE & CO., 1600
17th. (See adv. index, end of book)

Garlock Packing Co.

Flint-Lomax Electric & Mfg. Co., 1400 Delgany

Hendrie & Bolthoff Mfg. & Supply Co., (Also Mine)

Holden Machinery & Supply Co.

Leyner, J. George Engineering Works Co.

Mine & Smelter Supply Co., 17th & Blake (Also Mine)

Montgomery, J. H. Machinery Co.

Morse Bros., Machinery & Supply Co.

Onderdonk Engineering Co., 406 17th

Scott Supply & Tool Co. (Also Mine), 1725 S.-H. Supply Co.

Stearns-Roger Mfg. Co., 1724 California

OURAY—Arps Bros. Hardware Co. (also Mine & Smelter)

Carney Hardware Co. (Also Mine)

TELLURIDE—Tomkins-Cristy Hardware Co.

CONNECTICUT.

BRIDGEPORT—Hardware & Supply Co.

Hawley Hardware Co.

Hawley, Thomas & Co.

Hunter & Hovens

Lyon & Grumman

*Palmer, N. & Co.

Winn, William R.

BRISTOL—Shaffer, Frank A.

Stedman & Co.

Weldon, S. A. & Son

DANBURY—Hoyt, H. W. Co.

General Supply Co.

DANIELSON—Jacobs, E. H. Mfg. Co. (Textile)

DERBY—Hallock, F. Co.

HARTFORD—Bldwell, J. C. & Co.

Blodgett & Clapp Co.

Clapp & Treat

Connecticut Rubber Co.

Ensworth, L. L. & Son

Francis & Co.

Hartford Mill Supply Co.

Plimpton & Hills Corporation

Tracy, Robinson & Williams Co.

MERIDEN—Cashen, W. B.

Church & Morse

MIDDLETOWN—Noxon & Whitney Co.

NEW BRITAIN—Abbe, A. H. & E. W.

Mills, Herbert L.

Rapelye, George

NEW HAVEN—Bushnell, N. T. Co., 289 State

Coe & Brown, 202 George

Mersick, C. S. & Co. (Belting, Packing, etc.), 286 State

NEW LONDON—Darrow & Comstock Co.

Eaton & Wilson

Williams, Geo. M. Hardware Co.

NORWALK—Hubbell & Staples Hdwe. Co.

NORWICH—Brown, Robert

Carroll, G. W.

Eaton-Chase Co.

Norwich Belt Mfg. Co.

Preston Bros.

PUTNAM—Chandler & Morse

ROCKVILLE—Harris, C. E.

SEYMOUR—Seymour Lumber & Hardware

SOUTH NORWALK—Dow, Chas. E.

SOUTH MANCHESTER—Blush, F. T. Hdw. Co.

STAFFORD SPRINGS—Brown & Pinney

STAMFORD—Davenport, John S. & Son

Wilson, James & Co.

THOMASTON—Welton, H. A.

TORRINGTON—Agard Hardware Co.

Morrison, W. H.

UNION CITY—Page, J. M. & Co.

WALLINGFORD—Dickerman Hardware & Supply Co.

WATERBURY—Daly, M. J. & Sons

Hamilton Hardware Corp.

Hotchkiss & Templeton

Wilson, D. B. Co.

WILLIMANTIC—Clark, Herbert T.

WINSTED—Carroll, Jos. L.

Dickerman & Pond Co.

DELAWARE.

WILMINGTON—Ainsworth Covering Co.

Atlantic Mill Supply Co.

Delaware Electric & Supply Co.

Industrial Supply Co.

Kent, Lindley C. Co.

McComb, Thomas, 209 Shipley

Reynolds, Wm. K., 201 Spring Alley

Speakman Supply & Pipe Co.

Wilson & Hudson Hdw. Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Chesapeake Supply Co., 1009 Ninth st W.

Howard, Henry J. M., 915 E. N W

McCoy, Clarence E., 1523 Columbia

Mitchell, John, 1000 Pennsylvania av

National Electrical Supply Co., 1330 N. Y. av, N W

FLORIDA.

GAINESVILLE—Baird Hardware Co.

Thomas, S. J. Co. (Also Mine)

JACKSONVILLE—Atlantic Supply Co. (also Mine)

Christopher, John G.

Florida Hardware Co. (Inc.)

Georgia Supply Co.

Hubbard, S. B. Co. (Inc.)

Ploof, H. E. Machinery Co.

LIVE OAK—Hair Hardware Co.

OCALA—Marion Hardware Co. (also Mine)

PENSACOLA—Avery Hardware & Supply Co.

Gulf Machinery Works

Pensacola Iron Works & Supply Co.

ST. AUGUSTINE—Hamblen, C. F.

TAMPA—Cameron & Barkley Co.

Florida Gas Engine & Supply Co.

GEORGIA.

ALBANY—Alhany Machinery Co.

Bacon Equipment Co.

AMERICUS—Sheffield-Huntington Co.

ATHENS—Union Mill Supply Co.

ATLANTA—Atlanta Supply Co., 29 S Forsyth

Beck & Gregg Hdw. Co., 64 Marietta

Cotton States Belting & Supply Co. (Railway, Mill & Mach'y Supplies)

Dunn Machinery Co.

General Supply Co.

Graton & Knight Mfg. Co., 93 S Forsyth

Lowry Co.

Maisby Co., 41 S Forsyth

Phenix Supply Co.

Southern Belting Co., 44 S Forsyth

AUGUSTA—Lombard Iron Works & Supply Co.

BRUNSWICK—Downing Co. (Also Naval Stores)

Ellis-Young Co. (Also Naval Stores)

COLUMBUS—Beach, Wm. Hardware Co.

Bush, Phillips Hardware Co.

Golden Foundry & Machine Co.

CORDELE—Hutchinson Lumber & Supply Co.

DALTON—Finley & Son

FITZGERALD—Watt & Holmes Hardware Co.

FORT VALLEY—Georgia Agr'l Works

GAINESVILLE—Gainesville Iron Works

MACON—Mallory Mill Supply Co.

Schofield's, J. S. Sons Co.

ROME—Battley Machinery Co. (also Mine).

Terhune-Nixon Co.

SAVANNAH—Georgia Supply Co.

Hartfelder-Garbutt Co.

Lumberman Supply & Equipment Co.

Palmer Hardware Co.

Peoples, H. H. & Sons

Weed, J. D. & Co.

TIFTON—Slack, S. G. & Co.

Tift, H. H.

TOCCOA—Matheson, W. A.

Simpson & Co.

VALDOSTA—Briggs, W. H., Hardware Co.

WAYCROSS—Harley, N. P., Hardware Co.

Trent, F. D.

HAWAII.

HONOLULU—Catton, Nell & Co., Ltd.

Hall, E. O., & Son, Ltd.

Honolulu Iron Works Co.

IDAHO.

BOISE—Carlson-Lusk Hardware Co.

Eastman-Teller Co., Ltd.

Idaho Hdw. & Plumbing Co. (Also Mine)

Northrup Hardware Co.

LEWISTON—Cash Hardware Co.

Means, Mark Co., Ltd.

Myers & Toppling Hardware Co.

Ninneman Hardware Co.

WALLACE—Cœur D'Alene Hdw. Co. (Also Mine)

ILLINOIS.

BELLEVILLE—Central Valley Machy., Well & Supply Co. (Also Mine)

Hucke, Albert

Karr Supply Co.

BELVIDERE—Fellows, J. H. & Son

BLOOMINGTON—Eagle Machine Works

Keiser-Van Leer Co.

CAIRO—Cairo Iron & Machinery Supply Store

McCarthy & Mallnskl

Reed, J. B.

CHICAGO—Adams, Fred C., 36 La Salle

Adkins, Young & Allen Co.

Advance Packing & Supply Co., 123 Frank-

*Allen, W. D., Mfg. Co., 151 Lake

Atlas Belting Co., 152 E Lake

Besly, C. H. & Co., 15 S Clinton

Brand, S. H. & Co., 99 W Monroe

Burrell Mfg. Co., 251 S Jefferson

Caldwell, H. W. & Son Co., 17th & West-

ern av

CARPENTER, GEO. B. & CO., 202
S Water. (See adv. index, end of book)

Channon, H. Co., Randolph & Market

*Chicago Belting Co., 12 S Green

Chicago Engineers' Supply Co., 112 Lake

Chicago House Wrecking Co., W 35th & Iron

Chicago Pulley & Shafting Co., 34 Canal

*Chicago Rawhide Mfg. Co., 75 E Ohio

Clow, Jas. B. & Sons, 344 Franklin

Consolidated Supply Co., 321 Dearborn

(Also Mine)

Crane Co. (Est. 1855), 517 S. Canal. (See adv. index, end of book)

Crawford Co., 409 S Canal.

Crerar, Adams & Co., 11 5th av

Curtis & Co. Mfg. Co., 55 N Desplaines

Davies Supply Co., 20 N Clark

Deschauer, Stephen, 334 Blue Island av

Dodge Mfg. Co., 163 S Clinton

FAIRBANKS, MORSE & CO., Wa-
bash av & Eldredge pl. (See adv. index, end of book)

Fensholt & Fenchner, 54 S Canal

Garlock Packing Co., 115 S Franklin

*Gould Co., Ohio & Franklin

*Graton & Knight Mfg. Co., 165 E Lake

Gump, B. F. Co., 53 S Clinton

*Gutta Percha & Rubber Mfg. Co., 224 E Randolph

*Hamilton Rubber Mfg. Co., 161 Lake

Harris, Samuel & Co., 23 S Clinton

*Henion & Hubbell, 63 N Jefferson

Hills, McCanna Co., 128 E Kinzie

Illinois Malleable Iron Co. (Also Mine), 517 Diversey Boul.

*Jewell Belting Co., 175 E Lake

*Ladew, Edw. R. (Est. of), 135 E Lake

*Lynch, Edw. & Co., 84 W Washington

Lyon, Samuel & Son, 18 S Jefferson

McMaster-Carr Supply Co., 174 E. Lake

*Main Belting Co., 55 Market

Manning, Maxwell & Moore, 22, 24, 26 S Canal

*Mechanical Rubber Co., 230 Randolph

Monarch Mill & Supply Co., 501 Monad-nock Blk.

*Munson, Chas. Belting Co., 88 Franklin

*New York Belting & Packing Co., 150 Lake

*Norwich Belting Co., 115 W Washington

*Page Belting Co., 7 S Jefferson

Plamondon, A. Mfg

WELLER MFG. Co., 118 E North

av. (See adv. index, end of book)
 Whitehead, James H. Co., 30 S Canal
 *Williams, J. B. & Sons, 120 Franklin
 Winne, Howard B., 707 Chamber of Commerce

Wolf, Fred W. Co. (Packing, Pipe, Coverings, etc.), 141 Rees

Woodcock Bros., 66 W Lake
 Woodley, James C. & Co., 2256 Lumber

DANVILLE—Conron, Thos. Hardware Co.

DECATUR—Aultman & Taylor Machine Co.

Oakes, Wm. L.

FAIRFIELD—Martin, E. A.

FREEPORT—Dorman & Co.

GRANITE CITY—Bristow Hardware & Supply Co.

HOOPESTON—Sprague Canning Machinery Co.

JOLIET—Barrett Hardware Co.

KANKAKEE—Norris & Frith

MARSEILLES—Marseilles Mfg. Co.

METROPOLIS CITY—Harris & Cole Bros.

MOLINE—Barnard & Leas Mfg. Co.

OTTAWA—Reffor Hardware Co.

PEORIA—Bittel, Wm.

Couch & Heyle Co.

Kinsey & Mahler Co.

Meyer, F. & Bros. Co.

Nallon Bros. Co.

PRINCETON—Priestley Hardware Co.

QUINCY—Best, E., Plumbing & Steam Heating Co.

Grimm, Oscar E.

Hollister—Whitney Co.

ROCKFORD—Blake, J. C. Heating Co.

Savage & Love Co.

SPRINGFIELD—Hudson, J. L. Co.

Miller, W. B. & Son

INDIANA.

ANDERSON—May Supply Co.

AUBURN—Auburn Hardware Co.

Culbertson Hardware Co.

CARLISLE—Risinger & Ellis

COLUMBUS—Schwartzkopf, J. G. & Son

EVANSVILLE—Evansville Leather & Belting

Hellman Machine Works Co.

Holtz, F. Co.

Laib Co.

FORT WAYNE—Baltes Supply Co.

Fort Wayne Oil & Supply Co.

National Mill Supply Co.

Pfeiffer, Henry & Son

Schlatter, C. C. & Co.

Gary-Calumet Supply Co.

GOSPORT—Burkett, A. H.

GREENSBURG—Corbett & Rohe

Meek & Wooden

Mendenhall & Spilman

Watson, W. A.

INDIANAPOLIS—Atkins, E. C. & Co., 402 S

Barry Saw Co., 228 S Penn

Central Ruhher & Supply Co., 229 S Meridian

Duckwall-Harman Rubber & Supply Co., 114

S Penn

FAIRBANKS, MORSE & CO. (of

Chicago, Ill.), 140 S Meridian. (See adv.

index, end of book)

*Hide, Leather & Belting Co., 227 S Meridian

Hollday, W. J. & Co.

Indianapolis Belting & Supply Co., 18 S

Industrial Supply Co. Capitol av

Kenney Machinery Co., 124 Capitol av

Knight & Jillson Co.

Miller Oil & Supply Co., 352 S Meridian

Nordyke & Marmon Co., 1101 W Morris

Taylor Belting Co., 247 S Meridian

Van Camp Hdw. & Iron Co., 401 W Maryland

Vonnegut Hdw. Co., 120 E Wash

LAFAYETTE—Biggs, B. F., Pump Co.

Johnson Hardware Co.

Reule, Fredk.

LOGANSPOUT—Crawford, Isaac N.

Ullery, S. W. & Son

MARION—Hogin, McKinney & Co.

Marion Hdw. Co.

MISHAWAKA—Dodge Mfg. Co.

MUNCIE—Carpenter, Albert

Crozler, Cary

Jarecki Mfg. & Supply Co.

Kelser, Geo. & Co.

Knight & Jillson Co.

NEWCASTLE—Jennings, Winslow D.

RICHMOND—Jones Hdw. Co.

SOUTH BEND—South Bend Supply Co.

TERRE HAUTE—Austin Hardware Co.

Frictag, Weinhart & Co.

Smith's, C. C. Sons' Co.

Watson's, D. W. Sons Co.

INDIAN TERRITORY.

PURCELL—Berlinger Hardware Co.

IOWA.

BONAPARTE—Blackford, W. S. & A. V.

BURLINGTON—Murray Iron Wks. Co.

Stewart & Hayden Co.

CEDAR RAPIDS—Carmody, J. T.

Cedar Rapids Pump Co.

Fawcett, C. E.

Fenton, J. H. & Co.

Messner & Co.

DAVENPORT—Hanssen's, Louis, Sons.

Midland Supply Co.

DES MOINES—Dempster Mfg. Co., 211 E

Court av

Des Moines Mfg. & Supply Co., 1st 2 Court

*Globe Machinery & Supply Co., 416 Court

av

Iowa Machinery & Supply Co., 317 Court

av

DUBUQUE—Deckert, W. D. Co.

Dubuque Rubber & Belting Co.

McDonald, A. Y. & Morrison Mfg. Co.

Ragatz & Son.

ELDORA—Brown Bros.

FORT DODGE—Leighton Supply Co.

LE MARS—Pech, Gustave Fdry. & Mfg. Co.

MARSHALLTOWN—Shorthill, A. E. Co.

NORTHWOOD—Tenold Bros.

OTTUMWA—McDaniel, C. E.

SIoux CITY—Crane Co. (of Chicago, Ill.), Est.

1855. (See adv. index, end of book)

Interstate Supply Co.

Novelty Mfg. Co.

WATERLOO—Cutler Hardware Co.

Waterloo Mfg. Co.

KANSAS.

ATCHISON—Thayer Supply Co.

ENTERPRISE—Barnard Machinery Co.

Ehrsam, J. B. & Sons Mfg. Co.

ESKRIDGE—Trusler, Wm.

FORT SCOTT—Penneman, A. C. & Son

GLASCO—Davidson, L. F. & Co.

IOLA—Shannon, T. B.

JUNCTION CITY—Mnenzenmayer, J. J. & W.

F.

LEAVENWORTH—Great Western Mfg. Co.

WICHITA—Tholen Bros.

Walterscheid Machinery & Supply Co.

KENTUCKY.

ASHLAND—Ashland Foundry Machine Works

Henderson, Thos. & Son

Tri-State Supply Co.

BOWLING GREEN—Bowling Green Machine

Co.

Miller-Rogers Hardware Co.

FLEMINGSBURG—Henderson Plumbing &

Supply Co.

HENDERSON—Alves, Thos. D.

Blackwell, P. A. & Co.

HOPKINSVILLE—Metcalf, Thos. L.

LEBANON—Johnston, C. B.

LEXINGTON—Lexington Engine & Saw Mill

Works

Smith, Watkins & Co.

LOUISVILLE—Ahrens & Ott Mfg. Co., 325 W

Main

Belknap Hardware & Mfg. Co. (Inc.), 2d &

Washington

Cowan, Andrew & Co., 435 W Main

FAIRBANKS, MORSE & CO. (of Chi-

cago, Ill.), 519 W Main. (See adv.

index, end of book)

Hite, W. W. & Co., 154 4th

Kentucky Saw Works, 925 W Main

Laib Co., 439 W Main

Neill, W. H., 507 W Main

Pyne, W. T. Mill & Supply Co., 1301 W

Main

Semple, W. & A. C., 311 W Main

Todd-Donigan Iron Co., 817 W Main

Vogel, P. A. & Sons

Waters-Garland Co., 433 W Main

OWENSBORO—Gunther, W. & Sons

Gunther-Wright Machine Co.

Owensboro Hardware & Iron Co. (also

Mine)

Owensboro Mill Supply Co. (Also Mine)

PADUCAH—Hauk Bros.

Jackson Foundry & Machine Co.

Laib Co. (Also Mine)

Potter, Henry A. Supply Co.

Scott Hdw. Co.

LOUISIANA.

BATON ROUGE—Doherty Hardware Co.

Fuqua Hardware Co.

Garig Hardware Co.

DONALDSVILLE—Lemann, B. & Bro.

HAMMOND—Hammond Hardware & Supply Co.

LAFAYETTE—Lacoste Hardware Co.

MONROE—Southern Hardware Co.

NEW ORLEANS—Ahrens & Otto Mfg. Co.

Baldwin, A. & Co. (Ltd.), Camp & Com-

mon

Bancroft, Ross & Sinclair Co., Tulane &

Bynum & Russ S Hagen av

Chicago Belting Co., 406 Carondelet

Connell, J. D. Iron Works Co.

Glbens & Stream, 213 Canal

Haubtmann & Loeb Co. (Ltd.), 222 S Peters

Kittredge-Waters Supply Co., 422 Common

Kracke & Flanders, 630 Gravier

McArdle, P. H., Erato & Clara

Menge, J. H. & Sons (Ltd.), 210 Tchoupi-

Murphy, Jno. H., 643 Magazine toulas

New Orleans Foundry & Iron Co.

Patterson, C. T. Co. (Ltd.), 404 Carondelet

Payne & Joubert, 423 Carondelet

*Revere Ruhher Co., 700 Baronne

Russ, Julian A.

Simonds Mfg. Co. (Ltd.), Gravier & Tchoupi-

Southern Belting Co., 720 Union toulas

Stauffer, Eschelman & Co., Canal & Dorsiers

Van Horn, Oliver H.

White, A. H. Co., 532 Gravier

Whitney Supply Co., 108 N Peters

Wilmot Machinery Co.

Woodward, Wight & Co., 410 Canal

Young, C. P. Engineering & Supply Co.

RUSTON—Ruston Hardware & Supply Co.

SHREVEPORT—Gulf States Belting & Hose

Co.

Henderson, W. K. Iron Works & Supply

Co.

Means, J. L. Machinery Co.

Vordenbauman-Eastham Co.

THIBODAUX—Planters' Hardware & Mill Snp-

ply Co.

MAINE.

AUBURN—Elms, James

AUGUSTA—Brooks Hardware Co.

Fifield Bros.

BANGOR—Schwartz's, M. Sons, 213 Exchange

Snow & Neally Co.

Taylor, Abner, 122 Exchange

Union Iron Works

BATH—Johnson Bros.

Swanton-Jameson Co.

CALAIS—Eaton, J. B. & H. D.

GARDINER—Decker & Day Hdw. & Coal Co.

Scribner, Harvey (Est. of)

ELLSWORTH—Westcott, H. F.

HOULTON—Watson, John Co.

LEWISTON—Carman-Thompson Co.

Hall & Knight Hdw. Co.

Haskell, Geo. B. Co.

Smith, John B. & Co.

Stetson, J. H. Co.

Whitney, Geo. A. & Co.

MECHANICS FALLS—Penney, J. W. & Sons

PORTLAND—Adde & Co., 59 Kennebec

Co.

Blake, W. L. & Co. (Inc.), 79 Com'l

Corey, E. & Co., 197 Com'l

Chenery, Henry L. & Co., 468 Fore

Duan, H. A. & Co., 453½ Congress

Edwards & Walker Co., 5 Monument sq

Emery-Waterhouse Co., 145 Middle

Gerrish, J. J. Supply Co., 41 Com'l

King & Dexter Co., 11 Monument sq.

Merrill, T. L. Co., 228 Middle

CUMBERLAND—McKaig, Merwin (Also Mine)
Wilson & Pugh (Also Mine)
FREDERICK—Quynn, A. G. & Co.
SALISBURY—Dorman Smyth Hdw. Co.
Gunby, L. W. Co.

MASSACHUSETTS.

ADAMS—Mole, F. E.
AMESBURY—Fowler, F. S.
ANDOVER—Morse, Walter I.
ATHOL—Paige, C. F. & Co.
ATTLEBORO—Gifford, James W. Co.
AYER—Proctor, E. O.
BOSTON—American Shuttle Co., 53 State
Anderson, Geo. P., 163 Oliver
*Bay State Belting Co., 43 High
Bestasking Packing & Supply Co., 170 Summer
Bigelow & Dowse Co., 229 Franklin
*BOSTON BELTING CO., 256 Devonshire. (See adv. index, end of book)
Boston Engineers' Supply Co., 56 Purchase
Boston Steam Specialty Co., 168 Congress
Bowes, L. M. Co., 451 Atlantic av
Braman, Dow & Co., 239 Causeway
Brigham, Arthur A., 17 Milk
Brown, Frank H., 49 High
Brown, Lewis A. & Co., 78 North
Brown-Wales Co., 69 Purchase
Buerkel & Co., 24 Union Park
Chandler & Farquhar Co., 36 Federal
Chase, Charles E., 170 Summer
Chase, Parker & Co., Pearl st
Chesterton, A. W. & Co., 64 India
Claffin, Chas. A. & Co., 50 High
Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
Curry Oil & Supply Co., 284 Franklin
Cutter, Wood & Stevens Co., 68 Pearl
Dodge, Haley & Co., 218 High
Dodge Mfg. Co., 137 Purchase
Eagle Oil & Supply Co., 104 Broad
English, Charles R., Co., 301 Congress
Federal Metallic Packing Co., 137 High
Field, Wm. H., 35 Washington, N.
Flitts, Frank E., Mfg. & Supply Co., 88
Foley, James & Co., 89 High Purchase
Gallison, Wm. H. Co., 36 Oliver
Garlock Packing Co., 43 High
General Fire Extinguisher Co.
Gilchrist, Geo. E. Co., 106 High
Globe Leather Belting Co., 132 Pearl
Grant Nail & Supply Co., 47 High
Graton & Knight Mfg. Co.
Greenwood Mfg. & Supply Co., 147 Milk
Hamblet & Hayes Co., 6 High
Hinds & Coon, 126 Pearl
Holmes & Blanchard Co., 39 Wash N.
Hub Wire Cloth & Wire Works Co., 13 Devonshire
Hubbard, W. B. & Sons Co., 176 Oliver
Hunt, Henry C. & Co., 32 Oliver
Ireson, Chas. L., 148 High
Kessel, Henry, A. Co., 165 Milk
Knowlton, Geo. W. Rubber Co. (Mechanical Rubber Goods & Engineers' Supplies), 88 Broad
*Ladew, Edw. R. (Est. of), 228 Franklin
Lunt-Moss Co., 43 S. Market
McKerrow, H. G. & Co., 31 State
McLean-Brandon Oil & Supply Co., 65 Long Wharf
Manning, Maxwell & Moore, Franklin & Oliver
Morton, A. M. & Co., 25 Washington
Mulliken, Chas. F. Oil Co., 200 Friend
Murphy, Leavens & Co.
Nightingale & Childs Co., 205 Congress
New England Lubricant Co., 170 Summer
Otto Gas Engine Co., 18 P. O. Square
*Page Belting Co., 31 Pearl
Roberts, J. H. & Co., 137 Portland
Russell, J. H. & Co., 214 Milk
Shackley, W. T. & Son, 49 High
Sherburne & Co., 53 Oliver
Shultz Belting Co., 114 High
Smith & Thayer Co., 234 Congress
Speed & Stephenson (Textile), 170 Summer
Speare's, Alden, Sons Co.
Stoddard, Haselek Richards Co., 152 Congress
Sumner & Gerald, 287 Congress
Tenney, Morse & Co., 141 Pearl
Walworth Mfg. Co., 132 Federal
Wilkinson, A. J. & Co., 180 Wash'n
BROCKTON—Noyes, C. A. Co.
CHELSEA—Tukey, S. S. & Co.
CLINTON—Pratt, E. O.
EASTHAMPTON—Manchester, Geo. L.
Ryan, James P., 45 Cottage
FALL RIVER—American Supply Co., 104 Hartwell
Borden, Jefferson & Son, 283 Locust
Ruffington, Joseph L., 552 Maple
Chase, Stephen A.

Covel & Osborn Co., 139 Pleasant
Davis, N. Frank, 78 Bedford
Hartley, Alfred H.
Fyans, Fraser & Blackway Co.
Johnson, John F. Co.
Kilburn, Lincoln & Co.
Lord, Henry
Luther Reed Mfg. Co., 2060 S Main
McLeod, Wm., 136 Central
Miller, Nathan
Toohey, Michael J. & Co., 809 Stafford rd
Union Belt Co., 66 Troy
Wetherell, O. E. & Son Co.
FITCHBURG—Fitchburg Hardware Co.
Johnson, W. C.
Lawrence Sons & Co.
Parks, G. M. Co.
Wachusett Machine Co.
FRANKLIN—Hoise, Horace W.
Milliken's Sons, L. W.
Woodman, Geo. S.
GARDNER—Davis, Walter J.
GLOUCESTER—Andrews, L. E. & Co.
Stoddard, A. P. & Co.
GREENFIELD—Allen's, S. Sons.
HAVERHILL—Busfield, James
HOLYOKE—Chase & Cooledge Co.
Crosby Hardware Co.
Holyoke Valve & Hydrant Co.
Russell, G. E. & Co.
Russell, J. & Co.
Wells, E. D. & Co.
HYDE PARK—Tyler, Frank J.
LAWRENCE—Austin, M. E. & Co., 205 Essex
Barlow, John W. Co., 81 Holly
Burnham, E. E. Co., 252 Lowell
Hall, D. S. & Son, 381 Essex
Robinson Hardware Co.
Stanchfield, H. J. & Co.
Treat Hdw. & Supply Co., 584 Essex
LEICESTER—Watson, L. S. Mfg. Co.
LEOMINSTER—Gavin Hardware Co.
Leominster Hardware Co.
LOWELL—Adams Hardware & Paint Co., 404 Middlesex
Barker, H. R. Mfg. Co., 158 Middle
Bartlett, W. T. S.
Bartlett & Dow, 216 Central
Cady, George L. & Sons, 2 Fletcher
Clark, Jeremiah Mch. Co., 32 Perrin
Cheney & Thompson Co.
Coburn, C. B. Co., 63 Market
Hutchens, Geo. E., 107 Central
Knowles Scale & Supply Co.
Lowell Machine Shop, Dutton
Stead Tanning & Supply Co.
Thompson Hardware Co., 254 Merrimack
Turner, J. S. Mfg. Co., 398 Middlesex
*Whiting, Henry F., 16 Shattuck
Wight, M. G. & Co., 67 Middle
LYNN—Collins Hardware Co.
Harding, J. W. & Co.
Howe, Oliver R.
MANSFIELD—Fuller, W. C. Co.
MATTAPoisett—Dexter, A. M. (Est. of.)
MIDDLEBORO—Doane, J. & G. E.
MILFORD—Ellis, Clark & Son
Staples & Gould
NATICK—Durkee, Moreton
NEW BEDFORD—Babbitt Steam Specialty Co.
Dunham, Crawford L.
Hillman, F. G.
Knowles, Wm. H.
Lowe, S. C. Supply Co.
Manufacturers' Supply Co.
New Bedford Rubber Co.
Rankin & Arnold
Slocum & Kilburn
Tripp, Frank L.
NEWBURYPORT—Russell, Albert & Sons Co.
Thurlow, S. H. & Co.
NORTH ADAMS—Burlingame & Darby's Co.
NORTH CHELMSFORD—*North Chelmsford Machine & Supply Co.
ORANGE—Chase Turbine Mfg. Co.
Orange Hardware Co.
PALMER—Buck, E. A. & Co.
Whitcomb & Faulkner
PEABODY—Whidden, A. H. & Son
PITTSFIELD—Berkshire Mill Supply Co.
Hardware & Mill Supply Co.
ROCKLAND—Hall & Torrey
SALEM—Goodell, Jina
SOMERVILLE—Birch Bros.
SOUTHBRIDGE—Winter, G. C.
SPRINGFIELD—Baxter, Ernest W., 86
Chapman & Brooks, 71 Lyman Princeton
Dexter & Bowles
Foot, Homer & Co., Main c State
Graves, Geo. A. & Sons, 324 Main
Hampden Supply Co., 23 Sharon
Hannan & Finton, 19 Sharon
Hitchcock Supply Co. (Jobbers), 74 Dwight
Law, J. Douglas, 260 Main

Lewis, Chas. C. Co., 30 Lyman
Mill River Machine Co., 964 Main
Oliver & Howland Co., 214 Worthington
Russell, John W., 47 Taylor
Stacy, E. S. Machine Co., 41 Taylor
WYCOFF & LLOYD CO., 19 Worthington. (See adv. index, end of book)
TAUNTON—Pierce Hardware Co.
Presbrey-Field Co.
TURNERS FALLS—Webster, F. I.
WALPOLE—Rooney, Jno. B.
WALTHAM—Taylor & Percival
WARE—Sibley, J. B. & Son
WESTFIELD—Bryan, James H. Co.
WOBBURN—Thompson, L. W.
WORCESTER—Braman, Dow & Co. (of Boston), 7 Washington sq
Buck, E. A. & Co., Worcester & Casco
Burlingame, A. Co., 22 Cypress
Crawford & Co., 663 Main
Duncan & Goodell Co., 404 Main
Dixon, Geo. S., 224 Front
Fairbanks & Boynton Co., 49 Vine
*HUDSON BELTING CO. (See adv. index, end of book)
Marble, J. Russell & Co.
Mason Brush Works, 553 Main
*Warren, J. F. & W. H. Co., 44 Vine
Wilard, W. H. Co., 529 Main
Worcester Rubber Co., 324 Main

MICHIGAN.

ALPENA—Kilne, Lewis T.
Potter Bros.
AUSABLE—Richards, R. A.
BATTLE CREEK—Alert Pipe & Supply Co.
Brockett, L. B. & Son
Galloup, J. O.
BAY CITY—Blair Hardware & Supply Co.
Jennison Hardware Co. (Also Vessels)
BIG RAPIDS—Judson, C. P. & Co.
CADILLAC—Drury & Kelley Hardware Co.
Nordstrom, N. P.
CALUMET—Carlton Hdw. Co. (Also Mining)
CHEBOYGAN—Post, J. J. Hdw. Co.
DETROIT—Anderson, Kenneth Mfg. Co.
Boyer-Campbell Co., 64 Congress E
Century Supply Co., 439 Guoin
Conkling, S. P. (Pipe Coverings, etc.), 20 Atwater, E
Detroit Engineer Supply Co., 12 Atwater, W
Edwards, H. D. & Co., 16 Woodward av
FAIRBANKS, MORSE & CO. (of Chicago, Ill.), 89 Jefferson. (See adv. index, end of book)
Harvey's, A. Sons Mfg. Co. (Ltd.), 1st & Woodbridge
Johnson, Jno. & Co. (Pipe & Boiler Coverings), 368 Gratiot av
Muzzy-Lyon Co., 149 W. Larned
Palmer-Bee Co.
Ridgley, P. B., 14 Atwater E
Roc, J. A. & Co., 12 Atwater E
Sales & Broad Co., 76 Jefferson av
Strellinger, Chas. A. Co., 98 Bates
Walker Mfg. & Supply Co., 136 W Larned
Willebrands Machinery Co., 160 Larned W
Wing, J. T. & Co. (Leather), 19 Woodward av
Wormer, C. C. Mach'y Co. (Power Transmission Supplies, etc.), 99 W. Woodbridge
DOWAGIAC—Bishop Hardware Co.
Onen Hdw. Co.
ESCANABA—Delta Hardware Co.
FLINT—Sterner, Edwin Co.
GRAND RAPIDS—Barelay, Ayers & Bertsch Co., 93 Kent
Brandy, M. & Sons, 20 Alabama
Grand Rapids Supply Co., 4 Pearl
Hayden, J. M. & Co., 62 Pearl
*Studley & Barclay, 68 Pearl
HOUGHTON—Portage Lake Hardware Co. (Also Mine)
Swift, I. E. & Co. (Also Mine)
IONIA—Webber Hardware Co.
IRON MOUNTAIN—Rundle, A. J. (Also Mining)
IRONWOOD—Lesselyoung Hardware Co. (Also Mine)
ISHPEMING—Egan, Fred J.
JACKSON—Holton & Weatherwax Co. (Ltd.)
Smith & Winchester Hardware Co.
Warner Hdw. Co.
KALAMAZOO—Quinn Mfg. Co.
LANSING—Michigan Supply Co.
MANISTEE—Miller, Wm.
Wolters-Batey Co.
MARQUETTE—Manhard, M. R.
MASHALL—Bosley, Casper Hardware Co.
Casper Hdw. Co.
MENOMINEE—Emerson Corbin Supply Co.
Northern Hardware & Supply Co.
MUSKEGON—Howden, J. J. Co.
People's Hardware Co.
Rubinsky, Henry
Towner Hardware Co.
PAW PAW—Waters, H. C. & Co.
PETOSKEY—Reynolds & Bain

PONTIAC—Graham, W. W.
 PORT HURON—Meisel Mfg. Co.
 Port Huron Engine & Thresher Works
 REED CITY—Callaghan, M. M. Co.
 SAGINAW—Morley Bros. (Inc.)
 Saginaw Hardware Co.
 Saginaw Mfg. Co.
 United Supply Co.
 Wickes Bros.

ST. IGNACE—Kynoch, Chas. & Co.
 SHELBY—McKinnon Hardware Co.
 Rankin, A. J.
 SAULT SAINT MARIE—Chippewa Hardware Co.
 STANTON—Pierson, Jno. W. S. & Co.
 TECUMSEH—Satterthwaite Bros.
 Whittenack, D. L. & Co.

MINNESOTA.

CLOQUET—Fish, L. A. & Co.
 DULUTH—Crane Co. (of Chicago, Ill.), Est. 1855. (See adv. index, end of book)
 Duluth Hdw. Co.
 Kelley-How-Thomson Co.
 Marshall-Wells Hardware Co.

MINNEAPOLIS—Atkins, E. C. & Co., 122 Washington av

Central Supply Co., 312 Third, S
 Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)
 Engineering & Steam Supplies Co., 227 S 3d

FAIRBANKS, MORSE & CO., 220 Nicollet av. (See adv. index, end of book)

Gilmore, D. M. Co., 515 S 3d book)

Harris Machinery Co., 1025 Wash'n av, S. E.

Howell, R. R. & Co., 31st av, S. E. 4th

Janney, Semple Hill & Co., 1501 N. W.

Kelly, H. & Co., 225 3d, S. Main

Minneapolis Tubular Well Co., 311 3d av N

Morison W. K. & Co., 247 Nicollet av

National Brass & Metal Co., 256 3d av S

Northern Machinery Co., 217 S 3d

*Nott, W. S. Co.

Plant Rubber Co. (Leather, etc.), 320 1st av, N

Plumbing & Steam Fitting Supplies Co., 212 1st 214 N 1st

Roy Machinery Co., 212 1st 214 N 1st

Sanford, Chas. E. & Co., 202 Wash'n av, N

Satterlee, F. E. & Co., 215 2d av S

Willford Mfg. Co., 303 S 3d

MORA—McIlhargay, S. D.

ROCHESTER—Ellis & Edwards

ST. PAUL—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Crane & Ordway Co., 250 E 4th

Dwyer, John J., 317 Amer Nat. Bk. bldg.

FAIRBANKS, MORSE & CO., 234 E 3d. (See adv. index, end of book)

*Goodyear Rubber Co., 375 Sibley

Robinson & Cary Co., 4th c Wacanta

Rugg, H. P. & Co., 382 Jackson

Western Supply Co.

STILLWATER—Stillwater Machine Shop & Supply Co.

WINONA—Cone, R. D. Co.

MISSISSIPPI.

CLARKSDALE—Clark, Walter Hardware Co.
 Clarksdale Machinery & Sup. Mfg. Co.
 Delta Hdw. Co.

COLUMBUS—Cady, T. J.
 Columbus Machine & Foundry Co.
 Jacobs, F. M.

CORINTH—Adams, W. T. Machine Co.
 Corinth Engine & Boiler Works

CUDE—Cude Supply Co.

HATTIESBURG—Watkins Machine & Foundry Co.

JACKSON—McClelland, T. Hardware Co.
 Mississippi Fdry. & Mch'y Co.

MERIDIAN—Martin, E. J. & Sons
 Meyer-Neville Hdw. Co.

NATCHEZ—Baker & McDowell Hdw. Co.
 Feltus Bros.

Williams, Cliff, Machine Co.

VICKSBURG—Hoffman, Louis, Hdw. Co.
 Richardson, Le & Co.

Robinson's, B. J. Gin & Mach. Works

Schwartz & Stewart

Wright Bros.

YAZOO CITY—Crane-Hinman Hdw. Co.

MISSOURI.

CARTERVILLE—Carterville Boiler Works.
 Cole, H. C.

Jasper County Foundry & Machine Works

JOPLIN—Joplin Supply Co.

McNeal Machinery Co.

United Iron Work Co. (Also Mine)

KANSAS CITY—Burton, C. A. Machinery Co. (Belting, etc.)

Byrnes, Jas. W. Belting & Hose Co., 1320 W 11th

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

English Iron Works Co., 410 W 5th

FAIRBANKS, MORSE & CO., 1217 Union av. (See adv. index, end of book)

*Goodyear Rubber Co., 109 W 8th

Great Western Mfg. Co., 1221 Union av

Gustin-Bacou Supply Co., 1408 W. 11th

Kansas City Mfg. & Supply Co.

Kansas City Pump Co.

Lewis Supply Co., 1300 W 11th

Mercantile Lumber & Supply Co., 906 Baltimore av

Richards & Conover Hdw. Co., 5th c Wyandotte

Smith, Irving & Co., 327 Southwest Boul.

Strait, H. N. Mfg. Co.

U. S. Water & Steam Supply Co., 1315 W 12th

Young, W. B. Supply Co., 212 Delaware av

MALDEN—Malden Machine Works (Also Lumbermen's)

MOBERLY—Faessler, J. Mfg. Co.

ST. JOSEPH—Horgan Supply Co., 209 S 4th

Lewis Supply Co., 115 S 4th

McCord Rubber Co., 104 S 3d

ST. LOUIS—Barry-Wehmiller Machinery Co., 21st & Walnut

Branch Saw Co., 817 N 2d

BRODERICK & BASCOM CO. (Mine), 809 N Main. (See adv. index, end of book)

Brown Machinery Co., 934 N 1st book)

Byrnes, J. W. Belting & Hose Co., 914 N 2d

Caldwell Belting & Mfg. Co., 715 N 2d

*Capen Belting & Rubber Co., 413 N Main

Cornelius Mill Furnishing Co., 1119 N 6th

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Day Rubber Co., 415 N 4th

Dodge Mfg. Co., 507 N Main

Donovan Iron & Supply Co.

Essmuller Mill Furnishing Co., 605 S 6th

FAIRBANKS, MORSE & CO., 8th & Clark av. (See adv. index, end of book)

Fisher & Davis, 1024 N Main book)

Graton & Knight Mfg. Co., 720 N 2d

Handlan-Buck Mfg Co., 212 N 3d

Hartmann, E. Hide & Leather Co., 1905 Shenandoah av

Hynson Tool & Supply Co., 111 Market

Johnson-Robinson Machy. Co., 715 N. 2d

Johnson, Wm. C. Sons Mach. Co., 210 Washington av

Leschen, A. & Sons Rope Co. (Belting, Packing, etc.), 920 N Main

Manning, Maxwell & Moore, 305 Frisco bldg

*Missouri Belting Co., 120 S Commercial

Nelson, N. O. Mfg. Co., 10th & Chestnut

*New York Belting & Packing Co. (Ltd.), 411 N 3d

Norvell-Shapleigh Hdw. Co., 4th & Wash'n

Railway & Engineering Materials Co., 1811 3d, National Bank Bldg.

Reuter-Jones Mfg. Co., 1607 S. 3d

Rumsey, L. M. Mfg. Co.

Rumsey & Sikemeier, 1900 Pine

Shultz Belting Co., 402 Barton

St. Louis Belting & Supply Co., 509 S 4th

Streett, J. D. & Co., 809 N 2d (Also Mine)

Teuscher & Son Machinery Supply Co., 924 N 2d

Yerkes & Finan Woodworking Machine Co., 3143 N 9th

Zelnicker, Walter A., Supply Co.

SPRINGFIELD—Moore Mfg. Co.

Webb City & Carterville F. & M. Works (Mine)

MONTANA.

ANACONDA—Anaconda Copper Mining Co.

BUTTE—Anaconda Copper Mining Co.

Montana Hardware Co.

GREAT FALLS—Lowery Engineering Co.

HELENA—Holter, A. M. Hardware Co.

MISSOULA—Missoula Mercantile Co.

NEBRASKA.

LINCOLN—Cooper & Cole Bros.

Smith, R. L. Machine Works

OMAHA—Baum Iron Co., 1223 Harney

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (of Chicago), 1102 Farnham. (See adv. index, end of book)

Kennedy, J. R. dex, end of book)

Lehmer, Joseph R., 1218 Farnham.

Sunderland Roofing & Supply Co., 100 U. S. Supply Co., 901 Farnham Douglas

Western Electrical Co., 1807 Douglas

YORK—York Fdry. & Engine Works

NEVADA.

RENO—Nevada Hardware Supply Co (Also Mine)

Western Machinery & Mining Supply Co. (Also Mine)

NEW HAMPSHIRE.

BERLIN—Berlin Mills Co.

Burbank, E. A.

Parent, Arthur E.

CLAREMONT—Rand, Ball & King Co.

COLEBROOK—Stephens & Tewksbury

CONCORD—Concord Pipe Co.

Page Belting Co. (Belting, Hooks, Tools, etc.)

Thompson & Hoague Co.

EXETER—Exeter Machine Works

Lane, G. W. & C. A.

FRANKLIN—Kidder Machine Co.

KEENE—Spencer Hardware Co.

LACONIA—Huse, W. D. & Sons

Quinby, A. T. & Son

LAKEPORT—Cole Mfg. Co.

LANCASTER—Thompson Mfg. Co.

MANCHESTER—Cornish, E. P.

Felton, S. A. & Son Co. (Brushes)

Manchester Hardware Co.

Manchester Supply Co.

Varick, Jno. B. Co.

MILFORD—French, W. F.

Peirce, W. E. & Co.

NASHUA—Buxton & Allard

Grover File Co.

Nashua Hdw. Co.

PETERBORO—Walbridge & Taylor

PLYMOUTH—Corliss, Geo. H. & Co.

PORTSMOUTH—Chadwick & Trebethe

ROCHESTER—Rochester Foundry & Machine Works

SOMERSWORTH—Sweetser-Sanborn Co.

TILTON—Tilton Hardware Co.

WHITEFIELD—Stoughton Co.

NEW JERSEY.

ATLANTIC CITY—Allen, Philip E. & Co.

Currie Co., 1216 Atlantic av

BAYONNE—Bayonne Supply Co., 308 B'way

BRIDGETON—Bowen, R. L., 9 Atlantic st

ELIZABETH—Elizabeth Hardware Co.

GUTTENBERG—Herrmann, F. W., 32 Bull's Ferry Road

JERSEY CITY—Gibbons, Ernest A., Hudson & Morris

GRISCOM-SPENCER CO., Grand & Sussex. (See adv. index, end of book)

Jersey City Supply Co., 12 Mercer

Johnson, Henry Co., Gates av & Boul

Perkins, Arthur L., 233 Warren

MADISON—Force, Chas. C. & Son

NEWARK—Banister & Pollard, 206 Market

Coe, James A. & Co.

Crabb & Co., 3d av c 4th

Crane & Milligan Steam Fitters Supplies (Jobbers), 54-56 Mechanic

Gray, R., Jr., 190 Market

Johnson-Mandeville Co., 496 Broad

*Ladew, Edw. R. (Est. of), 307 Market

Macknet & Doremus, 796 Broad

Meier's, Jos. Sons, 306 Market

Mutual Supply Co., 10 Milton

Rising & Thorne Co.

Roc & Conover, 17 Mechanic

*ROSSENDALE - REDDAWAY Belting Hose Co., 32 Euclid av. (See adv. index, end of book)

Sheppard, Wm. S., 21 Lawrence

Walker, C. W., 274 Market

WALSH'S SONS & CO. (See adv. index, end of book)

NEW BRUNSWICK—Weigel, Philip, Jr.

ORANGE—Lindsley, Jno. N.

PASSAIC—New Jersey Engineering & Supply Co.

Robins Conveying Belt Co.

Smith, Abe, 200 Main

PATERSON—Ash, Henry M., 180 Market

Cleaver & Leather, 159 Madison

Doremus & Snyder, 66 Washington

Frost, Geo. T. C. Sons, 565 E 23d

Hall, I. A. & Co., 30 Hamilton av

Low, F. Eliot Co., 58 Fair

Mills, H. W. & Co., 59 Washington

Myers, Geo. A. & Co., 63 Washington

Natl. Mill Supply Co., 118 Railroad av

Patterson, Reed & Harness Co., 235 Ellison

Quinn Bros., 9 Fair

Rodgers, David G. Co., 198 Ellison

Smith, Abe, 51 Fair

Ulrich & Co., 60 Railroad av

Van Riper Mfg. Co., 14 Van Houten

Van Winkle, J. A. Co., 168 Main

Walder, Jacob, 188 River

PERTH AMBOY—Elizabeth Hardware Co.

McCormick, W. H.

TOMS RIVER—Berkeley Mfg. & Sup. Co.

TRENTON—Corbett-Taylor Co.
 *Crescent Belting & Packing Co.
 Crook, A. M. & Son
 Hunt, Jas. B. Mfg. Co.
 Katzenbach, F. S. & Co.
 Lanning, G. W.
 Warren, Balderston & Co.
 WEEHAWKEN—Berger, Edw. W. & Bro.

NEW MEXICO.

ALBUQUERQUE—Whitney Co. (Also Mine)

NEW YORK.

ALBANY—*Albany Belting & Supply Co., 372
 Delahanty, M. & Son, 26 Green B'way
 Manufacturers' Oil & Supply Co., 467 B'way
 Stoneman, M. G. & Son, 414 B'way
 Wing, Robert B. & Son, 385 B'way

AMSTERDAM—Gardiner, E. W. Co.
 Koib, Frank E.
 Larrabee, J. E.

AUBURN—Wheeler, S. B.
 BATAVIA—Russell & Palmer

BATH—Gould & Nowlen

BINGHAMTON—Babcock, Hinds & Underwood
 Gaylord & Elitapence Co.
 Morse, E. W. & Co.

BROOKLYN—(See N. Y. City, Borough of Brook-
 lyne)
 BUFFALO—Beals & Co., 46 Terrace

*BICKFORD & FRANCIS BELTING
 Co., 37 Pearl. (See adv. index, end of book)

BOSTON BELTING CO., 90 Pearl.
 (See adv. index, end of book)

Budd, T. A., 428 Ellcott sq
 Buffalo Belting Works, 18 Ellcott
 Buffalo Tool & Machinery Co., 176 Terrace
 Buffalo Mill Supply Co., 210 Main sq
 Buffalo Wholesale Hdw. Co., Wash c S
 Division

Bushnell, Clarence E., 63 Carroll
 Case, W. A. & Son Mfg. Co., 31 Main
 Enterprise Oil & Supply Co., 2 Ohio
 Fairbanks Co., 145 Seneca
 Goodfellow, J. H. Mfg. Co., 36 Ferguson av
 *Goodyear Tire & Rubber Co., 1719 Main
 Graton & Knight, 292 Main
 Heudee, A. M., Erie Co. Bank bldg
 Hoffeld, R. & Co., 61 Carroll

Iroquois Rubber Co., 45 Pearl
 McOutcheon, C. H., 18 Ohio
 Mahoney, Daniel, & Sons, 17 Main

Main Belting Co., 40 Pearl
 Niagara Machine & Tool Co.
 Niagara Railway & Mill Sup. Co.

Noye Mfg. Co., 50 Lakeview av
 Peerless Belting Co., 105 Main
 Plumbers' & Steam Fitters' Supply Co., 246
 Root, Neal & Co., 178 Main Main

Ruckel, J. H. & Son, 81 Main
 Squier, Geo. L. Mfg. Co., 490 B'way
 Walbridge & Co., 392 Main

Weed & Co., 95 E Swan
 Whittet, Barrett & Co., 59 Main

CANANDAIGUA—Peck, Geo. W. Co.

CARTHAGE—Strickland, J. E. & Son
 Wing, F. M.

COHOES—Cheydleur, J. B. Co.
 Kennedy, Thos. & Son, 33 Remsen
 Laughlin, Edwin B.

Sweet & Doyle
 CORTLAND—Gallup, Sherman & Lovell Hdw.

ELMIRA—Barker, Rose & Clinton Co. Co.

GLENS FALLS—Kalbfleisch, Theo. F.

GLOVERSVILLE—Batcheller, E. S. & Co.

McGuire-Tymson Co.

Sowle, J. E.

GOUVERNEUR—Loveland, M. E.

Williams, D. H.

GREENE—Lyon Iron Works

HAVERSTRAW—Lane, Chas. R.

Rose & Johnson

Strout, W. H.

HOOSICK FALLS—Easton, Rising & Worden

HORNELLVILLE—Rose, J. R. & Co.

HUDSON—Jones & Hardy

Murphy, E. W. & Co. (Textile)

Parker, Byron, 436 Warren

ILION—Newth, N. J. Hardware Co.

ITHACA—Treman, King & Co.

JAMESTOWN—Clarke Hdw. Co.

Rosenkrantz, E. & Co.

JOHNSTOWN—McGuire-Tymson Co.

KINGSTON—Burney, J. G., 510 Main

Canfield Supply Co.

Johnson, J. T.

LITTLE FALLS—Burney Bros.

Burrell, D. H. & Co. (For Creamery &

Cheese Factories, etc.)

Skinner & Oyston, 534 Main

Taylor, Jno. R. & Co.

LOCKPORT—Brown, E. S.

LONG ISLAND CITY—(See N. Y. City, Bor-

ough of Queens)

MECHANICVILLE—Safford, Henry D.
 NEWBURGH—Smth, W. L.
 NEW ROCHELLE—Dimock & Fink Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Dodge Mfg. Co., 217 37th
 Jacobs, Geo. P. & Co., 276 S 9th
 Kiley, Thos. W. & Co., 57 Grand
 Knight, Thos. G. Co., 52 Myrtle av
 McElraey & Hauck Co., 440 B'way
 Phillips, Doup & Co., 56 Pearl
 Simpson, J. S. & G. F., 26 Rodney
 Wickes, John C. Co., 1988 B'way
 Wohl, A., 612 B'way

Boroughs of Manhattan & Bronx.

NEW YORK—American Oil & Belting Co., 147
 Beals, H. H., 51 Cliff Cedar
 BEGGS, JAS. & CO., 109 Liberty. (See
 adv. index, end of book)
 Behrer & Co., 81 Beekman
 Beith & Reilly Co., 133 Lincoln av
 Benjamin, Geo. P., 81 Fulton
 Braunfels, Browning & Co., 1940 Park av
 Burnet Co., 121 Malden La.
 Bushnell, John S., 227 Fulton
 Callahan, Geo. & Co., 129 Front
 Chatwin, Alfred Supply Co. (Tools & Sup-
 plies), 149 Centre

Chase, Charles F., 39 Cortlandt
 Chase, H. M. & H. F., 50 Church
 Cooke Machinery Co., 114 Liberty

CORNEL & UNDERHILL, 47
 Beach. (See adv. index, end of book)
 Crane Co. (of Chicago), Est. 1855, 490
 Cherry. (See adv. index, end of book)

Dame & Townsend Co., Cliff & Fulton
 De Ronde, Frank S., 24 Stone
 Dienst, A. P. & Co., 2604 3d av
 Dimock & Fink Co., 220 E 125th

Dixon, Wm., 39 John
 Dodge Mfg. Co., Cedar & Washington
 DONEGAN & SWIFT, 6 Murray. (See
 adv. index, end of book)

Du Bois, F. N. & Co., 243 9th av
 Dunham, Carrigan & Hayden Co., 127
 Duane (Also Mine)

Eberhart, M. & Son Co., 76th & 1st av
 Fairbanks Co., Broome & Lafayette

FAIRBANKS, MORSE & CO., 30
 Church, New York. (See adv. index,
 end of book)

Fawcett, Hughes, 115 Franklin
 *Fay Belting Co., 3 Jacob
 Fitzgerald, M. J. Co., 58 Centre

Fox Bros. & Co., 126 Lafayette
 Frasse Co., 30 Church
 FRASSE, PETER A. & CO., 130 Worth.

(See adv. index, end of book)
 Froelich, A. (Est. of), 287 Pearl
 G. & W. MFG. CO., 26 Cortlandt. (See
 adv. index, end of book)

Garlock Packing Co., 133 Liberty
 Garrett, W. D., & Co., 136 Liberty
 General Supply Co., 40 John

Gibbons, Jno. V., 133 Greenwich
 Glauber, Sam S., 79th & 2d av
 Godfrey-Keeler Co., 70 Warren
 *Goodyear Rubber Co., 787 B'way

Graton & Knight Mfg. Co., 40 Day
 Greason Mfg. Co., 108 W. 99th
 Greene, Tweed & Co., 109 Duane

GRISCOM-SPENCER CO., 90 West.
 (See adv. index, end of book)

Hall Mfg. Co., John & Cliff.
 Harrison, John (Est. of), 169 South (Also
 Hauser, August R. 163 William Mine)

Howe, Alfred H., 75 Warren
 IRVING MFG. & TOOL CO. (J. F. Mc-
 Coy Co. Prop.), 169 Chambers. (See
 adv. index, end of book)

Katzenstein, Leopold & Co., 358 West
 Keasbey, Robt. A. Co., 100 N Moore
 Kessel, Henry A. Co., 54 South

*Ladew, Edw. R. (Est. of), 200 William
 Leonard & McCoy, 181 Wash'n
 Leschen, A. & Sons Rope Co. (Belting, Pack-
 ing, etc.), 90 West

McCoy, Henry J., Co. (Mfrs. Agt.), 65 Dey
 McCoy, Joseph F., 157 Chambers (Also
 Mine)

McGee, Alonzo H. Co., 106 Beekman
 McMann & Taylor, 104 John
 MacSorley Co., 44 Manhattan

Manning, Maxwell & Moore, 85 Liberty.
 Marine Mfg. & Supply Co., 158 South
 Mickelborough, G. W., 5 Dutch

Mill & Factory Syndicate, 415 B'way
 Miller & McLean, 120 Liberty
 Mitchell-Bissell Co., 227 Fulton

Motley, Thornton N. & Co., 50 Church
 Murray, R. & H. J., 24 Duane

Nason Mfg. Co., 71 Beekman
 Neal & Scott Co., 81 Warren
 *New York Belting & Packing Co (Ltd.), 91
 Chambers

Northern Engineering & Supply Co., 246
 Ogden, J. Edw. Co., 147 Cedar Water
 Olney & Warrin, 66 Centre

Parker, Stearns & Co. (Ltd.), 228 South
 Patterson Bros., 27 Park Row
 PATTERSON, GOTTFRIED &
 Hunter (Ltd.), 211 Centre

Pearson, J. H. Supply Co., 149 Centre
 Peck, W. E. & Co., 116 Broad
 Pfaff, George, 122 Centre

Pollock, Alex. Co., 203 West
 Quinlan, Jas. & Co., 120 Liberty
 Read, H. P. Lead Works, 160 E 56th

Roberts, Geo. I. & Bros., 471 4th av
 Robertson, Jas. L. & Sons, 48 Warren
 ROGERS, HENRY A. CO., 19 John

(See adv. index, end of book)
 Rumsey Pump & Machine Co., 75 Warren
 Saginaw Mfg. Co., 88 Warren

Saner, Nicholas, 534 W 58th
 Saunderson & Wright, 465 W B'way
 Schule, F. H. Co., 114 Liberty

*Schultz Belting Co. (of St. Louis, Mo.), 111
 Secor, A. W., 65 Fulton Chambers
 Sherman-Brown-Clements Co., 78 Murray

SIMMONS, JNO. CO., 110 Centre.
 (See adv. index, end of book)

Smith, G. & Son, 1858 Lexington av
 Starrett & Jones Co., 131 Worth
 Staten Island Supply Co., Richmond Ter.

Stephens & Conrow Co., 136 Liberty
 STRONG MACHINERY & SUPPLY
 Co., 48 Franklin. (See adv. index, end
 of book)

Stroh & Wilson, 420 W 42d
 Tucker Tool & Machine Co., 135 Greenwich
 Urquhart's, Jno. S. Son Co., 131 Liberty

Walls, Bray & Co., 83 Walker
 Watts, John M. Sons, 24 Duane
 Welch, Holme & Clark Co., 381 West

Wickes, John C., 290 Pearl
 Williams & Wells Co., 250 Fulton
 Wilson, O. C. & K. R., 78 Dey

Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 31 Vernon
 Petry, Jno. W., 63 Vernon av av

Borough of Richmond.

WEST NEW BRIGHTON—Staten Island Sup-
 ply Co.
 (End of New York City)

NIAGARA FALLS—Elderfield-Hartshorn Hard-
 ware Co.

NORTH TONAWANDA—Knapp-Cramer Hard-
 ware Co.

OGDENSBURG—Hackett, Patrick, Hardware
 Co.

ONEIDA—Cramer & Carpenter
 OSWEGO—Oswego Hardware Co., 175 W 1st
 Oswego Tool Co.

PALMYRA—Garlock Packing Co.
 PEEKSKILL—Naylor Bros.
 Wessel, W. F.

PLATTSBURG—Plattsburg Foundry & Ma-
 chine Co.

ROCHESTER—Barr & Creelman, 72 Exchange
 Belting & Machinery Co., 299 State
 *Cross Bros. & Co., 114 Mill

Davis, W. P. Machine Co., 130 Mill
 Ernst, Louis & Sons, 129 Main, East
 Falls, Frank H.

Forster Jno. M. Co., 42 Andrews
 Mathews & Boucher, 26 Exchange
 Sloan, Saml. & Co., 71 Exchange

Weaver, Palmer & Richmond, 12 Mill
 ROME—Jackson, Charles H.
 Townsend, Jno. Sons

Wardwell Hdw. Co.
 SCHENECTADY—Armer, Wallace
 Witbeck, Clark

SENECA FALLS—Rumsey & Co. (Ltd.)
 SYRACUSE—Burhans & Black, 136 Salina
 Fairbanks & Co., 251 W Fayette

Joy, Edw., 133 Market
 McCarty, Chas. C., 300 W Water
 McClure, R. C. Co., 329 S Clinton

Syracuse Supply Co. (Ltd.), 314 W Fayette
 Tobin, Wm. N., 407 S Clinton
 Welch & Kehoe, 214 Montgomery

Wood, C. H. Co., 401 S Clinton
 TROY—*Barnum Bros. Co., 179 River
 Duckrow, R. A., Boardman blk

Horan, Jas. J. & Co., 215 River
 Interstate Machinery Co.
 Klock, Danl., Jr., & Co., 10 B'way

*Pine & Co., 745 3d av
 *Troy Belting & Supply Co., 6 Grand
 Warren, J. M. & Co., 245 River

UTICA—Kavanaugh, Geo. W.
 Millar, Chas. & Son Co.
 Munson Bros. Co.
 Radel & Bowman
 Williams, J. H. Co., 6 Devereaux
 WATERTOWN—Bradley, Thos. W.
 Conde, W. W. Hardware Co.
 Hunting Co.
 Kalbfleisch Supply Co.
 Spratt & Corcoran & Foley Co.
 Weeks, John & Son Co., 22 Factory

NORTH CAROLINA.

ASHEVILLE—Asheville Hdw. Co.
 Asheville Supply & Foundry Co.
 CHARLOTTE—Alexander & Garsed
 American Machine & Mfg. Co. (Textile,
 *Charlotte Leather Belting Co. etc.)
 Charlotte Supply Co.
 Cramer, S. W.
 General Fire Extinguisher Co.
 *Ladew, Edw. R. (Est. of)
 Liddell Co.
 Mecklenburg Iron Works
 Robbins, O. A.
 Textile Mill Supply Co.
 Washburn, A. H.
 ELIZABETH CITY—Jones, D. M. Co.
 GOLDSBORO—Dewey Bros.
 GREENSBORO—Clymer, L. M.
 Greensboro Boiler & Machine Co., Greens-
 Greensboro Supply Co. boro, N. C.
 Odell Hardware Co.
 HENDERSON—O'Neill, M. J.
 NEWBERN—Gaskill Hardware & Mill Supply
 Hyman Supply Co.
 Jacobi, N., Hardware Co.
 Standard Supply Co., 10 Grace
 RAEFORD—Raeford Hdw. Co.
 RALEIGH—Raleigh Iron Works Co.
 SALISBURY—Salisbury Supply & Commission
 Co.
 SUMTER—Sumter Railway & Mill Sup. Co.
 WASHINGTON—Fulford, N. S. Hdw. Co.
 McKeel-Richardson Hardware Co.
 WILMINGTON—Hyman Supply Co.
 Wilmington Iron Works.
 WINSTON SALEM—Winston Mill Supply Co.

NORTH DAKOTA.

FARGO—Crane Co. (of Chicago). Est. 1855
 (See adv. index, end of book)
 Hall-Robertson Hdw. Co.
 Harrington, Hubert
 JAMESTOWN—Chenery & Anderson

OHIO.

AKRON—*Akron Belting Co. (Belting, Hose,
 Hardware & Supply Co. etc.)
 Ranney, Fred E.
 Rohrbacker & Allen, 66 S Howard
 ALLIANCE—Kay, Chas. Y.
 ASHTABULA—Crosby Hdw. Co.
 Mitchell Hardware Co.
 Paine & Ford Co.
 Turner & Smith
 BUCYRUS—Blair, E.
 Pickering, D. & Co.
 CAMBRIDGE—Branthoover & Johnston Co.
 (Also Mine)
 CANTON—Allman, W. H., Co.
 Canton Hardware Co.
 Canton Supply Co.
 Hartung, L. B. Co. (Also Mine)
 CINCINNATI—Acme Supply Co., 717 Main
 *American Oak Leather Co., Kenner &
 Dalton av
 Bell-Smith Factory Supplies Co., 717 Main
 Boebinger Hdw. Co. (also Hardware), 315 E
 Pearl
 *Bradford Belting Co., Walnut & 2d.
 Buchanan, Thos. & Co., 216 Elm
 Cattell, A. C. Co., 604 Vine
 Crane Co. (of Chicago). Est. 1855. (See adv.
 index, end of book)
 Devon, V. N. & Co., 506 Central av
 Dodge Mfg. Co., 128 W 3d
 Eagle Counter Leather Co., 416 E 8th
 Economy Machinery Co. (Jno. H. Flynn,
 Prop.), 428 E Pearl
FAIRBANKS, MORSE & CO., 307 Wal-
nut. (See adv. index, end of book)
 Fewlass-Leen Brass & Iron Co., 456 E 2d
 German-Russell Co., 222 E 9th
 Greenwald, I. E. Co., 720 E Pearl
 Johnson, Wm. T. Co. (Full Line)
 Kinsey, E. A., & Co., 331 W. 4th
 Kramlg, R. E. & Co., 234 E 6th
 McGowan, Jno. H. Co., 54 Central av
 Merkel Bros., Canal & Jackson
 Monarch Mill & Supply Co., 514 Main
 Morris, E. K. & Co.

Nuhring, Chas. & Bro., 907 Walnut
 Ohio Rubber Co., 612 Race
 Pickering Hardware Co., 5th & Main
 Queen City Supply Co., Pearl & Elm
 Randal Machinery Co., 1726 Powers
 Rowe & Trunell, 123 W 2d
 Straub Machinery Co., 1956 W 6th
 Thompson, Walter M., 835 W 5th
 Uihlein, Julius & Co., 134 W 2d
 Vulcan Supply Co., 120 Syracuse (Also
 Mine)

Wirthlin-Scallan Co., 331 W 3d (Also
 Mine)

CLEVELAND—BARTLETT, C. O. &
 Snow Co. (See adv. index, end of book)
 Bingham, W. Co., 142 Water
 Boston Woven Hose & Rubber Co. (of
 Boston, Mass.), 1551 Columbus rd., N. W.
 Cleveland Tool & Supply Co., 1515 Colum-
 bus rd., N W
 Consumers' Rubber Co. (Rubber, etc.), 1407
 W 6th, N. W.

FAIRBANKS, MORSE & CO., 99
Water. (See adv. index, end of book)

Garlock Packing Co.
 Ingraham, T.
 Lake Erie Nail & Supply Co., 412' Frank-
 fort av. (Also Mine)

McIntosh Hardware Corp'n., 116 Superior
 Man-Sherwood Supply Co.
 National Supply Co., Euclid av
 Ohio Rubber Co., 725 St. Clair av., N. E.

PATTISON, W. M. SUPPLY CO.,
 197 St. Clair av. (See adv. index, end of
 book)

Philpott, Talcott, Chase Co. 1364 W 3d
 Republic Belting Co., 1616 W 3d (Also
 Mine)

STRONG, CARLISLE & HAMMOND
 Co., 336-344 Frankfort av., N. W. (See
 adv. index, end of book)

White Tool & Supply Co., 1313 W 6th, N. W.
 Williams, R. A. & Co., 1614 Columbus rd.
 N W

Worthington, Geo. Co., 802 St. Clair av

COLUMBIANA—Enterprise Mfg. Co. (Sawmill)

COLUMBUS—Case Mfg. Co., Curtis av N St.
 Clair av

Columbus Brass Co., 212 N Front (Also
 Mine)

Columbus Mill & Mine Supply Co. (Also
 Mine), 75 N Front

Columbus Supply Co., 161 N High
 Engineers' & Plumbers' Supply Co., 150 N 3d
 Keystone Supply Co., 517 Dennison av

Miller, Wm. H. Co., 80 W Broad
 Osborne & Sexton Machinery Co., 243 N
 Potts, B. D., 33 E Spring Front
 Potts, W. B. Machinery & Supply Co., 180
 W Broad

Sackett Mine Supply Co., 77 E Long
 Scioto Valley Supply Co., Long & 3d (Also
 Mine)

Smith Bros. Hdw. Co., 32 W Chestnut
 Standish Machine & Supply Co., Columbus, O
 Tallmadge Hardware Co., 147 N High
 Weiman Machine Works, 21 N Scioto st

CONNEAUT—Mitchell Hardware Co.

DAYTON—Gump, Charles A.

Larkin, M. D. Supply Co.
 Patterson Tool & Supply Co.

DEFIANCE—Kehnest, W. A. Co.

EAST LIVERPOOL—East Liverpool Foundry,
 Machine & Supply Co.

Milligan Hardware & Supply Co.

FINDLAY—Adams Bros. Co.

Findlay Foundry & Machine Co.
 Went, C. H.

HAMILTON—Hamilton Supply Co.

Larkin, M. D., Supply Co., 325 Market

KENTON—Cantwell, Kinsey & Elder

MARIETTA—Frick & Lindsay Co.

MASSILLON—Oberlin, Charles E.

PORTSMOUTH—Hibbs Hardware Co.

RAVENNA—Waller, C. M.

ST. MARYS—Jasperson, Wm.

St. Marys Machine Co.

SALEM—Salem Hardware Co.

SANDUSKY—Sandusky Plumbing & Boiler Co

SPRINGFIELD—Springfield Hdw. Co., 36 E
 Toledo—Arbuckle, Ryan Co. (Inc.) Main

Auburndale Hardware Co.

Bostwick-Braun Co.

Grosswiller, Jos. F. Supply Co.

Hardy & Dischinger Co.

Heavy Hardware Co.

Laskey, Elmer A.

National Supply Co.

Star Hardware Co.

Stollberg Hardware Co., 605 Cherry

Toledo Belting Co.

Toledo Rubber Co.

Toledo Saw Co.

Wilcox, M. I. Co., 210 Water

YOUNGSTOWN—Stambaugh-Thompson Co.

Wilkins-Leonard Hardware Co.

OKLAHOMA.

CHIKASHA—Badger Engine Works
 Peacock, J. D.
 CLEVELAND—American Iron & Supply Co.
 FREDERICK—Frederick Mfg. Co.
 GUTHRIE—Southwestern Iron Co.
 McALISTER—New State Iron & Supply Co.
 Union Iron Works (Also Mine)
 MUSCOGEE—Reeves-Mayberry Machy. Co.
 Union Machine & Foundry Co.
 NOWATA—Nowata Hardware & Supply Co.
 OKLAHOMA CITY—Crane Co. (of Chicago). Est.
 1855 (See adv. index, end of book)
 Sherman, N. S., Machinery Co.
 Tappan, Charles A.
 Tomlinson-Mideke Co.
 PURCELL—Berlinger Hardware Co.
 SAPULPA—Boviard Supply Co.
 TULSA—Oklahoma Iron Works

OREGON.

ALBANY—Albany Iron Works (Inc.)
 BAKER CITY—Basche-Sage Hardware Co.
 GRANITE—Lindsay, Guy L. (Also Mine)
 GRANTS PASS—Grants Pass Hardware Co.
 (Also Mine)
 Hair-Riddle Hardware Co. (Also Mine)
 PORTLAND—Arthur, J. M. & Co., ft B Taylor
 Atkins, E. C. & Co., 60 1st
 Atkins, E. C. & Co., 60 1st
 Avery & Co., 48 3d
 Crane Co. (of Chicago). Est. 1855. (See adv.
 index, end of book)
FAIRBANKS, MORSE & CO., 1st
& Stark. (See adv. index, end of book)
 Gauld Co., 14 N 1st
 Gillen-Chambers Co., 66 Front, N
 Goodyear Rubber Co., 4th & Pine
 Hammond Mfg. Co., Kamm bldg (Also
 Mine)
 Kline, M. L.
 Marshall-Wells Hardware Co. (Also Mine)
 Mitchell, Lewis & Staver Co., 14th & Thur-
 man
 Nott-Davis Co.
 Pacific Coast Rubber Co., 41 1st
 Portland Iron Works, 495 Northrup
 Simonds Mfg. Co. (of Seattle, Wash.)
 Tatum & Bowen, 29 1st
 Western Supply Co.
 Williamet Iron & Steel Works, 4th & Gilson

PENNSYLVANIA.

ALLENTOWN—Albright, Son & Co.
 Allentown Reed, Harness & Mill Supply Co.
 Grammes, L. F., & Sons
 Hersh, F. Hardware Co.
 Taylor, William H. & Co.
 Young, M. S. & Co.
 ALTOONA—Standard Supply & Equipment Co.
 (Also Mine)
 ASHLAND—Buck, Peter E. & Sons (also
 Mine)
 BEAVER FALLS—Brierly, F. F.
 Davidson, W. J.
 BLUE BALL—Shirk, P. E.
 BRADFORD—Emery Hardware Co.
 Oil Well Supply Co.
 BUTLER—Campbell, J. G. & W.
 CARBONDALE—Clover Leaf Mfg. Co.
 CATASAGUA—Fuller Oil & Supply Co.
 Griffin Bros.
 CHESTER—Harper Hardware Co.
 Howland, Wm. O.
 Nuttall, Geo.
 Riley, Benj. F.
 Wetherill, Robt. & Co.
 Wilby, Thos.
 CLEARFIELD—Clearfield Machine Shops
 Dufton Hardware Co.
 Johnston Bros.
 Powell, Frank J. (also Mine)
 CONNELLSVILLE—Schell Hardware Co.
 (also Mine)
 CONSHOHOCKEN—Bate, Wm. T. & Son
 CORRY—Ajax Iron Works
 Barlow Hardware Co.
 DANVILLE—Danville Foundry & Machine
 Co.
 DUBOIS—Dubois Iron Works (Also Mine)
 EASTON—Easton Foundry & Machine Co.
 Macan, Jr., Co. (Inc.)
 ERIE—Erie Mfg. & Supply Co.
 Northwestern Pipe & Supply Co.
 United Hardware & Supply Co.
 HARRISBURG—Compton, S. R.
 Gilbert, Henry & Son
 McKillips, A.
 Mather, Edmund
 HAZLETON—Barber, J. F. & Co.
 Bright, J. C. & Co.
 Hazleton Machinery & Supply Co. (Also
 Mine)
 Woodring, Jeremiah & Co. (Also Mine)
 INDIANA—Keystone Supply Co.

JOHNSTOWN—Johnstown Supply House (Ltd.)
Swank Hdw. Co. (Also Mine)

KANE—Kane Supply Co.

KINGSTON—Roat, A. J. (Also Mine)

LANCASTER—Central Machine Works

Relly Bros. & Raub

Sheet Metal & Supply Co.

Steinman Hdw. Co.

LEBANON—Krause, Geo. Hardware Co.

LEWISBURG—Dreischach's, C. Sons

MEADVILLE—Gill, D. A.

Lord, L. L. Co.

Rhodes, I. M. & Co.

MUNCY—SPROUT, WALDRON & CO. (See adv. index, end of book)

NEW CASTLE—Dickson & Co.

Smith, C. E. Hdw. Co.

Smith, Hutton & Klrk Co.

Welch Hardware Co.

NORRISTOWN—*Keystone Leather Belting
Quillman, Benjamin Works

OIL CITY—Logan, Robert

OSCEOLA MILLS—Stein, S. B. (Mine Supplies a Specialty)

PATTON—Central Supply Co. (Also Mine)

PEN ARGYL—Correll, R. S. (Also Mining Supplies)

PHILADELPHIA—*Alexander Bros., 406 N. 3rd

Army, C. W. & Son, Trenton & Somerset
Belfield, H. & Co. (Packing, Hose, Cement, etc.), 435 N Broad

Bell, H. E. & Co., 201 Church

Billany & Cochrane, 527 Commerce

Billington, Jas. H. & Co., 113 Chestnut

Blakeley, Jno. & Son, 1085 Gtn av

Bond Foundry & Machine Co., 520 Arch

Bowen & Martin, 112 S 2d

Bowman, H. L. & Co., 31 S 4th

Boyd, Jas. & Bro. (Leather, etc.), 14 N 4th

Bullock, C. K., 1357 Ridge av

Chase, Charles F., Phila. Bourse

Cloud Mfg. Co., 1214 Ridge av

Crane Co. (of Chicago), Est. 1855, 220 S 5th.
(See adv. index, end of book)

Deronde, Frank S. Co., 221 N 4th

De Zouche, Hanson & Co., 60 N. Second
(also Mine)

Diamond Textile Mch. Wks., C. & West-

Dodge Mfg. Co., 535 Arch moreland

Etsweiler, Wm. (Leather, etc.), 230 N 3d

Fairbank Co., 701 Arch

Elfer & Beatty, Front st. & Lehigh av.

*Graton & Knight Mfg. Co., 132 N 3d

GRISCOM-SPENCER CO., ft. Washing-
ton av. (See adv. index, end of book)

Gwilliam Supply Co., 1339 Ridge av

Haines, Jones & Cadbury Co., 1136 Ridge

Hanson, Jos., 179 W Lehigh av

Houghton, E. F. & Co., 240 W Somerset

Jefferson, Edw. & Bro., 127 S 2d

Jenkins Bros., 133 N 7th

Klinkerter & Sheppard Co., 4669 Frankford

*Ladew, Edw. R. (Est. of) 14 S 3d av.

Latimer, R. L. & Co., 24 N Front

Latta, John S. & Co., 1227 Arch

Leatherold Mfg. Co., 923 Arch

Levick's, Richard Son & Co. (Rubber Belt-
ing, Hose, Packing, etc.), 720 Chestnut

Maddock & Co., 40 N 6th

*Main Belting Co., 1219 Carpenter

Maneely, John, 309 Arch

Manning, Maxwell & Moore, 721 Arch

Manufacturers' Supplies Co., 418 Arch

Mitchell, F. A., 20th & Callowhill sts

Montgomery Bros., 48 N Front

Mulconroy Co. (Inc.), 722 Arch

Naumann, Wm., 4324 Germantown av

Pancoast, Henry B. & Co., 243 S 3d

Paulus, Jos. & Co., 2507 Potter

Pechin, Jno. W., 31 S 3d

Penn Rubber Co., 615 N Broad

Philadelphia Textile Mch. Co.

Powell, Clouds & Co. (Tools & Supplies)

Quaker City Rubber Co. (Chas. A. Daniel,
Prop.) (a full line, also Mfrs. of Daniel's
P. P. P. Packing), 629 Market

Rainear, C. J. & Co., 518 Arch

Resten, Clement Co., 130 N 2d

*Rhoads, J. E. & Sons (Leather, etc.), 12

Rich, J. & G., 126 N 6th N 3d

Savill, Thos. & Sons, 11th & Wood

Schade, Albert, 56 N 2d, Philadelphia, Pa.

*Schleren Chas. A. & Co., 226 N. 3d

Sees & Faber, 2008 N. Front

Shannon, J. B. & Sons, 816 Chestnut

Shultz Belting Co., 116 N. 3d

Smith, Jas. & Co., C. nr. Westmoreland

Smith & Furbush Machine Co., N. Hancock

Spaulding & Metcalf, 532 Arch c Somerset

Standard Supply & Equipment Co. (Also

Standing, Samuel Wire), 1710 Market

Steel Heddle Mfg. Co. (Textile), 2110 W

Allegheny av

Townsend, Isaac, 332 Heed bldg

Vance, Jas. M. & Co., 211 Market

Walters, W. P. Sons, 1123 Market

Watt's, Jno. M. Sons, 232 N 3d

Williamson & Cassidy, 526 Market

Wise & Bailey, 108 Walnut

PHILLIPSBURG—Gills, John D. Sons (Mine)
Gowland Mfg. Co.

PHOENIXVILLE—Benjamin, N. H. Co.

PITTSBURG—Acme Sanitary Co., 219 Water

Balrd, W. Machinery Co. (also Mine)

Bindley Hardware Co., 429 7th

Briggs Machinery Co., 238 2d av.

Bowman Supply & Mfg. Co., 899 Main

Brown & Zortman Machinery Co., 2525

Liberty

Carlini Machinery & Supply Co., North Side

Childs, H. L. & Co., 249 Water

Dodge Mfg. Co., 337 2d

Fairbanks & Co., 316 2d av. (also Mine)

Flocker, Jno. & Co., 957 Liberty av

Frick & Lindsay Co., 109 Wood

Garlock Packing Co.

Gem Mfg. Co., Spruce nr 33d

Green, L. A. Co., Park bldg.

Harris Pump & Supply Co., 320 2d av

*Hartley-Rose Belting Co., 634 Smithfield

Hunkill, Hunter Co., 311 1st av

Johnston, Morehouse & Dickey (Also

Mine), 106 Market

Kelly & Jones Co., 135 Water

Keystone Mine Supply Co. (Mine)

*Ladew, Edw. R. (Estate of), 112 Market

Lindsey, J. C. Hardware Co.

Logan-Gregg Hdw. Co., 125 7th

Messenger-Pringle Co., 23 Terminal Way,

OIL WELL SUPPLY CO. (Also Mine),

215 Water, Pittsburg, Pa. (See adv. in-

dex, end of book)

Phillips, J. & H., 136 6th

Phillips Mine & Mill Supply Co. S S

PITTSBURGH GAGE & SUPPLY CO.

(Also Mine), 30th & Liberty av. (See

adv. index, end of book)

Pittsburg Rubber & Leather Co., 14 Wood

Pittsburg Supply Co., 439 Water

*Revere Rubber Co., 2 Wood

Shannon Engineering & Contracting Co.

(Railroad Supplies of All Kinds), House

bldg.

Somers, Fittler & Todd Co., 327 Water

Speck, Marshall & Co., 314 2d av.

Standard Scale & Supply Co., 243 Water

Standard Supply & Equipment Co. (Also

Mine), 1151 Liberty av

Trautman, C. Co.

Turner, Chas. A. (Mill, Mine & Railroad Sup-

plies), 14 Market

Wolfe-Lane Hdw. Co.

Woodwell, Jos. C., 201 Wood

POTTSTOWN—Fegely, J. & Son

POTTSVILLE—Bright & Co.

Pottsville Supply Co. (Principally Mine)

PUNXSUTAWNEY—Brown Hardware Co.

READING—Bard Hardware Co., 800 Penn

Bright & Co., 504 Penn

Connard, Henry (Est. of)

Greth Machine Works (Inc.), 627 Franklin

Obold, J. H. & Co., 3d & Penn.

Reading Scale & Machine Co., Front &

Chestnut

Stichter Hdw. Co. (Ltd.), 505 Penn.

RIDGWAY—Ridgway Mfg. Co.

SCRANTON—Bittenbender & Co., 126 Frank-

lin av

Foot & Becker

Hunt, Alex. E.

Lackawanna Supply Co.

Levi, Beno Co. 409 Penn av

Maloney Oil & Mfg. Co.

Potter, L. B. & Co., 424 6th

Scott, Chas. B., 119 Franklin av

*Scranton Supply & Machinery Co. (Also

Mine)

SHARON—Fruit-Ohl & Co. (Also Foundry &

Blast Furnace Supplies)

SOMERSET—Schell Hardware Co. (also Mine)

TITUSVILLE—Kernochan & Co.

United Hardware & Supply Co.

Young, E. R. & Sons

TUNKHANNOCK—Billings, Paul & Sons

UNIONTOWN—Johnson Machine Co.

Uniontown Hardware & Supply Co. (also

Mine)

WARREN—Pickett Hdw. Co.

WILKES-BARRE—Penna. Supply Co.

Phelps, Lewis & Bennett Co.

WILLIAMSPORT—Darling Pump & Mfg. Co.

(Ltd.)

Keeler, B. Co.

Kline & Co. (also Mine)

Link, Jas. H. Machinery Co.

National Foundry & Supply Co.

*Slate's, Geo. Sons

Valley Iron Works

YORK—Farquhar, A. B. Co. (Ltd.)

Small, P. A. & S. Co.

Spangler Mfg. Co.

York Engineering Co.

RHODE ISLAND.

EAST PROVIDENCE—Humes Mfg. Co.

PAWTUCKET—Bray, A. F. & F.

Blackstone-Reed Harness Co.

Duffy Bros. Hardware Co.

Easton & Burnham Machine Co.

Toole, Wm. K. Hardware Co.

*Weatherhead, Thompson & Co.

PROVIDENCE—Allen & Reed (Inc.), 178 Dor-
rance

*American Supply Co., 135 Washington

Barker, Chadsey & Co., 38 Westminster

Brown Bros. Co., 62 Ex. pl.

Brown, S. R., 54 S Water

Chase, F. A. & Co., 258 W. Exchange

Church, E. C. & Co., 5 Eddy

Conlin, J. C., 275 W. Exchange

General Fire Extinguisher Co., 34 S Water

Godwey, J. A., Reed & Harness Mfg. Co.,

40 Clifford

Hawkes, J. Grant Co., 16 Exchange pl.

Hope Rubber Co. (All Kinds of Rubber

Goods, etc.), 97 Westminster

Parkinson, Edward

Providence Mill Supply Co., 79 S Main

Providence Belting Co., 27 Charles

Rhode Island Supply & Engineering Co.

Ross, W. D., 220 Eddy

Spencer, Wilton H., 7 Ex. pl

Standard Mill Supply Co., 39 Ex pl

Talcott, W. O., 91 Sabln

Taylor, Chas. F., 15 Custom House

Thomas & Lowe Machinery Co., 66 W Ex-
change

Thornton Machinery Co., 23 Exchange pl

Union Hardware & Electrical Supply Co.,

109 Westminster

U. S. Mill Supply Co., 60 S Water

Vanstone Mfg. Co., Harrison c Westfield

WOONSOCKET—Darling, Chas. H.

Farnum, J. B. Co.

Getchell, S. S. & Son, 44 S Main

Greene, Henry M., 6 S Main

Woonsocket Machine & Press Co.

Woonsocket Supply Co., 125 S Main

SOUTH CAROLINA.

ANDERSON—Sullivan Hardware Co.

CHARLESTON—Bird, W. M. & Co.</

Ellis, Wm. C. & Sons, 245 Shelby
 Kenredy, J. D. Co.
 Lee Bros.
 Livernore Iron & Supply Store
 Pidgeon-Thomas Iron Co.
 Reed & Duecker
 Reichman-Crosby Co., 209 S Main
 Towner & Co.
NASHVILLE—Bouchard, John, & Sons Co.
 Bown, T. A. & Co.
 Dale, John P.
 Fall, J. H. & Co.
 Gray & Dudley Hdwe. Co.
 Keith, Simmons & Co.
 Nashville Plumbers' & Mill Supply Co.
 Southern Mill, Mine & Railway Supply Co.
 Stewart & Bruckner (Also Mine)
 Union Machinery & Supply Co.
TULLAHOMA—Lawson, T. D.
 McCoy, H. & Co.

TEXAS.

AUSTIN—Gossard, A. R.
 Spaulding Bros.
 Tips, Walter
BEAUMONT—Southern Car Mfg. & Supply
 Wilson, E. L. Hdwe. Co. Co.
BRENNHAM—Roff & Miller
DALLAS—Briggs Weaver Machinery Co.
 Continental Gln Co.
 Crane Co. (of Chicago), Est. 1855. (See adv.
 index, end of book)
 Graber, H. W. Machinery Co.
 Keating Implement & Machine Co.
 Wolfe, B. F. & Co.
DENISON—Hall-Leeper Hardware Co.
EL PASO—El Paso Foundry & Machine Co.
 (Also Mine)
 Krakauer, Zork & Moyle (Also Mine)
 Mine & Smelter Supply Co.
 Monsen, Gus & Co.
FORT WORTH—Axtell Co.
 Gamer Co.
 Southern Trading Co.
 Texas Mfg. Co.
GALVESTON—Blum Hardware Co.
 Brown, J. S. Hardware Co.
 Shearn, Paul, Sanitary Plumbing & Mfg.
 Co.
HOUSTON—Barden Electric & Machinery Co.
 Berling-Cortes Hardware Co.
 Heltman, F. W. & Co.
 Peden Iron & Steel Co.
 Smith, Howard Co.
JEFFERSON—Myer, Eugene
 Torrains Mfg. Co. (Also Mine)
LUFKIN—Lufkin Foundry & Machine Co.
ORANGE—Sabine Supply Co.
PALESTINE—Dilley, George M. & Son
PARIS—Bettes, H. S., Hardware Co.
 Collins & Dulancy
SAN ANTONIO—Alamo Iron Works
 Collins-Gunther Co.
 San Antonio Mach. & Supply Co.
SHERMAN—Hardwicke-Etter Hdwe. Co.
TYLER—Connally, Walter & Co.
WACO—June, D. & Co.
 McLendon, Duncan & Co.
 Strauss, Ed.

UTAH.

OGDEN—Lowe, Geo. A. Co. (Also Mine)
SALT LAKE CITY—Crane Co. (of Chicago).
 (Est. 1855) (See adv. index, end of book)
FAIRBANKS, MORSE & CO., 218 S
 W Temple. (See adv. index, end of book)
 Hutchinson, C. P.
 Salt Lake Hdwe. Co. (Also Mine)

VERMONT.

BARRE—Reynolds & Son
 Smith, Whitcomb & Cook Co.
BURLINGTON—Manson Hdwe. Co.
 Strong Hdwe. Co.
CHESTER DEPOT—Davis, E. J.
 Stearns, F. H. Mfg. & Supply Co.
DERBY LINE—Rock Island Hdw. Co.
MONTPELIER—Deming Hdwe. Co.
RUTLAND—Holmes Iron Works
 Lincoln Iron Works
 Steam Stone Cutter Co.
SPRINGFIELD—La Fountain-Staples Co.
 Parks & Woolson Mach. Co.
ST. JOHNSBURY—Hooker, O. V. & Son
WHITE RIVER JUNCTION—Nott, H. L.
WINDSOR—Stone-Payson Co.
WINOOSKI—Stevens Machine Co.

VIRGINIA.

FARMVILLE—Farmville Mfg. Co.
LAWRENCEVILLE—Sledge & Barkley
LYNCHBURG—Ainslie & Martin Co.
 Barker-Jennings Hdw. Co.
NORFOLK—Bowen, Jos. E.
 De Haven-Dawson
 Lumley-Dodson Co.
 Mayer & Co.
 Perry, Theo. A.
 Porter & Moore Co.
 Price, S. M. Machinery Co.
 Southern Supply Co.
 Taylor, W. H. & Co.
 Walke, Henry Co.
 Westbrook, Jno. D.
 Whaley, W. M., & Co.
 White, E. V. & Co.
PETERSBURG—Leonard, Charles
 Stockell-Myers Hdw. Co.
 Stratton-Bragg Co.
PULASKI—Pulaski Hdw. Co.
 Trolinger-Price Hardware Co. (Also Mine)
RICHMOND—Call-Watt Co.
 Commonwealth Supply Co., Chamber of
 Commerce bldg
 Frischkorn, Hunter B., 812 E Cary
 Gordon Metal Co., 1426 E Carey
 Lindsay, Jno. L., 1417 E Main
 McGraw, Jas., 1442 E Main
 Southern Railway Supply Co., 1323 E Main
 Stansill, A. C.
 Sydnor Pump & Well Co.
ROANOKE—Nelson Hardware Co. (Also
 Roanoke Hardware Co. (Also Mine) Mine)
 Smith, Courtney Co., 1418 E Clay
 Smith-Courtney Co.
 Victoria Metal Co.
SALEM—Salem Foundry & Machine Works
SUFFOLK—Folk, E. L. & Co.

WASHINGTON.

ABERDEEN—Griggs Hardware Co.
 Vulcan Iron Works (Also Mine)
BALLARD—Hopkins, Paul & Son
BELLINGHAM—Morse Hardware Co.
CENTRALIA—Gillam, H. C.
EVERETT—Agnew Hdw. Co.
 Bayside Iron Works
 Pacific Hardware Co. (Also Mine)
 Sumner Iron Works (Inc.)
OLYMPIA—Mason, C. Z.
SEATTLE—Adair, Geo. B., 309 Occidental av
 Atkins, E. C. & Co., 313 2d av S
 Boole, Geo., Railroad & Occidental av
 (Also Mine)
 Bowles Company, 107 Jackson
 Caldwell Bros. Co.
 California Saw Works
 Crane Co. (of Chicago), Est. 1855. (See
 adv. index, end of book)
FAIRBANKS, MORSE & CO., 309 Occi-
 dental av. (See adv. index, end of book)
 Fox, J. E. Saw Works, 828 1st av S
 Gorham Rubber Co.
 Hallide Machinery Co., 315 2d S
 Hambach, A. Co., 305 1st av, S
 Meese & Gottfried Co.
 Mill & Mine Supply Co.
 Moore, Chas. C. & Co., 218 2d av S
 Pacific Iron & Steel Co., 929 Ewing
 Puget Sound Machinery Depot
 Rubber Mfg. & Distributing Co.
 Schwabacher Hardware Co., 1st av & Jack-
 son st (Also Mine)
 Seattle Hardware Co., 501 1st av
 Simonds Mfg. Co.
 Tolma, R. R. & Co., 912 1st, S.
 Union Machinery & Supply Co., 201 Jask-
 son
 United Iron Works
 Vulcan Iron Works Co., 5th av & Seattle
 Washington Rubber Co., 216 Jackson boul
 Western Machinery Co.
 Zelnicker, W. A. Supply Co., 316 Occidental
SPOKANE—Armstrong Machinery Co. av
 Arnold-Evans Co.
 Burnard Mfg. Co.
 Bradley Engineering & Machinery Co. (Also
 Mine)
 Crane Co. (of Chicago), Est. 1855. (See
 adv. index, end of book)
FAIRBANKS, MORSE & CO. (of
 Chicago, Ill. (See adv. index, end of
 book)
 Holley, Mason, Hardware Co. book)
 Jensen-King-Byrd Co.s.
 McGowan Bros.
 Mitchell, Lewis & Staver Co.
 National Iron Works
 Nott-Atwater Co.
 Spokane Hardware Co.
 Syphers Machinery Co.
 United Iron Works

TACOMA—Caldwell Bros. Co. (of Seattle,
 Wash.)
 Crane Co. (of Chicago, Ill.), Est. 1855.
 (See adv. index, end of book)
 Hunt & Mottet Co.
 Puget Sound Metal Works
 Tacoma Machinery & Supply Co.
 Walsh & Gardner
 Washington Machinery Depot
 Washington Rubber Co.

WEST VIRGINIA.

BLUEFIELD—Bluefield Hardware Co. (Also
 Miller Supply Co. (Also Mine) Mine)
CHARLESTON—Burlew, N. S.
 Capitol City Supply Co. (Also Mine)
 Charleston Hdw. Co.
 Goshorn Hardware Co.s.
 Meyer Bros.
 South Side Foundry & Machine Works
 (Also Mine)
CLARKSBURG—Clarksburg Supply Co.
 Osborn's, J. F. Sons
 West Virginia Mine Supply Co.
 Williams & Davisson Co.
ELKINS—Baldwin-Chandler Supply Co.
FAIRMONT—Jacob & Hutchinson (Principally
 Mining)
GRAFTON—Caveny, J. F. Mining)
HUNTINGTON—Banks' Supply Co. (Also
 Jarvis Machinery & Supply Co. (Mine)
 Miller Supply Co. (Also Mine)
NEW CUMBERLAND—Davis-Price Foundry
 & Machinery Co.
PARKERSBURG—Parkersburg Machine Co.
 Stiles Foundry & Supply Co.
 Turner, C. H. Co.
 Union Hardware Supply Co.
WESTON—Dancer Mfg. & Supply Co.
WHEELING—Berry, Chas. Supply Co.
 Howe, A. D. Machinery Supply Co.
 Otto-Heiskell Hardware Co.
 Spears & Riddle
 Trimble & Lutz Supply Co. (Also Mine)

WISCONSIN.

APPLETON—Schlafer Hardware Co.
 Tesch, William
ASHLAND—Bretting, C. G. Mfg. Co.
EAU CLAIRE—Brooks, S. C. (Est. of)
 Eau Claire Mill Supply Co.
 Hobbs, W. H. Supply Co.
FOND DU LAC—Dallman & Cooper Supply Co.
GREEN BAY—Kimball, Chas. T.
 Murphy Supply Co.
LA CROSSE—Kroner Hardware Co. (Inc.)
 La Crosse Plumbing Supply Co.
 Roosevelt, W. A. Co.
 Tausche, V. Hardware Co.
MADISON—King & Walker Co.
MARINETTE—Westland, August
MILWAUKEE—American Machinery & Con-
 struction Co., 103 W Water
 Badger Machinery Co., 140 W Water
 Goodyear Rubber Co., 382 E Water
 Gross, Phillip Hardware Co., 126 Grand
 Grotenrath, Fred, 111 W. Water av
 Hoffmann & Billings Mfg. Co., 100 2d
 Milwaukee Factory & Supplies
 *Milwaukee Leather Belting Co., 137 Sycamore
 Packard, O. L. Machinery Co., 165 W Water
 Pritzlaff, John Hardware Co.
 Rom, Robt. Co., 1101 St Paul av
 Rundle-Spencer Mfg. Co., 63 2d
 Trostel, A. & Sons, 612 Commerce
 Wisconsin Machinery & Mfg. Co., S Canal
 n Muskego av
OSHKOSH—Barnes, J. A. Machinery Co.
 Battis Bros.
 Clough & Co.
 Hay Hardware Co.
NEENAH—Jamison, Robert
 Johnson Bros.
 Krueger, Wm. & Co.
 Leach, Frank Hardware Co.
RACINE—Hoernel Hardware Co.
RHINELANDER—Dunn & Wood Hardware Co.
 Lewis Hardware Co.
 Rhinelander Iron Co.
 Wood, T. C. Hardware Co.
SHEBOYGAN—Geele, F. Hardware Co.
 Koepsell, J. J., Hardware Co.
STEVENS POINT—Central City Iron Works
 Cook, R. A.
WAUSAU—Murray, D. J. Mfg. Co.

Milling Attachments

Adams Co., Dnbuquerque, Ia.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cincinnati Milling Machine Co., Cincinnati, O.
Garvin Machine Co., Varick & Spring, New York
Ideal Machine Co., Hartford, Conn.
Kampsmith Mfg. Co., Milwaukee, Wis.
Niles-Bement-Pond Co., 111 B'way, New York
Osterlein Machine Co. (Vertical), Cincinnati, Ohio
Porter-Cable Machine Co., Syracuse, N. Y.
Pratt & Whitney Co., Hartford, Conn.

Milling Machines

(See Machines, Milling)

Mills (Adjustable, Hollow)

Geometric Tool Co., New Haven, Conn.
Modern Tool Co. (Hollow Milling Tool), Erie, Pa.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
Rogers, John M. Works, Gloucester City, N. J.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

*Mills (Alfalfa)

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Mills (Attrition)

Barnard & Leas Mfg. Co. ("Hercules," "Sovereign"), Moline, Ill.
Buckeye Iron & Brass Works, Dayton, O.
Caldwell, H. W. & Son Co. ("Fos"), 17th & Western av, Chicago, Ill.
Excel Mfg. Co., Pottersville, N. J.
Munson Bros. Co., Utica, N. Y.
SPROUT, WALDRON & CO. ("Monarch"), Muncy, Pa. (See adv. index, end of book)

Mills (Ball & Pebble)

Abbe Engineering Co., 220 B'way, New York
ALLIS-CHALMERS, Milwaukee, Wis. (See adv. index & branch offices, end of book)
Alsing, J. R. Co. (Tube), 136 Liberty, New York
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Bonnot Company, Canton, O.
Chalmers & Williams (Or Tube), Commercial Nat. Bank bldg., Chicago, Ill.
Davis, F. M. Iron Works Co. ("Ferraris" Ball Mill), Denver, Colo.
Day, J. H. & Co., Cincinnati, O.
Mosser, Wm. F. & Son, Allentown, Pa.
Power & Mining Machinery Co., Cudahy, Wis.
Prosser, Thos. & Son (the Krupp), 15 Gold, New York
Smidth, F. L. & Co., 50 Church, New York
Townsend Furnace & Machine Shop Co. (Ball), Albany, N. Y.

Wellman-Seaver-Morgan Co. (Ball), Cleveland, O.
West Pulverizing Machine Co., Jersey City, N. J.

Mills (Bark)

(See also Grinders, Edging)

Allentown Foundry & Machine Works Co., Allentown, Pa.
Barry & Zecher Co. ("Enreka"), Lancaster, Pa.
Bartley, Wm. & Son ("Shultis") Sectional, Bartley, N. J.
Eureka Bark Mill Co., Lancaster, Pa.
Eyster, Weiser & Co. (Ltd.), York, Pa.
Horn, Wm. H. & Bro., 451 N 3d, Phila., Pa.
Ott, Benj. & Sons ("Ott's" Bark Shaving), La Crosse, Wis.
Shapley & Wells, Blinghamton, N. Y.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
Waterville Foundry & Machine Co., Waterville, Me.
Wickes Bros., Saginaw, Mich. N. Y.

*Mills (Billet)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Mills (Bone & Shell)

Bell, C. S. Co. ("Don," Hand Bone), Hillsboro, Ohio
Bayley, Wm. Co. ("Bayley" Hand Bone), Springfield, O.
Campbell, P. F., 55 Laurel, Phila., Pa.
Dempwolf, C. H. & Co., York, Pa.
Freeman, S. & Sons Mfg. Co. ("Freeman" Hand Bone), Racine, Wis.
Messinger Mfg. Co. (Hand Bone), Tatamy, Pa.
Miller, L. J. (Bone), Cincinnati, O.
Mountville Mfg. Co. ("Reliable" Hand Bone), Mountville, Pa.
New Winona Mfg. Co. ("Diamond" Hand Bone), Winona, Minn.
Ross, Chas., & Son Co., 148 Classon av, Brooklyn, N. Y.
Sackett, A. J., 5th av & 1st, E Baltimore, Md.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
Wilson Bros. ("Wilson" Hand & Power Bone), Easton, Pa.

Mills (Boring & Turning)

Barnes, B. F. Co., Rockford, Ill.
Betts Machine Co. (Vertical, 5 to 20 ft. Swing), Wilmington, Del.
Bickford, H. & Co., Lakeport, N. H.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Bullard Machine Tool Co. ("Standard"), Bridgeport, Conn.
Cincinnati-Bickford Tool Co., Cincinnati, O.
Colburn Machine Tool Co. (Vertical, 30 to 72-inch swing), Franklin, Pa.
Davis, W. P., Machine Co., Rochester, N. Y.
Detrick & Harvey Machine Co. (Horizontal Drilling, Boring & Milling), Baltimore, Md.
Espin-Lucas Machine Works (Stationary & Portable, Horizontal Multiple Spindle Boring Mills), 342 N 15th, Phila., Pa.
Fox Machine Co., Grand Rapids, Mich.
Franklin Machine Co., Franklin, Pa.
Gisholt Machine Co., Madison, Wis.

King Machine Tool Co. (Vertical, 42, 50, 60 & 72-inch Size), Clifton & Spring Grove avs, Cincinnati, O.
Manning, Maxwell & Moore, 85 Liberty, New York
New Haven Mfg. Co., New Britain, Conn.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Poole, J. Morton Co. (Large), Wilmington, Del.
PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Rogers Machine Tool Co., Alfred, N. Y.
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
Warner & Swasey Co., Cleveland, O.

Mills (Boring & Turning, Vertical)

(See also Mills, Boring & Turning)

Betts Machine Co., Wilmington, Del.
Bausch Machine Tool Co., Springfield, Mass.
Bullard Machine Tool Co., Bridgeport, Conn.
Gisholt Machine Co. (Boring & Turning, Rapid Operation Tools, Boring, Turning & Drilling), Madison, Wis.
King Machine Co., Clifton & Spring Grove avs, Cincinnati, O.
Rogers Machine Tool Co., Alfred, N. Y.

Mills (Buhr Stone)

Barnard & Leas Mfg. Co. (French Buhr), Moline, Ill.
Campbell, P. F., 55 Laurel, Phila., Pa.
Day, J. H. & Co., Cincinnati, O.
Lamb & Co., Freeport, Ill.
New Winona Mfg. Co. ("Diamond" French), Winona, Minn.
Nordyke & Marmon Co. (All Kinds), 1101 W Morris, Indianapolis, Ind.
Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
SPROUT, WALDRON & CO. ("Monarch," All Kinds), Muncy, Pa. (See adv. index, end of book)
Starr, B. F. Co. (For Flour & Corn Mills), 455 North Baltimore, Md.
Straub Machinery Co., Cincinnati, O.

Mills (Car Wheel Boring)

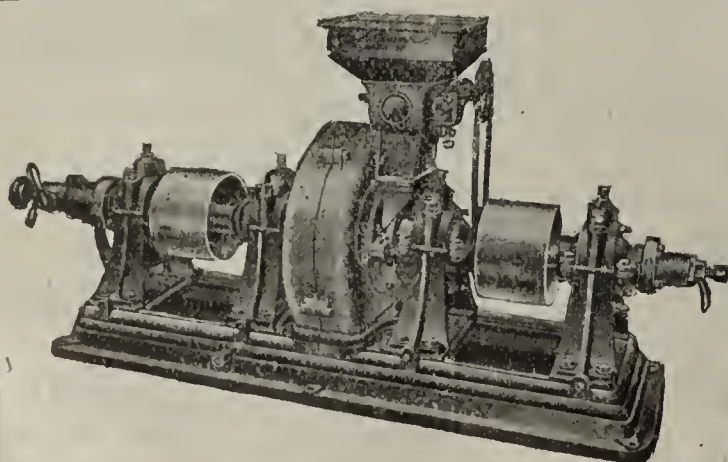
Bickford Drill & Tool Co., Cincinnati, O.
Niles-Bement-Pond Co., 111 B'way New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

*Mills (Charcoal Grinding)

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)

Mills (Chaser)

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.



Sprout, Waldron & Co.,

DESIGNERS AND BUILDERS
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A Complete Line of Milling Machinery.

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FEED MILLS.

Shafting, Pulleys, Hangers, Friction Clutches, Etc.

140 CANAL STREET, MUNCY, PA.

Mills (Chilian)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Chalmers & Williams (Automatic), Commercial Nat. Bk. bldg., Chicago, Ill.
 Currier, Cyrus, & Sons, Newark, N. J.
 Lane Slow Speed Chilian Mill Co. ("Lane" Slow Speed), Los Angeles, Cal.
 Wellman-Seaver-Morgan Co., Cleveland, O.

Mills (Chlorination)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Power & Mining Machinery Co., Cudahy, Wis.
 Stearns-Roger Mfg. Co., Denver, Col.

Mills (Cider & Cider Presses)

(See also Presses, Wine & Cider)

American Seeding Machine Co. Main Office, Springfield, O.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Boomer & Boschert Press Co., Syracuse, N. Y.
 Cardwell Machine Co., Richmond, Va.
 Comstock, Geo. S. ("Triumph"), Mechanicsburg, Pa.
 Cutaway Harrow Co., Higganum, Conn.
 Farquhar, A. B. Co. (Mills & Presser), York, Pa.
 Greenville Implement Co., Greenville, Mich.
 Hench & Dromgold Co., York, Pa.
 Hercules Lever Press Co. (Presses), Irvington, N. J.
 Hocking Valley Mfg. Co. Lancaster, O.
 Hydraulic Press Mfg. Co. (Presses), Mount Gilead, O.
 Keystone Farm Machine Co. ("Jamlt," "Medium," "Keystone"), York, Pa.
 Klotz Machine Co. (Presses), Sandusky, O.
 Lansing Wheelharow Co., Lansing, Mich.
 Thomas-Albright Co. (Presses), Goshen, Ind.
 White, S. R. & Bro., Norfolk, Va.
 Whitehurst, R. W. Co., Norfolk, Va.
 Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

Mills (Cinder)

(See Mills, Water Cinder)

Mills (Cocoa)

Strauh Machinery Co., 1956 W 6th, Cincinnati, Ohio

Mills (Coffee or Spice)

Alsing, J. R. Co. (Inc.) (Spice Mills), 136 Liberty, New York
 Arcade Mfg. Co. ("Crystal" Family Coffee Mill), Freeport, Ill.
 Automatic Coffee Machine Co., West Hoboken, N. J.
 Bronson-Wolton Co. ("Monitor"), Cleveland, O.
 Campbell, P. F. (Grocers' & Horse Power), 55 Laurel, Phila., Pa.
 Deer, A. J., Co. (Electric), Pearl & Seneca, Buffalo, N. Y.
 Devlin, Thos. Mfg. Co., Phila., Pa.
 Diehl Mfg. Co., Elizabeth, N. J.
 Enterprise Mfg. Co. ("Enterprise" Hand & Electric Power), 3d & Dauphin, Phila., Pa.
 Hardware & Woodenware Mfg. Co. ("Brighton," "Stearling" & "Excelsior"), 693 Broadway, New York
 Hobart Electric Mfg. Co. ("Hobart" Electric Coffee Mills), Troy, O.
 Howe Scale Co., Rutland, Vt.
 Huntley Mfg. Co., Silver Creek, N. Y.
 Landers, Frary & Clark ("Crown," "Universal" & "Regal" Coffee Mills), New Britain, Conn.
 Lane Bros. Co. ("Swift"), Poughkeepsie, N. Y.
 Parker, Chas. Co., Meriden, Conn.
 Reuter-Jones Mfg. Co., 1607 S 3d, St. Louis, Mo.
 Ross, Chas. & Son Co. (Spice), 148 Classon av, Brooklyn, N. Y.
 Stimpson Scale & Mfg. Co. (Grocers' Hand & Electric Power), Northville, Mich.
 Smith's, Jno. E. Sons Co. (Spice Mills), Buffalo, N. Y.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
SUN MFG. CO. (Family Coffee Mills), Columbus, O. (See adv. index, end of book)
 Waddell Woodenware Works Co., Greenfield, O.
 Woodruff & Edwards Co. ("Elgin National"), Elgin, Ill.
 Wrightsville Hardware Co. ("Premier"), Wrightsville, Pa.

Mills (Concentrating)

(See Mills, Stamp)

Mills (Continuous)

(See Rolling Mill Plants, Continuous)

***Mills (Corn Oil)**

ELMES, CHAS. F. ENGINEERING Works, c Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Mills (Corn & Cob)

Allentown Foundry & Machine Works (Inc.), Allentown, Pa.
ALLIS-CHALMERS CO. (Corn Mills), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Appleton Mfg. Co., Batavia, Ill.
 Barnard & Leas Mfg. Co., Moline, Ill.
 Barry & Zecher Co. (B. & Z. "Eureka"), Lancaster, Pa.
 Batavia Wind Mill Co., Batavia, Ill.
 Bell, C. S. Co., Hillshoro, O.
 Bowsher, N. C. Co., South Bend, Ind.
 Case Mfg. Co. (Corn), Columbus, O.
 Challenge Wind Mill & Feed Mill Co., Batavia, Ill.
 Colton, G. D. & Co., Galesburg, Ill.
 De Loach Mill Mfg. Co. (Corn), Atlanta, Ga.
 Eureka Bark Mill Co., Lancaster, Pa.
 Excel Mfg. Co., Pottersville, N. J.
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Great Western Mfg. Co., Leavenworth, Kan.
 Hardware & Woodenware Mfg. Co. (Domestic for Corn, Rice, etc., capacity 4 qts.), 826 Broadway, New York
 Kelly, O. S., Co. ("Kelly" Duplex, 2 to 20 H. P.), Springfield, O.
 Keystone Farm Machine Co., York, Pa.
 Munson Bros. Co. (Corn), Utica, N. Y.
 New Winona Mfg. Co. ("Osage"), Winona, Minn.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
 Robinson Mfg. Co. ("Iron Clad" Corn Ear Crusher), Muncy, Pa.
 Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
 Salem Iron Works. (Little Giant), Winston-Salem, N. C.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
SPROUT, WALDRON & CO. ("Monarch," All Kinds), Muncy, Pa. (See adv. index, end of book)
 Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
 Sterling Mfg. Co. ("Sterling"), Sterling, Ill.
 Stover Mfg. Co., Freeport, Ill.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)
 U. S. Wind Engine & Pump Co. (Corn), Batavia, Ill.
 Whitehurst, R. W. & Co. (Corn), Norfolk, Va.
 Whitman Agricultural Co., St. Louis, Mo.
 Wilson Bros., Easton, Pa.

***Mills (Cotter)**

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Mills (Cyanide)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Arizona & Sonora Mfg. Co., Nogales, Ariz.
 Denver Engineering Wks. Co., Blake & 30th, Denver, Colo.
 Merralls Machinery Co. (Roller Mills), 1123 B'way, New York
 Power & Mining Machinery Co., Cudahy, Wis.
 Traylor Engineering Co., Allentown, Pa.

Mills (Drug)

Abbe Engineering Co., 220 B'way, New York
 Alsing, J. R. Co. (Inc.), 136 Liberty, New York
 Automatic Coffee Machine Co., West Hoboken, N. J.
 Campbell, P. F., 55 Laurel, Phila., Pa.
 Carey, Samuel, 17 State, New York
 Colton, Arthur, 184 Brush, Detroit, Mich.
 Day, J. H. & Co., Cincinnati, O.
 Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Philadelphia, Pa.

Hardware & Woodenware Mfg. Co. ("Brighton" Hand Power), 693 Broadway, New York

Holmes & Blanchard Co., Boston, Mass.
 Landers, Frary & Clark, New Britain, Conn.
 Lane Bros. Co. ("Swift"), Poughkeepsie, N. Y.
 National Specialty Mfg. Co., 3d c Lehigh av, Philadelphia, Pa.

Parker, Chas. Co., Meriden, Conn.
 Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.
 Simpson, Jas. S., 26 Rodney, Brooklyn, N. Y.

SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)
 Stokes, F. J., Machine Co., Phila., Pa.
 Straub, A. W. Co., 3737 Filbert, Phila., Pa.
STROUD, E. H. & CO., 30-36 LaSalle, Chicago, Ill. (See adv. index, end of book)
 Waterville Foundry & Mfg. Co., Waterville, N. Y.

Mills (Dye Stuff)

Ross, Chas. & Son Co., 148 Classon av, Brooklyn, N. Y.

Mills (Emery Rock)

SPROUT, WALDRON & CO. ("Monarch"), Muncy, Pa. (See adv. index, end of book)
 Sturtevant Mill Co., Clayton c Park, Dor., Boston, Mass.

Mills (End)

American Die & Tool Co. (Shell), Reading, Pa.
 Becker Milling Machine Co. (Spiral Fluted, etc.) Hyde Park, Mass.
 Boker, Hermann & Co. ("Novo" Steel), 103 Duane, New York
 Brown & Sharpe Mfg. Co., Providence, R. I.
CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland O. (See adv. index, end of book)
MORSE TWIST DRILL & MACHINE Co. (With Center Cut & With Spiral Flutes, etc.), New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co. ("National," with Spiral Flutes, etc.), Detroit, Mich.
 Pratt & Whitney Co., Hartford, Conn.
 Standard Tool Co. (Straight, Fluted, etc.), Central av. & P. Ry., Cleveland, O.
 Sturtevant Mill Co., Clayton c Park Dor., Boston, Mass.
 Union Twist Drill Co., Athol, Mass.

Mills (Exhaust Tumbling)

CENTRAL IRON WORKS, Quincy, Ill. (See adv. index, end of book)

Mills (Fanning)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Aul, Henry & Son, Lyons, N. Y.
 Avery Mfg. Co., Peoria, Ill.
 Beeman & Co., Minneapolis, Minn.
 Belcher & Taylor Agric. Tool Co., Chicopee Falls, Mass.
 Belle City Mfg. Co., Racine, Wis.
 Billups, C. Son & Co., Norfolk, Va.
 Brennan & Co., Louisville, Ky.
 Bristol & Gale Co. ("B & G"), 110 Washington Boul, Chicago, Ill.
 Buch's, A. Sons Co., Elizabethtown, Pa.
 Campbell, M. Fanning Mill Co., Detroit, Mich.
 Challenge Wind Mill & Feed Mill Co., Batavia, Ill.
 Cleland, A. V., Minneapolis, Minn.
 Dewey Mfg. Co., Winnebago City, Minn.
 Dickey, A. P., Mfg. Co., Racine, Wis.
 Durling, A. N., Detroit, Mich.
 Ferrell, A. T. & Co., Saginaw, Mich.
 Foster & Williams Mfg. Co. ("Badger State"), Racine, Wis.
 Freeman, S. & Sons Mfg. Co. ("Centennial"), Racine, Wis.
 Gencsee Valley Mfg. Co., Mount Morris, N. Y.
 Grant-Ferris Co., Troy, N. Y.
 Grollmund, M., Fergus Falls, Minn.
 Harder Mfg. Co., Cohleskill, N. Y.
 Hirsch Bros., Milwaukee, Wis.
 Hosford, Jno., Monroeville, O.
 Huntley Mfg. Co., Silver Creek, N. Y.
 Johnson & Field Mfg. Co. ("Racine"), Racine, Wis.
 Kelser Mfg. Co., Sauk Centre, Wis.
 Kingman & Co., Peoria, Ill.
 Marseilles Mfg. Co., Marseilles, Ill.
 Messinger Mfg. Co., Tatamy, Pa.
 Miller Bros. Mfg. Co., Alexandria, Ind.
 Nash, H. D. & Co., Sacramento, Cal.
 Newark Machine Co., Newark, O.
 New Winona Mfg. Co., Winona, Minn.
 Owatonna Fanning Mill Co., Owatonna, Minn.
 Owens, J. L. Co., Minneapolis, Minn.

Putney, C. H., Lyons, N. Y.
 Racine Implement Co., Racine, Wis.
 Reist, J. R. & Son, Harrisburg, Pa.
 Rowell, J. S. Mfg. Co., Beaver Dam, Wis.
 Solar Mfg. Co., Kaukauna, Wis.
 Sperry Mfg. Co., Owatonna, Minn.
 Trappe, Chas. H., Mascoutah, Ill.
 Twin City Separator Co., Minneapolis, Minn.

Mills (Feed Grinding)

Aermotor Co., Campbell av., nr. 12th, Chicago, Ill.
 Ajax Mfg. Co. ("Standard"), Allegheny, Pa.
ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)
 Althouse Wheeler Co. (For Meal, Graham Flour, etc.), Waupum, Wis.
 American Bell & Foundry Co., Northville, Mich.
 American Drill Co., Springfield, O.
 Anderson Company, ("Invincible"), St. Paul, Minn.
 Appleton Mfg. Co., Batavia, Ill.
 Baker Mfg. Co., Evansville, Wis.
BARTLETT, C. O. & SNOW CO.,
 French st., Cleveland, O. (See adv. index, end of book)
 Batavia Wind Mill Co., Batavia, Ill.
 Beery Mfg. Co., Upper Sandusky, O.
 Bell, C. S. Co., Hillsboro, O.
 Belle City Mfg. Co., Racine, Wis.
 Beneca Agricultural Works, Beneca, Cal.
 Blue Valley Mfg. Co., Manhattan, Kan.
 Bowsher, N. P. Co., South Bend, Ind.
 Bristol & Gale Co., 110 Washington Boul., Chicago, Ill.
BROWN, A. & F. CO., 25 Dey, New
 York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Buckeye Engine & Foundry Co., Joliet, Ill.
 Butler Co., Butler, Ind.
 Caldwell & Drake Iron Works (Inc.), Columbus, Ind.
 Case Mfg. Co., Columbus, O.
 Challenge Co. (Sweep & Belt Power), Batavia, Ill.
 Chicago Feed Mill Co., Chicago, Ill.
 Colton, G. D. & Co., Galesburg, Ill.
 Cook Mfg. Co., Albion, Mich.
 Cooper, A. A. Wagon & Buggy Co., Dubuque, Ia.
 Cyclone Feed Grinder Co., Lincoln, Neb.

Dain Mfg. Co., Ottumwa, Ia.
 Duplex Mfg. Co., South Superior, Wis.
 Dutton, E. Q. & Co., Cato, N. Y.
 Eagle Machine Co., Lancaster, O.
 Elgin Wind Power & Pump Co., Elgin, Ill.
 Enterprise Mfg. Co. (Steam & Horse Power), Columbiana, O.
 Eureka Fence Mfg. Co., Richmond, Ind.
 Excel Mfg. Co., Pottersville, N. J.
FAIRBANKS, MORSE & CO. ("Fairbanks-Morse"), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
 Flinchbaugh Mfg. Co., York, Pa.
 Foos Mfg. Co. (Farmers), Springfield, O.
 Fort Scott Feed Mill Co., Fort Scott, Kan.
 Hobe Foundry & Machine Co., Sheboygan, Wis.
 Great Western Mfg. Co., Leavenworth, Kan.
 Hlaven, Jas. L. Co., Cincinnati, O.
 Heebner & Sons, Lansdale, Pa.
 Hench & Drougold Co., York, Pa.
 Hercules Mfg. Co., Centerville, Ia.
 Howell, R. R. & Co., 31st av, c S E 4th, Minneapolis, Minn.
 Hutchinson, Jno. Mfg. Co., Jackson, Mich.
 Jenkins Hay Rake & Stacker Co., Chillicothe, Mo.
 Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.
 Kansas City Hay Press Co., Kansas City, Mo.
 Kelly & Taneyhill Co., Waterloo, Ia.
 Kelly, O. S., Co. ("Kelly") Duplex 2 to 20 H. P., Springfield, O.
 Keystone Farm Machine Co., York, Pa.
 Lamb & Co. (Burr Stone, with or without Sacking Elevator), Freeport, Ill.
 Lansing Motor & Pump Co., Lansing, Mich.
 Litchfield Mfg. Co., Waterloo, Ia.
 Marseilles Mfg. Co., Marseilles, Ill.
 McCargar, L. B. Feed Mill Co. ("Lightning" Triple Gear), St. Joseph, Mo.
 Messinger Mfg. Co., Tatamy, Pa.
 Munson Bros. Co., Utica, N. Y.
 New Winona Mfg. Co. ("Diamond"), Winona, Minn.
 Ohio Mfg. Co., Upper Sandusky, O.
 Patch, A. H., Clarksville, Tenn.
 Phillips, T. L. ("Aurora"), Aurora, Ill.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
 Rogers Iron Co., Springfield, O.
 Ross, Chas. & Son Co., 148 Classon av. Brooklyn, N. Y.

St. Albans Foundry & Implement Co., St. Albans, Vt.
 Salem Iron Works, Winston Salem, N. C.
 Sandwich Mfg. Co., Sandwich, Ill.
 Smalley Mfg. Co., Mantowoc, Wis.
 Smith & Pomeroy Wind Mill Co., ("Eureka") Kalamazoo, Mich.
 Snow Mfg. Co., Geneva, Ill.
 South Bend Foundry Co., South Bend, Ind.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Spartan Mfg. Co. ("Corn-Belt"), Pontiac, Ill.
SPROUT, WALDRON & CO. ("Monarch")
 All Kinds, Muncy, Pa. (See adv. index, end of book)
 Star Mfg. Co. (Sweep & Belt Power), New Lexington, O.
 Starr, B. F. & Co., 455 North Baltimore, Md.
 Sterling Mfg. Co., Sterling, Ill.
 Stevens, A. W. Co. (Also French Burr), Marietta, Wis.
 Stevus Mfg. Co., Joliet, Ill.
 Stover Mfg. Co. ("The Ideal," also with Horse Power Combined), Freeport, Ill.
 Straub Machinery Co., Cincinnati, O.
STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of book)
 Sundries Mfg. Co., South Bend, Ind.
 Thornburgh Mfg. Co. (Triple Geared & Direct Acting Sweep), Bowling Green, O.
 Twin City Iron Works, Minneapolis, Minn.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Waterloo Furnace & Feed Mill Co., Waterloo, Ind.
 Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.
 Zimmerman, A. A., New Holland, Pa.
 Zimmerman Steel Co., Lone Tree, Ia.

Mills for Enamel

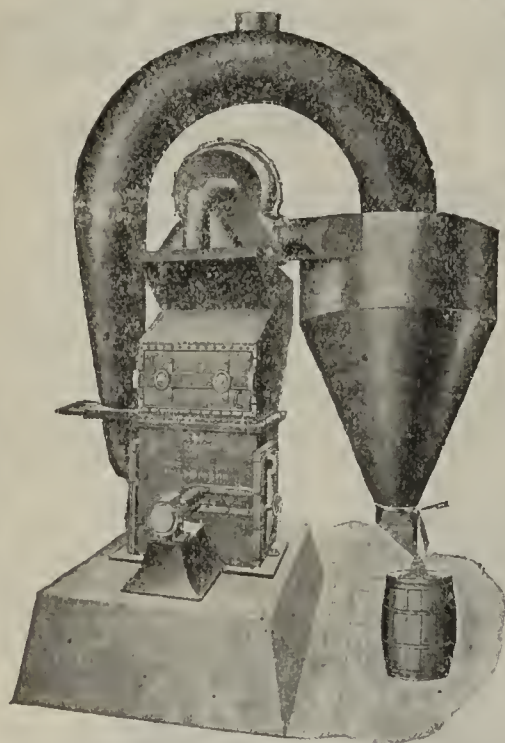
Ross, Chas. & Son Co. ("Eccentric"), 148 Classon av. Brooklyn, N. Y.

*Mills for Grinding Chemicals

BROWN, A. & F. CO., 25 Dey, New
 York. (See adv. index, end of book)

*Mills (Gold & Silver)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices end of book)



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Mills (Grinding)

(See also Machinery, Pulverizing)

Acton, John, 118 John, Brooklyn, N. Y.
BARTLETT, C. O. & SNOW CO.,
 (Cement, Paint, Spices, etc.), French st.,
 Cleveland O. (See adv. index, end of book)
BRADLEY PULVERIZER CO. (The
 "Griffin"), 92 State, Boston, Mass.
BROWN, A. & F. CO. ("Cogswell"),
 25 Dey, New York. Works: Elizabethport,
 N. J. (See adv. index, end of book)
 Buckeye Iron & Brass Works (Plaster), Day-
 ton, O.
 Campbell, P. F. (For Drugs, Fertilizers, Whit-
 ing, etc.), 55 Laurel, Philadelphia, Pa.
 Carey, Samuel, 17 State, New York
 Currier, Cyrus, & Sons (for Plastic Ma-
 terials), Newark, N. J.
 Daniel Wm. Sons Co. (Paint, etc.), Providence,
 R. I.
 Day, J. H. Co., 1144 Harrison av, Cincinnati, O.
 De Leach Mill Mfg. Co., Bridgeport, Ala.
 Emerick, Geo. S., Nazareth, Pa.
 Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
 Excel Mfg. Co., Pottersville, N. J.
 Foos Mfg. Co. ("Scientific" Grinding), Spring-
 field, O.
 Gump, B. F. Co. (Flour, Drug, Chicory, etc.),
 S Clinton, Chicago, Ill.
Huntington Dry Pulverizer Co., 120 B'way,
 New York
 Kaestner & Co. (Inc.) (Portable), 241 S Jef-
 ferson, Chicago, Ill.
 Kent Machine Works, 246 Plymouth, Brook-
 lyn, N. Y.
 Kent Mill Co., 170 B'way New York
KOVEN, L. O. & BRO., 50 Cliff, New
 York (See adv. index, end of book)
 Lane, G. W. & C. A. ("Lane Giant"), Exeter,
 N. H.
 Lehigh Car Wheel & Axle Wks. ("Fuller Le-
 high" Pulverizer), Catasauqua, Pa.
 Merralls Mull Co., 140 1st, San Francisco,
 Cal. ("Improved Muller")
Miller, L. J. (Bone, Grain, Salt, Oil Cake, etc.),
 1233 Harrison, Cincinnati, O.
 Nebel, M. A., 72 Grand av, Brooklyn, N. Y.
 Newell Mfg. Co., 149 B'way, New York
 Nordyke & Marmon Co. (Roller & Buhr Stone),
 Indianapolis, Ind.
 Noys Mfg. Co., 50 Lakeview av, Buffalo, N. Y.
 Raymond Bros. Impact Pulverizer Co., 143
 Laflin, Chicago, Ill.
 Ross, Chas. & Son Co. (French Buhr), 148
 Classon av, Brooklyn, N. Y.
 Salem Iron Works (French Buhr), Winston-
 Salem, N. C.
 Schnitz-O'Neill Co., Minneapolis, Minn.
 Simpson, Jas. S. (Bone, Cork, Spice, Oil, Cake,
 Paint, etc.), 26 Rodney, Brooklyn, N. Y.
 Smidth, F. L., & Co. (Cement), 50 Church,
 New York
 Smith, Theodore & Sons Co. ft of Essex, Jer-
 sey City, N. J.
SPROUT, WALDRON & CO. (Paint, Cem-
 ent, Phosphate, Oil, Cake, Cottonseed,
 etc.), Muncy, Pa. (See adv. index, end
 of book)
 Starr, B. F. Co. (For Flour & Corn Mills), 455
 North, Baltimore, Md.
 Steadman Foundry & Machine Works, Aurora,
 Ind.
 Straub Machinery Co., Cincinnati, O.
STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of
 book)

Sturtevant Mill Co. (Cement, Lime, Paint, etc.),
 Chayton c Park, Dor., Boston, Mass.
 Walker & Elliott (Fertilizer, Cement, Phos-
 phate, etc.), Wilmington, Del.
 Waterville Foundry & Mfg. Co. (Paint, etc.,
 Hand & Power), Waterville, N. Y.
 Wilson Bros. (Bone), Easton, Pa.

***Mills (Hay Grinding)**

STROUD, E. H. & CO., 36 La Salle, Chi-
 cago, Ill. (See adv. index, end of book)

Mills (Hollow)

Brown & Sharpe Mfg. Co. (With Inserted
 Blades, etc.), Providence, R. I.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index,
 end of book)
WELLS BROS. CO. ("Little Giant"), Green-
 field, Mass. (See adv. index, end of book)

Mills (Huntington)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
 Chalmers & Williams, Commercial Nat. Bk.
 bldg., Chicago, Ill.
 Power & Mining Machinery Co., Cudahy, Wis.

Mills (Ink Grinding)

Black & Clawson Co., Hamilton, O.
 Kent Machine Works, 39 Gold, Brooklyn,
 N. Y.
 Poole, J. Morton Co., Wilmington, Del.
 Ross, Chas. & Son, 148 Classon av, Brooklyn,
 N. Y.
STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of
 book)

Mills (Iron Cinder)

(See also Mills, Tumbling)

Sly, W. W. Mfg. Co. ("Sly" for Saving
 Iron & Coke from Cupola Dump), Jun-
 ction rd, Cleveland, O.

Mills (Kaffir Corn & Milo Maize)

Challenge Co. (In the Head), Batavia, Ill.

***Mills (Linseed)**

ELMES, CHAS. F. ENGINEERING
 Works, c Fulton & Sangamon, Chicago,
 Ill. (See adv. index, end of book)

Mills (Mustard)

Automatic Coffee Machine Co., West Hoboken,
 N. J.
 Kelso & Co., 209 S Clinton, Chicago, Ill.
 Ross, Chas. & Son Co., 148 Classon av,
 Brooklyn, N. Y.
STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of
 book)

***Mills (Nut Grinding)**

STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of
 book)

Mills (Oil Cake)

BROWN, A. & F. CO. ("Cogswell"),
 25 Dey, New York. Works: Elizabethport,
 N. J. (See adv. index, end of book)
 Buckeye Iron & Brass Works, Dayton, O.
 Campbell, P. F., 55 Laurel, Phila., Pa.
 Carey, Samuel, 17 State, New York
 Cardwell Machine Co., Richmond, Va.
ELMES, CHAS. F. ENGINEERING
 Works, Fulton c N Sangamon, Chicago, Ill.
 (See adv. index, end of book)
 Excel Mfg. Co., Pottersville, N. J.
 Foos Mfg. Co. ("Scientific" Grinding), Spring-
 field, O.
 McLauthlin, Geo. T. Co., Boston, Mass.
 Poole Engineering & Machine Co., Woodberry
 Station, Baltimore, Md.
SPROUT, WALDRON & CO. ("Monarch")
 Attrition & French Burr, Muncy, Pa.
 (See adv. index, end of book)
STROUD, E. H. & CO., 36 La Salle,
 Chicago, Ill. (See adv. index, end of
 book)
 Van Winkle, E. Gin & Mach. Works, Atlanta,
 Ga.

Mills (Pebble Tube)

(See Mills, Ball & Pebble)

Mills (Plate Rolling)

MORGAN ENGINEERING CO., Alli-
 ance, O. (See adv. index & branch offices,
 end of book)
 United Engineering & Foundry Co., Pittsburg,
 Pa.

Mills (Prospecting)

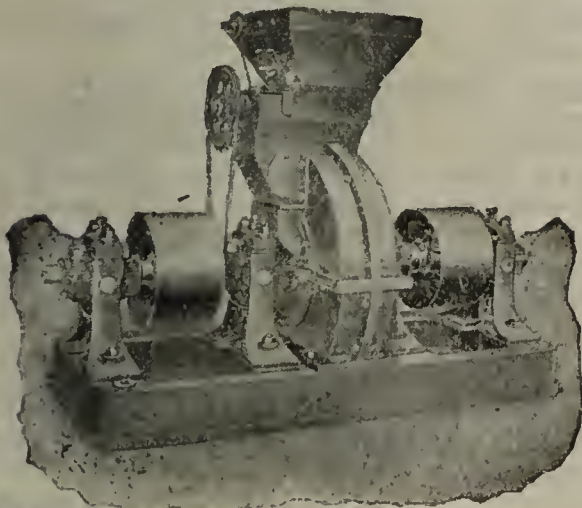
ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
 Union Iron Works Co., San Francisco, Cal.

Mills (Pug)

American Clay Machinery Co., Bucyrus, O.
 Arnold-Creager Co., New London, O.
 Bonnot Company, Canton, O.
 Brewer, H. & Co., Tecumseh, Mich.
 Chambers Bros. Co., 52d, bel Lancaster av,
 Phila., Pa.
 Elspass Engineering & Mfg. Co., Denver, Colo.
 Freese, E. M. & Co., Gallon, O.
 Horton Mfg. Co. (Iron & Steel), Painesville, O.
 Means Foundry & Machine Co., Steuben-
 ville, O.
 Michigan Brick & Tile Mach. Co., Morenci,
 Phillips & McLaren, Pittsburg, Pa. Mich.
 Potts, C. & A. Co., Indianapolis, Ind.
 Ross, Chas., & Son Co., 148 Classon av,
 Brooklyn, N. Y.
 Steele, J. C. & Son, Statesville, N. C.
 Stevenson Co., Wellsville, O.
 United Iron Works Co., Springfield, Mo.
 Wallace Mfg. Co., Frankfort, Ind.
 Wellington Machine Co., Wellington, O.

Mills (Quartz)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
BRADLEY PULVERIZER CO. (The
 "Griffin"), 92 State, Boston, Mass.
 Downie-Wright Mfg. Co., Rapid City, S. Dak.



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Elspass Engineering & Mining Machy. Co. ("Elspass" Roller), Denver, Colo.
 Harron, Rickard & McCone (Inc.), 21 Fremont, San Francisco, Cal.
 Hendy, Joshua Machine Works, San Francisco, Cal.
 Kent Mill Co., 170 B'way, New York
 Krogh Mfg. Co., San Francisco, Cal.
 Krom Machine Works (Rolling Toggle & 4 Life Crushers), 170 B'way, New York
 Lane, C. C., Los Angeles, Cal.
 Modern Mining Machinery Co. ("Little Glant"), Portland, Ore.
 Power & Mining Machinery Co., Cudahy, Wls.
 Raymond Bros. Impact Pulverizer Co., 143 Laffin, Chicago
 Rlsdon Iron & Locomotive Works, Stewart & Folsom, San Francisco, Cal.
 Taylor Bros., Grass Valley, Cal.

Mills (Rice)

BROWN, A. & F. CO. ("Cogswell"), 25 Dey, New York. Works: Elizabethport, N. J. (See adv. index, end of book)
 Nordyke & Marmon Co., Indianapolis, Ind.
SPROUT, WALDRON & CO. (Polishers), Sheiling Stone, Octagon Reels, Polishing Brushes, Trumbles, Separators, Chaff Grinders, Muncy, Pa. (See adv. index, end of book)

Mills (Roller Grinding)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Great Western Mfg. Co. (Also Roller Feed), Leavenworth, Kan.
 Nordyke & Marmon Co. (Double Two Pair, High Four Roller & Three Pair, High Six Roller, etc.), Indianapolis, Ind.
SPROUT, WALDRON & CO. (Double Roller), Two-Pair & Three-Pair High, All Sizes, Muncy, Pa. (See adv. index, end of book)
 Straub Machinery Co. (Corn & Wheat), 1926 W 6th, Cincinnati, O.

Mills (Rosin)

Barnett, Oscar Foundry Co. (Automatic), Newark, N. J.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Sly, W. W. Mfg. Co., Cleveland, O.
STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)

*Mills (Rubber Scrap)

STROUD, E. H. & CO., 36 La Salle, Chicago, Ill. (See adv. index, end of book)

Mills (Rumblng)

(See Barrels, Tumbling & Rumblng)

Mills (Shell End)

Becker Milling Machine Co., Hyde Park, Mass.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

*Mills (Slabbing)

MORGAN ENGINEERING CO., Alliance, O. (See adv. index & branch offices, end of book)

Mills (Stamp)

ALLIS-CHALMERS CO. (Steam, Gravity & Atmospheric), Milwaukee, Wls. (See adv. index & branch offices, end of book)
 Arizona & Sonora Mfg. Co., Nogales, Ariz.
 Ashland Iron Works, Ashland, Oregon
 Caird Engineering Works, Helena, Mont.
 Chalmers & Williams, Commercial Nat. Bank bldg., Chicago, Ill.
 Colorado Iron Works Co., Denver, Colo.
 Davis, F. M., Iron Works Co., Denver, Colo.
 Denver Engineering Works, Denver, Colo.
FAIRBANKS, MORSE & CO. ("Nissen"), Chicago, Ill. (See adv. index & branch offices, end of book)
 Globe Iron Works (Inc.), Stockton, Cal.
 Hammond Mfg. Co., Portland, Ore.
 Hendy, Joshua Mach. Works, San Francisco, Cal.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 McFarlane & Co. Mfg. Co., Denver, Colo.
 Mecklenburg Iron Works, Charlotte, N. C.
 Merralls Machinery Co., 1123 B'way, New York
 Mine & Smelter Supply Co., Denver, Colo., & 42 B'way, New York
 Montgomery, J. H., Machinery Co., Denver, Colo.
 National Iron Works, Spokane, Wash.
 Nordberg Mfg. Co., Milwaukee, Wis.
 Power & Mining Mach'y. Co., Cudahy, Wls.
 Portage Lake Foundry & Machinery Co., Hancock, Mich.
 Rapid Economy Stamp Co. ("Richard's"), San Francisco, Cal.
 Snyder, Fredk. T. & Co., 324 Dearborn, Chicago, Ill.
 Stearns, Roger, Mfg. Co., Denver, Colo.
 Vulcan Iron Works, San Francisco, Cal.
 Traylor Engineering Co., Allentown, Pa.
 Trent Engineering & Machinery Co., Salt Lake City, Utah
 Union Iron Works Co., San Francisco, Cal.
 Union Iron Works, Spokane, Wash.
 Wellman-Seaver-Morgan Co., Cleveland, O.
 Willamette Iron & Steel Works, Portland, Ore.

*Mills (Stave Tumbling)

CENTRAL IRON WORKS, Quincy, Ill. (See adv. index, end of book)

Mills (Tube)

(See Mills, Ball & Pebble)

Mills (Tumbling)

(See also Barrels, Tumbling & Rumblng)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Sly, W. W. Mfg. Co. (Exhaust Steel), Cleveland, O.
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Mills (Water Cinder)

CENTRAL IRON WORKS, Quincy, Ill. (See adv. index, end of book)
 Sly, W. W. Mfg. Co., Cleveland, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Mills (Water Polishing)

CENTRAL IRON WORKS, Quincy, Ill. (See adv. index, end of book)
 Sly, W. W. Mfg. Co., Cleveland, O.
WHITING FOUNDRY EQUIPMENT Co., General Office & Works, Harvey, Ill. (See adv. index & branch offices, end of book)

Mills (White Lead)

(See White Lead Machinery)

Mills (Wire Flattening)

Blake & Johnson Co., Waterbury, Conn.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

*Mills & Factories Bought & Dismantled

PFAFF & KENDALL, Ferry & Foundry, Newark, N. J. (See adv. index, end of book)

Mine Supplies

(See Firms in Mill & Factory Supplies, with the word Mine following name)

Mine Supplies (Electric)

Commercial Electrical Supply Co., St. Louis, Mo.
 Cooke-Wilson Electric Supply Co., Pittsburgh, Pa.
 Doubleday-Hill Electric Co., Pittsburgh, Pa.
 Gee Electric Construction Co., Wheeling, W. Va.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Johns, H. W.-Manville Co., 100 William, New York
 Lawrence, F. D. Electric Co., Cincinnati, O.
 Morris, Elmer P. Co., 72 Trinity pl., New York
 Ohio Brass Co., Mansfield, O.
 Rldgway Co., Columbus, O.
 Sackett Mine Supply Co., Columbus, O.
 Union Electric Co., Pittsburgh, Pa.
 Wesco Supply Co., St. Louis, Mo.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Mine Timbers (Steel)

Carnegie Steel Co., Pittsburg, Pa.

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American Insulating Material Mfg. Co., Alexandria, Ind.
 Banner Rock Products Co., Alexandria, Ind.
 Columbia Mineral Wool Co., 112 Clark, Chicago, Ill.
 Hoosier Rock Wool Co., Windfall, Ind.
 Union Fibre Co. (Loose & Boards), Winona, Minn.
UNITED STATES MINERAL WOOL
 Co., 140 Cedar, New York. (See adv. index, end of book)

Miners' Needles & Scrapers

Fulton Tool Works ("Fulton"), Canal, Fulton, O.
 Harbocg, Martin Co., Allegheny, Pa.
 Hubbard & Co, Pittsburg, Pa.
 Klein-Logan Co., Pittsburg, Pa.
 Pittsburg Steel Mfg. Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Warwood Tool Co., Wheeling, W. Va.

Miners' Wick

Hoffman-Corr Mfg. Co., 55 White, New York

Mirror Frames (Brass)

Edwardsville Brass Co., Edwardsville, Ill.

Mirrors (Advertising)

Bache, Semon, & Co., West & Hubert, New York

Mirrors (Bath Room)

Ireland & Matthews Mfg. Co., Detroit, Mich.

***Mirrors (Mangin)**

RODEFER, T. A., Bellaire, Ohio. (See adv. index, end of book)

Mirrors (Plate Glass)

Allegan Mirror Plate Co., Allegan, Mich.
 Anderson, Geo. H., & Co., 281 W. Superior, Chicago, Ill.
 Bache, Semon, & Co., West & Hubert, New York
 Boston Mirror Co., Boston, Mass.
 Crane Glass & Mfg. Co., 206 St. Clair av., N. E., Cleveland, O.
 Donnelly, J. R. Co., 54 Classon av., Brooklyn, N. Y.
 Empire Mirror & Beveling Co., Alexandria, Ind.
 Haskins Glass Co., Rochester, N. Y.
 Hires Turner Glass Co., 230 S 30th, Philadelphia, Pa.
 Jackson Glass Works, Jackson, Mich.
 Jamestown Mirror Works, Jamestown, N. Y.
 Louisville Ornamental Glass Co., Louisville, Ky.
 Niagara Glass Works, Buffalo, N. Y.
 Pittsburg Plate Glass Co., Frick bldg., Pittsburg, Pa.
 St. Louis Mirror Co., St. Louis, Mo.
 Standard Mirror Co., Buffalo, N. Y.
 Tyler & Hippach, 47 E Ohio, Chicago, Ill.
 Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

Mirrors (Shock)

Allison & Doughty, 451 Greenwich, New York
 Bache, Semon, & Co., West & Hubert, New York

***Mitre Boxes**

(See also Boxes, Mitre)

IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)

Mitre Scale

Reeves Mfg. Co., Milford, Conn.

***Mixers (Air)**

MCRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Mixers (Asphalt)

(See Asphalt Mixers)

Mixers (Bread)

(See Kneading & Mixing Machines)

Mixers (Clay)

Chambers Bros. Co., 52d, bel Lancaster, av, Phila., Pa.
 Fernholtz Brick Machinery Co., Boyle & Old Manchester avs, St. Louis, Mo.
 Ross, Chas., & Son Co., 148 Classon av., Brooklyn, N. Y.
 Scott Mfg. Co., 3rd National Bank bldg., St. Louis, Mo.

Mixers (Concrete)

(See Concrete Mixers)

Mixers (Fertilizer)

Day, J. H. Co., Cincinnati, O.
 Dempwolf, O. H. & Co., York, Pa.
 Dempwolf, E. A. & Sons, York, Pa.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Stedman's Foundry & Machine Works, Aurora, Ind.
 Superior Tool & Supply Co. ("Superior" Double), 500 E. Front, Cincinnati, O.
 Walker & Elliott, Wilmington, Del.

Mixers (Flour & Baking Powder)

Prims Machinery Co., Battie Creek, Mich.
 Ross, Chas., & Son Co., 148 Classon av., Brooklyn, N. Y.

Mixers (Foundry Sand)

Auto Sand Mixer Co., Piqua, O.
 Barbour-Stockwell Co. ("Boston"), Cambridge, Mass.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Sellers, Wm. & Co. (Centrifugal), 1600 Hamilton, Phila., Pa.

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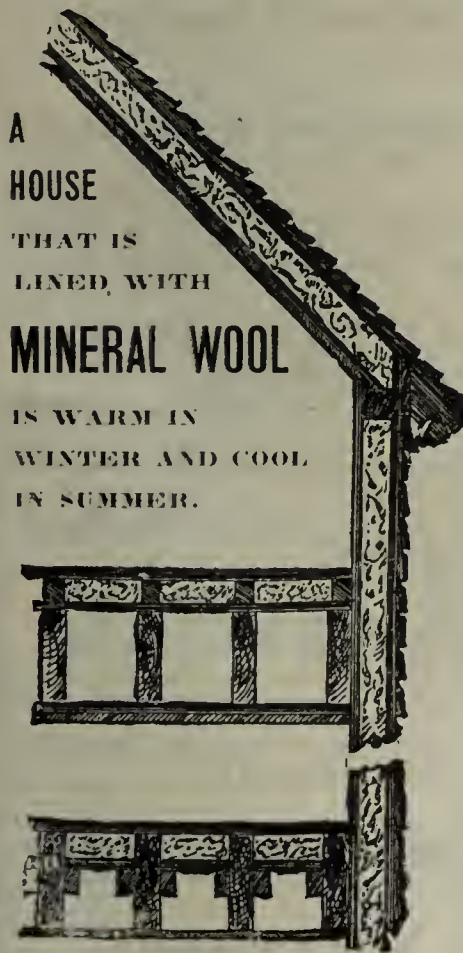
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Campbell, J. B. Brass Works, Erie, Pa.
Cullen & Atkinson ("Monitor"), Hartford, Conn.
Detroit Brass Works (Natural Gas), Detroit, Mich.
Edwardsville Brass Co., Edwardsville, Ill.
Hays Mfg. Co., Erie, Pa.

Mixers (Hot Metal)

Pollock, Wm. B. Co., Youngstown, O.
Variety Iron & Steel Works Co. (For Steel Mfrs.), Cleveland, O.

Mixers (Lubricating Compounds)

Ross, Chas., & Son Co., 148 Classon av., Brooklyn, N. Y.

Mixers (Mortar)

(See also Concrete Mixers)

MONIGHAN MACHINE CO. ("Elliott"), 813 Carroll av, Chicago, Ill. (See adv. index, end of book)
Municipal Engineering & Contracting Co., Chicago, Ill.
Teal, Chas. A. (For Ready Mixed Mortar, etc.), 1361 Ridge av, Phila., Pa.
U. S. Concrete Machine Co. ("Grant"), Detroit, Mich.
Walker & Elliott, Wilmington, Del.

Mixers (Paint, Power)

(See Paint Grinding & Mixing Machinery)

Mixers (Paste)

BECK, CHAS. PAPER CO. (LTD.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)
Grammes, L. F. & Sons, Allentown, Pa.

Mixers (Plaster)

(See also Mills, Grinding)

Day, J. H. Co., Cincinnati, O.
Dunning, W. D., Syracuse, N. Y.
Ehram, J. B. & Sons Mfg. Co. ("Enterprise"), Enterprise, Kan.
Ross, Chas., & Son Co., 148 Classon av., Brooklyn, N. Y.

Mixers (Sand)

(See Mixers, Foundry Sand)

Mixers (Sausage Meat)

Murray Iron Works Co. ("New Murray" & "Zimmerman"), Burlington, Iowa
Superior Tool & Supply Co. ("Superior" Double), 500 E. Front, Cincinnati, O.

Modelers & Sculptors (Architectural)

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)

Bailey Co. (Wood), 224 21st, Detroit, Mich.
Beil & Mauch, 28 St. Clair, Chicago, Ill.
Borgia Marble Works, 1133 B'way, New York
Buchner, A. & Co., 220 N 2d, St. Louis, Mo.
Cairns, Hugh, 30 Ipswich, Boston, Mass.
Campbell & Horrigan Marble & Monumental Church Art Work Co., 151 E 18th, New York
DECORATORS' SUPPLY CO., Archer av. & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)

Dittgen & Rapp, 3927 Spencer av, Norwood, O.
Dux, Jos., 132 W. Jackson Blvd., Chicago, Ill.
Eastern Ornamental Plaster Co., Brooklyn, N. Y.
Ellin, Kitson & Co., 25th & N River, New York
Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.

Entress, Albert, 597 Main, Hartford, Conn.
Evans, John & Co., Boston, Mass.
Fischer & Jirouch, Cleveland, O.
Forman Bros., 615 Gates av, Brooklyn, N. Y.
Haigermoser, Jos., 250 Randolph, Detroit, Mich.
Halstrick, M., 636 South av, Rochester, N. Y.
Harbaugh, A. J. Marble & Granite Works, 4729 Butler, Pittsburg

Harnisch, Ad., Syracuse, N. Y.
Hartley, Jonathan Scott, 145 W 55th, New York
Koppe & Steinichen, 89 Houston, Atlanta, Ga.
Lamb, J. & R. (Inc.), 25 6th av, New York
Langenbahn, August A., 440 7th, Buffalo, N. Y.

Lauter, Chas., 451 W. 28th, New York
Lehold, O., 83 Randolph, Detroit, Mich.
Llesum, Geo. & Co., 228 E. 24th, New York
Maene, Edouard, 312 S. 4th, Philadelphia, Pa.
Milwaukee Ornamental Carving Co., Milwaukee, Wis.

Miranda, Fernando, 16 W 101st, New York
Nygard, Alfred F., 68 Cass, Detroit, Mich.
Rackle, Geo. & Son, Superior & Rossiter, Cleveland, O.
Richard, Louis, 110 West End av, New York
Schellentrager, Louis F., Seneca & Long, Cleveland, O.

Schneider, F. H., Syracuse, N. Y.
SEIFERT, FRANK A. PLASTIC RELIEF CO., 2621-2627 Dayton, St. Louis, Mo. (See adv. index, end of book)

Shaw & Co., 311 N 15th, Phila., Pa.
Sleep, Elliott & King Co., Inc., 562 W 23d, New York, & 351 Cambridge, Boston, Mass.

Smith, Jos. & Co., 428 E 23d, New York
Stoltzenberg Co., 51 Barclay, New York
Tiffany Studios, 347 Madison av, New York
Tognarelli & Volght, 2310 Chestnut, Phila., Pa.
Van Malderen, F., Jurnonville & Ann, Pittsburg, Pa.
Walter, G. E. Co., 157 E 44th, New York

***Modeling Composition ("Plastilina")**

SOLTMANN, E. G.

(Useful in Every School), 125 E 42d, New York. (See adv. index, end of book)

Models, Trademarks & Monograms (Wood)

Spanger Bros., Newark, N. J.

Models & Experimental Work

(See also Pattern & Model Makers)

Acorn Brass Mfg. Co., 203 Fuiton, Chicago
Alien, Geo. R., 500 N 13th, Phila., Pa. Ill.
Ballard, E. V., Fox bldg, Franklin sq, New York

Balrd Machine Co., Oakville, Conn.
Baltimore Pattern & Model Works (Metal & Wood), 218 N Illinois, Baltimore, Md.
Berggren & Pearson Machine Co., 221 Canal, New York

Boyce, Myron J., 584 Hudson, New York
Chadborn & Bledsoe, Kansas City, Kan.
Dressier, C. E. & Bro., 17 Lexington av, New York

Electric Appliance Co., Waterbury, Conn.
Fanning, J. P. (Pattern Maker), 678 Jefferson av, Brooklyn, N. Y.

Globe Machine & Stamping Co., 3868 Hamilton av, Cleveland, O.

Goodwin & Kintz Co., Winsted, Conn.
Griswold, Geo. M., New Haven, Conn.

Hart, Fred'k, Poughkeepsie, N. Y.
Hervey Machine Works, Kansas City, Mo.
Hurd & Haggin, 316 Hudson, New York
Ideal Machine Works, 257 39th, Brooklyn, N. Y.

Lang, J. Electric Co., 176 E Indiana, Chicago, Ill.

Manufacturers & Inventors Electric Co., 84 Nassau, New York

Manahan, J. Archibald, 1907 Park av, New York

NESTOR MFG. CO. (Inc.) 40 W. 13th, New York. (See adv. index, end of book)

Reeves Mfg. Co., Milford, Conn.
Reliance Machine & Tool Works, St. Louis, Mo.

Risser Mfg. Co., 301 W. Lake, Chicago, Ill.
Sommerfeld Machine & Mfg. Co., 220 2d av, Pittsburg, Pa.

Spindler & Derlinger, Mercer & Coigate, Jersey City, N. J.
Saylor & Fenn Co., 54 Arch, Hartford, Conn.

Tolhurst Machine Works, Fuiton & 6th av., United Electric & Apparatus Co., 200 Summer, Boston, Mass.

Moisteners (Envelope)

McClellan Mfg. Co., Elmira, N. Y.

Moistening Apparatus

(See Textile Machinery)

Molds (Babbitt Metal & Solder)

Fanning, J. P., 678 Jefferson av, Brooklyn, N. Y.

Molds (Bar Lead, Buck Shot & Bullet)

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Arnold-Creager Co. (Hand & Machine), New
Horton Mfg. Co., Painesville, O. London, O.
Louisville Machine Co., Louisville, Ohio
Phenix Manufacturing Co., Humboldt av, cor
Centre, Milwaukee, Wis.
Scott Mfg. Co., 3rd National Bank bldg., St.
Louis, Mo.

Molds (Button)

Hill Bros. & Co., Williamsburg, Mass.

Molds (Capsule)

Kutz & Gift, Allentown, Pa.

***Molds (Concrete)**

AMERICAN CONCRETE CO., 80 William,
New York. (See adv. index, end of book)

Molds (Copper)

(See Molds, Gold & Silver Bullion)

Molds (Cylinder)

BIGELOW, CHENEY WIRE WORKS,
Springfield, Mass. (See adv. index, end of
book)

Clark, H. C., & Son Machine Co., Lee, Mass.
Eastwood Wire Mfg. Co., Belleville, N. J.
Federal Wire Cloth Co., Harrison, N. J.

Molds (Glass House)

American Mold Co., 235 Cherry, Phila., Pa.
Ayars Machine Co., Salem, N. J.
Centre Foundry & Machine Co., Wheeling
W. Va.
Donahue, Thos. J., 1518 Warner, Baltimore.
Md.

Evans Mold & Machine Co., Unlontown, Pa.
McKee, W. S., 109 Carson, Pittsburg, Pa.
Novelty Mold Works (S. Hlpkins, prop.),
Martins Ferry, O.
Parsons, W. P. Mfg. Co., Albany, Ind.
Saltsburg Mold Works, Saltsburg, Pa.
Wheeling Mold & Foundry Co., Wheeling, W. Va.
Yockel, Chas. & Sons, 1220 N Lawrence, Phila.,
Pa.
Zanesville Mold Co., Zanesville, O.

Molds (Gold & Silver Bullion)

Power & Mining Machinery Co., Cudahy
Wis.

Molds (Ingot)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

Eastwood Wire Mfg. Co., Belleville, N. J.
McCormack, J. S. Co., Pittsburg, Pa.
Marshall Foundry Co. (Steel), Pittsburg, Pa.
Penn Engineering Works, New Castle, Pa.
Phila. Roll & Machine Co., Phila., Pa.
Sharon Foundry Co. (Steel), Wheatland, Pa.
Pittsburg Mfg. Co., Pittsburg, Pa.
Riverside Foundry Co., Cleveland, O.
SMITH, J. D. FOUNDRY SUPPLY CO.,
1846 Scranton rd., N. W., Cleveland, O.
(See adv. index, end of book)
Thomas, Jas. E. Co. (Steel), Newark, O.
Union Foundry & Machine Co., Pittsburg, Pa.
United Engineering & Foundry Co. (Steel),
Farmers Bank bldg, Pittsburg, Pa.
West, Thos. D. Foundry Co. (Steel), Sharps-
ville, Pa.
Wheeling Mold & Foundry Co., Wheeling, W.
Va.
Youngstown Foundry & Machine Co., Youngs-
town, Ohio

Molds (Lead Casting)

Eastwood Wire Mfg. Co., Belleville, N. J.
Power & Mining Machinery Co., Cudahy, Wis.

Molds (Lead Hammer)

Field, Chas. H., Providence, R. I.

Molds (Rubber)

Adamson, A., Akron, O.
Akron Foundry Co. (All Sizes & Kinds), Akron,
Ohio
Arnold, W. E., Malden, Mass.
Baker, Wm. H. Trenton, N. J.
Barbour Bros., Trenton, N. J.
Birmingham Iron Foundry, Derby, Conn.
Clark, Edred W., Hartford, Conn.

ELMES, CHAS. F. ENGINEERING

Works, Fulton & Sangamon, Chicago, Ill.
(See adv. index, end of book)
Goodyear Tire & Rubber Co., Akron, O.
Hoggson & Pettis Mfg. Co., New Haven, Conn.
Housatonic Machine & Tool Co., Bridgeport,
Conn.
Sackmann Mfg. Co. (Inc.), 19 Cherry, Akron,
Ohio

Thropp, Jno. E. Sons Co., Trenton, N. J.
Thropp, Wm. R., Trenton, N. J.
Williams Foundry & Machine Co. (Also Dies),
Akron, O.

Molds (Rubber Tire)

ELMES, CHAS. F. ENGINEERING
Works, c Fulton & Sangamon, Chicago, Ill.
(See adv. index, end of book)

Erie Pump & Engine Co. ("Bay State"), Erie,
Pa.

Thropp, Jno. E. Sons. Co., Trenton, N. J.

Molds (Solder)

BLISS, E. W. CO., 19 Adams, Brooklyn,
N. Y. (See adv. index, end of book)

CENTRAL FOUNDRY CO. (Bar. Strap,
etc.; also Extension Valve), 37 Wall,
New York. (See adv. index, end of book)
Eureka Mold Co., Medford, Mass.

Haydenville Co., Haydenville, Mass.
Knipferle, Jno. C. Foundry Co., St. Louis, Mo.
Miller Iron Co., Providence, R. I.

Modern Iron Works (Half Round Bar), Quincy,
Ill.

Mott, J. L. Iron Works, 118 5th av, New
York

Osborne, C. S. & Co. ("C. S. O. & Co."), Har-
rison, N. J.

Sayre, L. A. & Co., Newark, N. J.

Molds (Tack)

Bailey-Farrell Mfg. Co., Pittsburg, Pa.
Creswell, Jas. Mfg. Co., Denver, Colo.
Haydenville Co., Haydenville, Mass.
Knapp Mfg. Co., 22 Frankfort, New York
Mneller, H. Mfg. Co., Decatur, Ill.
Peck Bros. & Co., New Haven, Conn.
Rundle-Spence Mfg. Co., Milwaukee, Wis.
Springfield Brass Co., Springfield, Mass.
Street & Kent Mfg. Co., 41 Fulton, Chicago,
Ill.

Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Molybdenum

(See Ferro-Molybdenum)

Monnot Metals

Duplex Metals Co. (Bars, Rods, Sheets & Wire),
149 B'way, New York. Works, Chester,
Pa.

**Monuments & Statuary
(Bronze)**

(See Bronze Monuments & Statuary)

Mop Sticks & Holders

Acme Washing Machine Co. (With Wringer At-
tached), Columbus, O.
Arcade Mfg. Co. ("Gem," "Freeport," "Ar-
cade," "Standard" Screw, "Trojan," "Fa-
vorite" & "Climax"), Freeport, Ill.
Ely, T. J., Mfg. Co. ("Dandy"), Girard, Pa.
Erie City Mfg. Co. ("Arrow"), Erie, Pa.
Hardware & Woodenware Mfg. Co. ("Brigh-
ton"), 693 B'way, New York
Parks & Parks, Troy, N. Y.
Phillips, A. J. & Co. (Sticks Only), Fenton,
Mich.

Mops

Atlanta Variety Works, Atlanta, Ga.
Arcade Mfg. Co., Freeport, Ill.
Auburn Brush & Mop Co., Auburn, Me.
Bay State Mop Co., Woburn, Mass.
Champlon Mfg. Co., Indianapolis, Ind.
Cook, W. N., Grand Rapids, Mich.
Erie City Mfg. Co. ("Arrow," Self Winding),
Erie, Pa.
Gould, L. L. & Co., Louisville, Ky.
Hamblin & Russell Mfg. Co. ("Champlon"
Self Wringing), Worcester, Mass.
Hilker, E., 330 Grand av., Chicago, Ill.
Huntington, H., Ladoga, Ind.
Long Union Broom Co., Allegheny, Pa.
Meerse, Adrian, Cincinnati, O.
Ohio Mop Pall & Wringer Co., Oxford, O.

Olmsted & Tuttle Co., Chicopee, Mass.
Peerless Mop Co., La Crosse, Wis.
Phillips, A. J., Co., Fenton, Mich.
Stover Mfg. Co., Freeport, Ill.
Toohey, M. J., Co., Fall River, Mass.

Mops (Cotton)

Blakely, Jno. & Son, 1089 Gtn. av, Phila., Pa.
Bromwell Brush & Wire Goods Co., Cincin-
Curtis, Wm. H., Woburn, Mass. natl. O.
Devon Mills (George S. Browne, Prop.), Provi-
Elkin Mfg. Co., Elkin, N. C. dence, R. I.
Estes Mills (Inc.) (Floor & Dish Mops), Fall
River, Mass.
Massasoit Mfg. Co., Fall River, Mass.
Naurath, J. P. & Co., 2 Lispenard, New York
Phillips, A. J., Co., Fenton, Mich.
Stover, Mfg. Co., Freeport, Ill.
Thomaston Mfg. Co. ("Yankee" Self Wring-
ing Mops), Thomaston, N. Y.

Mops (Roofing)

Barrett Mfg. Co., Land Title bldg, Phila., Pa.

Mops (Spring)

Stover Mfg. Co., Freeport, Ill.

Mortar Color Mfrs.

CABOT, SAMUEL, 141 Milk, Boston,
Mass., & 28 Dearborn, Chicago, Ill. (See
adv. index & branch offices, end of book)
Cambria Paint & Color Co. (Ltd.), Johnstown,
Pa.

Chattanooga Paint Co. ("Eclipse"), Chatta-
nooga, Tenn.

Cleveland Iron Ore Paint Co., Cleveland, Ohio
Clinton Metallic Paint Co., Clinton, N. Y.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.

DOGGETT & STANLEY, 101 Beekman,
New York. (See adv. index, end of book)
Erwin, Henry, Bethlehem, Pa.

FRENCH, SAML. H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index,
end of book)

Garry Iron & Steel Co., Cleveland, O.

GROSCHKE, BRUNO & CO., 13 Jones la.,
New York. (See adv. index, end of book)

Horn, A. C., Co., 8 Burling slp, New York
Jamestown Paint & Varnish Co., Jamestown, Pa.
Macneal's Varnish & Color Works, Baltimore,
Md.

Mephram, G. S. & Co., East St. Louis, Ill.

Parker, Preston & Co., Inc., Norwich, Conn.

PECORA PAINT CO., (A. Bowen's
Son, Successor) ("Pecora"), 4th st &
Reading R R, Phila., Pa. (See adv. in-
dex, end of book)

Pittsburg Iron Paint Co. ("Keystone"), Alle-
gheny, Pa.

Ricketson Mineral Paint Works ("Red Brick"),
Milwaukee, Wis.

Rossie Iron Ore Paint Co. (Caloric Red),
Ogdensburg, N. Y.

Semple, Frank G., Bethlehem, Pa.

Toch Bros., 320 5th av, New York

Wells, Jas. M. Co., Ogdensburg, N. Y.

Wilhelm, A. Co., Reading, Pa.

Williams, J. K., & Co., Easton, Pa.

Mortar (Patent Soapstone)

American Soapstone Finish Co., Chester Depot,
Vt.

Mortar (Prepared)

Higginson Mfg. Co. ("Higginson's," for Plas-
tering & Finishing Walls), Newburgh, N. Y.

Mortars (Crushing)

Power & Mining Machinery Co. (Wet or Dry),
Cudahy, Wis.
Wellman-Seaver-Morgan Co., Cleveland, O.

Mortisers (Butt Hinge)

Howells, J. E., Mfg. Co. ("O.-K."), Cincin-
nati. O.

Mortisers (Chain Saw)

New Britain Machine Co., New Britain, Conn.

Mosaic Cube Importers

Duche, T. M. & Sons, 82 Beaver, New York
Jackson, O. D., ft E 105th & East River, New
York

BOCKMAN & SHEPARD, 1265-9 B'way,
New York. (See adv. index, end of book)
Pisan Bros., Astoria (Boro. of Queens), N. Y.
Rossman, Robt., 149 W 24th, New York
Rousset, Albert C., 524 W 50th, New York
Tompkins-Kiel Marble Co., 505 5th av, New York

Mosaics (Ceramic)

Alexander & Reid Co. (Circular), 359 W 26th,
New York
American Mosaic Co., 97 Shelby, Detroit, Mich.
Art Mosaic Works, Zanesville, O.
Borgia Marble Works, 1133 B'way, New York
Bradbury Marble Co., 1229 S 2d, St. Louis, Mo.
Bressler, E. A. Co., 26 Laf. av, Detroit, Mich.
California Marble Mosaic Co., San Francisco, Cal.
Caretti, John & Co., 172 Michigan av, Chicago, Ill.
Cascio, S., 797-803 Lexington, Brooklyn, N. Y.
Cassini Mosaic Tile Co., 10 E 7th, Cincinnati, Ohio

CURRIER, E. BRADLEY, CO., 119 W. 23d,
& 114 W. 24th, New York. (See adv. index, end of book)

Davis Marble Co., 214 S. 24th, Phila., Pa.
Davis Marble Co., 302 Michigan av, Chicago, Ill.

Donna, J. P. Tile Co., 1634 Park av, New York.
Federal Tile Co., 131 W. 24th, New York
Hawes & Dodd, 24 Adams, Chicago, Ill.
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.

Kramig, R. E. & Co., 234 E 6th, Cincinnati, Ohio

Lage, (Mrs.) Bernard H., 484 Greenwich, New York.
Lorenzen, Chas. F. & Co., 278 N. Ashland av, Chicago, Ill.

Manhattan Glass Tile Co., 218 7th av., New York
Mion Bros., Atlanta, Ga.
Murdoch-Shaw Co., Boston, Mass.

Pellarin & Co., 82 Greenwich av, New York
Rossman, Robt., 149 W 24th, New York
Sharpless & Watts, 15th & Walnut, Phila., Pa.
Stoltzenberg & Co., 51 Barclay, New York
Tiffany Studios, 347 Madison av, New York
Toscani, J. A. & Co., 154 E 33d, New York
Traitel Bros. & Co., 44 E 19th, New York
Venetian Mosaic & Granitoid Co., 2241 Clark av, St. Louis, Mo.

Weary & Beck, 164 Dearborn, Chicago, Ill.

Mosaics (Glass)

Assembled Tile & Slab Co. (Cut Glass, all Colors), S 16th & Muriel, Pittsburg, Pa.
BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)

Church Art Work Co., 151 E 18th, New York
Giannini & Hilgart, 211 E Madison, Chicago, Ill.
Janes, Walter Co. (New Process), 138 W 42d, New York

McLaury, D. H. Marble Co., Walnut av nr 141st, New York
Manhattan Glass Tile Co., 218 7th av., New York

Norcross Co., 1264 Riverbed, Cleveland, O.
Shipway, John H. & Bro., ft. E 136th, New York

Stoltzenberg Co., 52 Barclay, New York
Tiffany Studios, 347 Madison av, New York
Toscani, J. A. & Co., 154 E 33d, New York

Mosaics (Marble)

American Mosaic Co., 386 Commercial, Boston, Mass.
American Mosaic & Tile Co., Louisville, Ky.

BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)

Belfi Bros. & Co., 22 S 19th, Phila., Pa.
Boote, Alfred Co., 114 W 30th, New York
Borgia Marble Works, 1133 B'way, New York
Bowker, Torrey & Co., 55 Chardon, Boston, Mass.

Buchanan, Jas. M., 2047 Market, Phila., Pa.
Calkins, S. H. Co., 305 N Greene, Baltimore, Md.

Caretti, John & Co., 172 Michigan av, Chicago, Ill.
Cascio, S., 797-803 Lexington av., Brooklyn, N. Y.

Cassini Mosaic & Tile Co., 10 E 7th, Cincinnati, O.
Church Art Work Co., 151 E 18th, New York

Corning, John Herbert, Washington, D. C.
Crawley, George E. & Son, 1 Somerset, Boston, Mass.

CURRIER, E. BRADLEY, CO., 119 W. 23d,
& 114 W. 24th, New York. (See adv. index, end of book)

Daly, Jas. C. & Co., 1626 Chestnut, Phila., Pa.
Daprato Statuary Co., 173 W. Adams, Chicago, Ill.

Davidson Bros. Marble Co., ft. of Orleans, Chicago, Ill.
Davis, J. W., Newport News, Va.

Davis Marble Co., 214 S 24th, Phila., Pa.
Davis Marble Co., 302 Michigan av, Chicago, Ill.

De Paoli Mosaic Association, 7 W 7th, Boston, Mass.

Des Moines Marble & Mantel Co., Des Moines, Ia.

Detrick, E. J. Co., 345 4th av, Pittsburg, Pa.
Drake Marble & Tile Co., Minneapolis, Minn.

Empire City Marble Co., 90 West, New York
Federal Tile Co., 131 W. 24th, New York
Fisher, Robert C. Co., E 139th & Locust av, New York

Great Western Marble Works Co., Cincinnati, Ohio

Hall-Kline Co., 1927 Market, Phila., Pa.
Hawes & Dodd, 24 Adams, Chicago

Hutchinson, Wm. Seely, Washington, D. C.
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.

Iversen, J. C. Co., 425 E. Water, Milwaukee, Wis.

JACKSON, WM. H. COMPANY, 29 E
17th (Union sq.), New York & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)

Keating, M. & Sons Co., 224 Wash'n, Chicago, Ill.

Kramig, R. E. & Co., 234 E 6th, Cincinnati, O.
Lamb, J. & R. (Inc.), 25 6th av, New York

Lautz Co., 861 Main, Buffalo, N. Y.
Lorenzen, Chas. F. & Co., 278 N Ashland av, Chicago, Ill.

McLaury Tile Co., 103 Park av, New York
Marblethic Co., Dayton, O.

Marcus Bros. Co., Memphis, Tenn.
Mart & Lawton, 1123 B'way, New York

Marthens, Chester N. Co., 701 W 53d, Chicago, Ill.

Mion Bros., Atlanta, Ga.
Mosaic Marble & Enamel Co., ft Hudson, Buffalo, N. Y.

Motley, Peter, 750 S Broad, Phila., Pa.
Murdoch-Shaw Co., Boston, Mass.

National Mosaic Co., 338 Pennsylvania av, N W, Washington, D. C.
New England Marble Mosaic Co-Operative Co., 147 Orleans, E. B., Boston, Mass.

Norcross Co., 1264 Riverbed, Cleveland, O.
Northwestern Marble & Tile Co., Minneapolis, Minn.

Pellatin & Co., 82 Greenwich av, New York
Peoria Stone & Marble Works, Peoria, Ill.

Pickel Marble & Granite Co., 1901 N B'way, St. Louis, Mo.
Pittsburg Marble Mosaic Co., 3448 Penn av, Pittsburg, Pa.

Rinaldi, L. L. & Co., 263 Atlantic av, Boston, Mass.

Rossman, Robert, 149 W 24th, New York
Salagona & Co., 306 W 13th, New York

Sharpless & Watts, 15th & Walnut, Phila., Pa.
Sherman-Flavin Marble Co., 2519 State, Chicago, Ill.

Shipway, Jno. H. & Bro., Locust av & E 136th, New York
Southern Marble & Stone Co. (Venetian, Roman & Ceramic), Jacksonville, Fla.

Stanton, Bartley A., Cranston, R. I.
Stearns & Waterman, 90 Canal, Boston, Mass.

Stoltzenberg Co., 51 Barclay, New York
Thorman, Jno. H. & Co., 12 McClellan, Baltimore, Md.

Tiffany Studios, 347 Madison av, New York
Toscani, J. A. & Co., 154 E 33d, New York

Traitel Bros. & Co., 44 E 19th, New York
Twin City Tiling Co., 16 North av, Pittsburg, Pa.

Venetian Marble. Mosaic Art Co., 98 Brush, Detroit, Mich.
Venetian Mosaic & Granitoid Co., 2241 Clark av, St. Louis, Mo.

Vincent-Barstow Co., 725 Euclid av, Cleveland, O.
Vulcanite Tile & Mosaic Co., 54 N 6th, Phila., Pa.

Wadsworth, Chester J., 5806 Euclid av, Cleveland, O.
Weary & Beck, First National Bank bldg, Chicago, Ill.

Weller, Anton, 566 B'way, Albany, N. Y.
White & Whitmore, 424 Asylum, Hartford, Conn.

Wilson, A. P. Co., Perry bldg, Phila., Pa.
Young, B. P. Co., Frick bldg, Pittsburg, Pa.

Mosaics (Roman & Venetian)

Art Mosaic & Tile Co., Toledo, O.
BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg, 42d st, New York. (See adv. index, end of book)

Cassini Mosaic & Tile Co., 10 E 7th, Cincinnati, O.

CURRIER, E. BRADLEY, CO., 119 W. 23d,
& 114 W. 24th, New York. (See adv. index, end of book)

Fisher, Robt. C. & Co., E 139th & Locust, New York

Hyde, F. A. Tiling Co., 113 E 27th, New York
Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.

JACKSON, WM. H. COMPANY, 29 E
17th (Union Sq.), New York, & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)

Mion Bros., Atlanta, Ga.
Mosaic Marble & Enamel Co., Buffalo, N. Y.

Murdoch-Shaw Co., Boston, Mass.
Pellarin & Co., 82 Greenwich av, New York

Sharpless & Watts, 15th & Walnut, Phila., Pa.
Tiffany Studios, 347 Madison av, New York

Toscani, J. A. & Co., 153 E 33d, New York
Traitel Bros. & Co., 44 E 19th, New York
Venetian Mosaic & Granitoid Co., 2241 Clark av, St. Louis, Mo.

Vulcanite Tile & Mosaic Co., 54 N 6th, Phila., Pa.

*Mosquito Netting (Brass, Bronze & Copper)

HUNGERFORD, U. T. BRASS & COP-
per Co., 497 Pearl, New York

Moss

American Fiber Co., Jacksonville, Fla.
Atkins & Dubrow, 160 Pearl, New York
Lounsbury, G. H. & Sons, Cincinnati, O.
Payne & Co., Dayton, O.

Moss (Irish)

Haskins, L. M., 10 Long wharf, Boston, Mass.
Keller, Robert, 324 N 2d, Philadelphia, Pa.
Kiewert, Chas. L. Co., Milwaukee, Wis.
Schwenker, W. M., 342 E 92d, New York

Moss (Peat)

Atkins & Dubrow ("O. K. Holland"), 160 Pearl, New York

Baker, John E., Garrett, Ind.
Jackson, H. H. (Mfrs.' Agent), 29 B'way, New York

Moss (Sea)

Payne & Co., Dayton, O.
Selle, H. W. & Co., 216 Lake, Chicago, Ill.

Moss (Tree)

Borgwardt & Ernst Co., 292 W Chicago av, Chicago, Ill.

Charleston Fibre Co., Charleston, S. C.
Foreich & Co., Morgan City, La.

Giles, Geo. & Co., Ocala, Fla.
Kohlman, Louis, New Orleans, La.

Luce, Geo. D., New Orleans, La.
Phoenix Furniture Co., Charleston, S. C.

Schloss, E., Baton Rouge, La.
Theard, Septime L., New Orleans, La.

Motor Boat, Launch & Yacht Builders

(For Designers, see Architects, Naval;
See also Ship Builders)

Abercrombie & Fitch Co. (Motor Canoes), 57 Reade, New York

Adams, W. Irving & Son, East Boothbay, Me.
American Boat & Machine Works (Launches, Canoes, Boats, etc.), 3515 S. 2d, St. Louis, Mo.

American Gasoline Motor Co., Baldwinsville, N. Y.

Atlantic Co. (Power Boats, Dory Skiffs, Launches, etc.), Amesbury, Mass.

Benton & Son (Launches), La Crosse, Wis.
Bridgeport Motor Co., Bridgeport, Conn.

Camden, Anchor-Rockland Machine Co., Rockland, Me.
Carleton Boat & Canoe Co. (Boats & Canoes), Old Town, Me.

Chadakoin Boat Co., Jamestown, N. Y.
 Cooley Mfg. Co., Waterbury, Vt.
 Daimler Mfg. Co., Steinway av, Long Island City, N. Y.
 De Mooy Bros., 1831 E. 55th, Cleveland, O.
 Derr, Ralph (Yachts, Launches, Tow Boats, Steel Barges, etc., For Export, a Specialty), Mariners' Harbor, S. I., N. Y.
 Detroit Boat Co. (Gasoline, Wooden Boats, Launches and Canoes), Detroit, Mich.
 Detroit River Boat & Oar Co. (Boats, Launches, Yachts, etc.), Wyandotte, Mich.
 Du Brie Motor Co., 34 Bush, Detroit, Mich.
 Dutton Engineering Co., Perth Amboy, N. J.
 Edson Boat Co. (Auto Boats), Skaneateles, N. Y.
 Electric Launch Co. (Motor Boats, Launches & Yachts, Bayonne City, N. J.
 Emmons, E. Gerry, Corp'n, Swampscott, Mass.
 Fairfield Motor Co. (Auto Boats, Launches, etc.), Fairfield, Conn.
 Fay & Brown Engine Co., Geneva, N. Y.
 Fraser Hollow Spar & Boat Co. (Canoes, Launches, etc.), Greenport, L. I.
 Gas Engine & Power Co. & Chas. L. Seabury Co., Cons. (Naphtha, Alco-Vapor & Gasoline Auto Boats & Launches & Steam & Sail Yachts), Morris Heights, New York, N. Y.
 Globe Iron Works Co., Menominee, Wis.
 Godshalk, E. H., Co., Camden, N. J.
 G. R. Gas Engine & Yacht Co. (Launches, Yachts, etc.), Grand Rapids, Mich.
 Hampton Roads Boat Building Co., Newport News, Va.
 Hansen, A. (Motor Boats & Launches), City Island, N. Y.
 Hasbrouck Motor Works, New London, Conn.
 Hepburn, J. W. (Launches, Boats, etc.), Toledo, O.
 Herreshoff Mfg. Co. (Yachts, etc.), Bristol, R. I.
 Higgins & Gifford Boat Building Co., Gloucester, Mass.
 Hollander & Tangeman ("Flat" Motor Boats), 3 W 45th, New York
 Horton, Boats (Inc.), Rochester, N. Y.
 Horton Mfg. Co., Painesville, O.
 Hubbard Motor Co., Middletown, Conn.
 Hunter-Weckler Boat Co. (Motor Boats, Launches, etc.), McHenry, Ill.
 Huntington Mfg. Co. (Yachts), New Rochelle, N. Y.
 Jacob, Robert (Yachts), City Island, N. Y.
 Jones & La Borde Co., Oshkosh, Wis.
 Judkins Show Case Co., E Providence Centre, R. I.
 King Folding Canvas Boat Co., Kalamazoo, Mich.
 Lake Shore Engine Works (Motor Boats, Launches, etc.), Marquette, Mich.
 Lake Torpedo Boat Co. (Submarine Boats), Bridgeport, Conn.
 Lamb Boat & Engine Co., Clinton, Iowa
 Lane & De Groot Co., 17 Battery pl., New York
 Lawley, Geo. & Son Corporation, South Boston, Mass.
 Leyare Boat Works, Ogdensburg, N. Y.
 Lozier Motor Co. (Motor Boats, Launches, etc.), 55th & B'way, New York
 Mack Bros. Motor Car Co. (Motor Boats), Allentown, Pa., & Brooklyn, N. Y.
 Madison Boat Co., Madison, Wis.
 Matinecock Launch & Power Co., Oyster Bay, L. I., N. Y.
 Matthews Boat Co., Port Clinton, Ohio
 Medart, Fred (Launches, Boats, etc.), 3535 DeKalb, St. Louis, Mo.

Michigan Steel Boat Co. (Steel Launches, Row Boats, Canoes, etc.), 1250 Jefferson av. Detroit, Mich.
 Miller, Geo. H. & Co. (Yachts), Patchogue, N. Y.
 Milton Boat Works (Boats, Yachts, etc.), Rye, N. Y.
 Minnesota Boat & Power Works, Stillwater, Minn.
 Moore Boat Works (Auto Boats, Launches, etc.), Wayzata, Minn.
 MULLINS, W. H. CO. (Pressed Steel), 341 Franklin, Salem, O. (See adv. index, end of book)
 Murray & Tregurtha Co. (Yachts, Launches, etc.), 340 W 1st, So Boston, Mass.
 Neptune Launch & Mfg. Co. (Motor Boats & Launches), Evansville, Ind.
 Neumeister, F. P., Rockford, Ill.
 New York Kerosene Oil Engine Co., 31 Burling Slip, New York.
 New York Yacht, Launch & Engine Co., Morris Heights, New York, N. Y.
 Nilson Yacht Bldg. Co., Baltimore, Md.
 Nock, F. S. (Boats, etc.), East Greenwich, R. I.
 Osborn, W. R., Croton on Hudson, N. Y.
 Outing Boat Co. (Launches, Boats, etc.), 108 La Salle, Chicago, Ill.
 Palmer Bros., Cos Cob, Conn.
 Panhard & Levassor Auto Co. (Motor Boats & Launches, etc.), B'way & 62nd, New York
 Peo, Leon L. & Co. (Launches, etc.), Cape Vincent, N. Y.
 Perkins Launch & Motor Co. ("Ronomor" Launches), Gloucester, Mass.
 Phila. Boat & Engine Co., 1015 N. Front, Phila., Pa.
 Pierce Engine Co., Racine, Wis.
 Pioneer Boat & Pattern Co., Bay City, Mich.
 Pope Mfg. & Construction Co., Fond du Lac, Wis.
 Portland Ship Building Co. (Motor Boats, Launches, Yachts), Portland, Me.
 Pungs-Finch Co. (Motor Boats, Yachts, etc.), 1524 Jefferson av, Detroit, Mich.
 Pussey & Jones Co. (Yachts), Wilmington, Del.
 Racine Boat Mfg. Co., Muskegon, Mich.
 Ray Car Motor Boat & Machine Co., Inc., College Point, L. I., New York
 Reardon, M. F. (Designer & Builder of Boats, Yachts & Launches), Rockaway av. c. Sea View av., Brooklyn, N. Y.
 Rice, John V. Jr. & Co. (Auto Boats, Launches, etc.), Bordentown, N. J.
 Ripley Hardware Co. (Galvanized Steel Launches), Grafton, Ill.
 Ruddock, W. F. (Auto Boats, Launches, etc.), 12 W. 141st, New York
 Rushton, J. H. (Boats, Canoes, etc.), Canton, N. Y.
 Seaman Motor & Launch Co. (Motor Boats), Branchport, N. J.
 Shaefer Mfg. Co., Berlin, Wis.
 Sheidon Yacht & Power Boat Corp., Neponset, Boston, Mass.
 Stamford Motor Co. (Inc.) (Launches, Motor Boats, etc.), Stamford, Conn.
 Standard Motor Construction Co. ("Standard" Motor Boats & Launches), Jersey City, N. J.
 Stearns & McKay (Launches, Yachts, etc.), Marblehead, Mass.
 St. Joseph Boat Mfg. Co., St. Joseph, Mich.
 St. Paul Boat Co. (Motor Boats & Launches), St. Paul, Minn.

Strawbridge Motor Co. ("Peerless" Motor Canoes), 1316 Continental bldg., Baltimore, Md.
 Stuart, John & Co., Wollaston, Mass.
 Superior Launch Co., Kalamazoo, Mich.
 Susquehanna Marine Works Co. (Yachts, Boats, Launches, etc.), Havre de Grace, Md.
 Thropp, Jno. E., Sons Co. (Yachts), ft Lewis, Trenton, N. J.
 Toppan Boat Mfg. Co. (Dories, Launches, etc.), 7 Hacerhill, Boston, Mass.
 Truscott Boat Mfg. Co. ("Truscott" Motor Boats, Launches, etc.), St. Joseph, Mich.
 Tuttle, D. M. & Co. (Launches), Canastota, N. Y.
 Weller's, Hiram Sons, Trenton, N. J.
 Western Launch & Motor Co. (Steam Motor Boats, Launches, etc.), W 210th c Emerson, New York
 Williams-Whittelsy Co. (Motor Boats, Steam Yachts, etc.), ft Steinway av, Long Island City, N. Y.
 Winona Machine & Boat Works (Launches), Winona, Minn.
 Wright, U. G., Paulsboro, N. J.

Motor Cloth

Standard Paint Co. (Ruberoide), 100 William, N. Y.

*Motor Cycle Parts

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Motor Cycles

(See also Bicycle Manufacturers)

American Motor Co. ("Marsh"), Brockton, Mass.
 Armac Motor Co. (Armac), 472 Carroll av, Chicago, Ill.
 Aurora Automatic Machinery Co. ("Thor"), Auto-Bi Co., Buffalo, N. Y.
 Bradley Motor Co., 268 Diamond, Phila., Pa.
 Brown & Beck ("Apache"), Denver, Colo.
 Consolidated Mfg. Co. ("Yale," "California"), Toledo, O.
 Chicago Motor Cycle Works ("Meteor"), 2436 Southport av, Chicago, Ill.
 Crouch Motor Co., Stoneham, Mass.
 Curtiss, G. H. Mfg. Co., Hammondsport, N. Y.
 Emblem Mfg. Co., Angola, N. Y.
 Excelsior Supply Co. ("Excelsior"), 233 Randolph, Chicago, Ill.
 Grube, J. W. ("Delaware"), Delaware, O.
 Harley-Davidson Motor Co., 317 37th, Milwaukee, Wis.
 Hendee Mfg. Co. ("Indian"), 214 Worthington, Springfield, Mass.
 Hilaman, A. L. Co., Moorestown, N. J.
 Hornecker Motor Co. ("Torpedo"), Geneseo, Ill.
 Magnet Motor Co. 302 Michigan av., Chicago, Ill.
 Merkel-Light Motor Co. ("Merkel-Light"), Pottstown, Pa.
 Miami Cycle & Motor Mfg. Co., Middletown, O.
 Minneapolis Motor Cycle Co., Minneapolis, Minn.
 Motor Cycle Equipment & Supply Co. ("Erie"), Hammondsport, N. Y.
 N. S. U. Motor Co., 206 W 76th, New York
 New Era Gas Engine Co., Dayton, O.
 Orvington Motor Co. ("F. N."), 2234 B'way, New York

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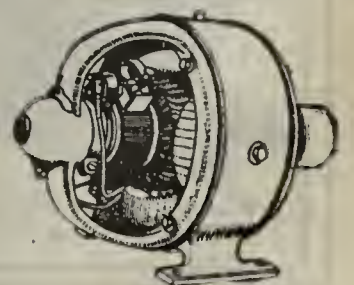
Constant and Variable Speed D.C. Motors, 1-16 to 15 H. P.
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Prospect Motor Co. ("Simples"), 1900 B'way, New York
Puch Import Co., Princeton, N. J.
Reading Standard Co. ("R.-S."), Reading, Pa.
Reliance Motor Cycle Co., Owego, N. Y.
Royal Motor Works, Worcester, Mass.
Ruggles, H. B., 75 Hicks, Brooklyn, N. Y.
Shaw Mfg. Co., Galesburg, Kan.
Thiem Mfg. Co., Columbia Heights, Minn.
Wagner Motor Cycle Co., 227 St. Peter, St. Paul, Minn.
Walton Motor Co. ("Midget Bi-Car"), Lynbrook, L. I., N. Y.

Motor Lifts

(See Lifts)

Motor Speed Regulators

(See Controllers)

Motor Starters

(See Rheostats)

Motors (Air)

Clark, E. R., Hartford, Conn.
Dake Engine Co. ("Dake Reversible"), Grand Haven, Mich.
DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Underwood, H. B. & Co., 1025 Hamilton, Phila., Pa.

Motors (Alternating Current)

(For Motors, Direct Current, see Firms in Dynamo & Motor Mfrs. with the word Direct following their name)

Advance Electric Co., St. Louis, Mo.
ALLIS-CHALMERS CO. ("Bullock"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Bell Electric Motor Co., 133 Liberty, New York.
Blissell, F. Co. (Small Motors), Toledo, O.
Burke Electric Co., Erie, Pa.
Century Electric Co., St. Louis, Mo.
Crocker-Wheeler Co., Ampere, N. J.
Emerson Elec. Mfg. Co., St. Louis, Mo.
Engineering Specialty Co. (Small), Stamford, Conn.

FAIRBANKS, MORSE & CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Fidelity Elec. Co. ("Eclipse"), Lancaster, Pa.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Holtzer-Cabot Electric Co., Brookline, Mass.
Kimble Electric Co. ("Kimble-Gregory"), 324 W Washington, Chicago, Ill.

Lincoln Electric Co., Cleveland, O.
Phoenix Electric Co., Mansfield, O.
Richmond Electric Co., Richmond, Va.
Roth Bros. & Co., 27 S Clinton, Chicago, Ill.
Snyder Elec. Mfg. Co., Canal, Dover, O.
Star Dynamo & Co., Jefferson City, Mo.
Triumph Electric Co., Cincinnati, O.
Wagner Electric Mfg. Co., St. Louis, Mo.
Warren Electric Mfg. Co., Sandusky, O.

WESTINGHOUSE ELEC. & MFG. CO., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Motors (Automobile)

(See Engines, Automobile; also Engines, Gas or Gasoline; also Engines, Marine, Gasoline; also Motors, Electric)

Motors (Battery or Toy)

Carlisle & Finch Co., Cincinnati, O.
Elbridge Electrical Mfg. Co., Elbridge, N. Y.
Geen Electrical Mfg. Co. ("Success" Dynamo Motor), 180 Lake, Chicago, Ill.

Ithaca Elec. Novelty Co. ("Rlenco"), Ithaca, N. Y.
Jones & Gross Elec. Co., 62 Vesey, New York
Kendrick & Davis ("Porter," "Ajax," "K. & D.," "Kent," "Tesla," "Rex," "Standard," "Manchester," "Juno"), Lebanon, N. H.

Lionel Mfg. Co. ("New Departure"), 4 White, New York

Niagara Specialty Works, Manlius, N. Y.
Ohio Electric Works ("Albert"), Cleveland, O.
Swope, Henry R., 120 N 7th, Phila., Pa.
Voltamp Electric Mfg. Co., Baltimore, Md.
Williams, E. Q., Syracuse, N. Y.
Wizard Co. (Sales Dept. Jove Mfg. Co.), 32 W Quincey, Chicago, Ill.

Motors (Buffing)

Dilig Mfg. & Trading Co. ("Acme," for Polishing & Refinishing Silverware & other Metal Ware for Hotels, Clubs, etc.), 663 E 163d, New York

Holtzer-Cabot Electric Co. (Electric Alternating Grinding & Buffing), Brookline, Mass.
Northwestern Mfg. Co. ("Browning"), Milwaukee, Wis.

Robbins & Myers Co. (The), Springfield, O.
Snyder Electric Mfg. Co., Canal Dover, O.

Motors (Dental)

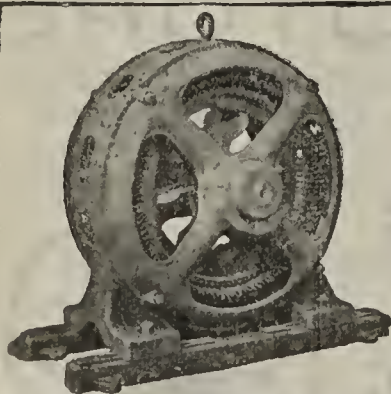
Holtzer-Cabot Electric Co. (Electric), Brookline, Mass.
Robbins & Myers Co. (The), (Direct Current), Springfield, O.

Motors (Direct Current)

(See Dynamo & Motor Manufacturers)

* Motors (Direct Current Railway)

WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank Bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)



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Motors (Electric)

(See also Dynamo & Motor Manufacturers)

Aaron Electric Co. (Direct Current), 141 S Clinton, Chicago, Ill.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Bell Electric Motor Co. (Single Phase Alternating & Direct), 133 Liberty, New York
 Benton, Thos. P. & Son ("Multi-Polar" & "Bi-Polar" Direct Current), La Crosse, Wis.
 Burke Electric Co. (Direct & Alternating), Erie, Pa.
 Century Electric Co. ("Century," Single Phase), 404 N 4th, St. Louis, Mo.
 Cushman Elec. Co., ("Cushman"), Concord, N.H.



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Dayton Electrical Mfg. Co. (Up to 1-8 H. P.), Dayton, O.
 Eck Dynamo & Motor Works (Types 1-32 to 20 H. P.), Belleville, N. J.
 Elwell-Parker Electric Co. (Slow Speed), Cleveland, O.
 Emerson Electric Mfg. Co., 2030 Wash'n av, St. Louis, Mo.
FAIRBANKS, MORSE & CO. (Alternating & Direct Current), Wabash av & Eldredge pl
 Federal Electric Co. (For General Power Purposes), North Girard, Pa.
 Fidelity Electric Co. (1-20 to 20 H. P.), Lancaster, Pa.
 Garden City Fan Co., Fisher Bldg., Chicago, Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, N. Y. (See adv. index & branch offices, end of book)
 Guarantee Electric Co. ("Kimbly-Gregory"), Chicago, Ill.
 Ideal Electric & Mfg. Co. (Alternating Current, Single Phase, Elevator, etc.), Mansfield, O.
 Imperial Electric Co. (Constant & Variable Speed, Smallest up to 75 K. W.), Akron, Ohio
 Jantz & Leist Electric Co. (Enclosed Type, 1 1/2 to 15 h. p.), 808 Elm, Cincinnati, O.
 Kinetic Electric Co., 16 S. Schell, Phila., Pa.
 Lincoln Electric Co. (Small), Cleveland, O.
MECHANICAL APPLIANCE CO. ("Watson" Direct Current, Single & Polyphase Alternating), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 National Brake & Electric Co. ("Ceco"), Milwaukee, Wis.

New England Motor Co., Lowell, Mass.
 Northern Electrical Mfg. Co. (1/2 to 2 h-p.), Madison, Wis.
 Northwestern Mfg. Co. ("Browning"), Milwaukee, Wis.
 Parsell & Weed ("Alvord"), 129 W 31st, New York
OTIS ELEVATOR CO., 17 Battery pl, New York. (See adv. index & branch offices, end of book)
PHOENIX ELECTRIC COMPANY (Direct & Alternating), Mansfield, O. (See adv. index, end of book)
 Portland Co. (Slow Speed), Portland, Me.
 Reliance Electric & Engineering Co. (Variable Speed), Cleveland, O.
 Richmond Electric Co. (1 to 50 h-p., Direct Current), Richmond, Va.
 Robbins & Myers Co. ("Standard"), Springfield, O.
 Rossmassler-Bonine Electric Co., 1236 N. Orkney, Phila., Pa.
 Snyder Electric Mfg. Co. (1-30 to 3 H. P.), Canal Dover, O.
 Sprague Electric Co. (Direct Current), 527 W. 34th, New York
 Sterling Electric Motor Co. (Small Direct Current, up to 15 h-p.), Dayton, O.
 Stow Mfg. Co. (Multi-Speed), Binghamton, N. Y.
 Sturtevant, B. F. Co., Hyde Park, Mass.
 Submerged Elec. Motor Co., Menominee, Wis.
 Swing Electric Co. (1/4 to 15 H. P.), Cincinnati, O.
 United Pump & Power Co. ("Thompson"), Old Colony bldg., Chicago, Ill.
 Wagner Electric Mfg. Co. ("Schuler") Single Phase Alternating, etc., St. Louis, Mo.
 Western Electric Co. (Direct & Alternating), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELEC. & MFG. CO. (Direct Current), Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
 Whittingham Mfg. Co., Baltimore, Md.

Motors (Electric Crane)

Crocker-Wheeler Co., Ampere, N. J., & 39 Cortlandt, New York
GENERAL ELECTRIC CO., Schenectady, N. Y., 30 Church, New York. (See adv. index & branch offices, end of book)
MECHANICAL APPLIANCE CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)
 Sprague Electric Co., 527 W. 34th, New York
 Western Electric Co., 259 S. Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELEC. & MFG. CO., Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Electric Elevator)

Crocker-Wheeler Co., Ampere, N. J., & 39 Cortlandt, N. Y.
 Federal Electric Co., North Girard, Pa.
 Ideal Electric & Mfg. Co. (Ideal Special), Mansfield, O.
 Imperial Electric Co., Akron, O.

Lincoln Electric Co., Cleveland, O.
MECHANICAL APPLIANCE CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Northwestern Mfg. Co. ("Browning" Reversible), Milwaukee, Wis.
PHOENIX ELECTRIC COMPANY (Direct & Alternating), Mansfield, O. (See adv. index, end of book)
 Portland Co., Portland, Me.
 Robbins & Myers Co. (The), Springfield, O.
 Triumph Electric & Ice Machine Co. ("Triumph"), 610 Baymiller, Cincinnati, O.
 Wagner Electric Mfg. Co. (Alternating Current), St. Louis, Mo.
WARNER ELEVATOR MFG. CO., Spring Grove av, Alfred & Valley, Cincinnati, O., & 1183 B'way, New York. (See adv. index & branch offices, end of book)
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Electric Fan)

Colonial Fan & Motor Co., Warren, O.
 Emerson Electric Mfg. Co. (Alternating, Desk Bracket & Ceiling), 2030 Wash'n av, St. Louis, Mo., & 136 Liberty, New York
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
MECHANICAL APPLIANCE CO. (Direct & Alternating Current, Ventilating), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Menominee Electric Mfg. Co., Menominee, Mich.
 Peerless Electric Co., Warren, Ohio.
PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)
 Ravenna Lamp Works (Direct Current, Desk & Ceiling), Ravenna, O.
 Robbins & Myers Co. ("Standard"), Springfield, Ohio
 Sprague Electric Co., 527 W. 34th, New York
 Towle, Geo. C. Mfg. Co., Lancaster, Pa.
 Warren Electric & Specialty Co., Warren, O.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELEC. & MFG. CO., Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Electric, for Flexible Shaft)

Snyder Electric Mfg. Co., Canal Dover, O.
 Sprague Electric Co., 527 W. 34th, New York
 Stow Flexible Shaft Co., Phila., Pa.

*Motors (Electric Mining)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
WESTINGHOUSE ELEC. & MFG. CO., Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)



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THEY OPERATE EFFICIENTLY.

ASK FOR BULLETIN 106

PHOENIX ELECTRIC CO., MANSFIELD, OHIO

Motors (Electric Railway)

(See Generators, Street Railway)

***Motors (Electric, Single Phase Railway)**

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Electric Toy, Etc.)

(See Motors, Battery & Toy)

Motors for Automatic Pianos, Etc.

(See Motors, Organ)

Motors (Gasoline)

(See Engines, Automobile; also Engines, Gas or Gasoline; also Engines, Marine, Gasoline)

Motors (Gasoline, Farm)

Ivel Agricultural Motor Co. ("Ivel"), Stock Exchange bldg., Chicago, Ill.
 Thomas Wagon Co., Vernon, N. Y.

***Motors (Gasoline Turntable)**

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Motors (Induction)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
GENERAL ELECTRIC CO. (Alternating Current), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

MECHANICAL APPLIANCE CO. (1/4 to 10 H. P.), Milwaukee, Wis. (See adv. index & branch offices, end of book)
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)

Richmond Electric Co. (1 to 50 h-p.), Richmond, Va.
Western Electric Co., 259 S Clinton, Chicago, Ill.

WESTINGHOUSE ELEC. & MFG. CO., Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Naphtha)

Gas Engine & Power Co. & Chas. L. Seabury & Co. (2 & 4 Cycle), Morris Heights, N. Y.

Motors (Organ)

(See also Motors, Water)

American Steam Pump Co. (Hydraulic), Battle Creek, Mich.
Barker, H. R. Mfg. Co., Lowell, Mass.

Bishop & Babcock Co., 49th & Hamilton av., Cleveland, Ohio
Kipp, A., Jr., Ossining, N. Y.

Organ Power Co. ("Spencer"), Water & Electric, Hartford, Conn.
Rhodes, L. E. ("Spencer"), Hartford, Conn.

Roberts, Geo. J. Co., Dayton, O.
Ross Valve Mfg. Co. ("Ross"), Water Engines, Troy, N. Y.

Whitney, F. E. (The Boston), 65 Sudbury, Boston, Mass.

Motors (Organ Blowing, Electric)

Diehl Mfg. Co., Elizabeth, N. J.
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)
Robbins & Myers Co. (The), Springfield, O.
Sprague Electric Co., 527 W. 34th, New York

***Motors (Piano, Automatic)**

MECHANICAL APPLIANCE CO. (Electric), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Motors (Pneumatic)

(See Pneumatic Motors)

Motors (Sewing Machine)

Diehl Mfg. Co., Elizabeth, N. J.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Robbins & Myers Co. (The), Springfield, Ohio
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Single Phase, Electric)

(See Motors, Induction)

***Motors (Synchronous)**

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

***Motors (Textile Machinery)**

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Motors (Valve)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Motors (Variable Speed)

Cushman Electric Co., Concord, N. H.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Imperial Electric Co., Akron, O.
PHOENIX ELECTRIC CO. (Self starting), Mansfield, O. (See adv. index, end of book)
Reliance Electric & Engineering Co., Cleveland, O.

Motors (Water)

Althouse-Wheeler Co. ("Waupun"), Waupun, Wis.

American Water Motor Co. ("American" Automatic), Columbus, O.
Backus Water Motor Co., Newark, N. J.

BLAKE, GEO. F. MFG. CO., 115 Broadway, New York. (See adv. index & branch offices, end of book)

Buckeye Motor Mfg. Co., Dayton, O.
Carlisle & Finch Co., Cincinnati, O.
Cassel Automatic Water Motor Co., Seattle, Wash.

Chicago Water Motor & Fan Co., 40 Dearborn, Chicago, Ill.

Dayton Fan & Motor Co., Dayton, O.
Dicke Tool Co. (For Washing Bottles), Downers Grove, Ill.

Divine Water Motor Co. ("Divine"), Utica, N. Y.

Erwin Hydraulic Machinery Co., 204 Grand av., Milwaukee, Wis.

Gaylord & Eltapence ("Olimax"), Binghamton, N. Y.

General Fire Extinguisher Co., Providence, R. I.

Gilmore Electric Co. ("Little Giant"), 625 E 1st, Boston, Mass.

Hunter Fan & Motor Co. ("Syracuse"), "Tuerk", Fulton, N. Y.

Indiana Fan Co., Indianapolis, Ind.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York. Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Lippincott, S. M. Co., Newark, N. J.
Little, Thos. A., Wheeling, W. Va.

Miller Foundry & Specialty Co. (With Emery & Buffing Wheels), North Tonawanda, N. Y.

Monarch Specialty Mfg. Co. ("Monarch"), Columbus, O.

Organ Power Co. ("Spencer"), Hartford, Conn.

Patterson Tool & Supply Co., Dayton, Ohio
Pelton Water Wheel Co. (Also Direct Connected), Monadnock bldg., San Francisco, Cal., & 80 West, New York

Rhodes, L. E., Hartford, Conn.
Roberts, Geo. J. Co., Dayton, O.

Rosenberg, A. Motor & Mfg. Co. ("Polar," "Arctic"), Baltimore, Md.

Ross Valve Mfg. Co. (For Pumping Organs), Troy, N. Y.

Russell, Jno. W. ("Hercules"), Springfield, Mass.

Spears & Riddle Co. (For Washing Machines), Wheeling, W. Va.

Specialty Mfg. Co., Indianapolis, Ind.
Smith, M. I. (Little Hustler), Bristol, Conn.

Tuerk Water Motor Co., 122 La Salle, Chicago, Ill.

Vaile & Kimes ("V. & K." & "Dayton" Automatic), Dayton, O.

Whitney, F. E., 65 Sudbury, Boston, Mass.

Mouldings (Carved)

American Carving & Mfg. Co. (Carved, Rope & Beaded), 900 Granville av., Grand Rapids, Mich.

Central Planing Mill & Lumber Co., 3d & Q, Louisville, Ky.

Chicago Mill Work Supply Co., cor. 22d & Sangamon, Chicago, Ill.

Dwight Lumber Co. (Also Plain), Rouge River & M. C. R. R., Detroit, Mich.

Foster-Munger Co. (For the Trade Only), W 20th & S Sangamon, Chicago, Ill.

Gauger, Jno. A., & Co., W 22d & Laflin, Chicago, Ill.

Gould Mfg. Co. (For the Trade Only), Oshkosh, Wis.

Grand Rapids Carved Moulding Co., Grand Rapids, Mich.

Hartmann, Malcolm, Co., 13 N. Jefferson, Chicago, Ill.

Hinner's, E. H. Sons, Edgewater, N. J.

Hyde-Murphy Co., Ridgway, Pa.

Leslie, Jno., 138 W 15th, New York

McKay, A., & Co., 325 S. Desplaines, Chicago, Ill.

McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.

Morgan Co. (For the Trade Only), Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.

New York Carved Moulding Co., Rider av & 139th, New York

Ohio Scroll & Lumber Co., Covington, Ky.

Palmer, Fuller & Co., 2244 Lumber, Chicago, Ill.

Pelree, W. E. & Co., Millford, N. H.

Poppert, Geo. Mfg. Co., Milwaukee, Wis.

Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl., Chicago

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Vicker, G. P. Mfg. Co., Louisville, Ky.

Waccamaw Lumber Co., Bolton, N. C.

Waddell Mfg. Co., Grand Rapids, Mich.

Mouldings (Composition)

(See Ornaments, Composition)

Mouldings (Copper, Brass & Bronze)

Ansonia Brass & Copper Co., Ansonia, Conn.

Bridgeport Brass Co., Bridgeport, Conn.

Coe Brass Mfg. Co., Torrington, Conn.

Cowles, C. & Co. (Inc.) (Brass Door), New Haven, Conn.

GORHAM CO. ARCH'L BRONZE, 5th & 38th, New York; Works: Providence, R. I. (See adv. index, end of book)

HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York

JONES, TREVOR F. & CO., 374 W Broadway, New York. (See adv. index, end of book)

Manhattan Brass Co., 334 E 28th, New York

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Rome Brass & Copper Co., Rome, N. Y., & 100 William, New York

Waterbury Brass Goods Corporation, Waterbury, Conn.

Mouldings (Electric Wiring)

American Circular Loom Co. ("Lutz" Metal), Chelsea, Mass.

Central Mfg. Co., Chattanooga, Tenn.

Foley Mfg. Co., 427 22d, Chicago, Ill.

Improved Moulding Mfg. Co. (Wire Grip), N 21st & Allegheny av., Phila., Pa.

Johns, H. W.-Manville Co. ("Electrobeston" Fire Proof), 100 William, New York

Johnson Bros., 45 Classon av., Brooklyn, N. Y.

K. B. Co., 38 S 6th, Phila., Pa.

Kirkpatrick Mfg. Co. ("Simplex"), 10th & Westmorland, Phila., Pa.

Mitchell Moulding Co., 21st & Morgan, Chicago, Ill.

National Metal Molding Co. (Metal), Pittsburg, Pa.
 Noblett, E. J. Co., 121st & Peoria, Chicago, Ill.
 Planett Lumber & Mfg Co., La Porte, Ind.
 Saulpaugh's, J. M. Sons, 180 Lewis, New York
 Sheip, H. H. Mfg. Co., 529 Columbia av, Phila., Pa.
 Thornton & Co., Holland, Mich.
 Wright, Craycroft & Harty Co., 528 W 21st, Chicago, Ill.

Mouldings (Electrical, Wood)

(See Mouldings, Electric Wiring)

Mouldings (Embossed)

Anderson & Lind Mfg. Co., 181 Iowa, Chicago, Ill.
 Bilek, Stephen Co., 308 S Clinton, Chicago, Ill.
 Boynton & Co., 421 W 15th, Chicago, Ill.
 Chicago Embossed Moulding Co., 598 Austin av, Chicago, Ill.
 Chicago Mill Work Supply Co., cor. 22d & Sangamon, Chicago, Ill.
 Diebold Lumber & Mfg. Co., 99 Wabash, Pittsburg, Pa.
 Fitzgerald, Speer Co., Pen Argyl, Pa.
 Gebhardt, J. F., Calyer & Newell, Brooklyn, N. Y.
 Hyde-Murphy Co., Ridgway, Pa.
 L'Hote Lumber Mfg. Co., n Liberty & Toulouse, New Orleans, La.
 McClelland, T. W. Co., Davenport, Ia.
 Mertz's, Geo. Sons, Porchester, N. Y.
 New York Carved Moulding Co., Rider av & 139th, New York
 Ohio Scroll & Lumber Co., Covington, Ky.
 Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.
 Pierce, W. E. & Co., Milford, N. H.
 Rock Island Sash & Door Works, Rock Island, Ill.
 Stoehr, A. & Co., 305 Findlay, Cincinnati, O.

Mouldings (German Silver)

(See Mouldings, Copper, Brass, Etc.)

Mouldings (Picture)

Cass, B. T. & Co., 40 Union Park, Chicago, Ill.
 Harsha, L. R. Mfg. Co., Carroll av & Robey, Chicago, Ill.
 Larsen, C. & Co., Leavitt & Kinzie, Chicago, Ill.
 Lippe & Co., 328 E 26th, New York
 Lowe, Albert C., Inc., 8 S 10th, Phila., Pa.
 Pape Bros.' Moulding Co., Plum & Charles, Cincinnati, O.
 Raubold & Lambin, 19 N Ann, Chicago, Ill.
 Schock Mfg. Co., 1814 N E 6th, Minneapolis, Minn.
 Schrafft, A., Moulding Co., Bruen & Hamilton, Newark, N. J.
 Webber, J. R. Moulding Co., 21st & Cass av, St. Louis, Mo.

Mouldings (Rope & Twisted, Etc.)

American Carving & Mfg. Co. (Carved, Rope & Beaded), 900 Grandville av, Grand Rapids, Mich.
 Artistic Wood Turning Works, 67 N. Sangamon, Chicago, Ill.
 Boynton & Co., 421 W 15th, Chicago, Ill.
 Chicago Mill Work Supply Co., cor. 22d & Sangamon, Chicago, Ill.
 Doty, G. W. Co. (Turned, Beaded), 107 W Monroe, Chicago
 Ehnborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.
 Ellsworth Hardwood Co. (Also Ball), Ellsworth, Me.
 Essex Wood Turning Co., Essex, Conn.
 Foster-Munger Co. (For the Trade Only), W 20th & S Sangamon, Chicago, Ill.
 Grand Rapids Carved Moulding Co., Grand Rapids, Mich.
 L'Hote Lumber Mfg. Co., N. Liberty & Toulouse, New Orleans, La.
 Mertz's, Geo. Sons, Port Chester, N. Y.
 Michigan Toy & Novelty Co., Holland, Mich.
 Morgan Co. (For the Trade Only), Oshkosh, Wis., & W 22d & S Union, Chicago, Ill.
 New York Carved Moulding Co., Rider av & 139th, New York
 Ohio Scroll & Lumber Co., Covington, Ky.
 Pierce, W. E. & Co., Milford, N. H.
 Prendergast, J., 82 Norton, Chicago, Ill.
 Roberts, E. L. & Co. (For the Trade Only), W 22d & Union pl., Chicago, Ill.
 Rome, Henry Mfg. Co. (Rope & Bead), Newaygo, Mich.
 Waddell Mfg. Co., Grand Rapids, Mich.

Mouldings (Sheet Metal)

AMERICAN METAL DOOR CO., Jamestown, N. Y. (See adv. index, end of book)
 Broschart & Braun, 607 W. 130th, New York
 Chicago Metal Covering Co., 69 N Green, Chicago, Ill.
 DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y., & 299 B'way, New York. (See adv. index & branch offices, end of book)
 EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)
 FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)
 GENERAL FIREPROOFING CO., Youngstown, O. (See adv. index & branch offices, end of book)
 Gerock Bros. Mfg. Co., 1252 Manchester av, St. Louis, Mo.
 Kelley, Wm. J., 448 Adelphia, Brooklyn, N. Y.
 Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
 MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 MULLINS, W. H. CO., 341 Franklin, Salem, O. (See adv. index, end of book)
 St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

*Mouldings (Sheet Steel, Brass & Bronze)

AMERICAN METAL DOOR CO., Jamestown, N. Y. (See adv. index, end of book)
 DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y. (See adv. index & branch offices, end of book)

Mouldings (Spiral)

(See Mouldings, Rope & Twisted, Etc.)

*Mouldings (Steel)

BRAUN, J. G. (for Store Fronts, Stairways, Elevator Enclosures, etc.), 322 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)

*Mouldings (Steel Picture)

AMERICAN METAL DOOR CO., Jamestown, N. Y. (See adv. index, end of book)
 DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y. (See adv. index & branch offices, end of book)

Moulds

(See Molds, Various Kinds)

Mountings (Automobile)

American Auto-Brass Co., Columbus, O.
 Atwood Mfg. Co. (Metal), Amesbury, Mass.
 Auto Brass & Aluminum Co., Flint, Mich.
 Auto Top & Specialty Co. (Rails), B'way & 63d, New York
 Columbus Brass Co. (Dash & Foot Rails), 43 N 4th, Columbus, O.
 Cowles, C. & Co., Water & Chestnut, New Haven, Conn.
 DAHLSTROM METALLIC DOOR CO. (Light Sheet Steel Mouldings), Jamestown, N. Y. (See adv. index, end of book)
 English & Mersick Co., 70 Crown, New Haven, Conn.
 Kinsey Mfg. Co. (Brass Moulding for Steps), Dayton, O.
 Murdock, Jas. (Metal), 116 Opera pl, Cincinnati, O.
 Murphy, G. W. J. Co. (Silver Mouldings), Merriam, Mass.
 Parry, A. N. & Co. (Brass Slats, etc.), Amesbury, Mass.
 Pittsburg Reduction Co., The, Park bldg, Pittsburg, Pa.
 Rands Mfg. Co. (Brass & Nicked Rails), 51-55 Macomb, Detroit, Mich.
 Ritter Mfg. Co. (Brass), Detroit, Mich.
 Smith, Jos. N. & Co. (Brass & Nickel Rails, Tonneau Door Handles & Hinges), 4th & Porter, Detroit, Mich.
 White Mfg. Co. (Mouldings), Bridgeport, Conn.
 Wing, Chas. Co., Amesbury, Mass.
 Woodruff, Walter W., & Sons Co., Mount Carmel, Conn.

Mountings (Umbrella & Parasol)

Novelty Mfg. Co., Waterbury, Conn.

Mower & Reaper Sections

Akron Machine Co., Akron, O.
 Henry & Allen, Auburn, N. Y.
 Herschel, R. Mfg. Co., Peoria, Ill.
 Whitaker Mfg. Co., 30 W. Monroe, Chicago, Ill.
 WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Mowers & Reapers

(See also Agricultural Implement Manufacturers)

Acme Harvester Co. (Mowers), Peoria, Ill.
 Adriance, Platt & Co. (Geared or Chain Mowers & "Adriance" & "Triumph" Reapers), Poughkeepsie, N. Y.
 Akron Machine Co., Akron, O.
 Aultman & Taylor Machinery Co., Mansfield, O.
 Bradley, David Mfg. Co., Bradley, Ill.
 Emerson Mfg. Co., Rockford, Ill.
 Eureka Mower Co., Utica, N. Y.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 International Harvester Co. of America (Reapers Grain, Hemp, Mowers One & Two Horse), Chicago, Ill. Osborne Plant, Auburn, N. Y.
 Johnston Harvester Co., Batavia, N. Y.
 Messinger Mfg. Co., Tatamy, Pa.
 Richardson Mfg. Co. (Mowers), Worcester, Mass.
 Rockford Mfg. Co. ("Ellwood," "Imperial"), Rockford, Ill.
 Selberling & Miller, Doylestown, O.
 Sweet, Geo. Mfg. Co., Dansville, N. Y.
 Thomas Mfg. Co. (Mowers Only), Springfield, O.
 Wayne Works, Richmond, Ind.
 Wood, W. A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

Mucilage Mfrs.

National Gum & Mica Co. ("Jugfull"), 502 W. 45th, New York

Mudguards (Automobile)

(See Fenders & Guards, Automobile)

Muffle Furnace Fronts

Bethlehem Foundry & Machine Co. (For Chemical Mfrs., etc.), South Bethlehem, Pa.

Mufflers (Automobile)

American Auto Brass Co., Columbus, O.
 Auto & Power Appliance Co., Arcade, Cleveland, O.
 Baldwin Chain & Mfg. Co., Worcester, Mass.
 Bates, F. E. & Co. ("Bates"), Northfield, Minn.
 Brennan Motor Co. ("Brennan"), Syracuse, N. Y.
 Briscoe Mfg. Co., Detroit, Mich.
 Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.
 Clemeck-Hirsch Co., 594 National av, Milwaukee, Wis.
 Columbus Screw & Machine Co., 244 Kaiser, Columbus, O.
 Crouch, Chas. P. & Co., 472 Carroll, Chicago, Ill.
 Duryea Power Co., Reading, Pa.
 Federal Auto Co., 1st Nat'l Bank Bldg., Chicago, Ill.
 Fonda, Charles P. ("Davis"), 421 Market, San Francisco, Cal.
 Garford Mfg. Co., Elyria, O.
 Geer, Harry R. & Co. (Motor Cycles), 1017 Pine, St. Louis, Mo.
 Globe Machine & Stamping Co., 368 Hamilton av, Cleveland, O.
 Gray-Hawley Mfg. Co. ("Gray"), 605 W. Fort, Detroit, Mich.
 Hatcher Auto-Parts Co. ("B.-H."), 32 Columbus, Cleveland, O.
 Hayes Mfg. Co., Detroit, Mich.
 Kells, W. J. Mfg. Co., 62 Van Winkle, Jersey City, N. J.
 Kinsey Mfg. Co., Dayton, O.
 Knobloch-Heldeman Mfg. Co., South Bend, Ind.
 KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Le Nonpareil Muffler Co., 286 Taafee pl., Brooklyn, N. Y.
 Loomis Autocar Co., Westfield, Mass.
 McClure-Buchner Co., 911 S Homan av, Chicago, Ill.
 Mayo Damper Co., Pottstown, Pa.
 Milwaukee Auto Engine & Supply Co., 706 Winnebago, Milwaukee, Wis.
 Milwaukee Motor Co., 615 Clybourn, Milwaukee, Wis.
 Motor Car Power Equipment Co., 577 Grove, Milwaukee, Wis.
 Murray, W. B., 1253 Milwaukee av, Chicago, Ill.

Neustadt Automobile & Supply Co., 826 S 18th, St. Louis, Mo.
 Northway Motor & Mfg. Co., Maybury Grand av & R. R., Detroit, Mich.
 Ohio Blower Co., 43 Michigan, Cleveland, Ohio
 Powell Muffler & Turner Co., Utica, N. Y.
 Relay Motor Car Co. ("Wyoma"), Reading, Pa.
 Ross & Kramer, 5607 S Halsted, Chicago, Ill.
 Runyen, Jas. & Son, Redkey, Ind.
 SCAIFE, WM. B., & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Smith, D. B. & Co. ("Yankee"), Utica, N. Y.
 Snow, B. W., 132 Blissell, Syracuse, N. Y.
 Sun Stove Co., 1305 Bellevue av, Detroit, Mich.
 Turner Brass Works, 65 Michigan, Chicago, Ill.
 Uucas Specialty Co., Norwich, Conn.
 Warren Mfg. Co., Warren Mass.
 Weeber, C. F., Mfg. Works ("Weeber"), 170 Central av., Albany, N. Y.
 Weiss, Louis T., 286 Graham, Brooklyn, N. Y.
 Westerfield Motor Co., Anderson, Ind.
 Western Motor Co., Logansport, Ind.
 Williamson, Thomas G., 8 S 39th, Philadelphia, Pa.

Xardell, J. A. & C. A. (Vacuum), Utica, N. Y.
 Yankee Muffler Co. ("Yankee" Silent), Utica, N. Y.

*Mufflers (Pop Valve)

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Muffles (Enameling)

Brooklyn Fire Brick Works, Brooklyn, N. Y.

Multigraph Ribbons

American Multigraph Sales Co., Case av. & Kelley, Cleveland, Ohio

*Multi Stage, High Lift Centrifugal Pumps

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Muriates of Tin

Butterworth-Judson Co., Newark, N. J.
 Cochrane Chemical Co., Boston, Mass.

Muzzles (Horse & Ox)

Hamblin & Russell Mfg. Co., Worcester, Mass.
 Wire Goods Co. (Japanned Wire, etc.), Worcester, Mass.

Nail Mill Machinery

(See Machinery, Nail Mill)

Nail Sets

Braunsdorf-Mneller Co., Elizabeth, N. J.
 Browne & Dowd Mfg. Co. (Knurled Cup Point), Meriden, Conn.
 Buck Bros. (Square & Round Points), Millbury, Mass.
 Deuse, J. S., Chester, Conn.
 Ducharme & Co., Shelburne Falls, Mass.
 Goodell-Pratt Co., Greenfield, Mass.
 Johnson, Wm. (Hedenberg Works) (Plain, Knurled Cup Points), Newark, N. J.
 Keystone Mfg. Co. ("Keystone"), 41 Chandler, Buffalo, N. Y.

Kraenter & Co., Newark, N. J.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Snell Mfg. Co., Fiskdale, Mass.
 STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Syracuse Twist Drill Co., Syracuse, N. Y.
 Tuck Mfg. Co. (Plain, Corrugated, Knurled & Channel), Brockton, Mass.
 Vaughn & Bnsnell Mfg. Co. ("V. & B."), 873 W Carroll av, Chicago, Ill.

Nails (Aluminum Coated)

Wilder Metal Coating & Mfg. Co., Connellsville, Pa.

Nails (Barbed)

Corbin Screw Corporation (Steel Wire), New Britain, Conn.
 Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.

Norton Iron Works (Common & Car), Ashland, Ky.
 Wire Goods Co., Worcester, Mass.
 Youngstown Sheet & Tube Co. (Common & Car), Youngstown, O.

Nails (Barrel)

(See Barrels, Box)

Nails (Box)

AMERICAN STEEL & WIRE CO., Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Corbin Screw Corporation (Steel Wire), New Britain, Conn.
 Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
 Kokomo Steel & Wire Co., Kokomo, Ind.
 La Belle Iron Works, Steubenville, O.
 Norton Iron Works, Ashland, Ky.
 Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.

Sharon Steel Co., Sharon, Pa.
 Stanley, Geo. W. Co., Belleville, Ill.
 Taunton Wire Nail Co. (Blind, Rugby, etc.), Taunton, Mass.
 Van Alen & Co. (Cut), Northumberland, Pa.
 Wire Goods Co., Worcester, Mass.
 Youngstown Sheet & Tube Co., Youngstown, O.

*Nails (Brass Cast)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Nails (Brass & Copper)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Berbecker & Rowland Mfg. Co., Waterville, Conn.
 Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
 Hassall, Jno. (Boat, Slating, etc.), 171 Lafayette, New York
HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York
 Hussey, C. G. & Co. (Copper Only), 2850 2d av, Pittsburg, Pa.

International Brass & Electric Co. (Hexagon Machine Made), 76 Beekman, New York
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Milwaukee Tack Co., Milwaukee, Wis.
 Phillips, E. & Sons, South Hanover, Mass.
PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)

Rome Brass & Copper Co., Rome, N. Y.
 Taunton-New Bedford Copper Co. (Copper Yellow Metal Only), New Bedford & Taunton, Mass.

Nails (Carpet)

Corbin Screw Corporation (Steel Wire), New Britain, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Nails (Casing)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
 Kokomo Steel & Wire Co., Kokomo, Ind.
 La Belle Iron Works, Steubenville, O.
 Youngstown Sheet & Tube Co. (Casing & Smooth Box), Youngstown, O.

Nails (Cement Coated Wire)

Pearson, J. C. Co., Old South bldg. Boston, Mass.

Nails (Cigar Box)

Grammes, L. F., & Son, Allentown, Pa.
 Hassall, Jno., 171 Lafayette, New York

Nails (Clinch)

Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
 Kokomo Steel & Wire Co., Kokomo, Ind.
 La Belle Iron Works, Steubenville, O.
 Van Alen & Co. (Cut), Northumberland, Pa.
 Youngstown Sheet & Tube Co., Youngstown, O.

Nails (Clout)

Cleveland Tack Works, Hamilton av & E 49th, Cleveland, O.
 Diamond Tack & Nail Wks., Raynham, Mass.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
 La Belle Iron Works, Steubenville, O.
 Norton Iron Works, Ashland, Ky.
 Phillips, E. & Sons, South Hanover, Mass.
 Stanley, Geo. W. Co., Belleville, Ill.
 Superior Tack & Nail Co., Pen Yau, N. Y.
 Tower Mfg. Co., Cincinnati, O.
 Van Alen & Co. (Cut), Northumberland, Pa.

Nails (Clutch)

ACME STEEL GOODS CO., 2834 Archer av, Chicago, Ill.; 147 Lafayette, New York, & Empiro Bldg., Atlanta, Ga. (See adv. index, end of book)
CARY MFG. CO. ("Cary's" Patent Twisted), 10 Roosevelt, New York. (See adv. index, end of book)
 De Haven Mfg. Co., 153 Furman, Brooklyn, N. Y.
 Indianapolis Staple & Tack Co., Indianapolis, Ind.
 Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.

Nails (Coated)

Youngstown Sheet & Tube Co., Youngstown, Ohio

Nails (Corrugated)

Corrugated Steel Nail Co. (Steel), Springfield, O.
 Phillips, E. & Sons (Brass & Iron), South Hanover, Mass.

Nails (Cut)

Bailey, Chas. L. & Co. (Inc.) (Iron & Steel), Harrisburg, Pa.
 Belfont Iron Works Co. (126 Machines), Iron- ton, O.
 Brooke, E. & G. Iron Co., Birdsboro, Pa.
 Glasgow Iron Co., Pottstown, Pa.
 Godcharles, F. A. Co. 89 Machines), Milton, Pa.
 Hartman, Hay & Rels (62 Machines), Belleville, Ill.
 Igoe Bros., 69 Metropolitan av., Brooklyn, N. Y., & Newark, N. J.
 Judson Mfg. Co., San Francisco, Cal.
 Kelly Nail & Iron Co. (120 Machines), Iron- ton, O.
 La Belle Iron Works (173 Machines), Steuben- ville, O.
 Lessig, Geo. B. Co. (Iron & Steel), Potts- town, Pa.
 Norton Iron Works (Inc.) (140 Machines), Ash- land, Ky.
 Old Dominion Iron & Nail Works Co. (Iron), (139 Machines), Richmond, Va.
 Pickering, R. S., Sharon Hill, Pa.
 Plymouth Mills, Plymouth, Mass.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Tremont Nail Co. (150 Machines), West Ware- ham, Mass., & 76 Pearl, Boston, Mass.
 Van Alen & Co. (Iron & Steel), Northumber- land, Pa.
 Wheeling Steel & Iron Co., Wheeling, W. Va.
 Williamsport Iron & Nail Co. (Iron & Steel), Williamsport, Pa.

Nails (Finishing)

AMERICAN STEEL & WIRE CO. Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Corbin Screw Corporation (Smooth Steel Wire), New Britain, Conn.
 Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
 Kokoma Steel & Wire Co., Kokomo, Ind.
 La Belle Iron Works, Steubenville, O.
 Norton Iron Works, Ashland, Ky.
 Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
 Tower Mfg. Co., Cincinnati, O.
 Van Alen & Co. (Cut), Northumberland, Pa.
 Wheeling Steel & Iron Co., Wheeling, W. Va.
 Wire Goods Co., Worcester, Mass.
 Youngstown Sheet & Tube Co. (Smooth Fin- ished), Youngstown, O.

Nails (Foundry)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 La Belle Iron Works (Large Head), Steuben- ville, O.

Nails (Galvanized)

Hartman, Hays & Reis, Belleville, Ill.
Keystone Nail Co. ("Cut & Wire"), 1618 Wash'n ave., Phila., Pa.
Malleable Iron Fittings Co. (Iron & Steel, Cut, Wire & Boat Nails, etc.), Branford, Conn.
United Galvanizing Co. (Inc.), 525 N Front, Phila., Pa.
Youngstown Sheet & Tube Co., Youngstown, O.

Nails (Gilt)

Ossawan Mills Co., Norwich, Conn.
TURNER & SEYMOUR MFG. CO., Torrington Conn. (See adv. index, end of book)

Nails (Hand Picked)

Hassall, John (For Machine Driving), 171 Lafayette, New York

Nails (Hoop)

Cleveland Tack Works, Hamilton av & E 49th, Cleveland, O.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
La Belle Iron Works, Steubenville, O.
Norton Iron Works, Ashland, Ky.
Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.
Wheeling Steel & Iron Co., Wheeling, W. Va.

Nails (Horse)

Ausable Horse Nail Co., Keesville, N. Y.
Capewell Horse Nail Co., Hartford, Conn.
Coleman Nail Co., Pawtucket, R. I.
Essex Horse Nail Co. (Ltd.), Essex, N. Y.
Fowler Nail Co., Seymour, Conn.
Kankakee Nail Co., Kankakee, Ill.
Livingston Nail Co., 302 Broadway, New York
Mooney, W. M. & Co., Au Sable Chasun, N. Y.
Putnam Nail Co., Neponset, Boston, Mass.
Standard Horse Nail Co., New Brighton, Pa.
Union Horse Nail Co., 605 W. 22d, Chicago, Ill.

*Nails (Numeral)

TURNER & SEYMOUR MFG. CO., Torrington Conn. (See adv. index, end of book)

Nails (Papier Mache)

Atlas Tack Co., Fairhaven, Mass.

Nails (Picture)

Ossawan Mills Co., Norwich, Conn.
TURNER & SEYMOUR MFG. CO., Torrington Conn. (See adv. index, end of book)

Nails (Roofing & Slating)

Atlas Tack Co., Fairhaven, Mass.
Cleveland Tack Works (Slating), Hamilton av & E 49th, Cleveland, O.
Corbin Screw Corporation (Steel Wire; also Barbed), New Britain, Conn.
Crescent Machine Co. (Roofing), 1152 Trumbull av, Detroit, Mich.
Grand Crossing Tack Co., S Chicago av & 79th, Grand Crossing, Ill.
Hassall, Jno. (Slating), 171 Lafayette, New York
HUNGERFORD, U. T. BRASS & COPPER CO. (Copper & Yellow Metal), 497 Pearl, New York
Hussey, C. G., & Co. (Slating Nails), 2850 2d av, Pittsburgh, Pa.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Kokomo Steel & Wire Co., Kokomo, Ind.
La Belle Iron Works, Steubenville, O.
Miller's, H. J. Sons Co., Weatherproof Shingle, Bridgewater, Mass.
MILWAUKEE CORRUGATING CO., (Jobbers), Milwaukee, Wis. (See adv. index & branch offices, end of book)
Milwaukee Tack Co., Milwaukee, Wis.
Norton Iron Works, Ashland, Ky.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Phillips, E. & Sons, So. Hanover, Mass.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
Seneca Wire & Mfg. Co. (Wire Roofing), Fostoria, O.
Sherman, H. B. Mfg. Co. ("Simplex" Roofing Nails), Battle Creek, Mich.
Taunton & New Bedford Copper Co., New Bedford & Taunton, Mass.
Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.

Van Allen & Co., Northumberland, Pa.
Weather Proofing Nail Co., Inc. ("Capual" Weather Proofing), Baltimore, Md.
Wheeling Steel & Iron Co., Wheeling, W. Va.
Wire Goods Co. (Barber Roofing), Worcester, Mass.
Youngstown Sheet & Tube Co. (Slating & Barbed Roofing), Youngstown, O.

Nails (Rubber Headed)

Elastic Tip Co., 370 Atlantic av., Boston, Mass.

Nails (Saddle & Lining)

Atlas Tack Co., Fairhaven, Mass.
Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.

*Nails (Screen)

TURNER & SEYMOUR MFG. CO., Torrington Conn. (See adv. index, end of book)

Nails (Screw Head)

Hassall, Jno., 171 Lafayette, New York
Roebbling's, Jno. A. Sons Co., Trenton, N. J.

Nails (Shingle)

Corbin Screw Corporation, New Britain, Conn.
La Belle Iron Works, Steubenville, O.
Millers', H. J. Sons (Genuine Iron), Bridge-water, Mass.
Youngstown Sheet & Tube Co., Youngstown, O.

Nails (Shoe)

Cleveland Tack Works (And Shoe Tacks), Hamilton av. & E. 49th, Cleveland, O.
Cross, W. W. & Co. (Inc.), Brockton, Mass.
Diamond Tack & Nail Wks., Raynham, Mass.
Globe Mfg. Co. (Wire), Taunton, Mass.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.
Gurney, David B., Whitman, Mass.
Hobart, Benj., Co., Whitman, Mass.
Indson Mfg. Co., San Francisco, Cal.
Kimball Bros. & Sprague, Brockton, Mass.
Millers', H. J. Sons (Shoe & Machine Shoe), Bridgewater, Conn.
Phillips, E. & Sons (Also Machine, Shoe, Brass & Copper Shoe), S Hanover, Mass.
River Co. (Brass), Waterbury, Conn.
Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.

Nails (Small)

(See also Tack Manufacturers)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Atlas Tack Co., Fairhaven, Mass.
Cleveland Tack Works, Hamilton av & E 49th, Cleveland, O.
Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
Corbin Screw Corporation, New Britain, Conn.
Fuller, G. E. & A. L. Keene, N. H.
Globe Mfg. Co. (Wire), Taunton, Mass.
Hartman, Hays & Reis, Belleville, Ill.
Hassall, John, 171 Lafayette, New York
Holland Mfg. Co., Baltimore, Md.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Kirk-Latty Mfg. Co. (Clout, Truck, etc.), Cleveland, O.
Kokomo Steel & Wire Co. (Wire), Kokomo, Ind.
Phillips, E. Sons (Iron, Steel, Copper, Brass & Zinc), S Hanover, Mass.
Rhodes, M. M. & Sons Co. (Upholstery), Taunton, Mass.
Shelton Co., Shelton, Conn.
Stanley, Geo. W. Co., Belleville, Ill.
Superior Tack & Nail Co. (Cut), Pen Yan, N. Y.
Taunton Wire Nail Co., Taunton, Mass.
Torrington Mfg. Co. (Furniture), Torrington, Conn.
Tower Mfg. Co. (Basket Hoop, etc.), Commerce & Elm, Cincinnati, O., & Madison, Ind.
TURNER & SEYMOUR MFG. CO. (Furniture, etc.), Torrington, Conn. (See adv. index, end of book)
Wheeling Steel & Iron Co., Wheeling, W. Va.
York Tack & Nail Works (Cut), York, Pa.

Nails (Special)

La Belle Iron Works, Steubenville, O.
Wheeling Steel & Iron Co., Wheeling, W. Va.

Nails (Stay)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Nails (Tobacco)

Corbin Screw Corporation, New Britain, Conn.
Igoe Bros., 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
Norton Iron Works, Ashland, Ky.
Youngstown Sheet & Tube Co., Youngstown, O.

Nails (Trunk)

Cleveland Tack Works, Hamilton av. & E. 49th, Cleveland, O.
Diamond Tack & Nail Works, Raynham, Mass.
Superior Tack & Nail Co., Pen Yan, N. Y.
Tower Mfg. Co., Commerce & Elm, Cincinnati, Ohio

Nails (Upholsterers')

(See Tacks, Upholsterers')

Nails (Wire)

AMERICAN STEEL & WIRE CO., ("Standard" Miscellaneous), Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Atlanta Steel Co., Atlanta, Ga.
Atlas Tack Co. (And Wire Tacks), Fairhaven, Mass.
Badger Nail Co., Milwaukee, Wis.
Belfont Iron Works Co., Ironton, O.
Cedarburg Wire & Wire Nail Co. (Sizes 1/4 to 4 in.), Cedarburg, Wis.
Colorado Fuel & Iron Co., Denver, Colo.
Corbin Screw Corporation (Steel), New Britain, Conn.
Crawfordsville Wire & Nail Co. (All Sizes), Crawfordsville, Ind.
Globe Mfg. Co. (Small), Taunton, Mass.
Grand Crossing Tack Co. (All Sizes), 79th & S Chicago av, Chicago, Ill.
Griswold Co. (All Sizes), Sterling, Ill.
Griswold Wire Co., Braddock, Pa.
Gurney, D. B. (Sizes up to 20 Penny; 333 Machines), Whitman, Mass.
Hartman, Hays & Reis, Belleville, Ill.
Hassall, John, 171 Lafayette, New York
Illinois Nail Co., 3 Dix, Chicago, Ill.
Indiana Steel Wire Co., Muncie, Ind.
Janesville Barb Wire Co. (2 to 60 Penny), Janesville, Wis.
Judson Mfg. Co., San Francisco, Cal.
Kelly Nail & Iron Co., Ironton, O.
Kokomo Steel & Wire Co., Kokomo, Ind.
Lawrence Bros., Sterling, Ill.
McCrory, John, Ellwood City, Pa.
Milwaukee Tack Co. (Small only), Milwaukee.
Morgau Spring Co., Worcester, Mass.
Norton Iron Works (50 Machines), Ashland, Ky.
Parker Wire Goods Co., Worcester, Mass.
Phillips, Townsend & Co. (All Sizes), N 4th & Glenwood av, Phila., Pa.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Pittsburg Steel Co., Pittsburg, Pa.
Plymouth Mills (Small), Plymouth, Mass.
Roebbling's, John A. Sons Co. (All Sizes), Trenton, N. J.
Seneca Wire & Mfg. Co. (Roofing), Fostoria, O.
Southern Steel Co., Birmingham, Ala.
Spencer Wire Co., Worcester, Mass.
Stanley, Geo. W. Co. (Small Wire & Cut), Belleville, Ill.
Superior Tack & Nail Co., Pen Yan, N. Y.
Taunton Wire Nail Co. (Sizes 1/4 to 8-Inch; 30 Machines), Taunton, Mass.
Titchener, E. H. & Co. (Up to 3-Inch), Binghamton, N. Y.
Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.
Van Allen & Co., Northumberland, Pa.
Wire Goods Co. (All Sizes & Kinds), 100 Machines, Worcester, Mass.
Wickwire Bed Co., Cortland, N. Y.
Youngstown Sheet & Tube Co., Youngstown, O.

Nails & Studs (Ornamental)

Yale & Towne Mfg. Co., 9 Murray, New York

Name Plates

American Name Plate & Mfg. Co., 226 Kinzie, Chicago, Ill.
AMERICAN RAILWAY SUPPLY CO., 26 Park pl., New York. (See adv. index, end of book)
Becker, August Engraving Co. (Cast), 247 Atlantic av, Boston, Mass.

CHANDLER CO., Springfield, Mass.

(See adv. index, end of book)

Corbin Cabinet Lock Co. (Wrought, Brass, etc.),

New Britain, Conn.

Crowe Name Plate & Engraving Co., 71 W Jackson

boul, Chicago, Ill.

Dayton Stencil Works (Carriages, etc.), Dayton,

Ohio

Eastwood Wire Mfg. Co. (Bronze Finish), Belle-

ville, N. J.

Electro Chemical Engraving Co. (Inc.), 450

19th, Brooklyn, N. Y.

Enameled Steel Sign Co., 12 State, Chicago,

G. & P. Engraving Co., 185 Franklin, Boston,

Mass.

Hanson, C. H., 44 Clark, Chicago, Ill.

Imperial Enamel Co., 100 William, New York

Kokomo Fence Machine Co. (Nickel & Alumi-

num), Kokomo, Ind.

Matthews, Jas. H. & Co., 306 Wood, Pitts-

-burgh, Pa.

Ness, Geo. M., Jr., 61 Fulton, New York

New York Stencil Works, 100 Nassau, New

York

NIAGARA FALLS METAL STAMPING

Works, Niagara Falls, N. Y. (See adv.

index, end of book)

Norwalk Lock Co., South Norwalk, Conn.

Peerless Stamp & Stencil Co. (Carriage, Door,

etc.), Muncie, Ind.

Reading Hardware Co., Reading, Pa.

Robbins, John Mfg. Co., 58 Kneeland, Bos-

ton, Mass.

Russell & Erwin Mfg. Co., New Britain,

Conn., & 96 Lafayette, New York

Sackman Mfg. Co. (Inc.), 19 Cherry, Akron,

Ohio

Salo Art Metal Co., 19 Collier, Binghamton,

N. Y.

Schmidt, Geo. S., 50 S. Clark, Chicago, Ill.

Schwerdtle Stamp Co., Bridgeport, Conn.

SMITH, F. P. WIRE & IRON WORKS,

100 Lake, Chicago, Ill. (See adv. index, end

of book)

Smith, Jos. N. & Co., Detroit, Mich.

Torrey Roller Bushing Works, Bath, Me.

Turner Brass Works, Sycamore, Ill.

Union Porcelain Works, 300 Eckford, Brooklyn,

N. Y. (Sign & Number Plates, Porcelain)

Western Brass Mfg. Works (In Different Names),

21st & Rockwell, Chicago, Ill.

Wolverine Brass Works, Grand Rapids, Mich.

Woodman, R. Mfg. & Supply Co., 63 Oliver,

Boston, Mass.

Name Plates (Automobile)

Abbott, W. H., 143 W 42nd, New York

American Name Plate & Mfg. Co., 226 Kinzie,

Chicago, Ill.

CHANDLER CO., Springfield, Mass.

(See adv. index, end of book)

Electro Chemical Engraving Co. (Inc.), 450

19th, Brooklyn, N. Y.

Hanson, C. H., 44 Clark, Chicago, Ill.

Salo Art Metal Co., 19 Collier, Binghamton,

New York

Turner Brass Works, Sycamore, Ill.

Name Plates (Cement Sidewalk)

Kramer Bros. Foundry Co., Dayton, Ohio

Schmidt, Geo. S. (Brass), 50 S. Clark, Chi-

cago, Ill.

Name Plates (Machinery)

(See also Name Plates)

American Name Plate & Engraving Co., 352

Atlantic av., Boston, Mass.

American Name Plate & Mfg. Co., 226 Kinzie,

Chicago, Ill.

Becker, August Engraving Co. (Cast), 247 At-

lantic av., Boston, Mass.

Boyd, Geo. A. Co., 552 W B'way, New York

CHANDLER CO., Springfield, Mass.

(See adv. index, end of book)

Crowe Name Plate & Engraving Co. (Also Car-

riage), 71 W. Jackson boul, Chicago, Ill.

Electro Chemical Engraving Co. (Inc.), 450

19th, Brooklyn, N. Y.

Everett, A. & Son, Auburn, N. Y.

J. & P. Engraving Co., 185 Franklin, Boston,

Mass.

Haeusermann Metal Mfg. Co., 242 E. 122d, New

York

NIAGARA FALLS METAL STAMPING

Works, Niagara Falls, N. Y. (See adv.

index, end of book)

Hanson, C. H., 44 Clark, Chicago, Ill.

Peerless Stamp & Stencil Co., Muncie, Ind.

Salo Art Metal, 19 Collier, Binghamton, New

York

Schwerdtle Stamp Co., Bridgeport, Conn.

Torrey Roller Bushing Works (Cast), Bath, Me.

Turner Brass Works, Sycamore, Ill.

Name Plates (Telephone)

Electro Chemical Engraving Co. (Inc.), 450

19th, Brooklyn, N. Y.

Salo Art Metal, 19 Collier, Binghamton, New

York

Naphtha (Coal Tar)

Barrett Mfg. Co., Land Title bldg., Phila., Pa.

National Aniline & Chemical Co., Buffalo,

N. Y.

Naphtha Gas

Sun Oil Co., Toledo, O.

Naphtha Refiners

Barrett Mfg. Co. (Naphthaline), Land Title

bldg, Phila., Pa.

Bulls Head Oil Works, San Francisco, Cal.

Crew-Levick Co., Land Title bldg., Phila., Pa.

Day Chemical Co. (Wood Naphtha), Westline,

Great Western Oil Co., Cleveland, O.

INDIAN REFINING CO., Cincinnati,

O. (See adv. index, end of book)

Miller, A. D. Sons Co., Allegheny, Pa.

Paragon Refining Co., Toledo, O.

Penn Refining Co., Oil City, Pa.

Standard Oil Co., 555 W 25th, New York

Sun Co. (56 Gravity Deodorized), Real Estate

Trust Co. bldg., Phila., Pa.

Sunlight Oil & Gasoline Co., 217 Arch, Phil-

adelphia, Pa.

Titusville Oil Works, Titusville, Pa.

Union Petroleum Co., 133 S 2d, Phila., Pa.

Waverly Oil Works, 54th & A. V. Ry., Pitts-

burg, Pa.

Naval Cooperage for Vessels*BALTIMORE COOPERAGE CO., THE,**

cor. Hanover & Creek, Baltimore, Md.

(See adv. index, end of book)

Nebulizers (Eureka)

Turner Brass Works, Sycamore, Ill.

Neck Yoke Bands

Wrought Washer Mfg. Co. (Steel), Milwaukee,

Wis.

Neck Yokes

Adams, E. B., & Son, Racine, Wis.

Anderson Pole & Shaft Co., Anderson, Ind.

Boub & Scheu, Cincinnati, O.

Buckeye Mfg. Co., Anderson, Ind.

Burton Handle Co., Burton, O.

Canton Pole & Shaft Co., Canton, O.

Covert Mfg. Co., Troy, N. Y.

Fee-Crayton Hardwood Lumber Co., Little

Rock, Ark.

Hanover Plow Handle Co., Hanover, Pa.

Hartwell Bros., Chicago Heights, Ill.

Hench & Dromgold Co., York, Pa.

Johnson, F. C., Stillman Valley, Ill.

Jones, K., Janesville, Wis.

McCall Mfg. Co., Moberly, Mo.

Oshkosh Logging Tool Co., Oshkosh, Wis.

Peterson, Samuel, Warren, Pa.

Pittsburg Tubular Steel & Whiffletree Co. (Tu-

bular Steel), Ridge av. Pittsburg, Pa.

Racine Malleable & Wrought Iron Co., Ra-

cine, Wis.

Racine Pole & Shaft Co., Racine, Wis.

Sheldon, Mason, Kinzura, Pa.

Sholl Whiffletree Co., Hobart, Ind.

Sidney Pole & Shaft Co., Sidney, O.

Sovereign, C. E. Co. ("Rockford," "Shuman's"

Swivel), Rockford, Ill.

Tanner, D. F., Holland, N. Y.

Todd Mfg. Co. (Wagon), New Albany, Ind.

Von Behren Mfg. Co., Evansville, Ind.

Ziegler, Neckyoke Co., Coffeyville, Kan.

Zimmerman, J. N., Birmingham, Mich.

Needle Mfrs.

(See Needles, Various Kinds, under head of

Textile Machinery, Supplies, Etc.)

Needles (Mining)

(See Miners' Needles & Scrapers)

Needles (Phonograph)

(See Talking Machine Needles)

Nets (Arc Globe)

(See Guards, Electric Lamp)

Nets (Life Saving)

Combination Ladder Co. ("Manhattan"), Provi-

dence, R. I.

Hayward, S. F. & Co., 39 Park pl, New York

Woodhouse Mfg. Co., 50 W B'way, New York

Netting (Mosquito)

McLean, Andrew Co., Passaic, N. J.

North Scituate Cotton Mills, N. Scituate, R. I.

The Chandler Co.
ETCHED NAME PLATES
SPRINGFIELD MASS. U.S.A.

**We Make Name
 Plates of Every
 Description for
 Every Purpose.
 If You are from
 Missouri We
 Should Like to
 Show You.**

Neutralizer (Electric)

Portland Co. ("Chapman," to Remove Static Electricity), Portland, Me.

Nickel Mfrs.

International Nickel Co., 43 Exchange pl, New York

Nickeloid, Copperoid, Brassoid & Steeloid

American Nickeloid Mfg. Co. (Nickelized Sheet Steel, Zinc, Copper, Brass, etc.), Peru, Ill.

Nippers (Bicycle)

STARRETT, L. S. CO. (Adjustable Jaw), Athol, Mass. (See adv. index & branch offices, end of book)

Utica Drop Forge & Tool Co., Utica, N. Y.

Nippers (Blacksmiths')

Champion Tool Co. ("Champion" Nail Head), Meadville, Pa.

Smith, H. D., & Co. ("W. D. W." Farriers' Cutting, Drop Forged), Plantsville, Conn.
Washington Tool Co. ("Larson's"), Owatonna, Minn.

Nippers (Champagne)

Osborne, C. S. & Co. ("Pommery Sec."), Harrison, N. J.

Nippers (Cutting)

Bridgeport Hardware Mfg. Co., Bridgeport, Conn.

Champion Tool Co. ("Champion"), Meadville, Pa.
Falls Mfg. Co., San Francisco, Cal.

Heller Bros. Co., 879 Mt. Prospect av., Newark, N. J.
Hubbard & McClary, Windsor, Vt.

Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.
Schollhorn, Wm. Co. ("Bernard" End Cutting), New Haven, Conn.

Smith & Hemenway Co., 108 Duane, New York
Starr-Nettleton Mfg. Co. ("Nettleton" Reversible), East Hampton, Conn.

STARRETT, L. S. CO. (Adjustable Jaw), Athol, Mass. (See adv. index & branch offices, end of book)

Utica Drop Forge & Tool Co., Utica, N. Y.
Vaughn & Bushnell Mfg. Co., 875 Carroll av, Chicago, Ill.

Nippers (Fruit)

Kraeuter & Co., Newark, N. J.

Nipples (Hose)

Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.

Elkhart Brass Mfg. Co., Elkhart, Ind.
Hayward, S. F. & Co., 39 Park pl, New York

MRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Powell, Wm. & Co., 2529 Spring Grove av, Cincinnati, O.

Queen City Brass & Iron Works, Cincinnati, O.
Schrader's, A. Son (Inc.), 30 Rose, New York

Sherman, H. B., Mfg. Co., Battle Creek, Mich.

Standard Brass & Iron Works (For Brewers, etc.), Milwaukee, Wis.

Nipples (Long Screws & Followers)

National Tube Co., Pittsburg, Pa.

Nipples (Pipe)

Aird, Alanson A (Wrought Iron), Watervliet, N. Y.

Eastwood Wire Mfg. Co. (Bronze), Belleville, N. J.

Crane Valve Co., Bridgeport, Conn.

General Fire Extinguisher Co., Providence, R. I.
Landis Machine Co., Waynesboro, Pa.

Imbert, Geo. B. & Co. (Malleable Iron, etc.), 49 Fulton, Chicago, Ill.

LUNKENHEIMER CO. (Brass), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

National Tube Co. (Brass, Malleable & Wrought Iron Casing, "R. & L." Hexagon Drainage Tank, etc.), Pittsburg, Pa.

PPAFF & KENDALL (Wrought Iron), Ferry & Foundry, Newark, N. J. (See adv. index, end of book)

Wilder, Sidney & Co. (Brass), Holliston, Mass.

Nipples (Radiator)

National Radiator Co. (Non-Corrosive Malleable Iron Push), Johnstown, Pa.

Pratt Chuck Co., Frankfort, N. Y.
Sparks, Withington, Co., Jackson, Mich.

Nipples (Soldering)

(See Unions & Nipples, Soldering)

Nipples (Zinc Coated, Steel Slip)

Pratt Chuck Co., Frankfort, N. Y.

Nitrate

Butterworth-Judson Co. (Iron, etc.), Newark, N. J.

Cochrane Chemical Co. (Iron & Copper), Boston, Mass.

Harrison Bros. & Co. (Inc.) (Of Lead & Soda), 35th & Gray's Ferry rd, Phila., Pa.

Innis, Speiden & Co. (of Soda), 46 Cliff, New York

Mallinckrodt Chemical Works, St. Louis, Mo.
Tennant, C., Sons Co. (of Lead), 76 William, New York

***Nitro - Glycerine**

DU PONT, E. I., de NEMOURS POWDER Co. (Also Solidified Nitroglycerine), Wilmington, Del. (See adv. index & branch offices, end of book)

Notifiers (Burglar)

Dayton Supply Co., Dayton, O.

Novelties (Aluminum)

(See Firms in Metal Novelties & Specialties with the Word Aluminum Following their Name)

Nozzles (Blast)

Schutte & Koerting Co. (For Chimneys), 1251 N 12th, Phila., Pa.

Nozzles (Chemical)

Hayward, S. F. & Co., 39 Park pl, New York
Sieben Chemical Co. ("Fire King"), Kansas City, Mo.

***Nozzles (Flanged Boiler, Forged Steel)**

AMERICAN SPIRAL PIPE WORKS, W. 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)

Nozzles (Hose)

Allen, W. D. Mfg. Co. (Spray), 151 Lake, Chicago, Ill.

American Foundry & Mfg. Co., St. Louis, Mo.
Barnes Mfg. Co., Mansfield, O.

Bastian, C. L. Mfg. Co. (Fire Hose & Underwriters), 76 Illinois, Chicago, Ill.

Belknap Mfg. Co., Bridgeport, Conn.

Boston Coupling Co. ("Haley"), Boston, Mass.
Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.

Callahan, C. Co., Boston, Mass.

Clay, Jno. H., 1320 Ridge av, Phila., Pa.

Crane Co., 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co. ("Gem"), Bridgeport, Conn.

Dayton Supply Co. ("Nixon-Climax"), Dayton, Ohio

Eastman, Samuel & Co., East Concord, N. H.

Elkhart Brass Mfg. Co., Elkhart, Ind.

Fabric Fire Hose Co., Church & Duane, New York

Glazier Nozzle & Mfg. Co., 501 & 502 Commercial Club Bldg, Indianapolis, Ind.

Hayward, S. F. & Co., 39 Park pl, New York
Lauders, Frary & Clark (Inc.) ("Fairy" & "Climax"), New Britain, Conn.

Loeffelholz Co. (Combination & Judge Distributing), 170 Clinton, Milwaukee, Wis.

Morse, Andrew J. & Son (Inc.), ("Morse," "Moulter"), 221 High Boston, Mass.

Myers, F. E., & Bro., Ashland, O.
Neumeyer, H. F., Macungie, Pa.

Schrader, A. Son (Inc.), 30 Rose, New York
Sherman, H. B., Mfg. Co., Battle Creek, Mich.

Sieben Chemical Nozzle Co. ("Fire King"), Kansas City, Mo.

Standard Brass & Iron Works (Heavy for Brewers, etc.), Milwaukee, Wis.

Wolverine Brass Works, Grand Rapids, Mich.

***Nozzles (Hydraulic Mining)**

AMERICAN SPIRAL PIPE WORKS, W. 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)

Nozzles (Plumbago)

Bartley, Jonathan, Crucible Co., Trenton, N. J.

McCullough-Dalzell Crucible Co. (For Bessemer & Open Hearth Furnaces), Pittsburg, Pa.

***Nozzles (Sand Blast)**

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Nozzles (Spray)

Allen, W. D., Mfg. Co. ("Mystic"), 151 Lake, Chicago, Ill.

DEMING CO., Salem, O. (See adv. index, end of book)

Elkhart Brass Mfg. Co. ("Elkhart"), Elkhart, Ind.

Hayward, S. F. & Co., 39 Park pl., New York

Loeffelholz Co. ("Foley," Solid Stream, Shut Off & Spray), Milwaukee, Wis.

Myers, F. E., & Bro., Ashland, O.
Schutte & Koerting Co. (For Chemical Purposes), 1251 N 12th, Phila., Pa.

***Number Plates (Automobile)**

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Numbers & Letters (Decalcomania)

(See Ornaments, Transfer)

Numbers & Letters (Metal)

(See also Name Plates)

AMERICAN RAILWAY SUPPLY CO., 26 Park pl, New York. (See adv. index, end of book)

Arcade Mfg. Co. (House Numbers, Brass & Aluminum), Freeport, Ill.

Benfield & Milne Mfg. Co., 67 Halleck, Newark, N. J.

Blasier, M. E. & Co., Utica, N. Y.

Brass Goods Mfg. Co., Nevin, c Union, Brooklyn, N. Y.

Brim, A. W., Seneca Falls, N. Y.

Caesar Bros. (Enameled), 112 Fulton, New York

Chicago Spring Butt Co., 51 Union Park pl, Chicago, Ill.

Everett, A. & Son (Brass Machinists, Metallic Pattern Letters & Figures), Auburn, N. Y.

Griswold Mfg. Co., Erie, Pa.

Hoggson & Pettis Mfg. Co., New Haven, Conn.

Kienzie, W. F., 92 Ohio, Chicago, Ill.

Knight, H. W., & Son, Seneca Falls, N. Y.

Manchester & Hutchins Mfg. Co., Cleveland, Ohio

Matthews, Jas. H. & Co., Pittsburg, Pa.

Miller, J. Walter (House), Lancaster, Pa.

NIAGARA FALLS METAL STAMPING CO. (Automobile, House, etc.), Niagara Falls, N. Y. (See adv. index, end of book)

Nicol & Co. (House Numbers Only), 66 N. Jefferson, Chicago, Ill.

Norwalk Lock Co., South Norwalk, Conn.

Peerless Stamp & Stencil Co., Muncie, Ind.

Providence Brass & Aluminum Co., Providence, R. I.

Reading Hardware Co., Reading, Pa.

Reynolds & Zahn, 46 Mechanic, Newark, N. J.

Robbins, Jno. Mfg. Co., Boston, Mass.

Russell & Erwin Mfg. Co. (Steel), New Britain, Conn., & 96 Lafayette, New York

Sackman Mfg. Co. (Inc.) (Steel), 19 Cherry, Akron, O.

Shanafelt Mfg. Co. (Pattern, "White Metal"), Canton, O.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Smith, R. H. Mfg. Co., Springfield, Mass.

Stover Mfg. Co., Freeport, Ill.

Taylor & Boggis Foundry Co., Cleveland, O.

Turner Brass Works, Sycamore, Ill.

TURNER & SEYMOUR MFG. CO. (House Numbers only), Torrington, Conn. (See adv. index, end of book)
Western Brass Mfg. Works (Cast Brass & Bronze), 21st & Rockwell, Chicago, Ill.
Wilcox, Orittenden & Co., Middletown, Conn.
Zeigler Bros., Elgin, Ill.

Nut Crackers & Picks

Acme Shear Co., Bridgeport, Conn.
American Cutlery Co., 193 Mather, Chicago, Ill.
Arcade Mfg. Co. ("Arcade," "Standard" & "Universal"), Freeport, Ill.
Bridgeport Hdw. Mfg. Co., Bridgeport, Conn.
Browne & Dowd Mfg. Co. (Crackers Only), Meriden, Conn.
Caldwell Mfg. Co., Rochester, N. Y.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Garfield & Co., Cleveland, O.
Humanson & Beckley Mfg. Co., New Britain, Conn.
International Silver Co., 9 Mainden Lane, New York
Jennings Bros. Mfg. Co., Bridgeport, Conn.
Landers, Frary & Clark (Inc.), New Britain, Conn.
Lee, F. E., Hardware Mfg. Co., Hartford, Conn.
Osborne, C. S. & Co. ("C. S. O. & Co." Crackers), Harrison, N. J.
Peck, Stow & Wilcox Co., 27 Murray, New York
Quackenbush, H. M., Herkimer, N. Y.
Reading Hdw. Co., Reading, Pa.
Sargent & Co., 151 Leonard, New York
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
Williams, A. C., Ravenna, O.

Nut-Locks

(See Lock-Nuts)

Nut Machinery

(See Machinery, for Various Kinds of Nut Machinery)

Nut Mfrs.

(Under this Head see Sub-classifications following)

(See also Bolt, Nut & Rivet Manufacturers)
Aetna Nut Co., Southington, Conn.
American Car & Foundry Co. (Square & Hexagon), 915 Olive, St. Louis, Mo., & 165 B'way, New York
American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
American Screw Co., Providence, R. I.
Anthony Screw Co., Worcester, Mass.
Berry Bros., E. 1st av & R. R., Columbus, O.
BETTCHEE MFG. CO., Clark av. at C., C., C. & St. L. Ry., S. W., Cleveland, O. (See adv. index, end of book)
Bourne & Knowles Mfg. Co., Cleveland, O.
California Industrial Co., Los Angeles, Cal.
Central City Bolt Co., Syracuse, N. Y.
Central Iron & Steel Co., Brazil, Ind.
Chicago Nut Co., 118 W Jackson boul, Chicago, Ill.
Chicago Screw Co., 519 Homan av, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
Cold-Jess Mfg. Co., Cleveland, O.
Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
Delaware Marine Supply Mfg. Co., Wilmington, Del.
Eastern Bolt & Nut Co., Providence, R. I.
Eberhard Mfg. Co., Cleveland, O.
Equipoise Rivet Co., Waterbury, Conn.
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., 755 Rebecca, Allegheny, Pa.
Greenell, Wyatt & Co., 499 Water, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hendricks Bros., 49 Cliff, New York
Hoopes & Townsend Co., 1330 Bntonwood, Philadelphia, Pa.
Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.
Lamson & Sessions Co., 2118 Scranton Rd., S W., Cleveland, O.
Langman, E. B. Co., Columbus, O.
Lake Erie Iron Co., Wade bldg., Cleveland, O.
Lanz, Matthew, & Sons, 101 S 29th, Pittsburg, Pa.
McCloud, Crane & Minter Co., Worcester, Mass.
Michigan Bolt & Nut Works, ft of Meldrum av, Detroit, Mich., & 135 Adams, Chicago
Milton Mfg. Co., Milton, Pa.

Moore, Franklin Co., Winsted, Conn.
Moran Bolt & Nut Mfg. Co., c Florida & Main, St. Louis, Mo.
Mount Carmel Bolt Co., Mount Carmel, Conn.
National Bolt & Nut Co., Pittsburg, Pa.
National Elastic Nut Co., Russell av & Superior, Milwaukee, Wis.
National Screw & Tack Co., Cleveland, O.
Old Dominion Iron & Nail Works Co., Richmond, Va.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Phosphor Bronze Smelting Co., 2200 Washington av, Philadelphia, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Rhode Island Tool Co., Providence, R. I.
Richards, T. C., Hdw. Co., Winsted, Conn.
Rochester Machine Screw Co., Rochester, N. Y.
Rockford Bolt Works (Inc.), Rockford, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn., & 43 Chambers, New York
St. Louis Screw Co., 600 E Clarence av, St. Louis, Mo.
Smith, Thos. & Co., Worcester, Mass.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, O.
Wheeling Hinge Co., Wheeling, W. Va.
Youngstown Mfg. Co., Youngstown, O.

Nut Picks

(See Nut Crackers & Picks)

Nut Tappers

(See Nut Tapping Machines)

Nuts (Bicycle)

Chicago Screw Co., 519 Homan av, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
McCloud, Crane & Minter Co., Worcester, Mass.
NATIONAL-ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Rochester Machine Screw Co., Rochester, N. Y.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Brass Cap)

Chicago Nut Co., 118 W Jackson boul, Chicago, Ill.
Corbin Screw Corporation (Acorn Cap or Blank Brass, Bronze, Iron or Steel), New Britain, Conn.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Hnngerford, U. T. Brass & Copper Co., 497 Pearl, New York
NATIONAL-ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Standard Screw Co., 6 Madison, Chicago, Ill.
STEWART & ROMAINE MFG. CO., 124 N 6th, Philadelphia, Pa. (See adv. index, end of book)

*Nuts (Brass, Hexagon)

NATIONAL-ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)

Nuts (Brass & Copper)

American Pin Co. (Brass Only), Waterbury, Conn.
Blake & Johnson Co. (To Order), Waterbury, Conn.
Central City Bolt Co., Syracuse, N. Y.
Chicago Nut Co. (Brass Only), 118 W Jackson boul, Chicago, Ill.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Equipoise Rivet Co. (Brass for Plumbers' Use), Waterbury, Conn.
Gaynor & Mitchell Mfg. Co. (Brass for Steam, Gas & Water Fittings), Bridgeport, Conn.
Hnngerford, U. T. Brass & Copper Co., 497 Pearl, New York
International Brass & Electric Co. (Brass Hexagon, Machine Made), 76 Beekman, New York
NATIONAL-ACME MFG. CO. (Brass Only), 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Rochester Machine Screw Co., Rochester, N. Y.
Rockford Bolt Company (Brass), Rockford, Ill.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Bridge Pin)

National Bolt & Nut Co., Pittsburg, Pa.

Nuts (Case Hardened)

American Iron & Steel Mfg. Co. (Finished), Lebanon & Reading, Pa.
Anthony Screw Co. (Finished, Check, Planer, etc.), Worcester, Mass.
Chicago Screw Co., 519 Homan av, Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., Pittsburg, Pa.
Hall's, Sam'l. Sons, 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., Phila., Pa.
Milton Mfg. Co. (Finished Hexagon), Milton, Pa.
NATIONAL-ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
National Bolt & Nut Co., Pittsburg, Pa.
Pawtucket Mfg. Co., Pawtucket, R. I.
Pittsburg Screw & Bolt Co. (Finished), Pittsburg, Pa.
Rhode Island Tool Co. (Finished), Providence, R. I.
Rochester Machine Screw Co., Rochester, N. Y.
Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
Western Automatic Machine Screw Co., Elyria, Ohio

*Nuts (Castle)

NATIONAL-ACME MFG. CO. (Iron and Steel), 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)

*Nuts (Castle, Semi Finished)

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)

Nuts (Check & Jam)

Bourne & Knowles Mfg. Co. (Cold Punched), Cleveland, O.
Chicago Screw Co., 519 Homan av, Chicago, Ill.
Clark Bros. Bolt Co., Milldale, Conn.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Garland Nut & Rivet Co., Pittsburg, Pa.
Graham Nut Co., W Carson nr Point Bridge, Pittsburg, Pa.
Handy Car Equipment Co. (For Car & Track Work), Old Colony bldg, Chicago, Ill.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Milton Mfg. Co., Milton, Pa.
NATIONAL-ACME MFG. CO., 7500 Stanton av, S. E., Cleveland, O. (See adv. index & branch offices, end of book)
National Bolt & Nut Co., Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.
 Rochester Machine Screw Co., Rochester, N. Y.
 Russell, Burdsall & Ward Bolt & Nut Co., Portchester, N. Y.
 St. Louis Screw Co., 600 E Clarence, St. Louis, Mo.
 Upson Nut Co., Unionville, Conn., & Cleveland, Ohio
 Western Automatic Machine Screw Co., Elyria, Ohio

Nuts (Clevris)

Cleveland City Forge & Iron Co., Cleveland, O.
 Michigan Bolt & Nut Works, Detroit, Mich.

Nuts (Cold Drawn)

DETROIT SCREW WORKS, 348 Franklin,
 Detroit, Mich. (See adv. index, end of book)

Hartford Machine Screw Co. (Steel Hexagon),
 Hartford, Conn.

Nuts (Cold Pressed)

American Screw Co. (For Machine Screws,
 Stove Bolts, etc.), Providence, R. I.
 Atlas Bolt & Screw Co., Cleveland, O.
 Berry Bros., E 1st av & R R, Columbus, O.
 Columbus Bolt Works, Columbus, O.
 Kirk-Latty Mfg. Co., Cleveland, O.
 National-Acme Mfg. Co. (Machine Screw),
 Cleveland, O.

Ohio Nut & Bolt Co., Berea, O.
 Union Nut & Bolt Co., 107 Chambers, New York

Nuts (Cold Punched)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Anthony Screw Co., Worcester, Mass.
 Berry Bros., E 1st av & R R, Columbus, O.
BETTCHE MFG. CO., Clark av. at C.,
 C., C. & St. L. Ry., S. W., Cleveland, O.
 (See adv. index, end of book)
 Bourne & Knowles Mfg. Co., Cleveland, O.
 Chicago Screw Co. (Hexagon), 519 Homan av,
 Chicago, Ill.

Clark Bros. Bolt Co., Milldale, Conn.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation (Tapped, Square &
 Hexagon), New Britain, Conn.

DETROIT SCREW WORKS, 348 Franklin,
 Detroit, Mich. (See adv. index, end of book)

Garland Nut & Rivet Co., Balley-Farrell
 bldg. Pittsburg, Pa. Works: West Pitts-
 burg, Pa.

Graham Nut Co., W Carson nr Point Bridge,
 Pittsburg, Pa.

Hall's, Sam'l Sons, 229 W. 10th, New York
 Haskell, Wm. H., Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., Philadelphia, Pa.
 Lake Erie Iron Co., Wade bldg, Cleveland, O.
 Lanman, E. B., Co., Columbus, O.
 Milton Mfg. Co. (Chamfered & Trimmed),
 Milton, Pa.

Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 Mount Carmel Bolt Co. (Stove, Bolt & Rod,
 etc.), Mount Carmel, Conn.

National Bolt & Nut Co., Pittsburg, Pa.
 National Supply Co., Baltimore, Md.
 Neely Nut & Bolt Co., Pittsburg, Pa.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Pittsburg Screw & Bolt Co. (Chamfered &
 Trimmed), Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co.,
 Portchester, N. Y.

St. Louis Screw Co., 600 E Clarence, St. Louis,
 Mo.
 Smith, Thos. & Co., Worcester, Mass.
 Upson Nut Co., Unionville Conn., & Cleveland,
 W. & S. Mfg. Co., Worcester, Mass. Ohio

*Nuts (Coupling)

CLEVELAND PUNCH & SHEAR WORKS
 Co., Cleveland, O. (See adv. index, end of book)

Nuts (Elastic)

Q. M. S. Co., Plainfield, N. J.

Nuts (Forged)

Aetna Nut Co. (Machine Forged), Southington,
 Conn.
 American Iron & Steel Mfg. Co. (Large),
 Lebanon, Pa.
 Billings & Spencer Co., Hartford, Conn.
 National Bolt & Nut Co. (Large), Pittsburg,
 Pa.
 St. Louis Steam Forge & Iron Works, East
 St. Louis, Ill.

Nuts (Hot Pressed)

Aetna Nut Co., Southington, Conn.
 American Equipment Co. ("U. S. Standard"),
 Norristown, Pa.

American Iron & Steel Mfg. Co., Lebanon, Pa.
BETTCHE MFG. CO., Clark av. at C.,
 C., C. & St. L. Ry., S. W., Cleveland, O.
 (See adv. index, end of book)

Elastic Nut & Bolt Co., Milwaukee, Wis.
 Columbus Bolt Works, Columbus, O.

Graham Nut Co., W Carson nr Point Bridge
 Pittsburg, Pa.

Hall's, Sam'l Sons, 229 W 10th, New York
 Hoopes & Townsend Co., 1300 Buttonwood
 Phila., Pa.

Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lake Erie Iron Co., Wade bldg., Cleveland, O.

Lamson & Sessions Co., Cleveland, O.
 Lanz, Matthew & Sons, 101 S. 29th, Pittsburg
 Pa.

Michigan Bolt & Nut Works, Detroit, Mich.
 Milton Mfg. Co. (Square & Hexagon), Milton,
 Pa.

Moran Bolt & Nut Mfg. Co., Florida & Main.
 National Bolt & Nut Co., Pittsburg, Pa.

National Supply Co., Baltimore, Md.
 Neely Nut & Bolt Co., Pittsburg, Pa.

New Castle Forge & Bolt Co. (Square & Hex-
 agon), New Castle, Pa.

Old Dominion Iron & Nail Works Co., Rich-
 mond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.
 Penn Iron & Steel Co., Lancaster, Pa.

Republic Iron & Steel Co., Frick bldg. Annex,
 Pittsburg, Pa.

St. Louis Screw Co., 600 E Clarence, St. Louis,
 Mo.

Scranton Bolt & Nut Co. (Square & Hexagon),
 Scranton, Pa.

Upson Nut Co., Unionville, Conn., & Cleveland,
 Ohio

Nuts (Joint)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood,
 Philadelphia, Pa.

Milton Mfg. Co., Milton, Pa.
 Moran Bolt & Nut Mfg. Co., Florida & Main,
 St. Louis, Mo.

National Bolt & Nut Co., Pittsburg, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.

Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.
 Russell, Burdsall & Ward Bolt & Nut Co.,
 Port Chester, N. Y.

St. Louis Screw Co., 600 E Clarence, St. Louis,
 Mo.

Smith, Thos. & Co., Worcester, Mass.
 Upson Nut Co., Unionville, Conn., & Clevel-
 land, O.

Nuts (Knurled)

Corbin Screw Corporation (Thumb), New Brit-
 ain, Conn.

NATIONAL-ACME MFG. CO., 7500 Stanton
 av, S. E., Cleveland, O. (See adv. index &
 branch offices, end of book)

PHILADELPHIA MACHINE SCREW
 Works, Race & Sheridan, Phila., Pa. (See
 adv. index, end of book)

Pratt & Whitney Co., Hartford, Conn.

St. Louis Screw Co., 3017 N 13th, St. Louis,
 Mo.

Nuts (Lock)

(See Lock-Nuts)

Nuts (Machine Screw)

American Screw Co. (Tapped), Providence, R. I.
 & 19 Lake, Chicago, Ill.

ATLAS BOLT & SCREW CO., THE (Brass
 & Iron), Marquette, opp. Hamilton av, N
 E, Cleveland, O.

Chicago Nut Co., 118 W Jackson boul, Chi-
 cago, Ill.

Chicago Screw Co., 519 Homan av, Chicago, Ill.

Columbus Bolt Works, Columbus, O.

Corbin Screw Corporation, New Britain, Conn.

DETROIT SCREW WORKS, 348 Franklin,
 Detroit, Mich. (See adv. index, end of book)

Moran Bolt & Nut Mfg. Co., Florida & Main,
 St. Louis, Mo.

NATIONAL-ACME MFG. CO., 7500 Stanton
 av, S. E., Cleveland, O. (See adv. index &
 branch offices, end of book)

Old Dominion Iron & Nail Works Co., Rich-
 mond, Va.

PHILADELPHIA MACHINE SCREW
 Works, Race & Sheridan, Phila., Pa. (See
 adv. index, end of book)

Reed & Prince Mfg. Co. (Iron & Brass,
 Square & Hexagon), Worcester, Mass.
 Rhode Island Tool Co., Providence, R. I.
 Rochester Machine Screw Co., Rochester, N. Y.

St. Louis Screw Co., 3017 N 13th, St. Louis,
 Mo.

Upson Nut Co., Unionville, Conn., & Clevel-
 land, Ohio

Nuts or Collars

Chicago Screw Co., 519 Homan av, Chicago, Ill.

DETROIT SCREW WORKS, 348 Franklin
 Detroit, Mich. (See adv. index, end of book)

Haskell, Wm. H., Mfg. Co., Pawtucket, R. I.

Hoopes & Townsend Co., 1330 Buttonwood,
 Philadelphia, Pa.

Rhode Island Tool Co., Providence, R. I.

Russell, Burdsall & Ward Bolt & Nut Co.,
 Port Chester, N. Y.

St. Louis Screw Co., 3017 N 13th, St. Louis,
 Mo.

Smith, Thos. & Co., Worcester, Mass.

Nuts (Phosphor Bronze)

Phosphor Bronze Smelting Co., 2204 Washlnton
 av, Philadelphia, Pa.

Nuts (Pipe Sleeve)

American Iron & Steel Mfg. Co., Lebanon &
 Reading, Pa.

*Nuts (Planer Head Bolt)

DETROIT SCREW WORKS, 348 Franklin,
 Detroit, Mich. (See adv. index, end of book)

NATIONAL-ACME MFG. CO., 7500 Stanton
 av, S. E., Cleveland, O. (See adv. index &
 branch offices, end of book)

PHILADELPHIA MACHINE SCREW
 Works, Race & Sheridan, Phila., Pa. (See
 adv. index, end of book)

Nuts (Semi-Finished)

American Iron & Steel Mfg. Co., Lebanon, Pa.

Anthony Screw Co., Worcester, Mass.

Columbus Bolt Works, Columbus, O.

Corbin Screw Corporation, New Britain, Conn.

Chicago Screw Co., 519 Homan av, Chicago, Ill.

Garland Nut & Rivet Co., Pittsburg, Pa.

Graham Nut Co., Pittsburg, Pa.

Hall's, Samuel Sons, 229 W 10th, New York

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

Hoopes & Townsend Co., 1330 Buttonwood, Phil-
 adelphia, Pa.

Milton Mfg. Co., Milton, Pa.

National Acme Mfg. Co., Cleveland, Ohio

National Bolt & Nut Co., Pittsburg, Pa.

Old Dominion Iron & Nail Works Co., Richmond,
 Va.

Pawtucket Mfg. Co., Pawtucket, R. I.

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.

Rochester Machine Screw Co., Rochester, N. Y.

Russell, Burdsall & Ward Bolt & Nut Co., Port-
 chester, N. Y.

St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.

Upson Nut Co., Unionville, Conn., & Cleveland,
 Ohio

Western Automatic Machine Screw Co., Elyria,
 Ohio

Nuts (Sleeve)

American Iron & Steel Mfg. Co. (Hexagon, Pipe
 etc.), Lebanon, Pa.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Moran Bolt & Nut Mfg. Co., Florida & Main,
 St. Louis, Mo.

Mount Carmel Bolt Co., Mount Carmel, Conn.

National Bolt & Nut Co., Pittsburg, Pa.

Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.

Nuts (Stove, Bolt & Rod)

American Screw Co., Providence, R. I.

ATLAS BOLT & SCREW CO., THE, Mar-
 quette, opp. Hamilton av., N. E., Clevel-
 land, O.

Berry Bros., E 1st av & R. R., Columbus, O.

Columbus Bolt Works, Columbus, O.

Corbin Screw Corporation, New Britain, Conn.

DETROIT SCREW WORKS, 348 Franklin,
 Detroit, Mich. (See adv. index, end of book)

Lamson & Sessions Co., Cleveland, O.

Moran Bolt & Nut Mfg. Co., Florida & Main,
 St. Louis, Mo.

Mount Carmel Bolt Co., Mount Carmel, Conn.

Reed & Prince Mfg. Co., Worcester, Mass.

Republic Iron & Steel Co., Pittsburg, Pa.

St. Louis Screw Co., 3017 N 13th, St. Louis,
 Mo.

Nuts (Tapped)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Anthony Screw Co., Worcester, Mass.
 Columbus Bolt Works, Columbus, O.
 Chicago Screw Co., 519 Homan av., Chicago, Ill.
 Colorado Fuel & Iron Co., Denver, Col.
 Corbin Screw Corporation (Square & Hexagon),
 New Britain, Conn.

DETROIT SCREW WORKS, 348 Franklin,
 Detroit, Mich. (See adv. index, end of book)

Garland Nut & Rivet Co., Pittsburg, Pa.
 Graham Nut Co., W. Carson nr Point Bridge,
 Pittsburg, Pa.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila-
 delphia, Pa.

Kansas City Nut & Bolt Co., Kansas City,
 Mo.
 Lamson & Sessions Co., Cleveland, O.
 Lanz, M., & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 National Bolt & Nut Co., Pittsburg, Pa.
 Old Dominion Iron & Nail Works Co., Rich-
 mond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.
 Penn Iron Co., Lancaster, Pa.
 Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.
 Rochester Machine Screw Co., Rochester, N. Y.
 St. Louis Screw Co., 600 E Clarence, St. Louis,
 Mo.
 Smith, Thos. & Co., Worcester, Mass.
 Upson Nut Co., Unionville, Conn., & Cleveland,
 Ohio

Western Automatic Machine Screw Co., Elyria,
 Ohio

*Nuts (Telephone)

NATIONAL-ACME MFG. CO., 7500 Stanton
 av, S E, Cleveland, O. (See adv. index
 & branch offices, end of book)

Nuts (Thumb or Wing)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Besley, Chas. H. & Co., Chicago, Ill.

BETTCHEE MFG. CO., Clark av. at C.,
 C., C. & St. L. Ry, S W, Cleveland, O.
 (See adv. index, end of book)

Billings & Spencer Co., Hartford, Conn.
 Chicago Nut Co. (Brass Only), 118 W Jackson
 boul, Chicago, Ill.

Chicago Screw Co., 519 Homan av, Chicago, Ill.
 Columbus Bolt Works, Columbus, O.
 Corbin Screw Corporation (Brass, Bronze, Iron
 & Steel), New Britain, Conn.

DETROIT SCREW WORKS, 348 Franklin,
 Detroit, Mich. (See adv. index, end of
 Eberhard Mfg. Co., Cleveland, O. book)

Hardware & Woodenware Mfg. Co. (Thumb),
 693 B'way, New York
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
 Hoopes & Townsend Co., 1330 Buttonwood,
 Philadelphia, Pa.

Lamson & Sessions Co., Cleveland, O.
 Logan & Strobbridge Iron Co. (Thumb), New
 Brighton, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.
 Miles, Franklin S. (Est. of), 205 Quarry, Phila.,
 Pa.

Mount Carmel Bolt Co., Mount Carmel, Conn.

PAGE-STORMS DROP FORGE CO.,
 (Thumb, Drop Forged Steel), Chicopee,
 Mass. (See adv. index, end of book)

PHILADELPHIA MACHINE SCREW
 Works, Race & Sheridan, Phila., Pa. (See
 adv. index, end of book)

Pratt & Letchworth, Buffalo, N. Y.
 Quadriga Mfg. Co., 18 S. Canal, Chicago, Ill.

Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.
 St. Louis Screw Co., 600 E. Clarence, St. Louis,
 Mo.

Upson Nut Co., Unionville, Conn., & Cleveland,
 Ohio

Weich, T. F. & Co. (Brass), Boston, Mass.

WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch of-
 fices, end of book)

Nuts (Tire Bolt)

American Screw Co., Providence, R. I.
ATLAS BOLT & SCREW CO., THE, Mar-
 quette, opp. Hamilton av., N. E., Cleve-
 land, O.

Berry Bros., E. 1st av & R. R., Columbus, O.

Columbus Bolt Works, Columbus, O.

Corbin Screw Corporation, New Britain, Conn.

Lamson & Sessions Co., Cleveland, O.

Reed & Prince Mfg. Co., Worcester, Mass.

Republic Iron & Steel Co., Frick bldg Annex,
 Pittsburg, Pa.

Rockford Bolt Co. (Square & Hexagon), Rock-
 ford, Ill.

St. Louis Screw Co., 600 E Clarence, St.
 Louis, Mo.

Upson Nut Co., Unionville, Conn., & Cleve-
 land, Ohio

Nuts (Weldless Eye)

Billings & Spencer Co. ("B. & S.") Drop
 Forged, Hartford, Conn.

Oakum

Alden, H. L., Camden, Me.

American Mfg. Co., 63 Wall, New York

Baltimore Oakum Works (Napoleon B. Wood-
 ward, Prop.), 916 S E'way, Baltimore, Md.

Baker, Wm. T., Jersey City, N. J.

CARPENTER, GEO. B. & CO., 202 S.
 Water, Chicago, Ill. (See adv. index, end
 of book)

Chelsea Fibre Mills, 33 Union sq. Factory,
 Brooklyn, N. Y.

Davey, W. O. & Sons, Jersey City, N. J.

De Graun & Boyden, 14 Coenties st, New
 York

Disbrow & Co., 56 Warren, New York

Hoffman-Corr Mfg. Co., 55 White, Duane,
 New York

Lawrence Cordage Works, 46 South, New York

Marine Mfg. & Supply Co., 156 South, New
 York

Meagher's, Jas., Sons, 327 28th, San Fran-
 cisco, Cal.

Overman & Schrader Cordage Co. (Marine &
 Plumbers), Covington, Ky.

Planet Mill Mfg. Co., 335 Carroll, Brooklyn,
 N. Y.

Stratford, Geo. Oakum Co., Jersey City, N. J.

Tibbals Oakum Co., Cobalt, Conn.

Travers Bros. Co., 41 Worth, New York

TUCKER & CARTER ROPE CO., 76
 South & 167 Malden la., New York. (See
 adv. index, end of book)

Wall, Wm. F., 56 South, New York

Winnle, F. W. & Son, 237 Market, Phila., Pa.

Zelnicker, Walter A., Supply Co. (Cauking),
 St. Louis, Mo.

Oar Mfrs.

Bailey Co. (Steel), 220 21st, Detroit, Mich.

CARPENTER, GEO. B. & CO., 202 S.
 Water, Chicago, Ill. (See adv. index, end
 of book)

Clarendon Boat & Ore Co., Clarendon, Ark.

Davis Boat & Oar Co., Detroit, Mich.

De Grauw Aymer & Co., 34 South, New York

Detroit Boat Works, Detroit, Mich.

Detroit Canoe & Oar Works, Detroit, Mich.

Ester, E. B. & Son, 45 John, New York City

Hunkley Bros. & Co., 58 Commercial, Boston,
 Mass.

New York Boat Oar Co., 69 West, New York

Racine Mfg. Co., Racine, Wis.

Ruchton, J. H., Canton, N. Y.

St. Lawrence River Skiff, Canoe & S. L. Co.,
 Clayton, N. Y.

Sheldon, Orin Co., Boston, Mass.

Smith, Jno. T., 159 South, New York

Squiers, Hy. C. & Son, 20 Cortlandt, New York

Strand-Youngquest Mfg. Co., 2900 Clinton av.,
 Minneapolis, Minn.

Stryker Mfg. Co., Stryker, Ohio.

Trumbull, Ell., Mentone, Ind.

West Unity Mfg. Co., West Unity, Ohio.

Wells Boat Oar Co., Devall Bluff, Ark.

Wilber & Wheelock, Clayton, Ohio.

Oats Cleaner

BOLLES, J. E. IRON & WIRE
 Works, Detroit, Mich. (See adv. index,
 end of book)

Kasper, W. S., Standard Oats Cleaner Co.,
 2020 W. 53rd, S. W., Cleveland, O.

SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index,
 end of book)

Ochres

Blue Ridge Ochre Co., Cartersville, Ga.

Cherokee Ochre Co., Cartersville, Ga.

Davidson, Jas. H., 229 Front, New York

Georgla Peruvian Ochre Co., South Bethle-
 hem, Pa., & Cartersville, Ga.

Hanna & Andrus Mfg. Co. (Chrome Ochres,
 etc.), Chicago, Ill.

Mepharm, Geo. S., & Co., East St. Louis, Ill.

Smith, J. Lee, & Co., 59 Frankfort, New
 York

Star Clay Co., Mertztown, Pa.

Waeber & Lea Co. (French Imported), 118
 Hudson, New York

Willbur, Job, Co., Providence, R. I.

Williams, C. K., & Co., Easton, Pa.

Odometers

(See Meters, Distance Recording)

*Office Furniture ("Allsteel")

GENERAL FIREPROOFING CO.,
 Youngstown, O. (See adv. index & branch
 offices, end of book)

OFFICE FURNITURE AND FILING EQUIPMENT



Vertical and horizontal filing devices to take all
 standard supplies—finished in oak and mahogany
 graining—write for booklet F-76.

Lockers and wardrobes for offices, factories, club
 houses and armories—write for booklet F-58.

Made entirely of steel and carried in stock for im-
 mediate shipment.

COST NO MORE THAN WOOD.

For Bank, Library and Public Building Equipment,
 see adv. opposite Page 49

THE GENERAL FIREPROOFING COMPANY

For Branch Office Addresses, See Advertisers' Index, End of Book.

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OIL WELL SUPPLY CO.

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GAS ENGINES

STEAM ENGINES

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VALVES OF ALL DESCRIPTIONS

STEAM, WATER AND GAS SUPPLIES

PIPE LINE AND REFINERY SUPPLIES

MAIN OFFICES:

PITTSBURGH, PA., U. S. A.

*Office & Loft Building Directories (Changeable)

TABLET & TICKET CO., 70-86 W. Jackson boul., Chicago, Ill., & 381 B'way, New York. (See adv. index & branch offices, end of book)

Ohmmeters

Du Vivier, Ernest H., 30 Church, New York
Keystone Electrical Instrument Co., 9th & Montgomery av., Phila., Pa.
Leeds & Northrop Co., 4901 Stenton av., Gtn., Phila., Pa.

Roller-Smith Co., Bethlehem, Pa.
Sandwich Electric Co. ("Illinois" Direct Reading), Sandwich, Ill.
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

*Oil Burners for Furnaces, Boilers & Melting Tanks

PETROLEUM IRON WORKS CO., Sharon, Pa. (See adv. index & branch offices, end of book)

*Oil Cans (Glass)

BERGER MFG. CO., THE, Main Office & Works, Canton, O. See adv. index & branch offices, end of book)

Oil Cloth Mfrs.

(See also Linoleum Manufacturers)

American Oil Cloth Co. (Table), 262 Canal, New York
Bailey's, C. M., Sons & Co. (Floor), Winthrop, Me.
Blabon, Geo. W. Co. (Floor), 34 N 5th, Phila., Pa.
Chandler Oil Cloth & Buckram Co. (Carriage Enameled), Taunton, Mass.
Columbus Oil Cloth Co. (Table & Enameled), Columbus, O.
Dunn, J. C. & Co. (Floor), Camden, N. J.
Farr & Bailey Mfg. Co. (Floor Oil Cloth & Rugs), Camden, N. J.
Haskell, Robt. C., & Co. (Floor), Troy, N. Y.
James, T. M., & Co. (Table, Shelf), 173 Canal, New York
Monarch Rubber Oil Cloth Co. (Carriage), 41 N. 7th, Phila., Pa.
Nairn Linoleum Co. (Floor), Kearny, N. J.
Potter, Thos., Sons Co. (Inc.), (Floor, Table & Rugs), 522 Arch, Phila., Pa., & 41 Union sq., New York
Sampson, Alden & Sons (Floor), 58 Reade, New York
Standard Table Oil Cloth Co. (Table, Shelf, Stair & Carriage, etc., Enameled), 320 B'way, New York

Taunton Oil Cloth Co., Taunton, Mass.
Trenton Oil Cloth & Linoleum Co. (Table, Shelf & Stair Enameled, etc.), Trenton, N. J.

*Oil Cup Bases (Pressure-Oiling Systems)

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Oil Cups

(See Lubricators, Oil & Grease Cup)

Oil Guns & Syringes

DELTA MFG. CO., Bloomfield, N. J.
Frost Mfg. Co. (Oil Gun), Kenosha, Wis.
Hall Mfg. Co., John & Cliff, New York
Knapp Mfg. Co. (Brass), 20 Warren, New York
Motor Car Supply Co. (Oil Gun), Chicago, Ill.
N. Y. & N. J. Lubricant Co. ("N. F. O." Lubricating Oil Gun), 14 Church, New York
Noera Mfg. Co., Waterbury, Conn.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Oil Hole Covers & Cups

BAY STATE STAMPING CO. ("Bennett," Self Closing), 380 Chandler, Worcester, Mass. (See adv. index, end of book)
Bowen Mfg. Co., Auburn, N. Y.
Tucker, W. W. & C. F. ("Tucker" Two-piece Self Closing), Hartford, Conn.
Winkley Co., Detroit, Mich.

Oil of Vitriol

Butterworth-Judson Co., Newark, N. J.
Cochrane Chemical Co., Boston, Mass.
Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd, Philadelphia, Pa.
Laureldale Chemical Works, Providence, R. I.
Mechling Bros. Mfg. Co., Phila., Pa.
Merrimac Chemical Co., Boston, Mass.

*Oil Refineries Complete (Constructors of)

PETROLEUM IRON WORKS CO., Sharon, Pa., & Farmers' Bank bldg., Pittsburg, Pa. (See adv. index, end of book)

REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)

Oil Stains

(See Wood Stains)

Oil Stones

(See Stones, Oil & Water)

*Oil Storage Paint

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

*Oil Storage Systems

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Oil Well Supplies (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index, & branch offices end of book)
Boston Woven Hose & Rubber Co., Cambridge, Mass.

Continental Rubber Works, Erie, Pa.
Goodrich, B. F., Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Home Rubber Co., Trenton, N. J.
N. J. Car Spring & Rubber Co., Jersey City, N. J.

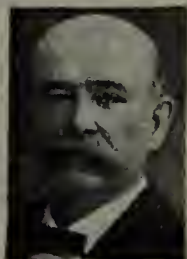
Peerless Rubber Mfg. Co., 16 Warren, New York
PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)

Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Oil & Gas Well Supplies

Acme Supply Co., Corsicana, Tex.
Adams Bros. Co., Findlay, O.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Angell Mfg. Co. (Brass & Steel Specialties), Franklin, Pa.
Bayne, Wilson & Pratt, Pittsburg, Pa., & Bradford, Pa.
Bennett, Jas. E., Emlenton, Pa.
Bovaird & Seyfang Mfg. Co., Bradford, Pa.
Busch, A. H. Co., Los Angeles, Cal.
Caldwell, E. R. & Co., Bradford, Pa.
California Supply Co., Los Angeles, Cal.
Campbell, J. G. & W., Butler, Pa.
Childs, Jno., Smiths Ferry, Pa.
Clark Supply Co., Noblesville, Ind.
Corlett & Co., Knox, Pa.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Dresser, S. R. (Specialties), Bradford, Pa.
Dunham, Carrigan & Hayden Co., San Francisco, Cal.
DU PONT, E. I. de NEMOURS POWDER CO. (Oil Well Explosives), Wilmington, Del. (See adv. index & branch offices, end of book)

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Self Closing made in sizes $\frac{1}{4}$ to $\frac{3}{8}$ Varying 1-16
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Emery, L., Jr., & Co., Bradford, Pa.
 Emery, W. N. & Son, Franklin, Pa.
 Evans Mfg. Co., Butler, Pa.
 Findlay Foundry & Machine Co., Findlay, O.
 Frick-Reid Supply Co., Bartlesville, Okla.
 Frick & Lindsay Co., 109 Wood, Pittsburg, Pa.
 Gallaway, G. W., 322 Pearl New York
 Harper & Reynolds Co., Los Angeles, Cal.
 Harron, Richard & McCone (Inc.), San Francisco, Cal.
 Hays, E. F. & Sons, Chicora, Pa.
 Heller, Alier & Co., Napoleon, O.
 Herron, R. H. Co., Los Angeles, Cal.
 Hoch Bros., Chicora, Pa.
 Hooker, J. D. Co., Los Angeles, Cal.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Johnson, C. H., Chicora, Pa.
 Jones, S. M. Co., Toledo, O.
 Kane Supply Co., Kane, Pa.
 Kelsner, Geo., & Co., Muncie, Ind.
 Kelly & Jones Co., 135 Water, Pittsburg, Pa.
 Kesselman & Co., Butler, Pa.
 Laney, T. G., Lima, O.
 Laughner, E. E., Ethel Landing, Pa.
 Leidecker Tool Co., Marietta, O.
 Leschen, A. & Sons Rope Co., St. Louis, Mo.
 Logan, A. W., Oil City, Pa.
 McDowell, W. I., Knox, Pa.
 McEwen Bros., Wellsville, N. Y.
 McFie, W. T. Supply Co., Los Angeles, Cal.
 Magee, Jno. A. & Son, Clarion, Pa.
 Masseth Packer & Machine Works, Butler, Pa.
 Mitchell, H. B., Emlenton, Pa.
 Moorhouse, G. W., Kinzua, Pa.
 Muncie Gas Engine & Supply Co., Muncie, Ind.
 National Supply Co., Toledo, O.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)

Parke & Lacy Co., San Francisco, Cal.
 Pattin Bros. Co., Marietta, O.
 Pickett Hardware Co., Warren, Pa.
 Prichard, F. A. & Co., Mannington, W. Va.
 Reid, Jos., Gas Engine Co., Oil City, Pa.
 Rouseville Supply Co., Rouseville, Pa.
 Sennett, G. B. Co., Youngstown, O.
 Sherrnan, J. B., Butler, Pa.
 Sinclair & Morrison Co., Lima, Ohio
 Spence & Smith, Parkersburg, W. Va.
 Stiles Foundry & Supply Co., Parkersburg, W. Va.
 Tay, Geo. H. Co., 49 1st, San Francisco, Cal.
 Turner, C. H. Co., Parkersburg, W. Va.
 Wyssbrod, E. V. & Co., Findlay, O.
 Young & Groove, Eldred, Pa.

Oil & Grease Cups

(See Lubricators, Oil & Grease Cup)

Oil & Grease Extractors

(See also Separators, Steam & Oil)

Acton, John ("Neison," Water Separator or Grease Extractor), 118 John, Brooklyn, N. Y.
 Ambrose Machine Co., Eagle & Provost, Brooklyn, N. Y.
 Atwood & Morrill ("XX Century"), Salem, Mass.
 Austin Separator Co., 55 Woodbridge, Detroit, Mich.
BEGGS, JAMES & CO. ("Blackburn-Smith" Feed Water Filter & Grease Extractor), 109 Liberty, New York. (See adv. index, end of book)
 Consolidated Engineering Co. ("Van Auken"), cor. Jackson & Canal, Chicago, Ill.
 Direct Separator Co. ("Sweets"), Detroit, Mich.

REILLY Grease Extractor

Filters water through toweling and removes oil, grease and other impurities.

Designed for High Pressure.

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90 West Street, NEW YORK, N. Y.

GRISCOM-SPENCER CO. ("Reilly-Eb-sen") 90 West, New York, & Ft. Washington av., Phila., Pa. (See adv. index & branch office, end of book)
Hussey, McCann & Co. ("Peerless" Grease), 87 Warren, New York
Jacobs, C. & Co. ("Lowden"), 51 Oliver, Boston, Mass.
Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Jarvis Engine & Machine Works ("Monitor"), Lansing, Mich.
Kruger & Blind Co., 511 Master, Phila., Pa.
Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.
Loew Mfg. Co. ("Loew"), Cleveland, O.
Multicoll Co., 78 Broad, New York
Nicholson, W. H., & Co. ("Wyoming" Automatic), Wilkesbarre, Pa.
Reliance Mfg. Co., Cleveland, O.
Robertson, Jas. L. & Sons, Inc. ("Hines"), 48 Warren, New York
Sims Co., Erie, Pa.
Watson & McDaniel Co. ("Jennings"), 146 N. 7th, Phila., Pa.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Oilers (Car Journal Box)

Armstrong Oiler Co. (Automatic), Commonwealth bldg, Philadelphia, Pa.

Oilers (Car Pit)

Hawkins Car Oiler & Specialty Mfg. Co., Inc. ("Hawkins"), Lowell, Mass.
 McClintock & Irvine Co., Pittsburg, Pa.
 Wall, P., Mfg. Supply Co. ("Wall's"), Allegheny, Pa.

*Oilers (Cross Head Pin)

LUNKENHEIMER CO. ("H.-W."), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Oilers (Engine & Machine)

(See also Cans, Oil, Etc.)

American Tube & Stamping Co. (Steel, Brass, Copper or Nickel Plated), Bridgeport, Conn.
 Bloomer, R. E. ("Cannon"), Keithsburg, Ill.
 Bower Mfg. Co., Auburn, N. Y.
 Consolidated Fruit Jar Co. (Zinc, Brass & Copper), New Brunswick, N. J.
 Detroit Ship Building Co. (Brass Department), Detroit, Mich.
 Deverall Perfection Mfg. Co. ("Deverall"), Coney Island av & Johnson pl., Brooklyn, N. Y.
 Dover Stamping & Mfg. Co. (Tin & Brass), Cambridge, Mass.
 Draper Co. ("Getchell's Improved 'Thompson'"), Hopedale, Mass.
 Dressel Railway Lamp Works, 3860 Park av., New York
 Essex, G. B., Brass Co., Detroit, Mich.
 Gans, Jno. L. ("The Tormay"), Connellsville, Pa.
 Gem Mfg. Co. ("Gem" & "Pyramid"), Polished Brass & Steel Bright Finish, Spruce nr 33d, Pittsburg, Pa.
 Geuder & Paeschke & Frey Co. (Pieced Tin & Galvanized Iron, Bent & Straight Spout, also Spring Bottom Oilers), Milwaukee, Wis.
 Gustafson Mfg. Co. (Rapid Fire Car Wheel), Chattanooga, Tenn.
 Hall Mfg. Co. ("Hall's," "Bartow"), John & Cliff, New York
 Hammer & Co. (Malleable Iron), Branford, Conn.
 Hero Fruit Jar Co., Gaul & Adams, Phila., Pa.
 Iron Clad Mfg. Co. ("Thompson"), 46 Cliff, New York
 Ironsides Co. ("Tormay" for Mine Cars), Columbus, O.
 Jackson, J. W. ("Jackson" Tin Self Closing Engine Oiler), Sharpsville, Pa.
 Johnson Mfg. Co., Urbana, O.
 Knapp Mfg. Co. (Engineers' Brass Sets), 20 Warren, New York
 Lavigne Mfg. Co., Detroit, Mich.
 Lonergan, J. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McClintock & Irvine Co. ("M. & I." Sheet Steel), Pittsburg, Pa.
 Manhattan Brass Co. (Brass & Zinc), 334 E 28th, New York

Maple City Mfg. Co. ("Howland" Pump & Valve Oiler), Monmouth, Ill.
 Michigan Lubricator Co. ("Michigan" Sight Feed & Steel & Nickel Hand Oilers), Detroit, Mich.
 Noera Mfg. Co. ("Noera," "Thompson," "Puritan" Brass & Steel, of All Kinds), Waterbury, Conn.
 Nugent, Wm. W. & Co. ("Nugent," Crank & Crosshead Pin, etc.), 18 W. Randolph, Chicago, Ill.
 Pederson Mfg. Co., 636 1st av., New York
 Penberthy Injector Co., 346 Heiden av., Detroit, Mich.
 Powell, Wm. Co. (Glass, Plain & Sight Feed), 25-29 Spring Grove av., Cincinnati, O.
 Sands Mfg. Co. ("Sands," Steel Braided), Allegheny, Pa.
 Tower & Lyon Co. ("Dome," Spring Bottom, Malleable Iron), 95 Chambers, New York
 Vogel, Wm. & Bros. ("Acme"), 37 S 9th, Brooklyn, N. Y.
 Wall, P. Mfg. Supply Co. ("Wall's" Vent, Pyramid, Steel & Spring Bottom), Allegheny, Pa.
WHITMAN & BARNES MFG. CO., (Copperized Steel, etc.), Chicago, Ill. (See adv. index & branch offices, end of book)
 Wilkinson Mfg. Co. ("Wilkinson" Force Feed), 69 Wall, New York
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Oilers (Floor)

Garnet, Geo. H. ("Universal"), Allentown, Pa.

Oilers (Locomotive)

Dressel Railway Lamp Works, 3860 Park av., New York
 Gem Mfg. Co. ("Gem" Steel), Pittsburg, Pa.
 Gray, Peter & Sons (Engineers' Heavy), 88 Union, Boston, Mass.
 Handlan-Buck Mfg. Co. ("Perfection" Valve), St. Louis, Mo.
 Jackson, J. W. ("Jackson" Oil Can), Sharpsville, Pa.
 Johnson Mfg. Co., Urbana, O.
 Knapp Mfg. Co., 20 Warren, New York
 Lonergan, J. E. & Co. (Piston Rod, Guide Valve, Stem Oilers, etc.), 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Maple City Mfg. Co. ("Howland" Pump Oilers, etc.), Monmouth, Ill.
 Penberthy Injector Co., Detroit, Mich.
 Noera Mfg. Co. ("Noera" Brass & Steel of All Kinds), Waterbury, Conn.
 Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Oilers (Loose Pulley)

American Lubricator Co. ("American"), Detroit, Mich.
 Gem Mfg. Co., Pittsburg, Pa.
 Herring, W. C. & McGinty Co. ("Perfect"), Mansfield, O.
 Lawson Mfg. Co. (Oil Cups), Buffalo, N. Y.
 Lonergan, J. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Swain Lubricator Co. ("Swain"), c Lake & S Water, Chicago, Ill.
 Van Dusen, E. W. Co., 428 E 2d, Cincinnati, Ohio

Oilers (Mowing Machine)

Akron Mfg. Co., Akron, O.
 American Tube & Stamping Co. (Copperized Steel Spring Bottoms), Bridgeport, Conn.
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
 Geuder & Paeschke & Frey Co., Milwaukee, Wis.
 Maple City Mfg. Co. ("Howland" Pump Oilers, etc.), Monmouth, Ill.
 Noera Mfg. Co. ("Noera"), Waterbury, Conn.
 Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

*Oilers (Multiple)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Oilers (Self-Closing, Dust Proof)

Bowen Mfg. Co., Auburn, N. Y.

Oilers (Spring)

American Tube & Stamping Co., Bridgeport, Conn.
 Gem Mfg. Co., Pittsburg, Pa.
 Hammer & Co., Brandford, Conn.
 Republic Metal Co., Buffalo, N. Y.
 Tower & Lyon Co., 95 Chambers, New York

Oilers (Windmill)

Red Cross Mfg. Co. (Automatic), Bluffton, Ind.

Oiling Sets (Engineers')

American Tube & Stamping Co. (Steel Copper-ized & Nickel Plated), Bridgeport, Conn.
 Consolidated Fruit Jar Co. ("Paragon"), New Brunswick, N. J.
 Deverall Perfection Mfg. Co. ("Perfection"), Coney Island av & Johnson pl, Brooklyn, N. Y.

Dressei Railway Lamp Works, 3860 Park av, New York
 Gem Mfg. Co. ("Gem" Steel), Pittsburg, Pa.
 Hall Mfg. Co. ("Hall's"), John & Cliff, New York

Knapp Mfg. Co., 20 Warren, New York
 Noera Mfg. Co. ("Noera" Steel, Copper Plated), Waterbury, Conn.

PITTSBURGH GAGE & SUPPLY CO.
 ("White Star" Continuous), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

Vogel, Wm., & Bros., Brooklyn, N. Y.
 Wall, P., Mfg. Supply Co. ("Walls"), Allegheny, Pa.

WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of book)

Oiling Systems (Continuous)

PITTSBURGH GAGE & SUPPLY CO.
 ("White Star"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

Syracuse Gauge Mfg. Co., Syracuse, N. Y.

Oils (Analine)

Armitage Mfg. Co., Richmond, Va.
INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)
 Mills, C. E. Oil Co., Syracuse, N. Y.

***Oils (Automobile)**

INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)

Oils (Bicycle & Sewing Machine)

INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)
 Mills, C. E. Oil Co., Syracuse, N. Y.
 Nye, Wm. F., New Bedford, Mass.
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York
 Union Petroleum Co., 135 S 2d, Phila., Pa.

Oils (Car Cleaning)

Columbia Refining Co. ("Columbia" Varnish Cleaner & Preserver), 90 West, New York

Oils (Castor)

Baker, H. J., & Bro., 100 William, New York

Fuerst Bros. & Co., 2 Stone, New York
 National Lead Co., New York

Oils (Castor Machine)

Bulls Head Oil Works, San Francisco, Cal.
INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)
 Sonneborn, L. Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Cement Floor)

Mills, C. E. Oil Co., Syracuse, N. Y.
 Sonneborn, L. Sons (Inc.), ("Amalia") Dust Layer, 262 Pearl, New York

Oils (Cochin)

Mills, C. E. Oil Co., Syracuse, N. Y.
 Welch, Holme & Clark Co. ("East India"), 383 West, New York

Oils (Cocoanut)

Elbert & Werlemann (Inc.), 68 Broad, New York
 Fuerst Bros. & Co., 2 Stone, New York

Hill's, Edw., Sons & Co., 71 Pine, New York
 Hollingsworth & Peterson, Phila., Pa.

Magnus, Babee & Reynard (Inc.), 257 Pearl, New York
 McKesson & Robbins, 91 Fulton, New York

Mills, C. E. Oil Co., Syracuse, N. Y.
 Paterson, Boardman & Co., 8 Bridge, New York

Tennant, C., Sons & Co., 76 William, New York
 Welch, Holme & Clark Co., 383 West, New York

Winkler, Isaac Bro., Cincinnati, O.

Oils (Core)

(See also Compounds, Core)

HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)

Holland Linseed Oil Co., 633 Austin av, Chicago, Ill.
 Mills, C. E. Oil Co., Syracuse, N. Y.

National Core Oil Co. (Oil or Compounds), Corn- ing, N. Y.
 Sterling Oil Co. ("Sterling"), Emlenton, Pa.

Oils (Corn)

American Hominy Co., Indianapolis, Ind.
 Corn Products Refining Co. ("Paragol" Un- adulterated), 26 B'way, New York

Oils (Cottonseed)

American Cotton Oil Co. ("I. & L."), 21 Beaver, New York
 Curry, W. C. Co., Louisville, Ky.

Havens Oil Co., Washington, N. C.
 Louisville Cotton Oil Co., Louisville, Ky.

Mills, C. E. Oil Co., Syracuse, N. Y.
 Portsmouth Cotton Oil Refining Co., Ports- mouth, Va.

Proctor & Gamble Co., Cincinnati, O.
 Trinity Cotton Oil Co., Dallas, Tex.

Winona Oil & Mfg. Co., Winona, Miss.

Oils (Creosote)

Armitage Mfg. Co., Richmond, Va.
 Barrett Mfg. Co., Land Title Bldg., Phila- delphia, Pa.

Cromwell-Walker Co., Harrison, N. J.
 Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York

Lewis Roofing Co., Rock Island, Ill.
 McClintock & Irvine Co., Pittsburg, Pa.

Mills, C. E. Oil Co., Syracuse, N. Y.
 Walker-Cromwell Co., Kearny, N. J.

Wilckes, Martin, Wilckes Co., 135 William, New York

Oils (Cutting & Polishing)

Houghton, E. F. & Co., 240 W Somerset Philadelphia, Pa.

INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)

Mills, C. E. Oil Co., Syracuse, N. Y.
 Sonneborn, L. Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Cycle)

Buffalo Specialty Co. ("Fragrant"), 375 El- licott, Buffalo, N. Y.

Mills, C. E. Oil Co., Syracuse, N. Y.
 National Cement & Rubber Mfg. Co. ("Oiline" & "Verybest"), Toledo, O.

Oils (Cylinder)

(See Lubricating Oils & Greases)

Oils (Drilling)

Houghton, E. F. & Co., 240 Somerset, Phil- adelphia, Pa.

Mills, C. E. Oil Co., Syracuse, N. Y.
 Sonneborn, L. Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Fish)

Brown, Ellery & Co. (Sperm, Whale, Cod, etc.), Salem, Mass.

Cook, N. B., Oil Co. (Sperm, Whale, Sea Elephant, Cod, Neatsfoot, etc.), 148 Front, New York

Mills, C. E. Oil Co., Syracuse, N. Y.

Robinson, W. A., & Co. (Sperm, Whale, Menhaden, Sea Elephant, etc.), New Bedford, Mass.

Swan & Finch Co. (Sperm, Fish, Whale, Cod, Seal, etc.), 151 Maiden Lane, New York

INDIAN : REFINING : COMPANY

INC.

HIGH GRADE PETROLEUM PRODUCTS

Produced from High Grade third sand paraffine base Illinois Crude.

BURNING OILS.

MAXIMUM CANDLE POWER.
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HIGHEST VISCOSITY AND FIRE TEST.
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Special Test NAPHTHAS For Special Purposes. Fuel Oil. Gas Oil.**GLOSS OIL NAPHTHA.**

General offices, First Nat'l Bank Bldg.,

CINCINNATI. = OHIO.

Refineries: LAWRENCEVILLE, ILLS.
 GEORGETOWN, KY.
 EAST ST. LOUIS, ILLS.

Oils (Floor)

Mills, C. E. Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons (Inc.), ("Amalia"; also
 "Amalia" Wax Gloss), 262 Pearl, New York

Oils (Fusel)

Albany Chemical Co., Albany, N. Y.
 McKesson & Robbins, New York
 Maas & Waldstein, 100 William, New York
 Mills, C. E. Oil Co., Syracuse, N. Y.
 National Aniline & Chemical Co., 100 William, New York

Oils (Gas & Fuel)

Associated Oil Co. (Crude Fuel Oil), San Francisco, Cal.
 Bulls Head Oil Works, San Francisco, Cal.
 Emery Mfg. Co., Bradford, Pa.
 Freedom Oil Works Co., Freedom, Pa.
 Gulf Pipe Line Co., Frick Bldg. Annex, Pittsburgh, Pa.
INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)
 Manufacturers Paraffine Co., Chester, Pa.
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Prairie Oil & Gas Co., Independence, Kan.
 Richardson-Gay Oil Co., Corsicana, Texas
 Rollin Mfg. A'ssn. & Tank Line Co., Channute, Kan.
 Standard Oil Co., 555 W 25th, New York
 Sun Oil Co., Toledo, O.
 Union Petroleum Co., 125 S 2d, Phila. Pa.

Oils (Harness)

Frazer Lubricator Co. ("Frazer"), 83 Murray, New York
 Freedoms Oil Works Co., Freedom, Pa.
 Imperial Leather Preserver Mfg. Co. (Water Proof), 216 Chandler, Philadelphia, Pa.
 Miller, Frank Co., 349 W 26th, New York
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons ("Amalia"; also Grease), 262 Pearl, New York
 Standard Oil Co. ("Eureka"), 555 W 25th, New York
 Victor Mfg. Co., 72 Chestnut, Newark, N. J.

Oils (Headlight)

Freedoms Oil Works Co., Freedom, Pa.
 Galena Signal Oil Co. ("Galena"), Franklin, Pa.
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Horse)

American Reduction Co., Pittsburgh, Pa.
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Illuminating)

Derrick Oil Co., Titusville, Pa.
INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)
 Loos & Dilworth, 134 S Front, Phila., Pa.
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Paragon Refining Co., Toledo, O.
 Penn Refining Co., Oil City, Pa.
 Standard Oil Co., 555 W 25th, New York

Oils (Japan)

Mills, C. E., Oil Co., Syracuse, N. Y.
 Sipe, Jas. B. & Co., Allegheny, Pa.
 Thompson & Co., Allegheny, Pa.

Oils (Japinol)

Columbia Refining Co., 90 West, New York

Oils (Kerosene)

Bulls Head Oil Works, San Francisco, Cal.
 Great Western Oil Co. ("Palacelite"), Cleveland, O.
 Gulf Refining Co., Pittsburgh, Pa.
INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Standard Oil Co., 555 W 25th, New York

Oils (Lard)

Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Lawn Mower)

Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York
 Supplee Hardware Co. ("Pennsylvania"), 503 Market, Phila., Pa.

Oils (Linseed)

(See Linseed Oil & Cake Mills)

Oils (Lubricating)

(See Lubricating Oils & Greases)

Oils (Lustre)

Houghton, E. F. & Co. (For Velvet & Plush Mfgs.), 240 Somerset, Phila., Pa.
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Miners' Torch)

INDIAN REFINING CO. ("Rarus,"
 "Guiding Star"), Cincinnati, O. (See adv. index, end of book)
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Neatsfoot)

Harshaw, Fuller & Goodwin Co., Cleveland, Ohio
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Paint)

Akron Varnish Co., Akron, O.
 Ball Chemical Co. ("Oxolin"), Pittsburgh, Pa.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Palm)

Crooks, Rob & Co., 135 Front, New York
DOGGETT, STANLEY, 101 Beekman, New York,
 (See adv. index, end of book)
 Marden, Orth & Hastings, 225 Purchase, Boston, Mass.
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Osborn, A., & Co., 236 Milk, Boston, Mass.
 Welch, Holme & Clark Co., 383 West, New York
 Young, Frank L. & Kimball, Boston, Mass.

Oils (Paraffine)

Emery Mfg. Co., Bradford, Pa.
 Manufacturers Paraffine Co., Chester, Pa.
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Penna Paraffine Works, Titusville, Pa.
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Pine)

Atlantic Turpentine Co. (for Paints, Varnish, Soaps, Stains, Polishes, etc.), Savannah, Ga.
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Walker Chemical Works, Harrison, N. J.

Oils (Pistonite)

Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Polishing)

(See Polish, Furniture)

Oils (Red)

Bulls Head Oil Works Co. (Machine), San Francisco, Cal.
 Goodwin Mfg. Co., St. Louis, Mo.
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Manufacturers Paraffine Co. ("Victor"), Chester, Pa.
 Schneider, E., & Co. (Saponified), Flsher Bldg., Chicago, Ill.
 Shaw, John, & Co. (Turkey Red), Boston, Mass.
 Sonneborn, L., Sons (Inc.), ("Amalia," Turkey Red), 262 Pearl, New York

Oils (Rosin)

Binney & Smith Co., 81 Fulton, New York
 Casey, Jno. A. Co., 144 Maiden La, New York
 Magnus, Mabree & Reynard, 257 Pearl, New York
 Mills, C. E., Oil Co., Syracuse, N. Y.
 New York Rosin Oil & Varnish Co., 82 Beaver, New York
 Peninsular Naval Stores Co., Tampa, Fla.
 Willcox-Ives Oil Co., Savannah, Ga.

Oils (Safety Lamp)

Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Shingle Stain)

Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Signal)

Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York

Oils (Silk)

Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons ("Amalia" for Textile Use), 262 Pearl, New York

Oils (Skid)

Bulls Head Oil Works, San Francisco, Cal.
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Soluble)

Shaw, John, & Co., Boston, Mass.
 Thomsen Chemical Co., Baltimore, Md.

Oils (Tanners')

Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons (Inc.), ("Amalia" Oils & Greases), 262 Pearl, New York

Oils (Tar)

Georgia Pine Turpentine Co. of N. Y., 158 Perry, New York
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Tempering)

Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.

Mills, C. E., Oil Co., Syracuse, N. Y.
 Osborn-Colwell Co., 40 Cliff, New York
 Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York
 Zurn, O. F. Co., Broad & Lehigh, Phila., Pa.

Oils (Transformer)

Mills, C. E., Oil Co., Syracuse, N. Y.
 Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York

Oils (Turbine Engine)

INDIAN REFINING CO., Cincinnati,
 O. (See adv. index, end of book)
 Mills, C. E., Oil Co., Syracuse, N. Y.

Oils (Typewriter)

Mills, C. E., Oil Co., Syracuse, N. Y.
 Morton Mfg. Co. ("Morton" Odorless), Louisville, Ky.
 Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York

Oils (Wood)

Anderson, Geo. & Co., 100 William, New York
 Gillespie, L. C., & Sons, 8 Fletcher, New York
 Klipstein, A. & Co., 122 Pearl, New York
 Mills, C. E., Oil Co., Syracuse, N. Y.
 Paterson, Boardman & Co., 10 Bridge, New York
 Peabody, Henry W., & Co., 17 State, New York
 Schmitz, C. & Co., 162 Greene, New York
 Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York

Old Metals

(See Scrap Iron & Steel)

Onyx Importers

BOCKMANN & SHEPARD, 1265-9 B'way,
 New York. (See adv. index, end of book)

Grace, Wm., 120 Front, New York
 Jackson, C. D., 105th & E. R., New York
 Tompkins-Kiel Marble Co., 505 5th av, New York

***Onyx (Opal)**

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

Onyx Workers

Christa, Philip & Sons, 508 Lafayette, av, Detroit, Mich.
 Empire City Marble Co., 250 11th av, New York
 Fischer, Robert C. Co., E 139th & Locust av, New York
 Lautz & Co., 861 Main, Buffalo, N. Y.
 McGratty & Sons, 335 Butler, Brooklyn, N. Y.
 Marblecrete Products Co. ("Marblecrete" Imitation), Akron, N. Y.
 New Pedrara Mexican Onyx Co. (Workers & Producers), San Diego, Cal.
 Pickel Marble & Granite Co., 1901 N B'way, St. Louis, Mo.

Openers (Box)

American Cutlery Co. (Steel Nickel-Plated Cigar Box, etc.), 193 Mather, Chicago, Ill.
 Arcade Mfg. Co., Freeport, Ill.
 Bonner, C. E. Mfg. Co. ("Victor" Drop Forged), Chrisman, Ill.
 Duffy Mfg. Co., 125 Indiana, Chicago, Ill.
 Herculever Co. ("Herculever" Packing Box), 106 Lafayette, New York
 Mellor Box Opener Co. ("Mellor" Box Opener, Nall Puller & Hammer), Sedalia, Mo.
 National Selling Co. (Also Cigar Box), Allentown, Pa.
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Vaughn & Bushnell Mfg. Co. ("V. & B." for Shoe Dealers, etc.), Chicago, Ill.

Openers (Cigar Box)

American Cutlery Co., 193 Mather, Chicago, Ill.
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 National Selling Co., Allentown, Pa.
 Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.
 Stortz, John & Son, 210 Vine, Phila., Pa.

Openers (Egg)

Taplin Mfg. Co. ("Champion"), New Britain, Conn.

Openers (Letter)

American Cutlery Co., 191 Mather, Chicago, Ill.
 Benedict, M. S., Mfg. Co., East Syracuse, N. Y.
 Celluloid Co., Newark, N. J.
 Curtis, Albert B. ("Curtis"), Worcester, Mass.
 Mossberg, Frank, Co., Attleboro, Mass.
 National Cutlery Co. (Nickel Steel), Westmoreland & Boudnot, Phila., Pa.
 Tilley Pratt Co., Essex, Conn.
 Wallace & Sons Mfg. Co., Wallingford, Conn.

Opera Chairs & Assembly Seating

Allen Chair Co., Concord Junction, Mass.
 Allen-Totman Co., 90 Canal, Boston, Mass.
 American Seating Co., 90 Wabash av., Chicago, Ill.
ANDREWS, A. H. CO., 174 Wabash av., Chicago, Ill. (See adv. index & branch offices, end of book)
 Cincinnati Seating Co., Vine & 6th, Cincinnati, Ohio

Columbus School Desk Co., Columbus, Ga.
 Fridman Seating Co., New Richmond, O.
 Galpen, R. H., 114 5th av, New York
 Grand Rapids Furniture Mfg. Co., Grand Rapids, Mich.
 Moore Mfg. Co., Springfield, Mo.
 Readsboro Chair Mfg. Co., Readsboro, Vt.
 Spencer Desk Co., San Francisco, Cal.
 Stafford, E. H., Mfg. Co., 248 Adams, Chicago, Ill.
 Whitaker & Ray Co., San Francisco, Cal.

Ordinance (Light & Heavy)

Bethlehem Steel Co. (Of All Calibres), South Bethlehem, Pa.

Ore Concentration

Rittenhouse Gap Concentrating Co., Fullerton, Pa.

Ore Trestles & Tipples (Steel)

(See Tipples, Mine)

Ores (Antimony)

Beer, Sondheimer & Co., 42 B'way, New York
 Hill, Edw., & Sons, 71 Pine, New York

Ores (Bauxite)

Harrison Bros. & Co., 35th & Grays Ferry Rd., Philadelphia, Pa.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Lennig, Chas., & Co., 112 S. Front, Phila., Pa.
 Pennsylvania Salt Co., 115 Chestnut, Philadelphia, Pa.
 Waeber & Lea Co., 118 Hudson, New York

Ores (Chrome)

Blair, Reed F. & Co., Frick bldg, Pittsburgh, Pa.
 Harbison-Walker Refractories Co., Farmers' Bank bldg, Pittsburgh, Pa., & 1133 B'way, N. Y.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Tennant, C., Sons & Co., 76 William, New York

Ores (Copper)

Ajax Metal Co., 46 Richmond, Phila., Pa.
 American Metal Co. (Ltd.), 52 Broadway, New York
 Baltimore Copper Smelting & Rolling Co., Keyser Bldg., Baltimore, Md.
 Beer, Sondheimer & Co., 42 B'way, New York
 Mountain Copper Co., San Francisco, Cal.
 Peyton Chemical Co., San Francisco, Cal.
 Tottenville Copper Co., Tottenville, N. Y.
 Vogelstein, L. & Co., 100 B'way, New York

*Ores (Garnet)

LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

*Ores (Gold)

LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

Ores (Iron)

Beer, Sondheimer & Co., 42 B'way, New York
 Corrigan, McKinney & Co., Perry-Payne bldg., Cleveland, O.
 Carrigan, McKinney & Co., Perry-Payne bldg., Cleveland, O.
 Lake Erie Ore Co., Rockefeller bldg, Cleveland, O.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Snyder, W. P., & Co. (Bessemer & Non-Bessemer), Frick Bldg., Pittsburgh, Pa.
 Tod-Stambaugh & Co. (Selling Agents), Perry-Payne bldg. Cleveland, O.
 Youngstown Sheet & Tube Co., Youngstown, O.

Ores (Lead)

Beer, Sondheimer & Co., 42 B'way, New York
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Selby Smelting & Lead Co., San Francisco, Cal.

Ores (Manganese)

Beer, Sondheimer & Co., 42 B'way, New York
 Dana & Co., 32 B'way, New York
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
 Stanley's Creek Manganese & Iron Co. (Miners), Marion, Va.
 Southern Manganese & Steel Co., Cave Spring, Ga., & Prudential bldg. Atlanta, Ga.
 Tennant, C., Sons & Co., 76 William, New York

*Ores (Silica)

LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

Ores (Vanadium)

American Vanadium Co., Pittsburgh, Pa.

Ores (Zinc)

American Metal Co. (Ltd.), 52 B'way, New York
 Beer, Sondheimer & Co., 42 B'way, New York
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

Organ Motors

(See Motors, Organ)

Organs (Church)

Austin Organ Co., Hartford, Conn.
 Bates & Culley, 706 Mercy, Philadelphia, Pa.
 Beach & Freitag, Troy, N. Y.
 Burlington Pipe Organ Co., Burlington, Iowa.
 Estey Organ Co., Brattleboro, Vt.
 Farrand Co., Detroit, Mich.
 Felgemaker, A. B. Erie Organ Co., Erie, Pa.
 Hall, H. & Co. (Pipe Organs), New Haven, Conn.
 Hillgreen, Lane & Co., Alliance, O.
 Howard, Emons, Westfield, Mass.
 Hutchins-Votey Organ Co., Albany & Pacific, Cambridge, Mass.
 Kimball, W. W. Co., Wabash av & Jackson boul, Chicago, Ill.
 Niemann, H., 655 W Lombard, Baltimore, Md.
 Odell, J. H. & C. S. & Co., 409 W 42d, New York
 Schuelke, Wm. Organ Co., Milwaukee, Wis.
 Stein, Adam, 668 W German, Baltimore, Md.
 Viner & Son, 30 Lansing, Buffalo, N. Y.
 Votey Organ Co., 362 5th av, New York
 Werching Organ Co., Alliance, O.
 Woodberry, Jesse & Co., 520 Harrison av, Boston, Mass.

Organs (Military Band)

Parker, C. W., Abilene, Kan.

*Ornamental Iron & Bronze Work (for Export)

STANDARD CO., Railway Exchange bldg., Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

*Ornamental Radiator Screens

STANDARD CO., Railway Exchange bldg., Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

Ornaments (Cast Iron)

Bethlehem Foundry & Machine Co. (For Builders' Iron Work), Front, South Bethlehem, Pa.
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)

Ornaments (Composition)

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)

Beattie Mfg. Co., 2202 Pine, St. Louis, Mo.
 Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
 Dittgen & Rapp, Spencer av, Norwood, O.
 Emmel, Chas. & Rose Co. (Papier Mache Compo Staff, Plaster, etc.), 383 Albany, Boston, Mass.

Forman Bros., 645 Gates av, Brooklyn, N. Y.
 Gossert, Henry, 320 Harmony, Phila., Pa.
 Harsha, L. R. Mfg. Co., Chicago, Ill.
 Hartmann, Malcolm, Co., Chicago, Ill.
 Jennens, W. Mfg. Co., Kansas City, Mo.
 Lang, H. R. & Co., Fort Wayne, Ind.
 Lombard, A. P. & Co., 99 Bristol, Boston, Mass.
 McCune, Alex., 233 N 23d, Phila., Pa.
 Meislahn, C. F. & Co., 19 Clay, Baltimore, Md.
 Newcomb, F. J. Mfg. Co., 44 W 13th, New York

Parker, Wm., 324 7th av, New York
 Plastic Relief Mfg. Co., 298 N Halsted, Chicago, Ill.

Raubold & Lambin, 19 N Ann, Chicago, Ill.
 Rockford Ornament Co., Rockford, Ill.
 Root, C. R., 104 Asylum, Hartford, Conn.
 Rudolph, Oscar (Inc.), 32 E 22d, New York
 Schneider, F. H., 120 Burnet, Syracuse, N. Y.
 Schuelke, Wm. Organ Co., Milwaukee, Wis.
SEIFERT, FRANK A. PLASTIC RELIEF Co., 2621-2627 Dayton, St. Louis, Mo. (See adv. index, end of book)

Walter, G. E. Co., 157 E 44th, New York
 White, Potter & Paige Mfg. Co., 415 Willoughby av, Brooklyn, N. Y.
 White & Maslen, 627 12th, Detroit, Mich.

Ornaments (Fence)

(See Rosettes & Pickets, Iron; also Rosettes & Pickets, Steel)

*Ornaments (Gable)

BERGER MFG. CO., THE. Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)

Ornaments (Harness)

Duranold Mfg. Co. (Rings, Rosettes, etc.), Newark, N. J.

Ornaments (Plastic)

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)
 Bailey Co., 224 21st, Detroit, Mich.
 Berger, H. Sons, 101 4th av, New York
 Betkouskie, Martin F., Los Angeles, Cal.
 Buehner, A. & Co., 220 N 2d, St. Louis, Mo.
DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
 DePlanque, R. & Son, 341 N 4th, Phila., Pa.
 Dinl, Geo. L., 497 Atlantic av, Brooklyn, N. Y.
 Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.
 Farley, Wm. E. & Bro., 3035 Market, Phila., Pa.
 Forman Bros., 645 Gates av, Brooklyn, N. Y.
 Hanisch, Ad (Stucco), Syracuse, N. Y.
 Heath, Thos., 42 N 11th, Phila., Pa.
 Klee, Thomson Co., 327 E 40th, New York
 Knoche & Steves, 2101 Reading rd., Cincinnati, O.
 Lang, H. R. & Co., Fort Wayne, Ind.
 Marks, W. A. Plaster Ornamental Mfg. Co., 726 W 5th, Cincinnati, O.
 Plastic Relief Mfg. Co., 298 N Halsted, Chicago, Ill.
 Prior, Jas. V., 288 Wash'n, Newark, N. J.
 Root, C. R., 104 Asylum, Hartford, Conn.
 Schneider, F. H., 120 Burnet, Syracuse, N. Y.
SEIFERT, FRANK A. PLASTIC RELIEF CO., 2621-2627 Dayton, St. Louis, Mo. (See adv. index, end of book)
 Trapp, John B., Peoria, Ill.
 Walter, G. E. Co., 157 E 44th, New York
 Wilhelm, Florintine Co., Madisonville, O.

*Ornaments (Pressed Steel)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Ornaments (Sheet Metal)

Broschart & Braum, 601 W 130th
EDWARDS MFG. CO. (Metal Boats), 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)
 Frand & Co., Camden, N. J.
FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)
 Gara, McGinley & Co., 23 S 17th, Phila., Pa.
 Gerock Bros. Mfg. Co., 1252 Manchester av, St. Louis, Mo.
 Hergert, Theo. E. (For Cornices, etc.), 422 E 53d, New York
JONES, THOS. W. (For Towers, etc.), 22 Burling sl, New York. (See adv. index, end of book)
 Kelley, Wm. J., 448 Adelphi, Brooklyn, N. Y.
 Michigan Hdw. Mfg. Co., Grand Rapids, Mich.
 Miller & Doing, 83 Wash'n, Brooklyn, N. Y.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
MULLINS, W. H. CO., 341 Franklin, Salem, O. (See adv. index, end of book)
 Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
PRUDEN, C. D. CO., Warner, Bayard & Dock, Baltimore, Md. (See adv. index, end of book)
 Rulofson Metal Window Works, San Francisco, Cal.
 St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.
 Thoresen, Wm., 419 W. North, Chicago, Ill.
 Thorn, J. S. Co., 20th & Allegheny av, Phila., Pa.
 Twince Stamping Works, Rome, N. Y.

*Ornaments (Steel)

BRAUN, J. G. (for Ornamental Iron Work), 322 S Paulina, Chicago, Ill., & 537 W 35th, New York. (See adv. index, end of book)

Ornaments (Transfer)

Meyercord Co. (Inc.) (Decalcomania), Chamber of Commerce, Chicago, Ill.
 National Decalcomania Co., 250 N. 60th, Phila., Pa.
 Palm Bros. & Co., 316 Main, Cincinnati, O.
 Palm-Fechteler & Co., 67 5th av., New York
 U. S. Decalcomania Co., 152 Lake, Chicago, Ill.

Ornaments (Wood)

Curtis Bros. & Co. (For the Trade Only), Clinton, Iowa
 Curtis & Bartlett Co. (For the Trade Only), Lincoln, Neb.
 Foster-Munger Co. (For the Trade Only), W 20th & S Sagamon, Chicago
 Gauger, Jno. A. & Co. (For the Trade Only), W 22d & Laflin, Chicago
 Gould Mfg. Co. (For the Trade Only), Oshkosh, Wis.
 Grand Rapids Carved Moulding Co., Grand Rapids, Mich.
 Harris & Cole Bros. (For the Trade Only), Cedar Falls, Ia., & Columbia, Tenn.
 Hyde-Murphy Co., Ridgway, Pa.
 McMillen, R. Co. (For the Trade Only), Oshkosh, Wis.
 Morgan Co. (For the Trade Only), Oshkosh, Wis. & W 22d & S Union, Chicago
 New York Carved Moulding Co., 139th & Rider av, New York
 Ohio Scroll & Lbr. Co., Covington, Ky.
 Paine Lumber Co. (For the Trade Only), Oshkosh, Wis.
 Palmer, Fuller & Co. (For the Trade Only), 2244 Lumber, Chicago, Ill.
 Peirce, W. E. & Co., Milford, N. H.
 Roberts, E. L. & Co. (For the Trade Only), 22d & Union pl, Chicago, Ill.
 Rowe, Henry Mfg. Co. (Rosettes, Carvings, etc.), Newaygo, Mich.
 Spanjer Bros., Newark, N. J.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Waddell Mfg. Co. (Rosettes, Carved, Grilles, etc.), Grand Rapids, Mich.

Ornaments & Figures (Iron)

(See Fountains, Vases, Etc.)

*Oscillographs

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Outriggers (Arc Lamp)

Cutter, Geo. Co. ("Cutter's" Pulleyed, etc.), South Bend, Ind.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Oven Builders (Brick & Portable)

Albrecht, Francis J. (Brick, Inside Heating, also Continuous), 1146 Penn av., Pittsburgh, Pa.
 American Oven & Machine Co. ("Peel," Brick), 40 Dearborn, Chicago, Ill.
 Bailey Oven Co. (Brick), Mansfield, O.
 Barber & Turner (Brick & Portable), 429 N Orianna, Phila., Pa.
 Blendinger, Fred'k A. (Brick), 824 O'Hara, Allegheny, Pa.
BLODGETT, G. S. CO. (Portable), Burlington, Vt. (See adv. index, end of book)
 Bullkop Oven Co. (Brick), New York city
 Canfield, A. L. ("Monarch," Asbestos Lined, Portable), 97 Beekman, New York
 Carroll, B. F. (Brick), Joliet, Ill.
 Clad, V. & Sons, Inc. (Portable), 117 S 11th, Phila., Pa.
 Duhrkop Oven Co. (Brick), Park Row bldg., New York
 Dumbleton, Thos., & Son (Brick), 619 Carlton av., Brooklyn, N. Y.
 Evans & Eichner ("Willey" Portable), 85 E. Lake, Chicago, Ill.
 Fish, A. J. & Co. ("Vales" Rotary Brick), 39 S Franklin, Chicago, Ill.

Hall, S. L. & Co. (Brick), 156 E 18th, Chicago, Ill.
 Hilcher, Chas. G. (Brick), 3839 State, Chicago, Ill.
 Hilcher, Edw. P. (Brick), 192 Larrabee, Chicago, Ill.
 Hubbard Portable Oven Co. (Portable), 114 Michigan, Chicago, & 260 W B'way, New York
 Hydraulic Co. ("Stewart" Revolving Gas), 8 Lum, Newark, N. J.
 Iis, John G. & Co., San Francisco, Cal.
 Indiana Cracker Machine Co. (Portable), Chicago, Ill.
 King, B. F., 342 E. 146th, New York
 Kosicky, W. (Brick), Detroit, Mich.
 McDowell Oven Co. (Portable), 234 State, Boston, Mass.
 Middleby, Jos. (Portable), 204 State, Detroit, Mich.
 Middleby Oven Mfg. Co. (Portable), 60 W Van Buren, Chicago, Ill.
 Moon, Geo. R. (Portable), 561 Short av, Columbus, O.
 Pearson, Harry (Portable), 60 Causway, Boston, Mass.
 Petersen Oven Co. (Brick), 49 Wabash av., Reid Portable Oven Co. (Portable), 14 Palace Arcade, Buffalo, N. Y.
 Roberts Portable Oven Co. (Reel & Rotary), 77 E. Erie, Chicago, Ill.
 Roth, McMahon Co. (Portable), Evanston, Chicago, Ill.
 Schaller, Albert (Brick), Rochester, N. Y.
 Schaller Patent Bake Oven Co. (Brick), Pike bldg, Cincinnati, O.
 Schubert, Chas. A. (Brick), 501 E. 75th, New York
 Simpkins, Alvin T. (Brick & Portable), 2731 Bacon, St. Louis, Mo.
 Smith, Geo. F. (Reel & Rotary), 515 N. Wolfe, Baltimore, Md.
 Varney Heating & Mfg. Co. ("Revolving Reel"), Leavenworth, Kansas
 Vroom Bros., 59 Exchange, Lowell, Mass.
 Watkins, James Y. & Son, 16 Catharine, New York
 Weiner & Meufs (Portable), Cleveland, O.
WERNER & PFLEDERER (Steam Pipe Draw Plates), Saginaw, Mich. (See adv. index, end of book)
 Western Middleby Oven Co. (Portable), San Francisco, Cal.

Ovens (Bread)

BLODGETT, G. S., CO., Burlington, Vt. (See adv. index, end of book)
 Silcan Mfg. Co. ("Sloan-Oven" for Biscuits, Cakes, etc.), Kansas City, Mo.
 Troy Polished Steel Roaster Co. ("Troy" for Baking or Roasting), Troy, O.

Ovens (Core)

Best, W. N., American Caloric Co., 11 B'way, New York
BLODGETT, G. S. CO. (Portable, Galvanized Iron), Burlington, Vt. (See adv. index, end of book)
 Brass Founders' Supply Co. (For Brass Fdrs.), Byram & Co., Detroit, Mich.
 Calumet Engineering Works, Harvey, Ill.
 Cullen-Atkinson Co. (Revolving), Hartford, Conn.
 Dodge Mfg. Co. (Square & Rotary), Mishawaka, Ind.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 McCormack, J. S. Co., Pittsburgh, Pa.
 Millett Core Oven Co., Springfield, Mass.
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)
 Paxson, J. W. Co., 1021 N. Del. av., Phila., Pa.
 Roberts Portable Oven Co. ("Black Diamond"), 73 E. Erie, Chicago, Ill.
SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd., N. W., Cleveland, O. (See adv. index, end of book)
WHITING FOUNDRY & EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Ovens (Core Baking)

(See Ovens, Core)

Ovens (Electric)

Despatch Mfg. Co., Minneapolis, Minn.
 International Instrument Co., Cambridge, Mass.

Ovens (Enameling)

American Enamel Co., Providence, R. I.
BLODGETT, G. S., CO. (Portable Galvanized Iron), Burlington, Vt. (See adv. index end of book)
 Cullen & Atkinson Co. (Inc.) (Gas or Gasoline), Hartford, Conn.
 Evans & Eichner ("Enterprise"), 85 E. Lake, Chicago, Ill.
KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)
 Steiner, Emil E. (Heated by Gas), Newark, N. J.
 Turner Brass Works (Galvanized Iron, Portable), Sycamore, Ill.
 U. S. Gas Furnace Co. (Drying or Baking), 159 Aborn, Providence, R. I.
 Van Dorn Iron Works Co. (Japan), Cleveland, O.
 Wells, Fred K., Co., 18 Warren, New York
 Westmacott Gas Furnace Co. (Drying or Baking), 159 Orange, Providence, R. I.

Ovens (Japanning or Baking)

BLODGETT, G. S., CO. (Portable, Galvanized Iron), Burlington, Vt. (See adv. index, end of book)
 Honhorst, Joseph, Co., Cincinnati, O.
KOVEN, L. O. & BRO., 50 Cliff, New York (See adv. index, end of book)
 Oven Equipment & Mfg. Co. (Sectional Ovens & Gas Burners), Stamford, Conn.
 Steiner, Emil E. (Heated by Gas), Newark, N. J.
 Turner Brass Works, Sycamore, Ill.
 U. S. Gas Furnace Co., 159 Aborn, Providence, R. I.
VAN DORN IRON WORKS CO. (Japanning), 2685 N 79th, Cleveland, O. (See adv. index, end of book)
 Wells, Fred K. Co., 18 Warren, New York

Overhead Tracking

(See Trolley Tracks)

Oxide of Copper

Harshaw, Fuller & Goodwin Co., Cleveland, Ohio
 Wiarda, Jno. C., & Co., Brooklyn, N. Y.

Oxide of Iron

AMERICAN STEEL & WIRE CO., Commercial National Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Harshaw, Fuller & Goodwin Co., Cleveland, Ohio
LEAVITT, C. W. & CO., 30 Church, New York (See adv. index, end of book)
 Smith, J. Lee, & Co., 59 Frankfort, New York
 Western Oxide & Specialty Co. ("Western" for Gas Purification), 21st & Jefferson, Chicago, Ill.
 Wetherill, S. P., Co. (Pure), 925 Chestnut, Phila., Pa.
 Wiarda, Jno. C., & Co., Brooklyn, N. Y.

Oxide of Lead

Davis Lead Co., Park Bldg., Pittsburg, Pa.
DOGGETT, STANLEY, 101 Beekman, New York (See adv. index, end of book)
 Harrison Bros. & Co., 35th & Gray's Ferry rd., Philadelphia, Pa.
 National Lead Co. (For Glass, Rubber, Color & Varnish Makers, etc.), 100 William, New York

Oxide of Manganese

Harshaw, Fuller & Goodwin Co., Cleveland, Ohio
 Metallic Alloys Co., 32 Cortlandt, New York
 Riebe, Edgar C., & Co. ("Thuringian" Varnish & Oil Dryer), 97 Warren, New York
 Western Foundry Supply Co., 30 Church, New York

Oxide of Zinc

DOGGETT, STANLEY, 101 Beekman, New York (See adv. index, end of book)
 Gabriel & Schall ("Anchor Brand"), 205 Pearl, New York
 Hanna & Andrus Mfg. Co., Chicago, Ill.
 Harshaw, Fuller & Goodwin Co., Cleveland, Ohio
 Mallinckrodt Chemical Works, St. Louis, Mo.
 Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill. Works, Mineral Point, Wis.
 New Jersey Zinc Co., 55 Wall, New York
 Siemon & Elting, 104 Front, New York
 Smith, J. Lee, & Co., 59 Frankfort, New York
 Wetherill, S. P., Co., 925 Chestnut, Phila., Pa.
 Wiarda, Jno. C., & Co., Brooklyn, N. Y.

Oxide (Tin)

Harshaw, Fuller & Goodwin Co., Cleveland, Ohio
 Johnston & Jennings Co., Cleveland, O.

Oxides (Green Chrome)

Siegle, G., Co. (Heat, Alkali & Acid Proof), 79 Duane, New York

Oxymur

Cochrane Chemical Co., Boston, Mass.

Packers (Cement)

(See Packing Machines in Machinery)

Packers (Flour, Bran & Feed)

(See Packing Machines; also Bagging Machines)

Packers (Oil Well)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Dresser, S. R., Bradford, Pa.
 McElwaine Co., Bradford, Pa.
 Masseth Packer & Machine Works ("Masseth's"), Butler, Pa.
 Morgan & Wright (Inc.), (Rubber), Detroit, Mich.
PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Packers (Shingle)

DeLoach Mill Mfg. Co., Bridgeport, Ala.
 Diamond Iron Works, Minneapolis, Minn.
 Lane Mfg. Co., Montpelier, Vt.
 Mitts & Merrill, Saginaw, Mich.
 Trevor Mfg. Co., Lockport, N. Y.

Packing (Asbestos)

AMERICAN-GOETZE GASKET & Packing Co. ("Goetzert"), 532 E 149th, New York. (See adv. index, end of book)
 Boonton Rubber Co. (Hard Rubber & Asbestos Rings), Boonton, N. J.
 Clinton Mfg. Co., 83 Grand av. Brooklyn, N. Y.
 Crandall Packing Co., Palmyra, N. Y.
 Ehret Magnesia Mfg. Co., Phila., Pa.
 Federal Asbestos Mfg. Co. (Plain Braided, Wound Cloth & Sheet), Alliance, O.
 Johns, H. W.-Manville Co. ("Kearsarge," "Asbestos Metallic Sheet"), 100 William, New York
 Mercer Rubber Co. ("Sayen-Reed"), Hamilton Square, N. J.
 New York Asbestos Mfg. Co., 80 John, New York
STRONG MACHINERY & SUPPLY CO. ("Strong's" Tisafine & Grapho Asbestos Valve & Piston & Sheet), 48 Franklin, New York. (See adv. index, end of book)
 United States Asbestos Co. ("Usaco," "Carboline"), Manheim, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)
 Wing, J. T. & Co., 19 Woodward av, Detroit, Mich.

Packing Box Mfrs.**CALIFORNIA.**

SAN FRANCISCO—California Pine Box & Lumber Co., Rialto bldg
 Columbus Box Factory, Beach nr Mason
 Mercantile Box Co.
 National Box Factory
 Pacific Box Factory
 Standard Box Co.

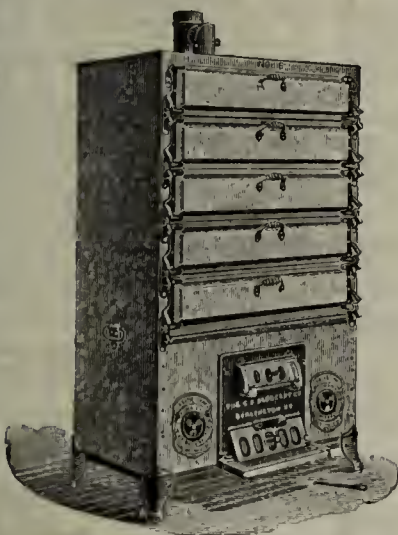
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DENVER—Denver Crate & Box Co.
 Hallack & Howard Lumber Co.

CONNECTICUT.

BRIDGEPORT—Hoffman, H. C. & Co.
HARTFORD—Rockwell, John W.
NEW HAVEN—Brett, Edward P.
 Hubbell & Merwin Co.
 McLean, Andrew
 Sperry & Amos Co.

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Chicago Packing Box Co., of Illinois, 350 N Sangamon
Goodwillie Bros. (also Wausau, Wis.), 171 Lasalle
Goodwillie, D. M. Co., W 22d & Centre av
Illinois Packing Case Co., 723 Carroll av
Maxwell Bros. Co., Loomis c W 21st
Paepcke-Leicht Lumber Co., W Chicago av & N Sangamon
Rathborne, Hair & Rldgway Co., Union & Lumber
Soper Box Co., 838 Loomis, c W 22d.
Tegtmeyer, Charles W., 759 S Canal
SPRINGFIELD—Abbott Bros.

INDIANA.INDIANAPOLIS—Ballweg & Co.
Dietz, Fred Co.**IOWA.**

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CLINTON—Smith, F. & Son
KEOKUK—Carter, S. C. & S. Co.

KENTUCKY.

COVINGTON—Acme Box & Shook Co.
LOUISVILLE—Bell & Coggeshall Co.
Mengel Box Co.
Tyler Box Co.
MAYFIELD—Mayfield Planing Co.

LOUISIANA.

NEW ORLEANS—Alcus, S. T. & Co. (Ltd.)
Bates-Hussy Box Co. (Ltd.)
Central Mfg. & Lumber Co.
Fleurichant, Emile L.
Hasam Box & Planing Mill
Pelican Shingle Co.

MAINE.

AUBURN—Conant, F. R. & Co.
Hutchins, H. Wesley Co.
BANGOR—Walker, James Co.
BIDDEFORD—Deering-Proctor Box Co.
BREWSTER—Smith Planing Mill Co.
BRIGHTON—Brighton Mfg. Co.
CHERRYFIELD—Wilson, E. K. (Est. of)
GARDINER—Glidden Bros. Box Co.
PORTLAND—Brackett, J. L. & Co.

MARYLAND.

BALTIMORE—Becker Bro. & Son, Lexington
Canton Box Co., 2515 Boston & Fkd.
Dorsey, William Co., Highland av. & Phila. rd.
Dreyer, H. D. & Co., Concord & Lombard
Duker, J. H. Box Co., Aliceanna, cor.
Hortenbaugh, Charles, 636 W Pratt Eden
Louis, Henry D.
Radecke, H. F. & Sons, 177 W Cross
Rittler Box Co. (Inc.), 621 S Caroline
Schmuck, Fressman & Co., 1816 Lancaster
Thiemeyer, J. H. Co. (Inc.), 901 S Caroline
Wheatfield, Jacob, 517 W German
HURLOCK—Thompson, G. A., & Son.

MASSACHUSETTS.

ACUSHNET—Acushnet Saw Mill Co.
AMHERST—Angus, Nelson E.
ANDOVER—Hardy & Cole
BEVERLY—Copp, A. W. & Co.
Frost Box Co.
BOSTON—Booth, J. R., 88 Broad
Le Baron, S. T., 135 Border, E. B.
Manwell, F. P. & Co., 190 A
Snow, Abbott L., 406 Border, E. B.
BROCKTON—Bonney, E. L.
Woodbridge, F. L.
CAMBRIDGE—Page, Geo. G. Box Co.
CHELSEA—Atwood & McManus
Parsons Mfg. Co.
DANVERS—Derry, Fred J.
ENFIELD—Woods, C. D.
FALL RIVER—Lunan, E. S. & Co.
Varney, Isaac & Sons Co.
FITCHBURG—Cook, Ornan S.
Priest, C. A. Lumber Co.
FOXBORO—Pond, Virgil S. & Co.
GEORGETOWN—Hardy, W. C.
GLOUCESTER—Merchant Box & Cooperage Co.
Perkins, Geo. & Son

GREENFIELD—New England Box Co.
HAVERHILL—Haverhill Box Co.
Hayes, O. H. Corporation
Island Park Box Co.
Owens, John & Co.
Tapley, I. W.

HOLYOKE—Merrick Lumber Co.
HUDSON—Tripp, N. G.
LAWRENCE—Pingree, D. W. Co.
LOWELL—Allen, Otis & Son
Cady, Geo. L. & Sons
Cheney, Frank P.
Cummings, F. G.
Davis & Sargent Lumber Co.
Greenfield Box Co.
Thompson, James A.
MALDEN—Vaughan, S. E.
MEDWAY—Medway Box Co.
MIDDLEBORO—Clark & Cole Co.
NATICK—Natick Box Co.
NORTH ADAMS—Dibble, S. B. Lumber Co.
NORTON—Sweet, A. H. & Son
PETERSHAM—Carter, J. A.
READING—Symonds, O. P. & Sons
ROCKLAND—Studley, Gideon
SALEM—Irving, W. A.
SOUTHBIDGE—Clemence, J. M. & L. D.
Ide Lumber Co.
SPRINGFIELD—West, F. M. Box Co.
WEST BOYLSTON—Lowe, Harry E.
WHITMAN—Slack, Chas. P.
WILLIAMSBURG—Bradford, G. M.
WORCESTER—Baker Box Co.
Williams & Bridges Co.

MICHIGAN.

BAY CITY—Bay City Box & Lumber Co.
Bindner, J. F. Box Co.
Bradley, Miller & Co.
Handy Bros., Station A.
Vance, E. J. Box Co.
DETROIT—Backus, A., Jr., & Sons
Beyster, John
Grigg, Hanna Co.
Restrick, Chas. W. Lumber Co.
Weber, J. F. & Co.
GRAND RAPIDS—Dupree, John & Co.
Fuller & Rice Lumber & Mfg. Co. (Inc.)
MARQUETTE—Read, F. W. & Co.
MENOMINEE—Crawford Mfg. Co.
Fisher & Hutchenson Co.
Peninsular Box & Lumber Co.
SAGINAW—Mershon, Eddy, Parker Co.

MINNESOTA.

DULUTH—Duluth Box Mfg. Co.
Petruschke Box & Lumber Co.
Wallinder, E. G.
MINNEAPOLIS—Bolton Lath & Shingle Machinery Co.
Coffin's Box & Lumber Co.
Smith, C. A. Lumber Co.
ST. PAUL—Minnesota Box Co.
Osgood & Blodgett Mfg. Co.
Villaume Box & Lumber Co.

MISSOURI.

KANSAS CITY—Chapman & Dewey Lumber Co.
Forrester-Nace Box Co.
Inman Box Co.
United Box Mfg. Co.
ST. LOUIS—Alt Box Mfg. Co., 305 N Main
Columbia Box Co., 19th & N Market
Excelsior Box & Mfg. Co., 2805 N 12th
Fehlig Bros. Box Mfg. Co., 1909 Wash'n
Gaus, Henry & Sons Mfg. Co., 2100 N Main
Goessling, Wm. F. Box Co., Blair av & Mul
Heibel, P. & Sons Co., 1505 S 2d lanphy
Loy-Lange Box & Lumber Co., 2106 S 3rd
Mengel Box Co., Folsom av & Lawrence
Mound City Box Factory, 1060 Old Manchester rd
Olcott, Chas. A. Planing Mill Co., 3300 N B'way
Phoenix Planing Mill Co., 12th & Spruce
Poorman, H. B. Box Mfg. Co., 10th, cor. Howard
Sheridan & Sons, James, 1414 Sarsfield pl.
St. Louis Box Factory, 721 S 2d
Woods & Down Box Co., Mullapay & 12th

NEVADA.

RENO—Nevada Planing Mill Co.

NEW HAMPSHIRE.

EAST JAFFREY—Stalton, C. L.
KEENE—Fowler, H. J.
Norwood, Chas. M. & Son
Reed, J. Mason (Est. of)
LISBON—Parker & Young Co.

MANCHESTER—Fellows & Son
Hodge, Jeremiah
Smith Box & Lumber Co.
West Side Lumber Co.
MILFORD—Pelree, W. E. & Co.
NASHUA—American Box & Lumber Co.
STATE LINE—Lamon, Walter S.

NEW JERSEY.

CAMDEN—Coles, C. B. & Sons Co.
JERSEY CITY—Dodge & Bliss Co.
Vanderbeek & Sons
NEWARK—Doolittle, Henry N.
Neary, J. J. Box & Lumber Co.
Ripley, David & Sons Lumber & Timber Co.
Zipfel, John, Jr.
TRENTON—Armstrong, Hugh (Est. of)

NEW YORK.

ALBANY—Draper, Henry W.
Romeyn, T. F. Co.
Valentine, W. T. & Son
BUFFALO—Buffalo Box Factory, 365 Babcock
Elias, G. & Bro., 665 Elk
Glasstone Co., 110 Senca
MacLean Box Factory, Louisiana & San dusky
Montgomery Bros. & Co., Court c Wilkeson
Nagara Box Co., 826 S Division
Zeis, M. & Sons, 200 Cherry

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—Eckert, John A., 54 Hopkins
Goodman & Gavin, 351 Metropolitan av
Haws, William, 154 9th av
Reeves, George H., 290 Greene
Smith, E. C., 420 Oakland

Boroughs of Manhattan & Bronx.

NEW YORK—Abbey, Frank R., 634 1st av.
Appell, Aaron, 227 Mercer
Armstrong, Eliza J., 87 White
Bieg & Mayer, 6 Gold
Burdick, I. N., 138 Wooster
Buse, Fred'k, 1110 1st av
Carroll Box & Lumber Co., 629 E 18th
Doernberg & Goodman, 737 E 9th
Dunbar Box & Lumber Co., 282 11th av
Dunbar, John, 124 Worth
Dunning Varney Co., 99 Warren
Eckert, John A., 314 Pearl
Epstein & Vollweiler, 814 5th
Fagan, James & Son, 204 W Houston
Finkelstein Packing Box Co., 118 Bleecker
Fitzgerald, James H., 8 W 13th
Gerow, Emma, 251 W 27th
Gilmour & Korn, 23 Bond
Gottlieb, M. & Sons, 20 Clarke
Green, A. H. Co., 97 Warren
Greenfield Box Co., 21 Gold
Gunshor, G., 37 Thompson
Hill, Frank J., 5 Beekman
Kidney, George, 7 Walker
Lauterstein, Sarah, 222 Wooster
Lavelle, Peter J., 224 Mulberry
Manhattan Box Co., 737 E 9th
Manhattan Packing Case Co., 133 Crosby
Merrall, F. R. & Co., 505 E 18th
Mitchell & Moffett, 54 Crosby
Moore C., 3 Wooster
Neely, John & Son, 741 E 9th
New England Box Co., 90 W B'way
O'Brien & Mosher, 223 Greene
Patterson, Thos. G., 637 W 55th
Prato, Paul, Jr., 178 Wooster
Qua, James, 357 W. B'way
Riley, Mary E., 384 Pearl
Rosenthal & Cohen, 53 Great Jones
Ross, Benj. F., 8 Bond
Ryan, J. M., 541 W. Bway.
Ryan, Martin, 132 Mercer
Ryan, P., 109 Reade
Schutz Bros., 71 W B'way
South Side Mfg. Co., 114 Warren
Todd, Thomas, 315 E 22d

(End of New York City)

ROCHESTER—Newberry, C. K.
Newberry, C. K.
Rochester Box & Lumber Co.
SYRACUSE—Lyons, John H.
Merriam Mfg. Co.
Piquet Box & Lumber Co

OHIO.

CINCINNATI—Aman & Sandman, 21 W Mc-Micken av
Beck Walter G., Western av., C. H. & D. Ry.

Conklin, E. A. Box Co., 2001 Reading rd.
 Kenker, Fred, Sr., 3904 North Bend rd.
 McWilliams & Schulte, McLean av & Richmond
 Queen City Box Co., Flint & Wade
 Tyler, H. A. & Co., 1041 Evans
 Unnewehr, Frank & Co., 7th & Culvert
 Wildberg Box Co., 9th & Eggleston av
CLEVELAND—American Box Co., 1932 W
 3d, N W
 Cleveland Box Co., cor. Stone's Levee &
 Ohio sts
 Dunn, James Box Co., 1949 W 3d, S W
 Forest City Box Co., 315 Central Av, S W
 Hahn, J. N. Co., Cuyahoga c W 4th, S W
 National Box Co., 257 Jefferson av
 Saginaw Bay Box Co., 1897 W 3d, S W
 Valley Box Co., W 4th, nr. Stone's Levee,
 S W
 Wiggins, Fred B., 1826 Columbus rd, N W
COLUMBUS—Fletcher, B. C.
 Rood Lumber Co.
DAYTON—Gondert & Lienesch
TOLEDO—Phoenix Box Factory
 Western Manufacturing Co.
 Wilson, George & Sons Co.

OREGON.

PORTLAND—Multnomah Lumber & Box Co.
 Standard Box & Lumber Co.

PENNSYLVANIA.

ALLEGHENY—Duquesne Box & Lumber Co.,
 Market c Bayard
 M'Clure, Alexander Box Co., 993 Beaver av
CHESTER—Hamilton, James M.
PHILADELPHIA—Atkinson, Margaret D., 4314
 Josephine, F'k'd

Carnwarth, Bell & Co., 613 Cherry
 Carver, E. S. & Son, 2663 Cadwaader
 Datz, Chas. F., 452 N 5th
 Douglass, Edwin D., 437 N 5th
 Foley, John J., 1938 Morris
 Galbraith, John (Est. of), 619 Commerce
 Gould, Wm. G., 2924 Rorer
 Jones, Samuel & Sons, 2230 Hamilton
 Kees, Wm. J., 113 N Orianna
 Keystone Box Mfg. Co., 223 Wood
 Kugler, Geo. W. & Sons, 918 N Front
 Lamont, Andrew, 1931 S Chadwick
 McCauley, J. & W., 636 Filbert
 Martin, John, 1432 N 6th
 Meisle, G. & Bro., 217 New
 Mench, S. B. & Co., 2031 E Fletcher
 Meyer, William, 206 Quarry
 Nichols, Clayton W., 918 Beach
 Orr, Wm. L., 1613 S 19th
 Pearson, Jos. T., 1825 E Boston
 Philadelphia Packing Box Co., 2634 N
 American
 Provident Lumber Co., Water c Dickinson
 Quaker City Packing Box Co., 701 E Girard av

Rice, T. B. & Sons Co., Mifflin st wharf
 Ritner, F. B. & Co., 2712 N 2d
 Schwartz, Joseph & Sons, 915 E Montgomery av.
 Shoemaker's, J. B. Sons, Clearfield & Front
 Tait, Andrew Box Co., 1740 Ludlow
 Trean Box Co. (Inc.), Tioga & Memphis
 Wilson, Andrew, Wilde c Kram's av, M'y'k
PITTSBURG—Anchor Box Factory, 378
 Woodville av.

Keystone Box Co., 19 Miller
 Kress, F. J. Box Co., 2020 Liberty av
READING—Deysher, Abner S.

RHODE ISLAND.

PASCOAG—Lapham, Myron D.
PAWTUCKET—Polsey, J. N. & Co.
PROVIDENCE—Presbrey, A. A. & Son Co.
 Providence Box & Lumber Co.
 Talbot Bros. Co.
 Sweet, A. H. & Sons

VERMONT.

BENNINGTON—Bingham, J. B.
 Evans, L. N. & Co.
BURLINGTON—Crane, W. & D. G.
 Hickok, Horatio Co.
 Robinson-Edwards Lumber Co.
MORETOWN—Ward, Hiram O.
RICHMOND—Richmond Lumber Co.
STAMFORD—Tudor, John

WASHINGTON.

SEATTLE—Bennett, H. L.
 Queen City Lumber Co.
 Stetson & Post Mill Co.
 Warren, Alfred
SPOKANE—Musser, Wm., Lumber & Mfg. Co.
TACOMA—Pacific Box Co.

WISCONSIN.

ASHLAND—Lake Superior Lumber & Box Co.
CATO—Killen, W. N.
EAU CLAIRE—Linderman Box & Veneer Co.
FOND DU LAC—Bates, C. E.
GRAND RAPIDS—Badger Box & Lumber Co.
GREEN BAY—Green Bay Box & Lumber Co.
 Murphy Box Co.
HAZELHURST—Yawkey-Bissell Lumber Co.
JANESVILLE—Magee Bros.
MANITOWOC—Drost H. Box Mfg. Co.
 Schnorr Bros. Co.
MARINETTE—Marinette & Menominee Box
 Marinette & Menominee Box Co. Co.
MILWAUKEE—Beck, C. A. & Son, Sixth &
 Hays, George, 228 5th East
 Kieckhefer Box Co., Canal & 16th St. via
 Mueller & Son Co., 445 Canal duct
 National Box Co., 534 American av
OCONTO—Oconto Company
SHEBOYGAN—Sheboygan Binding & Box Co.
WASHBURN—Kenfield & Lamoureux
WATERLOO—Neupert & Budwig
WAUKESHA—Waukesha Mfg. Co.
WAUSAU—Goodwillie Bros.
 Wausau Box & Lumber Co.
 Wisconsin Box Co.

***Packing (Cement)**

AMERICAN-GOETZE GASKET &
 Packing Co. ("Goetze Cement," Fire &
 Water, for All Purposes), 532 E 149th,
 New York. (See adv. index, end of book)

SMOOTH-ON MFG. CO. ("Smooth-
 On"), 572 Commnnpaw av, Jersey City,
 N. J. (See adv. index, end of book)

Packing (Flax)

Clinton Mfg. Co. ("Clinton" Square Flax), 83
 Grand av, Brooklyn, N. Y.
 Crandall Packing Co., Palmyra, N. Y.
 Goodsell Packing Co., 23 S Canal, Chicago, Ill.
SAYEN, OSGOOD, Arcade bldg., Phila., Pa.
 (See adv. index, end of book)
STRONG MACHINERY & SUPPLY CO.
 ("Strong's Best" Rivalate), 48 Franklin,
 New York. (See adv. index, end of book)
TUCKER & CARTER ROPE CO., 76
 South & 167 Maiden la., New York.
 (See adv. index, end of book)
 Tupper, F. W. ("Tupper" Square), 49
 Vesey, New York
 Wing, J. T. & Co., 19 Woodward av, Detroit,
 Mich.

Packing (Hard Fibre)

(See Fibre, Hard)

Packing (Hemp)

Hooven & Allison Co., Xenia, O.
 Jacobs Cordage Co., Cincinnati, O.
 Overman & Schrader Cordage Co., Covington,
 Ky.
SAYEN, OSGOOD, Arcade bldg., Phila., Pa.
 (See adv. index, end of book)
TUCKER & CARTER ROPE CO. (Twisted),
 76 South & 167 Maiden la., New York.
 (See adv. index, end of book)

Packing (Hydraulic)

Chicago Rawhide Mfg. Co. (Rawhide), 75 E
 Ohio, Chicago, Ill.
 Clinton Mfg. Co. (Waterproof), 83 Grand av,
 Brooklyn, N. Y.
 Metallic Packing & Mfg. Co., Elyria, O.
 Morgan & Wright (Inc.) ("Cadillac" White Seal
 Core, etc), Detroit, Mich.
 National Rawhide & Belting Co. (Rawhide).
 Niles, Mich.
QURIDE CO. ("Quride"), Syracuse, N. Y.
 (See adv. index, end of book)
SAYEN, OSGOOD, Arcade bldg., Phila., Pa.
 (See adv. index, end of book)
 Schlichter Jute Cordage Co. (Jute Sail
 Wrapping, Tobacco, etc.), 20 N. Front,
 Phila., Pa.
 Steel Mill Packing Co., Detroit, Mich.
STRONG MACHINERY & SUPPLY CO.
 ("Strong's" Aquaproof), 48 Franklin, New
 York. (See adv. index, end of book)
 Walker, Chas. W. (Leather), Newark, N. J.
 Western Rawhide & Belting Co. (Rawhide).
 Milwaukee, Wis.
 Wilpaco Packing Co. ("Wilpaco"), 114 Lib-
 erty, New York
 Wing, J. T. & Co., 19 Woodward av, Detroit,
 Mich.

Packing (Jute)

American Mfg. Co., 63 Wall, New York
 Bailey, John T. & Co., c Water & Tasker,
 Phila., Pa.
 Columbian Cordage Co., Auburn, N. Y.
 Jacobs Cordage Co. (Hemp), Harriet & Budd,
 Cincinnati, O.
 Overman & Schrader Cordage Co., Covington,
 Ky.
 Schlichter Jute Cordage Co., 20 N. Front,
 Phila., Pa.
STRONG MACHINERY & SUPPLY CO.
 ("Strong's" Round Twist Jute, 48 Franklin,
 New York. (See adv. index, end of book)
 Winnie, F. W. & Son (Tarred & Untarred),
 237 Market, Phila., Pa.

Packing (Leather)

Auburn Auto Pump Co. ("Cup"), Auburn,
 N. Y.
 Chicago Raw Hide Mfg. Co. ("Krome"),
 75 E. Ohio, Chicago, Ill.
 Detroit Leather Specialty Co. ("Wear
 Well," Hydraulic Leather), Detroit,
 Mich.
 Graton & Knight Mfg. Co. (Flat), Worcester,
 Mass.
 Houghton, E. F. & Co. (Hydraulic "Vici"),
 240 W. Somerset, Phila., Pa.
 Providence Belting Co. ("U" & Leather Hy-
 draulic Packing), Providence, R. I.
 Robertson, Jno. & Co. (Hydraulic), 127 Water,
 Brooklyn, N. Y.
 Schieren, Chas. A., & Co., 30 Ferry, New
 York
 Standard Leather Packing Co., 141 Milk, Bos-
 ton, Mass.
STRONG MACHINERY & SUPPLY CO.
 ("Strong's"), 48 Franklin, New York. (See
 adv. index, end of book)
 Union Elevator & Machine Co. ("Union" Long
 Life, 144 Ontario, Chicago, Ill.

Packing Mfrs.

(See also Belting & Belt Appliances; also
 Cotton & Wool Waste; also Mill & Fac-
 tory Supplies; also Mineral Wool; also
 Pipe & Boiler Coverings, various kinds;
 also Steam Fitters' Supplies, Jobbers)

ALABAMA.

MOBILE—American Supply Co. ("Asco")
BOSTON BELTING CO. (Turner Sup-
 ply Co. Rep.), 23 S. Commerce. (See
 adv. index, end of book)

CALIFORNIA.

LOS ANGELES—BOSTON BELTING CO.
 (Warren & Bailey Mfg. Co., Rep.), 359 N.
 Main. (See adv. index, end of book)
SAN FRANCISCO—Barton, Squires, Byrne,
 Inc. ("Comet," Ring & Spiral,
 "Thistle," Oil Packing & "Vesu-
 vius" High Pressure "B. B.")
BOSTON BELTING CO. (Simmonds
 Mfg. Co., 12 & 14 Watoma, Rep.), (See
 adv. index, end of book)
 Bowers Rubber Works ("Dodds," "Vic-
 tor," "Sunset," "Seal Rock," "Bay
 City," "Plumbest," "Native," "Red
 Sunset," "Guardian," "Golden Gate,"
 "Seal Rock," "Reliance")
 Cook, H. N. Belting Co. ("Palmetto"
 Twist, all Asbestos)
 Gorham Rubber Co. (Rubber)

CONNECTICUT.

BRIDGEPORT—Bridgeport Metallic Pack-
 ing Co. ("Law" Metallic)
HARTFORD—Hartford Rubber Works Co.
 ("Sunrise" Rubber)
JOHNS-PRATT CO., THE ("Vul-
 cabeston" Round or Flat, for Steam,
 Water, Gas & Acids)
NIANTIC—Libby Valve & Packing Co.
 ("Libby's X. L." "U. N. O." & "Velvet")

GEORGIA.

ATLANTA—BOSTON BELTING CO.
 (Southern Belting Co., Rep.), 40 S. Forsyth.
 (See adv. index, end of book)

ILLINOIS.

AURORA—Aurora Metal Co. (Metallic)
Ustad, S. (Elastic)

CHICAGO—Adkins, Young & Allen Co. ("A. Y. A."), 50 S. Canal

Advance Packing & Supply Co. ("Mico" Square Flax Frictionless, Steam & Waterproof, "Trilo," "Bestallic," "Durability," "High Pressure") 123 Franklin

Allen, W. D. Mfg. Co. ("The Arrow"), 151 Lake

BOSTON BELTING CO. (Jewel)
Belting Co., Rep.), 175 Lake. (See adv. index, end of book)

CARPENTER, GEO. B. & CO. (Jobbers for "Peerless," "Rainbow" & "Eclipse"). 202 S. Water. (See adv. index, end of book)

Cassco Bar-Metallic Packing Co. (Metallic), 140 Dearborn

Chicago Bailey Co. ("Chief's Own," Metallic), 260 Clark

Chicago Engineer Supply Co. ("Salamanca," "Boyleston," "Graphobesto"), 112 Lake

Chicago Fire-Proof Covering Co. (Steam), 171 Randolph

Chicago Rawhide Mfg. Co. ("Mabbs" Rawhide Hydraulic), 75 E. Ohio

Continental Rubber Works (Of Erie, Pa.) ("Continental," "Tribune," "Liberty"), 204 Dearborn

CRANE CO. ("Klingerit"). 519 S. Canal. (See adv. index & branch offices, end of book)

Goodsell Packing Co. ("Metal-Boston," "Dollar," "New Century" & "Sleeve"), 23 S. Canal

High Speed (Metallic Packing Co.) (Metallic), 40 Michigan av

Jerome & Elliott ("Jerome," Metallic Valve Stem Piston Rod), 351 W. Monroe

Mabbs Hydraulic Packing Co. ("Mabbs" Rawhide), Board of Trade Bldg

Mechanical Rubber Co. (Rubber), 1230 Randolph

PENNSYLVANIA RUBBER
Works, 1241 Michigan av. (See adv. index, end of book)

Phoenix Lubricator Co. (Metallic), 7 S. Jefferson

Ryerson, Jos. T. & Son ("Regal" Metallic), 16th & Rockwell

Swain Lubricator Co. (Metallic, Piston, Valve Stem, etc.), Lake & S. Water, Chicago, Ill.

WATSON, H. F. CO. (of Erie, Pa.)
(Asbestos Braided, Piston Rod, Core Wicks, etc.), 12 S. Clinton. (See adv. index, end of book)

Willcox, E. A. Mfg. Co. (Stop Valve Steam), 260 E. 63d

Western Packing & Supply Co. ("W. P. S." & "Casco" Metallic), 253 La Salle

MILFORD—Milford Rubber Works (Rubber)

INDIANA.

GOSHEN—Western Rubber Co. (Rubber Sheet)

INDIANAPOLIS—BOSTON BELTING CO.
(Taylor Belting Co., Rep.), 247 S. Meridian. (See adv. index, end of book)

Pioneer Brass Works ("Deeds" Metallic), 424 S. Penn

NEW ALBANY—Bowman, D. F. (Railroad)

KENTUCKY.

COVINGTON—Overman & Schrader Cordage Co. (Hemp, Jute, for Water Mains, etc.)

LEXINGTON—American Metallic Packing Co. (Metallic)

LOUISVILLE—BOSTON BELTING CO.
(W. & A. C. Semple, Rep.), 311 W. Main. (See adv. index, end of book)

Cook, Lee C. Mfg. Co. (Metallic)

LOUISIANA.

NEW ORLEANS—**BOSTON BELTING CO.**
(Southern Belting Co., of New Orleans, Rep.), 718-720 Union. (See adv. index, end of book)

MAINE.

BANGOR—BOSTON BELTING CO. (M. Schwartz & Sons, Rep.) (See adv. index, end of book)

PORTLAND—Clark Flexible Metallic Packing Co., 71 Kennebec

MARYLAND.

BALTIMORE—BOSTON BELTING CO.
(Carey Machinery & Supply Co., Rep.), 119 E. Lombard. (See adv. index, end of book)

MASSACHUSETTS.

BOSTON—American Steam Packing Co. ("20th Century," "Diamond," "Smoky City" & "Favorite"), 51 High

Anderson, G. P. (Engine & Pump), 163 Oliver

Bestosking Packing & Supply Co. (Valve Stem Asbestos), 170 Summer

BOSTON BELTING CO. (Rubber,
"Forsyth" Combination, Ammonia, Plumbago, "Phoenix Red," Piston, Spiral Piston, "Noxall" Ring, etc.), 260 Devonshire. (See adv. index, end of book)

Boston Woven Hose & Rubber Co. (of Cambridgeport, Mass.), "Leader Tucks," "Red Gauntlet" & "Tiger"), 170 Summer

Chesterton, A. W. & Co. ("Metalbestos," "Lubrobestos," "Vaporited," "Rubberbestos," "Redbestos," "Metal Asbestos," "Sunset," "Pressure Proof," "Expansion," "Atlantic," "Combination," "High Pressure," "Live Steam," "Carson") 64 India

Curry Oil & Supply Co. ("Superba," "Mica Para," "Mica Asbestos"), 284 Franklin

Eagle Oil & Supply Co. ("Eagleine," Ring Square Flax, Hydraulic, etc.), 104 Broad

Federal Metallic Packing Co. ("Standard," Flexible Metallic Fibred Compound for Ammonia, Air, Steam, Truck Boxes, etc.), 137 High

Fitts, F. E. Mfg. & Supply Co., 88 Purchase

Gardner & Carey ("St. John" Cylinder), 33 Broad

Greenwood Mfg. & Supply Co. ("Greenwood," "Mica-Asbestos," Rod & Piston, etc., & "Mica Para," Sheet; "Ring & Spiral;" also Gum Core & Square Flax & Crescent Red Sheet), 147 Milk

Hart Packing Co. ("Hart" Heat Proof), 145 High

Ireson, C. L. ("Blue Blood"), 221 High

Knowlton, Geo. W. Rubber Co. ("Brossite," "Fraser," "G. W. K.," "Hub," "Knowlton," "Manilla," "Braesite"), 88 Broad

Merrill, W. B. & Co. ("Tripp" Metallic), 74 India

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JAMES BENNETT FORSYTH, MFG. AGT. & GEN'L MGR.

Boston New York Buffalo Chicago
Cincinnati St. Louis New Orleans
Cleveland Philadelphia Pittsburg

Mitchell, Geo. E. (Metallic Rod), 92 State
 Revere Rubber Co. ("Usudurlan," "Red
 Crescent," "Black Hawk," "Samson,"
 "Shawmut," "Beacon," "Giant," "Re-
 vero," "Black Cross," "Four Ace,"
 "Harlem," "Hi-Heat"), 77 Bedford
**SILVER LAKE CO. (Braided, "Miller's
 Soapstone"), 78 Chauncey. (See adv.
 index, end of book)**
 Trainor, C. W. Mfg. Co. (Asbestos
 Metallic), 89 Pearl
 Tripp Metallic Packing Co. (Metallic), 74
 Walworth Mfg. Co., 132 Federal India
WATSON, H. F. CO. (of Erie, Pa.)
 (Asbestos Braided, Piston Rod, Core
 Wicks, etc.), 79 Milk. (See adv. index,
 end of book)
CAMBRIDGE—Boston Woven Hose & Rubber
 Gould Packing Co. (Ring, etc.) Co.
WORCESTER—Vellumoid Paper Co. ("Vel-
 lumoid" Sheet in Rolls)

MICHIGAN.

DETROIT—Detroit Leather Specialty Co.
 ("Wear Well" Hydraulic Leather), 99
 Beecher
 Morgan & Wright (Inc.) ("White Seal,"
 "Economy," "Morganite," "Triangle,"
 "Nagrom," "Cadillac," & "Excellent"
 Tucks), Detroit, Mich.
 Steel Mill Packing Co. ("Safety" Plastic
 Metallic, "Hi-Steam"), 42 Larned av
 Wing, J. T. & Co. (Rubber), 19 Wood-
 ward av
MENOMINEE—Prescott Co. ("Regal,"
 Metallic)
NILES—National Leather Mfg. Co. (Raw-
 hide)

MINNESOTA.

DULUTH—Wessinger Co. (Metallic)
ST. PAUL—BOSTON BELTING CO.
 (Crane & Ordway Co., Rep.), 5th & Rosabel.
 (See adv. index, end of book)
 Northern Metallic Packing Co. (Metallic)
WINONA—Union Fibre Co. (Fibre Waste)

MISSOURI.

KANSAS CITY—BOSTON BELTING CO.
 (English Tool & Supply Co., Rep.), 1308-
 1310 Grand av. (See adv. index, end of
 book)
 Kansas City Rubber & Belting Co., 717
 Delaware
ST. LOUIS—BOSTON BELTING CO.
 (Handlan-Buck Mfg. Co., Rep.), 210 N
 3d. (See adv. index, end of book)
 Caldwell Belting & Mfg. Co. ("Monarch
 Tri-Section"), "Graples," ("Metallic")
 All Kinds, 809 W Main. (See adv. in-
 dex, end of book)
 Morrison, Robt. ("Morrison" Self-Lubricat-
 ing), 5034 Arsenal
 Pilley Packing & Flue Brush Mfg. Co.
 (Wedge Ring & Braided, for Steam,
 Water, Ammonia & Hydraulic), 600 S 3d

NEW JERSEY.

BLOOMFIELD—Combination Rubber Mfg.
 Co. "Dr. Braun's," "Bloomfield," "In-
 destructone," "Thermopak"
BOONTON—Boonton Rubber Co. (Hard Rub-
 ber & Asbestos Ring, etc.),
CAMDEN—New Jersey Asbestos Co.
 ("Gladiator" Metal Face)
COLLINSWOOD—Allen, Jos. ("Monitor,"
 "Bitous")
HAMILTON SQUARE—Mercer Rubber Co.
 ("Sayen-Reed" Asbestos)
JERSEY CITY—Johnson, Henry Co. (Ring,
 Spiral, Hydraulic, Square Flax, etc.), foot
 of Gates av
 N. J. Car Spring & Rubber Co. ("Gibral-
 tar" Black Sheet, Antimony Red
 Sheet), R. R. av., c. Brunswick
SMOOTH-ON MFG. CO. ("Smooth-on
 Iron Cement & "Smooth-On" Asbestos
 Sheet), 572 Communipaw av. (See adv.
 index, end of book)
 Voorhees Rubber Mfg. Co. ("Nubian," Sheet,
 "Long Life," "Red Sheets," "Grapho-
 Bestos," "Royal Blue," Cloth or Wire In-
 sertion Sheet, Spiral, Square Flax, Gum
 Core, Dry Dock, "Federal," "Union")
NEWARK—WALSH'S SONS & CO. (See
 adv. index, end of book)
PASSAIC—Manhattan Rubber Mfg. Co. (Rubber)
PERTH AMBOY—Mongrleve Engineering Co.
 ("A. M. C." Elastic Metallic)
TRENTON—Consolidated Rubber Co. ("Ad-
 vance," "Arion," "Duke," "Genesee," "Mo-
 hawk," "Royal," "Runic," "Star," "Mar-
 cot," "Sunset," "Superior" & "Ad-
 vance")

Crescent Belting & Packing Co. ("Sunset" &
 "Capital")
Empire Rubber Mfg. Co. ("Amazon," "Ala-
 bama," "Cardinal," "Faust," "Gem,"
 "Hercules," "Merrimac," "Model," "Moni-
 tor," "Paragon," "Perfect," "Relliance"
 & "Sterling")
Hamilton Rubber Mfg. Co. (Rubber)
Home Rubber Co. ("O. I. M., "Red Rose"
 & "N. B. O." Rubber)
Hunt, Jas. B. Mfg. Co. (Gum, Core, Flax)
Mercer Rubber Co. ("Red Breast" Rubber)
Stokes, Jos. Rubber Co. ("Red Seal" Rub-
 ber)
Thermoid Rubber Co. ("Black Bear" &
 "Thermidore," Rubber)
United & Globe Rubber Mfg. Co. (Rubber)
Whitehead Bros. Rubber Co. (Rubber)
Woven Steel Hose & Rubber Co. ("De-
 fender" Rubber)

NEW YORK.

ALBANY—Albany Rubber Tire Co. (Rubber)
**BUFFALO—BOSTON BELTING CO. (of
 Boston, Mass.)** (Rubber, "Forsyth," Combina-
 tion Ammonia, Plumbago, "Phoenix Red,"
 Piston, Spiral Piston, "Noxall," Ring,
 etc.), 90 Pearl. (See adv. index, end of
 book)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Ambrose Machine Co. ("Ambrose"
 Metallic Self-Adjusting Piston), Provost &
 Eagle
 Clinton Mfg. Co. ("Banner," "Red Cross,"
 "Vlm," "Montauk"), 83 Grand av
 Houchin-Alken Co. ("Law" Metallic), 39
 53d

Boroughs of Manhattan & Bronx.

**NEW YORK—AMERICAN GOETZE GAS-
 ket & Packing Co.** (All Kinds for All
 Purposes), ("Goetzerit," "Rex"), 532
 East 149th. (See adv. index, end of book)
American Mfg. Co. (Jute), 63 Wall
**BOSTON BELTING CO. (of Boston,
 Mass.)** (Rubber, "Forsyth," Combination,
 Ammonia, Plumbago, "Phoenix Red," Pis-
 ton, Spiral Piston, "Noxall," Ring, etc.),
 100 Reade. (See adv. index, end of book)
Boston Woven Hose & Rubber Co. (Of Cam-
 bridgeport, Mass.), 116 Duane
Brandon, Jas. ("Brandon," Balanced Cylin-
 der Ring), 390 11th av
Brandt, Randolph ("Selden," Square Flap,
 "Enterprise," "Zena," "Magneto"), 70
Buckley, Jno. W., 69 Warren Cortlandt
Buhne Metal Packing Co. (Metallic), 99
 Nassau
Cockburn Barrow & Machine Co. (Metal-
 lic), 30 Church
Colgan Mfg. & Supply Co. ("Colgan," High
 Pressure & Sheet), 42 South
Calmon Asbestos & Rubber Wks. of Am.,
 100 Reade
Common Sense Metal Packing Mfg. Co.,
 223 E. 23rd
Duval Metallic Packing Co. (Metal), 111
 B'way
Ehret Magnesia Mfg. Co. (of Phila.,
 Pa.), 80 Wooster
Empire Rubber Mfg. Co. (Rubber, All Kinds),
 143 Chambers
Excelsior Valve Co. (Water), 105 Fulton
Gilmour, R. M. Mfg. Co. (Asbestos), 105
 John
Goodyear Rubber Co. ("Pioneer" & "Gold
 Seal"), 787 B'way
Greene, Tweed & Co. ("Crescent," "Man-
 hattan," "Palmetto," "Royal," & "Un-
 ion"), 109 Duane
Gutta Percha & Rubber Mfg. Co. ("Red
 Jacket" & "Pyramid"), 126 Duane
Imperial Rubber Co., 253 B'way
Jenkins Bros. ("Jenkins 96"), 71 John
Johns, H. W.-Manville Co. ("Vulcabe-
 ton," "Kearsarge," "Mogul," "Mobi-
 lene," "Asbestocel," "Hydro," "Lib-
 erty," "Morris," Metallic), 100 William
Katzenstein, L. & Co. (Metallic & Flexible
 Tubular Metallic), 358 West
Keasbey & Mattison Co., 100 John. Works.
 Ambler, Pa.
Manhattan Rubber Mfg. Co. ("White
 Enamel," "Kertlandt," "Magnet,"
 "Mohican," "Viking," "Fulca," "Tor-
 pedo," "Headlight," "Golden Fleece,"
 "Walrus," "Raven," "Delhi," "Carl-
 illsl," "Parvenito," "Paranite" Sheet
 Rubber), 18 Vesey
Mechanical Rubber Co. ("Marco" Rubber)
 73 Reade
Metropolitan Rubber Co. (Rubber), 310 6th

Mineralized Rubber Co., 18 Cliff av
New York Asbestos Mfg. Co. (Asbestos,
 Flat, Rope & Wick), 80 John
New York Belting & Packing Co. (Ltd.)
 (Pure Sheet, Cloth Insertion Sheet,
 "Ruby" Sheet, "Salamanda" Sheet,
 "Cobb's" Round, Square & Spiral Pis-
 ton, "Amazon" Waterproof Hydraulic,
 "Magic" High Pressure, Square & Rub-
 ber Back Piston), 91 Chambers
New York Insulated Wire Co. ("Lightning
 Non-Tubular"), 114 Liberty
New York Rubber Co., 84 Reade
Peerless Rubber Mfg. Co. ("Artic," "Ger-
 mane," "Hercules," "Honest John,"
 "Peerless," "Rainbow," "Success,"
 "Uniphite" & "Zero"), 88 Chambers
PENNSYLVANIA RUBBER CO.,
 1741 B'way. (See adv. index, end of book)
Rhodes Improved Metallic Packing Co.
 ("Rhodes" Metallic), 149 B'way
Roberts, Geo. I. & Bros. (Inc.) (Square, Flax
 Packing), 471 4th av
Robertson, Jas. L. & Son, Inc.
 ("Eureka"), 48 Warren
Saunderson & Wright ("Nonesuch," "Amer-
 ican"), 465 W B'way
Schleren, Chas. A., & Co. (Leather), 30
 Ferry
STRONG MACHINERY & SUPPLY
 Co. (Steam, Ammonia, Hydraulic, Asbes-
 tos, etc., "Tisafine," "Dichtun-
 gsgumml," "Grapho-Asbestos," "Co-
 checo," "Rivalite," "Wolverine,"
 "Kingfisher," "Crown" & "Bull Frog
 Rivalite," "Grapho Rivalite," "Feather-
 lite" Metallic), 48 Franklin. (See adv.
 index, end of book)

**TUCKER & CARTER ROPE CO. (Ital-
 ian & American Twisted Hemp),** 76
 South & 167 Maiden la., New York,
 (See adv. index, end of book)
United States Indestructible Gasket Co.,
 50 Church
Vanda Co. ("Vanda"), 96 Spring
Voorhees Rubber Mfg. Co. (Steam "Nu-
 blan"), 48 Dey
Vulcan Asbestos Mfg. Co. ("Vulcabestos"),
 40 Gold
Waterbury Rubber Mfg. Co. (Rubber), 75
 Warren
Wendell & MacDuffie (Steam), 50 Church
Williams & Wells Co. ("Sayen-Reed,"
 "Wilwel"), 250 Fulton
Williamson & Co. ("Silver," "Perfect"),
 123 Liberty
Wilpaco Packing Co., 114 Liberty
 (End of New York City)

PALMYRA—Crandall Packing Co. (All Kinds
 for All Purposes, "Helios," "Hymol,"
 "Regina")
Dealers' Steam Packing Co. (Hemp &
 Flax)
Garlock Packing Co. (All Kinds for All Pur-
 triumph Steam Packing Co. poses)
TROY—Hammett, M. C. ("Trojan" Metallic)
Monarch Steam Blower Co. ("Sterling"
 Metallic)

OHIO.

AKRON—Akron Metallic Gasket Co. ("Fibre-
 bestos," "Mephisto" Metallic)
DIAMOND RUBBER CO. (Rubber)
 "Indian Red," "Silver Leaf," "Black
 Diamond" & Koh-I-Noor. (See adv.
 index, end of book)
Goodrich, B. F., Co. (Sheet, Piston &
 Valve Rod Packings in all styles &
 Goodyear Tire & Rubber Co. grades)
ALLIANCE—Federal Asbestos Mfg. Co.
 (Asbestos Plain, Braided, Wound
 Cloth & Sheet)
CINCINNATI—Acme Supply Co. ("Excel-
 lent"), 717 Main
**BOSTON BELTING CO. (Queen City
 Supply Co., Rep.),** 201 W Pearl. (See
 adv. index, end of book)
Bradford Belting Co., cor. 2d & Walnut
Cincinnati Rubber Mfg. Co. (Rubber)
Nuhring, Cnas., & Bro. ("I. X. L."
 Spiral, Square, Ring, etc.), 907 Walnut
CLEVELAND — BOSTON BELTING CO.
 (W. Bingham Co., Rep.), 1433-1455 9th,
 N. W. (See adv. index, end of book)
Consumers' Rubber Co. ("Superior"), 1407
 W 6th, N W
Mechanical Rubber Co. ("Marco," "Jupl-
 ter," "Saturn," "Hyperion," "Tucks,"
 "I. X. L., "Buckeye," "Kaffir," "Plum
 Para," "Bengal," "Monarch" Rubber).
 C. & P. R. R., nr. Nickel Plate R. R.
Ohio Metallic Packing Co.
COLUMBUS—Tippett Mfg. Co. (Metallic)
ELYRIA—Metallic Packing & Mfg. Co.
 ("20th Century" Metallic)

IRONTON—Ironton Engine Co. (Metallic)
 LOCKLAND—Carey, Philip Mfg. Co. (Asbestos, etc.)
 OBERLIN—National Metallic Packing Co. (Metallic)
 TOLEDO—BOSTON BELTING CO. (Boswick Braun Co.) (See adv. index, end of book)

PENNSYLVANIA.

ALLENTOWN—BOSTON BELTING CO. (Wm. H. Taylor & Co., Rep.), 250 Hamilton. (See adv. index, end of book)
 AMBLER—Keasbey & Mattison Co. (Cylinder & Steam Asbestos "Battle")
 BRIDGEPORT—Wilkinson Mfg. Co. ("Paragon" Metallic)
 CHESTER—Harper Mfg. Co. ("Harper" Metallic)
 ERIE—Continental Rubber Works ("Tribune," "Continental," "Liberty")
 Lake Shore Rubber Co. (Rubber)
 WATSON, H. F. CO. (Asbestos Braided, Piston Rod, Core Wicks, etc.) (See adv. index, end of book)
 FRANKLIN—Franklin Mfg. Co. ("Perfection" Journal Box, Piston Rod, etc.)
 HAZLETON—BOSTON BELTING CO. (Hazleton Machinery & Supply Co., Rep.) (See adv. index, end of book)
 JEANNETTE—PENNSYLVANIA RUBBER Co. ("Century" White Sheet & Wire Insertion, "Columbia" Spiral Piston Rod, Ring "Pennsylvania" Expansion Ring, Spiral Piston, "Reindeer," Red Sheet, also Rubber Back, Pure Sheet, Diaphragm, etc.) (See adv. index, end of book)
 MANHEIM—United States Asbestos Co. ("Usa-Co," "Carboline" Asbestos)
 NORTH WALES—Asbestos Fibre Spinning Co., Asbestos Rope, Wicks, Sheet, etc.)
 Anchor Packing Co. ("Tauril" Sheet, Allegheny & Gtn. avs.)
 PHILADELPHIA—Acme Packing & Rubber Co., 230 N 3d

Billington, Jas H. & Co. (Maltese Cross Brand), 113 Chestnut

BOSTON BELTING CO. (Mulconroy Co., Rep.), 722 Arch. (See adv. index & branch offices, end of book)

Brown, D. P. & Co. (Brown's Oil Proof Ring & Sheet, etc.), 264 N 4th

Cancos Mfg. Co. (Metallic "Black Squadron," "Rising Sun," "Globe," "White Squadron"), 146 N 2nd

Canfield Mfg. Co. (Ltd.). ("Empire" Braided Gum Core, "Canfield," "Square Flax Spiral & Ring, "Ambest," "Rex" & "Regal" Metallic), Howard & Lehigh

Double Service Packing Co., 430 Walnut

Ehret Magnesia Mfg. Co., Land Title bldg.

Elastic Metallic Packing Co. ("Collins" Metallic), 407 Cherry

France Packing Co., Inc. ("France's" Metallic, Piston & Valve Rod), 6506 State rd. Tacony

Houghton, E. F. & Co. ("Vim"), (Leather), 240 W Somerset

Latta, Jno. S., & Co., 1227 Arch

Montgomery Bros. ("M. B.," "Visa," "Diagonal," "Paragon," "Magnolia," "Victor," "Ajax," "Czar," "Standard," "American" & "Sterling" Gum Bore, Steam, Hydraulic & Ammonia), 48 N. Front

Mulconroy Co. (Inc.) ("Black Jack," "Indian," "Quaker," "Pilgrim," "Puritan," "Thorobred," "Victor," "Admiral" & "Monitor"), 722 Arch

Quaker City Rubber Co. (Chas. A. Daniel, Prop.) ("Daniels" P. P. Rod, "Ebonite," "Skihi," "Hercules," "Regal" & "Valvolite"), 629 Market

Restein, Clement Co. ("Belmont" & "Bell" Square Flax, Gum Core, etc.), 139 N 2d

Ruwell, Wm. F. (Cylinder), 719 Noble

SAYEN, OSGOOD ("Torpedo" Asbestos, "Un-X-L-D" Plumbago Unvulcanized, "Johnson" Vulcanite Rubber, "Midnight" Oil-Proof, "Tucks," "Auto" & "Melville" Oxidized White Rubber), Arcade bldg. Warerooms, 131 Market. (See adv. index, end of book)

Schlichter Jute Cordage Co. (Jute), 20 N Front

Skipton, Valentine Co., 2321 N 30th

Smith, Jas., Packing Co., 3108 Germantown av., Phila., Pa.

Standard Supply & Equipment Co. ("Torpedo" Asbestos Sheet), 1710 Market

Underwood, H. B. & Co. ("St. John" Self-Adjusting Cylinder Packing), 1025 Hamilton

U. S. Metallic Packing Co. (Metallic), 427 N 13th

U. S. Mineral Wool Co. (Metallic), 140 Cedar

Walker, Thos. & Sons (Metallic), 4619 Taconv. Fkd.

Walsh Packing Co. (Metal Face, Steam & Water), 304 New

Watt's Jno. M. Sons ("Dirigo," "Nonpareil" & "Keystone"), 232 N 3d

Williamson & Cassedy, 526 Market

Winnie, F. W. & Son (Tarred & Untarred Jute), 237 Market

PITTSBURG—BOSTON BELTING CO. (J. & H. Phillips, Rep.), 136 Sixth. (See adv. index, end of book)

Chaplin-Fulton Mfg. Co. ("Roger"), 36 Penn av

Flocker, Jno. & Co. (Ltd.). (Lubricating Hemp), 957 Liberty av

Gerwig, H. & Sons, 1301 Penn av

Keystone Adjustable Metallic Packing Co. (Adjustable Metallic)

McClintock & Irvine Co., Neville & P. R. R.

PITTSBURGH GAGE & SUPPLY Co. ("Best-Ov-All," "Fort Pitt" Sheet, "Port Pitt" Spiral), 30th & Liberty av. (See adv. index, end of book)

Pittsburg Steam Packing Co. ("Reliance," "Practical" & "Iron City"), 210 2d

Turner, C. A., 16 Market

SCRANTON—BOSTON BELTING CO. (Scranton Supply & Machinery Co., Rep.), 131 Wyoming. (See adv. index, end of book)

WILKES-BARRE—Holmes Metallic Packing Co. (Metallic Piston Rod & Valve Stem)

RHODE ISLAND.

BRISTOL—National India Rubber Co. ("N. I. R.," "Bristol," "Stanhope," Sheet, Piston & Pump)

SOUTH CAROLINA.

CHARLESTON—Charleston Metallic Packing Co. ("Metalloid," "Ideal," "Parabesto," "Delta," "Eclipse," "Dixie," "Carolina," "Navy," "Valbectine," "Semi-Bronze," "Morocco," "Magnolia," "Sumter," "Gilt Edge")

TENNESSEE.

MEMPHIS—BOSTON BELTING CO. (Towner & Co., Rep.), 78 N Main (See adv. index, end of book)

NASHVILLE—BOSTON BELTING CO. (Keith, Simmons & Co., Rep.), 316 Union. (See adv. index, end of book)

WASHINGTON.

SEATTLE—BOSTON BELTING CO. (Simonds Mfg. Co.), 119 Jackson. (See adv. index, end of book)

WISCONSIN.

CUDAHY—Federal Rubber Co. (Rubber, all Grades)

MILWAUKEE—BOSTON BELTING CO. (A. H. Gardner Co., Rep.), 380 E Water (See adv. index, end of book)
 Western Kawhide & Belting Co. (Rawhide)
 STEVENS POINT—Camee Metallic Packing Co. (Metallic)

Packing (Metallic)

Advance Packing & Supply Co. (Asbesto-Metallic Sheet), 123 Franklin, Chicago, Ill.

Ambrose Machine Co. ("Ambrose" Self-Adjusting Piston), Provost & Eagle, Brooklyn, N. Y.

American Balance Valve Co., Jersey Shore, Pa.

AMERICAN-GOETZE GASKET & PACKING Co. ("Rex" & Goetze's for Saturated Steam, Superheated Steam, Cold & Hot Water & for Highest Steam & Water Pressure), 532 E 149th. (See adv. index, end of book)

American Metallic Packing Co. (for Steam), Lexington, Ky.

American Steam Packing Co. (Asbesto-Metallic), 51 High, Boston, Mass.

Aurora Metal Co. ("Lewis & Kunzer" Piston), Aurora, Ill.

BOSTON BELTING CO. ("Forsyth" Combination), 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)

Bridgeport Metallic Packing Co. ("Law"), Bridgeport, Conn.

Bnhne Metal Packing Co., 93-99 Nassau, New York City

Cassco Bar-Metallic Packing Co., 140 Dearborn, Chicago, Ill.

Charleston Metallic Packing Co. (Semi-Bronze), Charleston, S. C.

Chicago Bailey Co. ("Chief's Own" Bar Metallic), 260 S. Clark, Chicago, Ill.

Clark Flexible Metallic Packing Co. (Flexible Metallic), 71 Kennebec, Portland, Me.

Comee Metallic Packing Co., Steven's Point, Wis.

Common Sense Metal Packing Mfg. Co., 223 E 23d, New York

Cook, C. Lee, Louisville, Ky.

Davidson, M. T. ("Watson's" Piston Rod, etc.), 43 Keap, Brooklyn, N. Y.

Duval Metallic Packing Co., 111 B'way, New York

Federal Metallic Packing Co. ("Standard" Flexible Metallic Fibred Compound), 404 Atlantic av., Boston, Mass.

France Packing Co. (Inc.) (Piston & Valve Rod, etc.), 6506 State rd. Tacony, Phila., Pa.

Garlock Packing Co. ("Pitt"), Palmyra, N. Y.

Goodsell Packing Co., 23 S Canal, Chicago, Ill.

Hammett, M. C. ("Trojan"), Troy, N. Y.

Harper Mfg. Co. ("Harper"), Chester, Pa.

Holmes Metallic Packing Co. (Piston Rod & Valve Stem), Wilkes-Barre, Pa.

Houchin-Aiken Co. ("Law"), 39 53d Brooklyn, N. Y.

Ideal Metallic Packing Co., South Stillwater, Minn.

Ironton Engine Co., Ironton, O.

Jerome & Elliott, 351 W Monroe, Chicago, Ill.

Katzenstein, L. & Co., 358 West, New York

Keystone Adjustable Metallic Packing Co. (Adjustable), Pittsburg, Pa.

Lee, C., Mfg. Co., Louisville, Ky.

Merrill, Wm. B. & Co. ("Tripp" for Piston Rods, etc.), 72 India, Boston, Mass.

Merwarth Metallic Gasket Co., East Cambridge, Mass.

Metallic Packing & Mfg. Co. ("20th Century," for All Purposes), Elyria, O.

Mitchell, Geo. E. (Rod), 92 State, Boston, Mass.

Mongrieve Engineering Co. ("A. M. C." Elastic), Perth Amboy, N. J.

Morgan & Wright (Inc.), ("White Seal" Asbestos Metallic Cloth Insertion), Detroit, Mich.

National MetaHic Packing Co., Oberlin, O.

Northern Metallic Packing Co., St. Paul, Minn.

Ohio Metallic Packing Co.

Paxton-Mitchell Co. ("Mitchell"), Omaha, Neb.

Phenix Lubricator Co., 7 S Jefferson, Chicago, Ill.



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Pioneer Brass Works ("Deed's" Piston Rod), Indianapolis, Ind.
Power Specialty Co., 111 B'way, New York
Prescott Co. ("Regal"), Menominee, Mich.
Reeves Machine Co. ("The Hartham"), Trenton, N. J.

Revere Rubber Co. ("Giant" & "Samson," Spiral Piston, etc.), 77 Bedford, Boston, Mass.

Rhodes Improved Metallic Packing Co. ("Rhodes"), 149 B'way, New York
Ryerson, Jos. T. & Son ("Regal"), 16th & Rockwell, Chicago, Ill.

Stayman Mfg. Co., 95 Liberty, New York
Steel Mill Packing Co. ("Safety", Plastic Metallic), Detroit, Mich.

STRONG MACHINERY & SUPPLY CO. ("Strong's" Rivalate, Metal Face, Metallic Loop & Semi-Metallic), 48 Franklin, New York. (See adv. index, end of book)

Swain Lubricator Co., cor. Lake & S Water, Chicago, Ill.

Tippett Mfg. Co., Columbus, Ohio
Trainer, C. W. Mfg. Co. ("Asbestos Metallic"), 89 Pearl, Boston, Mass.

Tripp Metallic Packing Co., 74 India, Boston, Udstad, S. (Elastic), Aurora, Ill. Mass.

Unique Engineering Co. (Metallic Ring), 100 Hinsdale, Brooklyn, N. Y.
United States Metallic Packing Co., 427 N 13th, Phila., Pa.

Walker, Thos. & Sons, 4619 Tacony Fkd., Philadelphia, Pa.

Walsh Packing Co., 111 S 7th, Phila., Pa.
Ward & Upright Engineering Co., 41 York, Brooklyn, N. Y.

Wilkinson Mfg. Co. ("Paragon" Piston Rod), Bridgeport, Pa.

Wing, J. T. & Co., 19 Woodward av., Detroit, Mich.

Packing (Piston Rod)

(See Packing, Metallic; also Packing Manufacturers)

Packing (Rawhide)

Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago, Ill.

Mabb's Hydraulic Packing Co. ("Mabb's"), Board of Trade bldg, Chicago, Ill.
National Rawhide & Belting Co., Niles, Mich.

STRONG MACHINERY & SUPPLY CO. ("Strong's" Square Platted Rawhide), 48 Franklin, New York. (See adv. index, end of book)

Western Rawhide & Belting Co. (White Rope), Milwaukee, Wis.

Packing (Ring)

American Balance Slide Valve Co., San Francisco, Cal., & Jersey Shore, Pa.

AMERICAN-GOETZE GASKET & Packing Co. ("Goetzerit"), 532 E 149th, New York. (See adv. index, end of book)

American Steam Packing Co., 51 High, Boston, Mass.

Anderson, G. P., 163 Oliver, Boston, Mass.
Boonton Rubber Co. (Hard Rubber & Asbestos), Boonton, N. J.

Brandon, Jas. ("Brandon," Balanced Cylinder), 390 11th av, New York

Bridgeport Metallic Packing Co. ("Law"), Bridgeport, Conn.

Brown, D. P. & Co. (Brown's Oil Proof), 262 N 4th, Phila., Pa.

Columbia Ring Packing Co., 6 Howard, New York

Continental Rubber Works (Rubber), Erie, Pa.
Crandall Packing Co., Palmyra, N. Y.

Garlock Packing Co., Palmyra, N. Y.
Gould Packing Co., Cambridgeport, Mass.

Greenwood Mfg. & Supply Co. ("Greenwood"), 147 Milk, Boston, Mass.

Excelsior Ring Packing Co., 430 Kent av, Brooklyn, N. Y.

Federal Metallic Packing Co. (Flexible Metallic), 404 Atlantic av., Boston, Mass.

Jerome & Elliott, 351 W Monroe, Chicago, Ill.
Johnson, Henry Co., Jersey City, N. J.

Knowlton, Geo. W. Rubber Co. (And Spiral, Square & Round), 88 Broad, Boston, Mass.

Knowlton Packing Co. ("Lubron"), Newton, Mass.

Magnolia Metal Co., 260 W B'way, New York

Morgan & Wright (Inc.) ("Morganite," "Nagrom," "Cadillac," "M-W" High Pressure & Hydraulic, etc.), Detroit, Mich.

New York Belting & Packing Co. (Ltd.), (Rubber), 91 Chambers, New York

Peerless Metal Mfg. Co., Pittsburg, Pa.

PENNSYLVANIA RUBBER CO. ("Columbia" Ring, "Pennsylvania" Expansion Ring), Jeannette, Pa. (See adv. index & branch offices, end of book)

Pilley Packing & Flue Brush Co., 606 S 3d, St. Louis, Mo.

Quaker City Rubber Co. (Chas. A. Daniel, Prop.) ("Ebonite"), 629 Market, Phila., Pa.

Revere Rubber Co. (Revere Lubricated), 77 Bedford, Boston, Mass.

SAYEN, OSGOOD, Arcade bldg., Phila., Pa. (See adv. index, end of book)

STRONG MACHINERY & SUPPLY CO. ("Strong's Veri Best" Extra High Pressure, Piston & Valve Rod), 48 Franklin, New York. (See adv. index, end of book)

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Wing, J. T. & Co., 19 Woodward av, Detroit, Mich.

Packing (Sheet)

AMERICAN-GOETZE GASKET & Packing Co. ("Goetzerit"), 532 E 149th, New York. (See adv. index, end of book)

Crandall Packing Co., Palmyra, N. Y.

Manhattan Rubber Mfg. Co. ("Taranite" Rubber), 18 Vesey, New York

National India Rubber Co. ("N. I. R." Red), Bristol, R. I.

SAYEN, OSGOOD ("Wissahocken" Red Sheet), Arcade bldg., Phila., Pa. (See adv. index, end of book)

PENNSYLVANIA RUBBER CO. ("Century" White, Pure Sheet Rubber, "Reindeer" Red Sheet, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)

SMOOTH-ON MFG. CO. ("Smooth-On" Asbestos), 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)

STRONG MACHINERY & SUPPLY CO. ("Strong's I. O. P. Dichtungsgummi"), 48 Franklin, New York. (See adv. index, end of book)

***Packing (Sheet "Smooth-On" Asbestos)**

SMOOTH-ON MFG. CO., 572 Communipaw ave, Jersey City, N. J. (See adv. index & branch offices end of book)

***Packing Sticks**

STRONG MACHINERY & SUPPLY CO. ("Strong's Handy"), 48 Franklin, New York. (See adv. index, end of book)

Packing (Weather Strip)

Bosley, D. W. Co. (For Refrigerators, Ice Boxes, etc.), 303 Fulton, Chicago, Ill.

***Packing (Wire Rope Pulley)**

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Padlocks

(See Lock Manufacturers, Padlock)

Pads (Stamp)

Klausmann, J., 70 William, Newark, N. J.

Pail Ears

Berger Bros. Co. (Pail Ears, Pans, Kettles, etc.), 237 Arch, Phila., Pa.

Dover Stamping & Mfg. Co., Cambridge, Mass.

Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.

Forsyth Mfg. Co., 308 Terrace, Buffalo, N. Y.

Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.

Pinne & Atwood Mfg. Co., Waterbury, Conn.

Townsend, G. G., Winchendon, Mass.

Troy Nickel Works, Albany, N. Y.

Troy Stamping Works, Troy, N. Y.

WILSON, F. CORTEZ & CO. (Tin), 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pails (Chemical Fire)

Hamilton, E. A. & Co. ("Waggoner" Sanitary), Grand Rapids, Mich.

Pails (Copper)

Atlantic Stamping Co. (Polished, Nickel-plated etc.), Rochester, N. Y.

Pails (Dairy)

Atlantic Stamping Co. ("Atlantic" Tin), Rochester, N. Y.

Pritchard-Strong Co., Rochester, N. Y.

Pails (Fibre)

Barron, Jas. S. & Co., 127 Franklin, New York

Cordley & Hayes (Wholesale Jobbers), 172 Duane, New York

United Indurated Fibre Co. of N. J. ("Fibrotta"), Lockport, N. Y.

Pails (Foundry)

American Wooden Ware Mfg. Co. (White Oak), Toledo, O.

HILL & GRIFFITH CO., (Galvanized Iron), Cincinnati, O. (See adv. index, end of book)

Pails (Galvanized Iron)

Atlantic Stamping Co., Rochester, N. Y.

Buhl Stamping Co., Detroit, Mich.

Central Stamping Co., 174 Fulton, New York

Dover Stamping & Mfg. Co., Cambridge, Mass.

Dressel Railway Lamp Works, 3860 Park av, New York

EDWARDS MFG. CO. ("Edwards" Sanitary Odorless Kitchen), 545-565 Eggleston av, Cincinnati, O. (See adv. index, end of book)

Geuder & Paeschke & Frey Co., Milwaukee, Wis.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.

Lyon Metallic Mfg. Co., Aurora, Ill.

National Enameling & Stamping Co., 81 Fulton, New York

New England Enameling Co. (Water, Fire, etc.), Middletown, Conn.

Pritchard-Strong Co., Rochester, N. Y.

Republic Metal Ware Co., Buffalo, N. Y.

Victor Stamping Co. (Stock, Tap, Water, Fire, etc.), Twilight, O.

Wall, P., Mfg. Supply Co., Allegheny, Pa.

Wallace, Jno. W. Co., 396 S 2nd, Brooklyn, N. Y.

Wheeling Corrugating Co., Wheeling, W. Va.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pails (Garbage)

Atlantic Stamping Co., Rochester, N. Y.

Dover Stamping & Mfg. Co. (Galvanized), Cambridge, Mass.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.

Justrite Co. ("Justrite"), 218 Lake, Chicago, Ill.

Lyon Metallic Mfg. Co., Aurora, Ill.

New England Enameling Co. (Galvanized), Middletown, Conn.

Wallace, Jno. W. Co., 396 S 2nd, Brooklyn, N. Y.

WILSON, F. CORTEZ, & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Witt Cornice Co. ("Witts"), Cincinnati, O.

Pails (Milk Strainer, Etc.)

Atlantic Stamping Co. ("Atlantic" All Tin), Rochester, N. Y.

Lyon Metallic Mfg. Co., Aurora, Ill.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pails (Paper)

O. K. Paper Pail Co., Middletown, O.

Pails (Steel, Shop)

Clark, W. J. Co (Sheet Steel), Salem, O.

Cleveland Wire Spring Co. (Sheet Steel), Cleveland, I., (for Gravel, Sand, Shop, etc.), 54 Vesey, New York

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Lyon Metallic Mfg. Co., Aurora, Ill.

Ohio Mfg. Co., Painesville, Ohio

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pails (Tar)

Durlach, I (for Roofers, Contractors, etc.), 54 Vesey, New York

Pails (Tin)

(See Tinware Manufacturers)

Pails (Tin, Lard)

Bertels, W. B. & Son Co., Wilkes-Barre, Pa.
Brecht, B. S., Co. (Tin), N. 12th & Cass av., St. Louis, Mo.
Trethaway Bros., Parsons, Pa.

Pails (Waste)

(See Cans, Waste)

Pails & Buckets (Wood)

American Woodenware Mfg. Co. (White Oak Stable, Derrick & Foundry), Toledo, O.
Beaver Mills, Keene, N. H.
Bousfield Woodenware Co., Minneapolis, Minn.
Buckeye Churn Co. ("Eureka," "Climax," "Buckeye," "Oak Horse"), Sidney, O.
California Barrel Co., San Francisco, Cal.
Farrar, Chas. D., Troy, N. H.
Hightower Box & Tank Co., Atlanta, Ga.
Keene Woodenware Co., Keene, N. H.
Lovering, John W., Sandown, N. H.
March, James, Westport, N. H.
Menasha Wooden Ware Co., Menasha, Wis.
Mengel Box Co., Louisville, Ky.
Ohio Pail Co., Middlefield, O.
Paepcke-Leicht Lumber Co., Chicago, Ill.
Pelree, W. E. & Co., Milford, N. H.
Richmond Cedar Werks, Richmond, Va.
Prewitt-Spurr Mfg. Co. (Red Cedar, Ash, etc.), Nashville, Tenn.
St. Louis Wooden Ware Works, St. Louis, Mo.
Tuttle, John D., Marlboro, N. H.
Whitcomb Mfg. Co., West Swanzey, N. H.

Paint Burners

American Stove Co. ("Reliable" Gasoline), 414 N. 6th, St. Louis Mo.
Best Light Co., Canton, O.
BERNZ, OTTO, S., 13th & S. Orange av, Newark, N. J. See adv. index, end of book
Chicago Pneumatic Tool Co. ("Tynan," Operated by Compressed Air), Flsher bldg., Chicago, Ill.
Clayton & Lambert Mfg. Co., Detroit, Mich.
Phillips & Harmon ("Warrior" Gasoline Torch), Northville, Mich.
Sun Vapor Street Light Co., Canton, O.
Turner Brass Works (Gasoline), Sycamore, Ill.

***Paint for Oil Cloth**

WILBUR, JOB CO., Office: Providence, R. I. Factory, Phila., Pa. (See adv. index, end of book)

***Paint Grinders (Dry Material)**

WILBUR, JOB CO., Office: Providence, R. I. Factory, Phila., Pa. (See adv. index, end of book)

**J. Wilbur Company,
DRY MINERAL PAINT GRINDERS**

Also job grinding in carload lots. Specialties: Talckene, Black Filler, American Ochre and slates (red and gray), powdered dry.
Sliding on P. R. R. and P. & R. railroads.

Factory, PHILADELPHIA, PA.

Office, PROVIDENCE, R. I.

**Paint Grinding & Mixing
Machinery**

(See Machinery)

Paint Mfrs.

(For Special Kinds of Paints see Sub-classifications following this trade)

ALABAMA.

BIRMINGHAM—Birmingham Paint Mills

CALIFORNIA.

LOS ANGELES—Bowers, U. R. & Sons, 942 S Brininstool Co., 2003 Palmetto Main
Whittier-Coburn Co., 165 N Los Angeles
OAKLAND—Buswell Paint Co.
SAN FRANCISCO—Bass-Hueter Paint Co., Chemical Paint Co., 816 Mission
DIXON, JOS. CRUCIBLE CO. (Graphite). (See adv. index, end of book)
Nason, R. N. & Co., 151 Potrero av
Paraffine Paint Co., Merchants' Exchange bldg.
Yates, Chas. & Co., 320 Market

COLORADO.

DENVER—Humphrey-Jones Paint Co., 1621 Arapahoe
James, B. L. Mercantile & Mfg. Co. (The), Arapahoe
McMurry Mfg. Co., Arapahoe
Reitze Wall Paper & Paint Co., 1647 Welton
Western Elaterite Roofing Co., Equitable bldg

CONNECTICUT.

BRIDGEPORT—American Lacquer Co.
Crockett, D. B. Co.
NEW MILFORD—Bridgeport Wood Finishing Co.
NORWICH—Hammond-Boynton Paint & Chemical Co. ("Ferox" Iron Oxide)
WATERBURY—Wright, E. E. (Roof), 59 Centre

DELAWARE.

WILMINGTON—Bradford, Jas. Co.
Bryan, Jas. M.
Cartmell, Thos. B., Paint & Glass Co.

GEORGIA.

ATLANTA—Cooledge, F. J. & Bro., 12 N Southern Roofing Co. (Roof) Forsyth
Tripod Paint Co., 37 N Pryor
AUGUSTA—O'Connor & Schweers Paint Co.

ILLINOIS.

AURORA—Akron Mining, Milling & Mfg. Co.
CHICAGO—Adams & Elting Co., 155 W Wash'n bou
Allen Paint & Putty Works, 214 S Clinton
Bereda Mfg. Co., 57 Illinois
Chicago White Lead & Oil Co., N Greene & Fulton
Chicago Wood Finishing Co., 259 Elston av
Dewep Carbon Paint Co., 1507 N Lincoln
Diamond Red Paint Co., N Lincoln & Diversity bou
Detroit White Lead Works, 192 Kinzie
DIXON, JOS. CRUCIBLE CO. (Graphite), Monadnock blk. (See adv. index, end of book)
Enterprise Paint Mfg. Co., 225 W Van Ernecke & Co., 629 N Halsted Buren
Good Paint Co., 225 Dearborn
Hanna & Andrus Mfg. Co., Weed & Hawthorne
Heath & Milligan Mfg. Co., 170 Randolph
Hooker, H. M., Co., 120 Washington
Illinois Paint Mfg. Co., 502 S Homan av
Indiana Indestructible Paint Co., 84 Adams
Martin-Senour Mfg. Co., 2514 Quarry
Nubian Paint & Varnish Co., N 51st & Bloomingdale av
Pltkin, Geo. W., Co., N Carpenter & Fulthurst, F. W. & Co., 29 River ton
Vilas Bros., 227 5th av
Wadsworth-Howland Co. (Inc.), Carpenter & Fulton

CHICAGO HEIGHTS—Andrus, Win. H. Mfg. Co. (Dry Colors)
EAST ST. LOUIS—Mephram, Geo. S. & Co.
FREEPORT—Natural Carbon Paint Co.

INDIANA.

ALEXANDRIA—American Insulating Material Mfg. Co. (Sawyers' Popular Brand)
INDIANAPOLIS—Ajax Paint Co., ("Wood-pecker"), 920 Biddle
Burdal, A. Co., 102 S Meridian
Indianapolis Paint & Color Co., 240 Mass. av
Sargeant Paint & Color Co., Mass. av & New
VALPARAISO—Parker, Chas. H. Co. Jersey

IOWA.

DES MOINES—Elaterite Paint & Mfg. Co
FORT DODGE—Iowa Paint Mfg. Co.
PELLA—Van Nimmwegen, A. P. & Bro.

KENTUCKY.

ASHLAND—Ashland Paint Co.
COVINGTON—Boehmer, Albert L.
LOUISVILLE—Bridges, Smith & Co.
Kurpees Paint Co.
Louisville Paint Mfg. Co.
Long, C. R., Jr., Co., 628 E Main
Louisville Lead & Color Co., 15th & Lytle

LOUISIANA.

NEW ORLEANS—American Paint Works, 2215 Bernhardt, David Paint Co. S Water
McWilliams, R., Ltd., 342 Camp

MAINE.

PORTLAND—Burgess, Fobes & Co.

MARYLAND.

BALTIMORE—Baltimore Copper Paint Co., 508 E Hughes
Davis, H. B. Co., 701 Keyser Bldg
Dunkel, Wm. I. & Co.
Hanline Bros., 23 S Howard
Hirshberg, Hollender & Co., 25 W Pratt
Kaufman, Edw. L. & Co., c Lafayette & Liberty
Miller & Graham, Water & Frederick
Popplein, G. & N., Jr., 220 North
Rubber Paint Co., Warner & Wooster
Seim Paint Co., Howard & Fayette
Thomas Paint Mfg. Co., 930 W Fayette

MASSACHUSETTS.

BOSTON—Briggs, John & Co., 47 Purchase
CABOT, SAMUEL, 141 Milk. (See adv. index, end of book)
Chadwick-Boston Lead Co., 162 Congress
DIXON, JOS. CRUCIBLE CO. (Graphite), 101 Tremont. (See adv. index, end of book)
Gillman, C. H., 103 Merrimac
Hoffman, J. W. Co., 438 Atlantic av
Prince, James H. Paint Co., 5 Lancaster
Stickney, J. W. & Co., 31 Milk
Tremont Paint & Varnish Co.
Wadsworth, Howland & Co. (Inc.), 84 Washington
Wheeler, Asahel Co., 52 High
GLOUCESTER—Henderson & Johnson
Tarr, Jas. H. Co. (Copper & Iron Marine), Hocky Neck
Tarr & Wonson (Marine), Rocky Neck
NEW BEDFORD—Brightman Bros., 146 Front
Kirby, Geo. Jr., & Co., Wall nr Acushnet
SALEM—Philbrick, L. B.
SPRINGFIELD—Hampden Paint & Chemical
WATERTOWN—Waterproof Paint Co. Co.
WELLESLEY—Woods, Henry Sons Co.

MICHIGAN.

DETROIT—Acme White Lead & Color Works, St. Aubin av & M. C. R. R.
Berry Bros.
Boydell Bros. White Lead & Color Co., 40 Champlain
Detroit Graphite Mfg. Co., 10 12th
Detroit Refining Co., Majestic bldg.
Detroit White Lead Works, 532 Milwaukee av. E
Ditzler Color Co., 18 Balto ave. W
Frazer Paint Co.
Peninsular Paint & Varnish Co., St. Aubin & M. C. R. R.
FLINT—Michigan Paint Co. (Graphite)
KALAMAZOO—Lakey, A. L. Co. (Mixed)
SAGINAW—Asphalt Roofing Co.
U. S. Graphite Co.

MINNESOTA.

MINNEAPOLIS—Atlas Paint Mfg. Co., 515 1st av. S
Maire Paint Co. (All Minerals), 242 1st av. N.
Minn. Linseed Oil Paint Co., 1101 S 3d
ST. PAUL—Blood, T. L. & Co., 413 Wacouta
Northern Paint Co., 318 E 7th

MISSOURI.

ST. LOUIS—Becker-Moore Paint Co., 1015 Lucas av
DIXON, JOS. CRUCIBLE CO. (Of Jersey City, N. J.) (Graphite), Victoria bldg. (See adv. index, end of book)

Eberson Paint Co., 2000 Pine
Great Western Paint & Color Co., 814 Manchester av
Hammar, F. Paint Co., 6th & Locust
Kent & Purdy Paint Co., 701 N 2d
Mound City Paint & Color Co., 811 N 2d
Platt & Thornburgh Paint Co., 620 Franklin av
St. Louis Surfacers & Paint Co. ("Metalsteel"), 26 S Commercial
Thomas Mfg. Co., 215 S Main
Vane-Calvert Paint Co., 823 Locust

NEBRASKA.

LINCOLN—Lincoln Paint & Color Co.
Nebraska Paint & Lead Co.
OMAHA—National Oil & Paint Co., 1015 Jones

NEW JERSEY.

BELLEVILLE—Dielectric Co. of Am.
BOUNDBROOK—Franklin Co.
BRIDGETON—Shaw, John P. & Co.
CAMDEN—Fox, Harry
GIBBSBORO—Lucas, John & Co.
HARRISON—Cromwell-Walker Co.
HOBOKEN—Pfugh, Albert & Co., Willow av
JERSEY CITY—Baker, Wm. T., 228 Suydam
DIXON, JOS. CRUCIBLE CO. (Graphite) (See adv. index, end of book)
Louderbough, Harry
New Jersey Paint Works (Louderbough, Hy. Prop.), (Oils, Paints & Antifouling Paints & Copper Paints & Marine Paints), Wayne & Fremont
Stowell Mfg. Co., 454 West Side av
Woolsey, C. A. Paint & Color Co., 500 Grand
NEWARK—Ackerman, Henry, 578 5th
Cawley, Clark & Co., 278 Passaic
Eureka Chemical Co., 5 Howard
Rice, S. E. M. Filler Co. (Flat White Enamelled Primer), 21 Abel
NEW BRUNSWICK—Watson, J. D. & Co.
PATERSON—Norwood & Berdan

NEW YORK.

ADAMS—Rice, A. L.
BROOKLYN—(See New York City, Borough of Brooklyn)
BUFFALO—Buffalo Enamel & Stain Co., D. S. Morgan bldg
Buffalo Oil, Paint & Varnish Co., 1317 Elk
Mets, P. A. Paint Co., 15 Oak Grove av
CLINTON—Clinton Metallic Paint Co.
COLLEGE POINT—(See New York City, Borough of Queens)
ELLENVILLE—Ulster Paint Works
FISHKILL ON THE HUDSON—Hammond, Benjamin
LONG ISLAND CITY—(See New York City, Borough of Queens)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Averill Paint Co., 240 Plymouth
Century Paint & Wall Paper Co., 95 S 5th
Devoe, F. W. & C. T. Reynolds Co., 565
Ingersoll, O. W., 243 Plymouth
King Paint Mfg. Co., 23 Durham pl
Kuhis, H. B. Fred, 719 3d av
Leavitt, Louis, 454 Driggs av.
McCafferty, Jas. A., N 9th
McNaughton, Wm. D., 185 Oakland
McQuade, John & Co. (Stevens' Brick Reds, etc.), 416 Marcy av
Masury, John W. & Son, 50 Jay
Moore, Benjamin & Co., 231 Front
Smith, J. Lee & Co. 700 Hicks
Sonneborn, L., Sons (Inc.), 262 Pearl
Stewart, Wm. H. Mfg. Co., 65 Delevan
Weatherline Paint Works, 139 Steuben

Boroughs of Manhattan & Bronx.

NEW YORK—Billings, King & Co., 438 Pearl
Burns, C. L., 156 5th av
Childs, Chas. M. & Co., 225 Pearl
Chilton Paint Co., 100 William
Coulston, J. W. & Co., 136 Liberty
Devoe, F. W. & C. T. Reynolds, Co., 108
Fulton
DIXON, JOS. CRUCIBLE CO., 68
Reade. (See adv. index, end of book)
Dunham, Thomas C., 68 Murray
Fox, M. Ewing & Co. (Permanite), 240 E
136th
Gardiner, Geo. N. & Son, 15 William
Gould Gibraltar Paint Co., 32 Union sq.
Grote, George W. & Co., 432 E 102d
Horn, A. C. Co.
Holzapfel's Am. Composition Co., 18 B'way

Ilsley, Doubleday & Co., 229 Front
Johnson & Oswald Co., 380 Pearl
Leggett & Bro., 301 Pearl
Longman & Martinez, 207 Pearl
Manhattan Color Works ("Tem-Po-Va"), 197
Amsterdam av
Miller, Clifford L. & Co. (Minwax), 110 E 23d
Moser, Charles Co., 149 Washington
Nansen Composition & Paint Co., 116
National Lead Co., 111 B'way Broad
New York Roof Paint Co., 100 William
Pierce, F. O. Co., 12 W. B'way
Prince Mfg. Co. (Metallic Dry Paints & Colors), 2 Cliff

Rahtjen's Am. Composition Co., 1 B'way
Saunders, Theo., 150 Nassau
Smith, Edw. & Co., 141 B'way
Smith, J. Lee & Co., 59 Frankfort
Standard Paint Co., 100 William
Tiemann, D. F. & Co., 44 Duane
Toch Bros., 320 5th av
Williams, Samuel J., 181 South
Wix, Charles & Co., 133 Reade
Zibell Damp Resisting Paint Co., 273
Water

Borough of Richmond.

NEW BRIGHTON—Muralo Company

Borough of Queens.

LONG ISLAND CITY—Willey, Charles A.
Co., Nott av
(End of New York City)
NIAGARA FALLS—International Acheson
Graphite Co.
OGDENSBURG—Rossle Iron Ore Paint Co.
(Metallic)
RANDOLPH—Elko Paint Co. (Enamel Oxide)
ROCHESTER—Clark Paint, Oil & Glass Co.,
131 State
SCHENECTADY—Engleman & Bellinger, 212 S
Centre
TROY—Connors, Wm., Paint Mfg. Co., 669
Waverly—Thomas, A. H. Paint Co. River

NORTH CAROLINA.

HIGHPOINT—Alexander, H.
WILMINGTON—Pannill Paint Co.
Spirittine Chemical Co.

OHIO.

BARBERTON—Carrara Paint Co.
CANTON—Arlington Mfg. Co.
Canton Paint & Varnish Co.
Goheen Mfg. Co. (Carbonizing Coating)
CARTHAGE—Shatfield Mfg. Co. ("Carho")
CINCINNATI—Allen Anti-Rust Mfg. Co., 439
Race

Boice, Louis H. & Co., 2311 Gilbert av
Bradley Mfg. Co., 1518 Gest
Eagle White Lead Co., 1030 B'way
Hascall Paint Co.
Kolbe, John Co., 229 W 5th
Long, Edwin & Co., 845 Clinton
Mamolith Carbon Paint Co., 2d & Main
Meyer, E. H. & Co., 906 Walnut
Moser, Chas. Co., 215 E 9th
Peale Paint & Glass Co., 904 Central av
Washburn, Ira D. Co., 1010 Central av
CLEVELAND—American Graphite Co. ("Graph-
aule"), Schofield bldg
Atlantic Paint Co., Bessemer av & C. P.
R. R.
Atlantic Refining Co. ("Arco" Elastic Car-
bon), Citizens' bldg
Billings-Chapin Co., 1163 E 40th
Cleveland Stone Co., Hickox bldg
Eclipse Paint & Mfg. Co., Citizens' bldg
Forest City Paint & Varnish Co., 3334 Lake-
side av
Hascall Paint Co., 1348 W 70th
Manhattan Paint Co., 1252 W 70th
McNairy, A. B. & Co., 1163 E 40th
National Paint & Varnish Co., 924 St.
Clair av
Patterson-Sargent Co. ("B. P. S."), 1304
E. 38th
Sherwin-Williams Co., 601 Canal rd N W
Ullman-Philpott Co., 1592 Merwin av, NW
Vaughan Paint Co., Columbus rd & C. C.,
C. & St. L. R. R.

COLUMBUS—Columbus Paint Co. (Groff
Bros., Propts.)
Dean & Barry Co., Locust & Ludlow
Hanna Paint Mfg. Co.
DAYTON—Barrett, Chas. A. P. Co.
Irvin, Jewell & Vinson Co.
Kay & Ess Co., Leo & Kiser
Love Bros. Co., 452 E 3d
FINDLAY—Ohio Paint & Varnish Co.
HAMILTON—Reeder, John S. (Cold Japan)
LOCKLAND—Carey, Philip Mfg. Co.
MARIETTA—Marietta Paint & Color Co.
PLAINVILLE—Ferris, O. J.

TOLEDO—Buckeye Paint & Varnish Co., 719
S 15th
Dolphin White Lead & Color Works, 501
WARREN—Warren Paint Co. Superior
WELLSVILLE—Shoub Paint Mfg. Co.

OREGON.

PORTLAND—Beach, F. E. & Co., 135 1st
Fisher, Thorsen & Co., 160 Front

PENNSYLVANIA.

ALLEGHENY—Eagle Paint & Varnish Works,
225 Grant av
National Lead & Oil Co. (Quick Drying),
Second National Bank bldg
Nevin, T. H. Co., Preble & Island avs
Pittsburg Iron Paint Co., 867 S Canal
Thompson & Co.
Wheeler, Henry & Son, 119 Ohio, W
ALLENTOWN—Allentown Mfg. Co.
Princes' Metallic Paint Co. ("Princes' &
Rutherford's" Dry Metallic, Miners &
Mfrs.)

BETHLEHEM—Bethlehem Paint Co.
Erwin, Henry & Sons (Metallic)
EASTON—Williams, C. K. & Co. (Dry)
ERIE—WATSON, H. F. CO. (See adv.
index & branch offices, end of book)
FRANKLIN—Relsenman Mfg. Co. (Ltd.)
JAMESTOWN—Jamestown Paint & Varnish Co.
JOHNSTOWN—Cambria Paint & Color Co.
LANCASTER—Hawthorne, A. F. & Co.
Lancaster Paint & Glass Co.
Schroeder Paint Co.
MUNCY—Keystone Paint & Filler Co.

PHILADELPHIA—BINSWANGER, B. &
Co., 115 N 4th
Butterworth, C. H. Drug & Paint Co., 62 N
Front

Day Light Coating Co. (Ltd.), 24 S 7th
DIXON, JOS. CRUCIBLE CO. (of Jer-
sey City, N. J.), 1020 Arch. (See adv.
index, end of book)

Felton, Shiley & Co., 140 N 4th
Fibrous Paint Co., Real Estate Trust bldg
Flexible Compound Co., 3607 Haverford
FRENCH, SAMUEL H. & CO., 4th
c Callowhill. (See adv. index, end of book)
Graves, N. Z. Co., 3200 S Broad
Grogan, H. F. & Co., 2113 E Sergeant
Harrison Bros. & Co., 35th & Gray's Ferry
rd
Howell, C. H. & Co., 212 Race
Keystone Albumen & Paint Co. (All
Kinds), Franklin Bank bldg
Lawrence-McFadden Co., 1400 Franklin
Lucas, John & Co., 322 Race
Nice, Eugene E., 272 S 2d

PECORA PAINT CO. (S. Bowen's
Son, Successor), ("Pecora"), 4th st &
Reading R R. (See adv. index, end of
book)

Phoenix Paint & Varnish Co., 124 Market
Protectus Company, North American hldg
Rambo, Theo. G., 981 N 2d

RINALD BROS., 1142 N Hancock,
(See adv. index, end of book)

Sauter, F. W. & Co., 909 N 9th
Schrack, C. & Co., 152 N 4th
Shoemaker, Robert & Co., 201 N 4th

THOMSON, WOOD FINISHING CO.,
115 N 4th. (See adv. index, end of book)

Wetherill, G. D. & Co., 114 N Front
Wetherill, S. P. & Co., Penn Mutual hldg
Wetherill & Bro., S 30th, nr Chestnut
Yarnall Paint Co., Frankford

PITTSBURG—American Cold Japan Co.
(Bridges, Roofs, Stacks, etc.)
American Supply Co., 3200 2d av

DIXON, JOS. CRUCIBLE CO.
(Graphite), Farmers' Bank bldg. (See adv.
index, end of book)

Eagle Paint & Varnish Co., 225 Grant av
Fort Pitt Oil & Paint Co., 3209 Liberty av
Globe Asphalt Co., Bakewell bldg.

Hommel O. Co., 400 Duquesne Way
Iron City Oil & Varnish Co., 808 Inwood &
Franktown av

Lawrence, W. W. & Co., W. Carson
McClintock & Irvine Co., Neville & P. R. R.

NEVIN, T. H. CO., North Side. (See
adv. index, end of book)

Pittsburg Paint Supply Co., 617 Liberty av
Pittsburg Plate Glass Co., Frick bldg.

Sterling Varnish Co. (Varnish), Fulton bldg
Snyder, M. B. Co., 81st & Butler

READING—Morgan Paint Co., 122 Wood
Ruth, B. F. & Co., 216 S 8th
Wilhelm, A. Co., 3d c Bern

SHAMOKIN—Zimmerman, W. S.
SHARPSBURG—Atlas Paint Co., 18th

TULLYTOWN—Tully Paint & Varnish Co.
WILLIAMSPORT—United States Paint Co.

WYOMING—Wyoming Painting & Paint Mfg.
Co.

RHODE ISLAND.

PROVIDENCE—U. S. GUTTA PERCHA Paint Co., 12-30 Dudley. (See adv. index, end of book)
 WILBUR, JOB CO., 12 Dudley. (See adv. index, end of book)

SOUTH CAROLINA.

CHARLESTON—Moore-Leland Paint & Oil Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Paint Co.
 MEMPHIS—Bartholomew Roofing Co., 164 S 2d
 Memphis Dry Color Co., So. Ex. Bldg
 Memphis Paint & Glass Co., 204 Gayoso
 Memphis White Lead Works, B'way av
 True Tagg Paint Co., 442-3 Shelby
 NASHVILLE—Nashville Carbon & Oil Co. ("Durbon" Carbon)
 Nashville Chemical Co.

TEXAS.

GALVESTON—Baulard, V. L. & Co., 215 Tremont.
 HOUSTON—Houston Paint Co.
 Randolph, N. & Sons

VERMONT.

SAXTON'S RIVER—Edson, Starks & Co. (Mineral)

VIRGINIA.

LYNCHBURG—National Paint & Manganese Co. (Ltd)
 NORFOLK—Jenkins Paint & Oil Co.
 Marine Paint Corporation

WASHINGTON.

SEATTLE—McGaha, Wm. P. Co.
 Western Paint Co., 2500 3d av
 SPOKANE—Spokane Paint & Oil Co.
 TACOMA—Pacific Glass & Paint Co.

WEST VIRGINIA.

NEW CUMBERLAND—Paora Paint Co.
 WHEELING—Wilson, W. A. & Sons

WISCONSIN.

GREEN BAY—Henderson, Robt. Paint Co.
 IRON RIDGE—Winters' Metallic Paint Co.
 MILWAUKEE—Ferrubron Metal Paint Co.
 Patton Paint Co.
 Ricketson Mineral Paint Works, 409 Broadway

OSHKOSH—Parker, Ira, & Sons Co.
 STEVENS POINT—Wisconsin Graphite Co.

Paint Mfrs. (Oil)

Carrara Paint Co., Barberton, O.
 Viscol Co. (Mfrs. of Condensed Paint & Varnish Oils), Cambridge, Mass.
 Weatherline Paint Works, 139 Steuben, Brooklyn, N. Y.

Paint Mfrs.' Color Cards

Bradt Mfg. Co., Troy, N. Y.
 Kinsey & Johnston, Cincinnati, O.
 Morrison, Chas. O. (for Mixed Paint, etc.). Office, 363 S Clinton, Chicago, Ill.
 Stocker, J. W., 510 Schubert av, Chicago, Ill.

Paint & Varnish Remover

Amstein, Eugene, 23th & Shields av, Chicago, Ill.
 Ball Chemical Co. ("Ball's"), Pittsburg, Pa.
 Bird, J. A. & W. & Co. ("Mistic"), 34 India, Boston, Mass.
 Boyle, A. S., & Co. ("Varnigo"), 1908 W. 8th, Cincinnati, O.
 Bridgeport Wood Finishing Co., New Milford, Conn.
 Brooklyn Varnish Mfg. Co., 35 Nostrand av, Brooklyn, N. Y.
 Canton Paint & Varnish Co., Canton, O.
 Chicago Wood Finishing Co. ("Elston"), 261 Elston av, Chicago, Ill.
 Detroit White Lead Wks, 532 Milwaukee av, Detroit, Mich.
 Ellis-Chalmers Co. ("Phenold"), 100 William, New York
 Forest City Paint & Varnish Co., Cleveland, O.
 Hatt, Chas. E., Pollsh & Chemical Co., 388 Michigan av., Detroit, Mich.
 Lucas, Jno. & Co., 322 Race, Phila., Pa.
 Michigan Paint Co. ("Se-Tab"), Flint, Mich.

Munson, Clair, Clinton, Ia.
 NEVIN, T. H. CO. North Side, Pittsburg, Pa. (See adv. index, end of book)
 Otley Mfg. Co. ("Eureka," for R. R. Coaches, etc.), 855 Winchester av, Chicago, Ill.
 Parrott Varnish Co., Bridgeport, Conn.
 Sherwin-Williams Co., Cleveland, O.
 Stocker, John W. & Son, 510 W Marianna av, Chicago, Ill.
 Takitof Co. ("Takitof"), 949 Broadway, New York
 Tousey Varnish Co., 279 Dearborn, Chicago, Ill.
 U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Wilson Co., ("Amyllne" Emulsion) 18 B'way, New York, Works, Long Island City, N. Y.
 Woodhouse, Samuel F., Unity & Franklin, Phila., Pa.

Paint Spraying Machines

(See Machinery)

*Painting Sprays (Compressed Air)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Paints (Acid Proof)

Barrett Mfg. Co., Land Title bldg., Phila., Pa.
 Canton Paint & Varnish Co., Canton, O.
 Depew Carbon Paint Co., 1507 N Lincoln, Chicago, Ill.
 DOGGETT, STANLEY, 101 Beekman. (See adv. index, end of book)
 GROSCHE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)
 Hanna Paint Mfg. Co., Columbus, O.
 Maire Paint Co., 242 1st av, Minneapolis, Minn.
 Miller, Clifford L., & Co. ("Minwax"), 110 E. 23d, New York
 NEVIN, T. H. CO. North Side, Pittsburg, Pa. (See adv. index, end of book)
 Riesenman Mfg. Co., Ltd., Franklin, Pa.
 RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)

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rd, Buffalo, N. Y.
Sonneborn, L., Sons (Inc.) ("Amalia"), 262
Pearl, New York
Suydam, M. B. Co., 61st & Butler, Pittsburg, Pa.
Weatherline Paint Works, 139 Steuben, Brook-
lyn, N. Y.
Zibell Damp-Resisting Paint Co., 273 Water,
New York

Paints (Aluminum & Gold)

Aluminum Co. of America (Aluminum
Only), Pittsburg, Pa., & 99 John, New
York
Aluminum Paint & Polish Co., 701 W Lake,
Chicago, Ill.
Akron Mining, Milling & Mfg. Co., Aurora, Ill.
Arnstein, Eugene, 35th & Shields, Chicago, Ill.
BINSWANGER, B. & CO., 115 N. 4th,
Phila., Pa.
Bronze Powder Works, Elizabeth, N. J.
Cullen, F. C. & Co., 704 W Lake, Chicago, Ill.
Detroit White Lead Works, 532 Milwaukee av,
Detroit, Mich.
Engel, Jno. & Co. (Gold), 137 W B'way, New
York
FRENCH, SAM'L H. & CO., 4th and
Callowhill, Phila., Pa. (See adv. index, end
of book)
Gerstendorfer Bros., 231 E 42d, New York
Harlem Roofing & Waterproofing Co., 147 E
125th, New York
Hommel, O. Co., 400 Duquesne Way, Pitts-
burg, Pa.
KAY & ESS CO., Dayton, O.
NEVIN, T. H. CO. North Side, Pitts-
burg, Pa. (See adv. index, end of book)
Sherwin-Williams Co., Cleveland, O.
Wilhelm, A. Co., Reading, Pa.

Paints (Asbestos)

Acme White Lead & Color Works, Detroit,
Mich.
Barrett Mfg. Co., Land Title bldg., Phila.,
Pa.
Carey, Philip Mfg. Co., Lockland, O.
Casein Co. of America (Indurilne), Bellows
Falls, Vt.
Ehret Magnesia Mfg. Co., Land Title bldg.,
Phila., Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York

NEVIN, T. H. CO. North Side, Pitts-
burg, Pa. (See adv. index, end of book)
Oil City Asbestos Co., Oil City, Pa.
Patton Paint Co., Milwaukee, Wis.
Sall Mountain Asbestos Mfg. Co., 68 S Canal,
Chicago, Ill.
WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)

Paints (Asphalt)

Acme White Lead & Color Works, Detroit,
Mich.
American Supply Co. (Asphaltum), 960 2d av,
Pittsburg, Pa.
American Supply Co., 13 Eddy, Providence, R. I.
Asphaltum & Rubber Co., Woman's Temple,
Chicago, Ill.
Barber Asphalt Paving Co. ("Titekote"),
Phila., Pa.
Barrett Mfg. Co., Land Title bldg. Phila.,
Pa.
Cromwell-Walker Co., Harrison, N. J.
Densmore-Stabler Refining Co., Los Angeles, Cal.
Forest City Paint & Varnish Co., Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
Globe Asphalt Co., Bakewell bldg, Pittsburg,
Graham Paper Co. ("Martha" Jobbers), St.
Louis, Mo.
GROSCHKE, BRUNO & CO., 13 Jones
la, New York. (See adv. index, end of
book)
INDIAN REFINING CO., Cincinnati,
O. (See adv. index, end of book)
Indian Refining Co., Cincinnati, O.
Kay & Ess Co., Dayton, O.
McClintock & Irvine Co., Pittsburg, Pa.
National Paint Works, Williamsport, Pa., &
100 William, New York
Patent Vulcanite Roofing Co. ("Vulcanite"),
625 S Campbell av, Chicago, Ill.
Patton Paint Co., Milwaukee, Wls.
Schillinger Bros. Co., Toledo, O.
Southern Refining Co., Los Angeles, Cal.
Southern Roofing Co. (Roof), Atlanta, Ga.
Stickney, J. W., 64 Broad, Boston, Mass.
Stowell Mfg. Co., Jersey City, N. J.
Trinidad Asphalt Mfg. Co., 320 S 21st, St.
Louis, Mo.
Weatherline Paint Works, 139 Steuben, Brook-
lyn, N. Y.

Paints (Asphaltum)

Ajax Paint Co. ("Woodpecker"), Indianapolis,
Ind.
American Asphaltum & Rubber Co., Women's
Temple, Chicago, Ill.
Cambria Paint & Color Co. (Ltd.), Johnstown,
Pa.
Canton Paint & Varnish Co., Canton, O.
Detroit White Lead Works, Detroit, Mich.
DOGGETT, STANLEY, 101 Beekman, New
York. (See adv. index, end of book)
Eagle Paint & Varnish Co., Pittsburg, Pa.
FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index,
end of book)
GROSCHKE, BRUNO & CO., 13 Jones
la, New York. (See adv. index, end of
book)
Kay & Ess Co., Dayton, O.
McClintock & Irvine Co., Pittsburg, Pa.
NEVIN, T. H. CO. North Side, Pitts-
burg, Pa. (See adv. index, end of book)
Otley Mfg. Co. ("Eureka"), 855 N Winchester
av, Chicago, Ill.
Riesman Mfg. Co., Franklin, Mass.
Thompson & Co., Allegheny, Pa.
Walker Chemical Works, Harrison, N. J.
Weatherline Paint Works, 139 Steuben, Brook-
lyn, N. Y.

Paints (Barrel)

Bulls Head Oil Works, San Francisco, Cal.
FRENCH, SAM'L H. & CO., 4th & Cal-
lowhill, Phila., Pa. (See adv. index, end
of book)
Forest City Paint & Varnish Co., Cleveland, O.
Heller & Merz Co., 22 Cliff, New York
Lucas, Jno. & Co., 322 Race, Phila., Pa.
NEVIN, T. H. CO. North Side, Pitts-
burg, Pa. (See adv. index, end of book)
Weatherline Paint Works, 139 Steuben, Brook-
lyn, N. Y.

*Paints (Bath-Tub)

(See also Enamels, Bath-Tub)

NEVIN, T. H. CO. North Side, Pitts-
burg, Pa. (See adv. index, end of book)

*Paints (Blackboard)

NEVIN, T. H. CO. North Side, Pitts-
burg, Pa. (See adv. index, end of book)



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Paints (Brick)

Allentown Mfg. Co., Allentown, Pa.
 Burns, O. L., 156 5th av, New York
FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end
 of book)
 Hanna Paint Mfg. Co., Columbus, O.
 Lucas, Jno. & Co., 322 Race, Phila., Pa.
NEVIN, T. H. CO. North Side, Pitts-
 burg, Pa. (See adv. index, end of book)
RINALD BROS., 1142 N. Hancock, Phila.,
 Pa. (See adv. index, end of book)
 Weatherline Paint Works, 139 Steuben, Brook-
 lyn, N. Y.

Paints (Bridge)

(See Paints for Coating & Preserving Iron &
 Steel)

Paints (Carbon)

Alexander Bros., 10 N 2d, Phila., Pa.
 Hascall Paint Co., Cleveland, O.
 Mamolith Carbon Paint Co., 2d & Main,
 Cincinnati, Ohio
NEVIN, T. H. CO. North Side, Pitts-
 burg, Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
 Weatherline Paint Works, 139 Steuben, Brook-
 lyn, N. Y.

Paints (Cement)

AMERICAN CONCRETE CO., 80 William,
 New York. (See adv. index, end of book)
 Burns, O. L., 156 5th av, New York
 Weatherline Paint Works, 139 Steuben, Brook-
 lyn, N. Y.

Paints (Cold Japan)

American Cold Japan Co. (Bridges, Roofs,
 Stacks, etc.), Pittsburgh, Pa.

Paints (Cold Water)

Acme White Lead & Color Works, Detroit,
 Arlington Mfg. Co., Canton, O. Mich.
 Bird, J. A. & W. & Co. ("Magnite"), 34 India,
 Boston, Mass.
 Columbia Refining Co. ("Aqualite" Fire &
 Weatherproof; also "Muraltint" & "Hygi-
 en"), 90 West, New York
 Connors, Wm. Paint Mfg. Co., Troy, N. Y.
 Fox, M. Ewing & Co., 240 E. 136th, New
 York
FRENCH, SAM'L H. & CO., 4th & Callow-
 hill, Phila., Pa. (See adv. index, end of
 book)
 Hainbach, Bernard, Providence, R. I.
 Hardie Mfg. Co. ("Stay There" Fire & Wa-
 terproof), Hudson, Mich.
 Harlem Roofing & Waterproofing Co., 147 E
 125th, New York
 Horn, A. C., Co., 8 Burling slip, New York
 King Paint Mfg. Co. ("King's"), 27 Dunham pl.
 Lucas, Jno. & Co., 322 Race, Philadelphia, Pa.
 Manhattan Color Works ("Tem-Po-va"), 197
 Amsterdam av, New York
 Muralo Company, New Brighton, Borough
 of Richmond, New York

Murphy, Chas. J. & Co., 332 N Calvert, Bal-
 timore, Md.
 Paragon Plaster Co., Syracuse, N. Y.
 Semple, Frank G., Bethlehem, Pa.
 Starks, Edson & Co., Saxtons River, Vt.
 Troy Cold Water Kalsomine Co. (Klark's
 XX Kold Water), Troy, N. Y.
 United States Gypsum Co. (Alabaster Fire-
 proof) 184 La Salle, Chicago, Ill.
 Whittaker, W. H., 245 Front, New York
 Wilhelm, A. Co., Reading, Pa.
 Winn, Wm. R. ("Winn"), 143 Maiden la, New
 York

Paints (Copper)

(See also Paints, Marine)

Baltimore Copper Paint Co., Baltimore, Md.
 Briggs, John, & Co. ("Challenge" Ready
 Mixed), Boston, Mass.
CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index,
 end of book)
 Devoe, F. W. & C. T. Reynolds Co., 101 Ful-
 ton, New York
FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv index, end
 of book)
 Henderson & Johnson, Gloucester, Mass.
 Howell, C. H. & Co., 212 Race, Phila., Pa.
 Kuhls, H. B. Fred ("Elastic"), 719 3d av,
 Brooklyn, N. Y.
 Longman & Martinez, 207 Pearl, New York
 Lucas, Jno. & Co., 322 Race, Phila., Pa.
 New Jersey Paint Works (Louderbough, Hy.,
 Prop.), Wayne & Fremont, Jersey City, N. J.
 Pierce, F. O., Co., 12 W. B'way, New York
 Sherwin-Williams Co., Cleveland, O.
 Tarr, Jas. H. (Marine), Gloucester, Mass.
 Tarr & Wonson, Gloucester, Mass.
 Weatherline Paint Works, 139 Steuben, Brook-
 lyn, N. Y.
 Williams, Samuel J., 181 South, New York
 Woolsey, C. A. Paint & Color Co., Jersey
 City, N. J.

Paints (Damp Resisting)

(See also Waterproofing Materials)

Arlington Mfg. Co., Canton, O.
 Canton Paint & Varnish Co., Canton, Ohio
 Feigel, M. & Bro. ("D. R. P."), 80 W
 Houston, New York
FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end of
 book)
GROSCHKE, BRUNO, & CO., 13 Jones Lane,
 New York. (See adv. index, end of
 book)
 Hanna Paint Mfg. Co., Columbus, O.
 Horn, A. C., Co., 8 Burling slip, New York
 Lehon Co., W 43d & Lincoln, Chicago, Ill.
 Miller, Clifford L. & Co. ("Minwar"), 110 E
 23d, New York
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
 Toch Bros. ("R. I. W."), 320 5th av, New York
U. S. GUTTA PERCHA PAINT CO., 12-30
 Dudley, Providence, R. I. (See adv. in-
 dex, end of book)
 Universal Compound Co., 449 W 28th, New York
 Weatherline Paint Works, 139 Steuben, Brook-
 lyn, N. Y.
 Zibell Damp-Resisting Paint Co. 273 Water,
 New York

Paints (Dipping)

Canton Paint & Varnish Co., Canton, Ohio
 Detroit White Lead Works, Detroit, Mich.
FRENCH, SAM'L H. & CO., 4th & Cal-
 lowhill, Phila., Pa. (See adv. index, end of
 book)
GROSCHKE, BRUNO, & CO., 13 Jones Lane,
 New York. (See adv. index, end of book)
 McClintock & Irvine Co., Pittsburgh, Pa.
 McLennan Paint Co. (Ltd.), Detroit, Mich.
NEVIN, T. H. CO., North Side, Pittsburgh,
 Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock,
 Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
THOMSON WOOD FINISHING CO., 115 N.
 4th, Phila., Pa. (See adv. index, end of
 book)
 Walker Chemical Works, Harrison, N. J.
 Weatherline Paint Works, 139 Steuben, Brook-
 lyn, N. Y.

Paints (Enamel)

(See Enamels)

***Paints (English Bath Enamel
& Porcelain)**

RINALD BROS., 1142 N. HANCOCK,
 Phila., Pa. (See adv. index, end of book)

Paints (Fire Resisting)

Acme White Lead & Color Wks., Detroit, Mich.
 Akron Mining, Milling & Mfg. Co., Aurora, Ill.
 American Insulating Material Mfg. Co., Alex-
 andria, Ind.
 Arlington Mfg. Co., Canton, O.
 Atlantic Refining Co., Citizens bldg., Cleve-
 land, Ohio
 Barrett Mfg. Co., Land Title bldg., Phila.,
 Pa.
CABOT, SAMUEL 141 Milk, Boston,
 Mass., & 28 Dearborn av, Chicago, Ill. (See
 adv. index & branch offices, end of book)
 Canton Paint & Varnish Co., Canton, O.
 Detroit Graphite Co., Detroit, Mich.
 Eberson, A. A. & Co., 2000 Pine, St. Louis,
 Mo.
 Firelight Paint Co. ("Firelight"), Pittsburgh, Pa.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
 Fox, M. Ewing & Co. (Permanite), 136th &
 Rider av, New York
 Gould Gibraltar Paint Co. ("Gibraltar"), 32
 Union sq., New York
 Hanna Paint Mfg. Co., Columbus, O.
 International Steel Post Co., 719 Chestnut, St.
 Louis, Mo.
 Lucas, John & Co., 322 Race, Philadelphia,
 Maire Paint Co., Minneapolis, Minn. Pa.
NEVIN, T. H. CO., North Side, Pittsburgh,
 Pa. (See adv. index, end of book)
 Nubian Paint & Varnish Co., 51st av c Bloom-
 ingdale av, Chicago, Ill.
 Patterson, Sargent Co., Cleveland, O.
 Patton Paint Co., Milwaukee, Wis.
PECORA PAINT CO., (S. Bowen's
 Son, Successor), 4th st & Reading R R,
 Phila., Pa. (See adv. index, end of book)
 Republic Railway Appliance Co., St. Louis, Mo.
 Stowell Mfg. Co., Jersey City, N. J.
 Suydam, M. B. Co., Pittsburgh, Pa.
 Weatherline Paint Works, 139 Steuben, Brook-
 lyn, N. Y.

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 Alcatraz Asphalt Paint Co. (Asphalt), Richmond, Va.
 Allen Anti-Rust Paint Co., Cincinnati, O.
 American Asphaltum & Rubber Co., Chicago, Ill.
 American Bitumastic Enamel Co. (Bitumastic Enamels & Paints), 311½ Walnut, Phila., Pa.
 American Bridge & Structural Preserving Co., 16 State, Boston, Mass.
 American Graphite Co. ("Graphault"), William-son bldg., Cleveland, O.
 Arlington Mfg. Co. ("Carbonelastic" Coating), Canton, O.
 Armitage Mfg. Co., Richmond, Va.
 Atlantic Refining Co., Cleveland, O.
 Barrett Mfg. Co. ("Monitor" Metal), Land Title bldg., Phila., Pa.
 Billings-Chapin Co., Cleveland, O.
 Billings, King & Co., 438 Pearl, New York, & 153 Congress, Boston, Mass.
 Blood, T. L. & Co., St. Paul, Minn.
 Buckeye Paint & Varnish Co., Toledo, O.
 Burgess, Fobes & Co., Portland, Me.
 Cambria Paint & Color Co. (Ltd.), Johnstown, Pa.
 Canton Paint & Varnish Co., Canton, O.
 Carrara Paint Co., Barberton, O.
 Chatfield Mfg. Co. ("Carbo" Black Enamel), Carthage, O.
 Chattanooga Paint Co., Chattanooga, Tenn.
 Chilton Paint Co., 100 William, New York
 Clinton Metallic Paint Co., Clinton, N. Y.
 Connors, Wm. Paint Mfg. Co., Troy, N. Y.
 Cromwell-Walker Co., Harrison, N. J.
 Depew Carbon Paint Co., 1507 N. Lincoln, Chicago, Ill.
 Detroit Graphite Co., Detroit, Mich.
 Detroit White Lead Works, Detroit, Mich.
DIXON, JOS. CRUCIBLE CO. ("Dixon's" Silica Graphite for Metal, also for Wood), Jersey City, N. J. (See adv. index & branch offices, end of book)
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Eagle Paint & Varnish Co., Pittsburgh, Pa.
 Elko Paint Co. (Anti-Corrosive Mineral Oxide), Randolph, N. Y.
 Feigel, M. & Bro., 50 W. Houston, New York
 Felton, Sibley & Co., 140 N. 4th, Phila., Pa.
 Ferrubron Metal Paint Co., Milwaukee, Wis.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Frontier Mineral Paint Co., Detroit, Mich.
 Garry Iron & Steel Co., Cleveland, O.
 Glidden Varnish Co., Cleveland, O.
 Goheen Mfg. Co. ("Galvanum"), Canton, O.
 Gould Gibraltar Paint Co. ("Gibraltar"), 32 Union sq., New York
GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)
 Hammond-Boynton Paint & Chemical Co. ("Ferox" Iron Oxide), Norwich, Conn.
 Hanna Paint Mfg. Co., Columbus, Ohio
 Harlem Roofing & Waterproofing Co., 147 E. 125th, New York
 Harrison Bros. & Co., 35th & Grays Ferry rd., Phila., Pa.
 Heath & Milligan Mfg. Co., 170 Randolph, Chicago, Ill.
 Ironsides Co., The Wyandotte, Columbus, Ohio
 Jarrait Paint & Enamel Co., 92 Griswold, Detroit, Mich.

Jenkins Paint & Oil Co., Norfolk, Va.
 Johnson Compound & Supply Co. ("Sumac"), Rochester, N. Y.
 Kay & Ess Co., Dayton, Ohio
 Keystone Albumen & Paint Co., Franklin Bank bldg., Philadelphia, Pa.
 Keystone Paint & Filler Co., Muncy, Pa.
 Lawrence, W. W. & Co., Pittsburgh, Pa.
 Long, Chas. R., J., Co., Louisville, Ky.
 Lowe Bros. Co., Dayton, O.
 Lucas, John & Co., 322 Race, Phila., Pa.
 McClintock & Irvine Co., Pittsburgh, Pa.
 McNaughton, Wm. D., 185 Oakland, Brooklyn, N. Y.
 McLennan Paint Co., Ltd., Detroit, Mich.
 Maire Paint Co., Minneapolis, Minn.
 Mamolith Carbon Paint Co., Cincinnati, Ohio
 Michigan Paint Co., Flint, Mich.
 Miller, Clifford L. & Co. ("Minwax"), 110 E. 23d, New York
 Mohawk Paint & Chemical Co. ("Ferox" Iron Oxide), Norwich, Conn.
 Nashville Carbon & Oil Co. ("Durbon" Carbon), Nashville, Tenn.
 National Paint Works, Williamsport, Pa., & 100 William, New York
NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
 Newcastle Paint & Varnish Co., Newcastle, Pa.
 Otley Mfg. Co. ("Eureka" Graphite, etc.), 855 N. Winchester av., Chicago, Ill.
 Patterson-Sargent Co. ("B. P. S." & "Nob-rac"), 1304 E. 38th, Cleveland, O., Chicago & New York
 Patton Paint Co., Milwaukee, Wis.
PECORA PAINT CO., (S. Bowen's Son, Successor), ("Pecora"), 4th st & Reading R R, Phila., Pa. (See adv. index, end of book)
 Penna. Standard Rubber Paint Co., West End Phila., Pa.
 Popplein, G. & N. Jr., 220 North Baltimore, Md.
 Preservative Products Co. ("Eco"), 1133 B'way, New York
 Prince Mfg. Co., 2 Cliff, New York
 Prince's Metallic Paint Co., Allentown, Pa.
 Protectus Co., North American bldg., Phila., Pa.
 Reeder, Jno. S. (Cold Japan), Hamilton, O.
 Ricketson Mineral Paint Works, 404 B'way, Milwaukee, Wis.
 Reisenman Mfg. Co. (Ltd.), (High Heat), Franklin, Pa.
RINALD BROS. (Bessemer Paints), 1142 N. Hancock, Phila., Pa. (See adv. index, end of book)
 Rossie Iron Ore Paint Co., Ogdensburg, N. Y.
 St. Louis Surfact & Paint Co. ("Metal-steel"), 26 S. Commercial, St. Louis, Mo.
 Schoellkopf, Hartford & Hanna Co., Abbott rd., Buffalo, N. Y.
 Sherwin-Williams Co., Cleveland, O.
 Smith, Edw. & Co., 141 B'way, New York
 Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York
 Standard Paint Co. (Flexite), 100 William, New York
 Stickney, J. W., 64 Broad, Boston, Mass.
 Stowell Mfg. Co., Jersey City, N. J.
 Suydam, M. B. Co., Pittsburgh, Pa.
 Swift Paint Co. ("Black Giant," Front End Enamel), Wade bldg., Cleveland, Ohio
 Thompson & Co. ("Diamond"), Pittsburgh, Pa.
 Toch Bros. (R. I. W.), 320 5th av., New York
U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 United States Paint Co., Williamsport, Pa.
 Vacuum Varnish & Chemical Co., E. Norwalk, Conn.
 Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.
 Wadsworth-Howland & Co. (Inc.), Boston, Mass.
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

Paints (Gold)

(See Paints, Aluminum & Gold)

Paints (Graphite)

Acme White Lead & Color Works, Detroit, Mich.
 Akron Mining, Milling & Mfg. Co., Aurora, Ill.
 American Graphite Co. ("Graphault"), William-son bldg., Cleveland, Ohio
 Arlington Mfg. Co., Canton, O.
BINSWANGER, B. & CO., 115 N. 4th, Phila., Pa.
 Blood, T. L. & Co., St. Paul, Minn.
 Buckeye Paint & Varnish Co., Toledo, O.
 Cambria Paint & Color Co. (Ltd.), Johnstown, Pa.
 Canton Paint & Varnish Co., Canton, O.
 Columbia Refining Co. ("Metalite"), 90 West, New York
 Detroit Graphite Co., 10 12th, Detroit, Mich.
 Detroit White Lead Works, Detroit, Mich.
DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)
 Elko Paint Co. ("Elko XX" Enamel), Randolph, N. Y.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Goheen Mfg. Co., Canton, Ohio
 Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd., Philadelphia, Pa.
 Holmes Fibre Graphite Mfg. Co., 5135 Wakefield, Gtn., Phila., Pa.
 Lawrence, W. W. & Co., Pittsburgh, Pa.
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
 McLennan Paint Co. (Ltd.), Detroit, Mich.
 Michigan Paint Co., Flint, Mich.
MILWAUKEE CORRUGATING CO. (Jobbers), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 National Paint Works, Williamsport, Pa., & 100 William, New York
NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
 North American Graphite Paint Co. ("Imperial"), Detroit, Mich.
 Otley Mfg. Co. (Mixed in Oil), 855 N. Winchester av., Chicago, Ill.
 Reisenman Mfg. Co. (Ltd.), Franklin, Pa.
RINALD BROS., 1142 N. Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
 Standard Graphite Co., 11 B'way, New York
 Suydam, M. B. Co., Pittsburgh, Pa.
 Thompson & Co., Pittsburgh, Pa.
 United States Graphite Co., Saginaw, Mich.
 United States Paint Co., Williamsport, Pa.
 Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

Paints (Heat Resisting)

(See Paints, Fire Resisting)

Paints (Insulating)

(See also Insulating Varnish)

Acme White Lead & Color Works, Detroit, Mich.
 American Insulating Material Mfg. Co. (Sawyers' Polar Brand), Alexandria, Ind.
 Barrett Mfg. Co., Land Title bldg., Phila., Pa.
 Bradford Belting Co., 28 Dey, New York, & 2d & Walnut, Cincinnati, O.
 Canton Paint & Varnish Co., Canton, O.
 Depew Carbon Paint Co., 1507 N. Lincoln, Chicago, Ill.

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PAINT MAKERS — — — PITTSBURGH, PA.

Dielectric Mfg. Co., St. Louis, Mo.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.
Hanna Paint Mfg. Co., Columbus, Ohio
Lehon Company, W 43d & Lincoln, Chicago, Ill.

Massachusetts Chemical Co., Walpole, Mass.
NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)
Paragon Insulating Co., Cleveland, O.
Patent Vulcaulte Roofing Co. ("Elite" & Mineral Compound), 625 S Campbell av, Chicago, Ill.
Protectus Co., Phila., Pa.
Sherwin-Williams Co., Cleveland, O.
Standard Paint Co. ("P. & B."), 100 William, New York

Sterling Varnish Co. (Varnish), Pittsburg, Pa.
Suydam, M. B. Co., 61st & Butler, Pittsburg, Pa.
Toch Bros., 320 5th av, New York, Pa.

U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Weatherline Paint Works, 139 Steuben, Brooklyn, N. Y.

Paints (Iron Oxide)

Acme White Lead & Color Works, Detroit, Mich.
Allentown Mfg. Co., Allentown, Pa.

Arlington Mfg. Co., Canton, O.

BINSWANGER, B. & CO., ("Sana-loid"), 115 N 4th, Phila., Pa.

Canton Paint & Varnish Co., Canton, O.

Fort Pitt Oil & Paint Co., Pittsburg, Pa.

Forest City Paint & Varnish Co., Cleveland, O.

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Gohcen Mfg. Co., Canton, O.

Hammond-Boynton Paint & Chemical Co. ("Ferox"), Norwich, Conn.

Hanna Paint Mfg. Co., Columbus, O.

Ulsley, Doubleday & Co., 229 Front, New York

Jamestown Paint & Varnish Co., Jamestown, Pa.

Kay & Ess Co., Dayton, O.

Lucas, John & Co., 322 Race, Phila., Pa.

McClintock & Irvine Co., Pittsburg, Pa.

McLennan Paint Co., Detroit, Mich.

National Paint Works, Williamsport, Pa., & 100 William, New York

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

Patton Paint Co., Milwaukee, Wis.

Pittsburg Iron Paint Co., Pittsburg, Pa.

Rieseman Mfg. Co. (Ltd.), Franklin, Pa.

Rossie Iron Ore Paint Co., Ogdensburg, N. Y.

Sherwin-Williams Co., Cleveland, O.

Suydam, M. B. Co., Pittsburg, Pa.

U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

United States Paint Co., Williamsport, Pa.

Weatherline Paint Works, 139 Steuben, Brooklyn, N. Y.

Wilhelm, A. Co., Reading, Pa.

Paints (Japanese Gold)

Gerstendorfer Bros., 231 E 42d, New York

Paints (Locomotive)

GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

Weatherline Paint Works, 139 Steuben, Brooklyn, N. Y.

*Paints (Machinery)

(See also Paints for Coating & Preserving Iron & Steel)

BINSWANGER, B. & CO., 115 N 4th, Philadelphia, Pa.

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

PECORA PAINT CO. (S. Bowen's Son, Successors), 4th st & Reading R R, Phila., Pa. (See adv. index, end of book)

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)

U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Paints (Marble Enamel)

Menzel, Wm. & Son, 64 Broad, New York

Paints (Marine)

(See also Paints, Copper)

Allentown Mfg. Co., Allentown, Pa.

Arlington Mfg. Co., Canton, O.

Berry Bros. (Ltd.), Detroit, Mich.

BINSWANGER, B. & CO., 115 N. 4th, Phila., Pa.

Canton Paint & Varnish Co., Canton, O.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Chilton Paint Co., 100 William, New York

Crockett, D. B. Co., Bridgeport, Conn.

Devoe, F. W. & C. T. Reynolds Co., 107 Fulton, New York

Eureka Chemical Co., Newark, N. J.

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)

Hammond-Boynton Paint & Chemical Co. ("Ferox" "Iron Oxide"), Norwich, Conn.

Gardiner, Geo. N. & Son ("Am. McInnes"), 15 William, New York

Glidden Varnish Co., Cleveland, O.

Hoizapfel's Am. Compositions Co., 18 B'way, New York

Keystone Alumen & Paint Co., Franklin Bank bldg, Phila., Pa.

Kuhls, H. B. Fred ("Elastic" Copper, Anti-Fouling, etc.), 719 3d av, Brooklyn, N. Y.

Lane & De Groot Co., 17 Battery pl., New York

Lucas, John & Co., 322 Race, Phila., Pa.

Mamolith Carbon Paint Co., Cincinnati, O.

Nansen's Composition & Paint Co., 116 Broad, New York

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

New Jersey Paint Works (Louderbough, Hy., Prop.), (Motor Boat), Jersey City, N. J.

Protectus Co., Phila., Pa.

Rahtjen's Am. Composition Co., 1 B'way, New York

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)

Standard Varnish Works, 29 B'way, New York

Sherwin-Williams Co., Cleveland, O.

Sonneborn, L. & Sons (Inc.) ("Amalla"), 262 Pearl, New York

Tarr, Jas. H. (Copper & Iron), Gloucester, Mass.

Tarr & Wonsen, Gloucester, Mass.

Toch Bros. ("R. I. W."), 320 5th av, New York

THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)

U. S. GUTTA PERCHA PAINT CO. ("Pitts" Bristol Green Anti-Fouling, etc.), 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Weatherline Paint Works, 139 Steuben, Brooklyn, N. Y.

Williams, Samuel J. (Anti-Corrosive Compound), 181 South, New York

Winn, Wm. R. (Spar, etc.), 143 Maiden la, New York

Paints (Metal Protecting)

(See Paints for Coating & Preserving Iron & Steel; also Paints, Iron Oxide; also Paints, Graphite)

*Paints (Metal Shingle)

(See also Shingle Stains)

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

Paints (Mixed for Export)

Briggs, John, & Co., Boston, Mass.

Carrara Paint Co., Barberton, O.

Detroit Refining Co., Majestic bldg, Detroit, Mich.

Eagle Paint & Varnish Co., Pittsburg, Pa.

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

King Paint Mfg. Co., 27 Dunham pl, Brooklyn, N. Y.

National Carbon Paint Co., Freeport, Ill.

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)

Sherwin-Williams Co., Cleveland, O.

Weatherline Paint Works, 139 Steuben, Brooklyn, N. Y.

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PHILADELPHIA.

Paints (Oil)

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Muralo Company, New Brighton, Borough of Richmond, New York
NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
 Raritan Paint Co., New Brighton, Borough of Richmond, New York, & 10 Wall, New York

*Paints (Porcelain Enamel)

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)

*Paints (Rail Bonding)

AMERICAN STEEL & WIRE CO. (Lever or Electric Motor, Single, Double & Triple Spindle), Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

*Paints (Railway Signal)

NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)

Paints (Roofing)

Acme White Lead & Color Works, Detroit, Mich.
 Akron Mining, Milling & Mfg. Co., Aurora, Ill.
 Allen Anti-Rust Mfg. Co., Cincinnati, O.
 American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
 American Elastic Roof Paint Co., New London, Conn.
 American Graphite Co. ("Graphault"), Williamson bldg., Cleveland, O.
 American Supply Co., 960 2d av., Pittsburgh, Pa.
 American Supply Co., Providence, R. I.
 Arlington Mfg. Co., Canton, O.
 Armitage Mfg. Co., 3200 Williamsburg av., Richmond, Va.
 Asphalt Roofing Co. ("Wanigas"), Saginaw, Mich.
 Atlantic Refining Co., Citizens' Bldg., Cleveland, O.
 Barrett Mfg. Co., Land Title bldg., Phila., Pa.
 Billings-Chapin Co., Cleveland, O.
 Billings, King & Co., 438 Pearl, New York, & 153 Congress, Boston, Mass.
BINSWANGER, B. & CO., 115 N. 4th, Phila., Pa.
 Bradford, James Co., 6 E 3d, Wilmington, Del.
 Buckeye Paint & Varnish Co., Toledo, O.
 Cambria Paint & Color Co., (Ltd.), Johnstown, Pa.
 Canton Paint & Varnish Co., Canton, O.
 Carrara Paint Co., Barborton, O.
 Chattanooga Paint Co., Chattanooga, Tenn.
 Chilton Paint Co., 100 William, New York
 Cleveland Iron Ore Paint Co., Cleveland, O.
 Columbus Paint Co. (Groff Bros., Proptrs.) ("Egyptian"), Columbus, Ohio
 Corners, Wm. Paint Mfg. Co., Troy, N. Y.
 Continental Paint & Mfg. Co. ("Rockalite"), Cleveland, O.
 Detroit Refining Co., Detroit, Mich.
 Devoe, F. W. & C. T. Reynolds Co., 103 Fulton, New York & Chicago, Ill.
 Elko Paint Co. (Enamel Oxide), Randolph, N. Y.
 Felton, Sibley & Co., 140 N. 4th, Phila., Pa.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
 Fox Elastic Paint Co., Camden, N. J.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 General Roofing Mfg. Co., East St. Louis, Ill.
 Globe Oil Co., Rose bldg., Cleveland, Ohio
 Goheen Mfg. Co., Canton, O.
 Gould Gibraltar Paint Co., 32 Union sq., New York
GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)
 Hanna Paint Mfg. Co., Columbus, O.
 Hammond-Boynton Paint & Chemical Co. ("Ferrox" Iron Oxide), Norwich, Conn.
 Hascall Paint Co., Cleveland, Ohio
 Hawthorn, A. F. Roof Paint Co., Lancaster, Pa.
 Heath & Milligan Mfg. Co., 170 Randolph, Chicago, Ill.
 Howell, Chas. H. & Co., 212 Race, Phila., Pa.

Isley, Doubleday & Co., 229 Front, New York
 Ironsides Co., The Wyandotte, Columbus, O.
 Japan Elastic Roof Paint Mfg. Co. ("Japan Elastic"), Memphis, Tenn.

Key & Ess Co., Dayton, Ohio
 Keystone Paint & Filler Co., Muncy, Pa.
 Lawrence-McFadden Co., 1400 Franklin, Phila., Pa.
 Lawrence, W. W. & Co., Pittsburgh, Pa.
 Lehon Co., W 43d & Lincoln, Chicago, Ill.
 Longman & Martinez, 207 Pearl, New York
 Lucas, John & Co., 322 Race, Phila., Pa.
 McClintock & Irvine Co., Pittsburgh, Pa.
 Maire Paint Co., Minneapolis, Minn.
 Mammoth Carbon Paint Co., Cincinnati, O.
 Martin Co., 192 Water, New York
 Mephram, G. S. & Co., East St. Louis, Ill.
 Miller, Clifford L. & Co. ("Minwax"), 110 E. 23d, New York

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Morgan, H. B., Co. ("Morgan's" Elastic), Grand Crossing, Chicago, Ill.
 Nashville Carbon & Oil Co. ("Durbron"), Nashville, Tenn.
 National Paint Works, Williamsport, Pa., & 100 William, New York

NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
 N. Y. Roof Paint Co., 100 Williams, New York
 Patterson-Sargent & Co., Cleveland, O.
 Patton Paint Co. (Asbestos), Milwaukee, Wis.
PECORA PAINT CO. (S. Bowen's Son, Successor), ("Pecora"), 4th st & Reading R R, Phila., Pa. (See adv. index, end of book)

Pittsburg Iron Paint Co., Allegheny, Pa.
 Prince Mfg. Co., 2 Cliff, New York
 Reeder, Jno. S. (Cold Japan), Hamilton, O.
 Ricketson Mineral Paint Works (Iron Ore), 404 B'way, Milwaukee, Wis.

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Rossie Iron Ore Paint Co., Ogdensburg, N. Y.
 Sample, Frank G., Bethlehem, Pa.
 Sherwin-Williams Co., Cleveland, O.
 Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York
 Standard Paint Co., 100 William, New York
 Star Varnish Co., Cleveland, Ohio
 Stewart, W. H. Mfg. Co., 81 Fulton, New York
 Stowell Mfg. Co., Jersey City, N. J.
 Suydam, M. B. Co., Pittsburgh, Pa.
 Ullmann-Philpott Co., Cleveland, O.
 U. S. Graphite Co., Saginaw, Mich.

U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 U. S. Paint Co., Williamsport, Pa.
 Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.
 Wadsworth, Howland & Co. (Inc.), Boston, Mass.
 Walker Chemical Works, Harrison, N. J.
WATSON, H. F. CO. (Asbestos), Erie, Pa. (See adv. index & branch offices, end of book)
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
 Wilhelm, A. Co., Reading, Pa.
 Woolsey, C. A. Paint & Color Co., Merseles & Colden, Jersey City, N. J.

Paints (Rust Proof)

Acme White Lead & Color Works, Detroit, Mich.
 Akron Mining, Milling & Mfg. Co., Aurora, Ill.
 Allen Anti-Rust Mfg. Co., 5th & Race, Cincinnati, O.
 Arlington Mfg. Co., Canton, O.
 Barrett Mfg. Co., Land Title bldg., Phila., Pa.
 Canton Paint & Varnish Co., Canton, O.
 Chatfield Mfg. Co. ("Carbo" Black Enamel), Carthage, O.
 Depew Carbon Paint Co., 1507 N Lincoln, Chicago, Ill.
 Detroit Graphite Co., Detroit, Mich.
 Dielectric Co. of Am. ("W. D. Paint"), Belleville, N. J.
 Forest City Paint & Varnish Co., Cleveland, O.
 Fort Pitt Oil & Paint Co., Pittsburgh, Pa.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
 Good Paint Co. ("Carbonall"), 225 Dearborn, Chicago, Ill.
GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)
 Hanna Paint Mfg. Co., Columbus, Ohio
 Lino Paint Co., Collinwood, O.
 Lucas, John & Co., 322 Race, Phila., Pa.
 McLennan Paint Co., Detroit, Mich.
 Maire Paint Co., Minneapolis, Minn.
 Miller, Clifford L. & Co., 110 E. 23d, New York

Nashville Carbon & Oil Co. ("Durbron" Carbon), Nashville, Tenn.
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York
 Suydam, M. B. Co., Pittsburgh, Pa.
 Toch Bros. ("R. I. W."), 320 5th av., New York

U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
 Zihell Damp Resisting Paint Co., 273 Water, New York

*Paints ("Sanaloid," Paste)

SANALOID (For Interior White), 930 N. 3d, Phila., Pa.

Paints (Shingle)

(See Shingle Stains)

Paints (Silica Graphite)

DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

Paints (Smokestack)

(See Paints, Fire Resisting)

Paints (Steam-Proof)

Acme White Lead & Color Works, Detroit, Mich.
 Arlington Mfg. Co., Canton, Ohio
 Barrett Mfg. Co., Land Title bldg., Phila., Pa.
 Buckeye Paint & Varnish Co., Toledo, O.
 Forest City Paint & Varnish Co., Cleveland, O.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)
 Lucas, John & Co., 322 Race, Philadelphia, Pa.
NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sherwin-Williams Co., Cleveland, O.
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

*Paints (Steel Car Coating)

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)
NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
 Sonneborn, L., Sons (Inc.) ("Amalia"), 262 Pearl, New York
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

*Paints (Technical)

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Paints (Teredo-Proof)

Teredo-Proof Paint Co. (For Preserving Piles, Ties & Timber, etc.), 17 Battery pl., New York

*Paints (Trolley Pole)

(See also Paints for Coating & Preserving Iron & Steel)

FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)
RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)
U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

*Paints (Water Color)

AMERICAN CRAYON CO., Sandusky, O., & Waltham, Mass. (See adv. index, end of book)

Paints (Waterproof)

Acme White Lead & Color Works, Detroit, Mich.
Ajax Paint Co. ("Woodpecker"), Indianapolis, Ind.

Akron Mining, Milling & Mfg. Co., Aurora, Ill.
Arlington Mfg. Co., Canton, O.
Barrett Mfg. Co., Land Title bldg., Phila., Pa.

BINSWANGER, B. & CO., 115 N. 4th, Philadelphia, Pa.

Bird, F. W. & Son ("Parine"), East Walpole, Mass.

Brown, Wm., Paint Co., 138 Washington, Chicago, Ill.

Canton Paint & Varnish Co., Canton, O.
Chatfield Mfg. Co. ("Carbo" Black Enamel), Carthage, O.

Forest City Paint & Varnish Co., Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.

FRENCH, SAM'L. H. & CO., 4th & Calhoun, Phila., Pa. (See adv. index, end of book)

Gould Gibraltar Paint Co., 32 Union sq., New York

GROSCHKE, BRUNO, & CO., 13 Jones Lane, New York. (See adv. index, end of book)

Lehon Co., W. 43d & Lincoln, Chicago, Ill.
Maire Paint Co., Minneapolis, Minn.

Miller, Clifford L., & Co. ("Minwax"), 110 E. 23d, New York

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

New Jersey Paint Works (Louderbough, Hy., Prop.), Jersey City, N. J.

Penna. Standard Rubber Paint Co., West End Trust bldg, Phila., Pa.

RINALD BROS., 1142 N Hancock, Phila., Pa. (See adv. index, end of book)

Sherwin-Williams Co., Cleveland, O.
Standard Tin & Waterproof Paint Co., 381 B'way, Albany, N. Y.

Streett, J. D. & Co., 809 N 2d, St. Louis, Mo.
Suydam, M. B. Co., Pittsburg, Pa.

U. S. GUTTA PERCHA PAINT CO., 12-30 Dudley, Providence, R. I. (See adv. index, end of book)

Waterproof Paint Co., Watertown, Mass.
Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.

Zibell Damp Resisting Paint Co. (In All Colors), 273 Water, New York

*Palladium (Sheet & Wire)

AMERICAN PLATINUM WORKS, Chestnut st & N J R R av, Newark, N. J. (See adv. index, end of book)

Pallets (Brick)

ATLAS CAR & MFG. CO., THE (Pressed Steel), 1289 Marquette rd, N E, Cleveland, O. (See adv. index, end of book)

Avery Stamping Co., Cleveland, O.
Central Expanded Metal Co. (Steel), Pittsburg, Pa.

Mershon, Schuette, Parker & Co. (Wood), Saginaw, Mich.

Ohio Ceramic Engineering Co. (Hot Air), Cleveland, O.

Ohio Galvanizing & Mfg. Co. (Steel), Niles, O.

*Panel Boards ("Beaver")

BEAVER MFG. CO., THE, 228 Perry st., Buffalo, N. Y. (See adv. index, end of book)

BEAVER

The Modern Wall

Takes Place of Both



BOARD

& Ceiling Material

Lath and Plaster

Pans (Acid)

Cornell, J. B. & J. M. Co., 26th & 11th av, New York

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Moore, Samuel L., & Sons Corp., Elizabeth, N. J.

Pans (Amalgamating)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Chalmers & Williams, Commercial National Bank Bldg., Chicago, Ill.

Power & Mining Machinery Co., Cudahy, Wis.

Pans (Annealing)

CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)

Ohio Mfg. Co., Painesville, O.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

***Pans (Bench, Rubber Cement)**

BOWSER, S. F. & CO. (Inc.), Fort Wayne Ind. (See adv. index & branch offices, end of book)

Pans (Bread)

Budke Mfg. Co. ("Acme," Sheet Steel), Parkersburg, W. Va.

Pans (Candy Display)

Wallace, Jno. W. Co., 396 S 2nd, Brooklyn, N. Y.

Pans (Cement)

Honhorst, Joseph, Co., Cincinnati, O.

Pans (Chemical)

Cornell, J. B. & J. M. Co., 26th & 11th av, New York

McCabe Boiler Works, Newark, N. J.

Pans (Chip)

New Britain Machine Co., New Britain, Conn.

Pans (Clean-Up)

Chalmers & Williams, Commercial National Bank Bldg., Chicago, Co.

Power & Mining Machinery Co. (For Gold, Silver, etc.), Cudahy, Wis.

Pans (Drip)

Akron Mfg. Co., Akron, O.

Bronson-Walton Co. ("Never Burn," Family), Collinwood, Cleveland, O.

Budke Mfg. Co. ("Acme"), Parkersburg, W. Va.

Central Stamping Co., 174 Fulton, New York

Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.

Dover Stamping & Mfg. Co., Cambridge, Mass.

Durlach, I. (For Engineers), 54 Vesey, New York

EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)

Geuder & Paeschke & Frey Co., Milwaukee, Wis.

Hayes Mfg. Co., Detroit, Mich.

Hibbs, E. A. (Est. of), 213 Quarry, Phila., Pa.

Keighley, S., Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Lyon Metallic Mfg. Co., Aurora, Ill.

Wheeling Corrugating Co., Wheeling, W. Va.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pans (Dry)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

AMERICAN CLAY MACHINERY CO. (And Wet), Bucyrus, O.

Anderson Foundry & Machine Works, Anderson, Ind.

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

Bonnot Co., Canton, O.

CARLIN'S, THOS. SONS CO. (Also Wet), 1610 River av, North Side, Pittsburg, Pa. (See adv. index, end of book)

Chambers Bros. Co. (Clay, etc.), 52d below Lancaster av, Phila., Pa.

Clearfield Machine Shops (Ltd.), (Also Wet), Clearfield, Pa.

Eagle Iron Works, Des Moines, Ia.

Frost Mfg. Co. ("Frost," also Wet Pans), Galesburg, Ill.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Martin, Henry Brick Machine Mfg. Co., Lancaster, Pa.

Means Foundry & Machine Co. (and Wet), Steubenville, O.

Phillips & McLaren (Also Wet Pans), 24th & Smallman, Pittsburg, Pa.

Power & Mining Machinery Co., Cudahy, Wis.

Raymond, C. W. Co., Dayton, O.

Stevenson Co., Wellsville, O.

Taplin-Rice-Clerkin Co. (Also Wet), Akron, Ohio

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

Pans (Dust)

Central Stamping Co., (Steel Edge), 174 Fulton, New York

Delphos Mfg. Co. ("Delphos" Long Handle), Delphos, Ohio

Climax Lock & Ventilator Co. ("Climax" Long Handle), Buffalo, N. Y.

Dover Stamping & Mfg. Co., Cambridge, Mass.

Knapp Mfg. Co., 20 Warren, New York

Sloan Mfg. Co. ("Sloan's Catch-All"), Kansas City, Mo.

Pans (Evaporating)

(See also Evaporators)

Bethlehem Foundry & Machine Co. (Cast Iron), South Bethlehem, Pa.

Dover Stamping & Mfg. Co., Cambridge, Mass.

Townsend Furnace & Machine Shop Co. (Cast Iron, for Chemical Mfrs., etc.), Albany, N.Y.

Pans (Fry)

Avery Stamping Co. ("Never Break" Steel Spider), Cleveland, O.

New England Enameling Co. ("Wont-Burn" Enameled Steel), Middletown, Conn.

New York Stamping Co. ("Acme" Steel, Cold Handle), Brooklyn, N. Y.

Pans (Gravel)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index, & branch offices, end of book)

Hibbs, E. A. (Est. of), 213 Quarry, Phila., Pa.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Power & Mining Machinery Co., Cudahy, Wis.

Pans (Grinding)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index, & branch offices, end of book)

American Clay Machinery Co., Bucyrus, O.

CARLIN'S, THOS. SONS CO. (Dry & Wet), 1610 River av, North Side, Pittsburg, Pa. (See adv. index, end of book)

Clearfield Machine Shop (Ltd.) (Wet & Dry), Clearfield, Pa.

Lewis Foundry & Machine Co., Coraopolis, Pa.

Phillips & McLaren, Pittsburg, Pa.

Power & Mining Machinery Co., Cudahy, Wis.

Sterritt-Thomas Foundry Co., Pittsburg, Pa.

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

United Engineering & Foundry Co. (Pans 6 to 9 feet for Rolling Mills, etc.), Farmers' Bank bldg., Pittsburg, Pa.

Pans (Lathe)

(See also Pans, Drip)

Keighley, S., Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Lyon Metallic Mfg. Co., Aurora, Ill.

Ohio Mfg. Co., Painesville, O.

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pans (Refrigerator)

Atlantic Stamping Co. ("Atlantic" Galvanized Iron), Rochester, N. Y.

Central Stamping Co., 174 Fulton, New York

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pans (Salt)

Eastwood Wire Mfg. Co., Belleville, N. J.

Pans (Shop)Avery Stamping Co. (Sheet Steel), Cleveland, O.
Clark W. J. Co. (Steel), Salem, O.**HILL & GRIFFITH CO., Cincinnati,**
O. (See adv. index, end of book)
Keighley, S. Metal Ceiling & Mfg. Co., 824
Locust, Pittsburg, Pa.**Kilbourne & Jacobs Mfg. Co. (Pressed Steel),**
Columbus, O.**KOVEN, L. O. & BRO., 50 Cliff, New**
York. (See adv. index, end of book)Lyon Metallic Mfg. Co., Aurora, Ill.
Ohio Mfg. Co., Painesville, O.**WILSON, F. CORTEZ, & CO., 239 Lake,**
Chicago, Ill. (See adv. index, end of book)**Pans (Steam Revolving)**

Day, J. H. & Co., Cincinnati, O.

Holmberg, Chas., & Co., 50 Michigan, Chi-
cago, Ill.**KOVEN, L. O. & BRO., 50 Cliff, New**
York. (See adv. index, end of book)**Pans (Sugar Coating)**Colton, Arthur (Revolving), 184 Brush, Detroit,
Mich.**KOVEN, L. O. & BRO., 50 Cliff, New**
York. (See adv. index, end of book)**Pans (Vacuum)**Allentown Foundry & Machine Works Co.
(Inc.), Allentown, Pa.**ALLIS-CHALMERS CO., Milwaukee,**
Wis. (See adv. index & branch offices, end
of book)**BADGER, E. B. & SONS CO., 75 Pitts,**
Boston, Mass. (See adv. index, end of book)Baeuerle & Morris, 932 N. Front, Phila., Pa.
Bartlett, Hayward & Co., Baltimore, Md.Boston Copper Works Co., Boston, Mass.
Bowman, Walker, 39 Cortlandt, New YorkBlymyer Iron Works Co., Cincinnati, O.
Coldwell-Wilcox Co., Newburgh, N. Y.Cornell, J. B. & J. M. Co., 26th & 11th av.,
New York

Deeley, Rob't & Co., 541 W 32d, New York

Dopp, W. H. Co., Buffalo, N. Y.
Dyer Co., New England bldg., Cleveland, O.Guild & Garrison, ft. of S 10th, Brooklyn,
N. Y.Flynn, W. S., 76 Hudson, Jersey City, N. J.
Goetz & Flodin Mfg. Co., 109 W Chicago av.,
Chicago, Ill.Harris, Arthur & Co., 44 N Curtis, Chicago,
Ill.Holmberg, Chas. & Co., 50 Michigan, Chicago,
Ill.Kehoe & Sons, Savannah, Ga.
Kilby Mfg. Co. (Copper, Bronze & Cast Iron),
Cleveland, O.

Krajewski-Pesant Co., 21 State, New York

MACINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)Manistee Iron Works Co. (For Salt), Manistee,
Mich.

Marletta Iron Works Co., Manistee, Mich.

Morris, Henry G., Phila. Bourse, Phila., Pa.
Morris Engineering Co., 37th & Reed, Phila.,
Pa.Murphy, John H., Iron Works, 643 Maga-
zine, New Orleans, La.Payne & Joubert, 423 Carondelet, New Or-
leans, La.

Phillips, Thos. Co., Providence, R. I.

Pioneer Iron Works, 149 Pioneer, Brooklyn,
N. Y.Pusey & Jones Co., Wilmington, Del.
Rourke, John & Sons, Savannah, Ga.Risdon Iron & Locomotive Works, Steuart
& Folsom, San Francisco, Cal.Sperry, D. R. & Co., Batavia, Ill.
Snider, Geo. L. Mfg. Co., Buffalo, N. Y.Wasel's Copper Works, 50 N. 3d, Brooklyn, N. Y.
Wheeler Condenser & Engineering Co. (and
Multiple Effects), Carteret, N. J.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Pantographs

Ashcroft Mfg. Co., 85 Liberty, New York

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)**Pantry Windows (Revolving)**Van Kannel Revolving Door Co. Home office,
524 E 134th, New York**Paper (Anti-Rust)**

American Paper Mills, 201 Wooster, New York

Dilworth Paper Co., Pittsburg, Pa.

Whittelsey Paper Co., Windsor Locks, Conn.

Paper (Blasting)

Megargee Bros. (Waterproof), Scranton, Pa.

Paper (Blotting) Mfrs.Albermarle Paper Mfg. Co., Richmond, Va.
Bardeen Paper Co., Otsego, Mich.Bedford Pulp & Paper Co., Richmond, Va.
Crocker, Burbank & Co., Fitchburg, Mass.District of Columbia Paper Mfg. Co., Wash-
ington, D. C.

Eaton, Dikeman, Co., Lee, Mass.

HEWITT, C. B. & BROS., 49 Beekman,
New York. (See adv. index, end of book)Hampden Glazed Paper & Card Co.
(Glazed), Holyoke, Mass.Parker, Jos. & Son Co., New Haven, Conn.
Richmond Paper Mfg. Co. ("Climax,"
"Star" & Enameled), Richmond, Va.Standard Paper Mfg. Co. ("Sterling," "Im-
perial," "Standard"), Richmond, Va.Vinton, W. H. & Son, Brattleboro, Vt.
Wrenn Paper Co. ("Wrenn's Best," "Wrenn's
Record," "Mosale," "Miami," "Antlers,"
"Enameled," "Royal Colors"), Middletown,
Ohio**Paper (Blue Print) Mfrs.**Plover Paper Co., Menasha, Wis.
Rising, B. D., Paper Co., Housatonic, Mass.**Paper (Bond) Mfrs.**Aetna Paper Co., Dayton, O.
American Writing Paper Co., Holyoke,
Mass.Berkshire Hills Paper Co., Adams, Mass.
Brown, L. L., Paper Co., Adams, Mass.Chaplin & Gould Paper Co., Springfield,
Mass.

Chemical Paper Co., Holyoke, Mass.

Crane & Co., Dalton, Mass.
Crocker-McElwain Co., Holyoke, Mass.District of Columbia Paper Mfg. Co., Wash-
ington, D. C.East Hartford Mfg. Co., Burnside, Conn.
Esleek Mfg. Co., Turners Falls, Mass.Everett Pulp & Paper Co., Everett, Wash.
Fox River Paper Co., Appleton, Wis.Gilbert Paper Co., Menasha, Wis.
Glatfelter, P. H., Springfield, Pa.Hampshire Paper Co., South Hadley Falls,
Mass.Hammermill Paper Co., Erie, Pa.
Kalamazoo Paper Co., Kalamazoo, Mich.Keith Paper Co., Turners Falls, Mass.
Lee Paper Co., Vicksburg, Mich.Mittineague Paper Co., Mittineague, Mass.
Millers Falls Paper Co., Millers Falls, Mass.Neenah Paper Co., Neenah, Wis.
New York & Penna. Co., 41 Park Row,
New YorkParsons Paper Co., Holyoke, Mass.
Peninsular Paper Co., Ypsilanti, Mich.Plover Paper Co., Menasha, Wis.
Rising, B. D., Paper Co. ("Housatonic,"
"Barrington" & "Danish"), Housatonic,
Mass.Riverside Fibre & Paper Co., Appleton,
Mass.Southworth Co., Mittineague, Mass.
Taylor-Atkins Paper Co., Burnside, Conn.Taylor-Burt Co., Holyoke, Mass.
Valley Paper Co., Holyoke, Mass.Woronoco Paper Co., Woronoco, Mass.
Worthy Paper Co., Mittineague, Mass.Wroe, W. E. & Co. (Construction Bond,
Special Water Marks for the Trade),
Michigan boul. & Peck Court, Chicago,
Ill.**Paper Box Machinery**

(See Machinery, Paper Box)

Paper Can Mfrs.

(See also Tubes, Mailing)

Chicago Paper Tube & Can Co., 20 N May,
Chicago, Ill.Detroit Paper Tube & Can Co., 26 Griswold,
Detroit, Mich.Empire Paper Tube & Box Co., 445 West, New
YorkHinde & Dausch Paper Co. (Corrugated),
Sandusky, O.Improved Mailing Case Co., 158 W. Broadway,
New YorkN. Y. Tube & Corrugated Paper Co., 59 W.
10th, New YorkNovelty Drum Package Co., 84 Waits, New York
St. Louis Paper Can & Tube Co., St. Louis,
Mo.Thompson & Norris Co. (Corrugated), Prince &
Concord, Brooklyn, N. Y.

Union Paper Co., 844 Washington, New York

Paper (Carbon)Able & Willing Mfg. Co., Merchants' bldg.,
Phila., Pa.Acme Carbon Paper Co., 52 B'way, New York
Allen, John & Co., 480 Pearl, New YorkAmerican Manifold Co., 235 B'way, New
YorkAmerican Ribbon & Carbon Co. ("Eagle"),
Rochester, N. Y.Black Diamond Ribbon & Carbon Co.
("Black Diamond"), Rochester, N. Y.Buckeye Ribbon & Carbon Co., Cleveland, O.
Buffalo Carbon Paper Co., Buffalo, N. Y.Carter's Ink Co. ("Ideal"), Boston, Mass.
Clarke & Zugala, 90 Gold, New YorkColumbia Ribbon & Carbon Co. ("Colum-
bla"), 299 B'way, New YorkCorona Supply Co. ("Corona" & "Iroquois"),
Rochester, N. Y.

Cooke, Douglas H., 18 Beaver, New York

Crown Ribbon & Carbon Mfg. Co.
("Crown," "Globe," "Pioneer"), Ro-
chester, N. Y.De Fl Mfg. Co. ("De-Fl," "Solite"), 150
Nassau, New YorkDitmars-Kendig Co., 147 Centre, New York
Downes & Co. ("So-Klean"), 140 Nassau, New
YorkFidelity Carbon Paper Co. ("Non-Smut"),
101 Tremont, Boston, Mass.Foyer, Chas. A., & Co. ("Foyer"), 1120 Pros-
pect av., Cleveland, O.)General Manifold Co., Franklin, Pa.
Heale, J. A., & Co. ("H.-B."), 96 John,
New YorkIndellbra Mfg. Co., Rochester, N. Y.
International Carbon Paper Co. ("I. C. P.
Co."), 241 Centre, New YorkKeystone Carbon Paper Co. ("Keystone"),
Franklin, Pa.Kee Lox Mfg. Co. ("Kee Lox"), Syracuse,
N. Y.

Kruse Printing Ink Co., 191 Cliff, New York

Little, A. P. (Cobweb), Rochester, N. Y.
Michigan Carbon Paper Co., 226 Abbot, De-
troit, Mich.Miller-Bryant-Pierce Co. ("Carnation"),
Aurora, Ill.Mittag & Volgar ("Eureka"), Park Ridge,
N. J.Manifold Supplies Co., 55 Warren, New
YorkNeldich Process Co. ("Neldich"), Burling-
ton, N. J.Newark Ribbon & Carbon Mfg. Co. ("Non-
Smut"), Newark, N. J.Non-Smut Carbon Mfg. Co. ("Attorney,"
"Standard"), Rochester, N. Y.Pen Carbon Manifold Co. ("Non-Flake
Typewriter Carbon"), New Brunswick,
N. J.Republic Carbon & Ribbon Mfg. Co. ("Re-
public"), 180 Centre, New YorkRogers Manifold & Carbon Paper Co., 75
Malden la, New York

Rothschild, M. M., 96 5th av., Chicago, Ill.

Smith Paper Co., Lee, Mass.

Snelling & Son, Brooklyn, N. Y.

SOLTMANN, E. G.
(Papers & Carbons, Extra Large Size
Sheets; also in Rolls for Duplicating
Drawings & Manuscript), 125 E 42d, New
York. (See adv. index, end of book)

Underwood, Jno. & Co., 50 Vesey, New York

Union Ribbon & Carbon Co. ("Apex,"
"Summit," "Cyclo"), 9th & Thompson,
Phila., Pa.United States Typewriter Ribbon Mfg. Co.
("U. S."), 8th & Sansom, Phila., Pa.

Vacuo Carbon Co., Rochester, N. Y.

Webster, F. S. & Co., Boston, Mass.

Whitefield Carbon Paper Works ("Whit-
field" Pen Carbon & Typewriter), 123
Liberty, New York**Paper (Carbon Tissue)**Diamond Mills Paper Co., 44 Murray, New
York

Franklin Tissue Mills, Swarthmore, Pa.

Orr Co., Troy, N. Y.

Paper (Cash Register)

A. P. W. Paper Co. (In Rolls, Numbered or Plain), Albany, N. Y.

Paper (Copying & Manifold)

(See Railroad Stationery, Blanks, Manifestos; also Paper, Manifold; also Paper Railroad, Manifold; also Paper, Railroad, Copying)

Paper (Corrugated)

Bicking, S. A., East Downingtown, Pa.
Hinde & Dauch Paper Co. ("H. & D." Collapsible Corrugated Jute Board & Corrugated Packages, etc.), Sandusky, Ohio

Lawrence Paper Mfg. Co., Lawrence, Kan.
Mac-Sim Bar Paper Co. (Corrugated Carpet Linings, Bottle Wrappers, etc.), Otsego, Mich.

N. Y. Tube & Corrugated Paper Co. (Single & Double Face), 59 W. 10th, New York
Park Novelty Co., 24th & Hamilton, Phila., Pa.
Thompson & Norris Co. (Straw & Fibre Papers for Corrugating), c Prince & Concord, Brooklyn, N. Y.

Paper (Detail)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Mittineague Paper Co. (For Architects & Engineers, etc.), Mittineague, Mass.

Paper (Drawing, Tracing & Detail)*SOLTMANN, E. G.**

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Paper (Filter)

Garrett, H. S. & Son, Cheyney, Pa.
HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Wrenn Paper Co., Middletown, O.

Paper (Fly)

Bardeen Paper Co., Otsego, Mich.
Grand Rapids Sticky Fly Paper Co., Grand Rapids, Mich.
Maumee Paper Co. (Porous), Maumee, O.
Monroe Falls Paper Co., Massillon, O.
Thum, O. W. Co. ("Tanglefoot"), Grand Rapids, Mich.

Paper for Carbon Manifold

(See also Paper, Manifold)

Dexter, C. H., & Sons, Windsor Locks, Conn.

Paper (Grease Proof)

Valley Paper Co. (Parchment), Eaton, Ind.
Vellumoid Paper Co., Worcester, Mass.

Paper (Insulating)

(See Insulating Paper)

Paper (Linen Ledger)

Crane Bros. ("Gold Medal," "Japanese Linen" & All Linen Writing, etc.), Westfield, Mass.
Weston, Byron, Co. ("Weston"), Dalton, Mass.

Paper (Manifold) Mfrs.

(See also Paper, Railroad Manifold; also Railroad Stationery, Blanks, Manifests, etc.)

Anchor Mills Paper Co., Windsor Locks, Conn.
Dexter, C. H. & Sons (Linen, etc.), Windsor Locks, Conn.

Esleek Mfg. Co., Turners Falls, Mass.
General Manifold Co. (Multiplex Papers), Franklin, Pa.

McDowell Paper Mills, Manayunk, Phila., Pa.

Mann, Wm., Co., Lambertsville, N. J.

Paper Mill Machinery

(See Machinery, Paper & Pulp Mill)

Paper Napkins

Dennison Mfg. Co., 15 John, New York
Hoberg, Jno. Co., Green Bay, Wis.

Paper (Parchment) Mfrs.

Bardeen Paper Co., Otsego, Mich.
Bergstrom Paper Co., Neenah, Wis.
Crane Co., Dalton, Mass.
East Hartford Mfg. Co., Burnside, Conn.
Glen Mills Paper Co. (Vegetable), Stephen Girard bldg., Phila., Pa.
Hartford City Paper Co., Hartford, City, Ind.
Hollingsworth & Whitney Co., Boston, Mass.
New York & Penna Co., 41 Park row, New York

Paterson Parchment Paper Co. (Vegetable), Paterson, N. J.
Schmidt & Ault Paper Co., York, Pa.
West Carrollton Parchment Co. (Vegetable), West Carrollton, O.
Whiting, Geo. A., Menasha, Wis.

Paper (Photographic)

American Photographic Paper Co., Boston, Mass.
Artura Photo Paper Co. ("Artura"), Columbus, O.
Haloid Co., Rochester, N. Y.
Mittineague Paper Co., Mittineague, Mass.
Valley Paper Co., Holyoke, Mass.

Paper (Railroad Copying) Mfrs.

Anchor Mills Paper Co., Windsor Locks, Conn.
Lambertville Paper Co., Lambertville, N. J.
Mann, Wm., Co., Lambertville, N. J.
Vernon, Richard R., Rainbow, Conn.
Whittelsey, F. H., Co., Windsor Locks, Conn.

Paper (Railroad Manifold) Mfrs.

Lambertville Paper Co., Lambertville, N. J.
Reyburn Mfg. Co., 22nd & Allegheny av, Philadelphia, Pa.
Whittelsey, F. H., Co., Windsor Locks, Conn.

Paper (Railroad Manilla & Writing)

(See also Paper, Writing, Manufacturers)

Arlington Paper Co., Salisbury, Mills, N. Y.
Bardeen Paper Co., Otsego, Mich.
Bergstrom Paper Co., Neenah, Wis.
Brownsville Paper Co., Brownsville, N. Y.
Consolidated Water Power & Paper Co., Grand Rapids, Mich.
Everett Pulp & Paper Co., Everett, Wash'n
Hollingsworth & Whitney Co., Boston, Mass.
Kimberly-Clark Co., Neenah, Wis.
Moore & Thompson Paper Co., Bellows Falls, Vt.
New York & Penna. Co., 41 Park Row, New York
Rising, B. D., Paper Co. ("Housatonic," "Barrington" & "Danish" Bond), Housatonic, Mass.
Riverton Paper Co., Riverton, Conn.
Robertson Paper Co., Bellows Falls, Vt.
Thilmany Pulp & Paper Mills, Kaukauna, Wis.

Paper (Railroad Ticket)

Bardeen Paper Co., Otsego, Mich.

Paper (Roofing, Saturators)

(See also Paper, Roofing, Sheathing & Building)

Acme Asphalt Roofing Mfg. Co., Jersey City, N. J.
American Insulating Material Mfg. Co., Alexandria, Ind.
Armitage Mfg. Co., Richmond, Va.
Asphalt Roofing Co., Saginaw, Mich.
Barrett Mfg. Co., 17 Battery pl, New York
Barber Asphalt & Paving Co., Land Title bldg., Phila., Pa.
Bird, F. W., & Co., East Walpole, Mass.
Chatfield Mfg. Co., Cincinnati, O.
Denver Gas & Electric Co., Denver, Colo.
Flintkote Mfg. Co., Rutherford, N. J.
Ford Mfg. Co., Chicago, Ill.
General Roofing Mfg. Co., East St. Louis, Ill.
Johns, H. W., Manville Co., 100 William, New York
Lehon Co., W 43d & Lincoln av, Chicago, Ill.
Lincoln Waterproof Cloth Co., Boundbrook, N. J.
National Roofing Co., Tonawanda, N. Y.
New England Felt Roofing Works, Boston, Mass.
Newton Paper Co., Holyoke, Mass.
Pacific Refining & Roofing Co., San Francisco, Cal.
Paraffine Paint Co., San Francisco, Cal.
Standard Paint Co., 100 William, New York
Standard Vulcanite Co., 95 William, New York
Stowell, W. H., Co., Jersey City, N. J.
Susquehanna Roofing Mfg. Co., Cly, Pa.
Union Roofing & Mfg. Co., St. Paul, Minn.
Vulcanite Roofing Co., Franklin, O.
Western Roofing & Supply Co., 177 Randolph, Chicago, Ill.
White, A. H., Co., Ltd., New Orleans, La.
Wright, Barrett & Stillwell Co., St. Paul, Minn.

Paper (Roofing, Sheathing & Building) Mfrs.

(See also Paper, Roofing Saturators)

(To learn what each firm in this list manufactures read printed matter following their name)
Amañbre Mills So. ("Amañbre" Building), Detroit, Mich.
American Straw Board Co. (Building), Old Colony bldg., Chicago, Ill.
Andrews, Jno. T., & Co. (Sheathing), Penn Yan, N. Y.
Barber Asphalt Paving Co., Land Title bldg., Phila., Pa.
Barrett Mfg. Co. (Roofing Felt), Peoria, Ill.
Beloit Box Board Co. (Roofing & Building), Beloit, Wis.
Bicking, S. Austin (Roofing-Sized Sheathing), East Downingtown, Pa.
Bird, F. W., & Son (Roofing, also Sheathing & Building), East Walpole, Mass.
Bowen, E. (Roofing, Building, Tarred Roofing & Slaters' Felt), Lockland, O.
CABOT, SAMUEL, ("Cabot's Sheathing & Deadening Quilt"), 141 Milk, Boston, Mass. (See adv. index & branch offices, end of book)
California Paper & Board Co. (Roofing & Deadening Felts, also Sheathing), San Francisco, Cal.
Chatfield Mfg. (Buildings), Cincinnati, O.

Paper Boards Glue

C. B. HEWITT & BROS.

49 BEEKMAN ST., NEW YORK

Pattern Papers, Detail, Rope, Insulating, Roofing, Building, Wrapping

SPECIAL PAPERS TO ORDER

Coons, Fred M. (Deadening Felts), Rockton, Ill.
 Crown-Columbla Pulp & Paper Co. (Sheathing), San Francisco, Cal.
 Cullen, L. C. (Deadening Felts & Building), Cheyney, Pa.
 Dlem & Wing Paper Co. (Roofing & Sheathing), Cincinnati, O.
 Fleming, Jno. G. & Sons (Roofing & Sheathing), Dallas, Tex.
 Foster Box Board Co. (Roofing), Utica, N. Y.
 Fox Paper Co. (Building), Lockland, O.
 Fuller, F. H. (Sheathing), Haddam Neck, Conn.
 General Roofing Mfg. Co. (Building, Ready Roofing, Saturating & Deadening Felts), East St. Louis, Ill., & Chicago, Ill.
 Georgia Mfg. & Public Service Co. (Sheathing), Marietta, Ga.
 Hartje Paper Mfg. Co. (Rosin-Sized Sheathing & Building), Pittsburg, Pa.
HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
 Hollingsworth & Vose Co. (Red Rope Roofing), Boston, Mass.
 Hollywell Paper Mills (Dry Roofing, also Building), Chambersburg, Pa.
 International Egg Carrier & Paper Co. (Building), Newark, N. J.
 King & Largey Paper Co. (Building), Manhattan, Mont.
 Kingston's, Wm., Sons (Saturating & Deadening Felts, Roofing & Building), Little Falls, N. Y.
 Ithaca Paper Co. (Building), Ithaca, N. Y.
 Janowski, Morris (Builders' Board), Aldam, Pa.
 Laflin Paper Co. (Sheathing), York, Pa.
 Lang, Jno., Paper Co. (Roofing & Saturating & Deadening Felts), 24th & Vine, Phila., Pa.
 Lincoln, L. & Co. (Sheathing), North Dighton, Mass.
 Lockport Paper Co. (Roofing, also Sheathing & Deadening), Lockport, N. Y.
 Los Angeles Paper Mfg. Co. (Sheathing & Saturating & Deadening Felts), Los Angeles, Cal.
 Lydall & Foulds Paper Co., Manchester, Conn.
 Mac-Sim-Bar Paper Co. (Saturating, Roofing & Building), Otsego, Mich.
 Maryland Lime & Cement Co. ("Nogi-Fibre"), Baltimore, Md.
 Mitchell & Son (Sheathing), Palmyra, Mich.
 Mullen Bros. Paper Co. (Building), St. Joseph, Mich.
 Munroe Falls Paper Co. (Roofing & Deadening Felts), Massillon, O.
 Munroe Felt & Paper Co. (Roofing), Boston, Mass.
 Nelson Paper Co. (Roofing, also Building), Minneapolis, Minn.
 Newton Paper Co. (Sheathing & Deadening Felts), San Francisco, Cal.
 Paraffine Paint Co. (Sheathing & Saturating & Deadening Felts), Holyoke, Mass.
 Parker, H. A., & Co. (Sheathing), East Pepperell, Mass.
 Peters Paper Co. (Roofing & Sheathing), Latrobe, Pa.
 Rankin, W. H., Co. (Roofing & Building), Elizabeth, N. J.
 Richardson Paper Co. (Roofing), Lockland, Ohio.
 Roberts, Jno., & Sons Co. (Asbestos, Sheathing, etc.), Waltham, Mass.
 Schmidt & Ault Paper Co. (Sheathing), York, Pa.
 Snider Paper Co. (Roofing & Felt), Dayton, Ohio.
 Susquehanna Roofing Mfg. Co. (Roofing, Rosin-Sized Sheathing and Deadening Felts), Cly, Pa.
 Union Mills Paper Mfg. Co. (Building), New Hope, Pa.
 Union Roofing & Mfg. Co. (Roofing), St. Paul, Minn.
 Wall, J. C. (Sheathing, Roofing & Waterproof Building), Walpole, Mass.
WATSON, H. F. CO. (Asbestos, Roofing & Building, etc.), Erie, Pa. (See adv. index, end of book)
 West, W. T., & Co. (Roofing), Rowlands-ville, Md.
 West Side Paper Co. (Roofing), 30th & Spruce, Phila., Pa.
 York Haven Paper Co. (Roofing & Waterproof Building; also Prepared Roofing Paper), 11 B'way, New York, N. Y.
 York Haven, Pa.

Paper (Rope)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
 Hollingsworth & Vose Co., Boston, Mass.
KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)
 Union Mills Paper Mfg. Co. (Pure Rope Papers & Colored Rope Specialties), New Hope, Pa.

Paper (Toilet) Mfrs.

A. P. W. Paper Co. (Roll & Package), Albany, N. Y.
 Adams Paper Co. (Edwin Crabtree & Sons, Propt.), Wells River, Vt.
 Ancram Paper Mills, 201 Wooster, New York
 Carthage Tissue Paper Co. (Tissue), Carthage, N. Y.
 Cole, W. A., Paper Co. (Tissue), Putney, Vt.
 Continental Paper Bag Co. (Roll Toilet Tissue), 17 Battery pl, New York
 Cornell & Ward, 160 Franklin, New York
 Deutsch Bros., 319 Greenwich, New York
 Fisk Paper Co. (Tissue), Hinsdale, N. H.
 Eltz Gibbon Paper Co., (Tissue), Chauncey, N. Y.
 Fulton Toilet Paper Co., Fulton, N. Y.
 Gardner, L. H., Paper Co. (Tissue), Mum-ford, N. Y.
 Haniford Paper Co., Boston, Mass.
 Hoberg, Jno., Co. (Roll & Package Tissue), Green Bay, Wis.
 Jerome Paper Co., 570 7th av, New York
 Johnson, Geo. T., & Co., Boston, Mass.
 Morgan Envelope Co., Springfield, Mass.
 Northern Paper Mills (Tissue, Automatic Toilet Service, "Northern," Roll & Oval), Green Bay, Wis.
 Oswego River Paper Mills (Package & Roll), Phoenix, N. Y.
 Peerless Mfg. Co., 1025 Ridge av, Phila., Pa.
 Peerless Paper Co. (Toilet Tissues), Troy, N. Y.
 Phoenix Paper Co. ("Jumbo," Rolls, Tissue), Greenwich, N. Y.
 Phoenix Toilet & Paper Mfg. Co. (Tissue), Phoenix, N. Y.
 Robertson, G. A., & Co. (Tissue, Rolls & Sheets), Hinsdale, N. H.
 Scott Paper Co., 7th & Glenwood av, Phila., Pa.
 Utica Paper Mills Co., Sauquoit, N. Y.
 Weston Paper & Mfg. Co. ("Tiger"), Dayton, O.
 Wortendyke Mfg. Co., Richmond, Va.

Paper (Train Order)

Whittlesey Paper Co., Windsor Locks, Conn.

Paper (Typewriter)

(See also Paper, Writing, Manufacturers)
 Eaton-Huribut Paper Co. ("Berkshire"), Pittsfield, Mass.
 Mittineague Paper Co., Mittineague, Mass.

Paper (Waxed or Paraffine)

Bardeen Paper Co. (Paraffin), Otsego, Mich.
 Dayton Paper Novelty Co., Dayton, O.
 Hammerschlag Mfg. Co., 232 Greenwich, New York
 Hollingsworth & Whitney Co., Boston, Mass.
 Paraffin Paper Co., Otsego, Mich.
 Raubsville Paper Mills Co., Raubsville, Pa.
 Union Waxed & Parchment Paper Co., 277 B'way, New York

Paper (Wrapping)

Angler Mills (Waterproof Cloth Lined), Quincy, Mass.
HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
 Niles Board & Paper Co., Niles, Mich.

Paper (Wrapping, in Rolls)

HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
 New York Roll Wrapping Paper Co. ("Hop-king," "Simplex"), 84 Beekman, New York

Paper (Writing) Mfrs.

(See also Paper, Railroad Manila & Writing)
 Arlington Paper Co., Salisbury Mills, N. Y.
 American Writing Paper Co., Holyoke, Mass.
 Bardeen Paper Co., Otsego, Mich.
 Bryant Paper Co., Kalamazoo, Mich.
 Carew Mfg. Co., South Hadley Falls, Mich.
 Chapin & Gould Paper Co., Springfield, Mass.
 Chemical Paper Co., Holyoke, Mass.
 Collins Mfg. Co., No. Wilbraham, Mass.
 Columbian Paper Co., Buena Vista, Vt.
 Crane Bros., Westfield, Mass.
 Crane, Z. & W. M., Dalton, Mass.
 Crane & Co., Dalton, Mass.
 Crocker, Burbank & Co., Fitchburg, Mass.
 Crocker-McElwain Co., Holyoke, Mass.
 Curtis & Bro., Newark, Del.
 Cushnoc Paper Co., Augusta, Me.
 Eastern Mfg. Co., Bangor, Me.
 East Hartford Mfg. Co., Burnside, Conn.
 Eaton-Hurlbut Paper Co., Pittsfield, Mass.
 Everett Julp & Paper Co., Lowell, Wash.
 Fox River Paper Co., Appleton, Wis.
 Friend Paper Co., West Carrollton, Ohio
 Gilbert Paper Co., Menasha, Wis.
 Glatfelter, P. H., Co., Spring Forge, Pa.
 Grove Mills Paper Co., 38 Park Row, New York
 Hamilton, W. C. & Sons, William Penn P.O., Pa.
 Hammermill Paper Co., Erie, Pa.
 Hemingway Paper Mfg. Co., New Windsor, New York
 Keith Paper Co., Turners Falls, Mass.
 Kalamazoo Paper Co., Kalamazoo, Mich.
 Kenmore Pulp & Paper Co., Phila., Pa.
 Kimberly-Clark Co., Neenah, Wis.
 King Paper Co., Kalamazoo, Mich.
 Lee Paper Co., Vicksburg, Mich.
 Mead Pulp & Paper Co., Dayton, Ohio.
 Merrimac Paper Co., Lawrence, Mass.
 Mount Holly Paper Co., Mount Holly Springs, Pa.
 Nashua River Paper Co., Pepperell, Mass.
 N. Y. & Pennsylvania Co., 41 Park Row, New York
 Oglesby Paper Co., Middletown, Ohio
 Old Berkshire Mills Co., Dalton, Mass.
 Peninsular Paper Co., Ypsilanti, Mich.
 Plover Paper Co., Menasha, Wis.
 Poland Paper Co., Mechanic Falls, Me.
 Taylor-Atkins Paper Co., Burnside, Conn.
 Ticonderoga Pulp & Paper Co., 41 Park Row, New York
 Walker, J. H., 16 Reade, New York, Mills, Burnside, Conn.
 West Virginia Pulp & Paper Co., 309 B'dway, New York, Mills, Davis, W. Va.
 Weston, Byron, Co., Dalton, Mass.
 Whiting, George A., Menasha, Wis.
 Whiting Paper Co., Holyoke, Mass.

Paper & Pulp Mills

(Star (*) indicates Wood Pulp Mills)

(If the Main Office is not located at the Mill, the location of same follows after their Name)

CALIFORNIA.

ANTIOCH—California Paper & Board Mills (Straw Board, Deadening Felts, Tag Board, etc.), Office: San Francisco, Cal.
FLORISTON—*Floriston Pulp & Paper Co. (Manila, News, Tissue & Express). Office: San Francisco, Cal.
LOS ANGELES—Los Angeles Paper Mfg. Co. (Box Board, Sheathing, Deadening Felts & Wrapping)
SAN FRANCISCO—California Paper & Board Co. (Straw Board, Deadening Felts, Tag Board). Mills, Antioch, Cal.
 *Crown-Columbia Pulp & Paper Co. (Manila, News, Sheathing, Hanging, Flaxing, Express, Bag, Fruit, Paraffine & Wrapping; also Ground Wood & Sulphite Fibre). Mills, Oregon City, Ore.
 *Floriston Pulp & Paper Co. (Manila, News, Tissue, Express, etc.). Mills, Floriston, Cal.
 *Lebanon Paper Co. (Straw Wrapping, Fibre & Manila; also Sulphite Fibre). Mills, Lebanon, Oregon
 O'Neill Bros. & Callaghan (Butchers, Manila & Rag Wrapping). Mills, Soy-reel, Cal.
 Paraffine Paint Co. (Deadening & Saturating Felts & Sheathing)
 *Williamette Pulp & Paper Co. (News & Ground Wood & Sulphite Fibre). Mills, Oregon City, Oregon
SOQUEL—O'Neill Bros. & Callaghan (Butchers' Manila & Rag Wrapping), Office: San Francisco, Cal.

CONNECTICUT.

ANDOVER—Case, Fred L. Paper Co. (Leather Board & Specialties)
BOZRAHVILLE—Yantic River Paper Mills (Manila Tissue)
BRIDGEPORT—Tait & Sons Paper Co. (Box Board)
BURNSIDE—Case & Marshall (Rope, Board, Waterproof Papers, etc.)
 East Hartford Mfg. Co. (Bonds, Linens, Parchment, Folding, Writing, etc.)
 Taylor-Atkins Paper Co. (Bonds, Linens, Vellums & Writing)
 Walker, J. H. (Book, Envelope & Writing), Office: New York City
CHAPLIN—International Leather Co. (Fibre & Leather Board), Office: Boston, Mass.
COMSTOCKS BRIDGE—Brown, Howard C. (Card Middles & Coating)
DANBURY—McArthur Bros. (Manila, Hardware & Wrapping)
GLASTONBURY—Naubuc Paper Co. (Box, Cloth, Button, Leather, Mill, Trunk & Wrapping Boards)
 Riverside Paper Mfg. Co. (Binders Board, etc.)
HADDAM NECK—Fuller, F. H. (Manila, Wrapping & Sheathing)
HARTFORD—Hartford Board Co. (Binders, Leather & Straw Board)
 Hartford Paper Co. (Book, Cologne, French Folio & Colored Papers). Mills, Poyonock, Conn.
HIGHLAND PARK—Case Bros. (Inc.) (Press Board, Jacquard Cards, Insulating Board, etc.)
HOP RIVER—Case Leather Works (Hideite Leather Boards & Specialties)
MANCHESTER—American Writing Paper Co. (Writing, Specialties in Paper, Fine Book, Cover & Plate Papers), Office: Holyoke, Mass.
 Case, A. Willard Co. (Imitation Press & Decorated Boards & Cover Papers, Poster & Mat Boards & Specialties)
 Foulds, Wm. & Co. (Inc.) (Button, Straw, Binders & Leather Board)
 Lydall & Foulds Paper Co. (Chipped, Plain & Mill Lined Straw Board)
MONTVILLE—Robertson, C. M. Co. (Folding Box Boards, Wrapping & Paper Box Boards)
NEW HAVEN—New Haven Pulp & Board Co. (Manila & White Folding Box Boards)
 National Folding Box & Paper Co. (Manila, Board, Single & Double Lined Chip Box Board). Mills, Ballston Spa, N. Y.
 Parker, Jos. & Son Co. (Blotting)
NEWINGTON—Newington Paper Co. (Binders & Leather Board)
NORTH WESTCHESTER—Norton, C. H. (Binders, Box, Shoe & Trunk Board)
NORWALK—St. George Pulp & Paper Co. (News & Hanging, also Ground Wood), Office: Sandy Hill, N. Y.
NORWICH—Hubbard, A. H. Co. (Super-Calenders & Colored Cover), Mills: Greenville, Conn.
 Uncas Paper Co. (Box Board & Card Middles)
ONECO—Case & Risley Press Paper Co. (Rag Press Papers in All Colors & Hand Finished Boards)
POQUONOCK—Hartford Paper Co. (Book, Catalogue, French Folio & Colored Papers), Office: Hartford, Conn.
RAINBOW—Hartford Paper Co. (Book & Colored), Office: Hartford, Conn.
 Merwin Paper Co. (Insulating, Press & Shield Boards)
 Rainbow Mills (Richard R. Vernon, Prop.) (R. R., Impression Paper, Tissue & Copying)
RIVERTON—Riverton Paper Co. (Yellow Railroad Copying & Oil Tissue)
SEYMOUR—Beach, S. Y. Paper Co. (Colored Specialties)
SHELTON—United Box Board & Paper Co. (Manila Boards & Paper Specialties), Office: New York City
SOUTH COVENTRY—Nichols, N. J. Paper Co. (Binders & Leather Prints)
SOUTH GLASTONBURY—Wasuc Mills Co. (Binders, Straw, Album & Leather Board & Specialties)
SOUTH MANCHESTER—Brookside Paper Co. (Binders, Album, Straw & Trunk Board)
 Rogers Paper Mfg. Co. (Press, Insulating, Jacquard, Shield & Leather Boards)
SOUTHFORD—Diamond Match Co. (Binders' Straw, Album & Leather Board), Office: Chicago, Ill.
TALCOTTVILLE—Sweett, R. K. Co. (Binders Board)

UNCASVILLE—Sachem Paper Board Co. (Leather Board, Binders Board, etc.)
UNIONVILLE—American Writing Paper Co. (Writing, Coupon Bond), Office: Holyoke, Mass.
 Case Mfg. Co. (Colored, Hardware, Manila, Pattern & Rope)
 Connecticut Pulp & Paper Co. (Pulp & Press Boards)
VERSAILLES—Eastern Straw Board Co. (Straw Board, Folding, Box Board & Building)
WESTPORT—Westport Paper Co. (Binders, Leather, Trunk & Box Board)
WINDSOR LOCKS—American Writing Paper Co. (Boards & Manillas, Rope & Jute Manillas), Office: Holyoke, Mass.
 Anchor Mills Paper Co. (White, Colored & Manila Tissues, Pattern, Toilet & Anti-Tarnish, White Shoe, French Folio, Stereotype, Manifold & Blue Seidnitz, Grass-Bleached Silver, Yellow, White & Manila R. R. Copying)
 Dexter, C. H. & Sons (Cover Papers, Tissues & Specialties, "Star" Manifold Linen Typewriter, "Star" Grass-Bleached Silver Tissues, White & Colored Tissues, Copying, Bristols)
 Whittelsey, F. H. Co. (Yellow Way Bill, Manila, White & Parchment Copying, White & Colored Tissue, Manifold, Grass-Bleached, Typewriter, Anti-Tarnished, Oiled Tissue & Boards & Train Orders, etc.)

DELAWARE.

BEAVER VALLEY—Garrett, Edwin (Fine Tissue, Manila & Colored), Office: Chester, Pa.
NEWARK—Curtis & Bro. (Rag Book, Envelope, Specialties & Writings)
WILMINGTON—Delaware Hard Fibre Co. (Rag Specialties & Fibre Boards, etc.), Mills: Marshallton, Del.
DU PONT, E. I., de NEMOURS Powder Co. (Ground Wood Floor Mills), Newhall, Me. (See adv. index, end of book)
 *Jessup & Moore Paper Co. (Book, Paper & Soda Fibre), Office: Phila., Pa.
WOODDALE—Marshall & Mitchell (Special Paper for Making Vulcanized Fibre for Electrical & Mechanical Purposes)
YORKLYN—Marshall Bros. (Rag Papers for Vulcanized Fibre & Rag Specialties)
 Marshall, T. S. & Sons (No. 2 Manila)

DISTRICT OF COLUMBIA.

WASHINGTON—District of Columbia Paper Mfg. Co. (Finish Bond, Blotting, Embossed Flora Blottings, Cover, Matrix & Specialties)

GEORGIA.

MARIETTA—Georgia Mfg. Co. & Public Service Co. (Super-Calendered Book, News, Manila, Bag, Rag, Lined Board, Plain & Lined Chip Board, News Board, Sheathing, Carpet Linings, Water Finish Fibre)

ILLINOIS.

CARLYLE—Carlyle Paper Co. (Straw Wrapping, Carpet, Building & Deadening Felts)
CHICAGO—American Straw Board Co. (Straw Board, Mill Lined; Egg Case Board & Building Board, Chip Paper Stock, News, Combination Board), Old Colony bldg
 *Boyce, W. D. Co. (Manila Tag Board, Folding Box Board, Ice Cream & Oyster Pail Stock), 76 Dearborn. Mills, Marseilles, Ill.
 Chicago Coated Board Co. (Paper Box Boards, Plain, Mill Lined, & Sheet Lined), 545-625 N Water
 Diamond Match Co. (Binders, Straw, Album & Leather Board). Mills, Southford, Conn.
 Ford Mfg. Co. (Boards, Express, Carpet Linings, Deadening Felts), 109 W Washington; Mills: Madison, Ind.
 Sall Mountain Asbestos Mfg. Co. (Asbestos Paper & Boards). Mills, Porter, Ind.
EAST ST. LOUIS—General Roofing Mfg. Co. (Saturating & Deadening Felts, Building & Carpet Lining, Ready Roofings)
LOOKPORT—American Straw Board Co. (See Chicago, Ill.)
MARSEILLES—*Boyce, W. D. Paper Mills Co. (Manila Tag Board, Folding Box Board, Ice Cream & Oyster Pail Stock), Office: Chicago, Ill.

Crescent Paper Co. (Straw & Chip Board, Egg Case Fillers & Box Board, Manila Lined & Plain)
HOWE & Davidson Co. (Paper Box & Wax-Coated Boards)
 Marseilles Wrapping Paper Co. (Rope Papers, Glazed Express, Rag & Bag Papers)
MOLINE—Illinois Straw Products Co. (Chip Board, Cracker Shell Boards & Straw Wrapping)
MORRIS—Prairie Box Board Co. (Oak Grained & Plain Jute Boards, Manila, White & Colored Pulp-Lined Combination Boards, Plain & Mill-Lined Straw & Chipped Boards)
MOUNT CARMEL—United Box Board & Paper Co. (Straw Board), Office: New York City
PEKIN—Illinois Box Board Co. (Plain & Mill-Lined Straw & Chip Boards)
PEORIA—Barrett Mfg. Co. (Roofing Felt), Office: New York City
 United Box Board & Paper Co. (Straw Board), Office: New York City
QUINCY—American Straw Board Co., Office: Chicago, Ill.
ROCKFORD—Rockford Paper Box Board Co. (Straw, Chip, Jute & Combination Boards)
 Rockford Paper Mills (Straw Board & Straw Wrapping)
ROCKTON—Coons, Fred M. (Carpet Lining & Deadening Felts)
TAYLORVILLE—E-Z Opener Bag Co. (Bag, Express & Manila)
VANDALIA—Ford Mfg. Co. (Roofing & Deadening Felt, Bottle Wrapper & Carpet Lining), Office: Chicago, Ill.

INDIANA.

ALBANY—Albany Paper Co. (Straw Board, Plain & Lined), Office: Phila., Pa.
ALEXANDRIA—Alexandria Paper Co. (Machine Finished Book & News)
ANDERSON—American Straw Board Co., Office: Chicago, Ill.
BROOKVILLE—*Thompson & Norris Co. (of Indiana) (Straw & Fibre Papers for Corrugating & Corrugated Paper & Bottle Packing), Office: Brooklyn, N. Y.
BROWNSTOWN—Brownstown Straw Board & Paper Co. (Boards, Express, Manila & Rag Wrapping)
CARTHAGE—United States Board & Paper Co. (Straw & Binders Board)
DELPHI—Dodge, Levi (Straw Board)
ELKHART—Elkhart Bristol Board & Paper Co. (Folding Box & Press Boards, White & Combination Boards, Tag, Document Bristols, Blanks, Silk Wrappers & Press Boards)
 Elkhart Paper Mill Co. (Machine Finished & Super-Calendered Book & Tablet)
 Valley Paper Co. (Greaseproof & Parchment)
EVANSVILLE—Funke's, Ferdinand Sons (Heavy Cloth, Mill Wrapper, Absorbent & Common Ham Wrapper & Feather Edge Fibre Work)
HARTFORD CITY—Hartford City Paper Co. (Greaseproof Parchment, Parchment & Glassine)
 Wayne Paper Mills (Rope & Express)
INDIANAPOLIS—Beveridge Paper Co. (White & Combination Boards, Bristols, Blanks & Silk Wrappers)
 Xenia Board & Paper Co. (Manila Lined & Colored Boards, Chip & News Board; also Pasted Boards). Mills, Xenia, O.
KOKOMO—American Straw Board Co., Office: Chicago, Ill.
 Knerr, Lewis Board & Paper Co. (Box Boards), Office: Cincinnati, O.
 *Kokomo Paper Co. (Pulp Boards, Layers, Folding Box & Chip Boards)
 *Kokomo Wood Pulp Co. (Ground Wood)
LAFAYETTE—Lafayette Box Board Co. (Straw Board, Plain & Mill Lined Sheet)
MARION—Marion Paper Co. (Folding Box Board, News Boards, Filled & Solid Pulp Boards, Plain & Grained Jute Board & Colored Board)
 Vieth's Paper Mills (Plain & Mill Lined Straw Board & Folding Box News Boards)
MOUNT VERNON—Mount Vernon Straw Board Co. (Plain & Lined Straw Board)
MUNCIE—Hinde & Dauch Paper Co. (Chip & Jute Board), Office: Sandusky, O.
 United Box Board & Paper Co. (Straw Board), Office: New York City
NOBLESVILLE—American Straw Board Co., Office: Chicago, Ill.

PORTER—Sall Mountain Asbestos Mfg. Co. (Asbestos Paper & Boards, etc.), Office: Chicago, Ill.
ROCKPORT—United Box Board & Paper Co. (See New York City)
SOUTH BEND—La Salle Paper Co. (Express, Wrapping & Specialties)
TERRE HAUTE—Terre Haute Paper Co. (Corrugating, Tube & Egg Case Boards, Straw & Rag Wrapping), Office: Dayton, O.
VINCENNES—Empire Paper Co. (Straw Board, Lined & Plain), Office: Phila., Pa.
 Vincennes Paper Co. (Plain & Mill Lined Straw Board)
WABASH—United Box Board & Paper Co. (Straw Board, Doubled Straw & Paper Stock Boards, Chip, Paper, Stock, News & Combination Boards & Coated Box Boards), Office: New York City

IOWA.

CLINTON—Clinton Paper Co. (Straw & Rag Wrapping)
 Union Roofing & Mfg. Co. (Roofing & Deadening Felt), Office: St. Paul, Minn.
FORT MADISON—Brown Paper Co. (Straw & Rag Wrapping)
TAMA—National Paper Mills & Filler Co. (Straw Board)
WATERLOO—Waterloo Paper Co. (Straw Board & Wrapping)

KANSAS.

COFFEYVILLE—North Star Mfg. Co. (Straw Board & Egg Cases)
INDEPENDENCE—Independence Paper Co. (Straw Board, Egg Cases & Egg Case Fillers)
LAWRENCE—Lawrence Paper Mfg. Co. (Straw Wrapping, Board & Corrugated Packing)

LOUISIANA.

BRAITHWAITE—United Railway & Trading Co. (Ltd.) (Wrapping), Office: New Orleans, La.

MAINE.

AUBURN—Auburn Leather Board Supply Co. (Leather Board)
AUGUSTA—*Cnshnoc Paper Co. (Envelope Manila, Bag & Sack, Manila Wrapping, Yellow Writing, Laid & Wove, White Sulphite Papers, etc.)
BANGOR—*Orona Pulp & Paper Co. (Bag, Coating, Manila, Envelope, Sulphite Fibre). Mills, Orona, Me.
BELFAST—Sherman & Co. (Leather Board)
BENTON FALLS—United Box Board & Paper Co. (Jute, Board & Wood Pulp Board), Office: New York City
CHISHOLM—*International Paper Co., Office: New York City
CUMBERLAND MILLS—*Warren, S. D. & Co. (Book & Coated Paper & Soda Fibre), Office: Boston, Mass.
DAMARISCOTTA MILLS—Centrifugal Leather Co. (Leatherboard), Office: Portland, Me.
EAST POLAND—National Fibre Board Co. (Fibre Board & Horn Fibre), Office: Boston, Mass.
EAST MILLINOCKETT—*Great Northern Paper Co. (Ground Wood & Sulphate Fibre)
FAIRFIELD—United Box Board & Paper Co. (Ground Wood), Office: New York City
GARDINER—*Hollingsworth & Whitney Co. (Manila, Writing & Railroad Manila & Ticket, Parchment, Waxed Manilas, Linings & Packers), Office: Boston, Mass.
 *Warren, S. D. & Co. (Machine-Finished & Super-Calendered Book), Office: Boston, Mass.
GREAT WORKS—*Penobscott Chemical Fibre Co. (Soda Fibre), Office: Boston, Mass.
HOWLAND—*Howland Pulp & Paper Co. (Sulphite Fibre)
JAY—*International Paper Co. (Ground Wood), Office: New York City
KENNEBUNK—Leatheroid Mfg. Co. National Fibre Board Co. (Leather & Fibre Board), Office: Boston, Mass.
LINCOLN—*Katabdin Pulp & Paper Co. (Sulphite Fibre), Office: Claremont, N. H.
LISBON FALLS—Lisbon Falls Fibre Co. (Sulphite Fibre), Office: Brunswick, Me.
LIVERMORE FALLS—*International Paper Co. (Pulp Boards & Mill Wrappers & Ground Wood), Office: New York City

MADISON—*Great Northern Paper Co. (News & Manila Paper & Sulphite Fibre & Ground Wood), Office: New York City
MECHANIC FALLS—Poland Paper Co. (Book, Writing & Lithograph)
MILLINOCKETT—*Great Northern Paper Co. (News, also Ground Wood), Office: New York City
MONTAGUE—*International Paper Co. (Ground Wood), Office: New York City
NORTH ANSON—*American Pulp Paper & Lumber Co. (Ground Wood)
NEWHALL—*du Pont, E. I. de Nemours Powder Co. (Ground Wood Flour), Office: Wilmington, Del.
OLDTOWN—*Nekonegan Paper Co. (Ground Wood)
ORONO—*International Paper Co. (News, also Ground Wood), Office: New York City
 *Orono Pulp & Paper Co. (Bag, Coating, Manila & Envelope, also Sulphite Fibre), Office: Bangor, Me.
PORTLAND—Berlin Mills Co. (News Paper, Sulphite Fibre, etc.)
 *Burgess Sulphite Fibre Co. (Bleached & Unbleached Sulphate Fibre). Mills, Berlin, N. H.
 *Dalton Paper Mills (News & Ground Wood Pulp). Mills, Fitzdale, Vt.
 *Oxford Paper Co. (Machine Finished & Super-Calendered Book, Lithograph, Postal Cards, Varnish Label & Surface Coating; also Soda & Sulphite Fibre). Mills, Rumford Falls, Me.
RILEY—*International Paper Co. (Ground Wood), Office: New York City
RUMFORD FALLS—*International Paper Co. (News, Manila, Bag, also Ground Wood & Sulphite Fibre), Office: New York City
 *Oxford Paper Co. (Machine Finished & Super-Calendered Book, Lithograph, Postal Cards, Varnish Label & Surface Coating, also Soda & Sulphite Fibre), Office: Portland, Me.
SHAWMUT—*Shawmut Mfg. Co. (Ground Wood)
SKOWHEGAN—*Riverside Pulp Co. (Ground Wood)
 *Skowhegan Pulp Co. (Ground Wood)
SOLOM—International Paper Co. (Ground Wood), Office: New York City
SOUTH BREWER—*Eastern Mfg. Co. (Ledger, Writing & Envelope, also Sulphite Fibre & Ground Wood), Office: Bangor, Me.
SOUTH GARDINER—*International Paper Co. (Sulphite Fibre), Office: New York City
SOUTH WINDHAM—*Androscoggin Pulp Co. (Wood Pulp Board, also Ground Wood), Office: Boston, Mass.
WINSLOW—*Hollingsworth & Whitney Co. (Manila Fibre & Waxed Manilas, Linings & Packers, Railroad Manila & Ticket, also Sulphite Fibre & Ground Wood), Office: Boston, Mass.
WOODLAND (Washington County)—*St. Croix Paper Co. (News, also Sulphite Fibre & Ground Wood), Office: Boston, Mass.
YARMOUTHVILLE—Warren, S. D. & Co. (Soda Fibre), Office: Boston, Mass.

MARYLAND.

BENTLEYS SPRINGS—Young, Dan'l & J. B. (Roofing & Rag Wrapping)
 Young, Jos. W. Valley Mill (Straw Wrapping)
CHESTERTOWN—American Straw Board Co. (Straw Board, Plain, Mill Lined & Sheet Lined), Office: Chicago, Ill.
CHILDS—Garrett, C. S. & Son Co. (Hanging), Office: Phila., Pa.
ELKTON—*Kenmore Pulp & Paper Co. (Book & Writing, Laid Papers, also Soda Fibre), Office: Phila., Pa.
FREELAND—Gore, Howard M. (Manila & Rag Wrapping)
HAGERSTOWN—Antietam Paper Co. (Machine Finished & Super-Calendered Book)
LEEDS—Harlan & Bro. (Binders Board)
ROWLANDSVILLE—West, Wm. T. & Co. (Roofing, Deadening & Dry Saturating Felt)
SINGERLY—Carter, Chas. L. Cecil Paper Mills (Binders, Leather & Trunk Boards)

MASSACHUSETTS.

ADAMS—Berkshire Hills Paper Co. (Bond, Ledger & Linen)
 Brown, L. L. Paper Co. (Linen Ledger & Record, Merchant & Bankers Ledgers)

BANCROFT—Bulkley, Dnnton & Co. (Bancroft Mills, also Union Mills), Office: New York City
BOSTON—Crehore, Chas. F. & Sons (Press Boards & Jacquard Cards)
 Groton Leather Board Co. (Heating & Counter Boards). Mills, W. Groton, Mass.
 Hollingsworth & Vose Co. (Red Rope Roofing & Insulating; All & Part Rope Tag, Pattern Box Stay, Flour & Cement Sack & Specialties)
 *Hollingsworth & Whitney Co. (Manila, Writing & Railroad Manila & Ticket Parchment, Waxed Manilas, Lining & Packers, Manila Fibre, Sulphite Fibre & Ground Wood). Mills, Gardiner, Me., & Winslow, Me.
 Middleton Paper Mills (Coating, Hanging, Bogus & Specialties). Mills, Middleton, Mass.
 Munroe Felt & Paper Co. (Roofing Carpet Lining & Ingrain Hanging). Mills, Lawrence, Mass.
 National Fibre Board Co. (Fibre & Leather Board & Horn Fibre). Mills, East Poland, Me., Kennebunk, Me., & Lawrence, Mass.
 Penobscott Chemical Fibre Co. (Soda Fibre). Mills, Great Works, Me.
 *St. Croix Paper Co. (News, Sulphite Fibre & Ground Wood). Mills, Woodland, Me.
 Tileston & Hollingsworth Co. (Book, Lithograph, Card & Plate). Mills, Hyde Park, Mass.
 *Warren, S. D. & Co. (Book & Coated Paper, Soda Fibre, Machine Finished & Super-Calendered Book). Mills, Cumberland Mills, Me., & Gardiner, Me.
 Wheelwright, Geo. W. Paper Co. (Coating & Book, Bristol Boards, White & Tinted Blanks, Music, etc.). Mills, Fitchburg, Mass., North Leominster, Mass., & Wheelwright, Mass.
BRIDGEWATER—Jenkins, Geo. O. (Leather Board), Office: Whitman, Mass.
CHARLES RIVER—Waban Paper Co. (Rope Board for Electrical Insulation)
CHELSEA—*CABOT, SAMUEL (Inc.) ("Cabot's") Sheathing & Deafening Quilt). Office: Boston, Mass. (See adv. index, end of book)
DALTON—Crane, Z. & W. M. (Extra Fine Writing)
 Crane & Co. (Bank Note, Parchment & Bond)
 Old Berkshire Mills Co. (Z. & W. Murray Crane, Props.) (Superfine Writings & Bristol Board)
 Weston, Byron Co. (Linen Ledger & Record)
EAST PEPPERELL—See Pepperell
EAST WALPOLE—Bird, F. W. & Son (Roofing, Building, Sheathing, Hardware, Wrapping, Insulating & Special Waterproof Papers)
FARLEY—*Farley Paper Co. (Colored Bristol & Card Middles, also Ground Wood)
FITCHBURG—Crocker, Burbank & Co. (Book, Bristol Board, Card, Blotting & Writing)
 Faulah Paper Co. (Mill Blanks)
 Fitchburg Paper Co.—Rodney Wallace, Firm Name—(Card, Coating, Book & No. 1 Hanging)
 Wheelwright, Geo. W. Paper Co. (Coating Paper), Office: Boston, Mass.
HAVERHILL—Haverhill Box Board Co. (Box Boards)
HOLYOKE—American Writing Paper Co. (Book, Envelope, Writing, Wedding Folios, Calender & High Plate Finish, Bond, Linen & Ledger, Government Bond & Record Ledger, Colored Mediums, Drawing & Mimeograph, White & Colored Bristols)
 Chemical Paper Co. (Tub-Sized Writing, Envelope, Papeterie, Bonds, Linens, Folding Box Boards, Silk Boards, Detail Drawing & Cover)
 Crocker-McElwain Co. (Writings, Ledgers, Bonds, & Card Index Bristols)
 Franklin Paper Co. (White & Colored Bristol Boards, White Blanks & Index Bristols)
 Japanese Tissue Mills (Crystal Crepe & Decorating Paper, Paper Napkins & Fancy Decorated Tissues)
 Newton Paper Co. (Sheathing, Deadening Felt, Wool Felt, Heavy Wrappers, Jute & Rope Manila & Specialties, Corrugated Blue Carpet Lining Felt)
 Parsons Paper Co. (Bonds, Ledgers, Bristols & Linens)

Pope Paper Co. (Tissue & Light Weight Papers)
 Stony Brook Paper Co. (Commercial Black Papers & Specialties). Mills, South Hadley, Mass.
 Taylor-Burt Co. (Book, Cover, Bond, Envelope, Papeterie, Vellum & Special Finish Papers)
 Valley Paper Co. (Bonds, Linens, Ledgers Photographic Papers)
 Whiting Paper Co. (Writing)
 Whitmore Mfg. Co. (Surface Coated, Enamelled Covers & Cardboard)
 HOUSATONIC—Kising, B. D. Paper Co. (Bond, Linen & Ledgers, Wedding & Index Bristols)
 HUNTINGTON—American Writing Paper Co. (Writing), Office: Holyoke, Mass.
 HYDE PARK—Tileston & Hollingsworth Co. (Book, Lithograph, Card & Plate), Office: Boston, Mass.
 LAWRENCE—Champion-International Co. (Soda & Sulphite Fibre)
 Merrimac Paper Co. (Super-Calendered & Machine Finished & Enamelled Book, Coated & Uncoated Lithograph, Writing, Music & Envelope)
 Munroe Felt & Paper Co. (Roofing, Carpet Lining & Ingrain Hanging), Office: Boston, Mass.
 National Fibre Board Co. (Leather Board), Office: Boston, Mass.
 LEE—American Writing Paper Co. (Blotting & Card), Office: Holyoke, Mass.
 Eaton, Dikeman Co. (Blotting & All Grades of Absorbent Papers)
 Mountain Mill Paper Co. (High Grade Ledgers & Specialties)
 Smith Paper Co. (Copying, Silver, Roll, Colored, Condenser, Typewriter, Wrapping & Carbon Tissues)
 LOUDVILLE—Londville Leather Board Co. (Sole Leather Heeling, Inner Sole & Counter Board)
 MIDDLETON—Middleton Paper Mills (Coating, Hanging, Bogus & Specialties), Office: Boston, Mass.
 MILLERS FALLS—Millers Falls Paper Co. (Book, Cover, Index Bristol, Bond & Tinted Superfines)
 MITTINEAGUE—American Writing Paper Co. (Writing, Bond, Russian Linen Ledger & Wedding Board). Office: Holyoke, Mass.
 Mittineague Paper Co. (Bond, Book, Cover, Drawing Paper & Board, Wedding, Photographic Paper & Board, Box Cover Paper & Board)
 Southworth Co. (Bonds, Linens, Ledgers & Folded Papers)
 Worthy Paper Co. (Bond, Ledger, Linen, Fine, Superfine, Pasted Wedding Board & Fancy Covers, Deckle Edged)
 MONROE BRIDGE—Ramage, Jas. Paper Co. (White & Colored Manila Bristol, Manila Tag Board, Duplex Board, Cover & Colored Specialties, also Ground Wood)
 MOUNT TOM—Monnt Tom Sulphite Pulp Co. (Bleached Sulphite Fibre)
 NEW BEDFORD—Pairpoint Corporation (Straw Board, Heavy Baling & Case Lining Papers)
 NEWTON LOWER FALLS—Crehore, Chas. F. & Son (Press Board & Jacquard Cards), Office: Boston, Mass.
 NORTH DIGHTON—Lincoln, L. & CO. (Manila, Sheathing, Tack & Tailors' Pattern)
 NORTH LEOMINSTER—Wheelwright, Geo. W. Paper Co. (Bristol Boards, White & Tinted Blanks, Coating & Book), Office: Boston, Mass.
 NORTH WILBRAHAM—Collins Mfg. Co. (Writing)
 OTTER RIVER—Otter River Board Co. (Binders & Trunk Boards)
 PEPPERELL—Nashua River Paper Co. (Book, Lithograph, Coating & Writing)
 Parker, H. A. & Co. (Mill Wrappers & Sheathing)
 RUSSELL—Chapin & Gould Paper Co. (Bond, Ledger & Writing), Office: Springfield, Mass.
 SOUTH HADLEY—Japanese Tissue Mills (Fancy Colored Tissues, Crystals, Crepe Decorating Papers), Office: Holyoke, Mass.
 Stony Brook Paper Co. (Climmerlan Black Papers & Specialties), Office: Holyoke, Mass.
 SOUTH HADLEY FALLS—Carew Mfg. Co. (Ledgers, Bonds, Linens & Typewriter Papers)
 Hampshire Paper Co. (Bonds Only)

SOUTH LEE—American Writings Paper Co. (Writing), Office: Holyoke, Mass.
 TOWNSEND HARBOR—Spaulding, J. & Sons Co. (Fibre Boards), Office: North Rochester, N. H.
 TURNERS FALLS—Esleek Mfg. Co. (Onion Skin, Manifold Typewriter, Bond & Linens)
 International Paper Co. (High Grade Cotton Waste, News, also Ground Wood), Office: New York City
 Keith Paper Co. (Writing, Bond, Ledger, Wedding Bristols & Specialties)
 WALPOLE—Hollingsworth & Vose Co. (Insulating Rope, Tag, Pattern, Box Stay, Flour & Cement Sack), Office: Boston, Mass.
 WATERTOWN—Union Bag & Paper Co. (Bag & Manila), Office: New York City
 WEST DUDLEY—West Dudley Paper Mills Co. (Manila, Lining, Bogus & Specialties)
 WESTFIELD—Crane Bros. (Linen Ledger, Linen Writing, Linenold Goods)
 WEST GROTON—Groton Leather Board Co. (Heeling & Counter Board), Office: Boston, Mass.
 Hollingsworth & Vose Co. (Red Rope Roofing & Insulating, All & Part Rope Tag Pattern, Box Stay, Flour & Cement Sack & Specialties), Office: Boston, Mass.
 WHEELWRIGHT—Wheelwright, Geo. W. Paper Co. (Book Coating & Music), Office: Boston, Mass.
 WHITMAN—Jenkins, Geo. O. (Leather Board)
 WORONOCO—Woronoco Paper Co. (Bond, Ledger, Superfine, Wedding, Pasted Bristol & Typewriter)

MICHIGAN.

ALLEGAN—Dayton Folding Box Co. (Straw & Rag Wrapping, Lining & Combination Boards), Office: Cincinnati, O.
 ALPENA—Fletcher Paper Co. (Fibre, Bag & Manila, also Sulphite Fibre, Ground Wood)
 CAPAC—American Peat Paper Co. (Plain & Lined Box Boards Made of Peat)
 CHEBOYGAN—Cheboygan Paper Co. (News, also Ground Wood & Sulphite Fibre)
 CONSTANTINE—Constantine Board & Paper Co. (Express, Fibre, Ham & Box Board)
 DETROIT—Detroit Sulphite Pulp & Paper Co. (High Grade Envelope, Wrapping, Document Manila, Tag Board, Bristols, Cover & Specialties, also Sulphite Fibre)
 *Michigan Sulphite Fibre Co. ("Mitscherlich," Process Sulphite Fibre). Mills, Port Huron, Mich.
 JACKSON—Michigan Bag & Paper Co. (Bag Paper & "Ever-ready," Quick Opening Bags & Satchel Bottom & Square Bags)
 KALAMAZOO—Bryant Paper Co. (Machine Finished & Super-Calendered Book, Map, Lithograph, Label, Music, Folder, Drawing, Rag & Wood Envelope, Tinted Laid Flats & Tub Engine-Sized Writings, French Folio & Specialties)
 Kalamazoo Paper Co. (Map, Writing, Envelope, Bond, Card & Coating, Book, Lithograph & Colored & Laid Flats)
 King Paper Co. (Book, Folder, Label, Lithograph, Map, Envelope & Writing)
 Monarch Paper Co. (Machine Finished & Super-Calendered Book, Lithograph, Card, Coating, Folders & Tablet)
 Standard Paper Co. (Card Middles & Box Boards)
 MENOMINEE—Marinette & Menominee Paper Co. (See Marinette, Wis.)
 MONROE—Boehme & Rauch Co. (Patent Coated & Combination Box Boards)
 Monroe Binder Board Co. (Binders, Buggy & Backing Board)
 Monroe Paper Co. (Straw, Rag, Wrapping & Lining Papers)
 MUNISING—Munislug Paper Co. (High Grade Sulphite Fibre & Specialties)
 MUSKEGON—Central Paper Co. (Fibre Manila, also Sulphite Fibre)
 NILES—French Paper Co. (Super-Calendered & Machine Finished Book)
 *Niles Board & Paper Co. (Straw, Chip, Manila Lined & Colored Board, also Ground Wood)
 OTSEGO—Babcock Tissue Paper Co. (Tissue Papers)
 Bardeen Paper Co. (Book, Blotting, Cover, French Folio, Matrix, Map, Poster & Writing, Label, Ticket, Bible, Drug, Mimeograph, Parchment, Railroad Manila, Music, Paraffine, Coupon & Rag Papers, Felts, Ham, Express & Mill Wrappers)

Mac-Sim-Bar Paper Co. (Bristols, Sign Board, Saturating, Roofing & Deadening Felts, Card Middles, Document, Plain & Coated Box Boards, Plain & Duplex Bag, Tough Check, Rope & Fibre Papers, Cap, Wool, Building, Mill Wrappers, Corrugated Carpet Lining, Bottle Wrappers)
 Otsego Coated Paper Co. (Coated Papers, Paraffine Paper Co. etc.)
 PALMYRA—Mitchell & Son (Rag Wrapping, Sheathing & Mill Wrappers)
 PETOSKEY—Petoskey Fibre Paper Co. (No. 1 Fibre & Bag, also Sulphite Fibre)
 PLAINWELL—Michigan Paper Co. (Machine Finished Book, White & Colored French Folio, Catalogue, Pattern & Non Fading Poster)
 PORT HURON—Michigan Sulphite Fibre Co. ("Mitscherlich," Process Sulphite Fibre), Office: Detroit, Mich.
 ROCHESTER—Barnes Paper Co. (Book, News, Tobacco & Wrapping)
 ST. JOSEPH—Mullen Bros. Paper Co. (Building & Specialties)
 THREE RIVERS—Eddy Paper Co. (Card Middles, Bristols, Bogus Bristols, Bag & Specialties)
 VICKSBURG—Lee Paper Co. (Bond, Ledger, Envelope, Plated & Linen Loft-Dried Papers)
 YPSILANTI—Peninsular Paper Co. (Bond, Cover, Flats & Specialties)

MINNESOTA.

CLEARWATER—Clearwater Pulp Co. (Pulp Board)
 CLOQUET—Northwest Paper Co. (News & Manila, also Ground Wood)
 GRAND RAPIDS—Itasca Paper Co. (News, also Ground Wood)
 LITTLE FALLS—Hennepin Paper Co. (News Manila, also Ground Wood), Office: Minneapolis, Minn.
 MINNEAPOLIS—Nelson Paper Co. (Building & Roofing)
 MINNEAPOLIS—Hennepin Paper Co. (News, Manila & Ground Wood). Mills, Little Falls, Minn.
 Nelson Paper Co. (Building & Roofing)
 ST. PAUL—Union Roofing & Mfg. Co. (Roofing & Deadening Felt). Mills, Clinton, Iowa
 SARTELL—Watab Paper & Pulp Co. (News, also Ground Wood)
 WINONA—Union Fibre Co. (Degummed Flax Fibre & Mineral Wool Boards, Insulators, Building Sheathing, etc.)

MISSOURI.

KANSAS CITY—Star Paper Mill Co. (News)

MONTANA.

MANHATTAN—King & Largey Paper Mill Co. (Buildug & Wrapping)

NEBRASKA.

LINCOLN—Western Paper Mills Co. (Butchers' Manila & Straw Wrapping)

NEW HAMPSHIRE.

ASHLAND—Ashland Leather Board Co. (Veneer Leather Board), Office: Boston, Mass.
 Continental Paper Bag Co. (Tollet Papers), Office: New York City
 International Paper Co., Office: New York City
 BATH—Cushman & Rankin Co. (Fibre Leather Board)
 BENNINGTON—Monadnock Paper Mills (Machine Finished & Super-Calendered Book, English Finish, Music, Lithographic, Envelope & Coating)
 BERLIN—Berlin Mills Co. (News, also Ground Wood & Sulphite Fibre)
 *Burgess Sulphite Fibre Co. (Bleached & Unbleached Sulphite Fibre), Office: Portland, Me.
 International Paper Co. (News & Card Middles), Office: New York City
 BRISTOL—Mason-Perkins Paper Co. (News, Colored Poster & Box Lining, also Ground Wood)
 CLAREMONT—Claremont Paper Co. (Drawing, Super-Coating, Book, Manila)
 *Katahdin Pulp & Paper Co. (Sulphite Fibre). Mills, Lincoln, Me.
 EAST TILTON—East Tilton Pulp Co. (Leather Fibre Boards)

FRANKLIN—*International Paper Co. (News, No. 2 Book, Manila Specialties, also Ground Wood), Office: New York City
 GROVETON—*Odell Mfg. Co. (Fibre & Manila, also Sulphite Fibre)
 HINSDALE—Ashuelot Paper Co. (Tissue, Yellow Copying & High Grade Tissues)
 Fisk Paper Co. (White & Manila Tissue & Toilet Papers)
 Robertson Bros. (Tissue Manila in Rolls)
 Robertson, E. C. & Son (Aseptic Papers, Tissue Manila, White & Colored Tissue in Rolls & Large Sheets)
 Robertson, G. A. & Co. (Tissue Manila & Toilet, Rolls & Large Sheets)
 LINCOLN—*Henry, J. E. & Sons Co. (Sulphite Fibre)
 Henry Paper Co. (Sulphite Bag, Manila & Envelope)
 MANCHESTER—Amoskeag Paper Mills Co. (Book Paper)
 MILTON—Milton Leather Board Co. (Leather Board)
 Salmon River Paper Co. (High Grade Patent White & Colors, Single & Double Lined Manilas for Lithographic Work & Clay Coating)
 NORTH ROCHESTER—Spaulding, J. & Sons Co. (Fibre Boards), Mills, Townsend Harbor, Mass.
 PLYMOUTH—*Publishers' Paper Co. (Manilas, also Ground Wood & Sulphite Fibre)
 SUNAPEE—*Emerson Paper Co. (Book Paper, also Ground Wood)
 WADLEYS FALLS—Lee Fibre Co. (Leather & Fibre Boards)
 WEST CLAREMONT—Coy Paper Co. (Tissue Manila)
 Jarvis Paper Mills (Russell Jarvis, Prop.) (Pattern Tissue, All Rag Toilet, Sheets Jumbo Rolls), Office: Claremont, N. H.
 WEST HENNIKER—Contocook Valley Paper Co. (Book, Card & Specialties in Strong Papers)
 WEST HOPKINTON—Davis Paper Co.

NEW JERSEY.

BLOOMFIELD—Davey, E. H. Co. (Trunk, Bladders & Friction Boards, High Grade Tar Boards)
 Diamond Mills Paper Co. (Copying, Carbon, Cigarette & Tissues), Office: New York City
 BOGOTA—American Paper Co. (Paper, Paper Board & Specialties, Binders, Leather Trunk & Friction Boards)
 Traders' Paper Board Co. (Box & Lithograph Boards, Card Middles & Coating Boards)
 BOONTON—Feld & White Co. (Roofing & Deadening Felts), Office: New York City
 National Metal Molding Co. (Paper for Insulating Purposes), Office: Pittsburg, Pa.
 BUTLER—Pequannock Valley Paper Co. (Tissue Manila)
 CAMDEN—West Jersey Paper Mfg. Co. (Rope Manilas, All Grades)
 ELIZABETH—Barrett Mfg. Co. (Roofing & Building)
 GARFIELD—Hammerschlag Mfg. Co. (Waxed Papers & Tissues, Entire Product Consumed in Their Own Factory), Office: New York City
 GLOUCESTER—Gloucester Paper Co. (Building, Roofing, Sheathing & Wrapping Papers), Office: Phila., Pa.
 HAMBURG—Union Waxed & Parchment Paper Co. (Tissue & Waxed Papers)
 HOBOKEN—Hinde & Dauch Paper Co. (Rag, Jute, Chip & Corrugated Paper), Office: Sandusky, O.
 Hoboken Paper Mill Co. (Lining, Manila, Building & Specialties)
 JERSEY CITY—Davey, W. O. & Sons (Binders, Friction & Trunk Board)
 Jersey City Paper Co. (White & Colored Tissues)
 Leo, Jas. Co. (Chip & Combination Box Boards)
 Reynolds, Boyle Co. (News & Straw Board)
 LAMBERTVILLE—Gandy, Wm. H. (Tissue Manila & Copying)
 Lambertville Paper Co. (Anti-Tarnish Tissue, Yellow, Railroad Copying & Jute Manila Tissue)
 Mann, Wm. Co. (Railroad Copying & Manifold Papers), Office: Phila., Pa.
 LITTLE FERRY—Little Ferry Paper Co. (Deadening & Saturating Felts)
 MILLBURN—Diamond Mills Paper Co. (Cigarette, Pattern, Copying & Tissue), Office: New York City
 Fandango Mills (Binders Boards)

MORRISTOWN—Muir, Jas. A. (Straw Board, Binders & Leather Board)
 NEWARK—Albey Bros. (Binders, Box, Button & Trunk Board)
 Downs-Plum Co. (Box Board)
 Waverly Paper Box Board Co. (Box Boards)
 NUTLEY—La Monte, Geo. & Son (Inc.) (Safety Papers & Specialties, Bankers' Safety, Railroad Ticket, Writings & Animal-Sized Papers in Rolls, Quadrille)
 White Spring Paper Co. (White Tissue)
 PASSAIC—Clifton Paper Mills (Inc.) (Box Boards)
 PLEASANT MILLS—Pleasant Mills Paper Co. (Rope Manila), Office: Phila., Pa.
 RIEGELSVILLE—Warren Mfg. Co. (Manila, Jute & Rope, Rope Bristol in 15 Colors), Office: New York City
 SCOTCH PLAINS—Seeley Paper Mills Co. (Binders, Friction & Pattern Boards)
 WANAQUE—Wanaque River Paper Co. (Super-Calendered & Machine Finished Book), Office: New York City
 WHIPPANY—McEwan Bros. (News & Folding Paper Box Boards)
 United Box Board & Paper Co. (Patent News Board & Chipped Board), Office: New York City

NEW YORK.

AMSTERDAM—Smeallie, P. H. & Co. (News & Chipped Board)
 ANCRAM—Ancram Paper Mill (White, Colored, Manila & Anti-Rust Tissue & Specialties in Tissue), Office: New York City
 AUSABLE CHASM—Estes, Herbert (Heavy Sulphite Screening & Wrapping)
 AUSABLE FORKS—*Rogers, J. & J. Co. (Bag, Envelope, Hardware & Manila, also Sulphite Fibre)
 BALLSTON SPA—*Ballston Pulp & Paper Co. (Manila, Tissue, Light Weight Papers, Roll & Package Toilet a Specialty)
 National Folding Box & Paper Co. (Manila, Board & Single & Double Lined Chip Box Board), Office: New Haven, Conn.
 *Union Bag & Paper Co. (Bag & Manila, also Sulphite Fibre), Office: New York City
 BATTENVILLE—Phoenix Paper Co. (White & Manila Tissue Sheets & Jumbo Rolls), Office: Greenwich, N. Y.
 BEAVER FALLS—*Lewis, J. P. Co. (Manila, Jute & Combination Boards, also Ground Wood)
 *Lewis, Slocum & Lefevre (Ground Wood)
 Lewis & Slocum (Wood Pulp & Sulphite Boards in Natural Colors & Tints & Milk Bottle Cap Stock)
 BLACK RIVER—Jefferson Board Mills (Pulp Boards)
 Jefferson Paper Co. (Manila, Waterproof Butchers' Manila, Hanging, Wax Papers, etc., also Ground Wood)
 *Jefferson Power Co. (Hanging, Sulphite Fibre & Ground Wood)
 BLOSSVALE—Blossvale Paper Co. (White & Manila Tissue)
 BRAINARD—Barnes, W. D. (Chip, White Lined Boards & Mixed Paper Stock Boards)
 BROWNVILLE—*Brownville Board Co. (Tag Board, Document & Manila & Manila Folding Box Boards, also Ground Wood)
 *Brownville Paper Co. (Railroad Manila, Colored Poster, Glazed Fibre & Colored Specialties, also Ground Wood)
 *Harmon Paper Co. (Book, News, Manila & Colored Specialties, also Ground Wood)
 CANAAN—Queechy Paper Co. (Straw Cigarette, Straw Wrapping, Tobacco Pulp & Tissue)
 CARTHAGE—*Carthage Sulphite Pulp Co. (Sulphite Fibre)
 *Carthage Tissue Paper Mills (Manila, White & Colored Tissue & Toilet Paper, Packages & Rolls)
 *Champion Paper Co. (Manila, also Ground Wood)
 *Empire Sulphite Pulp Co. (Sulphite Fibre)
 *Island Paper Co. (Manila, Bag & Dry Fibre, also Ground Wood)
 Leray Paper Co. (Tag, Wrapping Screening & Heavy Weight Papers)
 *West End Paper Co. (News)
 CASTLETON—Fort Orange Paper Co. (Buckskin & Columbia Box Boards, Card Middles, Silk Wrappers, Jacquard Boards, Featherweight Textile Boards), Office: New York City
 Ingalls & Co. (Binders, Friction, Trunk, Wagon, Pattern, Leather & Album Board)

CHATEAUGAY—*Chateaugay Pulp Co. (Ground Wood)
 *High Falls Pulp & Paper Co. (News, Hanging, also Ground Wood)
 CHATHAM—Stony Brook Box Board Mills (Box Boards)
 CHATHAM CENTER—Columbia Mills (Straw Wrapping & Bogus)
 CLAYVILLE—Clayville Paper Co. (Manila, White & Colored Tissues), Office: Syracuse, N. Y.
 COHOES—*Gilbert & Bell (Ground Wood), Office: Watertown, N. Y.
 Leversee & Snyder Mfg. Co. (Chip Boards)
 DANSVILLE—Dansville Paper Mill (J. H. McNairn, Prop.) (White & Colored Tissues), Office: Toronto, Canada
 DE FERIET—*St. Regis Paper Co. (News, also Ground Wood & Sulphite Fibre), Office: Watertown, N. Y.
 DEXTER—*Dexter Sulphite Pulp & Paper Co. (Fibre Wrapping & Bag Papers, also "Mitcherlich" Sulphite Fibre & Ground Wood)
 *Jefferson Power Co. (Hanging, also Ground Wood), Office: Black River, N. Y.
 FALLSBURG—Lefevre, Edw. Y. (Cloth Lined Tissue, Crinkled & Light Weight Manila)
 FAYETTEVILLE—Lawless Paper Co. (Manila & Tissue), Office: Rochester, N. Y.
 FELTS MILLS—*Taggart's Paper Co. (News & Colored Poster & No. 2 Manila, also Ground Wood), Office: Watertown, N. Y.
 FORESTPORT—*Pennington, A. R. & Co. (Ground Wood)
 FORT ANN—*Kanes Falls Pulp Co. (Ground Wood)
 FORT MILLER—*Fort Miller Pulp & Paper Co. (Hanging, also Ground Wood)
 FORT PLAIN—Wood & Nellis (Air-Dried Straw Board)
 Yoran, Levi (Air-Dried Straw Board)
 FULTON—*Battle Island Paper Co. (Sulphite Fibre)
 Eureka Paper Co. (Rope, Fibre, Express, Manila & Saturating & Specialties)
 *Fulton Paper Co. (Ground Wood)
 Granby Paper Co. (Light Weight Manilas, News & white Lining)
 *Oswego Falls Pulp & Paper Co. (News, Hanging, Wood Pulp & Combination Board)
 Victoria Paper Mills Co. (Cotton Sampling, Fruit Wrapping, Leather Board, Manila, Rope, Sack, Tissue, Tissue Manila, Flour & Nail Sacks & Sugar Bags)
 Volney Paper Co. (Saturated Felts)
 GLENS FALLS—*International Paper Co. (News & Hanging, also Ground Wood), Office: New York City
 *Finch, Pruyn & Co. (Inc.) (News & Half-Tone, also Ground Wood)
 GOUVERNEUR—*Aldrich Paper Co. (Wood Pulp), Office: Watertown, N. Y.
 Continental Paper Bag Co. (High Grade White, Colored & Manila Tissues), Office: New York City
 GREAT BEND—*Taggart's Paper Co. (Hanging & Tablet), Office: Watertown, N. Y.
 GREENWICH—*Blandy Paper Co. (Tag, Manila & Special Papers for Glazed Paper & Cardboard), Office: Schuylerville, N. Y.
 *Mohican Pulp & Paper Co. (Ground Wood), Mills, Melville, N. Y.
 HADLEY—*Union Bag & Paper Co. (Bag & Manila, also Ground Wood), Office: New York City
 HANNAWA FALLS—*Hannawa Falls Water Power Co. (Ground Wood)
 HARRISVILLE—*Diana Paper Co. (Tissue & Light Weight Colored, also Ground Wood)
 HERKIMER—International Paper Co. (News, Manila & Fibre Papers), Office: New York City
 HERRING—Jefferson Board Mills Co. (Box, Tag & Wood Pulp Board), Office: Black River, N. Y.
 *Jefferson Power Co. (Sulphite Fibre), Office: Black River, N. Y.
 HINCKLEY—*Hinckley Fibre Co. (Sulphite Fibre)
 HEWITTVILLE—*Racquette River Paper Co. (Ground Wood)
 HONEOYE FALLS—Parry, Sam'l R. Paper Stock & News Board)
 ITHACA—Ithaca Paper Co. (Building & Wrapping)
 JOHNSONVILLE—Sprague, Watson N. (Heeling Board)
 LESTERSHIRE—Endicott-Johnson Co. Manufacture Leather Board for Their Own Use)

LITTLE FALLS—Hoffman Paper Co. (White & Manila Tissue & Toilet Paper)
Klingston's, Wm. Son (Roofing, Dry, Saturating & Deadening Felts, Building & Carpet Linings)
Little Falls Paper Co. (Tissue & Tissue Manila), Office: Newburgh, N. Y.
LOCKPORT—*Cascade Wood Pulp Co. (Ground Wood)
Lockport Paper Co. (Roofing, Deadening, Sheathing & Heavy Wrapping)
*United Box Board & Paper Co. (Manilla, Coated & Combination Boards, Card Middles & Specialties), Office: New York City
*United Indurated Fibre Co. (of N. J.) (Indurated Ware & Ground Wood)
LYONSDALE—Ager, C. Leonard J. (Straw & Shivy Fibre)
*Moyer & Pratt (Manila & Fibre, also Ground Wood)
LYONS FALLS—Gould Paper Co. (News, No. 2 Manila, also Sulphite Fibre & Ground Wood)
*International Paper Co. (Ground Wood), Office: New York City
MALONE—*Malone Paper Co. (News, also Ground Wood)
MARCELLUS FALLS—Onondaga Paper Co. (Screening, Express, Fibre, Manila & White Tissue, Colored Specialties)
Marcellus Paper Co. (Express, Screenings, Mill Wrappers & Hardware), Office: Syracuse, N. Y.
MASSENA—Indestructible Fibre Co. (Fibre Boards), Office: New York City
McKEEVER—See Thomson, N. Y.
MECHANICSVILLE—*West Virginia Pulp & Paper Co. (Machine Finished & Super-Calendered Book, Lithograph & Varnish Label, also Bleached Soda & Sulphite Fibre), Office: New York City
MELLENVILLE—Berkshire Box & Paper Co. (Box Board, Wrapper, Card Middles, Lined & Unlined Folding Box Board)
*Mohican Pulp & Paper Co. (See Greenwich, N. Y.)
Vogel, J. F. (Light Bogus, Groceries' & Butchers' Manila)
MIDDLE FALLS—Bosson Mfg. Co. (Leather & Fibre Board)
*Stevens & Thompson Paper Co. (Tissue & Manila Tissue, also Ground Wood)
MONTEZUMA—Montezuma Fibre Co. (Air-Dried Board Made from Flag)
MUMFORD—Gardner, L. H. Paper Co. (Manila Tissue & Toilet)
NAPANOCH—Frost & Sons Paper Co. (No. 1 White & Jute Tissues)
Napanoch Mfg. Co. (See Jno. C. Hoornbeck, Wawarsing, N. Y.)
Young & Humphrey (Bogus Wrapping)
NATURAL DAM—*Aldrich Paper Co. (News, Manila & Hanging, also Ground Wood & Sulphite Fibre)
NEWARK—International Egg Carrier & Paper Co. (Mill Wrappers, Wrapping & Building Papers)
NEWBURGH—Little Falls Paper Co. (White & Manila Tissue)
NEW HAMPTON—Diamond Mills Paper Co. (Tissue), Office: New York City

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Bainbridge's, Chas. T. Sons (White Tissue Used in Our Own Manufacturing of Crepe Tissue & Paper Napkins), 2 Cumberland
Johns, H. W.-Manville Co. (Asbestos Paper & Mill Board), ft. of 39th; Office, 100 William, New York
Thompson & Norris Co. (Straw & Fibre Paper for Corrugating & Corrugated Paper & Bottle Packing), cor Concord & Prince, Mills, Brookville, Ind.
Warren Mfg. Co. (Rope Paper, Sand Paper, Music Paper, Rope, Tag & High Grade Specialties Made from Manila Fibre), Meadow & Bogart

Boroughs of Manhattan & Bronx.

NEW YORK—Ancram Paper Mills (White, Colored, Manila & Anti-Rust Tissue & Specialties in Tissue), 201 Wooster, Mills, Ancram, N. Y.
Barrett Mfg. Co. (Roofing Felt), 17 Battery pl. Mills, Peoria, Ill.
Bulkley, Dunton & Co. (Card Middles, Book, etc.), 75 Duane, Mills, Bancroft, Mass.

Continental Paper Bag Co. (Toilet Papers, High Grade White Colored & Manila Tissues, Lightweight Specialties), 6 Battery pl
Diamond Mills Paper Co. (Copying, Carbon, Pattern, Cigarette Tissues, Typewriter & Silver Tissue)
Field & White Co. (Roofing & Deadening Felts), 116 Nassau
Fort Orange Paper Co. (Buckskin & Columbia Box Boards, Card Middles, Silk Wrappers, Jacquard Boards), 74 Duane
*Great Northern Paper Co. (News & Manila Paper, Sulphite Fibre & Ground Wood), 49 Wall. Mills, Madison, Me.
Indestructible Fibre Co. (Fibre Boards), 45 B'way, Massena, N. Y.
*Interlake Pulp & Paper Co. ("Mitscherlich," Process Sulphite Fibre & Ground Wood), 51 Wall. Mills, Appleton, Wis.
*International Paper Co. (News, Manillas, Fibre), 30 Broad
Johns, H. W.-Manville Co. (Asbestos Paper & Mill Board), 100 William
New York & Penna Co. (Soda Fibre Dry in Rolls, Bond, White & Colored Machine Finished & Super-Calendered Book, Cover, Envelope Label, Railroad Manila & Writing, Bleached Sulphate, Bay, Express, Fibre, Hardware, etc.), 200 5th av
*Ticonderoga Pulp & Mill Co. (Book, Writing, Magazine & Coating; also Soda Fibre), 200 5th av. Mills, Ticonderoga, N. Y.
*Union Bag & Paper Co. (Blank Wall Paper, Manila, Fibre, Express, Bag), 17 Battery pl
United Box Board Co., 200 5th av
Walker, J. H. (Book Envelope & Writing), 261 B'way. Mills, Riverside, Conn.
Wanaque River Paper Co. (Super-Calendered & Machine Finished Book), 290 B'way. Mills, Wanaque, N. J.
Warren Mfg. Co. (Manila, Jute & Rope, Rope Bristol in 15 Colors), 41 Park Row. Mills, Riegelsville, N. J.
*West Virginia Pulp & Paper Co. (Machine Finished & Super-Calendered Book, Lithograph & Varnish Label; also Bleached Soda & Sulphite Fibre, Writing, Blank Book, Tablet, Ground Wood), 200 5th av
York Haven Paper Co. (Colored Fibre, Express, Waterproof Building, Roofing & Insulating & "X Loid" Prepared Roofing; also Ground Wood & Sulphite Fibre), 290 B'way. Mills, York Haven, Pa.

Borough of Queens.

LONG ISLAND CITY—Ravenswood Paper Mill Co. (Straw & Plain Colored Chip Board, Lined or Unlined)
(End of New York City)
NIAGARA FALLS—*Cliff Paper Co. (News, Rolls, Sheets, Hanging, also Ground Wood)
*International Paper Co. (News & Manillas), Office: New York City
Lockport Paper Co. (Building, Roofing, Wrapping & Deadening Felts), Office: Lockport, N. Y.
*Niagara River Mfg. Co. (Ground Wood)
*Pettebone-Cataract Paper Co. (Roll & Sheet News, also Ground Wood)
NORFOLK—Raymondville Paper Co. (Ground Wood), Office: Watertown, N. Y.
Remington-Martin Co. (News & Hanging, also Sulphite Fibre & Ground Wood), Office: Watertown, N. Y.
NORTH HOOSICK—Stevens & Thompson (Inc.) (Specialties in Colors)
NORWOOD—St. Lawrence County—*Norwood Paper Co. (News, also Ground Wood), Office: Watertown, N. Y.
ORISKANY FALLS—Oriskany Falls Paper Box Co.
PALATINE CHURCH—See St. Johnsville, N. Y.
PALMER—*International Paper Co. (Sulphite Fibre & Ground Wood), Branch of New York
PENFIELD—Lawless Paper Co. (Waterproof Bogus), Office: Rochester, N. Y.
PENN YAN—Andrews, John T. & Co. (Butchers' Manila, Bogus, Wrapping & Sheathing)
Fox, W. H. & Son (Straw Wrapping)
Ramsey, E. R. Co. (Leather Board & Insulating Fibre)
Seneca Mills Corporation (Manila Tissue)

PHOENIX—Carrier, Leman J. Mfg. Co. (Tissue Manila)
Crescent Paper & Machine Co. (Tissue Manila)
Oswego River Paper Mills (Tissue for Toilet Papers, All Kinds of Packages & Roll Toilet Papers Our Specialty)
Phoenix Toilet & Paper Mfg. Co. (Manila Tissue & Toilet)
Sweet Bros. Paper Mfg. Co. (White, Colored & Manila Tissue)
PIERCEFIELD—*International Paper Co. (Manila, also Ground Wood & Sulphite Fibre), Office: New York City
PIERMONT—Piermont Paper Co. (Patent Coated Pulp Lined & Other Folding Box Boards & White Blanks)
PLATTSBURG—*Lake Champlain Pulp & Paper Co. (Bag, Hanging, News, Manila Tissue, also Ground Wood)
*Progressive Pulp & Paper Co. (Bag, News, Hanging & Ribbon, also Ground Wood)
*Saranac Co. (Ground Wood)
PORT LEYDEN—Gould Paper Co. (Heavy Manila & Drab Express), Office: Lyon Falls, N. Y.
POTSDAM—*Raquette River Paper Co. (Manila, Manila Envelope Fibre, Bag, Express & Parchment, also Sulphite Fibre)
Potsdam Paper Mills (Hangings)
PYRITES—De Grasse River Paper Co. (Sulphite Bag & Manila, also Ground Wood & Sulphite Fibre)
RAYMONDVILLE—Raymondville Paper Co. (News & Hanging, also Ground Wood), Office: Watertown, N. Y.
ROCHESTER—Flower City Tissue Mills Co. (White, Colored & Manila Tissue, All Grades of Fourdrinier White Tissues)
Lawless Paper Co. (Manila & Tissue, Waterproof)
ROCK CITY FALLS—Brown, E. M. Paper Co. (Card Middles, Coating, Manila & Dux-Moran-Chalfant Paper Co. plex)
SALISBURY MILLS—Arlington Paper Co. (Book & Writing)
SANDY HILL—*Union Bag & Paper Co. (Blank Wall Paper, Manila, Fibre, Express & Bag, also Ground Wood & Sulphite Fibre), Office: New York City
ST. JOHNSTOWN—Smith, Isaac E. (Straw Board)
SAUGERTIES—Diamond Mills Paper Co. (Typewriter, Copying, Carbon, Silver Tissue & Cigarette), Office: New York City
SCHUYLERVILLE—*American Wood Board Co. (Tag Manila & Special Paper for Glazed Paper & Cardboard, also Ground Wood)
Schuylerville Paper Co. (Book & News)
*United Box Board & Paper Co. (Jute Fibre Boards), Office: New York City
SENECA FALLS—Ingersoll, E. S. & Son (Tissue Manila)
SKANEATELES—Lakeside Paper Co. (Mill Wrappers)
Skaneateles Paper Co. (Boards & Mill Weeks, Chas. G. Co. Wrappers)
Weeks, F. G. (News, Fibras, Colored Hanging & Specialties)
SKANEATELES FALLS—Weeks, Thorne Paper Co.
SOUTH EDWARDS—*Carthage Tissue Paper Mills (Ground Wood), Office: Carthage, N. Y.
STILLWATER—Pemble, Wm. & Sons (Straw Board, Leather Board, Counter Board)
Upton Paper Co. (Chip & Straw Board)
STOCKPORT—Vande Carr, C. R. (Bag & Straw Wrapping & Common Bogus, No. 2 Straw, Cigarette & Carpet Lining)
SYRACUSE—Marcellus Paper Co. (Express, Screenings, Mill Wrappers & Hardware), Mills, Marcellus, N. Y.
THOMSON—*Iroquois Pulp & Paper Co. (Hanging & News, also Ground Wood)
TICONDEROGA—*International Paper Co. (News, also Ground Wood), Office: New York City
*Ticonderoga Pulp & Paper Co. (Book, Writing, Magazine & Coating, also Soda Fibre), Office: New York City
TONAWANDA—Tonawanda Board & Paper Co. (Solid & Filled Jute Boards, Plain & White Pulp Lined Eureka Boards, Straw Chips, Solid & Filled News Board, Solid & Filled Pulp Boards, Box & Barrel Layers, Combination Boards, Patent Coated Boards, Colored Boards, Trunk, Textile, Binders, Cloth, Picture, Furniture & Buggy Back Boards)

TROY—Albla Box & Paper Co. (Box Boards, Plain, Combination & Mill Sheet Lined)
Manning, John A. Paper Co. (Rope Manila Paper for Sand Paper, Flour & Cement Sacks & Insulating)
Orr Company (Fourdrinier White Tissue, Typewriter, Copying, Carbon, Silver & Cigarette Tissue)
UTICA—Foster Box Board Co. (Box Board)
VALATIE—Davis & Richmond (Bogus, Carpet Lining & Light Straw Wrappers)
WALESVILLE—McKinnon Leather Board Co. (Leather Board)
WALLOOMSAC—Waloomsac Paper Co. (Colored Wall Papers, Ingrains & Specialties)
WARRENSBURG—*Schroon River Pulp & Paper Co. (News & Hanging, also Ground Wood)
WATERFORD—Gilbert, Frank Paper Co. (Colored Specialties, Coating, Cover, Interleaving Blotting, Book, Tablet & News)
WATERTOWN—*Aldrich Paper Co. (News, Manila & Hanging, also Ground Wood)
Continental Paper Bag Co. (Manila Tissue, Roll Toilet & Lightweight Specialties), Office: New York City
*International Paper Co. (News, Manillas, also Sulphite Fibre & Ground Wood), Branch of New York City
*Norwood Paper Co. (News & Ground Wood), Mills, Norwood, N. Y.
*Raymondville Paper Co. (News, Hanging & Ground Wood), Mills, Norfolk, N. Y., & Raymondville, N. Y.
*Remington, Martin Co. (News, Hanging, Sulphite Fibre & Ground Wood), Mills, Norfolk, N. Y.
*St. Regis Paper Co. (News, Ground Wood & Sulphite Fibre), Mills, De Feriet, N. Y.
*Taggart Paper Co. (News, Colored Poster, No. 2 Manila, Hanging, Tablet & Ground Wood)
WAWARSING—*Hoornbeck, Jno. C. (Wood Floor)
WILLSBORO—New York & Penna. Co. (Soda Fibre Dry in Rolls, also Paper)

NORTH CAROLINA.

CANTON—*Champion Fibre Co. (Soda & Sulphite Fibre), Office: Hamilton, O.
NEWBERN—Carolina Paper Pulp Co. (Fibre Manillas, also Soda & Sulphite Fibres)
ROANOKE RAPIDS—Roanoke Fibre Board Co. (Document Manila, Corn Middles & Ticket Paper)
*Roanoke Rapids Paper Mfg. Co. (Butchers' Manila & Fibre, also Ground Wood)

OHIO.

AKRON—Phillips, Thos. Co. (Rope, Cement, Flour, Feed & Lime Sack Papers, Sand & Sign Paper)
BALTIMORE—Fairfield Paper Co.
Twin City Paper Co. (Glazed & Machine Finished Hardware, Express & Rope)
BARBERTON—American Straw Board Co. (News Board, Paper Stock Board, White Coated Combination & Pulp Lined Boards), Office: Chicago, Ill.
BOSTON—Jaite Co. (Rope Specialties, Cement, Flour & Charcoal Bag Papers)
BOSTON HILL—See Cleveland, O.
CEDARVILLE—Hagar Straw Board & Paper Co. (Light Straw Board & Wrapping, Tube Egg Case & Corrugating), Office: Xenia, O.
CHAGRIN FALLS—Adams Bag Co. (Manila Rope for Flour & Cement Sacks), Office: Cleveland, O.
CHILLICOTHE—*Mead Pulp & Paper Co. (Book, Lithograph & Writing, Enameline & Ivory Half-Tone in White & Colors), Office: Dayton, O.
CINCINNATI—Dayton Folding Box Co. (Straw & Rag Wrapping, Lining & Combination Boards), Mills, Allegan, Mich.
Knew Board & Paper Co. (Box Boards), Mills, Kokomo, Ind.
CIRCLEVILLE—American Straw Board Co., Office: Chicago, Ill.
CLEVELAND—Adams Bag Co. (Manila Rope for Floors & Cement Sacks)
Cleveland-Akron Bag Co. (Rope, Flour Sack & Manillas)
*Cleveland Paper Mfg. Co. (Book, Colors, Colored & News)
Ohio Box Board Co. (Box Boards, Including Patent Coated, Jute, Manila Lined News, etc.), Mills, Rittman, O.

COSHOCOTON—Coshocot Straw Paper Co. (Straw Paper for Corrugating & Straw Wrapping)
CUYAHOGA FALLS—Walsh Paper Co. (Inc.) (Milton, Starch, Macaroni, Tailors' Pattern & Colored Specialties)
DAYTON—Aetna Paper Co. (Bonds, Ledgers, Lining & Flats)
American Straw Board Co., Office: Chicago, Ill.
Knerr Board & Paper Co. (Binders Board), Neave bldg
*Mead Pulp & Paper Co. (Book, Lithograph & Writing, Enameline & Ivory Half-tone in White & Colors), Mills, Chillicothe, O.
Snider Paper Co. (Roofing & Felt)
Terra Haute Paper Co. (Corrugating, Tube & Egg Case Boards, Straw & Rag Wrapping), Mills, Terra Haute, Ind.
DELPHOS—Hinde & Dauch Paper Co. (Straw Wrapping & Light Straw Board), Office: Sandusky, O.
FRANKLIN—American Writing Paper Co. (Writing), Office: Holyoke, Mass.
Franklin Board & Paper Co. (Patent Coated, News, Manila, Lined Chip, Paper Stock, Jute, Pulp & Combination Board)
HAMILTON—Beckett Paper Co. (Colored Covers & Specialties)
Champion Coated Paper Co. (Book, Manila & Cardboard)
*Champlon Fibre Co. (Fibre Board & Soda & Sulphite)
Sterling Paper Co. (Writing & Envelope Paper), Office: West Carrollton, O.
LIMA—American Straw Board Co. (Straw Board, Plain, Mill & Sheet Lined; Egg Case & Board Fillers), Office: Chicago, Ill.
LOCKLAND—Bowen, Ebenezer (Carpet Lining, Cloth Building, Roofing, Bottle Wrapper, Candy, Furniture, Tarred Roofing & Slaters' Felt), Office: Cincinnati, Ohio
Carey, Philip Mfg. Co. (Asbestos Mill Board & Roofing Felt)
Fox Paper Co. (Wrapping, Building, No. 2 Butchers' Manila, Expresses & Carpet Lining, etc.)
Richardson Paper Co. (Wrapping, Roofing & Specialties in Felt, Box & Other Boards)
MASSILLON—Massillon Paper Co. (Straw Wrapping)
Munroe Falls Paper Co. (Carpet Lining, Express, Straw & Rag Wrapping, Building, Absorbent, Fly Paper, Fireworks Paper, Deadening Felt & Roofing)
MAUMEE—Maumee Paper Co. (Colored, Cover, Mask, Porous Fly, Tobacco, Macaroni, Ham, Firework, Express, Ingrain Bag Pattern, Candle, News, Hardware, Butchers' Manila, Cap Felt & Rag Wrapping)
MIAMISBURG—Miamisburg Paper Co. (Book, News, Envelope, Butchers' & No. 2 Manila)
Ohio Paper Co. (Bottle Wrappers, Carpet Lining & Saturating Felt)
MIDDLETOWN—Crystal Paper Co. (White, Colored & Manila Tissue & Wax Paper)
Gardner, Colin Paper Co. (Patent Coated Box Boards, News Board, Manila Lined Chip Boards, Combination Boards & White Blanks)
Gardner-Harvey Paper Co. (Box Boards, Harding Paper Co. (Writing) etc.)
National Box Board Co. (Box Boards)
Oglesby, W. B. Paper Co. (Card & Writings)
Sorg, Paul A. Paper Co. (Jute & Manila Rope Specialties, Tissues & White Wax)
Wardlow-Thomas Paper Co. (Rope & Jute Manila)
Wrenn Paper Co. (Blotting Papers, Brands ("Wrenn's Best," "Wrenn's Record," "Mosaic," "Miami," "Antlers," "Enameled," "Royal Colors."))
MUNROE FALLS—Munroe Falls Paper Co. (Carpet Lining, Express & Fireworks Paper, Deadening Felt & Roofing), Office: Massillon, O.
PIQUA—American Straw Board Co. (Straw, Combination & Pulp Lined Board, News & Chip Board), Office: Chicago, Ill.
RITTMAN—Ohio Box Board Co. (Box Boards All Grades, Including Patent Coated, Jute, Manila Lined, News Board), Office: Cleveland, O.
SANDUSKY—Hinde & Dauch Paper Co. (Straw Wrapping, Light Strawboard & Corrugated Paper Specialties)
Mendel, A. E. Co. (Binders, Trunk, Backing & Leatherboard)

ST. MARYS—Western Straw Board Co. (Plain & Oak Grained Jute Boards, Combination Filled Wood & Chip Boards & Plain & Lined Straw Board)
STEUBENVILLE—*Hartje Paper Mfg. Co. (Manila, News, Fibres, Carpet Lining, Building Papers, Mill Wrappers, Straw, Chip & Pulp Board, Specialties; No. 1 & No. 2 Waterproof Fibres, Butchers' Fibre, Butchers' Waterproof Manila & Rosin-Sized Sheathing, also Ground Wood & Sulphite Fibre), Office: Pittsburgh, Pa.
TIFFIN—American Straw Board Co. (Steam-Dried Straw Boards, Plain, Mill Lined & Sheet Lined)
TIPPECANOE CITY—American Straw Board Co. (Steam-Dried Straw Board, Extra Smooth; Match Box Board; Pulp Lined Board)
URBANA—United Box Board & Paper Co. (Straw Board), Office: New York City
WEST CARROLLTON—*Friend Paper Co. (Book & Writing, Sulphite)
Stirling Paper Co., Office: Hamilton, O.
XENIA—Hagar Straw Board & Paper Co. (Light Straw Board, Straw Wrapping, Tube, Egg Case & Corrugated), Mills, Cedarville, O.
Xenia Board & Paper Co. (Manila Lined & Colored Boards, Chip & News Board; also Pasted Boards), Office: Indianapolis, Ind.

OREGON.

LEBANON—*Lebanon Paper Co. (Straw Wrapping, Fibre & Manila, also Sulphite Fibre), Office: San Francisco, Cal.
OREGON CITY—*Crown-Columbia Pulp & Paper Co. (Manila, Flaxina, Express, Bag, Fruit, Paraffine & Wrapping, also Ground Wood & Sulphite Fibre), Office: San Francisco, Cal.
*Willamette Pulp & Paper Co. (News, also Ground Wood & Sulphite Fibre), Office: San Francisco, Cal.
WARRENDAL—*Crown-Columbia Pulp & Paper Co. (Ground Wood & Paper), Office: San Francisco, Cal.

PENNSYLVANIA.

ALDHAM—Janowski, Morris (Binder & Builders' Board)
AMBLER—Keasbey & Mattison Co. (Asbestos Sheathing & Mill Board)
ATGLEN—Hults, Ellsworth H., Jr. (Binders, Trunk, Box & Carriage Boards), Office: Phila., Pa.
ANSTIN—*Bayless Pulp & Paper Co. (Pure Fibre Papers, also Sulphite Fibre)
AVONDALE—Keating, Jos. M. (Binders & Box Board)
BLOOMSBURG—Bloomsburg Paper Co. (Waterproof Cartridge)
BRIDGEPORT—Bicking Paper Co. (Mill Wrappers & Box Boards), Office: Phila., Pa.
Diamond State Fibre Co. (Fibre Paper), Office: Eismere, Del.
BUCK RUN—Garrett, C. S. & Son Co. (Hanging, Middle & Fibre), Office: Phila., Pa.
CHAMBERSBURG—Hollywell Paper Mills (Bonbrake, E. J., Prop.) (Building, Dry Roofing, Manila)
CHESTER—Garrett, Edwin (Fine Tissue, Manila, Colored), Mills, Beaver Valley, Del.
CHESTERVILLE—See Landenberg, Pa.
CHEYNEY—Cullen, Lewis C. (Roofing Felt, Sheathing, Carpet Lining, Plain & Corrugated Deadening Felt & Building)
CLY—Susquehanna Roofing Mfg. Co. (Roofing, Rosin-Sized Sheathing & Deadening Felt)
DOE RUN—Palmer, Willis B. (Binders & Jacquard Boards)
DOWNINGTOWN—Gule, Jas. & Sons (Mill Wrappers)
Robinson, Chas. W. (Binders, Trunk, Air-Dried Straw & Box Boards)
EAST DOWNINGTOWN—Bickling, S. Austin (Est. of) (Wrapping, Rosin-Sized Sheathing & Corrugated Wrapping)
Kerr Paper Mill Co. (Box, Binders & Tar Board)
Miller, Frank P. Paper Co. (Patent Coated, Folding Box, News & Vat-Lined Chip Boards)
ERIE—Hammerhill Paper Co. (Bond, Ledger, Superfine, Lined Laid Writing & Specialties)
WATSON, H. F. CO. (Asbestos, Building, Carpet Lining, Manila & Roofing). (See adv. index, end of book)
GLEN MILLS—Glen Mills Paper Co. (Vegetable Parchment, Music, Fibre & All Rag Specialties), Office: Phila., Pa.

HONEY BROOK—See Lyndell, Pa.
HUNTINGTON MILLS—Koons, J. R. & Son (Straw & Bogus, No. 2 Manila & Specialties, Light Weights for Export a Specialty)
JOHNSONBURG—*Highland Paper Co. (Dry Soda Fibre), Office: Fitchburg, Mass.
 *New York & Pennsylvania Co. (Bond, White & Colored, Machine Finished & Super-Calendered Book, Cover, Envelope, Label, Lithograph, Railroad Manila & Writing, also Bleached Sulphite), Office: New York City
LANCASTER—Cecil Paper Co. (Hanging), Office: York, Pa.
LANDENBERG—Lysle, Wilson (Est. of) (Fibre Paper)
LATROBE—Peters Paper Co. (Carpet Lining, Roofing & Sheathing)
LITITZ—Consumers' Box Board & Paper Co. (Tissues, Sheets & Rolls)
LOCK HAVEN—*New York & Pennsylvania Co. (Bag, Express, Fibre, Hardware, Press Board, Writing, Book, Parchment, Cover, Manila, Coating & Specialties, also Soda Fibre), Office: New York City
 Lyndell, Lemmon, Sam'l (Air-Dried Straw Boards a Specialty, Cloth & Box Boards)
MADENA—Megarge Paper Mills (Inc.) (All Rag Waterleaf for Parchmentizing & Vulcanizing), Office: Phila., Pa.
MOUNT HOLLY SPRINGS—Mount Holly Paper Co. (Writing)
NEW CASTLE—Dilworth Paper Co. (Glazed & Calendered Rope Express, Hardware, Sugar Bag & Anti-Rust), Office: Pittsburgh, Pa.
NEW HOPE—Union Mills Paper Mfg. Co. (Building & Manila Rope for Insulating)
NORTH WATER GAP—*Analomink Paper Co. (Manila, Fibre & Colored Specialties, also Ground Wood & Sulphite Fibre)
NOTTINGHAM—Graves, W. L. (Binders & Box Board)
PENNSBURG—Perkiomen Paper Co. (Binders, Trunk & Box Boards)
PHILADELPHIA—Albany Paper Co. (Plain & Lined Straw Board), Phila. Bourse, Phila., Pa. Mills, Albany, Ind.
 Baeder, Adamson & Co. (Manila for Own Use in Making Sand Paper), Delaware River & R. R.
 Bicking Paper Co. (Mill Wrappers & Box Boards), 517 Willow, Mills, Bridgeport, Pa.
 Cheney River Paper Co. (Manila, White & Colored Fibres & Specialties; also Sulphate), Land Title bldg. Mills, Richwood, W. Va.
 *Dill & Collins Co. (Book & Surface Coated, High Grade Machine Finish, Super-Calendered Book & Surface Coated Papers for Printing from Half-Tone Engravings, Color Plates, Aluminum & Lithographic Stone), 827 Filbert
 Empire Paper Co. (Plain & Lined Straw Board), Bourse bldg. Mills, Vincennes, Ind.
 Garrett, C. S. & Son Co. (Hanging, Card Middles & Fibre, Machine Finished Book)
 Glen Mills Paper Co. (Vegetable Parchment, Music, Fibre and All Rag Specialties), Stephen Girard bldg. Mills, Glen Mills, Pa.
 Gloucester Paper Co. (Building, Roofing, Sheathing & Wrapping Papers), Harrison bldg. Mills, Gloucester, N. J.
 Huits, Ellsworth H., Jr. (Binders, Trunk, Box & Carriage Boards), 25 N 6th, Mills, Atglen, Pa.
 Jessop & Moore Paper Co. (Book Paper & Soda Fibre), 28 S 6th, Wilmington, Del.
 Lang, John Paper Co. (Roofing, Saturating & Deadening Felts), 24th & Vine
 McDowell Paper Mills (Colored & Herenies Fibre, Drug, Book, Bag, Manifold, Heavy & Light Weight Colored Specialties of All Kinds), Manayunk
 Mann, Wm. Co. (Railroad Copying & Manifold Papers), 529 Market, Mills, Lambertville, N. J.
 Megarge Paper Mills (Inc.) (All Rag Waterleaf for Parchmentizing & Vulcanizing), Drexel bldg. Mills, Modena, Pa.
 Moorhouse, R. T. (White & Colored Machine Finished & Super-Calendered Book, Colored Cover, Manila, Poster, News, Wrapping & Colored Specialties), Bridesburg
 *National Metal Edge Box Co. (Jute Folding Box Boards; also Ground Wood), 8th & Willow, Mills, Realsboro, Vt.
 *Nixon, Martin & Wm. H. Paper Co. (Book, Colored Specialties & Felt Hangings, also Soda Fibre), 250 Drexel bldg

Philadelphia Paper Mfg. Co. (Box Boards), Manayunk
 Pleasant Mills Paper Co. (Rope Manila), 605 Chestnut, Mills, Pleasant Mills, N.J.
PITTSBURG—Dilworth Paper Co. (Glazed & Calendered Rope, Express, Hardware, Sugar Bag & Anti-Rust), Mills, New Castle, Pa.
 *Hartje Paper Co. (Manila News, Fibres, Carpet Lining, Building Papers, Mill Wrappers, Straw, Chip & Pulp Boards, Waterproof Fibres, Butchers, Waterproof Manila & Rosin Sized Sheathing; also Ground Wood & Sulphite Fibre), Mills, Steubenville, O.
 National Metal Molding Co. (Paper for Insulating Purposes), Mills, Boonton, N. J.
 Tarentum Paper Mills Co. (Rope & Express Wrapping), Mills, Tarentum, Pa.
PITTSBURG—Rommell, G. B. (Macaroni, Black Green Pattern, Starch, Tobacco & Colored Posters, Dark & Light Blue Papers for Lining Boards, Paper Made in Rolls)
READING—Reading Paper Mills (Book, Plate, Lithograph, Map, Manila & Rope; We Make a Specialty of Lithograph, Map, Plate & Coated Papers, also Rope Papers for Paper Purposes)
ROARING SPRING—*Bare, D. M. Co. (Super-Calendered & Machine Finished Book, Lithograph, White Flats & Mimeograph, also Soda Fibre)
SHEEDER—Sheeder, A. M. (Binders & Trunk Board)
SPRING FORGE—*Glatfelter, P. H. Co. (Machine Finished & Super-Calendered Book & Writing, Label, Bond & Blank Book Papers, Varnish Label Papers, Music, Writing & Blank Book Papers a Specialty, also Soda Fibre)
STILLWATER—*Stauffer Paper Mfg. Co. (Manila, Straw Wrapping & Bogus, also Ground Wood)
SWARTHMORE—Franklin Tissue Mills (Tissue Specialties)
TARENTUM—Tarentum Paper Mills Co. (Rope & Express Wrapping), Office: Pittsburgh, Pa.
TYRONE—*West Virginia Pulp & Paper Co. (Super-Calendered & Machine Finished Book, Lithograph & Varnish Label, White Writing, Blank Book Tablet, also Soda Fibre), Office: New York City
UPPER DARBY—Garrett, C. S. & Son Co. (Machine Finished Book, Card Middles & Fibre), Office: Phila., Pa.
WILLIAM PENN—Montgomery County—*Hamilton, W. C. & Sons (Book, Writing & Ledger, also Soda Fibre)
WILLIAMSBURG—*West Virginia Pulp & Paper Co. (Writing, Book & Specialties, also Soda Fibre), Office: New York City
WILLISTON INN—Cullen, Lewis Co., Office: Cheyney, Pa.
YORK—Lafean Paper Co. (Sheathing), Schmidt & Ault Paper Co. (Manila, Sheathing, Carpet Lining & Bogus)
 York Felt & Paper Co. (Saturated Felts)
YORK HAVEN—*York Haven Paper Co. (Colored Fibre, Light & Dark Express, Waterproof Building, Roofing & Insulating & "X Loid" Prepared Roofing Paper, also Ground Wood & Sulphite Fibre), Office: New York City

SOUTH CAROLINA.

HARTSVILLE—*Carolina Fibre Co. (Colored Wrapping & Water Finish Fibre, also Ground Wood & Sulphite Fibre)

TENNESSEE.

MEMPHIS—Tennessee Fibre Co. (Inc.) (Cotton Hull Fibre, Dry)

TEXAS.

OAK CLIFF—Fleming, John G. & Sons (Butchers' Manila & Straw, No. 2 Manila, Rag Wrapping, Roofing & Sheathing), P. O. Station A, Dallas, Tex.
ORANGE—*Yellow Pine Paper Mill Co. (Fibre, Hardware, Express, Colored & Bag, also Soda Fibre)

VERMONT.

BELLOWS FALLS—Blake & Higgins (Manila Flint, Wyman & Sons Co. (Manila)
 *International Paper Co. (News, Manila, Card Boards, Card Middles & Specialties, also Wood & Sulphite Fibre), Office: New York City

Moore, John T. & Son (Manila & Envelope)
 Moore & Thompson Paper Co. (Manila Wrapping, Railroad Manila, Coating, Envelope & Wax)
 Robertson, Jno. & Son (Tissue Manila)
 Robertson Paper Co. (Envelope Manila, Railroad & Telegraph Writing, Parchment Writing & Waxed Manillas & Tissues, All Grades, Weights & Colors in Waxed Papers, Biscuit, Bakers' & Packers' Papers a Specialty)
BENNINGTON—Fillmore & Slade (Manila Tissue)
BRATTLEBORO—Vinton, Wm. H. & Son (Blotting & Matrix)
EAST RYEGATE—*Ryegate Paper Co. (News, also Ground Wood)
FITZDALE—*Dalton Paper Mills (News, also Ground Wood), Office: Portland, Me.
MIDDLEBURY—*Green Mountain Pulp Co. (Ground Wood)
MILTON—*International Paper Co. (Ground Wood)
MORRISVILLE—National Fibre Board Co., Office: Boston, Mass.
NORTH BENNINGTON—Stark Paper Co. (Hanging)
PASSUMPSIC—Passumpsic Fibre Leather Co. (Leather (Heeling) Board)
PUTNEY—Cole, Wm. A. Paper Co. (Manila Tissue & "Eagle Mills" Brand of Tissue Toilet)
 Robertson, Wm. (White & Colored Tissues, Cotton Batting Paper, Napkin Paper, Fruit & Bottle Wrappers)
READSBORO—*National Metal Edge Box Co. (Jute Folding Box Boards, also Ground Wood), Office: Phila., Pa.
ST. JOHNSBURY CENTER—Pierce Bros. (Leather Board)
SALISBURY—*Kingsley Bros. (Ground Wood)
SHELDON SPRINGS—*Missisquoi Pulp Co. (Ground Wood)
WELLS RIVER—Adams Paper Co. (Manila Tissue, Anti-Tarnish Tissue & Toilet)
WEST DERBY—*Spaulding Bros. (Ground Wood)
WILDER—*International Paper Co. (High Grade News, also Ground Wood), Office: New York City
WILMINGTON—*Deerfield Lumber Co. (Ground Wood)

VIRGINIA.

BIG ISLAND—*Bedford Pulp & Paper Co. (Manila, News, Hanging, Drawing & Poster, also Ground Wood), Office: Richmond, Va.
BUENA VISTA—*Columbian Paper Co. (Card for Coating & Lithographing & Flat Writing, also Soda Fibre)
COLEMANS FALLS—Bedford Pulp & Paper Co. (Ground Wood), Office: Richmond, Va.
COVINGTON—*West Virginia Pulp & Paper Co. (Super-Calendered & Machine Finished Book, Lithograph & Varnish Label, also Bleached Sulphite Fibre), Office: New York City
MANCHESTER—Standard Paper Mfg. Co. (Blotting, Enameled Blotting & Card), Office: Richmond, Va.
RICHMOND—Albemarle Paper Mfg. Co. (Blotting, "World," "Hollywood" & "Reliance," Blottings, "Vienna Moire")
 Manchester Paper Twine Co. (Chip & Folding Box Board & Mill Wrappers)
 Richmond Paper Mfg. Co. (Blotting, Book & News, "Climax," "Star" & Enameled Blotting)
 Standard Paper Mfg. Co. (Blotting, Enameled Blotting & Card), Mills, Manchester, Va.
SNOWDEN—*Amherst Pulp Mfg. Co. (Ground Wood)
WINCHESTER—Old Dominion Paper Co. (News & Chip Board)

WASHINGTON.

CAMAS—*Crown-Columbia Pulp & Paper Co. (News, Manila, Bag, Wrapping, Sheathing & Hanging, also Ground Wood & Sulphite Fibre), Office: San Francisco, Cal.
EVERETT—*Everett Pulp & Paper Co. (Machine Finished & Super-Calendered Book, Varnish Label, Chemical, Railroad Writing, Bond & Cartridge, also Soda Fibre), Office: Lowell, Wash.

WEST VIRGINIA.

DAVIS—*West Virginia Pulp & Paper Co. (Bleached Sulphite Fibre), Office: New York City

HALLTOWN—Eyster & Son (Chip Boards, Milled, Lined & Plain)
HARPERS FERRY—*Harpers Ferry Paper Co. (Ground Wood)
 *Shenandoah Pulp Co. (Ground Wood)
PARSONS—*Parsons Pulp & Paper Co. (Tag Stock, Silk Wrappers & Specialties, Bleached & Unbleached Sulphites). Office: Phila., Pa.
PIEDMONT—*West Virginia Pulp & Paper Co. (Ground Wood), Office: New York City
RICHWOOD—Cherry River Paper Co. (Manila, White & Colored Fibres & Specialties, also Sulphite), Office: Phila., Pa.
WELLSBURG—George, S. Co. (Paper & Cement, Flour & Lime Bags)
 Harvey Paper Co. (Rope, Jute & Bogus)

WISCONSIN.

APPLETON—*Appleton Paper & Pulp Co. (Ground Wood)
 Fox River Paper Co. (Book, Bond, Linens, Lithograph, Typewriter, Superfine & Fine Writing & Engine-Sized Flats, No. 2 Ledger, Map, Drawing, Folded & Rule)
 *Interlake Pulp & Paper Co. ("Mitscherlich" Process Sulphite Fibre & Ground Wood), Office: New York City
 Kimberly-Clark Co. (Super-Calendered Book, Manila & Fibre, Envelope, Writing & Railroad Manila), Office: Neenah, Wis.
 *Patten Paper Co. (Book & News, also Ground Wood)
 Riverside Fibre & Paper Co. (Bonds & Ledgers, also Bleached & Unbleached Sulphite Fibre)
 Wisconsin Tissue Paper Co. (Light Weight Papers)
ASHLAND—*Menasha Paper Co. (Sulphite Fibre), Office: Menasha, Wis.
BELOIT—Beloit Box Board Co. (Roofing, Building, Box & Straw Board)
BROCKAW—*Wausau Paper Mills Co. (All Grades of Fibre & Manila, also Ground Wood & Sulphite Fibre)
BUCHANAN—See Little Chute, Wis.
COMBINED LOCKS—*Combined Lock Paper Co. (News, also Ground Wood & Sulphite Fibre)
CRIVITZ—*Crivitz Pulp & Paper Co. (Ground Wood)
DE PERE—American Writing Paper Co. (Writing, Loft-Dried & Machine-Dried Bonds, Linens & Ledgers), Office: Holyoke, Mass.
EAU CLAIRE—*Dells Paper & Pulp Co. (Manillas, Fibre, Novel & News, also Ground Wood & Sulphite Fibre)
GRAND RAPIDS—*Centralia Pulp & Water Power Co. (News, also Ground Wood)
 *Consolidated Water Power & Paper Co. (Lining, Novel, Special Print, Hanging, Book, Railroad Writing & Specialties, also Ground Wood)
 *Grand Rapids Pulp & Paper Co. (News & Hanging, also Ground Wood)
 *Pioneer Wood Pulp Co. (Building & Box Paper, Wood Pulp Board, also Ground Wood)
GREEN BAY—*Green Bay Paper & Fibre Co. (Sulphite Fibre)
 Hoberg, John Co. (White, Manila & Colored Tissue, Paper Napkins, Fruit Wrappers, Roll & Package Toilet Paper, Cotton Batting, Excelsior Tissue Pads & Printed Tissues & White Sulphite Fibre Papers)
 Northern Paper Mills (Toilet Tissue & Catalogue, Light Weight Book, Sanitary Automatic Toilet Service, "Northern Roll," "Northern Oval" & "Pedro" Toilet Papers)
KAUKAUNA—*Kaukauna Fibre Co. (Sulphite Fibre)
 *Lindauer Pulp Co. (Ground Wood)
 *Outagamie Paper Co. (No. 1 Rag Print, also Ground Wood)
 *Thilmany Pulp & Paper Co. (Tissue, Poster, Catalogue, Pattern, Cover & Wrapping, also Ground Wood)
 *Union Bag & Paper Co. (Manila & Bag Paper, also Ground Wood), Office: New York City
KIMBERLY—*Kimberly-Clark Co. (Book & Wrapping, also Sulphite Fibre), Office: Neenah, Wis.
LADYSMITH—*Menasha Paper Co. (News, Manila & Catalogues, also Ground Wood), Office: Menasha, Wis.
LITTLE CHUTE—*Little Chute Pulp Co. (Ground Wood)

MARINETTE—*Marinette & Menominee Paper Co. (News & Manila, also Ground Wood & Sulphite Fibre)
MENASHA—Gilbert Paper Co. (Bond, Ledger & High Grade Writing)
 *Island Paper Co. (White & Colored Fibre, also Sulphite Fibre)
 *Menasha Paper Co. (News, Manila & Catalogue)
 Plover Paper Co. (Loft-Dried Bond & Machine Finished Writing, Blue Print, Envelope & Ledgers)
 Strange, Jno. Paper Co. (Fibre, Manillas, Poster, Colored Specialties, Mill Wrappers, Rag & Express)
 Whiting, Geo. A. (Book, Colored Laid Writing, Telegraph & Parchment Manila & French Folios, Antique Laid & Egg Shell)
 *Wisconsin River Pulp & Paper Co. (News, Hanging & Ground Wood), Mills, Stevens Point, Wis.
MERRILL—*Grandfather's Falls Co. (News, Hanging, Tablet & Novel, also Ground Wood)
 *Lindauer Pulp & Mfg. Co. (Ground Wood)
MILWAUKEE—Johns, H. W.-Manville Co. (Asbestos & Building Felts)
NEENAH—Bergstrom Paper Co. (Super-Calendered & Machine Finished Book, Flat, Parchment, Railroad Manila & Cover)
 Kimberly-Clark Co. (Colored Fibres, Book, Railroad Manillas & Book)
 Neenah Paper Co. (Lithograph, Half-Tone & Loft & Machine-Dried Bonds & Flats)
 Nekoosa—*Nekoosa Paper Co. (News, Manila & Fibre, also Ground Wood & Sulphite Fibre)
NIAGARA—*Kimberly-Clark Co. (News & Manila, also Ground Wood & Sulphite Fibre), Office: Neenah, Wis.
OCONTO FALLS—*Falls Mfg. Co. (Manila & Fibre, also Ground Wood & Sulphite Fibre)
 *Union Mfg. Co. (Ground Wood)
PARK FALLS—*Flambeau Paper Co. (Hanging, No. 1 News & Novel, also Ground Wood)
PORT EDWARDS—*Edwards, John Mfg. Co. (News, Hanging & Novel, also Ground Wood)
 *Port Edwards Fibre Co. (Sulphite Fibre)
RHINELANDER—*Rhineland Paper Co. (News, also Ground Wood & Sulphite Fibre)
SHAWANO—*Wolf River Paper & Fibre Co. (Fibre & Manila Wrapping, also Ground Wood & Sulphite Fibre)
STEVENS POINT—Plover Paper Co. (Loft-Dried Bond & Machine Finished Writing, Blue Print, Envelope & Ledgers), Office: Menasha, Wis.
 *Wisconsin River Paper & Pulp Co. (News & Hanging, also Ground Wood), Office: Menasha, Wis.
STILES—*Anson-Eldred Co. (Ground Wood)
TOMAHAWK—*Tomahawk Pulp & Paper Co. (Roll News, also Ground Wood)

*Papers (Gummed)

KNOWLTON, M. D. CO., Rochester, N. Y. (See adv. index & branch offices, end of book)

*Papers (Stay)

KNOWLTON, M. D. CO. (Combination & Manila), Rochester, N. Y. (See adv. index & branch offices, end of book)

Papier Mache Mfrs.

DECORATORS' SUPPLY CO., Archer av & Leo, Chicago, Ill. (See adv. index & branch offices, end of book)
 De Planque, F. R., 1349 Ridge av, Phila., Pa.
 Dini, Geo. L., 497 Atlantic av, Brooklyn, N. Y.
 Emmel, Chas. & Rose Co. (Architectural), 383 Albany, Boston, Mass.
 Klee, Thomson Co., 329 E 40th New York
 Koppe & Steinichen (Architectural), 89 Houston, Atlanta, Ga.
 Liesum, Geo., & Co., 228 E. 24th, New York
 Lombard, A. P., 101 Bristol, Boston, Mass.
 Milner & Pride, 43 Bristol, Boston, Mass.
 Plastic Relief Mfg Co., 298 N Halsted, Chicago, Ill.
 Sinnott, Jas. M. & Co., 168 Atlantic av., Brooklyn, N. Y.
 Tognarelli & Voigt, 2310 Chestnut, Phila., Pa.
 Union Fiber Co., Winona, Minn.

Van Malderen, F., Ann & Jumonville, Pittsburgh, Pa.
 Verpellier, H. E. & Co., 288 Washington, New York, N. J.
 Walter, G. E. Co., 157 E 44th, New York

Parallels (Planer)

Walker, Oakley S. & Co., Worcester, Mass.

Parers (Fruit & Vegetable)

Bannister, A. F., & Co. (Fruit), Newark, N. J.
 Boutell Mfg. Co., Rochester, N. Y.
 Catawissa Specialty Mfg. Co. (Vegetable), Catawissa, Pa.
 Goodell Co. ("White Mountain," "98 Turntable," "New Lightning," "Bay State," Apple, Potato, etc.), Antrim, N. H.
 Hamblin & Russell Mfg. Co. (Apple, Potato, etc.), Worcester, Mass.
 Hudson Parer Co. (Apple), Leominster, Mass.
 Hunt Mfg. Co. (Apple), Greenfield, Mass.
 Judge Machine Co., Marine Bank bldg., Baltimore, Md.
 Kilbourne Mfg. Co., Troy, N. Y.
 Livingston Nail Co. (Apple, Potato, etc.), 104 Reade, New York
 Parker Wire Goods Co. (Apple, Potato, etc.), Worcester, Mass.
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Reading Hardware Co., Reading, Pa. ("78")
 Sayre, L. A., Co. (Apple & Peach Rotary Knife), Newark, N. J.
 Sinclair-Scott Co. (Fruit), Baltimore, Md.

Parers (Hoof)

Champion Tool Co. ("Giant"), Meadville, Pa.
 Leavitt Mfg. Co. ("Samson"), Urbana, Ill.

Paris White

(See also Whiting Manufacturers)

Bradford, Jas., Co., Wilmington, Del.
 Knappmann, Wm., & Co., 31 Nassau, New York
 Manufacturers' Whiting Co., Phila., Bourse, Phila., Pa.
 Nevins, Samuel, Co., 109 S. 2d, Phila., Pa.
 Stickney, Terrell & Co., 31 Milk, Boston, Mass.
 Taintor, H. F. Mfg. Co., 2 Rector, New York
 Whittaker, W. H., 245 Front, New York

Park Furniture

(See Settees, Various Kinds; also Fountains, Vases, Etc.; also Rustic Work; also Swings, Lawn)

Parting Compounds

(See Compounds, Parting)

Partitions (Flexible)

(See Partitions, Wood Rolling)

*Partitions (Steel)

AMERICAN METAL DOOR CO., Jamestown, N. Y. (See adv. index, end of book)
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y. (See adv. index & branch offices, end of book)

*Partitions (Steel Rolling)

KINNEAR MFG. CO. (Steel), Columbus, O. (See adv. index & branch offices, end of book)
ROLLING STEEL SHUTTER WORKS (John McLean), 162 W 27th, New York. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS 100 Lake, Chicago, Ill. (See adv. index, end of book)
WILSON, JAMES G. MFG. CO., Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, W. Va. (See adv. index, end of book)

*Partitions (Wire)

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

Partitions (Wood Rolling)

Dodge, H. R. & Co. (Mfrs. Agents), 108 La Salle, Chicago, Ill.
Flexible Door & Shutter Co. ("Flexifold"), 10 E Worcester, Worcester, Mass.
KINNEAR MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
WILSON, JAMES G. MFG. CO., Chief Office, 3 W 29th, New York, Mills & Factory, Norfolk, W. Va. (See adv. index, end of book)

Paste

(See also Soldering Paste, Salts & Sticks)

American Hominy Co. (Flour), Indianapolis, Ind.
Arabol Mfg. Co. ("Tinnol" Bottlers, Canners, etc.), 100 William, New York
Auburn Soap & Chemical Co. (Emery), Auburn, N. Y.
Bankers' Ink Co. (Library), Kansas City, Mo.
Bessire, H. Co., Indianapolis, Ind.
Boettiger & Co. (Plumbers), Erie, Pa.
Buckeye Paste Co. (Carriage Trimmers), Columbus, Ohio
Carter's Ink Co. (Flour), Boston, Mass.
Chapman & Smith Co. (Almond), Boulevard & S. Carpenter, Chicago, Ill.
Clark Paper & Mfg. Co., Rochester, N. Y.
Continental Mfg. Co. (Photographers), Phila., Pa.
Crystal Springs Paste Co. (Flour), Boston, Mass.
Cuyahoga Chemical Co. (Chicle), Cleveland, Ohio
Dean, W. G., & Son, (Licorice), 88 N. Moore, New York
Devoe, F. W. & C. T. Reynolds Co. (Photographers), New York
Diamond Paste Co. (All Kinds), Albany, N. Y.
Fort Pitt Oil & Paint Co. (Anti-Rust), Pittsburgh, Pa.
Heide, H. (Almond), 88 Van Dorn, New York
Higgins, Chas. M. & Co. (Office), B'klyn, N. Y.
Indiana Color & Varnish Co. (Carriage), Evansville, Ind.
Indianapolis Paste Co., Indianapolis, Ind.
Keller, Robt. Ink Co. (Office), 523 Fort, W., Detroit, Mich.
Keystone Paste Mfg. Co., 232 N Water, Phila., Pa.
Kleinbeck, C. H. (Caramel), Geneva, Ill.
Levison & Blythe Mfg. Co. (Flour), St. Louis, Mo.
Meyers & Hicks Co. (Almond), 104 S. Howard, Baltimore, Md.
Michigan Paste & Mfg. Co. ("Perfection"), Detroit, Mich.
Minnesota Weatherproof Paste Co. (Calking), Minneapolis, Minn.
National Insulating & Mfg. Co. (Wet Dry), Industrial bldg., Indianapolis, Ind.
National Jeloluse Co., 547 W. 43d, New York
Nice, Eugene, Co. (Hotel), Phila., Pa.
Park City Paste Co., Bridgeport, Conn.
Pomeroy Bros. Co., Newark, N. J.
Quill, Dennis, 96 W. Quincy, Chicago, Ill.
Sadler, John M. (Non-Tinning Dry), 49 S. May, Chicago, Ill.
Sanford Mfg. Co. (Library), Congress & Peoria, Chicago, Ill.
San Jose Paste Co., San Jose, Cal.
Scott's Hoof Paste Co. (Hoof), Rochester, N. Y.
Silberstein, A. L. (Razor), 459 Broadway, New York
Stafford, S. S. (Photographers), 603 Washington, New York
Starbuck, R. N., & Son (Plumbers), Hartford, Conn.
Swearingen, J. C. Ink Co. (Library), 222 Wick, Pittsburg, Pa.
Tacks Mfg. Co. (Bottlers, etc.), Utica, N. Y.
Weis Mfg. Co. (Library), Monroe, Mich.
Wood & Selick (Almond), 36 Hudson, New York

Paste (Canners', Etc.)

Arabol Mfg. Co. (Paste Powder & Paste Tinnol), 100 William, New York
Electric Cleanser Co., Canton, O.

Paste (Plumbers')

Starbuck, R. N. & Son, Hartford, Conn.

Pasteurizers (Milk, Etc.)

Burrell, D. H. & Co., Little Falls, N. Y.
Reid, A. H., Creamery & Dairy Supply Co. ("Reid"), 69th & Haverford, Phila., Pa.
Stoddard Mfg. Co. ("Farrington," "Duplex"), Rutland, Vt.

Pattern Making Outfits

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Oliver Machinery Co., Detroit, Mich.

Patterns & Models

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. index & branch offices, end of book)
Acme Pattern Works, Buffalo, N. Y.
Adams, Alex., Akron, Ohio.
Allen, Geo. R. (Metal or Wooden, for Machine & Casting Work), 500 N. 13th, Phila., Pa.
Allison & Lewis Pattern Works, Wyandot & Shawnee sts., Dayton, O.
Ames, B. C. & Co. (Models & Experimental Work), Waltham, Mass.
Arthur Co. (Models Experimental Work), 188 Front, New York
Attwood Brass Works (Metal), Grand Rapids, Mich.
Balkwill Pattern Co. (Large Patterns for Machinery a Specialty), Cleveland, O.
Baltimore Pattern & Model Works (Metal & Wood Models & Patterns), 218 Holliday, Baltimore, Md.
Banner Iron Works, St. Louis, Mo.
Bassett Pattern Works (Wood & Metal), 2d & Central Av., Cincinnati, O.
Brantner, Wm. Pattern Works (Patterns Only), 37 Scioto, Columbus, O.
Brantner, Wm. Pattern Works (Inc.) (Wood & Metal Patterns), Buffalo, N. Y.
Buffalo Gear & Pattern Works (Gear Patterns Cut by Machinery), 20 Elk, Buffalo, N. Y.
Buffalo Pattern Works (Inc.) (Wood & Metal Patterns), Buffalo, N. Y.
Canton Malleable Iron Co. (Brass), Canton, O.
Carr, David (Patterns), 25 Coutant, Cleveland, O.
Cincinnati Pattern Works (Wood & Metal), Front & Lawrence, Cincinnati, O.
Cleveland Castings Pattern Co. (Wood), Leonard & Winter, N. W., Cleveland, O.
CLEVELAND PUNCH & SHEAR WORKS Co., Cleveland, O. (See adv. index, end of book)
Cole Mfg. Co., Lakeport, N. H. (of book)
Colson, F. A. (Wood & Metal), Buffalo, N. Y.
Columbia Machine Works & Malleable Iron Co. (Metal), 269 Chestnut, Brooklyn, N. Y.
Comstock, J. F., & Co., Wilkesbarre, Pa.
Dayton Pattern Works, Dayton, O.
Eastwood Wire Mfg. Co., Belleville, N. J.
Enterprise Mfg. Co., Newburgh, N. Y.
Eynon-Evans Mfg. Co. (Patterns Only), 1519 Clearfield, Phila., Pa., & 107 Liberty, New York
Flint, Lomax Electric & Mfg. Co., Denver, Colo.
Fogg, A. A. & H. G. (Metal Patterns), Meriden, Conn.
Frankham, Wm. (Metal), Canton, O.
Freeman Pattern Works, Toledo, O.
Gaisler, O., Jr., Pattern Co., 1623 N. 7th, St. Louis, Mo.
Gardam, Wm. & Son (Inc.), 221 Fulton, New York
Gem City Pattern Works (Wood & Metal), 10-12 S. Canal st., Dayton, O.
Gorning & Luley, St. Louis, Mo.
Grant Mfg. & Machine Co. (Metal, Experimental, etc.), Bridgeport, Conn.
Hardoin, Nicholas (Brass Patterns), 132 E. Larned, Detroit, Mich.
Hartmann, Malcolm, Co., 13 N. Jefferson, Chicago, Ill.
Holstein, Chas. W., 515 W. 1st av, Columbus, O.
Howard Iron Works, Buffalo, N. Y.
Huettner Machine & Tool Co., Indianapolis, Ind.
Hurd & Haggin (Experimental Work & Model Making: Shop Drawings & Specifications furnished for Machines, etc.), 316 Hudson, New York
Huse, W. D. & Sons, Laconia, N. H.
Industrial Pattern & Bronze Co. (Brass & Bronze Castings, Patterns, etc.), 988 E. 67th, N. E., Cleveland, O.
Kahl, Fred. Pattern Co. (Wood & Metal Patterns), 537 Atwater, Detroit, Mich.
Kidder, R. E. (All Sizes), Worcester, Mass.
Knight, W. B., Machinery Co. (Metal), 2025 Lucas av., St. Louis, Mo.
Lewis, Chas. H., Syracuse, N. Y.
Liebtford & Foster, Indianapolis, Ind.
Lipe, C. E. (Est.), Syracuse, N. Y.

Loeffelholz Co. (Brass), Milwaukee, Wis.
Lowell Pattern Co., Lowell, Mass.
Luzier, T. B. & Son, 479 N 5th, Phila., Pa.
McClure, John C. (Wood), 134 Orange, Newark, N. J.
McLaughlin, Jno. K., 215 N 2d, Phila., Pa.
McNamara-Koster Foundry Co. (Patterns & Models), Indianapolis, Ind.
Mahoning Pattern Co. (All Kinds of Patterns), Youngstown, O.
Mansfield Pattern Co., Mansfield, O.
Medart, Fred., 3535 DeKalb, St. Louis, Mo.
Mersfelder Pattern Co. (Metal), Pearl & Ludlow, Cincinnati, O.
Nacke, A. & Son (Metal), 236 S 9th, Philadelphia, Pa.
Neslage, Herman F., 1023 S. 11th., St. Louis, Mo.
NESTOR MFG. CO. (Inc.) 40 W. 13th, New York. (See adv. index & branch offices)
NIAGARA FALLS METAL STAMPING Works (In Metal), Niagara Falls, N. Y. (See adv. index, end of book)
Niemeyer, W. H., & Co., Bush & Severn, Baltimore, Md.
Noble, Henry A., 203 Dock, Philadelphia, Pa.
Norris Pattern Works (Patterns), Norristown, Pa.
Ohio Pattern Works (Wood & Metal), 2730 Spring Grove av., Cincinnati, O.
Parker, W. T. Mfg. Co. (Wood & Metal), Springfield, O.
Parsell & Weed (Models & Experimental Work), 129 W. 31st, New York
Pauly Bros., Springfield, O.
Penn Pattern Works (Patterns & Models), Chester, Pa.
Phoenix Iron Works, Portland, Ore.
Portland Iron Works, Portland, Ore.
Quincy Pattern Co. (Wood & Metal), Quincy, Ill.
Queen City Pattern Works (Wood & Metal), 315 E. 3d, Cincinnati, O.
Reliable Foundry & Machine Co. (Gasoline Engines a Specialty), Fort Madison, Ia.
Reliance Pattern Works, 3204 Smallman, Pittsburg, Pa.
Richmond Pattern & Structural Iron Works (Wood Patterns), Richmond, Va.
Roberts & Norton, Utica, N. Y.
Rudolph, Wm. F. (Models & Experimental Work), 649 N Broad, Phila., Pa.
Sawin, Edward H., Gardner, Mass.
Shafer, O. J. (Metal), 131 W. 2d, Cincinnati, Ohio
Shepard, Amos L. (Models & Metal & Wood Patterns), Plantsville, Conn.
Slack, Ben F. Brass Mfg. Co. (Metal & Wood), Denver, Colo.
Standard Pattern Works (Gear Patterns a Specialty), Cleveland, O.
Stover Mfg. Co. (Metal Patterns), Freeport, Ill.
Taylor, C. P., Old Colony Bldg., Chicago, Ill.
Taylor & Fenn Co. (Models), 54 Arch, Hartford, Conn.
Tenney, Chas. L. (Patterns & Models), Fitchburg, Mass.
Tittle, R. D., Springfield, O.
Townsend Furnace & Machine Shop Co., Albany, N. Y.
Trumbull Mfg. Co. (Patterns), Warren, O.
Turner Brass Works (Brass, etc.), Sycamore, Ill.
Twentieth Century Brass & Iron Works (Metal), Minneapolis, Minn.
Universal Pattern Works (Wood), 1938 W 8th, Cincinnati, O.
Walker Bros. Co., Syracuse, N. Y.
Walker & Kyle (Patterns), Wilmington, Del.
Washburn, Lettie R. (Patterns & Models), New Bedford, Mass.
Weller Pattern Co. (Wood & Metal), Quincy, Ill.
West Side Foundry Co. (Wood & Metal Patterns), Watervliet, Troy, N. Y.
Wichita Mfg. Co. (Wood & Metal), Wichita, Kan.
Willamette Iron & Steel Wks., Portland, Ore.
York Pattern Works, York, Pa.
Youngstown Foundry & Machine Co., Youngstown, O.

Paulins

(See Tents for Railroad Contractors)

*Paulins & Covers (Waterproof)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Paving Blocks (Asphalt)

Barrett Mfg. Co., Land Title bldg., Phila., Pa.
Block & Tile Paving Co., Norristown, Pa.

Bradbury, Frank & Son, West Franklin, Me.
 Gilson Asphaltum Co., Land Title Bldg., Philadelphia, Pa.
 Hastings Pavement Co., Hastings Upon Hudson, N. Y., & 25 Broad, New York
 Impervious Product Co., 213 St. Paul, Baltimore, Md.
 New Castle Asphalt Block Co., New Castle, Pa.
 Taylor, Ronald, 520 E 20th, New York
 Washington Asphalt Block & Tile Co., S Capital & R, S E, Washington, D. C.

Paving Blocks (Cedar)

(See Paving Blocks, Wood)

Paving Blocks (Granite)

(See also Granite Producers, Workers & Dealers)

Anderson, Ola, Concord, N. H.
 Bedwell Granite Co., Rockland, Me.
 Booth Bros. & Hurricane Isle Granite Co., 207 B'way, New York
 Booth & Flinn (Ltd.), 1942 Forbes av, Pittsburgh, Pa.
 Bradbury, Frank & Son, West Franklin, Me.
BROWN, HERBERT L. CO., 26th & 5th av, New York. (See adv. index & branch offices, end of book)
 Fletcher, H. E. & Co. (Street, Curbing, etc.), West Chelmsford, Mass.
 Flynt, W. N. Granite Co., Monson, Mass.
GUILFORD & WALTERSVILLE Granite Co., 3 E. Lexington, Baltimore, Md. (See adv. index & branch offices, end of book)
 Hallowell Granite Works, Hallowell, Me.
 Laby, Thos., Haverhill, Mass.
LEOPOLD, J. & CO., 18 B'way, New York. (See adv. index, end of book)
 Milwaukee Monument Co., Milwaukee, Wis.
 Montello Granite Co., 59 Clark, Chicago, Ill.
 Mount Waldo Granite Works, Frankfort, Me.
NEW ENGLAND GRANITE WORKS, Westerly, R. I. & Concord, N. H. (See adv. index, end of book)
PETERSBURG GRANITE CO., 3 E. Lexington, Baltimore, Md. (See adv. index & branch offices, end of book)
 Pierce, John Co., West Street bldg., New York
PICTON ISLAND RED GRANITE CO., 320 5th av, New York. Quarries, Picton Island, St. Lawrence River, N. Y. (See adv. index, end of book)
 Pigeon Hill Granite Co., Pigeon Cove, Mass., & West Lebanon, N. H.
 Prout Bros., Quincy, Mass.
ROCKPORT GRANITE CO., Rockport, Mass. (See adv. index & branch offices, end of book)
SCHILLING, FRANK H., 614 Hale bldg, Phila., Pa. (See adv. index, end of book)
 Schneider Granite Co., Fullerton bldg, St. Louis, Mo. Quarries, Graniteville, Mo.
 Skrainka Construction Co., 319 N 4th, St. Louis, Mo.
 Southern Granite Co., Wiggins blks., Cincinnati, O., & Lithonia, Ga.
 Standard Granite Co., Mount Desert, Me.
 Swenson, Jno., Concord, N. H.
 Twen Cen Granite Co., Little Rock, Ark.
 Webb Granite & Construction Co., Worcester, Mass.
 White Granite Co., Long Island City, N. Y. Quarries, Blue Hill, Me.
 Winsboro Granite Co., Charleston & Rion, S. C.
 Wisconsin Granite Co., Chamber of Commerce bldg., Chicago, Ill.

Paving Blocks (Stone)

McKlernan & Bergin (Trap), Paterson, N. J.

Paving Blocks (Vitrified)

(See Brick Mfrs.—Vitrified Paving—Indicated by a star (*) in Front of Name)

Paving Blocks (Wood)

American Creosoting Co., 114 Liberty, New York. Works, Newark, N. J.
 Conway, R. F. Co. (Cedar), Chamber of Commerce bldg, Chicago, Ill.
 Jones, W. R. (Cedar), Muskegon, Mich.
 Kettle River Quarries Co., Minneapolis, Minn.
LEOPOLD, J. & CO., 18 B'way, New York. (See adv. index, end of book)
 Naugle Pole & Tie Co. (Cedar), 226 La Salle, Chicago, Ill.
 Peirce, W. E. & Co., Milford, N. H.

Republic Creosoting Co. ("Kreodone," Creosoted), Indianapolis, Ind.
 Sterling, W. C. & Son (Cedar), Monroe, Mich.
 United States Wood Preserving Co. ("Creo-Resinate" Process), 29 B'way, New York.
 Works: Perth Amboy, N. J.

Paving Contractors

(See Contractors, General; also Contractors, Asphalt Paving)

Paving Materials

(See Paving Blocks, Various Kinds; also Pitch, Paving & Roofing)

Paving & Roofing Pitch

(See Pitch, Paving & Roofing; also Coal Tar Products)

Pea Fillers

(See Can Filling Machines)

Pea-Hullers

(See Hullers, Pea & Bean)

Peanut & Coffee Roasters

(See Coffee, Peanut & Cocoa Bean Roasting Machines & Roasters, Coffee & Peanut)

Peavies

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Champion Tool & Handle Co. (Solid Socket), Evart, Mich.
 Evart Tool Co. (Ltd.), Evart, Mich.
 Gerlach, Peter, Co., Columbus road & Winchester, Cleveland, O.
 Oshkosh Logging Tool Co. (Socket, Pine, etc.), Oshkosh, Wis.
 Prouty, C. & Co. (Also Peavie Handles), Eldred, Pa.
 Warren Axe & Tool Co., Warren, Pa.

Pedestals (Radiator)

Atlas Radiator Pedestal Co., Norwich, Conn.
 Jennison Plumbing Co. (Adjustable), Fitchburg, Mass.

Pedestals (Sun Dial)

Hartmann-Sanders Co., 810 Elston av., Chicago, Ill., 1125 B'way, New York

Pencil Timber

Houston & Liggett (Cedar), Lewisburg, Tenn.

*Pencils (Chalk, Propelling & Re-pelling)

DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
HARDTMUTH, L. & C., 34 E. 23d, New York. (See adv. index, end of book)

*Pencils (Copying Ink)

HARDTMUTH, L. & C. ("Kooh-i-Noor," "Mephisto"), 34 E 23d, New York. (See adv. index, end of book)

*Pencils (Drawing)

DIXON, JOS. CRUCIBLE CO. (For Architects, Draughtsmen, etc.), Jersey City, N. J. (See adv. index & branch offices, end of book)

HARDTMUTH, L. & C. ("Kooh-i-Noor"), 34 E 23d, New York. (See adv. index, end of book)

SOLTMANN, E. G.

(Graphite, also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Pencils (French Chalk)

Nevlins, Saml. Co., 109 S 2d, Phila., Pa.

*Pencils (Graphite)

DIXON, JOS. CRUCIBLE CO. ("Dixon's" Office & Drawing Pencils), Jersey City, N. J. (See adv. index & branch offices, end of book)

Pencils (Lead)

American Lead Pencil Co., 43 W 4th, New York
 Blanchard Bros. (Inc.), Davenport, Ia.
DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)
 Eagle Pencil Co., 377 Broadway, New York
 Faber, A. W., Newark, N. J.
 Faber, Eberhard, 299 B'way, New York
HARDTMUTH, L. & C. ("Kooh-i-Noor"), 34 E 23d, New York. (See adv. index, end of book)

*Pencils (Lumber)

DIXON, JOS. CRUCIBLE CO. (Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)

Pencils (Slate)

DOGGETT, STANLEY (Artificial), 101 Beekman, New York. (See adv. index, end of book)
 Ilfelder, B., & Co. (Artificial), 97 Bleecker, New York
 Steward, D. M. Mfg. Co. ("Compo."), Chattanooga, Tenn.

Pencils (Talc & Soapstone)

Cohutta Talc Co. (Soapstone; also Crayon), Dalton, Ga.
DIXON, JOS. CRUCIBLE CO., Monmouth & Wayne, Jersey City, N. J. (See adv. index & branch offices, end of book)
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Piedmont Soapstone Co., 55 Congress, Boston, Mass. Works, Asbestine, Va.
 Steward, D. M. Mfg. Co., Chattanooga, Tenn.

*Pencils (Water Color)

AMERICAN CRAYON CO., Sandusky, O., & Waltham, Mass. (See adv. index, end of book)

Pendants (Wiring)

Cutter, Geo. Co., South Bend, Ind.
 Fletcher Mfg. Co. ("Etheridge"), Dayton, O.

Pens (Steel)

Estabrook Steel Pen Mfg. Co., Camden, N. J.
 Miller Bros. Cutlery Co., Meriden, Conn.
 Spencerian Pen Co., 349 B'way, New York

Penstocks

Atlantic Works, 70 Border, S. B., Boston, Mass.
 Canton Boiler & Engineering Co., Canton, O. (See adv. index, end of book)
 Casey-Hedges Co., Chattanooga, Tenn.
 Clogston, Luman, Fair Haven, Vt.
CONNERY & CO., 9th & Master, Phila., Pa. (See adv. index, end of book)
 Dalrymple, Geo. (Wrought Steel), Fair Haven, Vt.
 Dillon, D. M., Fitchburg, Mass.
 Franklin Boiler Works Co., Green Island, N. Y.
 Gem City Boiler Co., Dayton, O. Troy, N. Y.
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
 Holmes, J. H. & Co., Rutland, Vt.
 Holthoff Machinery Co., Cudahy, Wis.
 Humphrey Machine Co., Keene, N. H.
 Hunt, Rodney Machine Co., Orange, Mass.
KEELER, E. CO., Williamsport, Pa. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Leffel, James & Co. (Inc.), Springfield, O.
 Lowell Steam Boiler Works (Richard Dobbins, Prop.), Lowell, Mass.
MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
PETROLEUM IRON WORKS CO., Sharon, Pa., & Farmers' Bank bldg., Pittsburg, Pa. (See adv. index, end of book)

Philadelphia Iron Works, 418 N 18th, Phila., Pa.

PLATT IRON WORKS CO., Dayton, O.
(See adv. index & branch offices, end of book)
Pollock, Wm. B. Co., Youngstown, O.

Poole Engineering & Machine Co. (For Water Wheels), Woodberry Station, Baltimore, Md.
Portland Co., Portland, Me.

REEVES BROS. CO., Alliance, O.
(See adv. index & branch offices, end of book)

Riter-Conley Mfg. Co., 55 Water, Pittsburg, Pa., 111 B'way, New York

Robb-Mumford Boiler Co. (Inc.), South Framingham, Mass.

Seannell Boiler Works, Lowell, Mass.

SHAW, BENJ. F., CO., Wilmington, Del.
(See adv. index, end of book)

Stafford, Wright, Lawrence, Mass.

STEARNS, A. T. LUMBER CO. (Wood),
Neponset, Boston, Mass. (See adv. index, end of book)

Stebbings, W. L., Monadnock blk., Chicago, Ill.

Struthers-Wells Co., Warren, Pa.

Trump Mfg. Co., Springfield, O.

U. S. Wind Engine & Pump Co., Batavia, Ill.

Walsh Boiler & Iron Works, Springfield, Mass.

Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.

Percolators (Coffee)

GENERAL ELECTRIC CO. (Electric),
Schenectady, N. Y., & 30 Church, New York (See adv. index & branch offices, end of book)

Bowman, Geo. H. Co. ("Bowman") Sanitary Aluminum, Cleveland, O.

Buffalo Mfg. Co., Buffalo, N. Y.

Landers, Frary & Clark, New Britain, Conn.

Manning, Bowman & Co. ("Meteor") Circulating, Meriden, Conn.

New England Enameling Co. ("Ideal"), Middletown, Conn.

Pelouze Scale & Mfg. Co., 118 W. Jackson boui., Chicago, Ill.

Southern Electric Co. (Electric), 423 N. Calvert, Baltimore, Md.

Sternau, S., & Co., 237 Broadway, New York

Perforated Metals

Atchison Perforating Co., 303 Dearborn, Chicago, Ill.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Perforated Metal Co., Belleville, N. J.

Beckley Perforating Co., Garwood, N. J.

California Perforating Screen Co., Howard & Fremont, San Francisco, Cal.

Central Stamping Co., 174 Fulton, New York

Clinton Wire Cloth Co. (For All Purposes), Clinton, Mass.

Cross Engineering Co. (Stone Screens a Specialty), Carbondale, Pa.

Eastwood Wire Mfg. Co., Belleville, N. J.

Erdle Perforating Co., Rochester, N. Y.

Harrington & King Perforating Co., 224 N. Union, Chicago, Ill.

Hendrick Mfg. Co., Carbondale, Pa.

HUNGERFORD, U. T. BRASS & COPPER
Co. (Brass, Copper, Iron or Steel), 497 Pearl, New York

Johnston & Chapman Co., 1345 Carroll av., Chicago, Ill.

Littleford Bros., 453 E Pearl, Cincinnati, O.

Manhattan Perforated Metal Co., 237 Centre, New York

MERCHANT & EVANS CO. (Inc.)
(Brass, Copper, Iron or Steel), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Mundt, Charles & Sons, 441 Pearl, New York

Novelty Mfg. Co. (Also Embossed), Waterbury, Conn.

PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)

San Francisco Pioneer Screen Works (John W. Quick, Prop.), 221 1st, San Francisco, Cal.

Selbel-Suessdorf Copper & Iron Mfg. Co., St. Louis, Mo.

Towne & Co. (C. H. Kimball, Prop.) (For Centrifugal Linings & Copper Bottoms for Wood Scouring Purposes), Worcester, Mass.

Throop Perforating Co., Buffalo, N. Y.

Peroxide of Manganese

Bond, Vivian & Co., 68 Beaver, New York

Petroleum & Its Products

American Oil Works (Ltd.), Titusville, Pa.

Atlantic Refining Co., Bourse, Phila., Pa.

Bulls Head Oil Works, San Francisco, Cal.

Climax Refining Co., Williamson bldg., Cleveland, O.

Columbia Oil Co., 13 William, New York

Conewango Refining Co. (Crude Oil Only), Warren, Pa.

Continental Refining Co. (Ltd.), Oil City, Pa.

Cornplanter Refining Co., Warren, Pa.

Crew-Levick Co., Land Title bldg., Phila., Pa.

Crystal Oil Works, Oil City, Pa.

Emery Mfg. Co., Bradford, Pa.

Emlenton Refining Co., Emlenton, Pa.

Empire Oil Works, Oil City, Pa.

Energine Refining Co. ("Energine" Fuel for Automobiles, Gasoline Engines, Naphtha Launches, etc.), Cleveland, O.

Germania Refining Co., Oil City, Pa.

Gulf Pipe Line Co., Frick bldg. annex, Pittsburg, Pa.

Independent Refining Co. (Ltd.), Oil City, Pa.

INDIAN REFINING CO. (Crude Petroleum), Cincinnati, O. (See adv. index, end of book)

Island Petroleum Co., Baltimore, Md.

Miller, A. D. Sons Co., Allegheny, Pa.

National Refining Co., Rose bldg., Cleveland, Ohio

Paragon Refining Co., Toledo, O.

Penn Refining Co., Oil City, Pa.

Pittsburg Oil Refining Co., Pittsburg, Pa.

Pure Oil Co., 5th & Chestnut, Phila., Pa.

Seneca Oil Works, Warren, Pa.

Standard Oil Co., 555 W 25th New York

Sun Co., Real Estate Trust bldg., Phila., Pa.

Texas Co., Houston, Tex., & 17 Battery pl., New York

Tide Water Oil Co., 11 B'way, New York

Titusville Oil Works, Titusville, Pa.

Union Petroleum Co., 135 S. 2d, Phila., Pa.

Warren Refining Co., Warren, Pa.

Pew End Mfrs.

McMillen, R. Co., Oshkosh, Wis.

Moore Mfg. Co., Springfield, Mo.

Peirce, W. E. & Co., Milford, N. H.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Pharmaceutical Apparatus

(See Pharmaceutical Machinery: also Chemical Machinery)

Phonograph Horns

Nova Phono Horn Co., 22 Manhattan, New York

Shelp & Vandegrift (Inc.), ("Music Master" Wood), Phila., Pa.

Standard Metal Mfg. Co., 10 Warren, New York

Phonographs

(See Talking Machines)

Phosphate Rock

Palmetto Phosphate Co., Keyser bldg., Baltimore, Md.

Powers & Williams (Untreated Ground for Agricultural Purposes), Streator, Ill.

Virginia-Carolina Chemical Co., Richmond, Va.

Phosphor Bronze

Crescent Phosphorized Metal Co. ("Crescent"), 2314 Wood, Phila., Pa.

Damascus Bronze Co., Allegheny, Pa.

Edna Smelting & Refining Co., 525 Reading rd., Cincinnati, O.

Great Western Smelting & Refining Co., 173 W. Kinzie, Chicago, Ill.

HUNGERFORD, U. T. BRASS & COPPER
Co. (Sheets, Rods, Wire, etc.), 497 Pearl, New York

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

New Era Mfg. Co. ("Phosphor Bronze"), Kalamazoo, Mich.

Phosphor Bronze Smelting Co., 2200 Washington av., Philadelphia, Pa.

Reeves, Paul S. & Son, 1415 Catharine, Philadelphia, Pa.

Riverside Metal Co., Riverside, N. J.

Shimer, H. M. & Co., 19th & Washington av., Phila., Pa.

Phosphor Bronze Sheets

HUNGERFORD, U. T. BRASS & COP-
per Co., 497 Pearl, New York

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Phosphor Bronze Smelting Co., 2202 Wash'n av., Philadelphia, Pa.

Reeves, Paul S. & Son, 1415 Catharine, Phila., Pa.

Riverside Metal Co., Riverside, N. J.

Phosphor Copper

Crescent Phosphorized Metal Co. ("Crescent"), 2314 Wood, Phila., Pa.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Western Foundry Supply Co., 30 Church, New York

Phosphor Tin

Crescent Phosphorized Metal Co. ("Crescent"), 2314 Wood, Phila., Pa.

Empire Metal Co., Syracuse, N. Y.

Hoffeller Smelting & Refining Co., Buffalo, N. Y.

New Era Mfg. Co., Kalamazoo, Mich.

Syracuse Smelting Works, 464 10th av., New York

Waite, Ranlet & Co., Boston, Mass.

Phosphorizers

DIXON, JOS. CRUCIBLE CO., Jersey City, N. J. (See adv. index & branch offices, end of book)

McCuilough-Dalzell Crucible Co., Pittsburg, Pa.

New Era Mfg. Co., Kalamazoo, Mich.

Phosphoro (Metallic)

New Era Mfg. Co. (Phosphor Tin Improved), Kalamazoo, Mich.

Phosphorus

General Chemical Co. (For Phosphor Bronze, etc.), 25 Broad, New York

Phospho Chemical Co., Marion, Ala.

Photographers (Architectural)

Archibald, David G., 345 E 33d, New York

Chautauqua Photographia Co., Empire bldg., Pittsburg, Pa.

Chicago Architectural Photographing Co. (Arch'l & Engineering), Marquette bldg., Chicago, Ill.

Darling, C. M., 122 W 36th, New York

Farnham, H. A., 936 F., N. W., Washington, D. C.

Johnston, R. W., 435 Wood, Pittsburg, Pa.

Langill, C. O., 10 E 14th, New York

McCollin, Thos. H. & Co., 54 N. 9th, Phila., Pa.

Rockwood Photographer (Inc.), 1550 B'way, New York

Taylor, J. W., 324 Dearborn, Chicago, Ill.

Photographers' Automatic Contact Printing Frames

Vote-Berger Co., La Crosse, Wis.

Photometers

American Meter Co. (Jet, Slug, Letheby Stile "B." Closed & Portable), 561 W 47th, New York

Dwyer Machine Co., Lynn, Mass.

Electric Motor & Equipment Co. ("Deshler-McAllister"), Newark, N. J.

Foot-Pierson & Co., New York

Gurley, W. & L. E., Troy, N. Y.

Leeds & Northrup Co. (Lamp Testing, "Reich Sanstalt" Precision & Station), Phila., Pa.

QUEEN & CO. (Inc.), n. w. e 8th & Arch, Phila., Pa. (See adv. index, end of book)

Pick Mfrs.

(See also Picks, Various Kinds)

American Axe & Tool Co., Glassport, Pa. & 253 B'way, New York

Ames Plow Co., Quincy Hall, Boston, Mass.

Colclesser Bros., El Dorado, Pa.

Collins Co., Collinsville, Conn.; 212 Water, New York

Gerber, Louis & Sons, 70 Waiter av., Pittsburg, Pa.

Iron City Tool Works, Ltd., 32d & Smallman, Pittsburgh, Pa.
 Klein-Logan Co., Breed & S 13th, Pittsburg, Pa.
 Peck Edge Tool Co., Cohoes, N. Y.
 Plumb, Fayette R., c Tucker and Trenton av, Philadelphia, Pa.
 Pollard, Jos. G., 141 Raymond, Brooklyn, N.Y.
 Union Drop Forge Co., 66 E Ohio, Chicago, Ill.
 Warwood Tool Co., Wheeling, W. Va.

Pickaroons

Champion Tool & Handle Co., Evart, Mich.
 Warren Axe & Tool Co., Warren, Pa.

Pickers (Bean)

Bacon Mfg. Co., Pontiac, Mich.

Pickers (Coffee & Peanut)

Lambert Food & Machine Co., Marshall, Mich.

Pickers (Corn)

(See Pickers & Huskers, Corn)

Pickers (Fruit)

Hamblin & Russell Mfg. Co., Worcester, Mass.
 Henry, John T. Mfg. Co. (Grape Pickers), Hamden, Mass.
 Phila. Steel & Wire Co. ("Pennsylvania"), 525 Commerce, Phila., Pa.

Pickers & Huskers (Corn)

Independent Harvester Co., Plano, Ill.
 International Harvester Co. of America, Chicago, Ill.
 Osborne Plant, Auburn, N. Y.
 Taylor Husker & Shedder Co., Joliet, Ill.

Pickets (Red Cedar)

Lake Washington Mill Co., Seattle, Wash.

Picks (Asphalt Cutter)

Oliver Iron & Steel Co., Pittsburg, Pa.

Picks (Boiler)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Stortz, John & Son, 210 Vine, Phila., Pa.

Picks (Bung)

Bradley's, G. W. Sons (Inc.), Westport, Conn.

Picks (Clay)

Anderson, W. H., Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Beaver Falls Mfg. & Fuel Co., Beaver Falls, Pa.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburgh, Pa.
 Klein-Logan Co., Pittsburg, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
 Union Drop Forge Co., 69 Indiana, Chicago, Ill.
 Warwood Tool Co., Wheeling, W. Va.

Picks (Coal)

(See Picks, Mining)

Picks (Contractors')

American Axe & Tool Co., Glassport, Pa.
 Anderson, W. H., Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Atha Tool Co., Newark, N. J.
 Iron City Tool Works (Ltd.), 32d & Smallman, Pittsburgh, Pa.
 Isle, O. W. & Son, Boston, Mass.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 Mack & Co. (Solid Edge, "Washoe" Pattern), Rochester, N. Y.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
 Union Drop Forge Co., 69 Indiana, Chicago, Ill.
 Warwood Tool Co., Wheeling, W. Va.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES. ERNST WIENER COMPANY.

475 Fulton blug, New York. (See adv. index & branch offices, end of book)

*Picks (Cupola)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Picks (Drifting)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Beall Bros (Inc.) (Solid Steel), Alton, Ill.
 FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
 Hardsogg Mfg. Co., Ottumwa, Ia.
 Hardsogg, Martin Co., Allegheny, Pa.
 Iron City Tool Works, 32d & Smallman, Pittsburgh, Pa.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
 Union Drop Forge Co., 69 Indiana, Chicago, Ill.
 Warwood Tool Co., Wheeling, W. Va.

Picks (Fireman's Truck)

Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.

Picks (Ice)

Alaska Freezer Co. (Hand), Winchendon, Miss.
 Arcade Mfg. Co. (Also Sliding Pick), Freeport, Ill.
 Browne, W. S. Mfg. Co., Klingston, N. Y.
 Browne & Dowd Mfg. Co., Meriden, Conn.
 Cassidy-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
 Deuse, J. S., Chester, Conn.
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 Ducharmes & Co., Shelburne Falls, Mass.
 Erie Specialty Co. (Walker's), Erie, Pa.
 Franklin Specialty Co. ("Dandy" Nickel Plated, Hickory Handle), Reading, Pa.
 Gilchrist Co., Newark, N. J.
 Griswold Mfg. Co. ("Classic"), Erie, Pa.
 Halsey, C. W. ("Halsey" Ice Pick Clippers), Evansville, Ind.
 Highton, Wm. & Sons, Nashua, N. H.
 Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
 Landers, Frary & Clark (Steel Blade), New Britain, Conn.
 Mayhew, H. H. Co., Shelbourne Falls, Mass.
 Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.
 Phoenix Hardware Co., Homer, N. Y.
 Rocky Hill Hardware Co. (Awls, Chisels & Picks), Rocky Mill, Conn.
 Schutte, E. G., & Co. ("Schutte"), 230 Stark, Cincinnati, O.
 Smith, J. Barton Co., Norris & Hope, Phila., Pa.
 Snell Mfg. Co., Fickdale, Mass.
 Stortz, John & Son (Also Ice Shavers), 210 Vine, Phila., Pa.
 Stover Mfg. Co., Freeport, Ill.
 Swan, Jas. Co., Seymour, Conn.
 Troy Nickel Works (John E. Gattley, Prop.), ("Alaska" Nickel Plated Picks and Breakers), Albany, N. Y.
 Tuck Mfg. Co. (Ice Awls), Brockton, Mass.
 Wrightsville Hardware Co., Wrightsville, Pa.

Picks (Locomotive Coal)

Dayton Malleable Iron Co. (Malleable Iron, Points Ore Case Hardened), Dayton, O.
 Hubbard & Co., Pittsburg, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Warwood Tool Co., Wheeling, W. Va.

Picks (Mattock)

(See Mattocks)

Picks (Mill)

Anderson, W. H., Tool & Supply Co. (Coal), 14 Macomb, Detroit, Mich.
 Black, J. B. ("Wm. Beatty & Sons" Cast Steel), Chester, Pa.

Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Evansville Tool Works, Evansville, Ind.
 Falls Mfg. Co., San Francisco, Cal.
 HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
 Higgins, John C. & Son ("Higgins"), 169 W Kinsle, Chicago, Ill.
 Kern, Amandus, Fleetwood, Pa.
 Mack & Co., Rochester, N. Y.
 Mixer, J. W. Saw Tool Co. ("Mixer" Mill Stone), Plymouth, Mass.
 Mohr, E. H., Vera Cruz, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
 SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Warwood Tool Co., Wheeling, W. Va.

Picks (Mining)

American Axe & Tool Co., Glassport, Pa., & 253 B'way, New York
 Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
 Buckeye Tool Co., Leontola, O.
 Evansville Tool Works, Evansville, Ind.
 Fulton Tool Works ("Fulton" Coal), Canal, Fulton, O.
 Gills, Jno. D. Sons, Phillipsburg, Pa.
 Hardsogg, Martin Co., Allegheny, Pa.
 Hubbard & Co. (Coal, etc.), Pittsburg, Pa.
 Iron City Tool Works, 32d & Smallman, Pittsburgh, Pa.
 Jones & Laughlins Steel Co., Pittsburg, Pa.
 Klein-Logan Co., Breed & S 13th, Pittsburg, Pa.
 Oliver Iron & Steel Co. (Coal, etc.), Pittsburg, Pa.
 Pittsburg Steel Mfg. Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick," Coal, etc.), Cheswick, Pa.
 Plumb, Fayette R. (Inc.), Frankford, Philadelphia, Pa.
 Salem Tool Co. ("C. M. Day" Coal), Salem, Ohio
 Union Drop Forge Co. (Solid Steel Forged), 69 Indiana, Chicago, Ill.
 Verona Tool Works, Verona, Pa., & Pittsburg, Pa.
 Warwood Tool Co., Wheeling, W. Va.

Picks (Mining Machine)

Gerber, Louls & Sons, 70 Walter, Pittsburg, Pa.
 Harris, Wm. & Son (Puncher Picks), Allegheny, Pa.
 Pittsburg Steel Mfg. Co., Pittsburg, Pa.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Warwood Tool Co., Wheeling, W. Va.

Picks (Panama)

American Flexible Tool Co. (For all Purposes), Ithaca, N. Y.

Picks (Poll)

Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
 Evansville Tool Works, Evansville, Ind.
 Hubbard & Co., Pittsburg, Pa.
 Iron City Tool Works, 32d & Smallman, Pittsburgh, Pa.
 Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
 Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
 Warwood Tool Co., Wheeling, W. Va.

Picks (Puncher)

Harris, Wm. & Son, Pittsburg, Pa.
 Massillon Foundry & Machine Co. (For All Mining Machines for Coal), Massillon, O.

Picks (Railroad)

American Axe & Tool Co. (Adze, Eye, etc.), Glassport, Pa., & 253 B'way, New York
 Anderson, W. H., Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
 Evansville Tool Works, Evansville, Ind.
 Harvey, H. H., 606 Atlantic av, Boston
 Iron City Tool Works, 32d & Smallman, Pittsburgh, Pa.
 Isle, A. W. & Son, Boston, Mass.
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Klein-Logan Co., Breed & S 13th, Pittsburg, Pa.

KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index, end of book)

Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co., Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Union Drop Forge Co. (Forged Steel), 69 Indiana, Chicago, Ill.
Verona Tool Works, Verona, Pa., & Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.

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Picks (Stone)

Anderson, W. H. Tool & Supply Co. (Mill), 14 Macomb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Black, J. B., Chester, Pa.
Evansville Tool Works, Evansville, Ind.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
Isle, A. W. & Son, 51 Pitt, Boston, Mass.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
SPROUT, WALDRON & CO., Muncy, Pa.
(See adv. index, end of book)
Warwood Tool Co., Wheeling, W. Va.

Picks (Surface)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
Oliver Iron & Steel Co., Pittsburg, Pa.
Plumb, Fayette R. (Inc.) Frankford, Phila., Pa.
Warwood Tool Co., Wheeling, W. Va.

Picks (Tamping)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Beall Bros. (Inc.) (Solid Steel), Alton, Ill.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, 32d & Smallman, Pittsburg, Pa.
Klein-Logan Co., Breed & S 13th, Pittsburg, Pa.
Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.
Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
Plumb, Fayette R. (Inc.), Frankford, Phila., Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Union Drop Forge Co., 69 Indiana, Chicago, Ill.
Verona Tool Works, Verona, Pa., & Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.

Pick-Ups (Trolley Wire)

Electric Service Supplies Co. ("G-D"), 1025 Filbert, Phila., Pa.
Ohio Brass Co., Mansfield, O.

Piezometers

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Simplex Valve & Meter Co., 112 N Broad, Phila., Pa.

Pig Copper

(See also Ingots, Copper, Etc.)

American Smelting & Refining Co., 165 B'way, New York
Frankel, J., 81 Fulton, New York
Hendricks Bros., 49 Cliff, New York

Pig Forceps

Leavitt Mfg. Co. ("Dr. Leavitt," "Sampson"), Urbana, Ill.

*Pig Iron

WHEELER, CHARLES CHILD, 113
B'way, New York. (See adv. index, end of book)

*Pig iron Warrants & Certificates

WHEELER, CHARLES CHILD, 113
B'way, New York. (See adv. index, end of book)

Pig Lead

(See Lead Pipe, Sheet & Pig Lead)

Pig Zinc

American Smelting & Refining Co., 165 B'way, New York
Sandoval Zinc Co., 122 N Peoria, Chicago, Ill.
Works: Sandoval, Ill.

Pigeons (Clay)

Hoyt Metal Co., St. Louis, Mo., & Perth Amboy, N. J.

Pigments

DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
Excelsior Mfg. Co., Newport, Del.
Hanna & Andrus Mfg. Co. (Umbers), Chicago, Ill.
International Acheson Graphite Co. (Graphite), Niagara Falls, N. Y.
Smith, J. Lee, & Co. (Turkey Umber), 59 Frankfort, New York

Pile Driver Fittings

NATIONAL HOISTING ENGINE CO.,
Harrison, N. J. (See adv. index & branch offices, end of book)
Vulcan Iron Works, Fulton & Irving av, Chicago, Ill.

Pile Drivers (Pneumatic)

(See Pneumatic Pile Drivers)

Pile Drivers (Railroad Car)

Beatty, M. & Sons, Wellard, Ontario, Can.
Bucyrus Co. (Locomotive), South Milwaukee, Wis.
Industrial Works, Bay City, Mich.
Toledo Foundry & Machine Co., Toledo, O.
Vulcan Iron Works, 59 Milwaukee av., Chicago, Ill.

*Pile Drivers (Sheet)

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch offices, end of book)

Pile Drivers (Steam)

(See Pile Driving Machinery)

Pile Driving Contractors

(See also Dock Builders)

Armstrong & Latta, Land Title bldg, Phila., Pa.
Beaver Dam Lumber Co., Cumberland, Wis.
Blakeman, M. A., Bridgeport, Conn.
Boston Oak Pile Co., 27 Kilby, Boston Mass.
Bradley, W. B. Construction Co., Richmond, Va.
Burgeson, C. F., 811 S G, Tacoma, Wash.
Burk, Walter F. & Co., 95 Milk, Boston, Mass.
Byrne, Thos. S., 5502 S. Halsted, Chicago, Ill.
Cavanagh Bros., 471 Dorchester av, S. Boston, Mass.
Cavanagh, Geo. H., 166 Devonshire, Boston, Mass.
Chapman, A. F. & Co., Prudential bldg, Buffalo, N. Y.
Cleary, James, 244 14th, Jersey City, N. J.
Costello & Neagle, Elmira, N. Y.
Cotter, Wm. T., Jacksonville, Fla.
Cram, D. Henry, 23 Powers st., S. Boston, Mass.
Crimmins, Thos., Contracting Co., 444 E. 69th, New York
Cronin, Barth. S., 573 Clinton, Brooklyn, N. Y.
Cross, E. Son Co. (Inc.), Portsmouth, Va.

Derry, Chas. T. & Co., 68 Devonshire, Boston, Mass.

Dubois, Henry Sons Co., 17 State, New York
Dupuis, A. J. Co., 15 Atwater, Detroit, Mich.
Fath, C. H. & Son Construction Co., Electric bldg, Cleveland, O.
Fitzsimons & Connell Co., Tacoma bldg, Chicago, Ill.
Fruin-Bambrick Construction Co., Chemical bldg, St. Louis, Mo.
Glandorf, C. H., Stb & Plum, Cincinnati, O.
Glenn, Benj., 2300 E Balto., Baltimore, Md.
Great Lakes Dredge & Dock Co., 138 Washington, Chicago, Ill.

Griffin, M. J., Detroit, Mich.
Harbrecht, Louis, 368 Connecticut, Buffalo, N. Y.

Hathaway, J. E. & Co., Canal n 1st av, Milwaukee, Wis.
Hayes, Geo., Co., 166 Devonshire, Boston, Mass.

Henhoeffler & Vaughan, Camden, N. J., & Wilmington, Del.
Humphreys, Geo., 135 W 9th, Brooklyn, N. Y.

Jenks, Edw. B. Co., 143 Liberty, New York
Kansas City Bridge Co., Kansas City, Mo.
Lake Superior Piling Co., Duluth, Minn.

Lawler Bros., 16 City sq, Chsn
Leh, Jeremiah H., 50 Exchange, Buffalo, N. Y.
Love, Robt., Muskegon, Mich.
Mayo Contracting Co., 43 Tremont, Boston, Mass.

McCully Construction Co., Houser bldg, St. Louis, Mo.
McDonald, C. I. & Co., House bldg, Pittsburg, Pa.

McGiffin, James & Co., Fernandina, Fla.
McLean Contracting Co., Md. Trust bldg., Baltimore, Md.

McNally, Thos. Co., Bates & 2d av., Pittsburg, Pa.

Miller, Wm. L., 166 Devonshire, Boston, Mass.
Monks, Jno. & Sons, 82 Beaver, New York

Moore-Mansfield Construction Co. (Inc.), Bd. of Trade bldg., Indianapolis, Ind.
Murray, W. D. & Co., Norfolk, Va.

North American Dredging Co., Merchants' Ex. bldg., San Francisco, Cal.
Norton, F. A., 270 Lexington, E. B., Boston, Mass.

Norton, Wm. A., 285 Dorchester av, Boston, Mass.
Parks, Geo. & Sons, 217 15th, Buffalo, N. Y.

Rendle, W. S. Co., 135 Prescott, E. B., Boston, Mass.
Ross, P. Sanford, 227 Wash'n, Jersey City, N. J., & Savannah, Ga.

Ruggles, Thos. E., 95 Milk, Boston, Mass.
Sanford & Brooks Co., 15 South, Baltimore, Md., & Norfolk, Va.

San Francisco Bridge Co., San Francisco, Cal., & 21 Park row, New York
Scott, Thos. A. Co., New London, Conn.

Scully, John T., Foundation & Transportation Co., Cambridge, Mass.
Sea Coast Construction Co., 253 5th av., New York

Smith Construction Co., 2931 Easton av., St. Louis, Mo.
Smith, H. W. & E. G., 362 Border, Boston, Mass.

Spearin & Preston, 90 West, New York
Staats, R. P. & J. H., 29 B'way, New York

Standard Contracting Co., 63 Wade bldg., Cleveland, O.
Steers, Henry, Jr., 1 B'way, New York

Stebbins, W. L., Monadnock blk., Chicago, Ill.
Stender, F. O. & Co., 139 Rbodes, Providence, R. I.

STEWART, JAS. & CO., New National Bank of Commerce bldg, St. Louis, Mo. (For complete list of branch offices, see end of book)

Stillman, F. M. Co., 26 Exchange pl., Jersey City, N. J.
Strong, Chas. H., & Son, Cleveland, O.

Sweeten, B. F., & Son, Camden, N. J.
Tatnall-Brown Co., 109 Kling, Wilmington, Del.

Terry, J. C., Fall River, Mass.
Triune City Construction Co., Norfolk, Va.

Trumbull, C. E. Co., 1121 Tremont bldg, Boston, Mass.
Tidd, Lyman R., 166 Devonshire, Boston, Mass.

Walsh, Jno. D., 397 Hancock, Brooklyn, N. Y.
Walsh & Masterson, 95 Clark, Chicago, Ill.

Waterhouse, C. R., Jr., New Haven, Conn.
Wetherill Bros. Contracting Co., Chester, Pa.

Whitney Bros., Superior, Wis.
Zachan, August, Superior, Wis.

Pile Driving Machinery

(See Machinery. Pile Driving)

Pile Shoes

Bethlehem Foundry & Machine Co. (Cast Iron), South Bethlehem, Pa.

Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
MUNDY, J. S., 22 Prospect, Newark, N. J. (See adv. index & branch offices, end of book)
NATIONAL HOISTING ENGINE CO., Harrison, N. J. (See adv. index & branch offices, end of book)
 Toledo Foundry & Machine Co., Toledo, O.
 Vulcan Iron Works, 59 Milwaukee av., Chicago, Ill.

Piles (Concrete)

Corrugated Concrete Pile Co. of America, 1170 B'way, New York
 Cranford Paving Co., 15th & G, N W, Washington, D. C.
 Cummings Structural Concrete Co. (Reinforced), Commonwealth bldg., Pittsburg, Pa.
 Foundation Co. (Engineers & Contractors), 115 B'way, New York
 Goff, Horner & Co. (Ltd.) ("Cummings" Reinforced), Frick bldg., Pittsburg, Pa.
 Lock Joint Pipe Co. (Cement Lock Joint), 346 B'way, New York
 Mess, L. & Co. (Compressed System), San Francisco, Cal.
 Raymond Concrete Pile Co. ("Raymond"), 135 Adams, Chicago, Ill.
 Simplex Concrete Piling Co. ("Simplex"), 3400 Disston, Phila., Pa.
 Underwriters Engineering & Construction Co., 1170 B'way, New York

Piles (Ocean Pier, etc.)

National Tube Co. (Tubular Pipe), Pittsburg, Pa.

Piling (Interlocking Sheet Wood)

United States Steel Piling Co., 135 Adams, Chicago, Ill.

Piling (Interlocking Steel)

Carnegie Steel Co. ("Friestedt" Interlocking Channel Bar), Pittsburg, Pa.
 Goff, Horner & Co. (Reinforced), Frick bldg., Pittsburg, Pa.
 Jackson, Geo. W. (Inc.) ("Jackson's"), 169 W Jackson boul, Chicago, Ill., & 46 Wall, New York
 Lackawanna Steel Co., Buffalo, N. Y.
McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)
 United States Steel Piling Co., 135 Adams, Chicago, Ill.
 Wemlinger Steel Piling Co., 11 B'way, New York

Piling Lumber

(See Ties, Poles & Posts)

Piling (Sheet)

Norfolk Creosoting Co., Norfolk, Va.

Piling (Sheet Steel)

Carnegie Steel Co. ("United States"), Pittsburg, Pa.
McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)
 ton". Shoe, etc.), 693 B'way, New York
 Vanderkloot Steel Piling Co., 135 Adams, Chicago, Ill.
 Wemlinger Steel Piling Co., 11 B'way, New York

Pinch Dogs (Pattern Makers')

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Johnson, Wm. (Hedenberg Works), Newark, N. J.

Pinchers

Arcade Mfg. Co. (Cast Iron), Freeport, Ill.
 Atha Tool Co. (Farriers, etc.), ft. of Chapel, Newark, N. J.
 Champion Tool Co. ("Maud-S" Farriers', Carpenters & Hardware), Meadville, Pa.
 Dicke Tool Co. (Farriers, etc.), Downers Grove, Ill.
 Falls Mfg. Co., San Francisco, Cal.
 Hardware & Woodenware Mfg. Co. ("Brighton" Shoe, etc.), 693 B'way, New York
 Heller Bros. Co., 879 Mt. Prospect av., Newark, N. J.
 Osborne, C. S. & Co. ("C. S. O. & Co.", Saddlers), Harrison, N. J.

Peck, Stow & Wilcox Co. (All Kinds), Southington, Conn.
 Smith, H. D., & Co. ("S." "H. D. S. & Co." Blacksmiths' Shoeing, Carpenters', Farriers', Drop Forged), Plantsville, Conn.
 Star Heel Plate Co., 63 Polk, Newark, N. J.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Drop Forged, Carpenters', Blacksmiths', Farriers'), 875 W Carroll av, Chicago, Ill.
 Washington Tool Co. ("Larson" Combination, etc.), Owatonna, Minn.

Pinions

(See Gears & Pinions)

*Pinions (Car Motor)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

*Pinions (Cut)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

*Pinions (Combination Mill)

FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)

Pinions (Electric Railway)

(See Gears & Pinions)

*Pinions (Made to Order)

NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

*Pinions (Mine Motor)

NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

*Pinions (Mining Machine)

NUTTALL, R. D. CO., Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

*Pinions (Pressed Steel)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Pinions ("Quride")

(See Gears & Pinions, "Quride")

Pinions (Rawhide)

(See Gears & Pinions, Rawhide)

Pins (Air Brake)

American Iron & Steel Mfg. Co., Lebanon, O.
 Champion Rivet Co. (Air Brake), Cleveland, O.
 Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Oliver Iron & Steel Co., Pittsburg, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Solid Steel Tool & Forge Co., Brackenridge, Pa.
 Steel Car Forge Co., Pittsburg, Pa. Works: Elwood City, Pa.

Pins (Belaying)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Dubuar, J. A. Mfg. Co., Northville, Mich.
 Laughlin, Thos. Co., Portland, Me.
 McMillan's, W. H. Sons, 153 South, New York
 Marine Hardware & Equipment Co., South Portland, Me.
 Maryland Steam Block & Pump Works, Baltimore, Md.
 Oshkosh Tool Mfg. Co., Oshkosh, Wis.
 Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.
 Wilcox, Crittenden & Co., Middletown, Conn.

Pins (Blanket)

Kohler, F. E., & Co. ("Ideal"), Canton, O.

Pins (Brass, Dress, Etc.)

Crescent Brass & Pin Co. (Bank & Office Brass), Detroit, Mich.
 Howe Mfg. Co. (Also Shawl, Book, Corking & Mourning), Derby, Conn.
 Star Pin Co. (Brass, Mourning, Hair, etc.), Derby, Conn.

Pins (Bricklayers' Line)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
 Stortz, John, & Son, 210 Vine, Phila. Pa.

Pins (Butchers' Block)

Vaughn & Bushnell ("V. & B." Wrought Steel), 875 W Carroll av, Chicago, Ill.

Pins (Chain)

Transue & Williams Co., Alliance, O.

Pins (Channel)

Ristine Co. ("Acme"), The Rookery, Chicago, Ill.

Pins (Clothes)

Dermeritt & Palmer Packing Co. ("U. S." Spring), Waterbury, Vt.
 Dodge Clothespin Co., Coudersport, Pa.
 Escanaba Woodenware Co., Escanaba, Mich.
 Estes, E. B. & Sons, 75 Warren, New York
 Mann, Lewis M., & Son, West Paris, Me.
 Peirce, W. E. & Co., Milford, N. H.
 Putnam, C. C., & Son ("Putnam" Spring), Putnamville, Vt.
 Tennant, Sherman (Est. of), Northville, N. Y.
 U. S. Clothespin Co., Montpelier, Vt.

Pins (Coupling)

(See Links & Pins, Coupling)

Pins (Dowel)

(See also Dowels, Various Kinds)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Cleveland Fillet Co. (Pattern Makers' Wood & Metal), Cleveland, O.
 Connecticut Box Co., New Haven, Conn., & 30 Church, New York
 Hawker, W. S. Mfg. Co., Dayton, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Igoe Bros. (Barbed), 69 Metropolitan av, Brooklyn, N. Y., & Newark, N. J.
 Kokomo Steel & Wire Co. (Barbed), Kokomo, Ind.
MORSE, FRANK W., 516 Atlantic av., Boston, Mass. (See adv. index, end of book)
 Norton Iron Works (Barbed), Ashland, Ky.
 Oliver Machinery Co. (Brass), Grand Rapids, Mich.
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
 Phillips, Townsend & Co., N 4th & Glenwood av, Phila., Pa.
 Rowe, Henry Mfg. Co. (Wood), Newaygo, Mich.
 Shanafelt Mfg. Co. (Brass & Wood), Canton, O.
 Stephenson Mfg. Co. (Pointed & Spiral Grooved, etc., Wooden), South Bend, Ind.
 Winkley Co. (Brass), Hartford, Conn.
 Youngstown Sheet & Tube Co. (Barbed), Youngstown, O.

*Pins (Drapery)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Pins (Drift)

CLEVELAND PUNCH & SHEAR WORKS Co., Cleveland, O. (See adv. index, end of book)
 Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.
 Oliver Iron & Steel Co., Pittsburg, Pa.

Pins (High Tension)

Metal Finishing Co., Union City, Conn.

Pins (Hinge)

Corbin Screw Corporation, New Britain, Conn.
NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
 Reed & Prince Mfg. Co., Worcester, Mass.

Pins (Insulator)

(See Cross Arms, Brackets, Etc., Steel; also Cross Arms, Wood)

Pins (Knuckle)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Champlon Rivet Co., Cleveland, O.
 Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Oliver Iron & Steel Co., Pittsburgh, Pa.
 Q. M. S. Co. (Drop Forged), Plainfield, N. J.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."), Farmers' Bank bldg, Pittsburgh, Pa.

Pins (Picket or Tent)

NIAGARA FALLS METAL STAMPING Co. (Picket & Tent), Niagara Falls, N. Y. (See adv. index, end of book)
 Oliver Iron & Steel Co. (Straight or Spiral), Pittsburgh, Pa.

Pins (Rolling)

Sommer's, Jno. Son (Wooden), Newark, N. J.
 Hawes-Laanna Co., Towanda, Pa.

Pins (Safety)

American Pin Co., Waterbury, Conn.
 Consolidated Safety Pin Co., Bloomfield, N. J.
 Oakville Co., Waterbury, Conn.

Pins (Sash)

Estes, E. B. & Sons (Wooden), 75 Warren, New York
 Kearsage Peg Co. (Wood), Bartlett, N. H.
 Peirce, W. E. & Co. (Wood), Milford, N. H.
 Western Brass Mfg. Works (Brass & Bronze), 21st & Rockwell, Chicago, Ill.
 Wire Goods Co. (Barbed), Worcester, Mass.

Pins (Special)

Blake & Johnson Co. (Aluminum & German Silver), Waterbury, Conn.
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
 Progressive Mfg. Co. (Steel, Copper, Brass German Silver, etc.), Torrington, Conn.

Pins (Stove Door)

Corbin Screw Corporation ("Kuhn's"), New Britain, Conn.
 Ohio Nut & Bolt Co., Berea, O.

Pins (Taper)

Anthony Screw Co., Worcester, Mass.
 Cassady-Fairbanks Mfg. Co., 610 La Salle, Chicago, Ill.
 Chicago Screw Co., 519 Homan av, Chicago, Ill.
 Cincinnati Screw & Tap Co., Twilight, O.
 Corbin Screw Corporation, New Britain, Conn.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
 Hartford Machine Screw Co., Hartford, Conn.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
NATIONAL-ACME MFG. CO. (Standard Steel), 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
 Perry-Fay Mfg. Co., Elyria, O. (See adv. index, end of book)
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
 Pittsburgh Screw & Bolt Co., Pittsburgh, Pa.
 St. Louis Screw Co., 600 E. Clarence, St. Louis, Mo.
 Standard Tool Co., Central av & P. Ry, Cleveland, O.
 Wells, F. E. & Son Co., Greenfield, Mass.
 Western Automatic Machine Screw Co., Elyria, Ohio
 Worcester Machine & Screw Co., Worcester, Mass.

Pins (Telegraph)

Oliver Iron & Steel Co. (Steel), Pittsburgh, Pa.

Pins (Turn)

Johnson, Wm. (Hedenberg Works), Newark, N. J.

Pipe Asphalted

National Tube Co., Pittsburgh, Pa.

Pipe Bending Machines

(See Machines, Pipe Bending)

Pipe Bends & Coils

Albright, Son & Co. (Wrought Iron), Allentown, Pa.
 American Foundry & Construction Co., 4716 2d av, Pittsburgh, Pa.
 American Tube Works, 20 Gold, New York
ANDERSON FORGE & MACHINE CO., 271 Guion, Detroit, Mich. (See adv. index, end of book)
 Best Mfg. Co. (Bend from 1-8 to 30), 25th & R. R., Pittsburgh, Pa.
 Boston Copper Works Co., 84 Marginal, E. B., Boston, Mass.
 Casey-Hedges Co., Chattanooga, Tenn.
CORNELL & UNDERHILL, 47 Beach, New York. (See adv. index, end of book)
 Dame & Townsend Co., Cliff & Fulton, New York
 Detroit Shipbuilding Co. (Brass Dept.) (Copper), Detroit, Mich.
 Goetz & Flodin Mfg. Co. (Copper), 109 W. Chicago av, Chicago, Ill.
 Harris, Arthur & Co. (Copper), 44 N. Curtis st, Chicago, Ill.
 Harrisburg Pipe & Pipe Bending Co. (Iron, Copper & Brass), Harrisburg, Pa.
 Kellogg, M. W., Co., 50 Church, New York
 Kelly & Jones Co., 135 Water, Pittsburgh, Pa.
 Langsenkamp, Wm. & Son, Indianapolis, Ind.
 Lumsden & Van Stone Co., Boston, Mass.
 Mitchell, W. K. & Co., Schuylkill av & Ellsworth, Philadelphia, Pa.
 National Pipe Bending Co. (Brass, Iron & Copper), New Haven, Conn.
 National Tube Co., Pittsburgh, Pa.
 Philadelphia Pipe Bending Works, 4129 N 5th, Phila., Pa.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
 Pittsburg Piping & Equipment Co. (Up to 30 inches in diameter), 34th & Smallmann, Pittsburgh, Pa.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
 Rempe Co. (Wrought Iron), N. Sacramento & Carroll avs, Chicago, Ill.
SCAIFE, WM. B., & SONS CO. (Copper), 221 1st av, Pittsburgh, Pa. (See adv. index, end of book)
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)
 Simmons Pipe Bending Works, 142 Centre, New York. Factory: Newark, N. J.
 Vogt, Henry Machine Co., Louisville, Ky.
 Walworth Construction & Supply Co., 100 Pearl, Boston, Mass.
 Whitlock Coil Pipe Co. (Iron, Brass & Copper), Hartford, Conn.

Pipe (Block Tin)

(See also Lead Pipe & Sheet & Pig Lead)

American Pipe Mfg. Co. ("The Phipps"), 114 N Broad, Phila., Pa.
 Blatchford, E. W. Co., 70 N Clinton, Chicago, Ill.
 Chadwick-Boston Lead Co., Boston, Mass.
 Colwell Lead Co., 109 Lafayette, New York
 Lewis, Jno. T. & Co., 231 S Front, Phila., Pa.
 National Lead Co., 100 William, New York
 National Lead & Oil Co. of Pa., Pittsburgh, Pa.
 Robertson, Jas. Mfg. Co., 14 S Hanover, Baltimore, Md.
 Selby Smelting & Lead Co., San Francisco, Cal
 United Lead Co., 100 William, New York

Pipe Buckles

Boston Bolt Co., 40 Farnsworth, Boston, Mass.

Pipe (Cast Iron)

(See Cast Iron Pipe Manufacturers for Gas & Water Mains; also Cast Iron Soil Pipe Manufacturers)

Pipe (Cast Iron Drain or Culvert)

Gallon Iron Works Co., Gallon, Ohio
 National Cast Iron Drain Pipe Co. (Short Length Drain Pipe), 220 B'way, New York

***Pipe (Cast Iron, High Pressure)**

PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Pipe (Cast Steel)

Penn Steel Casting & Machine Co. (From 6 inch Up), Chester, Pa.
 Seaboard Steel Casting Co., Chester, Pa.

Pipe Cement (Cast Iron Soil)

SMOOTH-ON MFG. CO., 572 Communipaw av, Jersey City, N. J. (See adv. index & branch offices, end of book)

Pipe Clamps (Steam Joint)

(See Clamps, Pipe)

Pipe Coils

(See Pipe Bends & Coils)

***Pipe Covering or Casing (Steam Wyckoff Waterproof)**

WYCKOFF, A. & SON CO., Elmira, N. Y. (See adv. index, end of book)

Pipe Coverings

(See Pipe & Boiler Coverings, Various Kinds)

Pipe (Culvert, Metallic)

Economy Culvert Co. (Corrugated Metal), Auburn, N. Y.
 Isham-Miller Co. (Inc.) (Sectional), Butternut, Mich.
 Penna Metal Culvert Co. (Corrugated Metal), Warren, Pa.

Pipe Cutting & Threading Machines

(See Machines, Pipe Cutting & Threading)

Pipe Fittings

(See Fittings, Pipe, Etc.)

Pipe (Flange, Flexible Joint)

United States Cast Iron Pipe & Foundry Co., 71 B'way, New York, & The Rookery, Chicago, Ill.

***Pipe Foundry Plants**

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index, end of book)

Pipe (Galvanized Iron)

(See Pipe & Tube Mills)

Pipe (Glass)

(See Glass Pipe Manufacturers)

Pipe Holders

(See Holders, Pipe Nipple)

Pipe (Hydraulic)

American Pipe Mfg. Co. ("Phipps") Patent Iron Riveted, Cement Lined), 112 N Broad, Phila., Pa.
AMERICAN SPIRAL PIPE WORKS, W., 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)

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THE CANTON BOILER & ENGINEERING CO.

Canton, Ohio, U. S. A.

National Tube Co. (For High Pressure Oil & Natural Gas Lines), Pittsburg, Pa.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av. Pittsburg, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
 Power & Mining Machinery Co. (Riveted Steel), Cudahy, Wis.
 Reading Iron Co., Reading, Pa.
 Union Iron Works, Spokane, Wash.
 Youngstown Sheet & Tube Co., Youngstown, O.

Pipe (Hydraulic, Steel Riveted)

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. index & branch offices, end of book)
AMERICAN SPIRAL PIPE WORKS ("Taylor's"), W. 14th & 48th av. Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
 Aurora Boiler Works (Inc.), Aurora, Ill.
CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Pittsburg Steel Construction Co., Lewis blk., Pittsburg, Pa. Works; Economy, Pa.
 Pollock, Wm. B. Co., Youngstown, O.
 Power & Mining Machinery Co., Cudahy, Wis.
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Pipe (Iron, Lead & Tin Lined)

Lead Lined Iron Pipe Co., Wakefield, Mass.
 Non-Corrosive Valve & Pipe Co., 25 W. 1st, S. B., Boston, Mass.

Pipe Joint Paste

(See Cements, Pipe Joint)

Pipe Jointing Materials

Leadite Co. of America ("Leadite" for Water Mains), 1215 Filbert, Phila., Pa.

Pipe (Kalameined)

National Tube Co., Pittsburg, Pa.

Pipe (Lead)

(See Lead Pipe, Sheet & Pig Lead)

Pipe (Lead, Tin Lined)

(See also Lead Pipe & Sheet & Pig Lead)
 Bailey-Farrell Mfg. Co., 3d & Ross, Pittsburg, Pa.
 Chadwick-Boston Lead Co., Boston, Mass.
 Colwell Lead Co., 109 Lafayette, New York
 Lewis, Jno. T. & Bros. Co., 231 S Front, Phila. Pa.
 National Lead Co., 100 William, New York
 Tatham & Bros., 261 Water, New York
 United Lead Co., 100 William, New York

Pipe (Lock Bar, Steel)

East Jersey Pipe Co. ("Ferguson"), Paterson, N. J.

*Pipe (Punched & Formed Sheets)

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. index & branch offices, end of book)
AMERICAN SPIRAL PIPE WORKS, W. 14th & 48th av. Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
SHAW, BENJ. F. CO. ("Shaw's"), Wilmington, Del. (See adv. index, end of book)

Pipe (Railroad Culvert)

Dickey, W. S., Clay Mfg. Co., Kansas City, Mo.
 Evens & Howard Fire Brick Co., St. Louis, Mo.

*Pipe (Recessed Joint)

SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Pipe (Riveted Steel)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ABENDROTH & ROOT MFG. CO. (Straight Seam & "Root" Spiral), Newburgh, N. Y. (See adv. index & branch offices, end of book)
AMERICAN SPIRAL PIPE WORKS (And Sheet Iron, "Taylor's"), W. 14th & 48th av. Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)
 Carroll-Porter Boiler & Tank Co., Empire bldg., Pittsburg, Pa. Works; Wellsville, O.
 Columbiana Boiler Co., Columbiana, O.
CONNERY & CO., 9th & Master, Phila., Pa. (See adv. index, end of book)
 Consolidated Pipe Co., Los Angeles, Cal.
 East Jersey Pipe Co. (Water & Sewer), Paterson, N. J.
 Elba Iron Mfg. Co., Beverly, N. J.
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Gillespie, T. A., Westinghouse bldg., Pittsburg, Pa., & 90 West, New York
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

Hammond Iron Works, Warren, Pa.
 Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.

Hodge Boiler Works, Boston, Mass.
 Honolulu Iron Works Co., Honolulu, Hawaii
KEELER, E. CO., Williamsport, Pa. (See adv. index & branch offices, end of book)
 King Bridge Co., Cleveland, O.
 Kittoe Boiler & Tank Co., Canton, O.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
 Lacy Mfg. Co., Los Angeles, Cal.
 Leetonia Boiler Co., Leetonia, O.
 Leffel, Jas. & Co. (Inc.), Springfield, O.
 McAleenan Boiler Co., Peoria, Ill.
 McNeill, Jas. & Bro. Co., Pittsburg, Pa.
 Meehan Boiler & Construction Co., Lowellville, Ohio

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Pelton Water Wheel Co., Monadnock bldg., San Francisco, Cal., & 90 West, New York
PETROLEUM IRON WKS. CO. ("Lowe"), Sharon, Pa., & Farmers' Bank bldg., Pittsburg, Pa. (See adv. index, end of book)
 Phoenix Iron Works, Meadville, Pa.
 Pollock, Wm. B. Co., Youngstown, O.
 Power & Mining Machinery Co., Cudahy, Wis.

REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
 Riter-Conley Mfg. Co., 55 Water, Pittsburg, Pa., & 111 B'way, New York
 San Francisco Bridge Co., San Francisco, Cal., & 1 Park Row, New York
SCAIFE, WM. B. & SONS CO., 221 1st av. Pittsburg, Pa. (See adv. index, end of book)

Schaw-Batcher Co., San Francisco, Cal.
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)
 Smith, Francis & Co., 83 Fremont, San Francisco, Cal.
 Springfield Boiler & Mfg. Co., Springfield, Ill.
 Standard Boiler & Plate Iron Co., Niles, O.
 Struthers-Wells Co., Warren, Pa.
 Trump Mfg. Co., Springfield, O.
 Tudor Boiler Mfg. Co., Cincinnati, Ohio
 Union Iron Works, Spokane, Wash.
 Union Iron Works Co., San Francisco, Cal.
 Warren City Boiler Works, Warren, O.
 Weigle Riveted Steel Pipe Works, Larimer & 30th, Denver, Colo.
 Western Pipe & Steel Co., Los Angeles, Cal.

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(See Tubing, Cold Drawn Seamless Steel)

*Pipe (Seamless Pontoon)

SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

*Pipe (Seamless Rolled Steel)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A V Ry., Pittsburgh, Pa. (See adv. index, end of book)

Pipe (Spiral Lock Seam)

Lamb & Ritchie Co., Cambridge, Mass.

Pipe (Spiral Riveted)

ABENDROTH & ROOT MFG. CO. (For Pressures up to 300 lbs.), Newburgh, N. Y. (See adv. index & branch offices, end of book)

Abendroth & Stein (Inc.), 39 Cortlandt, New York

AMERICAN SPIRAL PIPE WORKS ("Taylor's" Steel), W. 14th & 48th av., Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index, & branch offices, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A V Ry., Pittsburgh, Pa. (See adv. index, end of book)

*Pipe Stands (Portable)

ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)

Pipe (Steel)

(See Pipe & Tube Mills)

Pipe (Steel Riveted)

(See Pipe, Riveted Steel)

Pipe Stocks & Dies

(See Stocks & Dies)

Pipe Thawing Apparatus

French, S. K., Brooklyn, Mich.

Pipe Threading Machines

(See Machines, Pipe Cutting & Threading)

Pipe (Tin Lined)

(See Pipe, Iron, Lead & Tin Lined)

Pipe (Tuyere)

Albright, Son & Co., Allentown, Pa.
Hartman Co. (Etc., for Blast Furnace), 1231 N Front, Phila., Pa.
National Tube Co., Pittsburg, Pa.

Pipe (Welded Iron & Steel)

Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa.
Kellogg, M. W., Co., 50 Church, New York
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Pipe Welding

Rempe Co. (By Electricity), N Sacramento & Carroll avs, Chicago, Ill.
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Pipe (Wood)

American District Steam Co., Lockport, N. Y.
Eastern Mfg. Co. ("Elmira"), Elmira, N. Y.
Excelsior Wooden Pipe Co. (Wooden Stave Pipe), San Francisco, Cal.

Michigan Pipe Co. (Improved Wyckoff), Bay City, Mich.

Holmes & Allen Pipe & Construction Co. (Wood Stove Pipe), Denver, Colo.

Michigan Pipe Co. (also Wood, Acid), Bay City, Mich.

National Wood Pipe Co. ("Woodward"), 268 Market, San Francisco, Cal., & Los Angeles, Cal.

Puget Sound Pipe Co., Olympia, Wash.

Soderberg, J. A. & Co., Seattle, Wash.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Washington Pipe & Fdry. Co., Tacoma, Wash.

Williamsport Wooden Pipe Co. (Up to 12 inches), Williamsport, Pa.

WYCKOFF, A. & SON CO., Elmira, N. Y. (See adv. index, end of book)

Woods, G. R. Sons, Sheffield, Pa.

Wyckoff Pipe & Creosoting Co. (Acid Proof), 50 Church, New York

Pipe (Wood Fibre)

Fibre Conduit Co., Orangeburg, N. Y.

*Pipe (Wooden Stave)

BALTIMORE COOPERAGE CO., THE, c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

Pipe (Wrought Iron, Cement Lined)

American Pipe Mfg. Co. ("Phipps'" Patent), 114 N Broad, Phila., Pa.

Pipe (Wrought Iron, Jobbers)

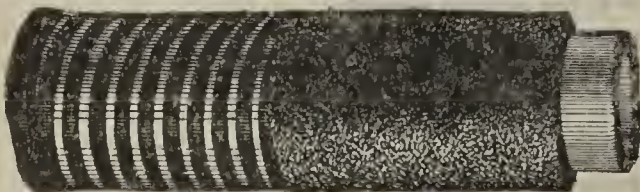
(See also Steam Fitters' Supplies; for Manufacturers see Pipe & Tube Mills)

CORNELL & UNDERHILL, 47 Beach, New York. (See adv. index, end of book)

McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

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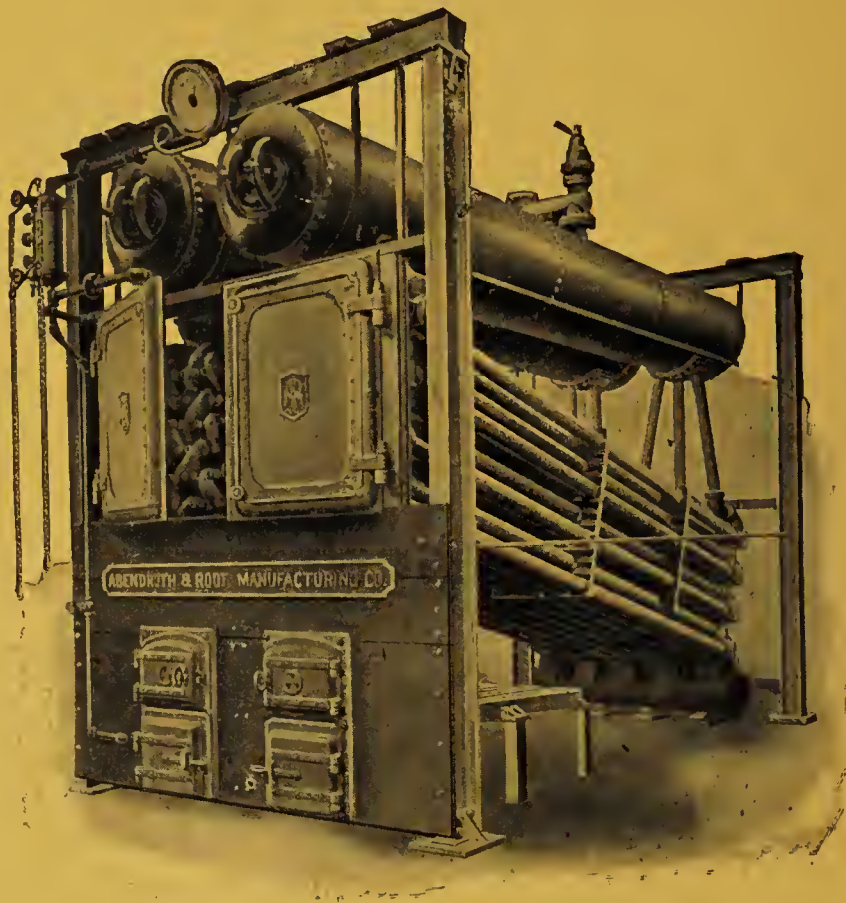
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PFAFF & KENDALL (New & Second Hand), Ferry & Foundry, Newark, N. J. (See adv. index, end of book)
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)
SIMMONS, JOHN CO., 110 Centre, New York. (See adv. index, end of book)
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Pipe (Wrought Iron Mfrs.)

(See Pipe & Tube Mills; also Tubing)
 Seamless Steel, Etc.)

*Pipe (Wrought Iron, Second-Hand)

PFAFF & KENDALL, Ferry & Foundry, Newark, N. J. (See adv. index, end of book)

Pipe (Wrought Steel)

(See Pipe & Tube Mills)

Pipe & Boiler Covering Mfrs.

(See Sub-classifications following)

(For Jobbers in these Goods, see Mill & Factory Supplies; also Steam Fitters' Supplies Jobbers)

Ainsworth Covering Co. (Asbestos), Wilmington, Del.
 American Asbestos Co., Minneapolis, Minn.
 American Insulating Material Mfg. Co. (Granite Rock Wool), Alexandria, Ind.
 Barrett Mfg. Co., Land Title bldg., Philadelphia, Pa.
 Bonsall & Son, 362 Northland av. Buffalo, N. Y.
 Bowen & Martin, 112 S 2d, Phila., Pa.
 Boyd, Jas. & Bro., 14 N 4th, Phila., Pa.
 Brunett, Frank O. (Asbestos), 396 Smith, Brooklyn, N. Y.
 Carey, Philip Mfg. Co. (Asbestos & Magnesia), Lockland, O.
 Chicago Fireproof Covering Co., 171 Randolph, Chicago, Ill.
 Conkling, S. P., 20 Atwater, E., Detroit, Mich.
 Covering & Supply Co. (Magnesia-Asbestos), 232 West, New York
 Douglas, Daniel R., & Co. (Dealers & Contractors), 136 Liberty, New York
 Ehret Magnesia Mfg. Co., Land Title bldg., Phila., Pa.
 Federal Asbestos Mfg. Co. (Asbestos), Alliance, O.
 Fossil Meal Co., 2 Cedar, N. Y.
 Franklin Mfg. Co. (Asbestos), Franklin, Pa.
 Gilmour R. M. Mfg. Co., 105 John, New York
 Hardy & Tierney (Asbestos & Hair Felt), 410 E 23d, N. Y.
 Houghton, E. F. & Co. ("Virtue" Sectional Asbestos), 240 Somerset, Phila., Pa.
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey, Robert A., 100 N Moore, New York
 Keasbey & Mattison Co. (Main Office & Works, Ambler, Pa.), 100 Johns, New York
 Kramig, R. E. & Co. (Asbestos), 234 E 6th, Cincinnati, O.
 Magnesia Covering Co., North American bldg., Philadelphia, Pa.

Manville Covering Co., 283 Pitman, Providence, R. I.
 Midland Asbestos Co., Kansas City, Mo.
 National Air Cell Covering Co. (Air Cell & Wool Felt), 200 Van Brunt, Brooklyn, N. Y.
 New Jersey Asbestos Co., Camden, N. J.
 New York Asbestos Mfg. Co. (Asbestos & Magnesia), 80 John, New York
 Nightingale & Childs Co., 205 Congress, Boston, Mass.
 Norristown Magnesia & Asbestos Co. (Asbestos), etc.), Norristown, Pa.
 Nott, W. S. Co., Minneapolis, Minn.
 Oil City Asbestos Co., Oil City, Pa.
 Racich, Jacob, 525 W 54th, New York
 Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.
 Selph, Jno. A. (Asbestos Magnesia), Richmond, Va.
 Springfield Asbestos Co., 54 Taylor, Springfield, Mass.
 Standard Pipe Covering Co., 3748 E 71st, Cleveland, O.
 Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
 Union Fibre Co. ("Lith," Cork), Winona, Minn.
 U. S. MINERAL WOOL CO. (Mineral Wool), 140 Cedar, New York. (See adv. index, end of book)
 Vallean, T. M. & Co., 192 West, New York
WATSON, H. F. CO. (Asbestos), Erie, Pa. (See adv. index & branch offices, end of book)
WYCKOFF, A. & SON CO. (Water Proof Covering for Underground or Exposed Use), Elmira, N. Y. (See adv. index, end of book)

Pipe & Boiler Coverings (Air Cell)

Keasbey & Mattison Co. (Wool, Felt, etc.), Ambler, Pa.
 Norristown Magnesia & Asbestos Co., Norristown, Pa.

Pipe & Boiler Coverings (Asbestos)

Ainsworth Covering Co., Wilmington, Del.
 Asbestos Felting Works, 79 Maiden la., New York
 American Asbestos Co., Minneapolis, Minn.
 Brunett, Frank O., 396 Smith, Brooklyn, N. Y.
 Carey, Philip Mfg. Co., Lockland, O.
 Chicago Asbestos Mfg. Co., 78 W 22d pl, Chicago, Ill.
 Chicago Fire Proof Covering Co., 171 Randolph, Chicago, Ill.
 Covering & Supply Co., 232 West, New York
 Ehret Magnesia Mfg. Co., Land Title bldg., Phila., Pa.
 Federal Asbestos Mfg. Co. (Rope & Wick), Alliance, O.
 Florence Asbestos & Covering Co., Paterson, N. J.
 Franklin Mfg. Co., Franklin, Pa.
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Hardy & Tierney, 410 E 23d, New York
 Houghton, E. F. & Co. ("Virtue"), 240 Somerset, Phila., Pa.

Johns, H. W.-Manville Co., 100 William, New York
 Keasbey & Mattison Co. (Moulded), Main Office & Works, Ambler, Pa.
 Kramig, R. E. & Co., 234 E 6th, Cincinnati, O.
 New Jersey Asbestos Mfg. Co., Camden, N. J.
 New York Asbestos Mfg. Co. (Air Cell & Moulded), 80 John, New York
 Norristown Magnesia & Asbestos Co., Norristown, Pa.
 Oil City Asbestos Co., Oil City, Pa.
 Sall Mountain Asbestos Mfg. Co., 68 S Canal, Chicago, Ill.
 Springfield Asbestos Co., 54 Taylor, Springfield, Mass.
 Standard Pipe Covering Co., 3748 E 71st, Cleveland, O.
 Trainer, C. W. Mfg. Co., 89 Pearl, Boston, Mass.
WATSON, H. F. CO. ("Imperial"), Erie, Pa. (See adv. index & branch offices, end of book)

Pipe & Boiler Coverings (Cement)

Chicago Fire Proof Covering Co., 171 Randolph, Chicago, Ill.
 Ehret Magnesia Mfg. Co., Land Title bldg., Phila., Pa.
 Federal Asbestos Mfg. Co. (Cement Felting), Alliance, O.
 Gilmour, R. M. Mfg. Co., 105 John, New York
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey, Robert A., 100 N Moore, New York
 Smith, Thos. F., 20 Cedar, New York
 Springfield Felting Co., Springfield, Mass.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Pipe & Boiler Coverings (Cork)

Armstrong Cork Co., 23d & River, Pittsburg, Pa.
 Nonpareil Cork Works, 50 Church, New York
 Union Fibre Co. ("Lith"), Winona, Minn.

Pipe & Boiler Coverings (Felt)

Carey, Philip Mfg. Co., Lockland, O.
 Chicago Fire Proof Covering Co., 171 Randolph, Chicago, Ill.
 Ehret Magnesia Mfg. Co., Land Title bldg., Phila., Pa.
 Johns, H. W.-Manville Co., 100 William, New York
 Keasbey, Robert A. Co., 100 N Moore, New York
 National Air Cell Covering Co. (Wood Felt), 200 Van Brunt, Brooklyn, N. Y.
 Smith, Thos. F., 20 Cedar, New York
 Springfield Felting Co., Springfield, Mass.
WATSON, H. F. CO., Erie, Pa. (See adv. index & branch offices, end of book)

Pipe & Boiler Coverings (Fossil Meal)

Fossil Meal Co. (A. Glesse), 2 Cedar, New York

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Pipe & Boiler Coverings (Magnesia)

Carey, Philip Mfg. Co., Lockland, O.
Detroit Seamless Steel Tubes Co. (Cold Drawn Seamless Steel Boiler Tubes, Automobile Tubes, Stay Tubes, etc.), Detroit, Mich.
Ehret Magnesia Mfg. Co., Land Title bldg., Phila., Pa.
Franklin Mfg. Co. ("K. & M."), Franklin, Pa.
Johns, H. W.-Manville Co., 100 William, New York
Keasbey & Mattison Co. (Sectional). Main Office & Works, Ambler, Pa.
New York Asbestos Mfg. Co. (Air Cell & Moulded), 80 John, New York
Norristown Magnesia & Asbestos Co. ("Diamond N."), Norristown, Pa.

Pipe & Boiler Coverings (Mineral Wool)

American Insulating Material Mfg. Co., Alexandria, Ind.
Columbia Mineral Wool Co., 112 Clark, Chicago, Ill. Works, So. Milwaukee, Wis.
Union Fibre Co., Winona, Minn.
U. S. MINERAL WOOL CO. (Mineral Wool), 140 Cedar, New York. (See adv. index, end of book)

Pipe & Fittings (Wrought Iron) Dealers

(See Steam Fitters' Supplies)

Pipe & Tube Mills

Albright, Son & Co. (Tuyere Pipe), Allentown, Pa.
Byers, A. M. & Co. (Lap & Butt Welded Wrought Iron Pipe, Black & Galvanized, 1 1/4 to 12 inches; also Oil Well Tubing, Castings, etc.), Coatesville, Pa.
Coatesville Rolling Mill Co. (Lap Welded Charcoal Iron 1 1/2 to 8 inches Diameter), Coatesville, Pa.
Cohoes Rolling Mill Co. (Wrought Iron Pipe), Cohoes, N. Y.
Delaware Seamless Tube Co. (Boiler Tubes, etc.), Auburn, Pa.
Harrisburg Pipe & Pipe Bending Co. (Wrought Iron & Steel Pipe), Harrisburg, Pa.

La Belle Iron Works (Black & Galvanized Steam, Gas & Water Pipe, Oil & Gas Line Pipe, Casing, Tubing & Drive Pipe, 1/2 to 12 inches), Steubenville, O.
Longmead Iron Co. (Black & Galvanized Wrought Iron Pipe), Drexel bldg, Phila., Pa.

Mark Mfg. Co. (Black & Galvanized Wrought Iron & Steel Pipe, 1-8 to 20 inches, Boiler Tubes, Casing, Line & Drive Pipe), Evanston, Ill. Mills, Zanesville, O.
Monongahela Tube Co. (Iron & Steel Boiler Tubes), Ferguson bldg., Pittsburg, Pa.
National Tube Co. (Boiler Tubes, Wrought Iron & Steel Pipe for Steam, Gas & Water, Black & Galvanized up to 30 inches, also for Oil Well Casing, Air Line, Brake Beam, Tuyere, Dry Kila, Ammonia, Drive Signal, Conduit, etc.), Pittsburg, Pa.

Ohio Seamless Tube Co. (Seamless Steel Boiler Tubes & Mechanical Tubing), Shelby, O.
Parkesburg Iron Co. (Charcoal Wrought Iron Pipe & Boiler Tubes), Parkesburg, Pa.

Pittsburg Tube Co. (Bedstead Tubing), Pittsburg, Pa.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO. (Jobbers), 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Reading Iron Co. (Wrought Iron Pipe, Boiler Tubes, Oil Well Tubing & Casing 1/2 to 12 inches), Reading, Pa.
Reliance Tube Co. (Lapweld Steel & Charcoal Iron Boiler Tubes, Locomotive Tubing, Line Pipe Casing, etc.), 421 Wood, Pittsburg, Pa., & Brackenridge, Pa.

Seamless Tube Co. of America (Seamless Steel Tubes 1 1/2 to 6 inches; also Boiler Tubes), Pittsburg, Pa.

South Chester Tube Co. (Wrought Iron Pipe), Chester, Pa.

Spang, Chalfant & Co., Inc. (Wrought Iron & Steel Pipe for Water, Gas, Steam & Oil 1/4 to 24 inches & Wrought Iron & Steel Boiler Tubes 1 1/2 to 13 inches), Pittsburg, Pa.

Susquehanna Iron Co. (Lap Welded Wrought Iron Pipe 2 to 10 inches & Butt Welded 1/2 to 2 inches), Columbia, Pa.

Tyler Tube & Pipe Co. (Knobbed Charcoal Iron & Algerite Iron Boiler Tubes), Washington, Pa.

Wheeling Steel & Iron Co. (Wrought Iron & Steel Pipe, Black & Galvanized 1/2 to 16 in., Capacity 400 Tons), Wheeling, W. Va.

Worth Bros. Co. (Charcoal Iron Knobbed Lap-welded Boiler Tubes), Coatesville, Pa.
Youngstown Sheet & Tube Co. (Iron & Steel Pipe, from 3-8 to 12-inch, Black & Galvanized, Merchant, Oil Well Casing, Tubing, Drive & Line Pipe), Youngstown, O.

Pipes (Blow)

(See Blow Pipes & Brazing Apparatus)

Pipes (Flush & Supply)

Diamond Mfg. Co., Detroit, Mich.
Edwardsville Brass Co., Edwardsville, Ill.
Haines, Jones & Cadbury, 1136 Ridge av., Phila., Pa.
Milwaukee Brass Mfg. Co. (Bath & Basin Cock Supply Pipes, etc.), Milwaukee, Wis.
Mullaney's, Jas. Son, 25th & Lex. av, New York
Salem Brass & Iron Mfg. Co., Salem, N. J.
Sanitary Co., Cleveland, O.
Scully, W. J. Ventilator & Mfg. Co., Detroit, Mich.
Watrous Co. ("Watrous" White Metal), Fisher bldg., Chicago, Ill.
Wise, J. B., Watertown, N. Y.

Piping (High Pressure)

Anderson, Darragh Co., 3206 Penn av, Pittsburg, Pa.
Barker, H. R. Mfg. Co. (High Pressure), Lowell, Mass.
Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
Bowers, W. A. Heating Co., 482 Market, Milwaukee, Wis.
Boyd Equipment Co., 113 Hudson, New York
Braman, Dow & Co., 239 Canseway, Boston.
Burlingame, A. Co., Worcester, Mass.
Connell, J. D. Iron Works Co., New Orleans, La.
Crane Co. (Est. 1855) (Steam), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Evans, Almirall & Co., 281 Water, New York
GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av., Phila., Pa. (See adv. index & branch offices, end of book)
Kellogg, M. W., Co. (Van Stone Joint), 50 Church, New York
Kroeschell Bros. Co., 55 Erie, Chicago, Ill.
Faith, S. & Co., 2427 Penna. av, Phila., Pa.
Merrill Co., 19 Pearl, Boston, Mass.
Miller, W. H. Co., Columbus, O.

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Mitchell, W. K. & Co., Schuykill av & Ellsworth, Phila., Pa.
Philadelphia Pipe Bending Works, 4120 N 5th, Phila., Pa.
Pittsburg Piping & Equipment Co., 34th & Smallman, Pittsburg, Pa.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburg, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)
Tullis & Co., 534 W 22d, New York
Washburn & Garfield Mfg. Co., Worcester, Mass.
York Engineering Co. (Inc.) (For Steam, Hydraulic & Electric Plants, etc., District Steam & Underground Piping & Specialty), York, Pa.

Pitch (Asphalt)

Alcatraz Co., 124 Sansome, San Francisco, Cal.
American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
Carey, Philip Mfg. Co., Lockland, O.
Densmore-Stabler Refining Co., Los Angeles, Cal.
Dunderberg Asphalt Co., 6 Fletcher, New York
Globe Asphalt Co., Bakewell bldg, Pittsburg, Pa., & Los Angeles, Cal.
Hercules Oil Refining Co., Los Angeles, Cal.
INDIAN REFINING CO., Cincinnati, O. (See adv. index, end of book)
Southern Refining Co., Los Angeles, Cal.

Pitch (Coal Tar)

Tidewater Oil & Pipe Co., 11 B'way, New York

Pitch (Paving & Roofing)

(See also Coal Tar Products)

American Asphaltum & Rubber Co., Women's Temple, Chicago, Ill.
Amitage Mfg. Co., Richmond, Va.
Barber Asphalt Paving Co., Land Title bldg, Phila., Pa.
Barrett Mfg. Co., Land Title bldg, Phila., Pa.
CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago, Ill. (See adv. index & branch offices, end of book)
Carey, Philip Mfg. Co. (Asbestos Roofing), Lockland, O.
Chatfield Mfg. Co. (Mfrs.), Cincinnati, O.
Coal Tar Product Co., Smith, Brooklyn, N. Y.
Ford Mfg. Co., 109 W Washington, Chicago, Ill.
General Roofing Mfg. Co., East St. Louis, Ill.
Impervious Product Co., 213 St. Paul, Baltimore, Md.
Lewis Roofing Co., Rock Island, Ill.
McClintock & Irvine Co., Pittsburg, Pa.
Martin, W. A. & Co. (Pine), Wilmington, N. C.
Nashville Chemical Co., Nashville, Tenn.
National Coal Tar Co., 17 Battery pl, New York
Schoelkopf, Hartford & Hanna Co., Buffalo, N. Y., & 100 William, New York
Sillman & Godfrey Co., Bridgeport, Conn.
Southern Roofing Co., Atlanta, Ga.
Trinidad Asphalt Mfg. Co., 320 S 21st, St. Louis, Mo.
Union Roofing & Mfg. Co., St. Paul, Minn.

*Pivots (Floor)

BOMMER BROS., 255 Clason av., Brooklyn, N. Y. (See adv. index, end of book)

Planers (Bench)

Bartlett, E. E. ("Federal"), Boston, Mass.
Ideal Machine Works ("Ideal" Hand), 255 39th, Brooklyn, N. Y.

Planers (Buzz)

(See also Planers, Wood)

American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
Baker Bros., Toledo, O.
Berlin Machine Works, Beloit, Wis.
Carey, W. W., Lowell, Mass.
Central Machine Works Co., Minneapolis, Minn.
Colladay, Jos., 626 Race, Phila., Pa.
Cordesman Machine Co., Cincinnati, O.
Crescent Machine Co., Leetonia, O.
Dennis Machine Co., Jackson, Mich.
Frank Machinery Co., Buffalo, N. Y.

Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.
MACKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)
Moshannon Mfg. Co., Philipsburg, Pa.
Oliver Machinery Co., Grand Rapids, Mich.
Silver Mfg. Co., Salem, O.
Smith, H. B. Machine Co., Smithville, N. J.
Stowell, J. A. Co., Leominster, Mass.
Union Iron Works, Bangor, Me.
United States Machine Co. (Or Hand Jointer), Williamsport, Pa.

Planers (Fluting Feed Rods)

Woodward & Powell Planer Co. (for Textile Machines), Worcester, Mass.

Planers for Steel Foundries

Wetherill, R. & Co., Chester, Pa.

Planers (Frog & Switch)

Fitchburg Machine Works, Fitchburg, Mass.
Flather, Mark Planer Co., Nashua, N. H.
Niles-Bement-Pond Co., 111 B'way, New York
Powell Tool Co., Worcester, Mass.
Woodward & Powell Planer Co., Worcester, Mass.

Planers (Gear)

Gleason Works, Rochester, N. Y.

Planers (Hand & Foot Power)

Porter, C. O. & A. D. (Hand), Grand Rapids, Mich.
Shepard Lathe Co., 129 W 2d, Cincinnati, O.

Planers (Hoof)

Champion Tool Co. ("Champion"), Meadville, Pa.

Planers (Hydraulic)

Burroughs, Chas. Co., Newark, N. J.

Planers (Ice, Elevator)

Hiles, C. A. & Co. ("Champion," for Ice Harvesting), 14th & Western av, Chicago, Ill.

Planers (Iron & Steel)

(See Planers, Metal Working)

Planers (Locomotive Connecting Rod)

Woodward & Powell Planer Co., Worcester, Mass.

Planers (Metal Working)

American Tool Works Co., Cincinnati, O.
Betts Machine Co., Wilmington, Del.
Chandler Planer Co., Ayer, Mass.
Cincinnati Planer Co. (24-84 inches), 2235-2239 Buck, Cincinnati, O.
Cleveland Planer Works, 3150 Superior av., N. E., Cleveland, O.
CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)
Fitchburg Machine Works, Fitchburg, Mass.
Flather, Mark Planer Co. (Heavy, etc.), Nashua, N. H.
Gleason Works (Gear), Rochester, N. Y.
Gray, G. A. Co., Gest c C. H. & D. R. R., Cincinnati, O.
Hamilton Machine Tool Co. (24 to 96 inches), Hamilton, O.
Harrington, Edwin Son & Co., 17th & Callowhill, Phila., Pa.
Hiles & Jones Co., Wilmington, Del.
Hodgkins, C. A. Co., Marlboro, N. H.
Ideal Machine Works ("Ideal" Hand for Iron), 255 39th, Brooklyn, N. Y.
Lane Tool Co., 1196 Hamilton, Cleveland, O.
Manning, Maxwell & Moore, 85 Liberty, New York
Morton Mfg. Co. (Portable), Muskegon Heights, Mich.
New Haven Mfg. Co., New Haven, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
Ohio Machine Tool Co., Kenton, O.
Pittsburg Machine Tool Co., Pittsburg, Pa.
Powell Tool Co., Worcester, Mass.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)
Putnam Machine Co., Fitchburg, Mass.
Reed, J. B., Cairo, Ill.
Sellers, Wm. & Co. (Inc.), 1606 Hamilton, Philadelphia, Pa.

WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Whitcomb-Blaissell Machine Tool Co., Worcester, Mass.

Whiting, Baxter D. & Son, Winchendon, Mass.
Wickes Bros., Saginaw, Mich.
Wilkinson, A. J. & Co., Boston, Mass.
Wilson, W. A. Machine Co., Rochester, N. Y.
Woodward & Powell Planer Co., Worcester, Mass.

Planers (Mitre)

Miller's Falls Co. ("Rogers"), 28 Warren, New York. Works, Miller's Falls, Mass.

Planers (Open Side)

Detrick & Harvey Machine Co., Baltimore, Md.
Niles-Bement-Pond Co., 111 B'way, New York

Planers (Plate)

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

Hiles & Jones Co., Wilmington, Del.
Niles-Bement-Pond Co., 111 B'way, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Planers (Pony)

(See also Planers, Wood)

American Sawmill Machinery Co., 50 Church, New York, & Hackettstown, N. J.
American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
Central Machine Works Co., Minneapolis, Minn.
Connell & Dengler Machine Co., Rochester, N. Y.

Cordesman Machine Co., Cincinnati, O.
De Loach Mill Mfg. Co., Bridgeport, Ala.
Fay, J. A. & Egan Co., Cincinnati, O.
Frank Machinery Co., Buffalo, N. Y.
Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.

Howell, R. R. & Co., Minneapolis, Minn.
Lane Mfg. Co., Montpelier, Vt.
Porter, C. O. & A. D., Grand Rapids, Mich.
Power, L. & Co., 20 S 23d, Phila., Pa.
Union Iron Works, Bangor, Me.

Planers (Rail)

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Planers (Rotary)

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

Coie Mfg. Co. (Rotary Bed), Lakeport, N. H.
Newton Machine Tool Works, 2347 Vine, Phila., Pa.
Niles-Bement-Pond Co., 111 B'way, New York
Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
Underwood, H. B. & Co. (Boring Bars), 1023 Hamilton, Phila., Pa.
Whiting, Geo. Co., 156 W North av, Chicago, Ill.

Planers (Slate)

(See also Machinery, Slate)

FLORY, S. MFG. CO., Bangor, Pa. (See adv. index, end of book)
Ruggles Machine Co., Poughkeepsie, N. Y.

Planers (Stave)

(See Barrel Machinery)

Planers (Stone)

(See also Machinery, Stone Working.)

Birmingham Iron Foundry (Regular Planers with Four Heads, Open Side Planers), Derby, Conn.
Farrel Foundry & Machine Co., Ansonia, Conn.
Lincoln Iron Works (Gilmour, etc.), Rutland, Vt.
NEW ALBANY MFG. CO., New Albany, Ind.
Patch, F. R. Mfg. Co., Rutland, Vt.

Planers (Wood)

American Sawmill Machinery Co., 50 Church, New York, & Hackettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg., New York
 Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Bentel & Margedant Co., Hamilton, O.
 Berlin Machine Works, Beloit, Wis.
 Colladay, Jos. O., 653 Race, Philadelphia, Pa.
 Cordesman, Meyer & Co., Cincinnati, O.
 Cordesman, Rehtin Co., Cincinnati, O.
 De Loach Mill Mfg. Co., Bridgeport, Ala.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Frank Machinery Co., Buffalo, N. Y.
 Gerlach, Peter Co. (Single, Double & Four Sided for Chair, Furniture, Box Board, Staves & Heading, etc.), Columbus rd. & Winter, Cleveland, O.
 Greaves, Klusman & Co., Cincinnati, O.
 Hall & Brown Woodworking Machine Co., St. Louis, Mo.
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.
 Howell, R. R. & Co., Minneapolis, Minn.
 Humphrey Machine Co., Keene, N. H.
 Indiana Machine Works Co., Ft. Wayne, Ind.
 Knight Mfg. Co. (Double Surface), Canton, O.
 Lane Mfg. Co., Montpelier, Vt.
 Lovell, F. S. Machine Works, Fitchburg, Mass.
 Oliver Machinery Co. (Surface), Grand Rapids, Mich.
 Power, L. & Co., 20 S 23d, Philadelphia, Pa.
 Prybil, P., 512 W 41st, New York
 Putnam Machine Co., Fitchburg, Mass.
 Salem Iron Works (Inc.), Winston Salem, N. C.
 Seymour & Whitlock (Or Hand Feed Jointing), Newark, N. J.
 Smith, H. B. Machine Co., Smithville, N. J.
STRONG, CARLISLE & HAMMOND
 Co., 336-344 Frankfort av., N. W., Cleveland, O. (See adv. Index, end of book)
 Trevor Mfg. Co., Lockport, N. Y. (book)
 Union Iron Works, Bangor, Me.
 White, John A. & Co., Dover, N. H.
 Whitney, Baxter D. & Son, Winchendon, Mass.
 Wilcox, F. F., Keene, N. H.
 Woods, S. A. Machine Co., Boston, Mass.
 Yerkes & Finnan Wood Working Machine Co., St. Louis, Mo.

Planers & Matchers

American Sawmill Machinery Co., 50 Church, New York, & Hackettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg., New York
 Atlantic Works (Inc.), 2821 Oakford, Phila., Pa.
 Bentel & Margedant Co., Hamilton, O.
 Berlin Machine Works, Beloit, Wis.
 Connell & Dengler Machine Co., Rochester, N. Y.
 Cordesman, Rehtin Co., Cincinnati, O.
 Fay, J. A. & Egan Co., Cincinnati, O.
 Frank Machinery Co., Buffalo, N. Y.
 Greaves, Klusman & Co., Cincinnati, O.
 Hermance Machine Co., Williamsport, Pa.
 Hobbs Mfg. Co., Worcester, Mass.
 Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.
 Indiana Machine Works Co., Fort Wayne, Ind.
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Putnam Machine Co., Fitchburg, Mass.
 Salem Iron Works (Wood), Winston Salem, N. C.
 Smith, H. B. Machine Co., Smithville, N. J.
 Woods, S. A. Machine Co., Boston, Mass.
 Yerkes & Finnan, Woodworking Machine Co., St. Louis, Mo.

Planes

Buck Bros. (Iron), Millbury, Mass.
 Chapin-Stevens Co. (Bench, Ship Moulding & Grooving), Pine Meadow, Conn.
 Gage Tool Co. (Self-Setting), Vineland, N. J.
 Heald, Addison, & Son, Milford, N. H.
 Mack & Co. ("D. R. Barton"), Rochester, N. Y.
 New England Specialty Co. (Metal), North Easton, Mass.
 Ohio Tool Co. (Iron & Wood), Columbus, O.
 Payson Mfg. Co. (Steel), 1319 W. Jackson boul., Chicago, Ill.
 Royal Equipment Co. (Squaring for Carpenters, Pattern Makers, etc.), Bridgeport, Conn.
 Sandusky Tool Co. (Bench, etc.), Sandusky, O.
 Sargent & Co., New Haven Conn., 94 Center, New York
 Smith, Otis A. ("Fales" Patent Bench), Rockfall, Conn.
 Stanley Rule & Level Co., New Britain, Conn., & 107 Chambers, New York

Tower & Lyon Co. (Iron "Towers Perfection"), 95 Chambers, New York
 Union Mfg. Co. ("Union," Iron & Wood), New Britain, Conn.
 White, L. & I. J. Co. (Inc.), Buffalo, N. Y.

Planimeters

Ashcroft Mfg. Co. ("Amsler" & "Coffin" Averaging), 85 Liberty, New York
 Bushnell, Jno. S. & Co., 227 Fulton, New York
CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
 Du Vivier, Ernest H., 30 Church, New York
 Hall Mfg. Co. ("Hall's"), John & Cliff, New York
 Lippincott Steam Specialty & Supply Co. ("Lippincott" & "Simplex"), 52 Columbia, Newark, N. J.
 Robertson, Jas. L. & Sons ("The Willis"), New York
 Schaeffer & Budenberg Mfg. Co. ("Amsler's" Polar), 963 Kent av., Brooklyn, N. Y.
 Star Brass Mfg. Co., Boston, Mass.
 Thompson, Richard & Co., 126 Liberty, New York
 Trill Indicator Co., Corry, Pa.

*Planing Mill Filing Room Equipment

COVEL MFG. CO., Benton Harbor, Mich. (See adv. Index, end of book)

Plank Drawer

Pollard, Jos. G. (Steel), 141 Raymond, Brooklyn, N. Y.

Planters (Bean & Pea)

Allen, S. L. & Co. ("Planet, Jr."), 1017 Market, Phila., Pa.
 Bateman Mfg. Co., Grenloch, N. J.
 Caledonia Bean Harvester Co. (Bean), Caledonia, N. Y.
 Deere & Mansur Co., Moline, Ill.
 Gale Mfg. Co. (Bean & Pea), Albion, Mich.
 Moline Plow Co. ("Boston"), Moline, Ill.
 Potato Implement Co. (Hand Bean), Traverse City, Mich.
 White, S. R. & Bro. (Pea), Norfolk, Va.
 Wiard Plow Co. (Bean), Batavia, N. Y.

Planters (Beet)

Allen, S. L. & Co., 1017 Market, Phila., Pa.
 Bateman Mfg. Co., Grenloch, N. J.
 Gale Mfg. Co., Albion, Mich.
 Morrison Mfg. Co., Fort Madison, Ia.
 Vine & Root Machinery Co., Port Huron, Mich.

Planters (Corn)

American Seeding Machine Co. Main Office, Springfield, O.
 Ames Plow Co. (One Horse, One Row, etc.), Quincy Hall, Boston, Mass.
 Avery, B. F. & Sons, Louisville, Ky.
 Avery Co. ("Perfection," "Corn King," "Corn Queen" Steel), Peoria, Ill.
 Ayers, J. R., Petersburg, Va.
 Bailey & Nichols Co., Delevan, Ill.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Bement's, E. Sons, Lansing, Mich.
 Blackstone Mfg. Co., Jamestown, N. Y.
 Bradley, David, Mfg. Co. (Force Drop), Bradley, Brooks & Stuckwisch, Indianapolis, Ind. Ill.
 Brown, Geo. W. & Co., Galesburg, Ill.
 Brown, Hinman & Huntington Co. (Hand), 198 N Scioto, Columbus, O.
 Buffton Mfg. Co., Buffton, Ind.
 Caldwell & Drake Iron Works (Inc.), Columbus, Ind.
 Campbell Corn Drill Co., Harrison, O.
 Cardwell Machine Co., Richmond, Va.
 Case, J. I. Plow Works, Racine, Wis.
 Chambers, Bering & Quinlan Co., Decatur, Ill.
 Collins Plow Co., Quincy, Ill.
 Colton, G. D. & Co., Galesburg, Ill.
 Cooper, A. A. Wagon & Buggy Co., Dubuque, Ia.
 Deere & Mansur Co., Moline, Ill.
 Denscher, H. P. Co., Hamilton, O.
 Donaldson Bros. ("King"), Mount Clemens, Mich.
 Emerson Mfg. Co., Rockford, Ill.
 Eureka Mower Co. (One & Two Row), Utica, N. Y.
 Evans, A. C. Mfg. Co., Springfield, O.

Farquhar, A. B. Co. (Also With Fertilizer Attachment), York, Pa.
 Foos Mfg. Co., Springfield, O.
 Fort Madison Plow Co., Fort Madison, Iowa
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. (One & Two Horse Planter & Fertilizers, also Ridling, also With Disc), Albion, Mich.
 Grand Detour Plow Co., Dixon, Ill.
 Hayes Pump & Planter Co. (Riding & Walking), Galva, Ill.

Hench & Dromgold Co. (Inc.), York, Pa.
 Hoosier Drill Co., Richmond, Ind.
 Janesville Machine Co., Janesville, Wis.
 Implement Mfg. Co., Davenport, Ia.
 Keystone Farm Machine Co., York, Pa.
 Klingman Plow Co., Peoria, Ill.
 Klingman & Co., Peoria, Ill.
 Lehr Agricultural Co., Fremont, O.
 Lovejoy Co., Cambridge, N. Y.
 Luthy & Co., Peoria, Ill.
 McSherry Mfg. Co., Middletown, O.
 Marietta Mfg. Co., Marietta, O.
 Messinger Mfg. Co., Tatamy, Pa.
 Moline Plow Co. (Single & Double & Three Row), Moline, Ill.
 Mountville Mfg. Co., Mountville, Pa.
 Mulford Heater Co., Galva, Ill.
 Ohio Cultivator Co., Bellevue, O.
 Ohio Rake Co., Dayton, O.
 Parlin & Orendorff Co., Canton, Ill.
 Peoria Scoop Board & Implement Co., Peoria, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Peters Pump Co. ("Kewanee"), Kewanee, Ill.
 Porter, J. E. Co. (All Steel), Ottawa, Ill.
 Quincy Corn Planter Co. ("Barlow" & "Vander-Barlow"; Also Fertilizer Attachment), Racine-Sattley Co., Springfield, Ill. Quincy, Ill.
 Rhea-Thielens Implement Co., Peoria, Ill.
 Rock Island Plow Co. (Double & Single Row), Rock Island, Ill.
 Root, B. M. Co. (Single & Double Row), York, Pa.
 Sechler, D. M. Carriage Co. ("Black Hawk"), Moline, Ill.
 Sellers, Edw., Oakhall Station, Pa.
 Sheffield Mfg. Co.
 Southern Foundry & Machine Works, Frederickburg, Pa.
 Spangler Mfg. Co., York, Pa.
 Sterling Mfg. Co., Sterling, Ill.
 Tait, F. B. Mfg. Co., Decatur, Ill.
 Thompson, J. & Sons' Mfg. Co., Beloit, Wis.
 Union Corn Planter Co., Peoria, Ill.
 Wayne Works, Richmond, Ind.
 White, S. R. & Bro., Norfolk, Va.
 Whitehurst, R. W. Co., Norfolk, Va.
 Williams Mfg. Co., Decatur, Ill.
 Wistrand Mfg. Co. ("Blue Star"), Galva, Ill.

Planters (Corn, Hand)

Babcock Planter Co., Adrian, Mich.
 Donaldson Bros. ("King"), Mount Clemens, Mich.
 Eagle Machine Co., Lancaster, O.
 Emerson Mfg. Co., Rockford, Ill.
 Eureka Fence Co., Richmond, Ind.
 Harrison Mfg. Co., Sterling, Ill.
 Horton Mfg. Co., Fort Wayne, Ind.
 Hughes & Smythe, Galena, O.
 Kent, A. O., Janesville, Wis.
 Kingman & Co., Peoria, Ill.
 Kohler, F. E., & Co. ("Eclipse" Rotary), Canton, O.
 Nagley Mfg. Co. (Corn & Pumpkin), Lyons, N. Y.
 Nash, Duane H., Millington, N. J.
 Potato Implement Co., Traverse City, Mich.
 Sheffield Mfg. Co., Burr Oak, Mich.
 Vandergriff Mfg. Co., Jamestown, N. Y.
 Wabers, H. H. Mfg. Co., Racine, Wis.
 Wiard Plow Co., Batavia, N. Y.
 Winship Mfg. Co., Racine, Wis.

Planters (Cotton)

Atlanta Agricultural Works ("Brooks," "Dow Law"), Atlanta, Ga.
 Avery, B. F. & Sons, Louisville, Ky.
 Avery Co. (Steel), Peoria, Ill.
 Bradley, David, Mfg. Co., Bradley, Ill.
 Brown, Hinman & Huntington, Columbus, O.
 Cole Mfg. Co., Charlotte, N. C.
 Deere & Mansur Co., Moline, Ill.
 Eagle Mfg. Co. (Cotton & Corn), Kansas City, Mo.
 Emerson Mfg. Co. (Combined Cotton & Corn), Rockford, Ill.
 Evans, A. C. Mfg. Co., Springfield, O.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Fort Madison Plow Co., Fort Madison, Iowa
 Gale Mfg. Co. (Daisy, One & Two Row, Ridling), Galva, Ill.
 Gantt Mfg. Co., Macon, Ga.
 Keystone Farm Machinery Co., York, Pa.
 Lehr Agricultural Co., Fremont, O.

Moline Plow Co. (Single & Double Row), Moline, Ill.
Ohio Cultivator Co. ("Ohlo" Sulky, etc.), Bellevue, O.
Parlin & Orendorff Co. (Cotton & Corn), Canton, Ill.
Racine-Sattley Co. (Cotton & Corn), Springfield, Ill.
Rock Island Plow Co. (Double & Single Row), Rock Island, Ill.
Sandwich Mfg. Co., Sandwich, Ill.
Sechler, D. M. Carriage Co., Moline, Ill.
South Bend Chilled Plow Co. (Cotton & Corn), South Bend, Ind.
Southern Agricultural Works Co., Atlanta, Ga.
Southern Plow Co., Columbus, Ga.
Towers & Sullivan Mfg. Co. ("Dow Law"), Rome, Ga.
White, S. R. & Bro., Norfolk, Va.
Whitehurst, R. W. & Co., Norfolk, Va.

Planters (Peanut)

Ayers, J. R. ("Ayers," Single-Row-One-Horse), Petersburg, Va.
McWhorter Mfg. Co. ("McWhorter," Single-Row - Wheel - Hand & Two - Row - One-Horse), Riverton, N. J.
Whitehurst, R. W. Co. ("Excelsior," Single-Row-One-Horse), Norfolk, Va.

Planters (Potato)

American Harrow Co. ("American" Hand), Detroit, Mich.
American Seeding Machine Co. ("Evans," Single-Row; also with Fertilizer Attachment), Main Office, Springfield, O.
Aspinwall Mfg. Co. ("Aspinwall," Single Row; also with Bean & Pea Planter Attachment; also with Fertilizer Attachment), Jackson, Mich.
Bateman Mfg. Co. ("Robbins," "Iron Age" Single Row; also with Bean & Pea Planter Attachment; also Fertilizer Attachment), Grenlock, N. J.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Brown-Manly Plow Co. ("Malta"), Malta, O.
Burch Plow Co. ("New Burch," with Fertilizer Attachment; also Planter & Cutter Combined), Crestline, O.
Case, J. I. Plow Works ("Lone Star," with Fertilizer Attachment), Racine, Wis.
Chambers, Bering & Quinlan Co. (C. B. Q.), Decatur, Ill.
Champion Potato Machinery Co. ("O. K. Champion"; also with Fertilizer Attachment), Hammond, Ind.
Deere & Mansur Co., Moline, Ill.
Empire Plow Co. ("Empire"), Cleveland, O.
Eureka Mower Co. (One & Two Row; also with Fertilizer Attachment), Utica, N. Y.
Fetzer & Co. ("Columbia," "Plymouth"), Middleton, O.
Greenville Implement Co. (Hand), Greenville, Mich.
Hirsch Bros. ("Spalding," Single Row), Milwaukee, Wis.
Kent Mfg. Co. ("Triumph," Hand), Atkinson, Wis.
McWhorter Mfg. Co. ("McWhorter," Single Row; also with Fertilizer Attachment), Messinger Mfg. Co. (With Fertilizer Attachment), Tatamy, Pa.
Nebraska Mfg. Co. ("Kaar" Two-Row), Lincoln, Neb.
Peck, S. H. ("Perfection"), East Aurora, N. Y.
Potato Implement Co. ("Segment," "Eureka," "Acme," "Peerless," "Tubular," "Swan," "Pingree" & "Dewey" Hand), Traverse City, Mich.
Schofield & Co. ("Schofield" Single Row; also Planter & Digger Combined), Freeport, Ill.
Sears, Albert H. (Plano), Plano, Ill.
Sheffield Mfg. Co. ("Sheffield" Hand), Burr Oak, Mich.
Southern Plow Co. ("Haimans"), Columbus, Ga.
Spalding Mfg. Co. ("Spalding," Single Row), Milwaukee, Wis.
Springer Bros. Mfg. Co. (Two Row, Check or Drill), Edwardsville, Ill.
Steitz, J. R. ("Steitz" Single Row), Cudahy, Wis.
Steitz, J. R. Mfg. Co. ("Steitz" Single Row; also with Fertilizer Attachment), Milwaukee, Wis.
Towers & Sullivan Mfg. Co. ("Tower"), Rome, Ga.
Wabers, H. H. Mfg. Co. ("Invincible" Hand), Racine, Wis.
Whitehurst, R. W. & Co., Norfolk, Va.

Planters (Tobacco)

Bollman, Elmer, West Manchester, O.

Plants (Dismantled)

PEAFF & KENDALL, Ferry & Foundry, Newark, N. J. (See adv. index, end of book)

Plaster (Asbestic, Wall)

Johns, H. W.-Manville Co., 100 William, New York

Plaster Boards, Slabs, Etc.

A. B. Fireproofing Co., Schiller bldg, Chicago, Ill.
AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)
Barrett Mfg. Co. (Blue Plaster Boards), Land Title bldg., Phila., Pa.
BEAVER MFG. CO., THE ("Beaver"), 228 Perry st., Buffalo, N. Y. (See adv. index, end of book)

BEAVER BOARD
The Modern Wall & Ceiling Material
Takes Place of Both Lath and Plaster

Duffy, J. P. Co. ("Sackett" Wall Board), 440 E 138th, New York
Grand Rapids Plaster Co. (W. S. Hovey, Gen'l Agent), Grand Rapids, Mich.
Keystone Fireproofing Co. (Engineering Dept.), 16 S Broad, Phila., Pa. Works: Chester, Pa.
Klotz, A. E., Fireproofing Co., 137th & Madison av., New York
New Jersey Adamant Mfg. Co., Harrison, N. J.
Rader, A. C. & Co., 7 E 137th, New York
Sackett Wall Board Co., 17 Battery pl, New York
Union Roofing & Mfg. Co. ("Pyramid" Blue), St. Paul, Minn.
Wotherspoon Plaster Mills (Inc.), 1170 B'way, New York

Plaster Mfrs. (Asbestos)

Cleveland Asbestos Plaster Co. (Wall), Cleveland, O.
RUTLAND FIRE CLAY CO. (Flexible), Rutland, Vt. (See adv. index & branch offices, end of book)

Plaster Mfrs. (Calcined)

Acme Cement Plaster Co., Century bldg, St. Louis, Mo.
Alabastine Co. (also Land Plaster), Grand Rapids, Mich.
American Cement Plaster Co., Lawrence, Kan., & Quanah, Tex.
American Gypsum Co., Cleveland, O.
Bangs-Gaynor Cement & Plaster Co. (Land Plaster), Fayetteville, N. Y.
Brockett, C. A. Cement Co., 121 W 8th, Kansas City, Mo.
Conn. Adamant Plaster Co., 10 River st., New Haven, Conn.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)
Gilmore, S., Indian Falls, N. Y.
Grand Rapids Plaster Co. (W. S. Hovey, General Agent) (also Land), Grand Rapids, Mich.
Gypsum Products Mfg. Co., Grand Rapids, Mich.
Hammill & Gillespie, 240 Front, New York
Higginson Mfg. Co., Newburgh, N. Y.
Hot Springs Plaster Co., Hot Springs, S. Dak.
Independence Gypsum Co., Southard, Okla.
Keystone Plaster Co. (Sales Office), 16 S Broad, Phila., Pa. Works: Chester, Pa.
King, J. B. & Co., 1 B'way, New York
King, C. Volney, 517 West, New York
Lycoming Calcining Co., Williamsport, Pa., & Garbutt, N. J.
Miller, Clifford L. & Co. (White), 110 E 23d, New York
Newark Lime & Cement Co., ft. of Bridge st., Newark, N. J.
Niagara Gypsum Co., Buffalo, N. Y.
Portland Cement Co., Denver, Colo.

Rock Plaster Co., of N. Y. & N. J., 150th & E. R., New York
United States Gypsum Co., 200 Monroe, Chicago, Ill., & Cleveland, O.
Wotherspoon Plaster Mills, 1170 B'way, New York

Plaster Mfrs. (Fibrous & Staff)

Eclipse Wood Fiber Co., Buffalo, N. Y.
Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.
Harnisch, Ad A., Spencer n Chlorine Springs, Syracuse, N. Y.
SEIFERT, FRANK A. PLASTIC Relief Co., 2621-2627 Dayton, St. Louis, Mo. (See adv. index, end of book)
Sleep, Elliott & King Co. (Inc.), 562 W 23d, New York, & 351 Cambridge, Boston, Mass.

Plaster Mfrs. (Wall)

(See also Stucco Manufacturers)

CONNECTICUT.

BRIDGEPORT—Connecticut Flexible Plaster Co. (Flexible Fiber Wall Plaster)
HARTFORD—Hartford Pulp Plaster Corporation, 73 Walnut (Elastic Pulp)
NEW HAVEN—Connecticut Adamant Plaster Co.

COLORADO.

DENVER—Portland Cement Co. ("Ideal")

GEORGIA.

ATLANTA—Georgia Wood Fibre Plaster Co.

ILLINOIS.

CHICAGO—RUTLAND FIRE CLAY CO. (Flexible Asbestos), 223 W 12th. (See adv. index, end of book)
United States Gypsum Co., 200 Monroe
ROCKFORD—Rockford Wall Plaster Co.

INDIANA.

INDIANAPOLIS—Keeport, A. B. & Co., 312 W North
NEW ALBANY—New Albany Wall Plaster Co. ("Star" & Wood Fibre)

IOWA.

CEDAR RAPIDS—King's Crown Plaster Co.
FORT DODGE—Cardiff Gypsum Plaster Co. Iowa Hard Plaster Co. ("Kalloite")
Plymouth Gypsum Co. ("Plymouth" Cement & Wood Fibre)
WATERLOO—Waterloo Plaster Co.

KANSAS.

BLUE RAPIDS—Electric Plaster Co.
LAWRENCE—American Cement Plaster Co.

KENTUCKY.

LOUISVILLE—Atlas Wall Plaster Co.
Kentucky Wall Plaster Co.

MAINE.

RED BEACH—Red Beach Plaster Co.

MARYLAND.

BALTIMORE—Maryland Lime & Cement Co. (Hard), Carroll bldg
NORTH EAST—Columbia Brick & Plaster Co. ("Columbia")

MASSACHUSETTS.

BOSTON—New England Adamant Co., 325 Medford, Chsn.
RUTLAND FIRE CLAY CO. (Flexible Asbestos). (See adv. index, end of book)

MICHIGAN.

DETROIT—Little, C. H. Co., 40 Fort W
GRAND RAPIDS—Alabastine Co. (Plastic Hard Wall)
Grand Rapids Plaster Co. (W. S. Hovey, General Agent)
Gypsum Products Mfg. Co. (also Wood Fibre)

MINNESOTA.

MANKATO—Fowler & Pall ("Jasper")

MISSOURI.

KANSAS CITY—Monarch Plaster Co., Mills: Watonga, Okla.
Monarch Plaster Co., Mills Watonga, Okla.
ST. LOUIS—Acme Cement Plaster Co., 906 Olive
Hunkins-Wills Lime & Cement Co., 18th & Austln

NEW JERSEY.

HARRISON—New Jersey Adamant Mfg. Co.
NEWARK—Newark Lime & Cement Mfg. Co.
TRENTON—New Jersey Elastic Pulp Plaster Co. ("Pulp")

NEW YORK.

BUFFALO—Buffalo Paragon Wall Plaster Co., Eclipse Wood Fibre Co., 285 Grote
Niagara Gypsum Co. ("Niagara" Brand), 597 Michigan
Oakfield Plaster Mfg. Co.
Reeb, M. A., 599 Michigan
FAYETTEVILLE—Bangs-Gaynor Cement Sheedy, Thos. W. Plaster Co.
FULTON—Porter & Co.
GARbutt—Diamond Wall Cement Co. Empire Gypsum Co. (Wall Plaster Sanded & Wood Fibre Plaster)
Garbutt Gypsum Co. (of Rochester, N. Y.)
Lycoming Calcining Co.
NEWBURGH—Higginson Mfg. Co.

NEW YORK CITY.**Boroughs of Manhattan & Bronx.**

NEW YORK—King, J. B. & Co., 1 B'way
Miller, Clifford L., & Co. ("Miller's"), 110 E. 23d
N. Y. Pulp Plaster Co. (Pulp), 110 E. 23d
Rock Plaster Co., of N. Y. & N. J., 150th & E. R.
Wotherspoon Plaster Mills, 1170 B'way

Borough of Richmond.

NEW BRIGHTON—King, J. B. & Co.
(End of New York City)
ROCHESTER—Garbutt Gypsum Co.
SYRACUSE—Paragon Plaster Co.
UTICA—American Hard Wall Plaster Co.

OHIO.

CANTON—Seeman Plaster Co.
CLEVELAND—American Gypsum Co. ("Anchor" Cement & "Anchor" Wood Fibre)
Forrester Plaster Co., ft. of E. 49th, N. E.
Kelly Island Lime & Transport Co. (Hard), Rockefeller bldg.
United States Gypsum Co.
COLUMBUS—Ohio Wood Fibre Plaster Co.
Rock Plaster Mfg. Co., Broad & H. V. Ry.
DAYTON—Dayton Fibre Plaster Co. (Fibre)
EAST LIVERPOOL—Old Roman Wall Plaster Co.
ELYRIA—Elyria Plaster Co. (Wood)
LIMA—Walther, Philip
NAPOLEON—Napoleon Pulp Plaster Co.
PORT CLINTON—Consumers' Gypsum Co.
SHELBY—Morris, W. H.
TOLEDO—Flshack Plaster Co.
Toledo Pulp Plaster Co. (Pulp)
Woodville White Lime Co.
YOUNGSTOWN—Sharp Bros.

OKLAHOMA.

ALVA—Oklahoma Plaster Co.
OKARCHIE—U. S. Gypsum Co. (of Chicago)
SOUTHARD—Independence Gypsum Co.

OREGON.

PORTLAND—Adamant Co. (Hard)

PENNSYLVANIA.

BRADDOCK—Crown Wall Plaster Co.
CHESTER—Keystone Plaster Co. (See Phila., Pa.)
LEBANON—Granitine Wall Plaster Co.
NEW CASTLE—Gailey Fibre Plaster Co.
New Castle Elastic Pulp & Plaster Co. (Pulp)
NEW KENSINGTON—New Kensington Fibre Plaster Co. (Fibre)
PHILADELPHIA—FRENCH, SAM'L H. & Co., 4th & Callowhill. (See adv. index, end of book)
Keystone Plaster Co. (Adamant & "Victor"), 16 S Broad. Works: Chester, Pa.
ROCK PLASTER (SAM'L H. French & Co., Agents), 4th & Callowhill
PITTSBURG—National Mortar & Supply Co., McCance bldg.
SCRANTON—Paragon Plaster & Supply Co.
WILLIAMSPORT—Diamond Wall Cement Co. Lycoming Calcining Co.

UTAH.

SALT LAKE CITY—Utah Consolidated Plaster Co.

VERMONT.

BELLOWS FALLS—Bellows Falls Pulp Plaster Co. (Pulp)
RUTLAND—RUTLAND FIRE CLAY CO. (Flexible Asbestos). (See adv. index, end of book)

VIRGINIA.

NORTH HOLSTON—Southern Gypsum Co. ("Hard Wall")
RICHMOND—Moore, Warner & Co.

WEST VIRGINIA.

FAIRMOUNT—Fairmount Wall Plaster Co.
WHEELING—Wheeling Wall Plaster Co.

WYOMING.

LARAMIE—Acme Cement Plaster Co. (See St. Louis, Mo.)
Overland Cement Plaster Co.

Plaster of Paris Mfrs.

(See Plaster Manufacturers, Calcined)

Plaster Packers

(See Cement Packers)

Plaster Products for Paper Trade

Keystone Plaster Co., Chester, Pa.

***Plaster & Lath Substitute**

BEAVER MFG. CO., THE, 228 Perry st., Buffalo, N. Y. (See adv. index, end of book)

BEAVER BOARD
The Modern Wall & Ceiling Material
Takes Place of Both Lath and Plaster

Plasterers' Steel Corner Beads

BOSTWICK STEEL LATH CO. ("The Bostwick" Hot, Galvanized), Niles, O. (See adv. index, end of book)
FULLER BROS. & CO. (Eastern Agents for "Parker" Corner Beads), 139 Greenwich, New York
Gara, McGinley & Co. (Woods), 23 S 17th, Phila., Pa.
GENERAL FIREPROOFING CO. ("Universal" & "National"), Youngstown, O., & 10 E 33d, New York. (See adv. index & branch offices, end of book)
HUNT METAL CORNER CO. (For Projecting, Angular or Interval Corners), Westboro, Mass. (See adv. page 853)
MERRITT & CO., 94 Arch, Camden, N. J. (See adv. index, end of book)
Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
Prescott, J. B., & Son ("Prescott"), Webster, Mass.
Rogers-Shear Co. ("Universal"), Warren, Pa.
St. Paul Roofing, Cornice & Ornament Co. ("Pruden"), St. Paul, Minn.
SHARON STEEL HOOP CO. ("Parker"), Sharon, Pa., & Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
UNION METAL CORNER CO. ("Hannon," "Goodwin" & "Union"), 206 Summer, Boston, Mass. (See adv. page 853)

Plastering Fibre

American Fibre Co., Jacksonville, Fla.
Fernald Co. ("Giant"), 248 Tehama, San Francisco, Cal.
Hoffman-Corr Mfg. Co., 55 White, New York
Whiting, E. B. & A. C., Burlington, Vt.

Plastering Hair

Armour Curled Hair Works, 205 La Salle, Chicago, Ill.
Baeder, Adamson & Co., 210 Chestnut, Phila., Pa.
Beckta, Chas. F., Wilmington, Del.
FRENCH, SAM'L H. & CO., 4th & Callowhill, Phila., Pa. (See adv. index, end of book)
Hoffman-Corr Mfg. Co., 55 White, New York
Illinois Leather Co., 400 N Halstead, Chicago.
Whiting, E. B. & A. C., Burlington, Vt. Ill.

Plate (Aluminum)

Aluminum Co. of America, Pittsburgh, Pa., & 99 John, New York

FIRE PROOF**WATER PROOF****FROST PROOF****Rutland Flexible Asbestos Wall Plaster**

MADE FROM FIRE CLAY, PORTLAND CEMENT AND ASBESTOS FIBRE.

Samples Furnished FREE For Test Purposes

GROUND MARBLE, FIRE CLAY, SOAP STONE, MICA SCHIST, ETC.

RUTLAND FIRE CLAY CO.

RUTLAND, VT., U. S. A.



PARKER CORNER-BEAD

FOR THE PROTECTION OF PLASTERED CORNERS

A corner of steel, costing less than the ordinary plastered corner.

WHY?

BECAUSE it builds the corner for the plasterer as straight as a plumb-line, and puts straight edges and plumb-lines out of business.

THE "PARKER" CORNER lasts the life of a building, and saves in repairs many times its cost. It takes the place of wood-trim when used around windows, and makes a fire-proof, sanitary, artistic corner, at trifling expense. It is the only corner protector that holds the plaster in a grip that won't let go.

THE "PARKER" is hot-galvanized, warranted not to rust; is easily erected and costs less than others that do not protect.

FREIGHT CHARGES trifling, as a thousand feet, with attachments, weigh two hundred pounds only.

STOCK LENGTHS—six, seven, eight, nine and ten feet, — fifty strips in a bundle,—securely tied to stand transportation.

IT IS the bead that has and holds the market; no other bead has a chance when compared with the "PARKER."

WHY?

BECAUSE other beads on the market are punched beads.

STRIKE any corner-bead that has side punchings for the alleged keying of plaster a moderate blow on its face and you break the bonds as far as vibration extends, leaving loose, crumbling plaster along the blade of plate which will grind from vibration of building, and sooner or later work itself to the surface. The larger the punchings the greater the danger and damage to the plastered corner. The "PARKER" is the only bead that will hold plaster on its blade without punching. The plaster on this bead is keyed in between the flange and the extending lip with a grip that will stand any blow the face of bead would be likely to receive.

WHEN SELECTING A BEAD REMEMBER THIS

ARCHITECTS, OWNERS, CONTRACTORS, DEALERS, — are you interested? If so, investigate and send for prices that will convert you.

Sharon Steel Hoop Company

Chicago Office : Commercial National Bank Bldg.

EASTERN OFFICE

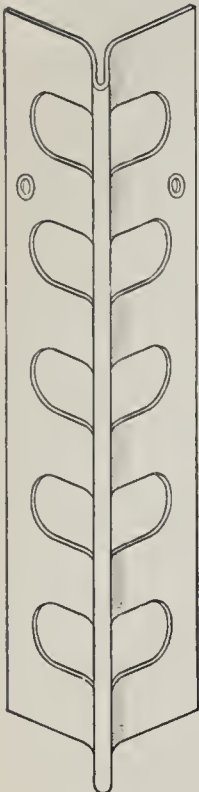
FULLER BROTHERS & COMPANY

139 Greenwich St., New York City

METAL CORNER BEADS

HOT GALVANIZED TWICE

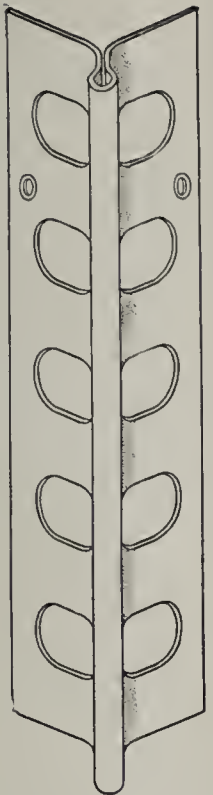
BRIGHT AND USEFUL AS A NEW COINED SILVER DOLLAR



UNION BEAD



GOODWIN BEAD. CLIPS ADJUSTED BEFORE SHIPPING.
THIS IS ONLY ONE FEATURE OF GOODWIN BEAD.



HANNON BEAD

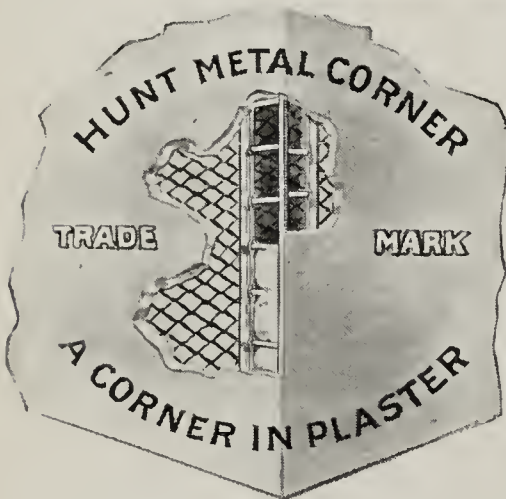
PROVEN THE BEST BY ANY TEST

IMPORTANT NOTICE TO ARCHITECTS—"OUTERSITE" METAL PICTURE MOULDING HAS BEEN USED IN OVER TWENTY SCHOOL HOUSES IN ST. LOUIS. AN ENTIRELY NEW AND PRACTICAL IDEA. INVISIBLE, FIRE, RUST, AND GERM-PROOF. FOR A METAL MOULDING, SPECIFY HANNON ORNAMENTAL PICTURE MOULDING, WHICH USED IN CONNECTION WITH "OUTERSITE" IS A WINNER.

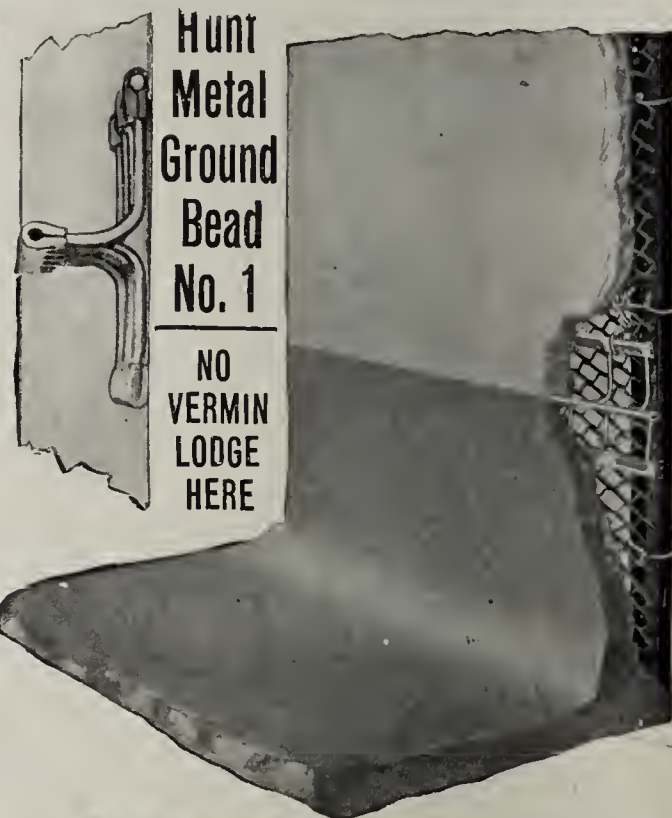
UNION METAL CORNER CO., Mfrs.

206 Summer Street
BOSTON, MASS.

M. A. HANNON, PRESIDENT AND TREASURER



See that Bond
AND
Protect Your
Corners and Plaster
BY USING
Hunt Metal Corner Bead,
GROUND,
PICTURE MOULDING,
WAINSCOT and INTERNAL
CORNER OR ANGLE
BEAD.



Hunt
Metal
Ground
Bead
No. 1

NO
VERMIN
LODGE
HERE

Made of Steel, Hot Galvanized, in lengths from 6 to 16 inch. Also

Wall Plugs and Ties.

Endorsed by Leading Architects.

We make the best Warehouse Truck for Barrels, Boxes and Crates; of Steel and Roller Bearings; roll in any direction.

STEEL BANDING and CORNER TIES for Boxes and Crates.

Hunt Metal Corner Co.

Agents wanted in every city in United States and Canada.

Factory: WESTBORO, MASS.

Sales Office: 559 Atlantic Avenue, BOSTON, MASS.

HUNT COMBINATION WALL PLUG AND TIE.

Open end of Tie springs into end of Plug. Never Slips. Plug or Tie may be used separately.



Plate (Armor)

Bethlehem Steel Co. (Forged, etc.), South Bethlehem, Pa.
Carnegie Steel Co., Carnegie bldg., Pittsburgh, Pa.
Midvale Steel Co. (Forged), Nicetown, Phila., Pa.

Plate (Platinum)

(See Platinum, Sheet & Wire)

Plate (Shovel)

(See Steel Shovel Plate)

Plate (Steel Boiler)

(See Iron & Steel Boiler & Tank Plate)

Plate (Steel Bridge)

(See Steel Bridge Plate)

Plate (Steel Fire Box)

(See Steel Fire Box Plate)

Plate (Steel Fish)

(See Rail Braces & Fastenings)

Plate (Tack)

(See Steel Tack Plate)

***Plateaux (Table)**

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Platers' & Polishers' Supplies

Auburn Soap & Chemical Co. ("Tripoli," Vienna Lime, Emery Paste, Quicklime, Lye, Rouge, "Crown," White Polish), Auburn, N. Y.
Bennett & O'Connell Co., 101 S. Clinton, Chicago, Ill.
Burns, E. Reed, 40 Withers, Brooklyn, N. Y.
Cobb, Arthur, 96 High, Boston, Mass.
Cutter, Wood & Stevens Co., 68 Pearl, Boston, Mass.

Gold, Walter C., 235 Race, Philadelphia, Pa.
Foot Mfg. Co. (Polishing Felts, Buffs, Brushes, etc.), Jersey City, N. J.
Hansen & Van Winkle Co., Newark, N. J., & 30 W. Canal, Chicago, Ill.
Harshaw, Fuller & Goodwin Co. (Chemicals), Electric bldg., Cleveland, O.
Levett Mfg. Co., Matawan, N. J.
L'Hommedieu, Chas. F. & Sons Co., 99 S. Canal, Chicago, Ill.

Sommer's, John Sons (Drying Materials), Newark, N. J.
Stevens, F. B., 3d av. & Larned, Detroit, Mich.

SUPERIOR CORUNDUM WHEEL CO., Waltham, Mass. (See adv. index, end of book)

Union Wheel & Mfg. Co., Cossackie, N. Y.
Zucker & Leavett & Loeb Co., 516 W. 25th, New York

Plates (Bosh)

Best Mfg. Co. (Furnace), Pittsburgh, Pa.
Keystone Bronze Co., Pittsburgh, Pa.
LAWRENCEVILLE BRONZE CO., 31st & Penn av., Pittsburgh, Pa. (See adv. index, end of book)

Plates (Box Printing)

Houchin, Aiken Co., 37 53d, Brooklyn, N. Y.

Plates (Buckle)

Edge Moor Iron Co. (For Bridges, Buildings, etc.), Wilmington, Del.
Glasgow Iron Co., Pottstown, Pa.

Plates (Bumper)

Ireland & Matthews Mfg. Co. (For Plumbers Wood Work), Detroit, Mich.

Plates (Center)

Dayton Malleable Iron Co. (Lubricating), Dayton, O.
Pressed Steel Car Co., Pittsburgh, Pa.
Transne & Williams Co., Alliance, O.

Plates (Chrome Steel)

Chrome Steel Works (Also Welded), Chrome, N. J.

Plates (Core)

Crescent Machine Co., Detroit, Mich.
Diamond Clamp & Flask Co. (Asbestos), Richmond, Ind.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Plates (Crusher)

Philadelphia Roll & Machine Co., S 23d & Washington av., Phila., Pa.

Plates (End)

Adams, E. B., & Son ("Adams" for Wagon Makers), Racine, Wis.

Plates (End Gate)

Griffin Mfg. Co., Erie, Pa.

Plates (Expansion)

Grabler Mfg. Co. (Steel), Cleveland, O.
National Tube Co., Pittsburgh, Pa.

Plates (Felloe)

Avery Stamping Co. (Steel), Cleveland, O.
Sessions, J. H., Son, Bristol, Conn.
Upson Nut Co., Unionville, Conn.
Wrought Washer Mfg. Co., Milwaukee, Wis.

Plates (Filter Press)

Aitchison Perforating Co., 303 Dearborn, Chicago, Ill.
Albright-Nell Co., Chicago, Ill.
Currier, Cyrus & Sons, Newark, N. J.
Mundt, Chas. & Sons, 441 Pearl, New York
Shriver, T. & Co., Harrison, N. J.

Plates (Floor, Iron & Steel)

American Steel Co. (Wrought Steel, Ribbed Diamond & Checkered Patterns), Pittsburgh, Pa.
Booth, J. B. & Co., Pittsburgh, Pa.
Bartholomew, H. (Pressed Steel, Ribbed & Diamond Pattern), Phoenixville, Pa.
Carnegie Steel Co. (Steel), Carnegie bldg., Pittsburgh, Pa.
Co-Operative Foundry Co. (Cast Iron for Mill Construction), Detroit, Mich.
Dilworth, Porter & Co., Pittsburgh, Pa.
Froment & Co., 151 Bank, New York
Keystone Steel Co. ("Kesco" Open Hearth Wrought Steel, Diamond, Ribbed & Checkered Pattern), Warren, Pa.
Ogden & Wallace (Never Slip Wrought Steel), 577 Greenwich, New York
Sligo Iron & Steel Co. (Wrought Steel, Diamond Ribbed & Checkered Pattern), Pittsburgh, Pa.
Townsend Furnace & Machine Shop Co. (Cast Iron), Albany, N. Y.
Waterbury Foundry Co., Waterbury, Conn.
Wood, Alan Iron & Steel Co. (Diamond & Ribbed Rolled Steel), 519 Arch, Phila., Pa.

Plates (Floor & Ceiling)

Adams Co. (For Stove Pipe Register), Dubuque, Ia.
Beaton & Corbin Mfg. Co., Southington, Conn.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bishop & Giddings, Southington, Conn.
Boebel, Wm. & Co., 518 Vine, Phila., Pa.
Buckley-Hart Mfg. Co., Detroit, Mich.
Cheney, S. & Son, Manlius, N. Y.
Clark, Robt., 38 Schermerhorn, Brooklyn, N. Y.
Climax Specialty Co., Seneca Falls, N. Y.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crescent Brass & Iron Co., Detroit, Mich.
Crescent Mfg. Co., Bristol, Conn.
Davis, John Co., 75 Michigan, Chicago, Ill.
Devlin, Thos. & Co., 3d & Lehigh av., Phila., Pa.
Eureka Heating & Ventilating Co. (C. W. Light, Prop.), (Cast), Saginaw, Mich.
Exeter Brass Works, Exeter, N. H.
Flagg, Stanley G. & Co., 19th & Penn av., Phila., Pa.

Fort Pitt Malleable & Grey Iron Co., Pittsburgh, Pa.

General Fire Extinguisher Co., Providence, R. I.
Glenn Mfg. Co., St. Charles, Ill.
Grabler Mfg. Co. (Cold Rolled Steel, Brass, Cast Iron, etc.), Cleveland, O.
Grundy Brass Works 50 Sudbury, Boston, Mass.

Haydenville Co., Haydenville, Mass., & 150 Nassau, New York

Hoffman, B. Mfg. Co., Milwaukee, Wis.
Hoffman & Billings Mfg. Co., Milwaukee, Wis.
Houghton Mfg. Co., Worcester, Mass.
Illinois Malleable Iron Co., 30 West Monroe, Ireland & Matthews Mfg. Co. (Spun Brass), Detroit, Mich.

Jarecki Mfg. Co., Erie, Pa., & Pittsburgh, Pa.
Kelly & Jones Mfg. Co., Pittsburgh, Pa.

Kupferle, John C., St. Louis, Mo.
McNab & Harlin Mfg. Co., 56 John, New York

Matthews Mfg. Co., Worcester, Mass.
Miller Foundry & Specialty Co. ("Cling Fast" Ceiling Plates), Tonawanda, N. Y.

Nason Mfg. Co., 71 Beekman, New York
National Tube Co. (Floor, Ring & Wall), Pittsburgh, Pa.

Nelson, N. O. Mfg. Co. ("Vosberg" Thimble), St. Louis, Mo.

Newbury, Jay H., Goshen, N. Y.
Newbury Mfg. Co., Monroe, N. Y.

Ohio Pump & Brass Co. (Floor), 18th & Oak, Columbus, O.

Powhatan Brass & Iron Works, Charlestown, W. Va.

Rundle-Spence Mfg. Co., Milwaukee, Wis.
Smith & Thayer Co., 236 Congress, Boston, Mass.

Snyder, L. H. & Co., Bristol, Conn.
Stearns, E. C. & Co. (Ceiling), Syracuse, N. Y.

Steele & Johnson Mfg. Co., Waterbury, Conn.
Victor Excelsior Brass Works, 128 White, New York

Walworth Mfg. Co., 132 Federal, Boston, Mass.
Waterbury Mfg. Co., Waterbury, Conn.
West Cossackie Foundry, W. Cossackie, N. Y.
Wolverine Brass Works, Grand Rapids, Mich.

Plates (Hinge, Corner & Center)

Yale & Towne Mfg. Co., 9 Murray, New York

Plates (Index)

Brown & Sharpe Mfg. Co., Providence, R. I.

Plates (Joint)

Colorado Fuel & Iron Co., Denver, Col.
Reading Iron Co., Reading, Pa.

Plates (Kick & Push Door)

BOMMER SPRING HINGES

257 to 271 Classon av., Brooklyn, N. Y.
(See adv. index, end of book)
Champion Safety Lock Co., Geneva, O.

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)

Chicago Hardware Co., North Chicago, Ill.
Chicago Spring Butt Co., 491 Carroll av., Chicago, Ill.

CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

Corbin, P. & F., New Britain, Conn.
Hecia Iron Works, 118 N 11th, Brooklyn, N. Y.

JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)

Janusch Mfg. Co. (Brass or Bronze), 496 E. 134th, New York

MEYERS, FRED. J. MFG. CO., Ham- ilton, O. (See adv. index, end of book)

Murdock-Shaw Co., Boston, Mass.

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Penn Hardware Co., Reading, Pa.
Pittsburg Brass Mfg. Co. (Brass), Pittsburgh, Pa.

Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 98 Lafayette, New York

Shelby Spring Hinge Co. (Steel, Solid Bronze & Brass), Shelby, O.

SMITH, F. P. WIRE & IRON WORKS 100 Lake, Chicago, Ill. (See adv. index, end of book)

Stover Mfg. Co., Freeport, Ill.
Turner Brass Works, Sycamore, Ill.

Western Brass Mfg. Works (Brass or Bronze), 21st & Rockwell, Chicago, Ill.

Yale & Towne Mfg. Co., 9 Murray, New York

Plates (Letter Drop)

Yale & Towne Mfg. Co., 9 Murray, New York
Russell & Erwin Mfg. Co., New Britain,
Conn., & 96 Lafayette, New York

Plates (Mending)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
STANLEY WORKS (Wrought Steel).
New Britain, Conn. (See adv. index &
branch offices, end of book)
Wilcox Mfg. Co., Aurora, Ill.

***Plates (Numbering & Lettering)**

NIAGARA FALLS METAL STAMPING
Works, Niagara Falls, N. Y. (See adv.
index, end of book)

Plates (Pew)

Everett, A. & Son, Auburn, N. Y.
Hanson, C. H., 44 Clark, Chicago, Ill.
Peerless Stamp & Stencil Co., Muncie, Ind.

Plates (Piano)

Davenport & Treacy Co., Stamford, Conn.
Fairbanks Co., Springfield, O.
Kelly, O. S. Co., Springfield, O.
Shriver, T. & Co., Harrison, N. J.

Plates (Porcelain Push, Pull, Number, Etc.)

Union Porcelain Works, 300 Eckford, Brooklyn, N. Y.

***Plates (Press)**

DELAWARE HARD FIBRE CO. (Hard Fibre for Powder Mills, etc.), Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)

***Plates (Pressed Steel)**

PRESSED STEEL TANK CO. (Flanged, Deep Stamped, Forged or Drawn to Shape), Milwaukee, Wis. (See adv. index, end of book)

Plates (Pressed Steel Spring)

Davis Solid Truss Brake Beam Co. (Pressed Steel), Wilmington, Del.

Plates (Rail Joint)

Lackawanna Steel Co. ("Abbott"), Buffalo, N. Y.

Plates (Rapping)

(For Foundry Use)

Benskin Mfg. Co., Canton, O.
Hawker, W. S., Mfg. Co., Dayton, O.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Kelly, Thos. P. & Co. ("Fraser"), 544 W 22d, New York
Oliver Machinery Co., Grand Rapids, Mich.
Shanafelt Mfg. Co., Canton, O.
SMITH, J. D. FOUNDRY SUPPLY CO. ("Acme"), 40 S Water, Cleveland, O. (See adv. index, end of book)

Plates (Screen)

Annadale Screen Plate Co., Paterson, N. J.
Appleton Screen Plate Co., Appleton, Wis.
Bay State Tap & Die Co., Mansfield, Mass.
Bellows Falls Screen Plate Co., Bellows Falls, Vt.
Eastwood Wire Mfg. Co. (Rolled Brass & Perfection Bronze), Belleville, N. J.
Fox River Screen Plate Co., Appleton, Wis.
Hardy, Wm. A. & Sons Co. ("Hardy & Pinder"), Fitchburg, Mass.
Johnston & Chapman Co., 1333 Carroll av, Chicago, Ill.
Judson & Williams, Holyoke, Mass.
Rice-Barton & Fales, Mach. & Iron Co. ("Smith"), Worcester, Mass.
Union Screen Plate Co., Fitchburg, Mass.

Plates (Sheared)

Carbon Steel Co. (Open-Hearth Steel), Pittsburgh, Pa.
Carnegie Steel Co. (Steel), Pittsburgh, Pa.
Central Iron & Steel Co., Harrisburg, Pa.
Glasgow Iron Co., Pottstown, Pa.
Illinois Steel Co. (Open Hearth Steel), 115 Adams, Chicago, Ill.
Indiana Steel Co. (Open-Hearth Steel), Commercial Bank bldg, Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
La Belle Iron Works (Basic Open Hearth Steel), Steubenville, O.
Lackawanna Steel Co. (Bessemer & Open-Hearth Steel), Buffalo, N. Y.
Lukens Iron & Steel Co. (Open-Hearth Steel), Coatesville, Pa.
Tennessee Coal, Iron & Railroad Co. (Open-Hearth Steel), Birmingham, Ala.
Worth Bros Co. (Open-Hearth Steel), Coatesville, Pa.

Plates (Splice)

Penna. Steel Co., Girard bldg., Phila., Pa.
Reading Iron Co., Reading, Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER COMPANY.
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Plates (Spring)

Union Spring & Mfg. Co., New Kensington, Pa.

Plates (Stair)

Globe Mfg. Co., Painesville, O.
TURNER & SEYMOUR MFG. CO. (Brass), Torrington, Conn. (See adv. index, end of book)

Plates (Steel Buckled)

Glasgow Iron Co. (For Bridges, Buildings, etc.), Pottstown, Pa.

Plates (Steel Etching)

Lippert, E. T. Saw Mfg. Co. (Used in Glass Houses for Decorating Glassware), Bennett, Pa.

Plates (Surface)

Brown & Sharpe Mfg. Co., Providence, R. I.
Hnb Machine & Tool Co. ("Acme"), 621 Cherry, Phila., Pa.
Putnam Machine Co., Fitchburg, Mass.
Rogers, Jno. M. Works, Gloucester City, N. J.
Snyder & Metcalf, Waterford, N. Y.

Plates (Switch)

Altoona Iron Co. (Padded), Altoona, Pa.
Logan Iron & Steel Co., Burnham, Pa.

Plates (Tie)

Atlas Railway Supply Co., Manhattan bldg, Chicago, Ill.
Beaver Dam Malleable Iron Co., Beaver Dam, Wis.
Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works: Harvey, Ill.
Cambria Steel Co., Arcade bldg, Phila., Pa.
Consolidated Supply Co., 321 Dearborn, Chicago, Ill.
Dilworth, Porter & Co. ("Goldie" Claw, etc.), Pittsburgh, Pa., & 45 Cliff, New York
Elyria Iron & Steel Co. (R. R.), Elyria, O.
FAIRBANKS, MORSE & CO., Wabash av & Eldridge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Illinois Steel Co. (Bessemer Steel), 115 Adams, Chicago, Ill.
KOPPEL, ARTHUR CO., Machesney bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Lackawanna Steel Co., Buffalo, N. Y.
Niagara Forged Steel Co. (Also Combination Tin Plate & Rail Braces), Buffalo, N. Y.
Oliver Iron & Steel Co., Pittsburgh, Pa.
Penna. Steel Co., Girard bldg., Phila., Pa.
Pittsburg Forge & Iron Co., Pittsburgh, Pa.
Portsmouth Steel Co., Wheeling, W. Va.
Rail Joint Co. ("Federal" & "Chicago"), 29 W 34th, New York

Railroad Supply Co. ("Q. & W." "Wolhaupter," "Servis," "C. A. C." Shoulder Flange Flat Bottom Combination"), Bedford bldg, Chicago, Ill.

Reading Iron Co. (Iron), Reading, Pa.
Sellers Mfg. Co., 27 W Chicago av, Chicago, Ill.
Weir Frog Co., Beach & Highland av, Cincinnati, O.
Wharton, Wm., Jr., & Co. (Inc.), 25th & Washington av, Philadelphia, Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER COMPANY.
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Plates (Turn)

Starr Bros. Bell Co. (Wrought Bronze), East Hampton, Conn.

Plates (Universal)

Cambria Steel Co. (Steel), Arcade bldg, Phila., Pa.
Carbon Steel Co. (Open Hearth Steel), Pittsburgh, Pa.
Carnegie Steel Co. (Open Hearth Steel), Pittsburgh, Pa.
Central Iron & Steel Co. (Steel Bridge & Structural), Harrisburg, Pa.
Glasgow Iron Co., Pottstown, Pa.
Illinois Steel Co. (Bessemer & Open Hearth Steel), Commercial Bank bldg., Chicago, Ill.
Indiana Steel Co. (Open Hearth Steel), Commercial Bank bldg., Chicago, Ill.
Inland Steel Co. (Open Hearth Steel), 1st Nat. Bank bldg., Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburgh, Pa.
La Belle Iron Works (Basic Open Hearth Steel), Steubenville, O.
Lackawanna Steel Co. (Bessemer & Open Hearth Steel), Buffalo, N. Y.
Lucknow Iron & Steel Co. (Iron & Steel), Harrisburg, Pa.
Lukens Iron & Steel Co. (Open Hearth Steel Plates of All Kinds), Coatesville, Pa.
United Steel Co. (Open Hearth Steel), Canton, O.
Wood, Alan Iron & Steel Co. (Open Hearth Steel), 519 Arch, Phila., Pa.
Youngstown Sheet & Tube Co. (Bessemer & Open Hearth Steel), Youngstown, O.

Plates (Welding)

HILL & GRIFFITH CO., ("Lafitte"), Cincinnati, O. (See adv. index, end of book)
Phillips-Lafitte Co. ("Lafitte" Chemically Weld Iron & Steel), Penna. bldg., Phila., Pa.

Plates (Wire Drawing)

Newman, C. Wire Co., 143 Liberty, New York
Newton, J. W. (Importer & Dealer), 81 John, New York

Plates (Zinc)

Edes Mfg. Co., Plymouth, Mass.
Matthiessen & Hegeler Zinc Co. (Rolled), La Salle, Ill.
Phillips, Ezra & Sons (Pure Rolled), South Hanover, Mass.

Platforms (Steel Car)

National Car Conpler Co., Monadnock blk, Chicago, Ill. Works, Attica, Ind.
Standard Coupler Co., 2 Rector, New York
Works, Bridgeport, Conn.

Plating Apparatus

Hanson & Van Winkle Co., Newark, N. J.
Zucker, Levett & Loeb Co. (Revolving Plating Apparatus for Automatic Plating), 516 W. 25th, New York

Plating Works

Acorn Brass Mfg. Co., 203 Fulton, Chicago, Ill.
American Foundry & Mfg. Co., St. Louis, Mo.
American Tube & Stamping Co. (Nickel, Brass & Copper), Bridgeport, Conn.
Arcade Mfg. Co. (Nickel), Freeport, Ill.
Boston Brass Co. (Nickel Platers), 36 Oliver, Boston, Mass.
Bnescher Band-Instrument Co. (All Kinds), Elkhart, Ind.

Central Plating Works, Indianapolis, Ind.
 Columbia Machine Works & Malleable Iron Co. (Nickel, etc.), 269 Chestnut, Brooklyn, N. Y.
 Dailey Plating Co., Lynn, Mass.
 Delaware Maine Supply Mfg. Co. (Brass & Bronze), Wilmington, Del.
 Devlin, Thos. Mfg. Co. (Electro Plating in Gold Silver, Nickel, Brass & Bronze), 3d & Lehigh av., Phila., Pa.
 Eastwood Wire & Mfg. Co. (Nickel Platings, Oxidizing), Belleville, N. J.
 Edwardsville Brass Co. (Nickel, Electro, etc.), Edwardsville, Ill.
 Enterprise Brass & Plating Co., 2838 Spring Grove av., Cincinnati, O.
 Enterprise Mfg. Co. (Nickel, etc.), Newburgh, N. Y.
 Excelsior Brass Works (Gold, Silver, Brass, Nickel, Copper & Oxidizing), Reading, Pa.
 Frazer & Jones (Nickel, Brass & Copper), Syracuse, N. Y.
 Gaumer, Jno. L. Co. (Electro, Gold, Silver, Nickel, Copper, etc.), 22d & Wood, Phila., Pa.
 Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.
 Gray Iron Foundry Co., Reading, Pa.
KEIM, JOHN R. MILLS (Inc.) (Nickel, etc.) (See adv. index, end of book)
 Kienzie, W. F. (Gold, Silver, Oroide, Brass & Nickel), 92 Ohio, Chicago, Ill.
 Lockwood Co. (Nickel & Silver), Newark, N. J.
 Loeffelholz Co. (Silver & Nickel), Milwaukee, Wis.
 Metal Finishing Co., Union City, Conn.
 Miller, J. Walter (Gold, Silver & Nickel), Lancaster, Pa.
 Mills, Wm. J. (Gold, Silver & Nickel Plating), 639 Kent av., Brooklyn, N. Y.
 Milwaukee Automatic Machine Co. (Brass, Copper & Nickel), Milwaukee, Wis.
 Naugatuck Mfg. Co., Naugatuck, Conn.
 Norwich Nickel & Brass Co. (Nickel, Copper & Silver), Norwich, Conn.
 Ohio Foundry Co. (Nickel), Cleveland, O.
 Philadelphia Hardware & Malleable Iron Works (Inc.), 9th & Jefferson, Phila., Pa.
 Racine Malleable & Wrought Iron Co. (Nickel, etc.), Racine, Wis.
 Reed & Prince Mfg. Co. (Nickel, Brass & Copper), Worcester, Mass.
 Sessions, J. H. & Son (Brass, Nickel & Bronze Plating & Polishing), Bristol, Conn.
 Timberlake, J. B. & Sons (Gold, Silver & Nickel), Jackson, Mich.
 Tresal Bronzing & Plating Co. (Bronzers, Gilders & Platers), 245 W 28th, New York
 Turner Brass Works, Syracuse, Ill.
TURNER & SEYMOUR MFG. CO. (Silver, Nickel, Gold, etc.), Torrington, Conn. (See adv. index, end of book)
VOELKNER & HARRY MFG. CO., 125 Woodbridge W., Detroit, Mich. (See adv. index, end of book)
 Vogel, Wm., & Bros., 37 S. 9th, Brooklyn, N. Y.
 Welskittle, A. & Son (Nickel Platers, Enamellers, etc.), Aliceanna & Washington, Baltimore, Md.
 Woods-Sherwood Co. (Nickel & Silver), Lowell, Mass.
WRIGHT WIRE CO. (All Kinds of Plating), Worcester, Mass. (See adv. index & branch offices, end of book)

Platinoid (Non-Fusing)

Manhattan Dental Co., Times bldg., New York

Platinum

AMERICAN PLATINUM WORKS (Specialties), Chestnut st & N. J. R. R. av., Newark, N. J. (See adv. index, end of book)
 Baker & Co. (Inc.) (Special Shapes), Newark, N. J.
 Bishop J. & Co. (Refiners & Melters, Wire, Plate, Tubes & Special Shapes), Malvern, Pa.

Croslmire & Ackor Co., Newark, N. J.
 Goldsmith Bros. Smelting & Refining Co., Heyworth bldg., Chicago, Ill.
 Platt, C. S. Co., 31 Gold, New York
 Schawel, Jas. & Co., 27 John, New York
 Roessler & Hasslacher Chemical Co. (Jobbers), 100 William, New York

*Platinum Crucibles & Dishes

AMERICAN PLATINUM WORKS, Chestnut st & N. J. R. R. av., Newark, N. J. (See adv. index, end of book)
CROSELMIRE & ACKOR CO., 42 Walnut, Newark, N. J. (See adv. index, end of book)

*Platinum Foil

CROSELMIRE & ACKOR CO. (Very Soft), 42 Walnut, Newark, N. J. (See adv. index, end of book)

*Platinum Gauze

CROSELMIRE & ACKOR CO., 42 Walnut, Newark, N. J. (See adv. index, end of book)

*Platinum-Iridium Balls

CROSELMIRE & ACKOR CO., 42 Walnut, Newark, N. J. (See adv. index, end of book)

*Platinum-Iridium Sheet & Wire

CROSELMIRE & ACKOR CO., 42 Walnut, Newark, N. J. (See adv. index, end of book)

Platinum Sheet & Wire

AMERICAN PLATINUM WORKS, Chestnut st & N. J. R. R. av., Newark, N. J. (See adv. index, end of book)
 Baker & Co. (Also Iridio Platinum), 408 N. J. R. R. av., Newark, N. J.
 Bishop, J. & Co., Malvern, Pa.
CROSELMIRE & ACKOR CO. (Soft & Hard), 42 Walnut, Newark, N. J. (See adv. index, end of book)

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*Platinum Ware for Laboratory Use

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Pliers (Fencing)

Cronk & Carrier Mfg. Co., Elmira, N. Y.
 King, J. M. Co. (Inc.) ("Button's" Wire Cutter & Plier Combined), Waterford, N. Y.
 Utica Drop Forge & Tool Co., Utica, N. Y.

Pliers (Gas)

Ashcroft Mfg. Co., 85 Liberty, New York
 Athol Machine Co., Athol, Mass.
 Barnett, Oscar Foundry Co. ("Barnett"), Newark, N. J.
BERNZ, OTTO, S 13th, c S Orange av., Newark, N. J. (See adv. index, end of book)
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
 Cincinnati Tool Co., Norwood, Cincinnati, O.
 Clark, A. N. & Son, Plainville, Conn.
 Climax Specialty Co., Seneca Falls, N. Y.
 Crescent Tool Co. ("Crescent" & "Simplex" Combination Drop Forged Gas Pliers, Wire Cutter, Wrench & Screw Driver), Jamestown, N. Y.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Hall, Chas. E., Co. (Combination), Buffalo, N. Y.
 Hardware & Woodenware Mfg. Co., 693 B'way, New York
 Hjorth, Wm., & Co., Jamestown, N. Y.
 Indianapolis Drop Forging Co. (Combination), Indianapolis, Ind.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)
 Jennings, C. E. Co., 79 Reade, New York
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Kilborn & Bishop Co., New Haven, Conn.
 King, J. M. & Co., Waterford, N. Y.
 Kraeuter & Co., Newark, N. J.
 Lowentraut, P. Mfg. Co., Newark, N. J.
 Metal Finishing Co., Union City, Conn.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
 Osborne, C. S. & Co., Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Reed Mfg. Co., Erie, Pa.
 Rocky Hill Hardware Co., Rocky Hill, Conn.
 Sargent & Co., New Haven Conn., & 151 Leonard, New York
 Schollhorn, Wm. Co., New Haven, Conn.
 Smith & Egge Mfg. Co. ("S. & E. M. Co."), Bridgeport, Conn.
 Stortz, John & Son, 210 Vine, Philadelphia, Pa.
 Tower & Lyon Co., 95 Chambers, New York
 Utica Drop Forge & Tool Co., Utica, N. Y.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Center), 875 W Carroll av., Chicago, Ill.
 Walworth Mfg. Co., Boston, Mass.
 Washington Tool Co., Owatonna, Minn.

Pliers (Glass Cutters')

Kraeuter & Co., Newark, N. J.
 Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Pliers (Lead Pipe Expanding)

Anderson Coupling Co. ("Anderson"), Portland, Conn.
 Lord, L. L. Co. ("Lord"), Meadville, Pa.

Pliers (Lineman's)

Cincinnati Tool Co. ("Hargrave's"), Cincinnati, O.
 Crescent Tool Co. ("Crescent" Drop Forged), Jamestown, N. Y.
 Cronk & Carrier Mfg. Co. (Insulated & Non-Insulated), Elmira, N. Y.
 Dicke Tool Co., Downers Grove, Ill.

PLATINUM PLATE, SHEET, WIRE, RIVETS, CONTACT POINTS, SEAMLESS TUBING, PLATINUM CRUCIBLES, DISHES, ELECTRODES, ETC.

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IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)
Johns, H. W.-Manville Co. (Insulated), 100 William, New York
Klein, Mathias & Son, 57 W Van Buren, Chicago, Ill.
Peck, Stow & Wilcox Co. (Mica Handle), Southington, Conn.
Schollhora, Wm. Co. ("Bernard's"), New Haven, Conn.
Utica Drop Forge & Tool Co., Utica, N. Y.

Pliers (Piano Makers')

Kraeuter & Co., Newark, N. J.

*Pliers (Pressed Steel)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Pliers & Nippers

(See also Clinchers; also Pliers, Gas)

Athol Machine Co. (Combination, etc.), Athol, Mass.
Barnett, Oscar Foundry Co. (Combination Pliers, etc.), "Barnett", Newark, N. J.
Bergman Hardware & Tool Mfg. Co., Buffalo, N. Y.
BERNZ, OTTO (Cutting, Combination, etc.), S 13th & S Orange av. Newark, N. J. (See adv. index, end of book)
Billings & Spencer Co. (Cutting, Combination, Gas, etc.), Hartford, Conn.
Blair, E., Bucyrus, O.
Bonner, C. E. Mfg. Co., Chrisman, Ill.
Bridgeport Hardware Mfg. Co. (Gas, Flat Nose & Combination Pliers, etc.), Bridgeport, Conn.
Cincinnati Tool Co. (Combination Pliers, etc.), Norwood, Cincinnati, O.
Clark, A. N. & Son, Plainville, Conn.
Crescent Tool Co. ("Crescent," "Simplex" Drop Forged Combination Gas Pliers, Wire Cutter & Screw Driver Combined), Jamestown, N. Y.
Cronk & Carrier Mfg. Co. (Combination Pliers), Elmira, N. Y.
Dicke Tool Co. (Combination, Wireman's, etc.), Downers Grove, Ill.
Hall, Chas. E. Co. (Adjustable Combination Pliers), Buffalo, N. Y.
Hjorth, Wm. & Co. (Also Pocket Pliers), Jamestown, N. Y.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.) ("Button's" Combination Plier), 169 Chambers, New York. (See adv. index, end of book)
Kilborn & Bishop Co. (Forged Combination & Gas Pliers), New Haven, Conn.
King, J. M. Co. (Inc.) (Combination, etc.), Waterford, N. Y.
Kraeuter & Co. (Combination), 577 18th av. Newark, N. J.
Osborne, C. S. & Co. ("C. S. O. & Co.," Gas, Saddlers', etc.), Harrison, N. J.
Peck, Stow & Wilcox Co. (Round & Flat Nose, etc.), Southington, Conn.
Reed Mfg. Co. (Combination Gas Pliers), Erie, Pa.
Sayre, L. A. Co. ("Hercules" Fence Pliers), Newark, N. J.
Schollhorn, Wm. Co. ("Bernard's," "Paragon," Pliers & Nippers Combined), New Haven, Conn.
Smith, Otis A. (Side Cutting), Rockfall, Conn.
Stortz, John & Sons (Gas), 210 Vine, Phila., Pa.
Utica Drop Forge & Tool Co. (Cutting, etc.), Utica, N. Y.
Walworth Mfg. Co. (Gas, etc.), Boston, Mass.

Plow Beams (Steel)

Carnegie Steel Co., Carnegie bldg. Pittsburg, Pa.
Empire Plow Co., Cleveland, O.
Hench & Druggold Co., York, Pa.
Inland Steel Co. (Open Hearth Steel), First National Bank bldg., Chicago, Ill.
Interstate Iron & Steel Co. (High Carbon Steel), 1st Nat'l. Bank bldg., Chicago, Ill.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Norwalk Steel & Iron Co., Norwalk, O.
Republic Iron & Steel Co., Pittsburg, Pa.
Shunk Plow Co., Bucyrus, O.

Plow Coulters

Avery, B. F. & Sons ("Moore"), Louisville, Ky.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.

Bradley, David Mfg. Co. ("Bradley" Caste), Bradley, Ill.
Buckeye Mfg. Co. (Rolling), Canton, O.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.
Carnegie Plow & Mfg. Co. ("Universal" & "Star"), Carnegie, Pa.
Clayton, John Plow Works ("Universal"), Minneapolis, Minn.
Collins Plow Co., Quincy, Ill.
Eaton Plow Works (V. A. Stookey & Son, Prop.), Pinckneyville, Ill.
Empire Plow Co., Cleveland, O.
Fort Madison Plow Co., Fort Madison, Ia.
Fuller & Johnson Mfg. Co., Madison, Wis.
Galesburg Coulter-Disc Co. ("Sandoval" "Galesburg" Rolling), Galesburg, Ill.
Hartford Plow Works ("Tally Ho"), Hartford, Wis.
Hartman Mfg. Co. ("Acme" Jr. & Sr.), Vincennes, Ind.
Hench & Druggold Co., York, Pa.
Herschel, R. Mfg. Co., Peoria, Ill.
Kingman Plow Co. ("Kingman Universal"), Peoria, Ill.
La Crosse Plow Co. ("La Crosse"), La Crosse, Wis.
Lambert, J. C., Co., Tonica, Ill.
Minneapolis Plow Works ("Johnson," "Quincy," "Monitor," "Invincible"), Minneapolis, Minn.
Moline Plow Co. ("New Universal" Roller), Moline, Ill.
Moore, C. H., Toledo, O.
Morris Bros. ("Cyclone" Roller & Breaker), Dewitt, Iowa
Nevin & Wetmore, Lowville, N. Y.
Owensboro Shovel & Tool Co., Owensboro, Ky.
Parlin & Orendorff Co., Canton, Ill.
Rock Island Plow Co. ("Universal," "Rock Island"), Rock Island, Ill.
South Bend Chilled Plow Co., South Bend, Ind.
Sparta Plow Works ("Adjustable"), Sparta, Wis.
Spler, Hugh ("Boss"), Bunker Hill, Ill.
Star Coulter Co. ("Star"), Canton, O.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Weyburn Co. ("Ideal" Rolling), Rockford, Ill.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Plow Jointers

Buckeye Mfg. Co., Canton, O.

Plow Mfrs.

Adams, S. & Son, Rome, N. Y.
Allen, S. L. & Co., 1107 Market, Phila., Pa.
Almy, Saml. & Son, Trumansburg, N. Y.
American Plow Co., Madison, Wis.
American Road Mach. Co., Kennett, sq., Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Arnold's, G. W. Son, Ionia, Mich.
Atlanta Agricultural Works, Atlanta, Ga.
Atlanta Plow Co., Atlanta, Ga.
Austin-Bryan Mfg. Co. (Wood & Steel Beam), Avery Co., Peoria, Ill.
Avery Co., Peoria, Ill.
Avery, B. F. & Sons (Chilled Steel), Louisville, Ky.
Babcock Mfg. Co., Leonardsville, N. Y.
Barnes Mfg. Co., Lanesboro, Pa.
Bailey, E. Martin, Leroyville, Pa.
Bailey, Nichols & Co., Delavan, Ill.
Ball, Mitchell & Co., Maysville, Ky.
Beach Mfg. Co. (Chilled), Lyons, Mich.
Beachtolt, Geo. E., Urbana, O.
Becker, J. E., Appleton, Wis.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Bement's, E. Sons (Chilled), Lansing, Mich.
Benicia Agricultural Works, Benicia, Cal.
Billup, C. Son & Co., Norfolk, Va.
Blount, Henry F., 1400 Main, Evansville, Ind.
Bostwick, A. & Son, Lapeer, Mich.
Bowers, R. Q. & Sons, Hackettstown, N. J.
Blount, Henry F., Evansville, Ind.
Bradley, David Mfg. Co. (Chilled), Bradley, Ill.
Bradley, P., Harrisonburg, Va.
Brinly-Hardy Co. (Hand Welded Steel Point), Louisville, Ky.
Brokan, Abram, Bloomington, Ill.
Brookman, A. F., Bay City, Mich.
Brown, Geo. W. & Co., Galeaburg, Ill.
Brown, J. I., Woodbury, Pa.
Brown-Manly Plow Co., Malta, O.
Brown Mfg. Co., Zanesville, O.
Bryan Plow Co., Bryan, O.
Bucher & Gibbs Plow Co. (Chilled Steel, Combination), Canton, O.
Buffalo-Pitts Co., Buffalo, N. Y.
Buhr, H. J. & Co., Washington, Mo.
Burch Plow Works Co., Crestline, O.
Burton Handle Co. (Chilled), Burton, O.

Call-Watt Co., Richmond, Va.
Carter, W. D. Mfg. Co., Canisteo, N. Y.
Case, J. I. Plow Works, Racine, Wis.
Cass City Fdy. & Machine Co., Cass City, Mich.
Castile Chilled Plow Co., Castile, N. Y.
Caward, R. S., Cresco, Iowa
Champlain Agricultural Works, Champlain, N. Y.
Chattanooga Plow Co. (Chilled), Chattanooga, Tenn.
Christiansburg Chilled Plow & Machine Works (Chilled), Christiansburg, Va.
Clipper Chilled Plow Co. (Chilled), Elmira, N. Y.
Clore's Wm. Sons, Rising Sun, Ind.
Collins Co. (Gang & Wheel Walking), Collinsville, Conn.
Collins Plow Co. (Walking or Rlding), Quincy, Ill.
Columbia Plow Works (Chilled), Copake Iron Works, N. Y.
Cooper, A. A. Wagon & Buggy Co., Dubuque, Iowa
Crescent Forge & Shovel Co., Havana, Ill.
Curry Plow Co., Wellington, Kan.
Cutaway Harrow Co., Higganum, Conn.
Davidson, A. Foundry Co., Canandaigua, N. Y.
Davis Mfg. Co. (Chilled), Flushing, Mich.
Deats, Hiram, Jr., Pittstown, N. J.
Deere & Co., Moline, Ill.
Donaldson Bros. (Steel & Wood Rim), Mount Clemens, Mich.
Drummond Plow Co., Asheville, N. C.
Dutton, E. L. & Co. (Iron & Wood Beam), Cato, N. Y.
Eagle Mfg. Co., Kansas City, Mo.
Eaton Plow Works (V. A. Stookey & Son, Props.), Pinckneyville, Ill.
Eddy, W. Plow Co., Greenwich, N. Y.
Emerson Mfg. Co., Rockford, Ill.
Empire Plow Co., Cleveland, O.
Eureka Plow Co. (Walking), Utica, N. Y.
Fair & Sons, Blaine, Mich.
Fairfield Plow Works, North Fairfield, O.
Farquhar, A. B. Co. (Chilled), York, Pa.
Fonda, F. A., East Galway, N. Y.
Fort Madison Plow Co., Fort Madison, Ia.
Fuller & Johnson Mfg. Co., Madison, Wis.
Gale Mfg. Co. (3-Wheel Sulky, 3-Wheel Gang, Rlding, & One, Two & Three-Horse Walking), Albion, Mich.
Galesburg Coulter-Disc Co., Galesburg, Ill.
Gelser Mfg. Co., Waynesboro, Pa.
Geneva Tool Co., Geneva, O.
Gesley Mfg. Co., Beloit, Wis.
Goddard, Silas & Son (Steel & Iron), South Durham, Me.
Gowanda Agricultural Works (Steel), Gowanda, N. Y.
Grand Delour Plow Co. (Listing), Dixon, Ill.
Greenville Implement Co., Greenville, Mich.
Hall, Jas. H. Plow Co., Maysville, Ky.
Hamacke, Frank, Kewaunee, Wis.
Hapgood Plow Co., Alton, Ill.
Harriman Plow & Handle Co., Harriman, Tenn.
Hartford Plow Works, Hartford, Wis.
Hartig-Becker Plow Co., Evansville, Ind.
Hange, G. A., Albert Lea, Minn.
Hench & Druggold Co. (Inc.), York, Pa.
Hillsdale Plow Co., Hillsdale, N. Y.
Hildreth, G. W. & Co. (Scotch), Lockport, N. Y.
Houser & Haines Mfg. Co., Stockton, Cal.
Hulbert, Geo. A., Old Catham, N. Y.
Hussey Plow Co., N Berwick, Me.
Implement Mfg. Co., Davenport, Iowa
Indiana Road Machine Co., Fort Wayne, Ind.
Janesville Machine Co., Janesville, Wis.
Johnson, Jno. S., Waukon, Iowa
Johnson & Smith Co., Austin, Minn.
Kaster, P. M., Rimersburg, Pa.
Kelly, G. A. Plow Co., Longview, Texas
Kennehan, P. E., Brashear Falls, N. Y.
Kerns, H. O., Sutherland, Va.
Keystone Farm Machine Co., York, Pa.
Kingman Plow Co., Peoria, Ill.
Knutson, C., Berlin, Wis.
La Crosse Plow Co., La Crosse, Wis.
Leader Plow Co., Staunton, Va.
Lee, R. E., Almont, Mich.
Lehr Agricultural Co., Fremont, O.
Leroy Plow Co., Leroy, N. Y.
Little, O. J., Deckertown, N. J.
Logan Foundry & Machine Works, Logansport, O.
Long & Allstatter Co., Hamilton, O.
Look & Lincoln, Marion, Va.
Loose, Samuel A., Hamburg, Pa.
Lovejoy Co. (Chilled), Cambridge, N. Y.
Luthy & Co., Peoria, Ill.
Lyon Iron Works, Greene, N. Y.
McDonnell Foundry & Machine Co., Jack-Marietta Mfg. Co., Marietta, O. son, Miss.
Marsh, E. B. Bros. & Co., Syndersville, Pa.
Martinsburg Foundry, Martinsburg, Pa.
Matteson & Williamson Mfg. Co., Stockton, May, Wm. H. & Son, Alexandria, Va. Col.
Merrill, F. C., South Paris, Me.
Midland Mfg. Co., Fariko, Mo.

Minneapolis Plow Works, Minneapolis, Minn.
 Mishawaka Plow Co., Mishawaka, Ind.
 Moline Plow Co., Moline, Ill.
 Monmouth Plow Co., Monmouth, Ill.
 Moore Plow & Implement Co. (Walking), Greenville, Mich.
 Mount Pleasant Plow Co., Mount Pleasant, Mich.
 Mountville Mfg. Co., Mountville, Pa.
 Munnsville Plow Co., Munnsville, N. Y.
 Murkland, J. W. Barton, Vt.
 Nevins Iron Works, Lowville, N. Y.
 Northwestern Steel & Iron Works, Eau Claire, Wis.

Oldeudorff, Jacob (Iron Beam), Waterloo, Ill.
 Oliver Rake Co., Dayton, O.
 Ohio Cultivator Co., Bellevue, O.
 Oylter Plow Co., Barberton, O.
 Painter & Frankland, Albion, Ill.
 Parlin & Orendorff Co., Canton, Ill.
 Parrott Mfg. Co., Dayton, O.
 Pattee Plow Co., Monmouth, Ill.
 Peek, S. H. (Steel), East Aurora, N. Y.
 Pekin Plow Co., Pekin, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Puddock & Lermont, Harbor Beach, Mich.
 Racine-Sattley Co., Springfield, Ill.
 Reeves & Co., Columbus, Ind.
 Richmond Plow Co., Richmond, Ind.
 Ripson, Wm. & Son, Youngstown, N. Y.
 Robinson Chilled Plow Co., Canandaigua, N. Y.
 Rockford Mfg. Co., Rockford, Ill.
 Rock Island Plow Co. (Chilled & Steel), Rock Island, Ill.
 Ross, A. M. & Co., Illon, N. Y.
 Rowell, I. B. & Co. (Riding or Walking), Menominee Falls, Wis.

Roy Plow Co., Paragould, Ark.
 St. Joseph Mfg. Co. (Chilled & Steel), Mishawaka, Ind.

St. Joseph Plow Co., St. Joseph, Mo.
 Sellers, Edw., Oakhill Station, Pa.
 Shangle, John R., Hightstown, N. J.
 Shaw, H. C. Co., Stockton, Cal.
 Shunk Plow Co., Bucyrus, O.
 Sioux Falls Plow Co., Sioux Falls, S. Dak.
 Smalley Mfg. Co., Manitowoc, Wis.
 Smith-Amann Plow Co., Columbus, O.
 Smith & Sons Mfg. Co., Kansas City, Mo.
 South Bend Chilled Plow Co. (Chilled), South Bend, Ind.

South Bend Foundry Co., South Bend, Ind.
 Southern Agricultural Works Co. (Chilled), Atlanta, Ga.

Southern Plow Co., Columbus, Ga.
 Southern Rock Island Plow Co., Rock Island, Ill.
 Sparta Plow Works, Sparta, Ill.
 Spaulding Dobbins Disc Plow Co., San Francisco, Cal.

Speer, A. & Sons, Pittsburg, Pa.
 Spieth, Gottlieb F., Des Moines, Ia.
 Star Mfg. Co., Carpentersville, Ill.
 Stark's Dixie Plow Works, Richmond, Va.
 Stehn Mfg. Co., Sheboygan, Wis.
 Stoughton Wagon Co., Stoughton, Wis.
 Steward, A. T. Co., Carnegie, Pa.
 Stroker, Fritz C., Olney, Mo.
 Sturgis, W. B. & Son, Shelbyville, Ill.
 Swinton & Co., Port Jervis, N. Y.
 Syracuse Chilled Plow Co. (Chilled), Syracuse, N. Y.

Thompson, J. & Sons Mfg. Co. (Chilled), Beloit, Wis.
 Tomasek & Nekola, La Crosse, Wis.
 Towers & Sullivan Mfg. Co., Rome, Ga.
 Varney, J. B., Plow Co., North Berwick, Me.
 Volunteer Disc Plow Co., Chattanooga, Tenn.
 Vulcan Plow Co. (Chilled & Steel), Evansville, Ind.
 Walker-Sims Plow Co., Atlanta, Ga.
 Watkins Chilled Plow Co. (Chilled), Watkins, N. Y.
 Watts Plow Co., Richmond, Va.
 Wayne Agricultural Works, Goldsboro, N. C.
 Wells, H. B. & Sons, Ithaca, N. Y.
 Wells-Jones Plow Co., Jackson, Tenn.
 Western Wheeled Scraper Co., Aurora, Ill.
 White, S. R. Bro., Norfolk, Va.
 Whitehurst, R. W. Co., Norfolk, Va.
 Whitman, E. B. & Co. (Chilled), Baltimore, Md.
 Wlard Plow Co. (Chilled & Steel), Batavia, N. Y.
 Wilder-Strong Implement Co., Monroe, Mich.

Plows (Beet)

Parlin & Orendorff Co., Canton, Ill.

Plows (Breaking)

American Road Machine Co., Kennett Square, Pa.
 Avery, B. F. & Sons, Louisville, Ky.
 Bement's E. Sons, Lansing, Mich.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brinly-Hardy Co., Louisville, Ky.
 Brown, Geo. W. & Co. (Rod), Galesburg, Ill.
 Brown-Manly, Malta, O.
 Busch Plow Works Co., Crestline, O.
 Case, J. I. Plow Works, Racine, Wis.
 Chattanooga Plow Co., Chattanooga, Tenn.
 Clipper Plow Co., Defiance, O.
 Deere & Co., Moline, Ill.
 Eagle Mfg. Co. ("Middle Buster"), Kansas City, Mo.
 Emerson Mfg. Co., Rockford, Ill.
 Fort Madison Plow Co., Fort Madison, Ia.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co., Albion, Mich.
 Grand Detour Plow Co., Dixon, Ill.
 Hensch & Bromgold Co., York, Pa.
 Hopgood Plow Co., Alton, Ill.
 Horing-Becker Plow Co., Evansville, Ind.
 Johnson & Smith Co. (Grub & Sod), Austin, Minn.
 Klugman Plow Co., Peoria, Ill.
 La Crosse Plow Co., La Crosse, Wis.
 Lanfersleek-Grothaus Co., New Bremen, O.
 Lee Bros., Watertown, S. Dak.
 Lehr Agricultural Co., Fremont, O.
 Messinger Mfg. Co., Tatamy, Pa.
 Minneapolis Plow Works, Minneapolis, Minn.
 Moline Plow Co., Moline, Ill.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co. ("Canton"), Canton, Ill.
 Parrott Mfg. Co., Dayton, O.
 Peru Plow & Wheel Co. (Tongue & Tongueless), Peru, Ill.

Richmond Plow Co., Richmond, Ind.
 Rock Island Plow Co., Rock Island, Ill.
 St. Joseph Mfg. Co., Mishawaka, Ind.
 St. Joseph Plow Co., St. Joseph, Mo.
 Sattley Mfg. Co., Springfield, Ill.
 Schuereberg, F. W. (Also Wagons), Brenham, Tex.
 Shunk Plow Co. (Steel, Street, etc.), Bucyrus, O.
 Smith-Amann Plow Co. (Combination), Columbus, O.
 South Bend Chilled Plow Co., South Bend, Ind.
 Southern Agricultural Works Co., Atlanta, Ga.
 Southern Plow Co., Columbus, Ga.
 Sparta Plow Works, Sparta, Ill.
 Star Mfg. Co., Carpentersville, Ill.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Vulcan Plow Co., Evansville, Ind.
 Wagner Plow Co. (Chilled & Steel), Indianapolis, Ind.
 White, S. R. & Bro. (Grub), Norfolk, Va.

Plows (Clay)

CENTRAL IRON WORKS (For Brick Mfrs.), Quincy, Ill. (See adv. index, end of book)
 Fernholtz Brick Machinery Co., Boyle av & Old Manchester rd. St. Louis, Mo.

Plows (Contractors')

Acme Road Machinery Co., Frankfort, N. Y.
 American Road Machine Co., Kennett Square, Pa.
 American Steel Scraper Co. (Road), Sidney, O.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Austin Mfg. Co., Manhattan bldg. Chicago, Ill.
 Avery, B. F. & Sons, Louisville, Ky.
 Blount, Henry F. (Railroad), Evansville, Ind.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brinly-Hardy Co., 344 E Main, Louisville, Ky.
 Bucher & Gibbs Plow Co., Canton, O.
 Carnegie Plow & Mfg. Co. ("Carnegie Princess"), Carnegie, Pa.
 Case, George F., Stanton, Mich.
 Case, J. I. Plow Works, Racine, Wis.
 Climax Road Machine Co., Marathon, N. Y.
 Clipper Plow Co. (Road), Defiance, O.
 Collins Plow Co. (Boes & Giant, 2 to 12 Horses), Quincy, Ill.
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
 Deere & Co., Moline, Ill.
 Disc Grader & Plow Co. (Rotary Disc Plows), Hunter, North Dak.
DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

FAIRBANKS, MORSE & CO. (Grading, etc.), Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Fort Madison Plow Co., Fort Madison, Ia.
 Fresno Agricultural Works, Fresno, Cal.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. (Road & Railroad), Albion, Mich.
 Good Roads Machinery Co., Kennett Square, Pa.
 Gowanda Agricultural Works (Grading), Gowanda, N. Y.
 Heller, P. J., Montclair, N. J.
 Hildreth, G. W. & Co., Lockport, N. Y.
 Indiana Road Machine Co., Fort Wayne, Ind.
 Johnson & Smith Co. (Railroad, etc.), Austin, Minn.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Kingman Plow Co., Peoria, Ill.
 Lovejoy Co., Cambridge, N. Y.
 Moline Plow Co., Moline, Ill.
 Minneapolis Plow Works, Minneapolis, Minn.
 Munnsville Plow Co. ("Hercules"), Munnsville, N. Y.
 Oliver Chilled Plow Co., South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Port Huron Engine & Thresher Co., Port Huron, Mich.

Rock Island Plow Co., Rock Island, Ill.
 St. Joseph Plow Co., St. Joseph, Mo.
 Shunk Plow Co., Bucyrus, O.
 Sidney Steel Scraper Co., Sidney, O.
 Slusser-McLean Scraper Co. (Rooter), Sidney, O.
 Smith & Sons Mfg. Co., Lydia & Guillette av, Kansas City, Mo.

Stewart, A. T. Co., Carnegie, Pa.
 Strain, J. H., Co., 85 Front, New York
 Sturgis, W. B. & Son (Road), Shelbyville, Ind.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Universal Road Machinery Co., 120 Liberty, New York
 Vulcan Plow Co. (Road), Evansville, Ind.
 Western Wheeled Scraper Co. (Rooter & Grading), Aurora, Ill.
 Whitehurst, R. W. Co., Norfolk, Va.
 Wlard Plow Co., Batavia, N. Y.

Plows (Corn)

Deshay, D. H. (Arch Top Double), Elysburg, Pa.
 La Crosse Plow Co., La Crosse, Wis.
 Rock Island Plow Co., Rock Island, Ill.

Plows (Disc or Rotary)

Atlanta Agricultural Works, Atlanta, Ga.
 Avery, B. F. & Sons, Louisville, Ky.
 Bement's, E. Sons, Lansing, Mich.
 Benicia Agricultural Works, Benicia, Cal.
 Bradley, David Mfg. Co., Bradley, Ill.
 Chattanooga Plow Co., Chattanooga, Tenn.
 Centaway Harrow Co. (Disc Sulky), Higginum, Conn.
 Deere & Co., Moline, Ill.
 Disc Grader & Plow Co., Hunter, North Dak.
 Eagle Mfg. Co., Kansas City, Mo.
 Emerson Mfg. Co., Rockford, Ill.
 Houser & Haines Mfg. Co., Stockton, Cal.
 Kingman Plow Co., Peoria, Ill.
 La Crosse Plow Co., La Crosse, Wis.
 Long & Allstatter ("Hamilton," "Hancock" Disc), Hamilton, O.
 Moline Plow Co. (Rotary), Moline, Ill.
 Parlin & Orendorff Co., Canton, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Sanders, Newell Plow Co., Chattanooga, Tenn.
 South Bend Chilled Plow Co., South Bend, Ind.
 Southern Agricultural Works, Atlanta, Ga.
 Spaulding Robbins Disc Plow Co., San Francisco, Cal.
 Texas Disc Plow Co., Dallas, Tex.
 Volunteer Disc Plow Co., Chattanooga, Tenn.

Plows (Ditching)

American Road Machine Co., Kennett Square, Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Deere & Co., Moline, Ill.
 Hensch & Dromgold Co. (Inc.), York, Pa.
 Larimer Mfg. Co., Latrobe, Pa.
 Munnsville Plow Co., Munnsville, N. Y.
 Parlin & Orendorff Co., Canton, Ill.
 St. Joseph Plow Co., St. Joseph, Mo.

Plows (Gang)

American Plow Co. (All Steel), Madison, Wis.
 Avery, B. F. & Sons, Louisville, Ky.
 Bement's, E. Sons, Lansing, Mich.
 Benicia Agricultural Works, Benicia, Cal.
 Bradley, David Mfg. Co., Bradley, Ill.

Plowing Outfits (Steam)

Geiser Mfg. Co., Waynesboro, Pa.

Plows (Asparagus)

Wicoff, Chas. & Bro., Hightstown, N. J.

Plows (Ballast)

Bucyrus Co., So. Milwaukee, Wis.

Brown, George W. & Co., Galesburg, Ill.
 Bucher & Gibbs Plow Co., Canton, O.
 Case, J. I. Plow Works, Racine, Wis.
 Cass City Foundry Co., Cass City, Mich.
 Coffeyville Implement & Mfg. Co., Coffeyville, Kan.
 Collins Co., Collinsville, Conn.
 Collins Plow Co., Quincy, Ill.
 Cutaway Harrow Co. (Disc.), Higganum, Conn.
 Deere & Co. (Disc), Moline, Ill.
 Donaldson Bros., Mount Clemens, Mich.
 Emerson Mfg. Co., Rockford, Ill.
 Farquhar, A. B. Co., York, Pa.
 Fort Madison Plow Co., Fort Madison, Ia.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. ("Gale," "Daisy," "Great West"), Albion, Mich.

Galesburg Coulter-Disc Co. ("Brown"), Galesburg, Ill.
 Gelsner Mfg. Co., Waynesboro, Pa.
 Grand Detour Plow Co., Dixon, Ill.
 Greenville Implement Co. (Walking), Greenville, Mich.
 Hapgood Plow Co., Alton, Ill.
 Janesville Machine Co., Janesville, Wis.
 Keystone Iron Works, Los Angeles, Cal.
 Klingman Plow Co., Peoria, Ill.
 Klingman & Co., Peoria, Ill.
 La Crosse Plow Co., La Crosse, Wis.
 Matteson & Williamson Mfg. Co. (Reversible), Stockton, Cal.

Minneapolis Plow Works, Minneapolis, Minn.
 Moline Plow Co. ("Flying Dutchman" Engine (Moldboard & Disc), Moline, Ill.
 Monmouth Plow Co., Monmouth, Ill.
 Moore Plow & Implement Co., Greenville, Mich.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Pekin Plow Co., Pekin, Ill.
 Pepler, Thomas, Hightstown, N. J.
 Peru Plow & Wheel Co., Peru, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Rockford Mfg. Co. ("Farm Queen," "Rockford"), Rockford, Ill.

Rock Island Plow Co., Rock Island, Ill.
 Rowell, I. B. Co., Menominee Falls, Wis.
 Shangle, John R., Hightstown, N. J.
 Shaw, H. C. Co., Stockton, Cal.
 South Bend Chilled Plow Co. (Disc), South Bend, Ind.
 Sparta Plow Works, Sparta, Ill.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Wilder-Strong Implement Co., Monroe, Mich.

PLOWS (Gang, Steam)

Avery Co. ("Avery"), Peoria, Ill.
 Benicia Agricultural Works, Benicia, Cal.
 Deere & Co., Moline, Ill.
 Geisner Mfg. Co., Waynesboro, Pa.
 La Crosse Plow Co., La Crosse, Wis.
 Milton Garvin Steam Plow Co., Stafford, Kan.
 Parlin & Orendorff Co., Canton, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Reeves & Co., Columbus, Ind.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Wlward Plow Co., Batavia, N. Y.

PLOWS (Gang, Wheel)

Avery, B. F. & Sons, Louisville, Ky.
 Deere & Co., Moline, Ill.
 Hapgood Plow Co., Alton, Ill.
 Houser & Haines Mfg. Co. ("Stockton"), Stockton, Cal.
 Keystone Farm Machine Co., York, Pa.
 La Crosse Plow Co., La Crosse, Wis.
 Moline Plow Co., Moline, Ill.
 Parlin & Orendorff Co., Canton, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Shaw, H. C. Co. ("Stockton Reversible"), Stockton, Cal.
 Southern Agricultural Works Co., Atlanta, Ga.
 Syracuse Chilled Plow Co., Syracuse, N. Y.

PLOWS (Garden)

Allen, S. L. & Co., 1017 Market, Phila., Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Avery, B. F. & Sons, Louisville, Ky.
 Bateman Mfg. Co., Grenloch, N. J.
 Bissell, T. M. Plow Co., Eaton Rapids, Mich.
 Black, Geo. H., Buchanan, Mich.
 Brinly-Hardy Co., Louisville, Ky.
 Case, J. I. Plow Works, Racine, Wis.
 Crescent Forge & Shovel Co. (Wheel), Havana, Ill.
 Deere & Co., Moline, Ill.
 Deutscher, H. P. Co., Hamilton, O.
 Dutton, E. Q. & Co., Cato, N. Y.
 Fort Madison Plow Co., Fort Madison, Ia.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co., Albion, Mich.
 Leader Plow Co., Staunton, Va.
 Monmouth Plow Co., Monmouth, Ill.
 Parlin & Orendorff Co., Canton, Ill.

Richmond Plow Co., Richmond, Ind.
 Rock Island Plow Co., Rock Island, Ill.
 Sears, Albert H., Plano, Ill.
 Southern Agricultural Works Co., Atlanta, Ga.
 Southern Plow Co., Columbus, Ga.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Tenney & Sikking, Inc. (Wheel), Decatur, Ill.
 Thornburgh Mfg. Co. ("Climax"), Bowling Green, O.
 Whitehurst, R. W. Co., Norfolk, Va.
 Wlward Plow Co., Batavia, N. Y.

PLOWS (Grooving)

Ohio Tool Co. (Panel, etc.), Columbus, O.
 Sandusky Tool Co. (Panel Plows, Plow Arms, etc.), Sandusky, O.

PLOWS (Hop)

Adams, S. & Son, Rome, N. Y.
 Deere & Co., Moline, Ill.
 Dutton, E. Q. & Co., Cato, N. Y.
 Gale Mfg. Co., Albion, Mich.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Robinson Chilled Plow Co., Canandaigua, N. Y.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Whitehurst, R. W. & Co., Norfolk, Va.

PLOWS (Ice)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Bodenstein, J. G. & Co., Staatsburg, N. Y.
 Darnell, H. F. & Co., Athens, N. Y.
 Dorsch, Jno. & Sons, Milwaukee, Wis.
 Gerlach, Peter, Co., Columbus rd. & Winter, Cleveland, O.
 Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
 Grunman, G. B., Branchville, Conn.
 Hiles, O. A. & Co., 14th & Western av., Chicago, Ill.
 Stevens, Benj. A. Co., Toledo, O.
 Woodhouse, J. S., 191 Water, N. Y.

PLOWS (Locomotive)

Western Wheeled Scraped Co., Aurora, Ill.

PLOWS (Potato)

Brinly-Hardy Co., Louisville, Ky.
 Deere & Co., Moline, Ill.
 Gale Mfg. Co., Albion, Mich.
 Hartig-Becker Plow Co., Evansville, Ind.
 Hensch & Dromgold Co., Inc., York, Pa.
 La Crosse Plow Co., La Crosse, Wis.
 Parlin & Orendorff Co., Canton, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 Whitehurst, R. W. Co., Norfolk, Va.

PLOWS (Shovel)

Austin-Bryan Mfg. Co., Birmingham, Ala.
 Avery, B. F. & Sons (With Jumping Coulters), Louisville, Ky.
 Ball, Mitchell & Co., Maysville, Ky.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Bement's, E. Sons, Lansing, Mich.
 Benicia Agricultural Works, Benicia, Cal.
 Blount, Henry F., Evansville, Ind.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brinly-Hardy Co., Louisville, Ky.
 Bristol & Gale Co., Chicago, Ill.
 Brown, Geo. W. & Co., Galesburg, Ill.
 Brown-Manley Plow Co., Malta, O.
 Brown Mfg. Co., Zanesville, O.
 Burton Handle Co. (Extension Wing), Burton, O.
 Case, J. I. Plow Works, Racine, Wis.
 Chattanooga Plow Co., Chattanooga, Tenn.
 Clipper Plow Co., Defiance, O.
 Clore's, Wm. Sons, Rising Sun, Md.
 Deere & Co., Moline, Ill.
 Donaldson Bros., Mount Clemens, Mich.
 Drummond Plow Co. (Reversible Double Shovel), Asheville, N. C.

Dutton, E. Q. & Co., Cato, N. Y.
 Eagle Mfg. Co., Kansas City, Mo.
 Eddy, W. Plow Co., Greenville, N. Y.
 Emerson Mfg. Co. Co., Rockford, Ill.
 Empire Plow Co., Cleveland, O.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Fort Madison Plow Co., Fort Madison, Ia.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. ("New Era," "Gale," Single & Double Shovel, also Wing Shovel), Albion, Mich.
 Geneva Tool Co., Geneva, O.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Hartig-Becker Plow Co., Evansville, Ind.
 Hensch & Dromgold Co. (Inc), York, Pa.
 Howland Mfg. Co., Pontiac, Mich.
 Johnson & Smith, Austin, Minn.
 Keystone Farm Machine Co., York, Pa.

Klingman Plow Co., Peoria, Ill.
 Lehr Agricultural Co., Fremont, O.
 Lovejoy Co., Cambridge, N. Y.
 Moline Plow Co. (Single & Double), Moline, Ill.
 Moore Plow & Implement Co., Greenville, Mich.
 Munnsville Plow Co., Munnsville, N. Y.
 Northwestern Steel & Iron Works, Eau Claire, Wis.
 Ohio Cultivator Co., Bellevue, O.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Peek, S. H., East Ansonia, N. Y.
 Peru Plow & Wheel Co. (Single & Double), Peru, Ill.
 Reeves & Co., Columbus, Ind.
 Richmond Plow Co., Richmond, Ind.
 Rock Island Plow Co. (Single & Double), Rock Island, Ill.

St. Joseph Mfg. Co., Mishawaka, Ind.
 St. Joseph Plow Co., St. Joseph, Mo.
 Schoepflin, Chas., Gardenville, N. Y.
 Shumaker Bros. & Nixon, Castile, N. Y.
 South Bend Chilled Plow Co., South Bend, Ind.
 Southern Agricultural Works Co., Atlanta, Ga.
 Southern Plow Co., Columbus, Ga.
 Sparta Plow Works, Sparta, Ill.
 Syracuse Chilled Plow Co. (Blades & Wings of Steel), Syracuse, N. Y.
 Thompson, J. & Son Mfg. Co., Beloit, Mich.
 Toledo Plow Co., Toledo, O.
 Vulcan Plow Co., Evansville, Ind.
 White, S. R. & Bro., Norfolk, Va.

PLOWS (Snow)

(See also Snow Brooms & Sweepers, Street Railway; also Street Railway Sweeping Machines)

American Locomotive Co. ("Rotary"), 30 Church, New York
 Baker Mfg. Co., Fisher bldg., Chicago, Ill.
 Bloomsburg Car Mfg. Co., Bloomsburg, Pa.
 Brill, J. G. Co. (Electric & Nose & Shear Board Type), 62d & Woodland av., Phila., Pa.
 Bucyrus Co. (Rotary), South Milwaukee, Wis.
 Consolidated Car Fender Co. ("Campbell," Snow Broom), Providence, R. I.
GENERAL ELECTRIC CO., Schenectady, N. Y. & 30 Church, New York.
 (See adv. index & branch offices, end of book)
 Grothe, John J. (Electric Railway), Woburn, Mass.
 Indiana Road Machine Co. (Street R. R.), Fort Wayne, Ind.
 Kalamazoo Railway Supply Co. ("Root" Scraper), Kalamazoo, Mich.
 McGuire-Cummings Mfg. Co. (Street Railway), 112 N Sangamon, Chicago, Ill.
 Osborn Mfg. Co. ("Mogul"), Chicago, Ill.
 Russel Car & Snow Plow Co., Ridgeway, Pa.
 Smith & Wallace (Electric), Woburn, Mass.
 Wendell & MacDuffie, 50 Church, New York
 Wilder Snow Plow & Mfg. Co. (Electric), Worcester, Mass.

PLOWS (Sub-Soil)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Avery, B. F. & Sons, Louisville, Ky.
 Beach Mfg. Co., Lyons, Mich.
 Blount, Henry F., Evansville, Ind.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brinly-Hardy Co., Louisville, Ky.
 Bucher & Gibbs Plow Co., Canton, O.
 Case, J. I. Plow Works, Racine, Wis.
 Deere & Co., Moline, Ill.
 Farquhar, A. B. Co., Ltd., York, Pa.
 Fort Madison Plow Co., Fort Madison, Ia.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co. ("Gale," Steel), Albion, Mich.
 Grand Detour Plow Co., Dixon, Ill.
 Hall, Jas. H. Plow Co., Maysville, Ky.
 Moline Plow Co. (Walking), Moline, Ill.
 Munnsville Plow Co., Munnsville, N. Y.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Pern Plow & Wheel Co., Peru, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 South Bend Chilled Plow Co., South Bend, Ind.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Wlward Plow Co., Batavia, N. Y.

PLOWS (Sulky, Reversible)

Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Chipper Chilled Plow Co., Elmira, N. Y.
 Cutaway Harrow Co. (Disc), Higganum, Conn.
 Northwestern Steel & Iron Works, Eau Claire, Wis.
 Syracuse Chilled Plow Co., Syracuse, N. Y.

Plows (Sulky, Riding or Wheel)

American Plow Co., Madison, Wis.
 Avery, B. F. & Sons (Sulky, etc.), Louisville, Ky.
 Bateman Mfg. Co., Grenloch, N. J.
 Belcher & Taylor Agricultural Tool Co. (Reversible Sulky), Chicopee Falls, Mass.
 Bement's, E. Sons, Lansing, Mich.
 Benicia Agricultural Works, Benicia, Cal.
 Blount, Henry F. (Sulky), Evansville, Ind.
 Bradley, David Mfg. Co., Bradley, Ill.
 Brown, Geo. W. & Co., Galesburg, Ill.
 Bucher & Gibbs Plow Co., Canton, O.
 Case, J. I. Plow Works, Racine, Wis.
 Coffeyville Implement & Mfg. Co., Coffeyville, Kan.
 Collins Plow Co., Quincy, Ill.
 Deere & Co., Moline, Ill.
 Eagle Mfg. Co., Kansas City, Mo.
 Emerson Mfg. Co. (Sulky), Rockford, Ill.
 Farquhar, A. B. Co., York, Pa.
 Fort Madison Plow Co., Fort Madison, Ia.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co., Albion, Mich.
 Galesburg Coulter Disc Co. ("Brown"), Galesburg, Ill.
 Grand-Detour Plow Co., Dixon, Ill.
 Hagood Plow Co., Alton, Ill.
 Hench & Dromgold Co. (Inc.), York, Pa.
 Implement Mfg. Co., Davenport, Ia.
 Janesville Machine Co., Janesville, Wis.
 Kingman Plow Co. (Sulky, etc.), Peoria, Ill.
 La Cross Plow Co., La Crosse, Wis.
 Long & Allstatter Co. (Walking or Riding Mould Board), Hamilton, O.
 Lotley & Co., Peoria, Ill.
 Minneapolis Plow Works, Minneapolis, Minn.
 Moline Plow Co., Moline, Ill.
 Monmouth Plow Co., Monmouth, Ill.
 Munnsville Plow Co., Munnsville, N. Y.
 Oliver Chilled Plow Works, South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Pekin Plow Co., Pekin, Ill.
 Peru Plow & Wheel Co., Peru, Ill.
 Racine-Sattley Co., Springfield, Ill.
 Robinson Chilled Plow Co., Canandaigua, N. Y.
 Rockford Mfg. Co. ("Farm King," "Rockford," "Rockford, Jr.," "Rockford King"), Rockford, Ill.
 Rock Island Plow Co., Rock Island, Ill.
 St. Joseph Mfg. Co., Mishawaka, Ind.
 St. Joseph Plow Co., St. Joseph, Mo.
 South Bend Chilled Plow Co., South Bend, Ind.
 Sparta Plow Works, Sparta, Ill.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Toledo Plow Co., Toledo, O.
 Vulcan Plow Co. (Sulky), Evansville, Ind.
 Wiard Plow Co., Batavia, N. Y.

Plows (Swivel, Reversible & Hillside)

Ames Plow Co. (Swivel and Hillside), Quincy Hall, Boston, Mass.
 Avery, B. F. & Sons, Louisville, Ky.
 Ball, Mitchell & Co. (Hillside), Maysville, Ky.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Bissell, T. M. Plow Co. (Hillside), Eaton Rapids, Mich.
 Brinly-Harvey Co. (Hillside), Louisville, Ky.
 Bucher & Gibbs Plow Co. (Hillside & Reversible), Canton, O.
 Columbia Plow Works, Copake Iron Works, N.Y.
 Cowley, W. A. & Son (Reversible), Stamford, Conn.
 Deere & Co., Moline, Ill.
 Eddy, W. Plow Co. (Hillside & Swivel), Greenwich, N. Y.
 Gowanda Agricultural Works, Gowanda, N. Y.
 Hall, Jas. H. Plow Co. (Hillside), Maysville, Ky.
 Hench & Dromgold Co., Inc. (Hillside), York, Pa.
 Leroy Plow Co. (Hillside & Flatland), Leroy, N. Y.
 Moline Plow Co., Moline, Ill.
 Munnsville Plow Co., Munnsville, N. Y.
 Oliver Chilled Plow Co. (Hillside), South Bend, Ind.
 Parlin & Orendorff Co., Canton, Ill.
 Robinson Chilled Plow Co. (Hillside & Reversible), Canandaigua, N. Y.
 Rock Island Plow Co., Rock Island, Ill.
 South Bend Chilled Plow Co. (Reversible, Hillside, etc.), South Bend, Ind.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Vulcan Plow Co. (Hillside), Evansville, Ind.
 Wiard Plow Co. (Hillside), Batavia, N. Y.

Plows (Wheel Walking)

Collins Co., Collinsville, Conn.
 Deere & Co., Moline, Ill.
 Hench & Dromgold Co. (Inc.), York, Pa.
 Messinger Mfg. Co., Tatamy, Pa.

Plugs (Automatic Boat)

Lane & DeGroot Co., 17 Battery pl., New York

Plugs (Bath & Basin)

Central Brass Mfg. Co. ("Cleveland"), 6203 Cedar av., Cleveland, O.
 Climax Specialty Co. ("Climax"), Elmira, N. Y.
 Crescent Mfg. Co., Scottsdale, Pa.
 Detroit Sanitary Supply Co., Detroit, Mich.
 Empire Brass Mfg. Co. ("Empire"), Lake av. nr Edgewater Park, N. W., Cleveland, O.
 Exeter Brass Works, Exeter, N. H.
 Federal-Huber Co., Fulton & Halstead, Chicago, Ill.
 Fries & Co., 89 Main, Buffalo, N. Y.
 Frost Mfg. Co., Kenosha, Wis.
 Glauber Brass Mfg. Co., 4917 Superior av., N E, Cleveland, O.
 Haydenville Co., Haydenville, Mass.
 Hoffman & Billings Mfg. Co., Milwaukee, Wis.
 Homer Brass Works (Inc.), 231 Race, Philadelphia, Pa.
 Humphreys Mfg. Co., Mansfield, O.
 Jenkins Mfg. Co. ("Rex"), 20 Vesey, New York
 McCambridge & Co., 1423 Walnut, Philadelphia, Pa.
 McDonald, A. Y. & Morrison Mfg. Co., Du-buque, Iowa
 Mechanical Rubber Co. ("Monarch"), 230 Randolph, Chicago, Ill.
 Mueller, H. Mfg. Co., Decatur, Ill.
 Mulconroy Co., Inc., 722 Arch, Philadelphia, Pa.
 Murdock Mfg. & Supply Co., 426 Plum, Cincinnati, O.
 Murphy Specialty Co. ("Murphy"), Milwaukee, Wis.
 Park & McKay Co., Detroit, Mich.
 Peck Bros. & Co., New Haven, Conn.
 Perkes, Chas. (Est. of), 627 Arch, Philadelphia, Pa.
 Standard Sanitary Mfg. Co., Pittsburg, Pa.
 Stebbins, E. Mfg. Co., Springfield, Mass.
 Street & Kent Mfg. Co., 45 Fulton, Chicago, Ill.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Trenton Brass & Machine Co., Trenton, N. J.
 Waterbury Mfg. Co., Waterbury, Conn.
 Weir & Craig Mfg. Co. ("W. & C. Mfg. Co."), 2421 Wallace, Chicago, Ill.
 Wise, J. B., Watertown, N. Y.
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Plugs (Boiler Flue)

Dame & Townsend Co., Cliff & Fulton, New York
 DONEGAN & SWIFT ("Swifts"), 6 Murray, New York. (See adv. index, end of book)
 Webb, Elsha & Son ("Handy"), 43 S Water, Phila., Pa.

Plugs (Brass)

American Injector Co., Detroit, Mich.
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Crescent Machine Co. (Radiator), 1152 Trumbull av., Detroit, Mich.
 LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)
 NATIONAL-ACME MFG. CO., 7500 Stanton av., S. E., Cleveland, O. (See adv. index & branch offices, end of book)
 National Tube Co. (also Cast Iron), Pittsburg, Pa.
 Sanitary Co. (Wash Tray, etc.), Cleveland, Ohio
 Trenton Brass & Machine Co. ("Trenton" Wash Tray), Trenton, N. J.
 Williams, D. T., Valve Co., 410 E. 8th, Cincinnati, O.
 Wolverine Brass Works, Grand Rapids, Mich.

Plugs (Conduit Sealing)

Phila. Electrical & Mfg. Co., 1234 N 31st, Phila., Pa.

Plugs (Expansion)

Yonkers Specialty Co., ("Metropolitan," Creosoted Wooden for Making Attachments to Walls), Yonkers, N. Y.

Plugs (Flush & Receptacle)

Adams, F. Electric Co., St. Louis, Mo.
 Bryant Elec. Co. ("Chapman"), Bridgeport, Conn.
 Crouse-Hinds Co., Syracuse, N. Y.
 Claney, J. R., Syracuse, N. Y.
 Cutter Electrical & Mfg. Co., 19th & Hamilton, Phila., Pa.
 Dale Co., 9th av & 13th, New York
 Electric Service Supplies Co., 1020 Filbert, Phila., Pa.
 GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 HART MFG. CO. ("Diamond H"), Hartford, Conn. (See adv. index, end of book)
 Hart & Hegeman ("H. & H."), Hartford, Conn.
 Hatzel & Buehler ("H. & B."), 571 5th av., New York
 Hubbell, Harvey (Inc.), Bridgeport, Conn.
 Irish, W. F. Elec. Co. ("Shamrock," Floor), 60 Cortlandt, New York
 Loeffelholz & Co. ("Gibbs," for Cars), Milwaukee, Wis.
 Machen & Meyer Electrical Mfg. Co. ("M. & M."), 12th & Buttonwood, Phila., Pa.
 Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
 Marshall Electric Co. ("Midget"), Boston, Mass.
 Novelty Electric Co. (Fibre), 50 N 4th, Phila., Pa.
 Pringle Electrical Mfg. Co. ("New Style"), 1906 N 6th, Phila., Pa.
 Russell & Stoll Co., 48 Cliff, New York
 Stanley & Patterson ("Simplex"), 23 Murray, New York
 Trumbull Electric Mfg. Co., Plainville, Conn.

Plugs (Fusible)

American Injector Co., Detroit, Mich.
 Ashcroft Mfg. Co., 85 Liberty, New York
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crane Valve Co., Bridgeport, Conn.
 Darling Pump & Mfg. Co., Williamsport, Pa.
 Duluth Brass Works, West Duluth, Minn.
 Farnan Brass Works, Cleveland, O.
 Fewlass-Leen Brass & Iron Co., Cincinnati, O.
 General Fire Extinguisher Co., Providence, R. I.
 Glasgow Iron Works & Supply Co. ("Phillips"), 28 West, New York
 Haines, Jones & Cadbury Co., 1136 Ridge av., Phila., Pa.
 Haydenville Co., Haydenville, Mass.
 Hills-McCanna Co., 128 E Kinzie, Chicago, Ill.
 Hoffman, B. Mfg. Co., 257 6th, Milwaukee, Wis.
 Illinois Malleable Iron Co., 30 W Monroe, Chicago, Ill.
 Kelly & Jones Co., Pittsburg, Pa.
 Luce, Chas. T., Co. ("Robinson Standard"), 160 Congress, Boston, Mass.
 LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 McNab & Harlin Mfg. Co., 56 John, New York
 National Supply Co., Toledo, O.
 Ohio Injector Co., Wadsworth, O.
 Perkes, Charles (Est. of), 627 Arch, Phila., Pa.
 Pittsburg Valve, Foundry & Construction Co., 26th & A. V. R'y, Pittsburg, Pa.
 Powell, Wm. Co., 2525 Spring Grove av., Cincinnati, O.
 Queen City Brass & Iron Works, Spring Grove & Garrard avs., Cincinnati, O.
 Star Brass Mfg. Co., 108 E Dedham, Boston, Mass.
 Thomas Brass & Iron Co., Waukegan, Ill.
 Walworth Mfg. Co. ("Cole's" Fusible Boiler), Boston, Mass.

Plugs (Locomotive Steam Chest)

Snyder Railway Specialty Co. ("Snyder" Automatic), Pittsburg, Pa.

Plugs (Ordinary Attachment)

Benjamin Electric Mfg. Co. ("Wizard"), 40 W Jackson boul., Chicago, Ill.
 Bryant Electric Co., Bridgeport, Conn.
 Crouse-Hinds Co., Syracuse, N. Y.
 Electric Goods Mfg. Co. ("Howes"), Boston, Mass.
 Freeman, E. H. Electric Co., Trenton, N. J.
 Hubbell, Harvey (Inc.), Bridgeport, Conn.

Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
 Marshall Electric Co. ("M-S"), Boston, Mass.
 Mercer Electric Mfg. Co., Trenton, N. J.
 Palste. H. T. Co. ("Pushin"), 32d & Arch, Pass & Seymour, Solvay, N. Y. Phila., Pa.
 Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
 Stanley & Patterson ("New Code"), 23 Murray, New York
 Tregoning Electric Mfg. Co., Cleveland, O.

Plugs (Paper Mill)

Peters', Jno. M. Sons (Wood), Bleecker, New York

Plugs (Smoke Testing)

Kemp, C. M. Mfg. Co. ("Climax," "Desper"), 401 E. Oliver, Baltimore, Md.

Plugs (Soil Pipe Testing)

Clark Bros. ("Acme"), 218 S. 12th, Phila., Pa.
 Desper, H. A., Worcester, Mass.
 Drummond, M. J. & Co., 182 B'way, New York
 Illinois Malleable Iron Co., 515 Diversey boul., Chicago, Ill.
 Kemp, C. M., Mfg. Co. ("Climax," "Desper"), 401 E. Oliver, Baltimore, Md.
 N. J. Plumbing Specialties Co. ("Duplex," "Simplix"), Hoboken, N. J.
 Smith, E. L., & Co. ("Cooper"), 195 Fort Hill s., Boston, Mass.

Plugs (Spark)

American Coil Co. (Double Insulated Mica Cored), Foxboro, Mass.
 American Machine Mfg. Co. ("Perfection"), South Braintree, Mass.
 Anderson Spark Plug Co., 100 Boylston, Boston, Mass.
 Anderson, J. C. Mfg. Co., Jersey City, N. J.
 Arc-Toledo Spark Plug, 140 Michigan, Toledo, O.
 Atlantic Electrical Co., Amesbury, Mass.
 Automobile Equipment Co. (The), 260 Jefferson av., Detroit, Mich.
 Automobile Supply Co., Mich. bldg., Chicago, Ill.
 Auto & Power Appliance Co., Cleveland, O.
 Barber, A. S., Brooklyn, N. Y.
 Bosch Magneto Co. ("Bosch"), 160 W 56th, New York
 Bradley, C. E. Motor Co., 268 Diamond, Phila., Pa.
 Brennan Mfg. Co., Syracuse, N. Y.
 Byrne-Kingston Co. ("Kingston"), Kokomo, Ind.
 Canton Automobile Supply Co. ("Kankaroo"), Canton, O.
 Champion, Albert Co. ("Nieuport," Imported), 541 Tremont, Boston, Mass.
 Cleveland Spark Plug Co., Cleveland, O.
 Columbus Screw & Machine Co., 244 Kaiser, Columbus, O.
 Dayton Electrical Mfg. Co. ("Apple" & "Climax"), Dayton, O.
DELTA MFG. CO., Bloomfield, N. J.
 De Lux Mfg. Co., 1515 Seneca, Buffalo, N. Y.
 Diamond Porcelain Co. (Porcelain), Trenton, N. J.

Doherty, H. B., Binghamton, N. Y.
 Dow Portable Electric Co., Braintree, Mass.
 Duplex Ignition Co. (Inc.), ("Duplex"), 307 36th, New York
 Elbridge Electrical Mfg. Co. ("Elbridge"), Elbridge, N. Y.
 Electric & Auto Co. ("Orswell"), Amesbury, Mass.

Etna Electric Works (Mica), 145 E. 23d, New York
 Fischer Ignition Co., Cincinnati, O.
 Geer, Harry R. Co., 1017 Pine, St. Louis, Mo.
 Gerson-Carey Co., Lansing, Mich.
 Grant Mfg. & Mach. Co. ("Empire"), Bridgeport, Conn.
 Hamblin El. Co., 25 Calendar, Providence, R. I.
 Hardy, R. E. Co. ("Sta-Rite"), ("Gotham"), 25 W 42d, New York
 Hartford Machine Screw Co. (Automobile), Hartford, Conn.
 Herz & Co., 203 Lafayette, New York
 Hubbell, Harvey (Inc.), Bridgeport, Conn.
 Igniter Appliance Co., Cleveland, O.
 Jacobson-Brandow Co., Pittsfield, Mass.
 Jeffrey-De Witt Co., "Reliance" Spark in Water, Newark

Kent Spark Plug Co. ("Kent" Automatic), Brooklyn, N. Y.
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 McCanna Mfg. Co., 56 N Jefferson, Chicago, Ill.
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 Miller Mfg. Co., Peekskill, N. Y.
 Mosler, A. R. & Co. (Inc.) ("Spit-Fire"), 163 W 29th, New York
 Never-Miss Spark Plug, Lansing, Mich.

Oakes & Dow Co. ("Comet"), 15 Chardon, Boston, Mass.
 Orswell Igniter Co., 95 Milk, Boston, Mass.
 Pittsfield Spark Coil Co. ("Jewell" Mica), Dalton, Mass.

Post & Lester Co. ("E. I. C."), Hartford, Conn.
 Rajah Auto Supply Co., Bloomfield, N. J.
 Roche, William, Jersey City, N. J.
 Rubay, Leon Auto Ignition Supply Co., 229 W 54th, New York

Schug Electric Mfg. Co., Detroit, Mich.
 Seidler-Miner Electric Co., 205 Jefferson av., Detroit, Mich.

Shain, Chas. D., 70 Murray, New York
 Splitdorf, C. F., 261 Walton av., New York
 Springtight Terminal Co. ("New Era"), Lansing, Mich.

Taylor-Fountain Eng. Co. ("Morse"), 10 Commercial av., Newark, N. J.

Thomas, W. K., 1876 B'way, New York
 Tritt Electrical Mfg. Co., South Bend, Ind.
 Triumph Engineering Co., 1046 Herkimer, Brooklyn, N. Y.

Twentieth Century Mfg. Co., 19 Warren, New York
 Uncas Specialty Co., Norwich, Conn.
 United Electrical Mfg. Co. ("Crescent"), 1 B'way, New York

Wachman, Robert, 372 Michigan av., Detroit, Mich. ("Wachman" Sure Fire)

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Menchen, Jos. Electric Co., 360 W 50th, New York

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Pennefather, J. S., 105 W 39th, New York

Russell & Stoll Co., 48 Cliff, New York

Stanley & Patterson ("Fielding," "Hubbell"), 23 Murray, New York

Superior Electric Co., 520 W 40th, New York

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Plugs (Tie)

Porter-Morse (Elm, Cedar & Oak), Saginaw, Mich.

Plugs (Wall)

(See Wall Plugs)

Plugs (Wood)

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 Michigan Bung Co., Detroit, Mich.
 Peters', Jno. M. Sons, Bleecker, New York
 Portland Cooperage Co., Portland, Me.
 Redlich Mfg. Co. (All Kinds), 2 Oak, Chicago, Ill.
 Sommers, Jno. Son, Newark, N. J.
 U. S. Bung Mfg. Co., 48 S 2d, Brooklyn, N. Y.

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 Goodyear Tire & Rubber Co., Akron, O.
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 India Rubber Co., New York
 Morgan & Wright (Inc.), Detroit, Mich.
 Parks, F. B., Grand Rapids, Mich.
 Pneumatic Tire Plug Co., Danbury, Conn.
 Tingler, Charles O. & Co., Rahway, N. J.

Plumb Bobs

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 Brown & Sharpe Mfg. Co. ("Mercury"), Providence, R. I.

Chalfant Mfg. Co., Lancaster, Pa.
 Crescent Novelty Mfg. Co. (Lead), 703 S B'way, St. Louis, Mo.

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Wrightsville Hardware Co., Wrightsville, Pa.

Plumbago

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McCullough-Dalzell Crucible Co., Pittsburg, Pa.

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OSBORN MFG. CO., 5401 Hamilton av., N. E., Cleveland, O. (See adv. index, end of book)

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Salomon, L. A. & Bro., 216 Pearl, New York

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SPRINGFIELD FACING CO., Springfield, Mass. (See adv. index, end of book)

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Stevens, Frederic B., Detroit, Mich.

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United States Graphite Co., Saginaw, Mich.

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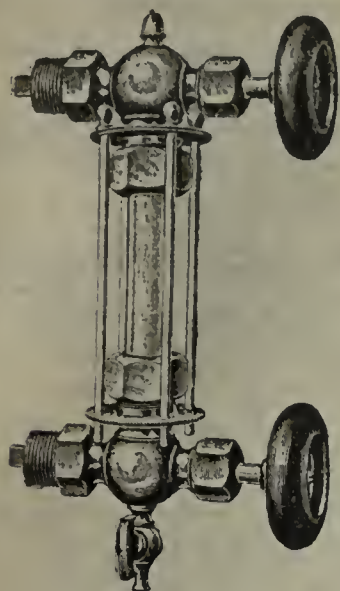
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(See Bracket Manufacturers)

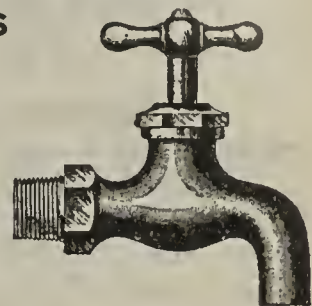
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Clow, Jas. B. & Sons, 342 Franklin, Chicago, Ill.

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Pickel Marble & Granite Co., St. Louis, Mo.

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Shaver, Jas., Granite & Marble Co., 506 7th, Milwaukee, Wis.

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Fidelity Pottery Co., Trenton, N. J.

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Mercer Pottery Co., Trenton, N. J.

Monument Pottery Co., Trenton, N. J.

National Pottery Co., Evansville, Ind.

Peerless Pottery Co., Phila., Pa.

Perth Amboy Pottery Works, Perth Amboy, N. J.

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Standard Sanitary Pottery Co., Elizabeth, N. J.

Trenton Fire Clay & Pottery Co., Trenton, N. J.

Trenton Pottery Co., Trenton, N. J.

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(See also Rubber Manufacturers)

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(Est. 1855.) (See adv. index, end of book)

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Tay, Geo. H. Co.
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SACRAMENTO—Miller-Enwright Co.
SAN DIEGO—Western Metal Supply Co.
SAN FRANCISCO—California Plumbing Supply
Co.
Crane Co. (of Chicago), Est. 1855. (See
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Haines, Jones & Cadbury Co. (of Phila.,
Pa.), 848 Bryant
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Kinney, R. W. Co., 584 Howard
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Schafer, E. G. & Co., 424 11th, N W
Somerville, Thos. Co., 316 13th, N W

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JACKSONVILLE—Hubbard, S. B. Co.

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1855.) (See adv. index, end of book)
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Lowry Co.
SAVANNAH—Haines, Jones & Cadbury Co. (of
McKenna, J. H. Phila., Pa.)

HAWAII.

HONOLULU—Honolulu Iron Works

ILLINOIS.

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Michigan
Clow, Jas. B. & Sons, 344 Franklin
Crane Co. (Est. 1855), 519 S Canal. (See
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Deschauer, Stephen, 334 Blue Island av
Federal-Huber Co., Halsted & Fulton
Geary, Andrew J., 9275 S Chicago, av
Henion & Hubbell, 61 N Jefferson
Illinois Malleable Iron Co., 515 Diversey
Kellogg-Mackay Co., 19 W 18th boul
National Plumbing & Heating Supply Co.,
5748 State
Quinn Supply Co., 120 Southwestern av
Republic Mfg. Co., 123 W Washington
Weil Bros., 133 W Lake
Weir & Craig Mfg. Co., 2439 Wallace
Western Plumbing Supply Co., 20 S Des-
plaines
Whitney & Ford, 4315 Cottage Grove av
Wolf, L. Mfg. Co., 117 W Lake
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FORT WAYNE—P. & H. Supply Co.
INDIANAPOLIS—Central Supply Co., 209 W
Washington
Indiana Supply Co., 41 N Capital av
Knight & Jillson Co.
MUNCIE—Keiser, Geo. & Co.
Knight & Jillson Co.
TERRE HAUTE—Crane Co. (Of Chicago, Ill.)
(Est. 1855.) (See adv. index, end of book)
UNION CITY—Knapp Supply Co.

IOWA.

CEDAR RAPIDS—Cedar Rapids Pump Co.
Chandler Pump Co.
DAVENPORT—Midland Supply Co.
DES MOINES—Crane Co. (Of Chicago, Ill.)
(Est. 1855.) (See adv. index, end of book)
Kurtz, L. H. Co.
DUBUQUE—McDonald, A. Y. & Morrison Mfg.
Morrison & Kretschmer Mfg. Co. Co.
FORT DODGE—Leighton Supply Co.
SIOUX CITY—Crane Co. (of Chicago), Est.
1855. (See adv. index, end of book)

KANSAS.

WICHITA—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)

KENTUCKY.

LOUISVILLE—Ahrens & Ott Mfg. Co. (Inc.)
Lalb Co.
Vogel, P. A. & Son

LOUISIANA.

NEW ORLEANS—Ahrens & Ott Mfg. Co. (of
Louisville, Ky.), Baronne & St. Joseph
Fairbanks Co. (of New York City), 610
Manion & Co., 622 Baronne Canal

MAINE.

PORTLAND—Blake, W. L. & Co.
Smith & Abbott Co.

MARYLAND.

BALTIMORE—Adt, John B.
Central Metal & Sup. Co., 609 E Lombard
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)
Crook-Horner Co., 17 E Pratt
Cuyler & Mohler, 611 William
Krauss & Roberts, 1316 E Balto
Robertson, Jas. Mfg. Co., 14 S. Hanover
Southern Supply Co., Calvert & Saratoga

MASSACHUSETTS.

BOSTON—Barrett, Jas. Mfg. Co., 48 Pearl
Braman-Dow & Co., 245 Causeway
Brown-Wales Co., 69 Purchase
Butler, Edmund F. & Co., 76 Pearl
Crane Co. (of Chicago), Est. 1855 (See adv.
index, end of book)
Dalton-Ingersoll Mfg. Co., 169 High
Dececo Co., 155 High
Estabrook's, R. Sons, 204 W 1st, S. B.
Gallison, Wm. H. Co., 36 Oliver
Gilchrist, Geo. E. Co., 106 High
Hercules Iron & Supply Co., Commercial &
Hanover
Hubbard, W. B. & Sons Co., 176 Oliver
Locke, Stevens & Co., 94 Warrenton
Sanitary Fixture Co., 293 Congress
Smith & Anthony Co., 48 Union
Sumner & Gerald Co., 287 Congress
Thompson-Durkee Co., 87 High
Webb, F. W. Mfg. Co., 52 Elm
Young, Jos. H., 82 High
CAMBRIDGE—Cambridge Plumbing Supply Co.
LYNN—Bourneuf, Louis, Corp'n
NEW BEDFORD—New Bedford Boiler & Ma-
SOMERVILLE—Ideal Supply Co. chine Co.
SPRINGFIELD—Hitchcock Supply Co.
New England Plumbing Supply Co.
WORCESTER—Baker Lead Mfg. Co.
Colwell Lead Co.

MICHIGAN.

DETROIT—Detroit Lead Pipe & Sheet Lead
Works
Harvey's, A. Sons Mfg. Co. (Ltd.)
Kimball-Eisenberg Co., 216 Jefferson av
Park & McKay Co., 55 Bagley av
Sales, Murray W. Co., 76 Jefferson av
VOELKNER & HARRY MANU-
facturing Co., 125 Woodbridge, W Detroit.
Mich. (See adv. index end of book)
Walker Mfg. & Supply Co., 136 W Larned
GRAND RAPIDS—Ferguson Supply Co. (Ltd.)
Grand Rapids Supply Co.
KALAMAZOO—Quinn Supply Co.
LANSING—Michigan Supply Co.
MENOMINEE—Emerson-Corbin Supply Co.

MINNESOTA.

DULUTH—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
Duluth Plumbing Supplies Co.
MINNEAPOLIS—Central Supply Co., 312 3rd
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)
Kellogg-Mackay Co.
National Mfg. & Supply Co.
ST. PAUL—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
Western Supply Co.

MISSOURI.

KANSAS CITY—Crane Co. (of Chicago), Est.
1855. (See adv. index, end of book)
Kansas City Pump Co.
Reeves Supply Co.
Southwest Plumbing Supply Co.
United States Water & Steam Supply Co.
Young, W. B. Supply Co.
ST. JOSEPH—Horgan Supply Co.
ST. LOUIS—Cahill-Swift Mfg. Co., 20 S 12th
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)
National Plumbing Supply Co., 110 S 12th
Nelson, N. O. Mfg. Co., 10th & Chestnut
Rumsey, L. M. Mfg. Co., 806 N. Second
Rumsey & Sikemeier Co., 1900 Pine
SPRINGFIELD—Cooper, H., Jr.

NEBRASKA.

LINCOLN—Cooper & Cole Bros.
Western Supply Co.
OMAHA—Crane Co. (of Chicago), Est 1855.
(See adv. index, end of book)
United States Supply Co.

NEW HAMPSHIRE.

MANCHESTER—Manchester Supply Co.

NEW JERSEY.

BAYONNE—Bayonne Supply Co.
CAMDEN—Enllmer, A. J.
Ronalds & Johnson Co.
EAST ORANGE—Orange Supply Co.
ELIZABETH—Elizabeth Hardware Co.
GUTTENBURG—Herrmann, F. W.
JERSEY CITY—Jersey City Supply Co.
Perkins, Arthur L., 283 Warren

NEWARK—Crane, Moses W. & Co.
Egbert, W. V. & Co.
Gray, R., Jr.
Macknet & Doremus Co.
Newark Supply Co.
Roe & Conover
PATERSON—McNab & Harlin Mfg. Co.
TRENTON—Warren, Baiderston & Co.
WEEHAWKEN—Berger, Edw. W. & Bro.

NEW YORK.

ALBANY—Hoy & Co.
BUFFALO—Case, W. A. & Son Mfg. Co., 31
Dixon & Ballou, Ellicott & Carroll Main
Hamill, D. L., 60 Delaware av
Plumbers' & Steamfitter's Supply Co., 104
Schafer & Co., 226 Ellicott Pearl
NEW ROCHELLE—Dimock & Fink Co.

NEW YORK CITY.**Borough of Brooklyn.**

BROOKLYN—American Plumbing Mfg. Co.,
64 Atlantic av
Burr Mfg. & Supply Co., 100 Lexington av
Clark, John F., 1150 Myrtle av
De Laney, Thos. M., 576 Atlantic av
Jacobs, Geo. P. & Co., B'way & S 9th
Knight, Thos. G. Co., 52 Myrtle av
McElraevy & Hauck Co., 440 B'way
Read, H. P. Lead Works, 32 Sanford
Ronalds & Johnson Co., 43 Boerum pl
Sackin, B., 632 B'way
Smyth-Donagan Co., 247 St Marks av
Spencer & Haviland, 174 Portland av
Waters & Miller, 5 McKibbin

Boroughs of Manhattan & Bronx.

NEW YORK—Adee, Fred Co., 44 Cliff
Beals, H. H., 51 Cliff
Behrer, Arnold & Sons, 273 Pearl
Behrer & Co., 81 Beekman
Beith & Reilly Co., 134 Lincoln av
Billo, Geo. H., 82 John
Campbell Supply Co., 570 Columbus av
Central Plumbers Supply Co., 252 Pearl
Colwell Lead Co., 109 Lafayette
CORNELL & UNDERHILL, 47
Beach. (See adv. index, end of book)
Crane Co. (of Chicago), Est. 1855, 490
Cherry. (See adv. index, end of book)
Cushing, Thos. F. Co., 40 E 21st
Dimock & Fink Co., 220 E 125th
Du Bois, F. N. & Co., 243 9th av
Federal-Huber Co., 244 5th av
Glauber, Sam. S. (Inc.), 243 E 79th
Harlem Supply Co. (Inc.), 121 E 124th
Hotchkiss, Vail & Garrison Co., 149 E 35th
Hussey, W. H. & Son, 148 W 35th
Keating, F. W. Co., 446 Water
Kenney Mfg. Co., 254 4th av
Lederman, Sam'l, 562 Amsterdam av
Locke & Smith Co., 103 W 37th
McMANN & TAYLOR, 104 John.
(See adv. index, end of book)
McNab & Harlin Mfg. Co., 56 John
McShane, Wm. Co., 711 6th av
Malbin, Mayer, 922 3d av
Mayor, Lane & Co., 128 White
Meyer-Sniffin Co., 11 W 36th
Mott, J. L. Iron Works, 118 5th av
Murray, Jno. A., 310 W 39th
Nason Mfg. Co., 71 Fulton
Peck Bros. & Co. (of New Haven, Conn.),
27 W 42d
Read, H. P. Lead Works, 160 E 56th
Ronalds & Johnson Co., 54 Cliff

SIMMONS, JOHN CO., 108 Centre
(See adv. index, end of book)
Smolka, Edw. & Co. (Inc.), 231 E 33d
Standard Plumbing Supply Co., St. Anns
av & 159th

STEIN, HENRY (Mrs.' Agent), 48
Cliff. (See adv. index, end of book)
United Plumbers' Supply Co., 181 E 108th
Vogel, Ig., 1518 1st av
Walsh & Hartwig (Inc.), 217 E 58th
(End of New York City)

ROCHESTER—Hunting Co.
Sloan, Samuel & Co., 67 Exchange
SYRACUSE—McClure, R. C. Co.
Pierce, Butler & Pierce Mfg. Co.
TROY—Aird-Don Co.
UTICA—Miliar, Chas. & Son Co.
WATERTOWN—Hunting Co.
Weekes, Jno. & Son Co.
YONKERS—Yonkers Plumbing Supply Co.

NORTH DAKOTA.

FARGO—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)

OHIO.

CANTON—Allman, W. H., Co.
CINCINNATI—Crane Co. (of Chicago), Est.
1855. (See adv. index, end of book)
McDonald, Jas. & Son
Merkel Bros., Canal & Jackson.
Merrie, Hugh, 124 E 8th
Murdock Mfg. & Supply Co., 426 Plum
CLEVELAND—Cleveland Plumbing Supply Co.,
51 Vincent av, N E
Fisher, E. W., Co., 811 Superior av, N. E.
Kennedy Co., 1310 Huron rd., S E
Sanitary Co.
Standard Mfg. Co. (of Pittsburgh, Pa.), 648
Welker Supply Co. Huron rd, S E
COLUMBUS—Ascher Supply Co.
Columbus Brass Co.
Columbus Supply Co.
Potts, B. D.
Scioto Valley Supply Co.
Westwater Supply Co.
DAYTON—Dayton Supply Co.
MANSFIELD—Humphries Mfg. Co.
TOLEDO—American Plumbers' Supply Co.
Grosswiller, Jos. F. Supply Co.
National Supply Co.

OKLAHOMA.

OKLAHOMA CITY—Crane Co. (of Chicago),
Est. 1855. (See adv. index, end of book)

OREGON.

PORTLAND—Crane Co. (of Chicago), Est.
1855. (See adv. index, end of book)
Gauld Co.
Kline, M. L.

PENNSYLVANIA.

ALTOONA—Standard Supply & Equipment Co.
(See Phila., Pa.)
LANCASTER—Sheet Metal & Supply Co.
PHILADELPHIA—Berkstresser, Thos. J. Co.
Blessing, C. A., 6th & Randolph
Cooper, Wm. S. Brass Works, 437 N 12th
Crane Co. (of Chicago), Est. 1855, 22 S
5th. (See adv. index, end of book)
Fleck Bros. Co., 44 N 5th
Ford & Kendig Co., 1428 Callowhill
Froehlich Bros., 142 N 7th
Haines, Jones & Cadbury Co., 1128 Ridge
av
Haynes-Thompson Co., 1705 Chestnut
Keystone Supply & Mfg. Co., 927 N 9th
McCambridge & Co. (Ltd.), 1423 Walnut
Perkes, Chas. (Est. of), 627 Arch
Raineer, C. J. & Co., 518 Arch
Ronalds & Johnson Co. (of New York), 139
N 7th
Savill, Thos. & Sons, c 11th & Wood
Shuster Foundry Co., 41 N Franklin
Standard Supply & Equipment Co. (Jobbers),
1710 Market
Walls, Owen & Stambach Co., 1041 Ridge
av
PITTSBURG—Anchor Sanitary Co., 123 3d av
Bailey-Farrell Mfg. Co., 3d av & Ross
Bowman Supply & Mfg. Co., 890 Main
Duquesne Sanitary Co., 2d av. & Cherry al
Fort Pitt Supply Co., 332 2d av
Harris Pump & Supply Co., 320 2nd av
Kelly & Jones Co., 135 Water
Pittsburg Supply Co., 439 Water
Standard Mfg. Co., 949 Penn av
Standard Supply & Equipment Co., 1151
Liberty av
Union Mfg. & Supply Co., Scott pl
SCRANTON—McClure, R. C. Co.
Weeks, R. E. Co.
Wyoming Valley Supply & Mfg. Co.
WILKES-BARRE—Pennsylvania Supply Co.
Wyoming Valley Supply & Mfg. Co.
YORK—Small, P. A. & S. Co.

RHODE ISLAND.

PROVIDENCE—Peck, Benj. T.
Phillips Lead & Supply Co.
Providence Plumbing Supply Co.
Tillinghast, L. H. Supply Co.

SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co.
Cameron & Barkley Co.

SOUTH DAKOTA.

WATERTOWN—Crane Co. (of Chicago), Est.
1855. (See adv. index, end of book)

TENNESSEE.

CHATTANOOGA—Fritts, Tom, Hardware Co.
James Supply Co.
KNOXVILLE—Southern Brass & Iron Co.
MEMPHIS—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
NASHVILLE—Nashville Plumbers' & Mill Sup-
ply Co.

TEXAS.

DALLAS—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
FORT WORTH—Gamer Co.

UTAH.

SALT LAKE CITY—Crane Co. (of Chicago),
Est. 1855. (See adv. index, end of book)
Nelson, Jos. Supply Co.

VERMONT.

RUTLAND—Lincoln Iron Works

VIRGINIA.

HAMPTON—Booker, H. R. & Co.
NORFOLK—Virginia-Carolina Supply Co.
RICHMOND—Bargamin, G. & A. Co.
McGraw-Yarbrough Co.
Virginia-Carolina Supply Co.

WASHINGTON.

SEATTLE—Bowles Co.
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)
Hambach, A. Co.
SPOKANE—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
Holley-Mason Hdwe. Co.
Hughes & Co.
TACOMA—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
Walsh & Gardner

WEST VIRGINIA.

WHEELING—Trimble & Lutz Supply Co.

WISCONSIN.

GREEN BAY—Murphy Supply Co.
LA CROSSE—La Crosse Plumbing Supply Co.
Roosevelt, W. A. Co.
MILWAUKEE—Dengel, F. R. Mfg. Co., 336
Hoffmann, B. Mfg. Co., 257 6th 4th
Hoffmann & Billings Mfg. Co.
Rom, Rob't Co., 1023 St. Paul av
Rundle-Spence Mfg. Co., 63 2d
Wisconsin Plumbing & Heating Supply Co.

Plumbers' Torches

(See Torches, Various Kinds)

Plumbers' Washers

(See Washers, Various Kinds)

Plumbers' Wood Work

(For jobbers of this trade see Plumbers' Sup-
plies, Jobbers)

American Sanitary Works, 320 Broadway, New
York
Ascher Supply Co., Columbus, O.
Becker Mill Co., The (Flne), Mariette, Ohio
Berglass, M. P. Plumbing Supply Co., Brook-
lyn, N. Y.
Buckeye Tank & Seat Co., Pittsburg, Pa.
Budde, Jos., 577 Mission, San Francisco, Cal.
Burlington Venetian Blind Co. (Water Closet
Seats Only), Burlington Vt.
Burrows, Wm. Mfg. Co., Brooklyn, N. Y.
Central Closet Mfg. Co., Holland, Mich.
Century Sanitary Mfg. Co., Eastwood, N. Y.
Church, C. F. Mfg. Co., Holyoke, Mass.
Climax Sanitary Co. ("Climax" Lock Joint),
Detroit, Mich.
Columbus Brass Co. (Bent Wood Seats &
Simplex Tanks), Columbus, O.
Coyne & Delaney, 303 Rodney, Brooklyn, N. Y.
Day Metallic Co., Detroit, Mich.
Deweese, S. T. Mfg. Co., Chattanooga, Tenn.
Douglas, Jno. Co., 900 Poplar, Cincinnati, O.
Eclipse Mfg. Co., North Girard, Pa.
Eichman & Co., Baltimore, Md.
Emery, W. S. ("Acme"), 78 Cliff, New York
Federal-Huber Co., Halsted & Fulton, Chicago,
Ill., & 244 5th av, New York
Ferguson Supply Co., Grand Rapids, Mich.

Findelsen & Kropf Mfg. Co., W 21st pl c S
Rockwell, Chicago, Ill.
Globe Furniture Co., Northville, Mich.
Hale & Kilburn Mfg. Co., Phila., Pa.
Heap, Wm. and Sons (Seats, Tanks, Low-down
Tanks, Export English Pattern), Grand
Haven, Mich.
Ideal Mfg. Co. (Seats & Tanks), 546 Franklin,
Detroit, Mich.
Knott-Van Arnam Mfg. Co., Fort Wayne, Ind
Leclair Mfg. Co., Edwardsville, Ill.
Lipp, Louis Co., Mitchell av & B. & O. S. W.
Ry., Cincinnati, O., & 104 High, Boston,
Mass.
Marcellus, C. N. & Co., Chillicothe, O.
Michigan Sanitary Mfg. Co., Muskegon, Mich.
Milford Sanitary Mfg. Co., Milford, Mich.
Miller-Hubbard Mfg. Co., Sturgis, Mich.
Never-Split Seat Co., Evansville, Ind.
New York Dimension Supply Co., Evansville,
Ind.
Olmstead-Thomson Co., New Britain, Conn.
Park & McKay Co., Detroit, Mich.
Peerless Tank & Seat Co., Evansville, Ind.
Pfau Mfg. Co., 536 Reading rd., Cincinnati, O.
Pierce, Butler & Pierce Mfg. Co., Syracuse,
N. Y.
Plumbers Cabinet Co., Cumberland, Ky.
Plumbers Novelty Mfg. Co., Plymouth, Ind.
Plumbers' Woodwork Co. ("Badger"), Algoma,
Riverside Mfg. Co., Reading, Pa. Wis.
Sanitary Mfg. Co., Hamilton, O.
Shwab Bros. Co., 42 Cliff, New York
STEIN, HENRY, 48 Cliff, New York,
(See adv. index, end of book)
Swain Mfg. Co., 7th & Morris, Phila., Pa.

*Plumbing Fixtures

WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of
book)

Pneumatic Air Hoists

(See Pneumatic Hoists)

Pneumatic Alligator Riveters

Allen, Jno. F., 37 Gerard av, New York

Pneumatic Baby Drillers

Kotten, H. G., 32 Cortlandt (Hudson Termi-
nal bldg), New York. Factory, Marion,
N. J.

Pneumatic Beading Hammers

Chicago Pneumatic Tool Co. ("Boyer"), Fisher
bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co. ("Cleveland"),
6410 Hawthorne av, Cleveland, O.
Columbus Pneumatic Tool Co. ("Dunlap"),
Flue Beading, Columbus, Ohio
Dayton Pneumatic Tool Co. ("Green" & "Day-
ton"), Dayton, O.
HELWIG MFG. CO. ("Helwig"), St.
Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"),
Pneumatic Tool), 1307 Michigan av, Chicago,
Ill.
INGERSOLL-RAND CO., 11 B'way,
New York (See adv. index & branch of-
fices, end of book)
MANHATTAN TOOL CO., care E. W.
Bliss Co., 19 Adams, Brooklyn, N. Y.
Pneumatic Appliance Co., 149 B'way, New
York
Oldham, Geo., & Son, Frankford, Phila., Pa.
Standard Railway Equipment Co., St. Louis,
Mo.

*Pneumatic Belly Pounders

INGERSOLL-RAND CO., 11 Broadway,
New York. (See adv. index & branch of-
fices, end of book)

*Pneumatic Boiler Makers' Hammers

HELWIG MFG. CO. ("Helwig"), St.
Paul, Minn. (See adv. index, end of book)

*Pneumatic Boiler Riveters

ALLEN, JOHN F. (Percussion & Compres-
sion) 370 Gerard av, New York. (See
adv. index, end of book)

Pneumatic Bolt Nippers

Chicago Pneumatic Tool Co., Fisher bldg, Chi-
cago, Ill.
HELWIG MFG. CO. ("Helwig"), St.
Paul, Minn. (See adv. index, end of book)

*Pneumatic Boring Machines

HELWIG MFG. CO. ("Helwig," for
Metal or Wood), St. Paul, Minn. (See adv.
index, end of book)
INGERSOLL-RAND CO. (for Metal or
Wood), 11 B'way, New York. (See adv.
index & branch offices, end of book)

Pneumatic Breast Drills

Chicago Pneumatic Tool Co. ("Dutley"), Fisher
bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co. ("Cleveland")
Rotary), 6410 Hawthorne av, Cleveland, O.
Empire Engine & Motor Co. ("Empire"),
Orangeburg, N. Y.
HELWIG MFG. CO. ("Helwig"), St.
Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307
Michigan av
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch
offices, end of book)
Pneumatic Appliance Co., 149 B'way, New
York

Pneumatic Casting Cleaners

(See Pneumatic Scaling Hammers)

Pneumatic Center Grinders

Empire Engine & Motor Co. ("Empire"),
Orangeburg, N. Y.

Pneumatic Chain Hoists

Curtis & Co., Mfg. Co., St. Louis, Mo.
Empire Engine & Motor Co. ("Empire"),
Orangeburg, N. Y.
HELWIG MFG. CO. ("Helwig"), St.
Paul, Minn. (See adv. index, end of book)

Pneumatic Chipping & Calking Hammers

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)
Chicago Pneumatic Tool Co. ("Boyer," "Kel-
ler"), Fisher bldg, Chicago, Ill.
CLAYTON AIR COMPRESSOR WKS.,
115 B'way, New York. (See adv. index &
branch offices, end of book)
Cleveland Pneumatic Tool Co. ("New Cleve-
land"), 6410 Hawthorne av, Cleveland, O.
Columbus Pneumatic Tool Co. ("Dunlap"),
Columbus, Ohio
Dayton Pneumatic Tool Co. ("Green" & "Day-
ton"), Dayton, O.
HELWIG MFG. CO. ("Helwig"), St.
Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"),
1307 Michigan av, Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)
Kotten, H. G. (For Stone), 32 Cortlandt
(Hudson Terminal bldg), New York. Fac-
tory, Marion, N. J.
LIDLAW-DUNN-GORDON CO., 115
B'way, New York; Works: Cincinnati, O.
(See adv. index & branch offices, end of book)
Leyner, J. Geo. Engineering Works Co., Lit-
tleton, Colo.
MANHATTAN TOOL CO., care E. W.
Bliss Co., 19 Adams, Brooklyn, N. Y.
Pneumatic Appliance Co., 149 B'way, New York
Oldham, Geo., & Son, Frankford, Phila., Pa.
Pittsburg Pneumatic Co., Canton, O.
Standard Railway Equipment Co., St. Louis,
Mo.

*Pneumatic Chisel Blanks

CLEVELAND PUNCH & SHEAR
Works Co., Cleveland, O. (See adv. index,
end of book)

*Pneumatic Cleaning Devices

CLAYTON AIR COMPRESSOR WKS.,
115 B'way, New York. (See adv. index &
branch offices, end of book)
LIDLAW-DUNN-GORDON CO., 115
B'way, New York; Works: Cincinnati, O.
(See adv. index & branch offices, end of book)

Pneumatic Compression Riveters

Albree, Chester B. Iron Works ("Pittsburg"),
Pittsburg, Pa.
ALLEN, JOHN F., 370 Gerard av, New
York. (See adv. index, end of book)
Chicago Pneumatic Tool Co., Fisher bldg, Chi-
cago, Ill.
Hanna Engineering Works, 820 Elston av, Chi-
cago, Ill.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)
Pittsburg Pneumatic Co., Canton, O.
Shepard Electric Crane & Hoist Co. ("Shep-
ard"), Montour Falls, N. Y., & 149
Broadway, New York
Slocumb, F. F. & Co. ("Caskey"), Wilmington,
Del.

Pneumatic Concrete Rammers

(See Pneumatic Sand Rammers)

Pneumatic Crane Motors

Empire Engine & Motor Co. ("Empire"),
Orangeburg, N. Y.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)

Pneumatic Cranes

(See Cranes, Pneumatic)

Pneumatic Despatch Tubes

(See Pneumatic Tubes)

Pneumatic Drift Bolt Drivers

Chicago Pneumatic Tool Co., Fisher bldg, Chi-
cago, Ill.

Pneumatic Drills

Albree, Chester B. Iron Works, Allegheny, Pa.
Baker-Churchill-Lee Co. ("Lee"), 907 Michigan
av, Detroit, Mich.
Chicago Pneumatic Tool Co. ("Little Giant,"
"Boyer," "Keller"), Fisher bldg, Chicago,
Ill.
CLAYTON AIR COMPRESSOR WKS.,
115 B'way, New York. (See adv. index &
branch offices, end of book)
Columbus Pneumatic Tool Co. ("Dunlap"), Co-
lumbus, O.
DALLETT, THOS. H. CO., 2303 York,
Phila., Pa. (See adv. index, end of book)
Dayton Pneumatic Tool Co. ("Dayton"), Day-
ton, O.
Empire Engine & Motor Co. ("Empire," for
Metal or Wood), Orangeburg, N. Y.
HELWIG MFG. CO. ("Helwig," Re-
versible), St. Paul, Minn. (See adv. index,
end of book)
Independent Pneumatic Tool Co. ("Thor"),
1307 Michigan av, Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)
LIDLAW-DUNN-GORDON CO., 115
B'way, New York; Works: Cincinnati, O.
(See adv. index & branch offices, end of book)
Leyner, J. Geo. Engineering Works Co., Lit-
tleton, Colo.
Oldham, Geo. & Son, Frankford, Phila., Pa.
Pittsburg Pneumatic Co., Canton, O.
Pneumatic Appliance Co., 149 B'way, New
York
Shaw, C. H. Pneumatic Tool Co., Denver, Colo.
Standard Railway Equipment Co., St. Louis,
Mo.

Pneumatic Dusters

(See Vacuum Cleaners)

*Pneumatic Emery Grinder

HELWIG MFG. CO. ("Helwig" Port-
able), St. Paul, Minn. (See adv. index,
end of book)

Pneumatic Feather Drills

(See Pneumatic Plug Drillers)

***Pneumatic Fire Alarms**

CLAYTON AIR COMPRESSOR WKS., 115 B'way, New York. (See adv. index & branch offices, end of book)
LAIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

Pneumatic Flue Cutters

Alliance Machine Co. ("McGrath"), Alliance, Ohio
 Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
 Draper Mfg. Co. ("McGrath"), Port Huron, Mich.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pneumatic Flue Expanders

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

Pneumatic Flue Rollers

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
 Independent Pneumatic Tool Co. ("Thor" Reversible), 1307 Michigan av., Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pneumatic Flue Welders

Alliance Machine Co. ("McGrath"), Alliance, O.
 Draper Mfg. Co. ("McGrath"), Port Huron, Mich.

***Pneumatic Fog Signals**

CLAYTON AIR COMPRESSOR WKS., 115 B'way, New York. (See adv. index & branch offices, end of book)
LAIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

Pneumatic Forges

Chicago Pneumatic Tool Co. ("Chicago"), Fisher bldg, Chicago, Ill.
 Cleveland Pneumatic Tool Co. ("Gunnell" Rivet), 6410 Hawthorne av., Cleveland, O.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pneumatic Forging Hammers or Machines

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Featherstone Foundry & Machine Co. ("Kennedy"), 303 Railway Ex., Chicago, Ill.
 Williams, White & Co. ("Yeakley"), Moline, Ill.

Pneumatic Foundry Rammers

(See Pneumatic Sand Rammers)

***Pneumatic Gear Hoists**

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

Pneumatic Granite Cutters' Tools

(See Pneumatic Stone Cutters' Tools)

***Pneumatic Hammer Drills**

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 Broadway, New York. (See adv. index & branch offices, end of book)

Pneumatic Hammers

Albree Chester B. Iron Works, Allegheny, Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Chicago Pneumatic Tool Co. ("Boyer," "Keller," Riveting), Fisher bldg, Chicago, Ill.
 Cleveland Pneumatic Tool Co., 6410 Hawthorne av., Cleveland, O.

DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)
 Dayton Pneumatic Tool Co. ("Green" & "Dayton"), Dayton, O.
 Detroit Pneumatic Tool Co., Detroit, Mich.

HELWIG MFG. CO. ("Helwig," for Chipping, Calking & Riveting), St. Paul, Minn. (See adv. index, end of book)
 Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Kotten, H. G. (For Stone, Granite & Marble), 32 Cortlandt (Hudson Terminal bldg), New York.
 Leyner, J. Geo. Engineering Works Co. (For Stone or Metal), Littleton, Colo.

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.

Oldham, Geo. & Son (For Stone, Marble & Granite), 4326 Thackavanna, Fkd., Phila., Pa.
 Pittsburg Pneumatic Co., Canton, O.
 Pneumatic Appliance Co., 149 B'way, New York

Shaw, C. H. Pneumatic Tool Co., 35th & Wazee, Denver, Colo.
 Standard Railway Equipment Co., St. Louis, Mo.

Pneumatic Hoisting Engines

(See Engines, Pneumatic)

Pneumatic Hoists

American Air Compressor Works, 26 Cortlandt, New York, & Van Brunt & Summit, Brooklyn, N. Y.
 American Steam Pump Co., Battle Creek, Mich.

Baker-Churchill-Lee Co. ("Lee" Motor Hoists & Trolley & Hoists Combined), 907 Michigan av., Detroit, Mich.

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Calumet Engineering Works, Harvey, Ill.
 Chicago Pneumatic Tool Co. (Geared & Trolley Combined), Fisher bldg, Chicago, Ill.

CLAYTON AIR COMPRESSOR WKS., 115 B'way, New York. (See adv. index & branch offices, end of book)

Curtis & Co., Mfg. Co. (Vertical, Horizontal Travelling, etc.), St. Louis, Mo.

Dake Engine Co. (Chain), Grand Haven, Mich.
 Detroit Engineering Works, Chene & Guion, Detroit, Mich.

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)
 Empire Engine & Motor Co. ("Empire" Motor Chain), Orangeburg, N. Y.

FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Hanna Engineering Works, 820 Elston av., Chicago, Ill.

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

LAIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

Leyner, J. Geo. Engineering Works Co., Littleton, Colo.

Nason Mfg. Co., 71 Beekman, New York

NORTHERN ENGINEERING WKS., 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Q. M. S. Co., Plainfield, N. J.

READING CRANE & HOIST WORKS., Reading, Pa. (See adv. index, end of book)
 Ridgway, Craig & Son Co. (Vertical & Horizontal), Coatesville, Pa.

Rix Compressed Air & Drill Co. (Mine), 396 Mission, San Francisco, Cal.

Shepard Electric Crane & Hoist Co. ("Shepard" Pneumatic Motor), Montour Falls, N. Y.

Standard Railway Equipment Co., St. Louis, Mo.

Welch & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.

WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

Wickes Bros., Saginaw, Mich.

Pneumatic Hose Couplings

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Chicago Pneumatic Tool Co. ("Chicago" Universal), Fisher bldg, Chicago, Ill.

Clark, W. J. Co. ("Quick-As-Wink"), Salem, Ohio

Cleveland Pneumatic Tool Co. ("Bowes"), 6410 Hawthorne av., Cleveland, O.

Curtis & Co. Mfg. Co. ("Curtis"), St. Louis, Mo.

DALLETT, THOS. H. CO. ("Dallett" Automatic), 2300 York, Phila., Pa. (See adv. index, end of book)

Edwards, H. D. Co. ("Joy" Automatic), Detroit, Mich.

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Moran Flexible Steam Joint Co. (All Metal Flexible, also for Steam or Liquid), Louisville, Ky.

Slocumb, F. F. & Co., Wilmington, Del.

Pneumatic Jacks

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

WHITING FOUNDRY EQUIPMENT CO., General Office & Works, Harvey, Ill. (See adv. index & branch offices, end of book)

Pneumatic Jam Riveters

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

Columbus Pneumatic Tool Co. ("Dunlap"), Columbus, O.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

***Pneumatic Lattice Column Riveters**

ALLEN, JNO. F., 370 Gerard av., New York. (See adv. index, end of book)

Pneumatic Motors

Baker-Churchill-Lee Co. ("Lee"), 907 Michigan av., Detroit, Mich.

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av., Cleveland, O.

Dake Engine Co. (Reversible), Grand Haven, Mich.

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

Draper Mfg. Co. ("McGrath" for R. R. Turntables, etc.), Port Huron, Mich.

Empire Engine & Motor Co. ("Empire"), Orangeburg, N. Y.

HELWIG MFG. CO. ("Helwig," Reversible, Both End & Central Spindle for Metal & Wood Boring), St. Paul, Minn. (See adv. index, end of book)

Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pittsburg Pneumatic Co., Canton, O.

Reliance Pneumatic Tool Co. (For Wood Boring, etc.), Channing & Franklin avs., St. Louis, Mo.

Shepard Electric Crane & Hoist Co. ("Shepard" Reversible Back Geared, for Cranes, Derricks, Mills, Car Shops, etc.), Montour Falls, N. Y.

Standard Railway Equipment Co., St. Louis, Mo.

*Pneumatic Motors & Geared Pneumatic Hoists

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

-- PNEUMATIC MOTORS -- -- AND -- Geared Pneumatic Hoists **DETROIT HOIST & MACHINE CO** DETROIT, MICH.

Pneumatic Painting Machines

(See also Paint Spraying Machines)

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co., 6410 Hawthorne av., Cleveland, O.

Pneumatic Pile Drivers

Chicago Pneumatic Tool Co. ("Boyer," "Keller"), Fisher bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co., 6410 Hawthorne av., Cleveland, O.
DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)
Hudson Machine & Pneumatic Tool Co., Greenwich & Bethune, New York
INGERSOLL-RAND CO. (Sheet), 11 B'way, New York. (See adv. index & branch offices, end of book)
Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.
Oldham, Geo. & Son, 4326 Thackawanna, Fkd., Phila., Pa.
Leyner, J. Geo. Engineering Works Co., Littleton, Colo.
Sullivan Machinery Co. ("Sullivan"), Railway Exchange, Chicago, Ill.
Wood, Warren, Paterson, N. J.

Pneumatic Piston Drills

Chicago Pneumatic Tool Co. ("Little Giant," "Boyer"), Fisher bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co. ("Cleveland" Four Piston), 6410 Hawthorne av., Cleveland, Ohio
Columbus Pneumatic Tool Co. ("U. & W." "Dunlap" for Drilling in Close Quarters and Heavy Reaming), Columbus, O.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av., Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.

Pneumatic Platform Hoists

Curtis & Co., Mfg. Co., St. Louis, Mo.

Pneumatic Plug Drillers

DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 Broadway, New York. (See adv. index & branch offices, end of book)
Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.
Vermont Construction Co., Montpelier, Vt.

*Pneumatic Polishing Machinery

HARRISON SUPPLY CO., 5 & 7 Dorchester av., Extension, Boston, Mass. (See adv. index, end of book)

Pneumatic Portable Saws

Reliance Pneumatic Tool Co., Channing & Franklin avs., St. Louis, Mo.

Pneumatic Presses

Slocumb, F. F. & Co. ("Caskey"), Wilmington, Del.
Springfield Machine Tool Co. (Intensifying), Springfield, Mass.

*Pneumatic Pumping Systems

(See also Pneumatic Water Supply Systems)
(See also Pumps, Pneumatic)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)
THOMAS & SMITH (Inc.) ("Economy"), 17 S Carpenter, Chicago, Ill., & 288 Hudson, New York. (See adv. index, end of book)

Pneumatic Punches

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
Reliance Pneumatic Tool Co. (Combination Flange Punching & Riveting Machines), Channing & Franklin avs., St. Louis, Mo.
Slocumb, F. F. & Co. ("Caskey" Portable), Wilmington, Del.

Pneumatic Reaming & Tapping Drills

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av., Cleveland, O.
Columbus Pneumatic Tool Co. ("Dunlap"), Columbus, Ohio
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor" Reversible), 1307 Michigan av., Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.
Standard Railway Equipment Co., St. Louis, Mo.

Pneumatic Rivet Holder-On

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av., Cleveland, O.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.

*Pneumatic Rivet Sets

CLEVELAND PUNCH & SHEAR Works Co., Cleveland, O. (See adv. index, end of book)

Pneumatic Riveters

Albee, Chester B. Iron Works ("Pittsburg"), Pittsburg, Pa.
ALLEN, JNO. F. (Percussion & Compression), 370 Gerard av., New York. (See adv. index, end of book)
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Chicago Pneumatic Tool Co. ("Boyer"), Fisher bldg, Chicago, Ill.
CLAYTON AIR COMPRESSOR WKS., 115 B'way, New York. (See adv. index & branch offices, end of book)
Cleveland Pneumatic Tool Co. ("Ajax" & "Cleveland"), Cleveland, O.
CLEVELAND PUNCH & SHEAR WORKS Co., Cleveland, O. (See adv. index, end of book)
Columbus Pneumatic Tool Co. ("Dunlap" Long Stroke), Columbus, O.
Dayton Pneumatic Tool Co., Dayton, O.
Hanna Engineering Works, 820 Elston av., Chicago, Ill.

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

LAIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.
Oldham, Geo., & Son, Frankford, Phila., Pa.
Pittsburg Pneumatic Co., Canton, O.
Prouty, T. C. Co. (Ltd.), Albion, Mich.

Reliance Pneumatic Tool Co. (Hydro Tank, Bridge & Girder), Channing & Franklin avs., St. Louis, Mo.

Shepard Electric Crane & Hoist Co. ("Shepard" Compression Multiple Power, etc.), Montour Falls, N. Y.

Slocumb, F. F. & Co. ("Caskey"), Wilmington, Del.
Standard Railway Equipment Co., St. Louis, Mo.

Pneumatic Rock Drills

(See also Pneumatic Plug Drillers)

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Leyner, J. Geo. Engineering Works Co. ("Leyner"), Littleton, Colo.
Shaw, C. H., Pneumatic Tool Co. ("Shaw," "Eclipse" Air Hammer), Denver, Col.
Smith, G. W. & Co. ("Victor"), Chattanooga, Tenn.
Sullivan Machinery Co. (Diamond Core), Railway Exchange, Chicago, Ill.
Wickes Bros. ("Murphy's" Little Champion), Saginaw, Mich.
Wood Drill Works, Paterson, N. J.

Pneumatic Rotary Drills

Chicago Pneumatic Tool Co. ("Phoenix," "Keller," "Moffet"), Fisher bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co. ("Cleveland" Breast), 6410 Hawthorne av., Cleveland, O.
Columbus Pneumatic Tool Co. ("Columbus"), Columbus, O.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
JEFFREY MFG. CO. ("Giant" for Coal, etc.), Columbus, O. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.
Shaw, C. H. Pneumatic Tool Co., Denver, Colo.

Pneumatic Sand Rammers

Chicago Pneumatic Tool Co. ("Chicago," "Keller"), Fisher bldg, Chicago, Ill.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av., Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
Pittsburg Pneumatic Co., Canton, O.

Pneumatic Scaling Hammers

(For Scaling Castings, Etc.)

Chicago Pneumatic Tool Co. ("Boyer," "Keller"), Fisher bldg, Chicago, Ill.
Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av., Cleveland, O.
Columbus Pneumatic Tool Co. ("Dunlap"), Columbus, O.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av., Chicago, Ill.
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.
Pneumatic Appliance Co., 149 B'way, New York

Pneumatic Screen Shakers

Hanna Engineering Works, 820 Elston av., Chicago, Ill.
Pittsburg Pneumatic Co., Canton, O.

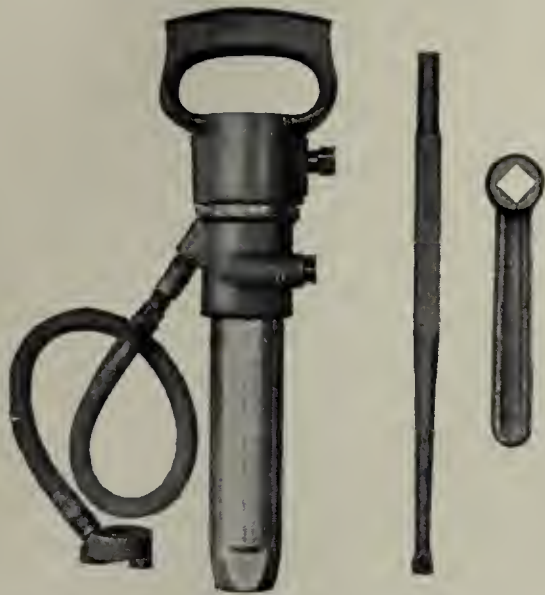
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AND

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Stand up to the work and give satisfaction.



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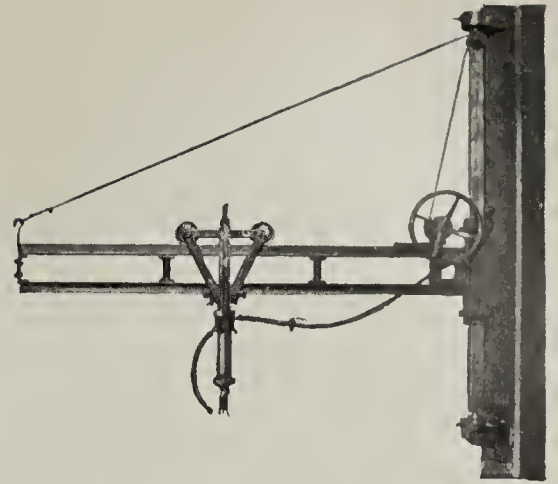
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The Fastest and Tightest Riveting at Lowest Cost
is assured if you work with

ALLEN Portable Pneumatic RIVETERS

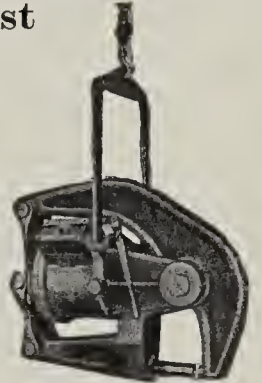
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Special Riveters Designed to Meet all Requirements.

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HELWIG MFG. CO.,

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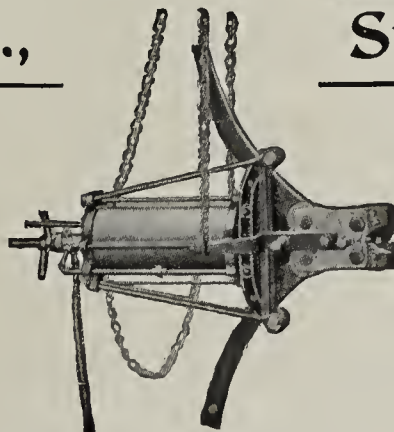


Have simple valve mechanism; faster cutting speed; you can regulate speed, also blow from lightest to heaviest. Riveters have quick, hard blow; no loose rivets; simple automatic trigger lock saves rivet sets. Handle locked. Cheapest to operate and maintain.



Bolt and Rivet Clippers

Cut close to work. Four sizes, to cut from 3/4 inch to nothing.



Pneumatic Staybolt Clippers

Two sizes, to cut from 1 1/2 inch staybolt and less, straight and smooth, ready for riveting; have inserted knives readily replaced at small cost; easy to operate; durable. Weight, 210 and 170 lbs.



Reversible Pneumatic Motors

(End and Central Spindle.) Drill in close quarters; have greater efficiency and durability; few parts; economical in use of air and in repairs.



Self-Feeder Flue Expander

Does away with Sectional Expander, its cost and labor to operate same, and indicates when flue is sufficiently expanded.

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Q We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine, tool or specialty which they may require. :: :: :: :: ::

==== **Hendricks'** =====
Commercial Register

***Pneumatic Sealing Hammers**

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pneumatic Staybolt Breakers

Pittsburg Pneumatic Co., Canton, O.
 Reliance Pneumatic Tool Co., Channing & Franklin ave., St. Louis, Mo.
 Scully Steel & Iron Co., 136 Fulton, Chicago, Ill.

Pneumatic Staybolt Clippers

(See Pneumatic Staybolt Cutters)

Pneumatic Staybolt Cutters

(See also Cutters, Staybolt)

Chicago Pneumatic Tool Co., Chicago, Ill.
HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)
 Pittsburg Pneumatic Co., Canton, O.
 Reliance Pneumatic Tool Co., Channing & Franklin ave., St. Louis, Mo.
 Slocomb, F. F. & Co., Wilmington, Del.
 Standard Railway Equipment Co., St. Louis, Mo.

Pneumatic Stone Carving Tools

BLISS, E. W. CO. (Sheet Metal), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.

Oldham, Geo., & Son, Fkd., Phila., Pa.
 Pittsburg Pneumatic Co., Canton, O.
 Trow & Holden, Barre, Vt.
 Vermont Construction Co., Montpelier, Vt.

Pneumatic Stone Cutters' Tools

Chicago Pneumatic Tool Co. ("Boyer," "Keller"), Fisher bldg, Chicago, Ill.

DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.

Oldham, Geo. & Son, Fkd., Phila., Pa.
 Pittsburg Pneumatic Co., Canton, O.
 Trow & Holden, Barre, Vt.

***Pneumatic Stone Surfacing Machines**

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Chicago Pneumatic Tool Co. ("Keller"), Fisher bldg, Chicago, Ill.

DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.

Oldham, Geo. & Son (Portable), 4326 Thackawanna, Fkd., Phila., Pa.
 Vermont Construction Co., Montpelier, Vt.

Pneumatic Tool Lubricants

Cleveland Pneumatic Tool Co. ("Cleveland" "Never-Gum"), 6410 Hawthorne av., Cleveland, O.

Fanning, Jas. L. ("Pneulubric"), 23 S 5th, Phila., Pa.

Houghton, E. F. & Co., 240 Somerset, Phila., Pa.

Zurn, O. F. Co. ("Pneuoxyum"), Broad & Lehigh, Phila., Pa.

Pneumatic Tool Lubricators

Carron, A. M. & Co. ("Pittsburg"), Pittsburg, Pa.
 Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

***Pneumatic Tool Repairing**

(Repairing of All Makes)

DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)

Pneumatic Tools

Albree, Chester B. Iron Works, Pittsburg, Pa.
 Baker-Churchill-Lee Co. ("Lee"), 907 Michigan av., Detroit, Mich.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

CLAYTON AIR COMPRESSOR WKS., 115 B'way, New York (See adv. index & branch offices, end of book)

Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av., Cleveland, O.

Columbus Pneumatic Tool Co., Columbus, O.

DALLETT, THOS. H. CO., 2300 York, Phila., Pa. (See adv. index, end of book)

Dayton Pneumatic Tool Co. ("Green" & "Dayton"), Dayton, O.

Detroit Pneumatic Tool Co., Detroit, Mich.

Empire Engine & Motor Co., Orangeburgh, N. Y.

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

Independent Pneumatic Tool Co. ("Thor"), 1307 Michigan av., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Kotten, H. G., 32 Cortlandt (Hudson Terminal bldg), New York. Factory, Marion, N. J.

LIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

MANHATTAN TOOL CO., care E. W. Bliss Co., 19 Adams, Brooklyn, N. Y.

Oldham, Geo., & Son, Fkd., Phila., Pa.

Pittsburg Pneumatic Co., Canton, O.

Pneumatic Appliance Co., 149 B'way, New York

Shaw, C. H., Pneumatic Tool Co., Denver, Col.

Slocomb, F. F. & Co. (Punches and Riveters), Wilmington, Del.

Standard Railway Equipment Co. ("The Monarch"), St. Louis, Mo.

***Pneumatic Tools & Supplies**

HARRISON SUPPLY CO., 5 and 7 Dorchester av Extension, Boston, Mass. (See adv. index, end of book)

Pneumatic Trolley Hoists

(See Pneumatic Hoists)

Pneumatic Tubes

Electro Pneumatic Tube Co., Times bldg, New York

GRISCOM - SPENCER CO. ("Dispatch"), 90 West, New York, & ft. Washington av, Phila., Pa. (See adv. index & branch offices, end of book)

Lamson Consolidated Store Service Co., 161 Devonshire, Boston, Mass.

Miles, Geo. Co., Winsted, Conn.

Miles Pneumatic Tube Co., 1123 B'way, New York

Pneumatic Trans. Co., 1038 Ridge av, Philadelphia, Pa.

Talsey Pneumatic Service Co., Indianapolis, Ind.

Universal Pneumatic Transmission Co., 135 Adams, Chicago, Ill.

Pneumatic Tubes & Caissons for Bridge Piers

Builders' Iron Foundry, Providence, R. I.

Pneumatic Tunneling Machines

Terry & Tench Co. (Operated in Connection with Pneumatic Chipping Hammers), Lexington av, & 131st, New York

***Pneumatic Valveless Hammers**

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

Pneumatic Water Supply Systems

(See also Pneumatic Pumping Systems)

American Pure Water Supply Co., Ashtabula, Ohio

American Water Purification Co., 10 Milk, Boston, Mass.

Bennett Bros. Co. (Ideal), Lowell, Mass.

KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)

Leader Iron Works ("Leader" Hydro-Pneumatic), Decatur, Ill.

Modern Water Supply Co., Pittsburg, Pa.

National Steel Tank Co., Pekin, Ill.

SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

THOMAS & SMITH (Inc.) ("Economy"), 17 S Carpenter, Chicago, Ill., & 288 Hudson, New York. (See adv. index, end of book)

Woodmanse Mfg. Co., Freeport, Ill.

Pneumatic Winches

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

Empire Engine & Motor Co. ("Empire"), Orangeburgh, N. Y.

Pneumatic Winding Drums

Baker-Churchill-Lee Co. ("Lee"), 907 Michigan av, Detroit, Mich.

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

Pneumatic Wood Boring Machines

Chicago Pneumatic Tool Co. ("Little Giant," "Keller"), Fisher bldg, Chicago, Ill.

Cleveland Pneumatic Tool Co. ("Cleveland"), 6410 Hawthorne av., Cleveland, O.

Empire Engine & Motor Co. ("Empire" Wood Drills), Orangeburgh, N. Y.

HELWIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

Independent Pneumatic Tool Co. ("Thor" Reversible), 1307 Michigan av., Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pittsburg Pneumatic Co., Canton, O.

Standard Railway Equipment Co., St. Louis, Mo.

Pneumatic Yoke Riveters

Chicago Pneumatic Tool Co., Fisher bldg, Chicago, Ill.

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Pittsburg Pneumatic Co., Canton, O.

Terry & Tench Co. (Inc.) ("Terry"), Lexington av & 131st, New York

Poachers (Egg)

Republic Metal Ware Co. ("Buffalo" Steam), Buffalo, N. Y.

Pocket Book & Bag Frames

Goertz, Aug., & Co., Newark, N. J.

Havell Mfg. Co., 284 Washington, Newark, N. J.

Mergott, J. E., Co., Newark, N. J.

Milwaukee Stamping Co. (Also Fittings), West Allis, Wis.

Neumann, R. Hardware Co. (Also Fittings), Newark, N. J.

Potter, E. & Co., Newark, N. J.

Strauss, Michael (Also Fittings), 395 B'way, New York

Pockets (Coal)

Hendrick Mfg. Co., Carbondale, Pa.

Howe Scale Co., of Illinois, 1315 Wabash av, Chicago, Ill.

Pockets (Cotton Waste)

Knapp Mfg. Co., 20 Warren, New York

Pockets (Draw Bar)

Illinois Bolt, Nut & Forging Co., 35th & Ashland av. Chicago, Ill.

Pointers (Bolt)

(See Machines, Bolt Pointing)

Pointers (Dowel)

Stearns, E. C. & Co., Syracuse, N. Y.

Pointers (Spoke)

Ives, W. A. Mfg. Co., 299 B'way, New York
Silver Mfg. Co., Salem, O.
Stearns, E. C. & Co. (Also Dowel), Syracuse, N. Y.
Swan, Jas. Co., Seymour, Conn.

Points (Carbon)

(See Tools, Diamond)

Points (Cultivator)

Harrow Spring Co., Kalamazoo, Mich.
Mason, F. C. & Co. (Spring Tooth, Single & Double Pointed), St. Johns, Mich.

Points (Drill)

Goodell-Pratt Co. (Plain or Fluted Shank), Greenfield, Mass.
Millers Falls Co. (for Hand Drills), 28 Warren, New York. Works, Millers Falls, Mass.

Points (Drive Well)

Baker Mfg. Co., Evansville, Wis.
Gowanda Agricultural Works, Gowanda, N. Y.
Mark Mfg. Co., Evanston, Ill.
National Tube Co. (Mfrs. of All Kinds of Well Points & Supplies), Pittsburg, Pa.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Points (Glaziers')

Atlas Tack Co., Fairhaven, Mass.
Austin & Eddy, 117 Broad, Boston, Mass.
Holland Mfg. Co., Baltimore, Md.
Hubbard & McClary, Windsor, Vt.
National Sheet Metal Co. (Zinc), Peru, Ill.
Phillips, E. & Sons, South Hanover, Mass.
Shelton Co., Shelton, Conn.
Waddell, R. J. & Co., 52 Beekman, New York

Points (Grain Drill)

Crescent Forge & Shovel Co., Havana, Ill.
Empire Plow Co., Cleveland, Ohio.
Mason, F. C. & Co., St. Johns, Mich.
Weyburn Co., Rockford, Ill.

Points (Harrow)

American Knife Co. (Reversible & Detachable), Baldwinsville, N. Y.

***Points (Lightning Rod)**

UNITED WIRE & SUPPLY CO. (Brass & Copper), 109 Summer, Providence, R. I.
(See adv. index, end of book)

***Points (Platinum - Iridium)**

CROSELMIRE & ACKOR CO. (For Spark Colls), 42 Walnut, Newark, N. J.
(See adv. index, end of book)

***Points (Platinum Pyrographic)**

CROSELMIRE & ACKOR CO., 42 Walnut, Newark, N. J. (See adv. index, end of book)

***Points (Platinum Sparking)**

AMERICAN PLATINUM WORKS (For Spark Colls), Chestnut st & N. J. R. R. av, Newark, N. J. (See adv. index, end of book)

Baker & Co. (Gas & Gasoline Engines), Newark, N. J.

CROSELMIRE & ACKOR CO. (For Spark Colls), 42 Walnut, Newark, N. J. (See adv. index, end of book)

Points (Plow)

Havana Metal Wheel Co., Havana, Ill.
McMaster, R. C., Adamsville, Pa.
Moore Plow & Implement Co. ("Moore"), Greenville, Mich.
Patten & Stafford Co., Canastota, N. Y.

Points (Stone)

Stortz, John & Son, 210 Vine, Phila., Pa.

Points (Well)

(See Points, Drive Well)

Poker Chips (Hard Rubber)

Goodrich, B. T. Co., Akron, O.

Pokers (Stove)

Arcade Mfg. Co. ("Siberian" & "Serpentine"), Freeport, Ill.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Central Stamping Co., 174 Fulton, New York
Dover Stamping & Mfg. Co., Cambridge, Mass.
Hazel Atlas Glass Co., Wheeling, W. Va.
Ireland & Matthews Mfg. Co., Detroit, Mich.

Pokes (Animal)

Osmundson Spade Mfg. Co. ("Norwegian" Steel), Perry, Ia.
Wire Goods Co., Worcester, Mass.

Pole-Crabs

Billings & Spencer Co. (Drop Forged), Hartford, Conn.
Druen, B. D., 71 Hamilton, New Haven, Conn.
English & Mersick Co., New Haven, Conn.
Woodruff, Walter W., & Sons Co., Mount Carmel, Conn.

Pole Erectors

Matthews, W. N. & Bro. ("Matthews" for Erecting Trolley & Telegraph Poles, etc.), St. Louis, Mo.

Pole Protectors

Hubbard & Co., Pittsburg, Pa.
Lanz, M. & Sons (Protection Strips), 101 S 29th, Pittsburg, Pa.

Pole Steps

American Iron & Steel Mfg. Co., Lebanon, Pa.
AMERICAN STEEL & WIRE CO. ("American"), Commercial Nat. Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Cutter, Geo. Co. (Removable), South Bend, Ind.
Grabler Mfg. Co., Cleveland, O.
Hoopes & Townsend Co., 1330 Buttonwood, Hubbard & Co., Pittsburg, Pa. Phila., Pa.
Inland Steel Co. (Bessemer Steel), 1st Nat'l Bank bldg., Chicago, Ill.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Matthew & Sons, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Morris, Elmer P. Co., 90 West, New York
Oliver Iron & Steel Co., Pittsburg, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
Strieby & Foote Co., Newark, N. J.

Poles (Arc Lamp)

(See Poles, Iron & Steel)

Poles (Curtain)

Barrett, Chas. R. Co. ("Barrett" Flexible), 32 Union sq., New York
Berbecker & Rowland Mfg. Co. (Brass, also Trimmings), Waterville, Conn.
Judd, H. L. Co. (Wood), 87 Chambers, New York
Kroder, Jno. & Henry, Reubel Co. (Brass & Wood Poles & Trimmings), 107 E 117th, New York
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Poles (Iron & Steel)

(For Street Railways & Electric Lights; see also Posts, Arc Lamp; for Wooden Poles, see Ties, Poles & Posts)

American Bridge Co., 30 Church, New York
Diamond Steel Pole Co., Land Title bldg, Phila., Pa.
Electric Railway Equipment Co. (Wire-Locked Swedged Joint Tubular), Cincinnati, O.
Lundin Electric & Machine Co. (Ornamental Goose Neck), Boston, Mass.
Milhiken Bros., 11 B'way, New York
Mott, J. L. Iron Works (Ornamental), 118 5th av, New York
Morris, Elmer P. Co. (Plain & Ornamental), 90 West, New York

National Tube Co., Pittsburg, Pa.
Pittsburg Pole & Forge Co. (Tubular), Pittsburg, Pa.
Scipie Sectional Pole Co., Minneapolis, Minn.
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)
Wisconsin Bridge & Iron Co., Milwaukee, Wis.

Poles (Iron & Steel Flag)

(For Wooden Poles see Ties, Poles & Posts)
American Bridge Co. of New York, 30 Church, Blessing, Louis, Jackson, Mich. New York
Creaghead Engineering Co., 315 Walnut, Cincinnati, Ohio
Krokobola Co. ("Poe" Tower), Olney, Ill.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
National Tube Co., Frick bldg, Pittsburg, Pa.
Phoenix Steel Construction Co., Penn av & 3rd, Pittsburg, Pa.
Stover Mfg. Co., Freeport, Ill.
Wisconsin Bridge & Iron Co., Milwaukee, Wis.

Poles (Pike)

Anderson Tool & Supply Co., Detroit, Mich.
Champlon Tool & Handle Works, Evart, Mich.
Columbus Handle & Tool Co., Columbus, Ind.
Dicke, C. H. Tool Co., Downers Grove, Ill.
Evart Tool Co. (Ltd.), Evart, Mich.
Gerlach, Peter Co., Cleveland, O.
Klein, Mathias & Son (Guarded or Plain), 87 W Van Buren, Chicago, Ill.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Roberts, Geo. 1st & Liberty av, Pittsburg, Pa.
Sanford Logging Tool Co., Oshkosh, Wis.
Warren Axe & Tool Co., Warren, Pa.

Poles (Pipe, Street Railway)

National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.

Poles (Trolley)

Columbia Machine Works & Malleable Iron Co. (Made of Steel Tubing), 269 Chestnut, Brooklyn, N. Y.
Diamond Steel Pole Co., Land Title bldg, Phila., Pa.
Electric Traction Supply Co. (Cold-Drawn Seamless Steel Tubing), St. Louis, Mo.
Garford Co. (Cold-Drawn Seamless Steel Tubing), Elyria, O.
Garton, W. R. Co. (Seamless Steel Tubing), 118 W Jackson boul, Chicago, Ill.
National Tube Co., Pittsburg, Pa.
NUTTALL, R. D. CO. ("Detroit" Cold-Drawn Seamless Steel Tubing; also Butt-Welded Steel Tubular), Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)
Ohio Brass Co., Mansfield, O.
Pittsburg Pole & Forge Co. ("Verona," Made from Seamless Steel Tubing; "Pittsburg," Made from Lap-Welded Tubing), Pittsburg, Pa.
Pittsburg Trolley Pole, Pittsburg, Pa.
Reading Iron Co., Reading, Pa.

Poles (Window Pull-Down)

Piqua Handle & Mfg. Co., Piqua, O.

Poles & Posts (Wood)

(See Ties, Poles & Posts; also Poles, Iron & Steel Trolley)

Polish (Cutlery)

Dillg Mfg. & Trading Co. ("Dillg," "Defiance" & "Acme" Plate & Steel Polish), 667 E 163rd, New York

Polish (Furniture)

(See also Metal Polish)

Bridgeport Wood Finishing Co. ("Eastons"), New Milford, Conn.
Cleanola Co. ("Cleanola," for All Varnish Surfaces), Pittsburg, Pa.
Great Western Oil Co. (Wax), Cleveland, Ohio
NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)
Rath Mfg. Co. ("Ye-Olde-Homestead"), Hedley & Richmond, Phila., Pa.
Sonneborn, L. Sons (Inc.) ("Amalla" Oil for Piano, Furniture, Carriage Body, etc.), 262 Pearl, New York

Polish (Marble)

Eureka Polishing Powder Co., Taylorville, Ill.

***Polishing Materials**

DOGGETT, STANLEY (All Kinds), 101 Beekman, New York. (See adv. index, end of book)

***Polishing Supplies (Granite & Marble)**

HARRISON SUPPLY CO., 5 & 7 Dorchester av Extension, Boston, Mass. (See adv. index, end of book)

Poppers (Corn)

Chapman, C. A. ("More's"), Geneva, N. Y.
Delphos Mfg. Co. ("Delphos" Sheet Iron), Delphos, O.

Deshier Mail Box Co. ("Snow Flake"), Deshler, O.

GENERAL ELECTRIC CO. (Electric), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Middletown Mfg. Co. ("Miami"), Middletown, Ohio
Ressier, G. S. ("Star"), Lansing, Mich.
Royal Polished Steel Rooster Co. ("Troy"), Troy, O.

Utility Mfg. Co. ("Utility"), Sturgis, Mich.
Wickwire Bros., Cortland, N. Y.

Porcelain Enameling

Wheeler Reflector Co., 156 Pearl, Boston, Mass.

Porcelain Specialties (Electrical, Mechanical, Etc.)

Akron Hi-Potential Porcelain Co., Barberton, Ohio

American Carbon & Battery Co., East St. Louis, Mo.

Anderson Porcelain Co., East Liverpool, O.

Artistic Porcelain Co., Trenton, N. J.

Brunt, G. F. Porcelain Works, East Liverpool, Ohio

Cary, Edw. F. Co. (Importers), 61 Park pl, New York

Colonial Sign & Insulator Co., Akron, Ohio.

Cook Pottery Co., Trenton, N. J.

Diamond Porcelain Co., Trenton, N. J.

Electric Porcelain Co., East Liverpool, O.

Empire China Work, 150 Green, Brooklyn, N. Y.

Hartford Faience Co. (Electrical), Hartford, Conn.

Imperial Porcelain Works, Trenton, N. J.

Lima Insulator Co. (Electrical Only), Lima, New York

National Porcelain Co., Trenton, N. J.

Pass & Seymour (Electrical Only), Solvey, N. Y.

Pern Electric Mfg. Co. (Electrical Only), Peru, Ind.

Pittsburg High Voltage Insulator Co. (Porcelain Insulators, Wall Bushings, Tubing, etc.), Derry, Pa.

Star Porcelain Co., Trenton, N. J.

Thomas, R. & Sons Co., East Liverpool, O.

Trenton Porcelain Co., Trenton, N. J.

Union Electrical Porcelain Works, Trenton, N. J.

Union Porcelain W'ks, 300 Eckf'd, B'klyn, N. Y.

U. S. Electric Porcelain Co., Findlay, O.

Wirt Mfg. Co., Burrage, Mass.

Porch Columns

(See Columns, Porch, Etc.)

Porch Supports

Forest City Fdry. & Mfg. Co. (Cast Iron), Cleveland, Ohio

Port Lights (Ship)

Delaware Marine Supply Mfg. Co., Wilmington, Del.

Marine Hardware Co., Peabody, Mass.

Marine Mfg. & Supply Co., 158 South, New York

Turner Brass Works, 68 Michigan, Chicago, Ill.

Portable Houses

American Steel House Co. (Steel), 796 11th av, New York

Chapman, Geo. H., St. Johns, Mich.

Ducker Co. (Iron & Wood), 277 B'way, New York

Hodgson, Ernest F., Dover, Mass.

Knapp Portable Bldg. Co., 5 E 42d, New York

Mershon & Morley Co. (Cottages, Houses, Cabins, Ranches, Depots, Baths, Hospitals, etc., Portable for all uses; also Portable Double Folding Beds, etc.), Saginaw, Mich.

Phenix Mfg. Co., Humboldt av, cor Center, Milwaukee, Wis.

Southern Foundry Co. (Steel), Owensboro, Ky.

SPRINGFIELD PORTABLE CONSTRUCTION CO. (Contractors' Offices, Real Estate Offices, Automobile Houses & Summer Cottages), 60 Waltham av, Springfield, Mass.

(See adv. index, end of book)

Squires, Henry C. & Son (Houses, Cottages, Hospitals, etc., without Nail or Screw), 44 Cortlandt, New York

Portable Railways

(See Railways, Industrial & Portable)

Portables (Electric)

(See also Lights, Desk)

Acorn Shade & Reflector Co., 73 Ellen, Chicago, Ill.

American Brass & Copper Co., 138 Lafayette, New York

Bradley & Hubbard Mfg. Co., Meriden, Conn.

Chicago Lamp & Reflector Co., 319 S Canal, Chicago, Ill.

Dale Co., 9th av & 13th, New York

Gall-Webb Mfg. Co., Buffalo, N. Y.

Goodwin & Kintz Co., Winsted, Conn.

H. C. K. Co., 30 Greenwich, New York

Hamilton Mfg. Co., Pittsburg, Pa.

Handel Co., Meriden, Conn.

McLeod, Ward & Co., 27 Thames, New York

Milner, Edw. & Co., Meriden, Conn.

Neuhauser, D. L., 242 S Water, Chicago, Ill.

Pacific Elec. Co. ("Espersen"), La Crosse, Wis.

Plume & Atwood Mfg. Co., Waterbury, Conn.

Suess Ornamental Glass Co., 192 Washington boul, Chicago, Ill.

Tietgen, Folk & Co., 81 W Van Buren, Chicago, Ill.

Unique Art Glass & Metal Co., 105 Vanderveer, Brooklyn, N. Y.

Wells Light Mfg. Co. ("Wailworks"), 14 Church, New York

Post Caps & Bases

Clark, W. J. Co., Salem, O.
Goetz Box Anchor Co., New Albany, Ind.

Lanz, M. & Sons, Pittsburg, Pa.

SMITH, F. P. WIRE & IRON WORKS.

100 Lake, Chicago, Ill. (See adv. index, end of book)

TRUSSED CONCRETE STEEL CO.

Trussed Concrete bldg, Detroit, Mich. (See adv. index & branch offices, end of book)

Post Office Equipments

Waddeil Woodenware Works Co. (Routing Tables, Distributing Cases, etc.), Greenfield, O.

Yale & Towne Mfg. Co., 9 Murray, New York.

Posts (Arc Lamp)

(See also Poles, Iron & Steel)

Ajax Line Material Co., 12 S Jefferson, Chicago, Ill.

Cutter, Geo. Co., South Bend, Ind.

Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.

Electric Railway Equipment Co., 1938 W 8th, Cincinnati, O.

Illinois Malleable Iron Co., 515 Diversey av, Chicago, Ill.

Lundin Elec. & Machine Co., Boston, Mass.

Meyers, Fred'k J. Mfg. Co., Hamilton, O.

Mott, J. L. Iron Works, 118 5th av, New York

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Williams, Jno., 556 W 27th, New York

Posts (Binding)

American Pin Co., Waterbury, Conn.

Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York

BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)

Chicago Nut Co., Chicago, Ill.

Cook, H. C., Co., Ansonia, Conn.

Corbin Screw Corporation, New Britain, Conn.

Dickinson Mfg. Co., Springfield, Mass.

Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.

Fabnestock Electric Mfg. Co. (Spring), Brooklyn, N. Y.

Footo, Plerson & Co., New York

Hartford Machine Screw Co., Hartford, Conn.

International Brass & Electric Co. (Brass, etc.), 76 Beekman, New York

Keliogg Switchboard & Supply Co., Congress & Green, Chicago, Ill.

Manhattan Electrical Supply Co., 17 Park pl, New York

NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)

Ostrander, W. R. & Co., 23 Dey, New York

Partrick, Carter & Wilkins Co., 22d & Wood, Phila., Pa.

Peru Electric Mfg. Co., Peru, Ind.

St. Louis Screw Co., St. Louis, Mo.

Springfield Machine Screw Co., Springfield, Mass.

Stanley & Patterson, 23 Murray, New York

Trumbull Electric Mfg. Co., Plainville, Conn.

United Metal Mfg. Co., 525 W 26th, New York

Waterbury Mfg. Co., Waterbury, Conn.

IF YOU ARE IN DOUBT AS TO THE ORIGINAL MANUFACTURER OF ANY MACHINE OR TOOL ON WHICH THE PATENTS HAVE EXPIRED, THAT ARE NOW BEING EXPLOITED BY MANY MAKERS, ASK HENDRICKS.

Welch, T. F. & Co., Boston, Mass.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wire & Telephone Co. ("Houghton"), Rome, N. Y.

Posts (Arc Lamp)

Ajax Line Material Co., 12 S Jefferson, Chicago, Ill.

Posts (Car Bumping)

McCord & Co. ("Gibraltar"), Old Colony bldg, Chicago, Ill.
Mechanical Mfg. Co. ("Ellis"), Union Stock Yards, Chicago, Ill.
National Railway Materials Co. ("Hercules"), 90 West, New York
Railroad Supply Co., Bedford bldg, Chicago, Ill.
Scott Mfg. Co. ("Hercules"), Racine, Wis.
Stowell Mfg. & Foundry Co. (Cast Iron), South Milwaukee, Wis.

Posts (Concrete)

Nebraska Concrete Reinforcing Co., Omaha, Neb.
TRUSSED CONCRETE STEEL CO., Trussed Concrete bldg, Detroit, Mich. (See adv. index & branch offices, end of book)

Posts (Drilling)

IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 169 Chambers, New York. (See adv. index, end of book)
Lovejoy Tool Works ("Lovejoy" Base or Double Jaw), 36 E Ohio, Chicago, Ill.

Posts (Hitching)

Barber Mfg. Co. (Painted & Bronzed), Ash-tabula, O.
Belmont Iron Works, Philadelphia, Pa.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
Bloomfield Mfg. Co., Bloomfield, Ind.
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)
Cheney, S. & Sons (Cast Iron), Manlius, N. Y.
CINCINNATI MFG. CO. (Cast Iron), 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
Comstock, Geo. S., Mechanicsburg, Pa.
Donaldson Bros., Mount Clemens, Mich.
Dutton, E. Q. & Co., Cato, N. Y.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
Gale Mfg. Co., Albion, Mich.
Glen Mfg. Co. (Wrought Steel), Ellwood City, Pa.
Gowanda Agricultural Works Co. (Cast Iron), Gowanda, Pa.
Hardware & Woodenware Mfg. Co., 693 Broadway, New York
Hayes Pump & Planter Co. (Ornamental Cast Iron), Galva, Ill.
Illinois Iron & Bolt Co., Carpentersville, Ill.
International Steel Post Co., St. Louis, Mo.
Kokomo Fence Machine Co., Kokomo, Ind.
Lyon Iron Works, Greene, N. Y.
MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
Mack Iron Works Co., Sandusky, O. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO., Ham-ilton, O. (See adv. index, end of book)
Novelty Iron Works, Sterling, Ill.
Peter, F. N. & Bro., Newside, Pa.
PEAFF & KENDALL (Iron), Ferry & Foundry, Newark, N. J. (See adv. index, end of book)
Seneca Mfg. Co. (Iron), Buffalo, N. Y.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
Smith Mfg. Co., Waynesboro, Pa.
Stover Mfg. Co., Freeport, Ill.
Swett, A. L. Iron Works, Medina, N. Y.
VAN DORN IRON WORKS CO., 2685 N 79th, Cleveland, O. (See adv. index, end of book)
Weller Hardware & Foundry Co. (Cast Iron), Horseheads, N. Y.

Posts (Indicator)

Bourbon Copper & Brass Works, 618 Front, Cin-
Eddy Valve Co., Waterford, N. Y. cinnati, O.
Glamorgan Pipe & Foundry Co., Lynchburg,
Kennedy Valve Mfg. Co., Elmira, N. Y. Va.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Posts (Iron Railing)

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
Taylor & Co., cor Morgan & Norman avs., Brooklyn, N. Y.

Posts (Iron & Steel)

Acme Fence & Foundry Co., New Albany, Ind.
Adams, W. J. (Steel), Joliet, Ill.
American Cable Fence Co., Pekin, Ill.
Amos, Chas. & Co., 94 W Larned, Detroit, Mich.
ANCHOR POST IRON WORKS, 147 Nas-sau, New York, N. Y. (See adv. index, end of book)
Avery Stamping Co. ("Never-Break"), Cleve-
Bayley, Wm. Co., Springfield, O. land, Ohio
Bethlehem Foundry & Machine Co., South Bethlehem, Pa.
Bloomfield Mfg. Co., Bloomfield, Ind.
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
Bond Steel Post Co. (Steel Fence), Adrian, Mich.
Childers & Harker (Iron), Carbondale, Ill.
Common Sense Fence Co., Homer, Mich.
Cornell, J. B. & J. M. Co., 26th & 11th av. New York
De Kalh Fence Co., De Kalb, Ill.
Downs, J. H. ("Standard" Steel Fence), 299 Broadway, New York
Dwiggins Wire Fence Co., Anderson, Ind.
Enterprise Foundry & Fence Co., Indianapolis, Ind.
Harmon & Cookston (Steel), Rosewood, O.
Illinois Fence Machine Co. (Steel), Leroy, Ill.
International Steel Post Co., 719 Chestnut, St. Louis, Mo.
Kokomo Fence Machine Co., Kokomo, Ind.
Mack Iron Works Co., Sandusky, O.
Milwaukee Steel Post Co. (Portable Steel Clothes Posts), Milwaukee, Wis.
Missouri Anchor Fence Co., St. Joseph, Mo.
Myers, Chas. H. & Co. (Steel), Leroy, Ill.
Ornamental Iron & Wire Co. (Inc.), Ports-mouth, Va.
Peter, F. N. & Bro., Newside, Pa.
Railroad Supply Co. (Steel for Railway Fences), Bedford bldg, Chicago, Ill.
Republic Iron & Steel Co., Pittsburg, Pa.
Schwab, R. J. & Sons Co., Milwaukee, Wis.
Seneca Mfg. Co. (Fence, Veranda, etc.), 2213 Seneca, Buffalo, N. Y.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Posts (Lamp)

Belmont Iron Works, 2215 Wash'n av, Phila., Pa.
Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa., & 149 B'way, New York
Casey-Hedges Co. (Electric & Gaslight), Chat-tanooga, Tenn.
CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)
Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
Concord Foundry & Machine Co., Concord, N. H.
Cornell, J. B. & J. M. Co., 26th & 11th av. New York
Creswell, S. J. Iron Works, 23d & Cherry, Philadelphia, Pa.
Davis & Farnum Mfg. Co., Waltham, Mass.
Davis & Thomas Co., Catsauqua, Pa.
Dearborn Foundry Co., 1525 Dearborn, Chicago, Ill.
Drummond, M. J. & Co., 182 B'way, New York
Fiske, J. W., 56 Park pl, New York
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Globe Gas Light Co., Boston, Mass.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
JACKSON, WM. H. COMPANY, 29 E 17 Union sq, New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)
McMurray, Robt. & Bro., 365 Harman, Brook-lyn, N. Y.
Miner, Thos. T. W., 821 Eagle av, New York

Mott, J. L. Iron Works, 118 5th av, New York
Paxton & Vierling Iron Works, Omaha, Neb.
Penna. Globe Gas Light Co., Broad & Arch, Philadelphia, Pa.
Richey, Browne & Donald, Maspeth, Borough of Queens, N. Y.
Rittenhouse, C. & Sons, Norristown, Pa.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago. (See adv. index, end of book)

Smith, G. W. & F., Iron Co., Boston, Mass.
Smyser, Royer Co., York, Pa.
SNEAD & CO. IRON WORKS, ft. of Pine, Jersey City. (See adv. index, end of book)
Stacey Mfg. Co., Elmwood pl, Cincinnati, O.
Sun Vapor Street Light Co., Canton, O.
Wells Architectural Iron Co., 219-221 E 144th, New York
Westervelt, A. B. & W. T., 102 Chambers, New York
Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Posts (Mooring)

Bethlehem Foundry & Machine Co. (Cast Iron), Front, South Bethlehem, Pa.

Posts (Railing, Brass)

GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Provi-dence, R. I. (See adv. index, end of book)
Western Brass Mfg. Works (For Office Rail-lings, etc.), 21st & Rockwell, Chicago, Ill.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Posts (Railway Signal)

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works Harvey, Ill.

Posts & Ties (Pit)

Pittsburg Pit Post Co., Arrott bldg., Pittsburg, Pa.

Potash

Babbitt, B. T., 64 Wash'n, New York
Billings, Clapp & Co., Boston, Mass.
Bower, Henry Chemical Mfg. Co. (Yellow Prussiate of Potash), 29th & Gray's Ferry rd, Phila., Pa.
Brower, Jno. & Co., 16 Water, New York
Harshaw, Fuller & Goodwin Co. (Bichromate & Cyanide), Cleveland, O.
Hirsh, Leon & Son (Pearl Ash), 368 G'wich, New York
International Chemical Co., Camden, N. J.
Jones, Enos F. Chemical Co. (Pearl Ash), 51 Jay, New York
Mallinckrodt Chemical Works (Caustic), St. Louis, Mo.
Mechling Bros. Mfg. Co. (Granulated Caustic), Phila., Pa.
New York Chemical Works, 261 Greenwich, New York
North American Chemical Co., Bay City, Mich.
Penna. Salt Mfg. Co., Phila., Pa.
Powers-Weightman-Rosengarten Co., Phila., Pa.
Roberts Chemical Co., Niagara Falls, N. Y.
Roessler & Hasslacher Chemical Co. (Prus-siate, Carbonate, Caustic, Chlorate, etc.), 100 Williams, New York
Solvay Process Co. (Caustic), Syracuse, N. Y.
Talcott, C. H. & Co. (Rock, First Sorts), Hartford, Conn.
Thomsen Chemical Co., Baltimore, Md.
Wiarda, Jno. & Co. (Carbonate, Cyanide, Caustic & First Sorts), Brooklyn, N. Y.

Potato Coverers & Hillers

Allen, S. L. & Co. ("Planet, Jr."), 1017 Mar-ket, Phila., Pa.
Caledonia Bean Harvester Works, Caledonia, Champlon Drill Co., Avon, N. Y.
Champlain Agricultural Works ("Palmer" Hoe & Coverer), Champlain, N. Y.
Dorsch, John & Sons (Combination Hiller & Digger), Milwaukee, Wis.
Doughten, H. W. ("Darnell's" Furrower & Cov-erer), Moorestown, N. J.
Eddy, W. Plow Co. (Coverer), Greenwich, N. Y.
Empire Plow Co., Cleveland, O.
Everts & Andrews (Hiller), Meridian, N. Y.
Hirsch Bros. (Hillers), Milwaukee, Wis.
Hussey Plow Co., N Berwick, Me.
Le Roy Plow Co., Le Roy, N. Y.
Munnsville Plow Co., Munnsville, N. Y.

New York Agricultural Co., Boonton, N. J., &
51 Cliff, New York
Northwestern Steel & Iron Works, Eau Claire,
Wis.
Nowvick, J. H. & Sons (Coverer & Digger),
Bloomsburg, Pa.
Rowell, I. B. & Co. (Hillers), Menomonee Falls,
Wis.
Sweet, Geo. Mfg. Co. (Hiller), Dansville, N. Y.
Syracuse Chilled Flow Co., Syracuse, N. Y.
Yorks, W. R., Honeoye Falls, N. Y.

Potato Smashers

Erle Specialty Co., Erie, Pa.

Potentiometers

Leeds & Northrup Co., 4901 Stenton av, Gtn,
Phila., Pa.

Pothheads & Sleeves

Bissell, F. Co. ("Novelty"), Toledo, O.
O K O N I T E C O. ("Candee"), 253
Way, New York. (See adv. index, end of
book)

Pots (Annealing)

Cornell, J. B. & J. M. Co., 26th & 11th av,
New York
MacKenzie's Duncan & Sons Co., Trenton, N. J.
Morgan Construction Co., Worcester, Mass.
Phila. Roll & Machine Co., Phila., Pa.
STRONG, CARLISLE & HAMMOND CO.,
336-344 Frankfort av., N. W., Cleveland,
O. (See adv. index, end of book)

Pots (Asphalt & Mastic)

Evans, F. H., 596 Kent av, Brooklyn, N. Y.

Pots (Chemical)

Bethlehem Foundry & Machine Co. (Cast Iron),
Front, South Bethlehem, Pa.
Caroline Iron Works (Cast Iron Nitre Pots),
723 S Caroline, Baltimore, Md.
Cornell, J. B. & J. M. Co., 26th & 11th av,
New York
MacKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index, end
of book)
Moore, Sam'l L. & Sons Corp'n, Elizabeth,
N. J.

Pots (Fire)

(See also Furnaces Gasoline Blow)

Barthel Blow Lamp Co. ("Barthel"), Boston,
Mass.
Berger Bros. Co., 237 Arch, Phila., Pa.
Best Light Co., Canton, O.
Canedy-Otto Mfg. Co. ("Royal" Needs No
Clay), Chicago Heights, Ill.
Clayton & Lambert Mfg. Co. (Gasoline), De-
troit, Mich.
Detroit Heating & Lighting Co., Detroit, Mich.
Fulton Iron Works, Detroit, Mich.
Globe Brass Works, Detroit, Mich.
Haines, Jones & Cadbury Co., Phila., Pa.
Hull, J. S. Mfg. Co. ("Hull" Patent for Can-
ners, etc.), Baltimore, Md.
Kemp, C. M. Mfg. Co. ("Climax," Gas), 401
E. Oliver, Baltimore, Md.
Phillips & Harmon ("Warrior" Gasoline), North-
ville, Mich.
Schneider & Trenkamp Co. (Works), Clevel-
and, O.
Turner Brass Works, Sycamore, Ill.
Wotherspoon, Jas. R. (Tinsmiths), 238 N.
Front, Phila., Pa.

Pots (Galvanizing)

(See Kettles, Galvanizing)

Pots (Glass Melting)

(See Glass House Clay Supplies)

*Pots (Glue)

(See also Heaters, Glue)

BECK, CHAS. PAPER CO. (LTD), 607
Chestnut, Phila., Pa. (See adv. index,
end of book)
GENERAL ELECTRIC CO. (Electric),
Schenectady, N. Y., & 30 Church, New York.
(See adv. index & branch offices, end of book)
HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

KNOWLTON, M. D. CO., Rochester, N. Y.
(See adv. index & branch offices, end of book)
WESTINGHOUSE ELECTRIC & MFG.
Co. (Electric), Union Bank bldg, Pittsburg,
Pa. (See adv. index & branch offices, end
of book)
WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of
book)

Pots (Lead)

Eastwood Wire Mfg. Co., Belleville, N. J.

Pots (Marking)

Bradley, A. J. ("Bradley" Combination "Ball"
Marking & Stencil), 101 Beekman, New
York
Central Stamping Co., 174 Fulton, New York
Geuder & Paeschke & Frey Co. (Pieced Tin),
Milwaukee, Wis.
Hansou, C. H., 44 Clark, Chicago, Ill.
WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of
book)

*Pots (Melting)

American Fdry. & Mfg. Co., St. Louis, Mo.
CANTON FOUNDRY & MACHINE CO.
(Cast Iron), Canton, O. (See adv. index,
end of book)
Crane, W. M. Co. ("Vulcan"), 16 W 32nd,
Dayton Supply Co., Dayton, O.
Glenn Mfg. Co., St. Charles, Ill.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
Orchard, S. J. (Gas), 49 Frankfort, New York
STRONG, CARLISLE & HAMMOND CO.,
336-344 Frankfort av., N. W., Cleveland,
O. (See adv. index, end of book)

Pots (Mixing)

Graham, Chas. Chemical Pottery Works
(Stoneware), 986 Met. av., Brooklyn, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

Pots (Nitre)

Larrabee, H. C. & Co. (for Sulphur or Py-
rites), Baltimore, Md.

*Pots (Paste)

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

*Pots (Salinometer)

NATIONAL GAUGE CO., 168 8th, Brook-
lyn, N. Y. (See adv. index, end of book)

Pots (Slag)

Eastwood Wire Mfg. Co., Belleville, N. J.
Power & Mining Machinery Co., Cudahy, Wis.

Pots (Solder)

American Electrical Heater Co. (Electric),
Detroit, Mich.
American Fdry. & Mfg. Co., St. Louis, Mo.
BERNZ, OTTO, 13th & S. Orange
av, Newark, N. J. (See adv. index, end
of book)
CENTRAL FOUNDRY CO., 37 Wall,
New York. (See adv. index, end of book)
Glenn Mfg. Co., St. Charles, Ill.
Griswold Mfg. Co. (Solder Pots), Erie, Pa.
Johnson, Wm. Hedenberg Works, Newark, N. J.
Jones Hollow Wool Co., Baltimore, Md.
Kupferle, Jno. C. Fdry. Co., St. Louis, Mo.
Modern Iron Works, Quincy, Ill.
Mott, J. L. Iron Works, 118 5th av, New
York
Osborne, C. S. & Co., Harrison, N. J.
Phillips & Harmon (Cast Metal for Solder,
Babbitt Metal, etc.), Northville, Mich.
Stortz, John & Son, 210 Vine, Phila., Pa.
Turner Brass Works, Sycamore, Ill.
Vulcan Electric Heating Co. ("Vulcan," Elec-
tric), 71 W Jackson boul., Chicago, Ill.

*Pots (Sprinkling, Foundry)

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

Pots (Stencil Marking)

(See Pots, Marking)

Pots (Tallow)

Akron Mfg. Co. (Heavy Tin), Akron, O.
American Tube & Stamping Co., Bridgeport,
Conn.
Gem Mfg. Co. ("Gem" Heavy Brazed Steel),
Pittsburg, Pa.
Johnson Mfg. Co., Urbana, O.
KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)
Noera Mfg. Co. (Nickel Plated Steel), Water-
bury, Conn.
Wall, P. Mfg. Supply Co., Allegheny, Pa.

Pots (Tempering)

National Tube Co. ("Shelby" Seamless Steel
Tubing), Pittsburg, Pa.

Pots (Watering)

Atlantic Stamping Co. ("Atlantic," Sprink-
ling, Galvanized Iron & Tin), Rochester,
N. Y.
Central Stamping Co., 174 Fulton, New York
Dover Stamping & Mfg. Co., Cambridge, Mass.
Geuder & Paeschke & Frey Co. (Galvanized
Iron, etc.), Milwaukee, Wis.
Wotherspoon, Jas. R. ("Wotherspoon"), 238
N. Front, Phila., Pa.

Potters' Supplies

Golding & Sons Co. (Clays, Feldspar, etc.),
Wilmington, Del.

Pounders (Steak)

Arcade Mfg. Co. (Or Meat), Freeport, Ill.

Powder Mfrs.

Aetna Powder Co., 143 Dearborn, Chicago, Ill.
Allentown Non-Freezing Powder Co. ("Tro-
jan"), Allentown, Pa.
American Powder Mills (Black & Smokeless),
131 State, Boston, Mass.
Anthony Powder Co., Ishpeming, Mich.
Austin Powder Co., Cleveland, O.
Burton Powder Co. (Blasting), Pittsburg, Pa.
California Vigorit Powder Co. (Explosive), San
Francisco, Cal.
Cressona Powder Co. (Explosive), Pottsville,
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 National Powder Co., 200 5th av, New York
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 Peyton Chemical Works (Blasting), San Francisco, Cal.
 Rendrock Powder Co., 11 B'way, New York
 Roberts Powder Co., Shenandoah, Pa.
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 Shamokin Powder Co. (High Explosives), Shamokin, Pa.
 Sinnamahoning Powder Mfg. Co. (High Explosives), Emporium, Pa., & Huntington, W. Va.
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 Arnold, Hoffman & Co., Providence, R. I.
 Castner Electrolytic Alkali Co., Niagara Falls, N. Y.
 Clark, Fred G., Co., Cleveland, Ohio
 Ferguson Bros., 109 Chestnut, Phila., Pa.
 Fuerst Bros. & Co., 2 Stone, New York
 General Chemical Co., 25 Broad, New York
 Hill's, Edw., Sons & Co., 71 Pine, New York
 Hollingsworth & Peterson, Phila., Pa.
 Innis, Speiden & Co., 46 Cliff, New York
 Klipstein, A., & Co., 122 Pearl, New York
 Linder & Meyer, Boston, Mass.
 Merrimac Chemical Co., Boston, Mass.
 National Aniline & Chemical Co., 100 William, New York
 Pennsylvania Salt Mfg. Co., Phila., Pa.
 Riker, J. L. & D. S., 46 Cedar, New York.
 Roessler & Hasslacher Chemical Co., 100 William, New York
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 Wing & Evans, 22 William, New York
 Winkler, Isaac, & Bro., Cincinnati, Ohio

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 Vermont Farm Machine Co., Bellows Falls, Vt.

Prairie Hay for Packing, Etc.

Wolfe, Thos. J., Jr., Walkerton, Ind.

Press-Board

Case, A. Willard & Co. (Imitation), Manchester, Conn.
 Case Bros. (Inc.), Highland Park, Conn.
 Case-Risley Press Paper Co., Oneco, Conn.

Connecticut Pulp & Paper Co., Unionville, Conn.
 Crehore, Chas. F. & Son, Boston, Mass.
 Elkhart Bristol Board & Paper Co., Elkhart, Ind.
 Merwin Paper Co., Rainbow, Conn.
 New York & Penna. Co., 41 Park row, New York
 Newington Paper Co., Newington, Conn.
 Rogers Paper Co., South Manchester, Conn.
 Southern Fibre Co., New Orleans, La.

Press Roll Drives (Cylinder & Primary)

Moore & White Co., Phila., Pa.

Pressed Steel Specialties

(See also Steel, Pressed)

Gem Mfg. Co., Spruce nr 33d, Pittsburg, Pa.
 Globe Machine & Stamping Co., 3868 Hamilton av, Cleveland, O.
 Hydraulic Pressed Steel Co., E 61st, Cleveland, O.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
PRESSED STEEL TANK CO., Milwaukee, Wls. (See adv. index, end of book)
 Reiter, G. C. (Special Work), Canton, O.
 Standard Pressed Steel Co., 20th & Clearfield, Phila., Pa.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Presses (Arbor)

Barnes W. F. & Jno. Co., Rockford, Ill.
 Bartlett, E. E. ("Greenerd"), 326 A, Boston, Mass.
 Fox Machine Co., Grand Rapids, Mich.
 Johnson, Israel H., Jr., Co., 1422 Callowhill, Philadelphia, Pa.
 King Machine Tool Co., Clifton & Spring Grove avs., Cincinnati, O.
 Lucas Machine Tool Co., Cleveland, O.
 Marston, J. M. & Co. ("Greenerd"), 226 Ruggles, Boston, Mass.
 Niles-Bement-Pond Co., 111 B'way, New York
 Wilmarth & Morman, Grand Rapids, Mich.

Presses (Armature & Field Coil Segments)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Comstock, J. F. & Co. (For Armature Coils), Wilkes-Barre, Pa.
 Ferracute Machine Co., Bridgeton, N. J.

*Presses (Auger & Bit Heading)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

*Presses (Automatic, Disc Notching)

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*Presses (Automatic, Gang)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

*Presses (Automatic, Saw Tooth Notching)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Baling & Hay)

(See also Presses, Cotton)

Alamo Iron Works (Hay), San Antonio, Tex.
 Anderson Company (Hay, etc.), St. Paul, Minn.
 Ann Arbor Machine Co. ("Columbia" Hay), Ann Arbor, Mich.
 Auto Fedan Hay Press Co. (Auto Self Feed Hay Press), Topeka, Kans.
 Beatrice Rotary Baler Co. (Rotary), Beatrice, Neb.

BECK, CHAS. PAPER CO. (LTD.), (Paper Baling), 607 Chestnut, Phila., Pa. (See adv. index, end of book)

Beery Mfg. Co. (Hay), Upper Sandusky, O.
 Benicia Iron Wks (Inc.) (Hay), Benicia, Cal.
 Bradley, David Mfg. Co. (Hay), Bradley, Ill.
 Bullard, Walter (Hay), Chico, Cal.
 Cardwell Machine Co. (Hay), Richmond, Va.
 Castree & Shaw Co. (Hay), Owosso, Mich.
 Chattanooga Implement & Mfg. Co. (Hay), East Chattanooga, Tenn.
 Collins, F. F. Mfg. Co. (Hay), San Antonio, Tex.
 Collins Plow Co. (Hay, "Ell," "Noxall"), Quincy, Ill.
 Colton, G. D. & Co. (Hay), Galesburg, Ill.
 Copeland, Henry (Hay), Chattanooga, Tenn.
 Dain Mfg. Co. (Hay), Ottumwa, Iowa
 Dedericks, P. K. Sons (Hay), Albany, N. Y.
 De Loach Mill Mfg. Co. (Hay), Bridgeport, Conn.
 Dennis, Jno. & Co., Lowell, Mass.
 Eagle Mfg. Co. (Hay, etc.), Kansas City, Mo.
 Eclipse Hay Press Co. (Hay), Kansas City, Mo.
E L M E S, CHAS. F. ENGINEERING Works (Baling Only for Paper, Rags & Waste), cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Ertel, Geo. Co. (Hay), Quincy, Ill.
 Famous Mfg. Co. ("Champion," Good as Gold for Hay, Cardboard & Metal Scrap), East Chicago, Ind.
 Farrar Lumber Co. (Hay), Dalton, Ga.
 Hampton, Thos. F. (Hay), Honeybrook, Pa.
 Hasard, Wm. (Hay), Trumansburg, N. Y.
 Hendricks, D. B. & Co. (Hay, etc.), Kingston, N. Y.

Hercules Lever Jack Co., Irvington, N. J.
 Hobbs Mfg. Co. (Waste Baling), Worcester, Mass.
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 Kansas City Hay Press Co. (Hay, etc.), Kansas City, Mo.

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 Kinnard Press Co. (Hay), Minneapolis, Minn.
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Sandwich Mfg. Co. (Hay), Sandwich, Ill.
 Scott Mfg. Co. (Hay), Kansas City, Mo.
 Sikes Mfg. Co. (Hay), Ocilla, Ga.
 Sinclair-Scott Co., c Wells & Patapsco, Baltimore, Md.

Smith & Sons Mfg. Co. (Hay), Kansas City, Mo.
 Spencer, J. A. (Hay, "Favorite Alligator," "Hercules," "Perpetual"), Dwight, Ill.
 Strait, H. N. Mfg. Co. ("National," Hay), Kansas City, Mo.

Waterville Foundry & Mfg. Co., Waterville, Me.
 Watkins Hay Press Co., East Point, Ga.
WATSON-STILLMAN CO. (Hydraulic Baling), 50 Church, New York. (See adv. index, end of book)

Williams Buggy Co. (Hay), Macon, Ga.
 Whitehurst, R. W. Co. (Hay), Norfolk, Va.
 Woodruff Hardware & Mfg. Co. ("Woodruff," Hay), Windsor, Ga.
 Whitman Agricultural Co. (Steam, Hand Power, Hay), 6900 S B'way, St. Louis, Mo.

*Presses (Beet Testing)

MacKINNON BOILER & MACHINE Co. (Hydraulic & Hand Power), Bay City, Mich. (See adv. index, end of book)

*Presses (Belting)

E L M E S, CHAS. F. ENGINEERING Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Presses (Bench)

(See also Presses, Power)

Balrd Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Ferracute Machine Co., Bridgeton, N. J.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Perkins Machine Co., Warren, Mass.
 Springfield Machine Tool Co., Springfield, O.

Presses (Bending)

Alliance Machine Co., Alliance, O.
 Bethlehem Steel Co. (Hydraulic), South Bethlehem, Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
ELMES, CHAS. F. ENGINEERING Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Presses (Bicycle Chain)

(See Presses, Power)

Presses (Bicycle Saddle)

Burrongs, Chas. Co., 141 Commerce, Newark, N. J.

Presses (Blacksmiths' Drill)

(See Drills, Blacksmiths')

Presses (Blanking)

(See Presses, Power)

*Presses (Bliss Inclined)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Box)

Chase Turbine Mfg. Co. (Automatic), Orange, Mass.
Fischer, E. Machine Works (Clamp Press), 710 Carroll av., Chicago, Ill.

Presses (Brick)

(See Machines, Brick Press)

Presses (Broaching)

American Can Co., 135 Adams, Chicago, Ill.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
ELMES, CHAS. F. ENGINEERING Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Logemann Bros. Co. (Hydraulic), Milwaukee, Wis.
 Perkins Machine Co., Warren, Mass.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

*Presses (Bullet Lubricating & Sizing)

Ideal Mfg. Co., New Haven, Conn.

Presses (Bumping)

Swaine, F. J. Co., St. Louis, Mo.
 West Mfg. Co., 374 7th, Buffalo, N. Y.

*Presses (Cam Drawing)

(See also Presses, Drawing; also Presses, Power)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Car Wheel)

(See also Presses, Hydrostatic Wheel)

Bethlehem Steel Co., South Bethlehem, Pa.
 Chambersburg Engineering Co., Chambersburg, Pa.

DUDGEON, RICHARD, 24 Columbia, New York. (See adv. index, end of book)

ELMES, CHAS. F. ENGINEERING Works (Paper, Rags & Waste), cor. Fulton & N. Sangamon, Chicago, Ill. (See adv. index, end of book)

Hydro Press Co. (Hydraulic), Rochester, N. Y.
 Logemann Bros. Co., Milwaukee, Wis.
 Niles-Bement-Pond Co., 111 B'way, New York
 Olsen, Titus & Co., 500 N 12th, Phila., Pa.

REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
 Sellers, Wm. & Co., 1600 Hamilton, Phila., Pa.
WATSON-STILLMAN CO., 50 Cortlandt New York. (See adv. index, end of book)
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Presses (Card Cutting)

(See Card Cutting Machines)

Presses (Card Printing)

Automatic Printing Press Co. (Automatic Self-Feeding), 237 5th av., Chicago, Ill.

Presses (Cheese)

Burrell, D. H. & Co. ("Sprague" Adjustable Continuous Pressure Gang & "Fraser" Gang Presses & Hoops), Little Falls, N. Y.
 Creamery Package Mfg. Co., 182 E Kinzie, Chicago, Ill.

Dairy Specialty Co., West Chester, Pa.
 Dean Mfg. Co., Seymour, Wis.
 Gowanda Agricultural Works Co., Gowanda, N. Y.

Jones, Frank L. (Gang), Utica, N. Y.
 Moseley & Stoddard Mfg. Co., Rutland, Vt.
 Reid, A. H., Creamery & Dairy Supply Co., Philadelphia, Pa.
 Sharples Separator Co. (Gang, "Helmer," "Jespersen" & "Fraser" Patents, etc.), West Chester, Pa.
 Vermont Farm Machinery Co., Bellows Falls, Vt.

Presses (Cider)

(See Presses, Wine & Cider)

Presses (Cloth Cutting)

(See Cloth Cutting Machines in Textile Machinery & Supplies)

Presses (Coil)

Oliver Elec. & Mfg. Co. ("Precision"), St. Louis, Mo.
 Smith & Wallace ("Clarke"), Woburn, Mass.

Presses (Coining)

(See Coining Machines)

*Presses (Collet)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Compo Molding)

Andrew, M. L. & Co., 2852 Spring Grove av., Cincinnati, O.

Presses (Concrete)

(See Concrete Hollow Building Block Machinery)

Presses (Continuous)

Anderson, V. D. Co. (Expellers for Oil or Moisture), Cleveland, O.

*Presses (Continuous Abattoir)

KUTZTOWN FOUNDRY & MACHINE CO. ("Edgerton"), 116 N. Broad, Phila., Pa. (See adv. index & branch offices, end of book)

Presses (Copying)

Bailey Mfg. Co., 159 Leonard, New York
 Chicago Scale Co., 296 W Jackson houl, Chicago, Ill.
 Fairbanks Co., 186 Lafayette, New York
 Hill, B. B. Mfg. Co., 1020 New Market, Phila., Pa.
 Hoe, R. & Co., 504 Grand, New York
 Howe Scale Co., Rutland, Vt.
 Illinois Iron & Bolt Co., Carpentersville, Ill.
 Phila. Novelty Mfg. Co., N 13th & Noble, Phila., Pa.

Prldmore, Henry B. (Automatic), 918 S Rockwell, Chicago, Ill.

Racine Malleable & Wrought Iron Co., Racine, Wis.

Roneo Co. ("Roneo" Automatic Copying & Cutting), 332 B'way, New York

Rotopress Mfg. Co. ("Rotopress," "Quick Easy"), Marlon, Ind.

Shriver, T. & Co., Harrison, N. J.

Southern Skeln & Foundry Co., Chattanooga, Tenn.

Tatum, Samuel C. Co., Cincinnati, O.

Presses (Cotton)

Adams, W. T. Machine Co., Corinth, Miss.
 Attalla Foundry & Machine Co., Attalla, Ala.
 Bushnell, Geo. H., Press Co., Thompsonville, Conn.

Cardwell Machine Co., Richmond, Va.
 Chickasaw Iron Works, Memphis, Tenn.

Coldwell-Wilcox Co., Newburgh, N. Y.
 Cole, R. D. Mfg. Co., Newman, Ga.

Continental Gin Co., Bridgewater, Mass., & Birmingham, Ala.

Copeland, Henry, Chattanooga, Tenn.

Cornell, J. B. & J. M. Co., 26th & 11th av., New York

Dederick's, P. K. Sons, Albany, N. Y.

Ertel, George Co., Quincy, Ill.

Famous Mfg. Co., East Chicago, Ind.

Georgia Agricultural Works, Fort Valley, Ga.

Gullet's Gin Co., Amite, La., & 606 Common, New Orleans, La.

Hyde, C. J., Meridian, Miss.

Hydraulic Press Mfg. Co., Mount Gilead, O.

Janney & Co., Montgomery, Ala.

Kingsland Mfg. Co. (Steam), St. Louis, Mo.

Liddell Co. (Inc.), Charlotte, N. C.

Livermore Foundry & Machine Co., Memphis, Tenn.

Lomhard Iron Works & Supply Co., Augusta, Ga.

Lummas, F. H. Sons Co., Columbus, Ga.

Maurer, F. & Co., Spencer, Ia.

Means, J. L. Machinery Co., Shreveport, La.

Mecklenburg Iron Works, Charlotte, N. C.

Miller, O. H., Fort Valley, Ga.

Murray Ginning System Co., Dallas, Tex.

Pusey & Jones Co., Wilmington, Del.

Reading Iron Co., Reading, Pa.

Schofield, J. S. Sons Co., Macon, Ga.

Sinclair-Scott, Baltimore, Md.

Southern Engine & Boiler Works, Jackson, Tenn.

Southern Standard Press Co., Meridan, Miss.

Stedman Foundry & Machine Works, Aurora, Ind.

Thomas-Fordyce Mfg. Co., Little Rock, Ark.

Valk & Murdoch Iron Works, Charlotte, S. C.

Van Winkle, E. Gin & Machine Works, Atlanta, Ga.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

West Point Iron Works, West Point, Ga.

Whitehurst, R. W. Co., Norfolk, Va.

Wing-Sayle Foundry & Machine Co., Little Rock, Ark.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

*Presses (Cotton Bat)

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)

Presses (Cotton Seed Hull)

Cardwell Machine Co., Richmond, Va.

Copeland, Henry, Chattanooga, Tenn.

Dederick's, P. K. Sons, Albany, N. Y.

Gullet's Magnolia Gin Agency, 606 Common, New Orleans, La., & Amite City, La.

Kingsland Mfg. Co., St. Louis, Mo.

Liddell Co., Charlotte, N. C.

Murray Ginning Process Co., Dallas, Tex.

Southern Standard Press Co., Meridian, Miss.

Valk & Murdoch Iron Works, Charleston, S. C.

Whitehurst, R. W. Co., Norfolk, Va.

Whitman Agricultural Co., St. Louis, Mo.

Presses (Cotton Seed Oil)

Buckeye Iron & Brass Works, Dayton, O.

Bushnell, G. H. Press Co., Thompsonville, Conn.

Codd, E. J., Co., 700-708 S. Caroline, Baltimore, Md.

Famous Mfg. Co. (Cotton Seed Hull), East Chicago, Ind.

French Oil Mill Machinery Co., Piqua, O.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Shriver, T. & Co., Harrison, N. J.

Presses (Crank Pin)

Alliance Machine Co., Alliance, O.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
DUDGEON, RICHARD, 24 Columbia, New York. (See adv. index, end of book)
ELMES, CHAS. F. ENGINEERING Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Olsen, Tinus & Co., 500 N 12th, Phila., Pa.
 Perkins Machine Co., Warren, Mass.
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

Presses (Cutting)

(See Presses, Power)

Presses (Dial)

(See Presses, Power)

*Presses (Dial, Feed)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Die)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Kidder, R. E., Worcester, Mass.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Perkins Machine Co., Warren, Mass. (hook)
 Seelye Mfg. Co., 118 South, Boston, Mass.
 Seyhold Machine Co., Dayton, O.
 Sheridan, T. W. & C. B. Co. (Bookbinders), 56 Duane, New York
 Swaine, F. J. Co., St. Louis, Mo.
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)
 Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Presses (Die Cutting)

Hinze, H., Tribune bldg., New York
 Oswego Machine Works (Neil Gray, Jr., Prop.) ("Oswego" for Printers & Box Makers, etc.), Oswego, N. Y.

Presses (Disc Notching)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Ferracute Machine Co., Bridgeton, N. J.

Presses (Drawing)

(See also Sheet Metal Workers' Machines & Tools)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
 American Can Co., 135 Adams, Chicago, Ill.
 Blake & Johnson Co., Waterbury, Conn.
 Baird Machine Co., Oakville, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Ferracute Machine Co., Bridgeton, N. J.
 Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
 Hickok, W. O. Mfg. Co., Harrisburg, Pa.
 Leffler, Charles & Co. (Sheet Metal, etc.), 63 Clymer, Brooklyn, N. Y.
 Michigan Machinery Mfg. Co., Ypsilanti, Mich.
NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)
 Perkins Machine Co., Warren, Mass.
 Richard Mfg. Co., Bloomsburg, Pa.
 Stoll, D. H. Co., Buffalo, N. Y.
 Swaine, F. J. Co., St. Louis, Mo.
 Toledo Machine & Tool Co., Toledo, O.
 V. & O. Press Co., Glendale, L. I., N. Y.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
 Woonsocket Machine & Press Co., Woonsocket, R. I.
 Zeh & Hahnemann (Double Acting), Vanderpool & Av. A, Newark, N. J.

Presses (Drill)

(See Drills, Various Kinds)

Presses (Drop)

(See also Hammers, Drop)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.
 American Tube & Stamping Co., Bridgeport, Conn.
 Billings & Spencer Co., Hartford, Conn.
 Blake & Johnson Co., Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO. ("Universal" for Metal Ceilings), Canton, O. (See adv. index, end of book)
 Ferracute Machine Co., Bridgeton, N. J.
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
 Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
 Johnson, Israel H., Jr., Co., 337 N 15th, Phila., Pa.
 Keene, Geo. C. & Co., Cincinnati, O.
 Leffler, Chas. & Co. (Sheet Metal, Can Makers, etc.), 63 Clymer, Brooklyn, N. Y.
 Miner & Peck Mfg. Co., New Haven, Conn.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.
 Oliver, W. W. Mfg. Co. (Jewelers, etc.), 1483 Niagara, Buffalo, N. Y.
 Perkins Machine Co., Warren, Mass.
 Robinson, J. M. Mfg. Co., Cincinnati, O.
 Swaine, Fred. J. Co., St. Louis, Mo.
 Toledo Machine & Tool Co., Toledo, O.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
 Williams, White & Co., Moline, Ill.
 Woolly Foundry & Machine Co., Anderson, Ind.

Presses (Embossing)

Adriance Machine Works (Sheet Metal, Leather, Paper, etc.), 254 Van Brunt, Brooklyn, N. Y.
 American Can Co. ("Rudolphi" & "Krummel," Toggie & Four Post Toggie), 135 Adams, Chicago, Ill.
BECK, CHAS. PAPER CO. (LTD.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Carver, C. R. Co., 15th & Lehigh av, Phila., Pa.
 Currier, Cyrus & Sons, Newark, N. J.
 Dewes, A. Co. ("Columbia"), 243 Centre, New York
ELMES, CHAS. F. ENGINEERING Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Ferracute Machine Co. (Sheet Metal), Bridgeton, N. J.
 Grammes, L. F., & Sons (Gold & Wood), Allentown, Pa.
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
 Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.
 Hickok, W. O. Mfg. Co., Harrisburg, Pa.
 Hinze, H., Tribune bldg., New York
 Hydraulie Press Mfg. Co., Mount Gilead, O.
 Jones, W. E., 14 Water, Brooklyn, N. Y.
 Loy & Nawrath, Newark, N. J.
 Manville, E. J. Machine Co., Waterbury, Conn.
NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Ohl, Geo. A. & Co. (Metal), 157 Oraton, Newark, N. J.
 Perkins Machine Co., Warren, Mass.
 Roovers Bros. (For Metal Name Plates, Patent Letter Plates, Tags, Labels, etc.), 100 Schermerhorn, Brooklyn, N. Y.
 Swaine, F. J. Co. (Sheet Metal), St. Louis, Mo.
 Toledo Machine & Tool Co., Toledo, O.
 Traud, Alex. Co. (For Leather), Newark, N. J.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.
WATSON-STILLMAN CO., 50 Church, New York. (See adv. index, end of book)

Presses (Engravers' Transfer)

Currier, Cyrus & Sons, Newark, N. J.

Presses (Excelsior Baling)

(See Presses, Baling & Hay)

Presses (Fillet)

Fox Machine Co., Grand Rapids, Mich.

Presses (Filter)

Albright-Nell Co., Chicago, Ill.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Blaisdell Co. ("Blaisdell" Slime Treatment), Los Angeles, Cal.
 Blymyer Iron Works Co., Cincinnati, O.
 Bonnot Company, Canton, O.
 Bushnell, G. H. Press Co., Thompsonville, Conn.
 Butters Patent Vacuum Filter Co. ("Butters" Vacuum Filter for Slime Treatment), San Francisco, Cal.
 Carbondale Machine Co., Carbondale, Pa.
 Carey, Samuel, 17 State, New York
 Cornell, J. B. & J. M. Co., 26th & 11th av, New York
 Currier, Cyrus & Sons, Newark, N. J.
 Dyer Co., New England bldg., Cleveland, O.
ELMES, CHAS. F. ENGINEERING Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Field Force Pump Co., Elmira, N. Y.
 Erhart, Chris., 1237 W 6th, Cincinnati, O.
 Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
 Hydraulie Press Mfg. Co., Mount Gilead, O.
 Kelly Filter Press Co. ("Kelly," for Treatment of Mill Slimes, etc.), Salt Lake City, Utah
 Kilby Mfg. Co., Cleveland, O.
 Krajewski-Pesant Co., 21 State, New York
 Logemann Bros. Co., Milwaukee, Wis.
 Love Bros., Inc. (for Glucose), Aurora, Ill.
 Louisville Drying Machinery Co., Louisville, Ky.
 Mine & Smelter Supply Co., Blake & 17th, Denver, Colo.
 Moore Filter Co. ("Moore," Slime Process), 170 B'way, New York
 Moore, Samuel L. & Sons Corp'n, Elizabeth, N. J.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Perrin, Wm. R., & Co. (Mining, Slime Treatment, etc.), 46th & Loomis, Chicago, Ill.
PLATT IRON WORKS CO. (For Chemicals, Oils, Sugar, Starch, Varnish, etc.) (See adv. index & branch offices, end of book)
 Pusey & Jones Co., Wilmington, Del.
 Redfield, Robt. S., & Co. (for Chemicals, Starch, Oils, Glucose, Sugar, Varnish, etc.), 90 West, New York. Works, Elizabeth, N. J.
 Royal Machine Co., Newark, N. J.
 Shriver, T. & Co., Harrison, N. J.
 Simpson Foundry Co., 26 Rodney, Brooklyn, N. Y.
 Sperry, D. R. & Co., Batavia, Ill.
 Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
 Traud, Alex. Co., 5 Maine, Newark, N. J.
 Vogt, Henry Machine Co., Louisville, Ky.
 Whitney Iron Works Co., New Orleans, La.

Presses (Flanging)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Chambersburg Engineering Co. (Sectional), Chambersburg, Pa.
ELMES, CHAS. F. ENGINEERING Works, cor. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)
 Perkins Machine Co. (For Heavy Flanging), Warren, Mass.
REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
 Wood, Wm. H. (Sectional), Media, Pa.

Presses (Foot)

American Can Co. (Pendulum, Floor or Bench), 135 Adams, Chicago, Ill.
 Astoria Iron Works (Inc.) (Die Presses for Salmon Canneries, etc.), Astoria, Oreg.
 Ayars Machine Co. (For Can Making, etc.), Salem, N. J.
 Baird Machine Co., Oakville, Conn.
 Bender, Ph. J. & Sons, 87 Frankfort, New York
 Blake & Johnson Co., Waterbury, Conn.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Chapman, W. H., & Co. (Jewelers'), 229 Mulberry, Newark, N. J.
 Clough, R. M., Tolland, Conn.
 Cook, Thos. W. G., 4 Reade, New York
 Dewes, A. Co., 243 Centre, New York
 Draher, John, Waterbury, Conn.
 Ferracute Machine Co., Bridgeton, N. J.

HEARTLEY MACHINE, VARIETY

Iron & Tool Works Toledo, O. (See adv. index, end of book)

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Johnson, Israel H., Jr., Co., Phila., Pa.

Jones, W. E., 14 Water, Brooklyn, N. Y.

La Salle Machine & Tool Co., La Salle, Ill.

Leffler, Chas. & Co. (Toggle Lever, Sheet Metal, etc.), 63 Clymer, Brooklyn, N. Y.

Loyd, John Co., 562 Water, New York

Manville E. J. Machine Co. (Single), Waterbury, Conn.

Michigan Machinery Mfg. Co., Ypsilanti, Mich.

NIAGARA MACHINE & TOOL WKS.,

Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Perkins Machine Co., Warren, Mass.

Quadriga Mfg. Co., 18 S. Canal, Chicago, Ill.

Royal Machine Co., 61 N. J. R. R. av, Newark, N. J.

SHUSTER, F. B. CO. (Toggle, Double**& Pendulum Lever),** New Haven, Conn. (See adv. index, end of book)

Simpson Foundry Co., 28 Rodney, Brooklyn, N. Y.

Slaysman & Co. (Can Makers', etc.), 718 E

Pratt, Baltimore, Md.

Stimpson, Edwin B. & Son (Runching &

Perforating Leather, etc.), 31 Spruce, New

Swaine, F. J. Co., St. Louis, Mo.

Toledo Machine & Tool Co., Toledo, O.

Waterbury Farrel Foundry & Machine Co.,

Waterbury, Conn.

Zeh & Hahnemann, Vanderpool & Avenue A,

Newark, N. J.

***Presses for Lining Service
Pipe with Cement****UNION WATER METER CO., Wor-**

cester, Mass. (See adv. index, end of book)

Presses (Forging)

(See Presses, Drop; Presses, Hydraulic; Presses, Power; Hammers, Drop; Forging Machines)

Presses (Forming)

Alliance Machine Co., Alliance, O.

BLISS, E. W. CO., 19 Adams, Brook-

lyn, N. Y. (See adv. index, end of book)

Comstock, J. F. & Co. (Armature Coil),

Wilkes-Barre, Pa.

ELMES, CHARLES F. ENGINEERING

Works, cor. Fulton & Sangamon, Chicago,

Ill. (See adv. index, end of book)

NIAGARA MACHINE & TOOL WKS.,

Buffalo, N. Y. (See adv. index, end of book)

Perkins Machine Co., Warren, Mass.

Robinson, J. M. Mfg. Co. (Toggle), Cincinnati,

Ohio

Stoll, D. H. Co., Buffalo, N. Y.

Swaine, F. J. Co., St. Louis, Mo.

Waterbury Farrel Foundry & Machine Co.,

Waterbury, Conn.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut,

Phila., Pa.

Zeh & Hahnemann, Vanderpool & Av. A,

Newark, N. J.

Presses (Four Plate Printing)

Gould & Eberhardt (For Bank Notes, Checks, Postage Stamps, etc.), Newark, N. J.

Presses (Friction Clutch)

Baird Machine Co., Oakville, Conn.

Presses (Friction, Dial Feed)*BLISS, E. W. CO., 19 Adams, Brooklyn,**

N. Y. (See adv. index, end of book)

Presses (Fruit)

(See also Presses, Wine & Cider)

Hardware & Woodenware Mfg. Co. ("Brighton" for Family Use), 693 B'way, New York

Landers, Frary & Clark ("Universal"), New Brighton, Conn.

Northwestern Kitchenware Mfg. Co. ("Economy" Colander & Fruit Press), 120 N. 4th, Minneapolis, Minn.

Vogel, Wm., & Bros. ("Henis"), 37 S. 9th, Brooklyn, N. Y.

Wrightsville Hardware Co., Wrightsville, Pa.

Presses (Gang Tool)

Perkins Machine Co., Warren, Mass.

Waterbury Farrel Foundry & Machine Co.,

Waterbury, Conn.

Presses (Glass)

Sommerfeld Machine & Mfg. Co., 220 2d av, Pittsburgh, Pa.

Presses (Glue)*ADVANCE MACHINERY CO., Toledo, O.**

(See adv. index, end of book)

Presses (Gun Powder)*WATSON-STILLMAN CO., 50 Church, New**

York. (See adv. index, end of book)

Presses (Hand)**ELMES, CHAS. F. ENGINEERING**

Works, cor. Fulton & Sangamon, Chicago,

Ill. (See adv. index, end of book)

Perkins Machine Co., Warren, Mass.

Presses (Hand, for Rubber Mfrs.)**ELMES, CHAS. F. ENGINEERING**

Works, cor. Fulton & Sangamon, Chicago,

Ill. (See adv. index, end of book)

Williams Foundry & Machine Co., Akron, O.

Presses (Harness & Saddlers)

Osborne, C. S. & Co. ("C. S. O. & Co."),

Harrison, N. J.

Presses (Hay)

(See Presses, Baling & Hay)

Presses (Horizontal)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

BLISS, E. W. CO., 19 Adams, Brooklyn,

N. Y. (See adv. index, end of book)

ELMES, CHAS. F. ENGINEERING

Works, cor. Fulton & Sangamon, Chicago,

Ill. (See adv. index, end of book)

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Perkins Machine Co., Warren, Mass.

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American Can Co. (For Can Makers, etc.),

135 Adams, Chicago, Ill.

BLISS, E. W. CO., 19 Adams, Brooklyn,

N. Y. (See adv. index, end of book)

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HEARTLEY MACHINE, VARIETY IRON

& Tool Works, Toledo, O. (See adv. index, end of book)

Leffler, Chas. & Co., 61 Clymer, Brooklyn, N. Y.

NIAGARA MACHINE & TOOL WORKS,

Buffalo, N. Y. (See adv. index, end of book)

Perkins Machine Co., Warren, Mass.

Slaysman & Co. (For Can Makers), 718 E.

Pratt, Baltimore, Md.

Standard Machinery Co., Providence, R. I.

Stoll, D. H. Co., Buffalo, N. Y.

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Toledo Machine & Tool Co., Toledo, Ohio.

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Zeh & Hahnemann, Newark, N. J. Ill.

Presses (Hydraulic)

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(Inc.), Allentown, Pa.

Alliance Machine Co., Alliance, O.

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Birmingham Iron Foundry, Derby, Conn.

Boomer & Boschert Press Co., Syracuse, N. Y.

Builders' Iron Foundry, Providence, R. I.

Burrongs, Chas. Co., Newark, N. J.

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Cardwell Machine Co., Richmond, Va.

Chambersburg Engineering Co., Chambersburg,

Pa.

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Spence & Rideout, Nashua, N. H.

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Rubber Presses, etc.), Derby, Conn.

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Thomas-Albright Co., Goshen, Ind.

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Presses (Hydraulic Portable)

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Bethlehem Steel Co., South Bethlehem, Pa.

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cago, Ill.

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Bushnell, G. H. Press Co., Thompsonville,

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Hydraulic Press Mfg. Co., Mount Gilead, O.

PLATT IRON WORKS CO., Dayton, O.

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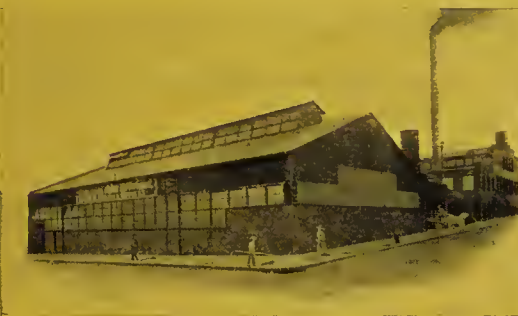
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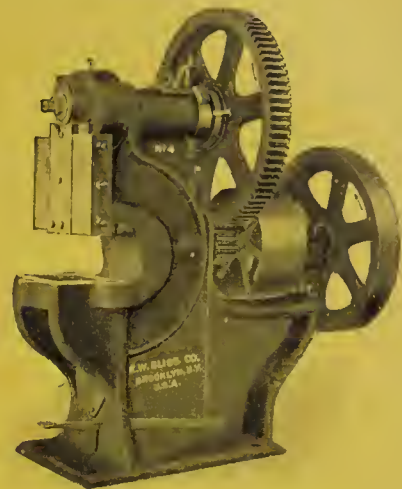
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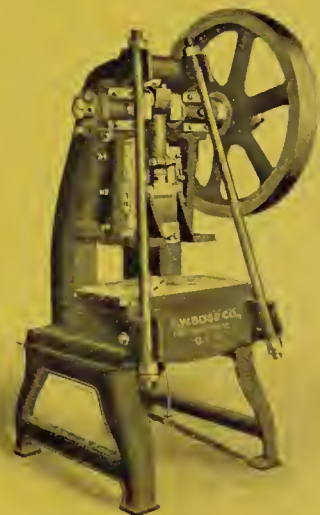
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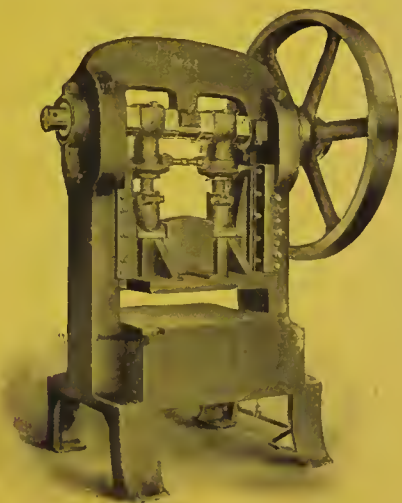
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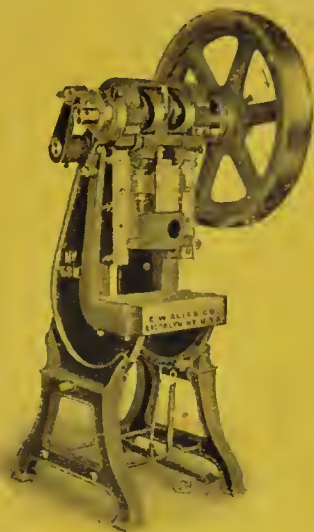
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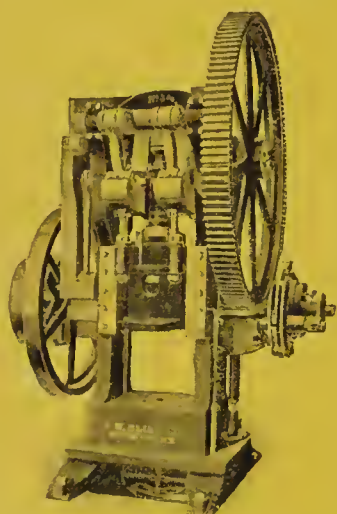
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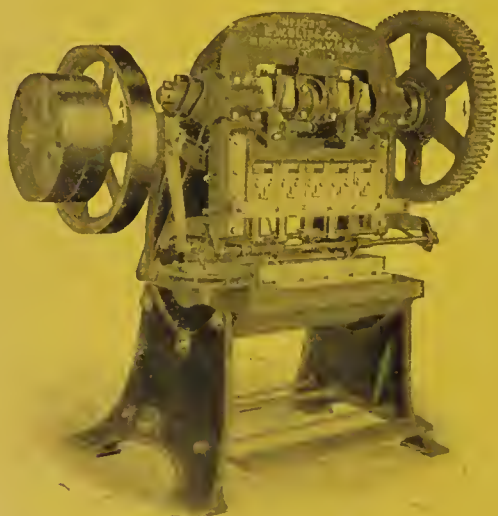
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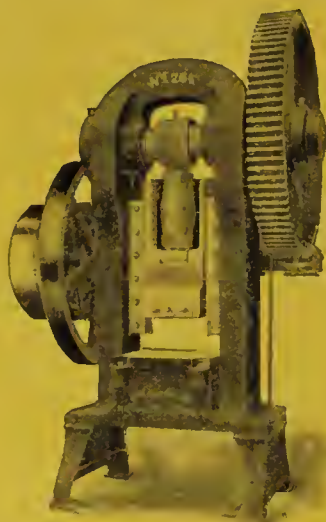
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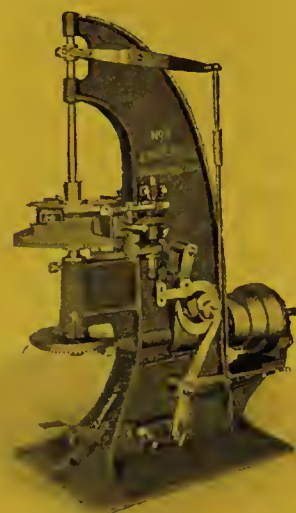
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(See Molding Machines, Foundry)

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 Bushnell, G. H. Press Co., Thompsonville, Conn.

Presses (Perforating)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Stimpson, Edwin B., & Son, 31 Spruce, New York

*Presses (Pickeye Forging)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Pipe Straightening)

United Engineering & Foundry Co. (For 6 to 12 inch Pipe), Farmers' Bank bldg, Pittsburgh, Pa.

Presses (Platen)

Hydro-Press Co., Rochester, N. Y.

Presses (Power)

Adriance Machine Works (Sheet Metal, Wire, Paper, etc.), 254 Van Brunt, Brooklyn, New York
 Alliance Machine Co. (Armature, Forging, Punching, etc.), Alliance, O.
 American Can Co. ("Rudolphi & Krummel" Patterns for Can Makers, etc.), 135 Adams, Chicago, Ill.
 Ams Max Machine Co. (For Can Makers), Mt. Vernon, N. Y.
 Astoria Iron Works (Inc.) (Die Presses for Salmon Canners, etc.), Astoria, Ore.
 Atlas Mfg. Co., Fostoria, O.
 Automatic Machine Co., Bridgeport, Conn.
 Automatic Specialty Co. (Sheet Metal, Paper, etc.), 6th & Baymiller, Cincinnati, Ohio
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 Baird Machine Co., Oakville, Conn.
 Bender, Ph. J. & Sons, 87 Frankfort, New York

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Blake & Johnson Co., Waterbury, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

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Clough, R. M., Tolland, Conn.

Consolidated Press & Tool Co., Hastings, Mich.

Cook, Henry C. Co., Ansonia, Conn.

Cook, Thos. W. G., 4 Reade, New York

Coulter & McKenzie Machine Co., Bridgeport, Conn.

Curtis & Marhle Machine Co., Worcester, Mass.

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Ferracute Machine Co., Bridgeton, N. J.

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Gohlke, Theo., 12th & Locust, St. Louis, Mo.

Griswold, Geo. M., 35 Union, New Haven, Conn.

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Hickok, W. O. Mfg. Co. (Toggle), Harrisburg, Pa.

Humphrey Machine Co. (Also Hand), Keene, N. H.

Hydraulic Press Mfg. Co., Mount Gilead, O.

Jones, W. E., 14 Water, Brooklyn, N. Y.

Leffler, Chas. & Co. (Sheet Metal Cans, Tinware, etc., in Ten Sizes), 63 Clymer, Brooklyn, N. Y.

Logemann Bros. Co. (Cutting), Milwaukee, Wis.

Long & Allstatter Co. (Belt, Motor or Steam Driven), Hamilton, O.

Loyd, John Co., 558 Water, New York

Manville Bros. Co., Waterbury, Conn.

Manville, E. J. Machine Co. (Single & Double Acting), Waterbury, Conn.

Michigan Mfg. Co., Ypsilanti, Mich.

Miner & Peck Mfg. Co., New Haven, Conn.

MORGAN ENGINEERING CO., Alliance O. (See adv. index & branch offices, end of book)

New Doty Mfg. Co., Janesville, Wis. (book)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Nilson, A. H. Machine Co., Bridgeport, Conn.

Ohls, Geo. A. & Co. (For Sheet Metal Workers), 157 Oraton, Newark, N. J.

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Perkins Machine Co. (Punching, Forging, Dial, etc.), Warren, Mass.

Perrin, Wm. R., & Co., 46th & Loomis, Chicago, Ill.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)

Richard Mfg. Co., Bloomsburg, Pa.

Rohinson, J. M. Mfg. Co., Cincinnati, O.

Sheridan, T. W. & C. B. Co. (Cutting), 58 Duane, New York

Simpson Foundry Co., 28 Rodney, Brooklyn, N. Y.

Slaysman & Co. (Can Makers, etc.), 718 E Pratt, Baltimore, Md.

Springfield Machine Tool Co., Springfield, Ohio

Standard Machinery Co., Providence, R. I.

Stimpson, Edwin B., Co. (Punching & Perforating), 31 Spruce, New York

Stoll, D. H. Co., Buffalo, N. Y.

STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Sutton, O. E. Co., Toledo, O.

Swaine, Fred J. Co. (Punching), 7th & O'Fallon, St. Louis, Mo.

Toledo Machine & Tool Co. (Double Geared), Toledo, O.

Torrington Mfg. Co. (Single or Double Action Cam or Crank), Torrington, Conn.

V. & O. Press Co., Glendale Station, L. I., N. Y.

Walsh, H. C. H. Co. (Inclinable Open Back), 2448 W Kinzie, Chicago, Ill.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Waterbury Machine Co. (Presses & Dies for Brass Goods), Waterbury, Conn.

Wheeler, Frank & Son, Meriden, Conn.

Wickes Bros., Saginaw, Mich.

Willard Machine & Tool Co., Cincinnati, O.
 Woolley Foundry & Machine Co., Anderson, Ind.

Zeh & Hahnemann (Inclinable, Straight Sided, etc.), Vanderpool & Avenue A, Newark, N. J.

Presses (Printing)

(See Printing Presses & Machinery)

Presses (Printing & Embossing)

American Multigraph Sales Co. ("Gammeter Multigraph" for Printing Office Forms, Fac-Simile Letters, etc.), Case av. & Kelly, Cleveland, O.

Boston Printing Press & Machinery Co. (Embossing & Half-tone Work), 176 Summer, Boston, Mass.

National Machine Co. (Cutting & Breasting), Hartford, Conn.

Presses (Pulley)

Bethlehem Steel Co., South Bethlehem, Pa.

Presses (Punch, Saw Teeth Cutting)

United States Rapid-Fire Gun & Power Co., Derby, Conn.

Presses (Punching)

(See Presses, Power)

Presses (Punching, Hand Power)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Presses (Rail Straightening)

Alliance Machine Co., Alliance, O.
 Hilles & Jones Co., Wilmington, Del.
 United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Presses (Reducing)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Leffler, Chas. & Co., 49 Clymer, Brooklyn, N. Y.
 Perkins Machine Co., Warren, Mass.
 Zeh & Hahnemann, Vanderpool & Av. A., Newark, N. J.

Presses (Riveting)

Alliance Machine Co., Alliance, O.
 BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Ferracute Machine Co., Bridgeton, N. J.
 HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
 NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Perkins Machine Co., Warren, Mass.
 Toledo Machine & Tool Co., Toledo, O.
 Williams, White & Co. (Horizontal), Moline, Ill.

*Presses (Roll Feed)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Rotary)

Pittsburg Machine Tool Co. ("Curtis"), Pittsburg, Pa.

Presses (Screw)

American Can Co. ("Rudolphi & Krummel" Hand & Power), 135 Adams, Chicago, Ill.
 American Process Co. (Automatic, Continuous), 62 William, New York
 Bender, Ph. J. & Sons, 87 Frankfort, New York
 BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
 Boomer & Boschart Press Co. (Power), Syracuse, N. Y.
 Burroughs, Chas. Co., Newark, N. J.
 Bushnell, G. H. Press Co., Thompsonville, Conn.
 Cook, Thos. W. G., 4 Reade, New York
 Cornell, J. B. & J. M. Co., 26th & 11th av., New York
 Crompton & Knowles Loom Works, Worcester, Mass.

Dennis, Jno. & Co. (For Hot Pressing), Lowell, Mass.

ELMES, CHAS. F. ENGINEERING
Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Ferracute Machine Co., Bridgeton N. J.

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Johnson, Israel H., Jr., Co., 337 N 15th, Philadelphia, Pa.

Keene, Geo. C. & Co., Cincinnati, O.

Lowell Machine Shop (Double Screw), Lowell, Mass.

Loyd, Jno. Co., 558 Water, New York

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Perkins Machine Co. (Hand & Power), Warren, Mass.

Perrin, Wm. R., & Co. (For Abattoirs), 46th & Loomis, Chicago, Ill.

Philadelphia Drying Machinery Co. (Power), 6721 Germantown av. Phila., Pa.

PRENTISS TOOL & SUPPLY CO., 115 Liberty, New York. (See adv. index & branch offices, end of book)

Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa., & 120 Liberty, New York

Robinson, J. M. Mfg. Co., Cincinnati, O.

Sellers, Wm. & Co. (Inc.) (For Forcing Wheels, Pulleys, etc.), 1600 Hamilton, Phila., Pa.

Smith, Drum & Co. (Power), 2503 Coral, Phila., Pa.

Spence & Rideout, Nashua, N. H.

Standish, Albert, 120 W Spring, Columbus, O.

Stimpson, Edwin B., Co., 31 Spruce, New York

Swaine, F. J. Co. (Arch, etc.), St. Louis, Mo.

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Presses (Seal)

Ashbury, Henry C., 16 Seneca, Buffalo, N. Y.

Crescent Seal & Stamp Co., Cambridge, O.

Handlan-Buck Mfg. Co. ("Handlan"), 212 N 3d, St. Louis, Mo.

MORRILL, CHAS. ("Morrill"), 277 B'way, New York. (See adv. index, end of book)

Murdock, James, Jr., Co., 116 Longworth, Cincinnati, O.

Ness, George M., Jr., 61 Fulton, New York

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Parker, T. M., Hartford, Conn.

Schwerdtle Stamp Co. (All Kinds), Bridgeport, Conn.

Smith, R. H. Mfg. Co., Springfield, Mass.

Stewart & Holiman, 201 B'way, New York

Utica Drop Forge & Tool Co., Utica, N. Y.

Presses (Sewer Pipe)

(See Sewer Pipe Machinery)

Presses (Shaft Straightening)

Brightman Mfg. Co., Shelby, O.

Logemann Bros. Co. (Hydraulic), Milwaukee, Wis.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Presses (Shearing)

Alliance Machine Co., Alliance, O.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Buffalo Forge Co., Buffalo, N. Y.

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Perkins Machine Co., Warren, Mass. (book)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Whitcomb Mfg. Co., Worcester, Mass.

Williams, White & Co., Moline, Ill.

Presses (Sheet Metal Working)

(See also Sheet Metal Workers' Machines & Tools)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Consolidated Press & Tool Co., Hastings, Mich.

ELMES, CHAS. F. ENGINEERING Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Perkins Machine Co., Warren, Mass.

Zeh & Hahnemann, Vanderpool & Ave. A, Newark, N. J.

Presses (Shook)

Chase Turbine Mfg. Co. (Power Driven for Driving Together the Mortised Edges of Shooks on Boxes), Orange, Mass.

Presses (Signature)

Sheridan, T. W. & C. B. Co., 56 Duane, New York

Presses (Skein)

Williams, White & Co., Moline, Ill.

Presses (Soap Makers')

(See also Soap Makers' Machinery)

Hersey Mfg. Co., 314 W. 2d, Boston, Mass.

Houchin, Aiken Co., 37 53d, Brooklyn, N. Y.

*Presses (Solder)

ELMES, CHAS. F. ENGINEERING Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Presses (Sprue)

(See Cutters, Sprue, Foot & Power)

*Presses (Stagger Feed)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Stamping)

Baird Machine Co., Oakville, Conn.

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Carver, C. R. Co., 15th & Lehigh av, Phila., Pa.

Ferracute Machine Co. (Sheet Metal), Bridge-ton, N. J.

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Hinze, H. (Book, Postal Card, etc.), Tribune bldg., New York

Logemann Bros. Co., Milwaukee, Wis.

Swaine, F. J. Co. (Sheet Metal), St. Louis, Mo.

Toledo Machine & Tool Co. (Sheet Metal), Toledo, Ohio

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Zeh & Hahnemann, Vanderpool & Ave. A, Newark, N. J.

*Presses (Starch)

ELMES, CHAS. F. ENGINEERING Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Presses (Stationers' Stamping)

Mead, A. G. ("Mead" for Fine Illuminated Stamping), 364 Atlantic av., Boston, Mass.

Presses (Stearline)

PLATT IRON WORKS CO. (Hydraulic), Dayton, O. (See adv. index & branch offices, end of book)

*Presses (Stiles Punching)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Straightening)

Geier, P. A., Co. ("Geier" Bench Straightening Press & Centers), 5112 St. Clair av., N. E., Cleveland, O.

MORSE TWIST DRILL & MACHINE CO. (For Round or Flat Stock), New Bedford, Mass. (See adv. index, end of book)

Presses (Sugar Filtering)

(See Filters, Mechanical, in Sugar Machinery)

Presses (Ticket Printing)

Kidder Press Co., Dover, N. H.

Wrigley, Thos. Co. ("Wrigley" Patent Local), 300 Dearborn, Chicago, Ill.

Presses (Tincture, Druggists')

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

Presses (Tire Welding)

(See Tire Welding Machines)

Presses (Tissue Paper Printing)

Kidder Press Co., Dover, N. H.

Presses (Tobacco)

Adams Tobacco Press Co., Quincy, Ill.

Ball, Mitchell & Co., Maysville, Ky.

Cutaway Harrow Co., Higganum, Conn.

Danbery Foundry Co. ("Parker" Portable), Ripley, O.

Grote Mfg. Co., Evansville, Ind.

Hydraulic Press Mfg. Co., Mount Gilead, O.

Nagley Mfg. Co., Lyons, N. Y.

Talbot & Sons, Richmond, Va.

*Presses (Toggle Drawing)

(See also Presses, Drawing; also Presses, Power)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Presses (Treadle)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Slaysman & Co. (Can Makers'), 718 E Pratt, Baltimore Md.

Presses (Trimming)

Adriance Machine Works, 254 Van Brunt, Brooklyn, N. Y.

American Can Co., 135 Adams, Chicago, Ill.

Baird Machine Co., Oakville, Conn.

Billings & Spencer Co., Hartford, Conn.

Consolidated Press & Tool Co., Hastings, Mich.

Cook, Thos. W. G., 4 Reade, New York

Crane, W. W. Foundry & Machine Works, Auburn, N. Y.

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)

Hibbard, Wm. H. Mfg. Co., 79 Washington, Brooklyn, N. Y.

Hilles & Jones Co., Wilmington, Del.

MERRILL BROS., William st., Maspeth, Boro. of Queens, New York

Miner & Peck Mfg. Co., New Haven, Conn.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Pawtucket Mfg. Co., Pawtucket, R. I.

Perkins Machine Co. (For Drop Forgings, etc.), Warren, Mass.

Stoll, D. H. Co., Buffalo, N. Y.

Toledo Machine & Tool Co. (Power), Toledo, O.

Waterbury Farrel Foundry & Machine Co. (Punching & Trimming), Waterbury, Conn.

Presses (Type Embossing)

Roovers Bros. ("Roovers," for Pattern Letter Plates, Tags, Labels, etc.), 100 Schermerhorn, Brooklyn, N. Y.

Presses (Veneer)

ADVANCE MACHINERY CO., Toledo, O. (See adv. index, end of book)

American Woodworking Machinery Co., Rochester, N. Y., & West Street hldg, New York

Bentel & Margedant Co. (Hydrostatic), Ham-ilton, O.

Boomer & Boschert Press Co., Syracuse, N. Y.

Bushnell, G. H. Press Co., Thompsonville, Conn.

ELMES, CHAS. F. ENGINEERING Works, c. Fulton & Sangamon, Chicago, Ill. (See adv. index, end of book)

Fox Machine Co., Grand Rapids, Mich.

Francis, Chas. E. & Bro., Cincinnati, O.

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Huntsville Foundry & Machine Works (Nolan & Jones, Props.), Huntsville, Ala.

Hydraulic Press Mfg. Co. (Hydraulic), Mount Kline, Lewis T., Alpena, Mich.

Smith, H. B. Machine Co., Smithville, N. J.

Towsley, John T. Mfg. Co., Cincinnati, O.

Presses (Vulcanizing)

Clark, Edred W., Hartford, Conn.
ELMES, CHAS. F. ENGINEERING
 Works, c. Fulton & Sangamon, Chicago,
 Ill. (See adv. index, end of book)
 Hydraulic Press Mfg. Co. (Hydraulic), Mt.
 Gilead, O.
 Watson Machine Co., Paterson, N. J.

Presses (Waste)

Pierce, Adams True ("True"), Dover, N. H.
STRONG MACHINERY & SUPPLY
 Co. ("Economy" & "Eclipse"), 48 Frank-
 lin, New York. (See adv. index, end of
 book)

*Presses (Watch & Clock Makers')

BLISS, E. W. CO., 19 Adams, Brooklyn,
 N. Y. (See adv. index, end of book)

Presses (Wheel)

(See Presses, Hydraulic Wheel)

Presses (Wine & Cider)

American Seeding Machine Co. (Cider Only),
 Main Office: Springfield, O. Works: Louis-
 ville, Ky.
 Ames Plow Co., Quincy Hall, Boston.
 Boomer & Boschert Press Co., Syracuse, N. Y.
 Bushnell, G. H. Press Co., Thompsonville, Conn.
 Comstock, Geo. S. ("Triumph"), Mechanics-
 burg, Pa.
 Donaldson Bros., Mount Clemens, Mich.
 Eagle Machine Co., Lancaster, O.
 Emery, G. J., Fulton, N. Y.
 Enterprise Mfg. Co. (Fruit, Wine & Jelly), 3d
 & Danphin, Philadelphia, Pa.
 Farquhar, A. B. Co., York, Pa.
 Haish Mfg. Co., De Kalb, Ill.
 Hensch & Drumgold Co., York, Pa.
 Hercules Lever Jack Co., Irvington, N. J.
 Hocking Valley Mfg. Co., Lancaster, O.
 Hydraulic Press Mfg. Co. (Hydraulic, etc.),
 Mt. Gilead, O.
 Keystone Farm Machine Co., York, Pa.
 Klotz Machine Co. ("Hero" Geared, Hand &
 Power), Sandusky, O.
 Krogh Mfg. Co., San Francisco, Cal.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Schriver, O. P. & Co. ("I. X. L."), 208 Elm,
 Cincinnati, O.
 Thomas-Albright Co., Goshen, Ind.
 White, R. W. & Bro., Norfolk, Va.
 Whitehurst, R. W. Co., Norfolk, Va.
 Whitman Agricultural Co., St. Louis, Mo.

Presses (Wiring)

(See Presses, Horning & Wiring)

Presses (Wood Printing)

(See Box Board Printing Machines)

Presses (Wood Pulp)

Boomer & Boschert Press Co., Syracuse, N. Y.
 Bushnell, G. H. Press Co., Thompsonville, Conn.
 Scott, Olin, Bennington, Vt.
 Trevor Mfg. Co., Lockport, N. Y.

Preventers (Smoke)

(See also Furnaces, Smokeless)

Automatic Smoke Preventer Fuel Economy
 Co., 1st Nat. Bank bldg., Cincinnati, O.
 Climax Smoke Preventer Co. ("Climax"),
 Equitable bldg., Boston, Mass.

Prime Movers

(See Dynamo & Motor Mfrs.; Engines, Various
 Kinds; Generators, Various Kinds; Motors,
 Various Kinds; Turbines, Various Kinds;
 Windmills)

Printers' Wood Furniture

Hamilton Mfg. Co., Two Rivers, Wis.
 New England Wood Type Co., Brookline,
 N. H.
 Thibbs Mfg. Co., Ludington, Mich.

*Printing Inks

(See also Inks, Printing & Lithograph)

NAUMANN MFG. CO., Stamford, Conn.
 & 28 City Hall pl., New York. (See adv.
 index, end of book)

*Prin-to-Paque Tracing Inks

SOLTMANN, E. G.

(Inks, Black, White & Colors, All Colors
 Show in Blue Prints as well as Black
 Lines), 125 E 42d, New York. (See adv.
 index, end of book)

Prismatic Hoods (Electric Light)

Phila. Light & Equipment Co., Land Title
 bldg., Philadelphia, Pa.

Prismatic Lights

(See Glass, Prismatic)

Prison Cells

(See Jail & Cell Work, Steel)

Projectiles (Steel)

American & British Co., Providence, R. I., &
 Bridgeport, Conn.
 Bethlehem Steel Co., South Bethlehem, Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn,
 N. Y. (See adv. index, end of book)
 Firth-Sterling Steel Co., McKeesport, Pa.
 Johnson, Isaac & Co., Spuyten Duyvil, New York
 City, N. Y.
 Midvale Steel Co., Nicetown, Philadelphia, Pa.
PRESSED STEEL TANK CO. (Seam-
less Steel Shells), Milwaukee, Wis. (See
 adv. index, end of book)
 Taylor Iron & Steel Co. (Armor Piercing),
 High Bridge, N. J.

Projectors or Search Lights

Benton, Thos. P. & Son, La Crosse, Wis.
 Bogue, Chas. J., Electric Co., 515 W 29th, New
 York
 Carlisle & Finch Co., Cincinnati, O.
 Electric Motor & Equipment Co., 13 Beaver,
 Newark, N. J.
 Fort Wayne Electric Works (Inc.), Fort Wayne,
 Ind.
GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, New York. (See
 adv. index & branch offices, end of book)
 Menchen, Jos. Electrical Co., 360 W 50th, New
 York
 Rushmore Dynamo Works (Electric or Acetylene
 for Yachts, Locomotives & Automobiles),
 Plainfield, N. J.

Protectors (Book Corner)

Modern Mfg. Co., 543 N. Lawrence, Phila.,
 Pa.

Protectors (Electric)

American Electric Fuse Co. ("Rofe"), Mus-
 kegon, Mich.
 Central Tel. & Electric Co., St. Louis, Mo.
 Cook, Frank B., 240 W Lake, Chicago, Ill.
D & W FUSE CO., Providence, R. I.
 (See adv. index, end of book)
 Harvard Electric Co., 60 W Van Buren, Chi-
 cago, Ill.
 Helios Mfg. Co., Bridesburg, Phila., Pa.
 Rolfe Electric Co., Rochester, N. Y.
 Sterling Electric Co., Lafayette, Ind.
 Trio Mfg. Co. ("Tornquist"), Rock Island, Ill.
 United Indurated Fibre Co., Lockport, N. Y.

Protectors (Rail Bond)

Chase-Shawmut Co., Newburyport, Mass.

Protectors (Smoke)

Cover, H. S., 126 Perley, South Bend, Ind.

*Protectors (Stamp)

ACME STEEL GOODS CO. ("Acme" for
 Beer Kegs, etc.), 2834 Archer av., Chi-
 cago, Ill.; 147 Lafayette, New York, &
 Empire bldg., Atlanta, Ga. (See adv. in-
 dex, end of book)

Protractors

Brown & Sharpe Mfg. Co. (Draughtsmen's),
 Providence, R. I.
 Kelsey, D. J., New Haven, Conn.
 Massachusetts Tool Co., Greenfield, Mass.
 Neptune Mfg. Co., Needham, Mass.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
STARRETT, L. S. CO. (Bevel Draughts-
 man, etc.), Athol, Mass. (See adv. index
 & branch offices, end of book)

Pruners (Tree)

(See Shears, Pruning)

Publications (Trade)

Acetylene Journal, 324 Dearborn, Chicago, Ill.
 American Architect, 239 W. 39th, New York
 American Artisan, 355 Dearborn, Chicago, Ill.
 American Blacksmith, Prudential bldg., Buf-
 falo, N. Y.
 American Carpenter & Builder, 237 5th av.,
 Chicago, Ill.
 American Contractor, 40 Dearborn, Chicago,
 Ill.
 American Cotton Manufacturer, Charlotte, N. C.
 American Dairyman, 105 Hudson, New York
 American Druggist & Pharmaceutical Record,
 62 W B'way, New York
AMERICAN EXPORTER, 135 Wil-
liam, New York. (See adv. index, end
 of book)
 American Fertilizer, 1010 Arch st, Phila., Pa.
 American Gas Light Journal, 42 Pine, New
 York
 American Machinist, 505 Pearl, New York
 American Made Goods Export Co., 17 State,
 New York
 American Manufacturer, Textile, Charlotte,
 N. C.
 American Pressman, 208 Olive, St. Louis, Mo.
 American Sportsman, 21 Warren, New York
 American Sugar Industry, 5 Wabash av, Chi-
 cago, Ill.
 Architects & Builders' Magazine, 23 Warren,
 New York
 Architectural Record, 11 E. 24th, New York
 Architecture, 225 5th av. New York
 Automobile Directories Co., 1717 B'way, New
 York
 Automobile Magazine, 114 Liberty, New York
 Automobile, The, 239 W 39th, New York
 Barbers' Journal, 1135 Broadway, New York
 Barrel & Box, 431 Main, Louisville, Ky.
 Blacksmith & Wheelwright, 27 Park Place,
 New York
 Boiler Maker, 17 Battery Place, New York
 Brewers' Journal, 1 Hudson, New York
 Brickbuilder, 85 Water, Boston, Mass.
 Butchers' Advocate, 203 Broadway, New York
BUYERS' INDEX (For Export Trade), 151
Nassau, New York. (See adv. index, end
 of book)
 Canadian Architect & Builder, Toronto, Mon-
 treal, Can.
 Canadian Manufacturer & Industrial World,
 Toronto, Montreal, Can.
 Carpentry & Building, 14 Park pl, New York
CASSIERS' MAGAZINE, 12 W 31st,
New York. (See adv. index, end of book)
 Cement Age, 225 5th av., New York
 Cement Era, 98 Jackson boul, Chicago, Ill.,
 & 42 B'way, New York
 Cement World, 241 5th av., Chicago, Ill.
 Cement & Engineering News, 22 5th av., Chi-
 cago, Ill.
 Clay Record, 303 Dearborn, Chicago, Ill.
 Clay Worker, Indianapolis, Ind.
 Coal, Arrott bldg, Pittsburg, Pa.
 Cold Storage & Ice Trade Journal, 116 Nas-
 sau, New York
 Commercial Record, 127 Federal, Boston, Mass.
 Compressed Air, Easton, Pa.
 Concrete, Detroit, Mich.
 Concrete Age, Atlanta, Ga.
 Concrete Construction (Monthly), Drexel bldg,
 Phila., Pa.
 Concrete Engineering, Caxton bldg., Cleveland,
 Ohio
 Confectioners & Bakers' Gazette, 125 W'orth,
 New York
 Construction News Co., Monadnock blk., Chi-
 cago, Ill.
 Contract News, 13 Park row, New York
 Contractor, 98 Jackson boul, Chicago, Ill.
 Cotton, Equitable bldg., Atlanta, Ga.
 Creditors' Mercantile Guide, 621 B'way, New
 York
 Cycle & Automobile Journal, 1213 Filbert,
 Dixie, Atlanta, Ga. Philadelphia, Pa.
DOCKHAM'S TEXTILE DIRECTORY, 6
 Beacon, Boston, Mass. (See adv. index, end
 of book)

Domestic Engineering, 49 N. Jefferson, Chicago, Ill.
 Dry Goods Economist, 239 W 39th, New York
 El Comercio, 126 Liberty, New York
 Electric Railway Journal, 239 W 39th, New York
 Electrical Age, 45 W 42d, New York
 Electrical Review, 15 Park Row, New York
 Electrical World, 239 W 39th, New York
ENGINEERING-CONTRACTING, 355
 Dearborn, Chicago, Ill. (See adv. index, end of book)
ENGINEERING MAGAZINE, 140 Nassau,
 New York. (See adv. index, end of book)
ENGINEERING NEWS, 220 B'way,
 New York. (See adv. index, end of book)
ENGINEERING RECORD, 239 W. 39th,
 New York. (See adv. index, end of book)
 Engineering Review Co., 239 W 39th, New York
 Engineering & Mining Journal, 505 Pearl, New York
 Engineers' Review, Whitney bldg., Cleveland, Ohio
EXPORTADOR AMERICANO, 135
 William, New York. (See adv. index, end of book)
 Exporters & Importers' Journal, 17 State, New York
 Farm Implement News, Masonic Temple, Chicago, Ill.
 Farm Machinery, 506 Olive, St. Louis, Mo.
 Fire & Water Engineering, 136 W 22nd, New York
 Furniture Industry, Evansville, Ind.
 Hardware Dealers' Magazine, 253 B'way, New York
 Harness, 24 Murray, New York
 Heating & Ventilating Magazine, 1123 B'way, New York
 House Furnishing Economist, 2 Hudson, New York
 House Furnishing Review, 59 Park pl, New York
 Hub, 24 Murray, New York
 Illuminating Engineering Publishing Co. (Technical), 36 W 29th, New York
 Improvement Bulletin, Lumber Exchange, Minneapolis, Minn.
 India Rubber World, 395 B'way, New York
 Indice Para Compradores (Bradford Pub. Co.) (Spanish), 154 Nassau, New York
 Industrial Magazine, 50 Church, New York
 Insurance Engineering, 120 Liberty, New York
 International Marine Engineering, Whitehall bldg, New York
 International Typographical Journal, Indianapolis, Ind.
 Iron Age, 14 Park pl, New York.
 Iron Trade Review, Browning bldg., Cleveland, Ohio
 Jewelers' Circular, 11 John, New York.
 Lumberman (St. Louis), Fullerton bldg, St. Louis, Mo.
 Lumber World, 21 Quincy, Chicago, Ill.
 Machinery, 49 Lafayette, New York
MANUFACTURERS' RECORD, Merchants'
 Nat. Bank bldg., Baltimore, Md. (See adv. index, end of book)
 Marine Engineering, 17 Battery pl, New York
 Marine Review, Browning bldg, Cleveland, O.
 Metal Worker, 14 Park pl, New York
 Mines & Minerals, Scranton, Pa.
 Mining & Scientific Press, San Francisco, Cal.
 Modern Machinery, Security bldg, Chicago, Ill.
 Monumental News, 324 Dearborn, Chicago, Ill.
 Motor Age, 1200 Michigan av., Chicago, Ill.
 Motor Boat, 1133 B'way, New York
 Motor World, 154 Nassau, New York
 Municipal Engineering, Indianapolis, Ind.
 Municipal Journal & Engineer, 239 W. 39th, New York
NATIONAL CONTRACTOR & BUILDER,
 301 N Charles, Baltimore, Md. (See adv. index, end of book)
 Oil, Paint & Drug Reporter, 100 William, New York
PACIFIC BUILDER & ENGINEER, Pacific
 blk, Seattle, Wash. (See adv. index, end of book)
 Packages, Montgomery bldg, Milwaukee, Wis.
 Pharmaceutical Era, 90 William, New York
 Plumbers' Trade Journal Pub. Co., 45 W. 34th, New York
 Popular Mechanics, Journal bldg, Chicago, Ill.
 Power, 505 Pearl, New York
 Practical Engineer, 46 N 12th, Phila., Pa.
 Progressive Age, 280 B'way, New York
 Railway Age Gazette, 83 Fulton, New York
 Railway Master Mechanics, Security bldg, Chicago, Ill.
 Railway World, Witherspoon bldg, Phila., Pa.
 Railway & Engineering Review, Manhattan bldg, Chicago, Ill.
 Real Estate Record, 46 N 11th, Phila., Pa.
 Record & Guide, 11 E. 24th, New York

Rock Products, 355 Dearborn, Chicago, Ill.
 Rudder Publishing Co., 9 Murray, New York
 Shoe & Leather Reporter, 183 Essex, Boston, Mass.
 Southern Machinery, Prudential bldg, Atlanta, Ga.
 Starchroom Laundry Journal, Blymyer bldg, Cincinnati, O.
"STONE," 123 Liberty, New York.
 (See adv. index, end of book)
 Stove & Hardware Reporter, St. Louis, Mo.
 Street Railway Journal, 239 W. 39th, New York
 System, 151 Wabash av, Chicago, Ill.
 Textile Manufacturers Journal, 377 B'way, New York
 Technical World Magazine, 58th & Drexel, Chicago, Ill.
 Telephony, Monadnock blk., Chicago, Ill.
 Textile World Record, 299 Devonshire, Boston, Mass.
 Trade Mark Record, 40 Exchange pl., New York
 Tradesman Publishing Co., Chattanooga, Tenn.
 Transit, Iowa City, Ia.
 Waste Trade Journal, The, 136 Liberty, New York
 Western Architect & Builder, Commercial Tribune bldg, Cincinnati, O.
 Western Contractor, Kansas City, Mo.

Puller & Recorker

Arcade Mfg. Co. ("Phoenix," "Clipper," "Handy" & "Arcade"), Freeport, Ill.

Pullers (Beet)

Avery, B. T. & Sons ("Avery"), Louisville, Ky.
 Bucher & Gibbs Plow Co., Canton, O.
 Deere & Co. ("Jno. Deere"), Moline, Ill.
 Deere & Mansur Co. ("Deere"), Moline, Ill.
 Donaldson Bros. ("Donaldson," "Valley"), Mt. Clemens, Mich.
 Gale Mfg. Co. ("Gale"), Albion, Mich.
 Lehr Agricultural Co. ("Lehr"), Fremont, O.
 Moline Plow Co. ("Moline"), Moline, Ill.
 Morrison Mfg. Co., Fort Madison, Ia.
 Ohio Cultivator Co. ("Famous Ohio"), Bellevue, O.
 Parlin & Orendorff Co. ("Canton"), Canton, Ill.

Pullers (Car)

(See also Car Movers & Pushers)

Barnard & Leas Mfg. Co. ("Moline"), Moline, Ill.
 Burrell Mfg. Co. (One-Shaft), 251 S. Jefferson, Chicago, Ill.
 Caldwell, H. W., & Son Co. ("Caldwell" Standard & Self-Contained Safety), 17th & Western av., Chicago, Ill.
 Dodge Mfg. Co. ("Safety"), Mishawaka, Ind.
 Howe Scale Co., of Illinois, 1315 Wabash av, Chicago, Ill.
 Link Belt Machinery Co., W 39th & Stewart, Chicago, Ill.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Nordyke & Marmon Co., Indianapolis, Ind.
 Skillin & Richards Mfg. Co. (Improved), 147 Fulton, Chicago, Ill.

Pullers (Cork)

Arcade Mfg. Co. ("Champion," "Triumph" & "Standard"), Freeport, Ill.
 Erie Specialty Co. ("Walker's" Self Pulling), Erie, Pa.
 Locke, C. E. Mfg. Co. ("Quick As a Wink"), Kensett, Ia.

Pullers (Nail)

(See also Pullers, Tack; also Pullers, Staple)
 Atwater Mfg. Co. ("Star"), Plantsville, Conn.
 Belden Machine Co., New Haven, Conn.
 Bonner, C. E., Mfg. Co. ("Victor" Pry Bar, Drop Forged), Chrisman, Ill.
 Bridgeport Hardware Mfg. Co. ("Sure Grip," "Jumbo," "Rex"), Bridgeport, Conn.
 Cedar Rapids Mfg. Co. ("Neverslip"), Cedar Rapids, Ia.
 Chandrell Tool Co., Reading, Pa.
 Denison Mfg. Co. ("Denison"), Warren, O.
 Grammes, L. F., & Sons ("Bull Dog"), Allentown, Pa.
 Landers, Frary & Clark ("Universal"), New Britain, Conn.
 Mellor Box Opener Co. ("Mellor" Box Opener, Nail Puller & Hammer Combined), Sedalia, Mo.
 Miller's Falls Co. ("Pelican," "Miller's Falls"), 28 Warren, New York. Works, Miller's Falls, Mass.

MORRILL, CHAS. ("Morrill"), 277 B'way,
 New York. (See adv. index, end of book)



MANUFACTURED BY

CHAS MORRILL, 277 Broadway, N. Y.

Nafew, Samuel ("Samson"), 335 B'way, New York
PAGE - STORMS DROP FORGE CO.
 ("Gem"), Chicopee, Mass. (See adv. index, end of book)
 Sayre, L. A. Co., Newark, N. J.
 Schatz Mfg. Co., Mappaqua, N. Y.
 Scranton & Co., New Haven, Conn.
 Smith & Hemenway Co. ("The Giant"), 108 Duane, New York
 Snow & Petrelli Mfg. Co., New Haven, Conn.
 Tower & Lyon Co. ("The Cyclops"), 95 Chambers, New York
 Universal Tool Co. ("Milla's"), Springfield, Mass.
 Winkley Co. ("Star"), Hartford, Conn.

Pullers (Onion)

Allen, S. L. & Co., Phila., Pa.
 Bateman Mfg. Co., Grenloch, N. J.
 Deere & Mansur Co., Moline, Ill.
 Jeliff, C. O. Mfg. Corp., Southport, Conn.

Pullers (Piling)

Curtis & Co. Mfg. Co., St. Louis, Mo.

Pullers (Pinion)

(For Pulling Pinions from Armatures)

American General Engineering Co. ("A. G. E."), 253 B'way, New York
 Columbia Machine Works & Malleable Iron Co. ("Columbia"), 269 Chestnut, Brooklyn, N. Y.

Pullers (Plank)

Anderson, W. H., Tool & Supply Co., 14 Maccomb, Detroit, Mich.

Pullers (Spike)

(See also Bars, Pinch)

Harvey, H. H., 608 Atlantic av., Boston, Mass.
JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)
 Justice, Philip S. & Co. ("Justice" Railroad), 421 Chestnut, Phila., Pa.
MORRILL, CHAS. ("Pearson Cyclone"
 & "Morrill"), 277 B'way, New York. (See adv. above)
 Pearson, Jack Co. (The "Mogul"), 64 Federal, Boston, Mass.
 Pittsburg Tool & Drop Forge Co. ("Cheswick" for Use Between Guard Rails, etc.), Cheswick, Pa.
 Solid Steel Tool & Forge Co. (2 or 3 Ball), Brackenridge, Pa.

Pullers (Staple)

Blood & Mead ("Blood"), Minneapolis, Minn.
 Cheney, Henry Hammer Co., Little Falls, N. Y.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Osmundson Spade Mfg. Co. ("Buffalo"), Perry, Ia.
 Schriver, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.
 Smith & Hemenway Co. ("The Giant"), 108 Duane, New York
 Utica Drop Forge & Tool Co., Utica, N. Y.

Pullers (Stump)

Bennett, H. L. & Co. ("Bennett" Cable, "Bennett" Screw, "Bennett" Hand Power), Westerville, O.
 Caward, R. S. ("Faultless"), Cresco, Ia.
 Challenge Co. ("Cyclone"), Batavia, Ill.
 Chamberlin Mfg. Co. ("Chamberlin"), Olean, N. Y.
 Eclipse Hay Press Co. ("Eclipse"), N. Y.
 Edwards, C. D. ("Climax," "Jumbo," "Chief"), Albert Lea, Minn.

Farquhar, A. B. Co. (Ltd.) ("Archimedean," Hand Power), York, Pa.
 Hercules Mfg. Co. ("Hercules"), Centerville, Indiana
 Indiana Foundry Co., Indiana, Pa.
 Kansas City Hay Press Co. ("Lightning"), Kansas City, Mo.
 Milne Mfg. Co. ("Hawkeye," "I. & L.," "Iron Giant," "Milne"), Monmouth, Ill.
 Mohland & Co. ("Corbett," "Little Giant," "Pioneer" & "Hawkeye," Grubbing Machines), Burlington, Ia.
 Monarch Grubber Mfg. Co. ("Monarch" Grubber), Lone Tree, Ia.
 Niver Iron Works Co., Muscatine, Ia.
 St. Albans Foundry & Implement Co. ("St. Albans"), St. Albans, Vt.
 Scott Hay Press Co. ("O-K"), Kansas City, Mo.
 Smith Mfg. Co. ("Defiance"), La Crosse, Wis.
 Smith, W. Grubber Co. ("Smith"), La Crosse, Wis.
 Sparta Iron Works Co. ("Sparta"), Sparta, Wis.
 Swenson, Grubber Co. ("Swenson," Malleable Iron), Cresco, Ia.

Pullers (Tack)

Arcade Mfg. Co., Freeport, Ill.
 Bridgeport Hardware Mfg. Co., 481 Iranistan av., Bridgeport, Conn.
 Browne & Dowd Mfg. Co. ("Yankee"), Meriden, Conn.
 Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Denison Mfg. Co. ("Denison"), Warren, O.
 General Specialty Co. ("Bi-Ped"), 14 S. 4th, Hoague, J. H., Chicopee, Mass.
 Hoague, J. H., Chicopee, Mass.
 Rocky Hill Hardware Co. ("Samson" Polished Steel & Malleable Japanned, etc.), Rocky Hill, Conn.
 Smith & Hemenway Co. ("The Giant"), 108 Duane, New York
 Utica Drop Forge & Tool Co., Utica, N. Y.
 Verona Tool Works (Spike, etc.), Verona, Pa., & Pittsburgh, Pa.
 Wrightsville Hardware Co., Wrightsville, Pa.

Pullers (Wire)

Dicke Tool Co. ("The Imperial"), Downers Grove, Ill.
 Browne & Dowd Mfg. Co. ("Yankee"), Meriden, Conn.

Pulley Blocks (Differential Chain)

(See Blocks, Differential Chain)

Pulley Covering

Boston Woven Hose & Rubber Co. ("Milo" Stitched Canvas), Executive Office & Factory, Cambridgeport, Mass.
 Fansher Bros. ("Anti-Slip" Pulley Dressing), Dayton, O.
 Oak Leather Pulley Covering Co. (Oak Leather), 432 N 10th, Phila., Pa.
 Onward Mfg. Co. ("O. C. Little"), Menasha, Wis.
 Shultz Belting Co., 402 Barton, St. Louis, Mo.
 Turner, J. S. Mfg. Co., Lowell, Mass.
 Warren Co. (Inc.) ("Warren's"), 196 Orleans, Chicago, Ill.

*Pulleys (All Steel, Double Belt)

PENNSYLVANIA STEEL PULLEY CO. (Split & Solid), North Side, Pittsburgh, Pa.
 (See adv. index, end of book)

Pulleys (Anti-Friction, Dumb Waiter)

Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Pulleys (Arc Lamp)

Ajax Line Material Co. ("Universal"), 12 S. Jefferson, Chicago, Ill.
 Brady, T. H., New Britain, Conn.
 Creaghead Engineering Co., Cincinnati, O.
 Cutter, Geo. Co. ("Cutter's"), South Bend, Ind.
 Electrical Construction Supply Co., Springfield, Ohio
 Fletcher Mfg. Co., Dayton, O.
 Fort Wayne Electric Works, Fort Wayne, Ind.
 Morris, Elmer P. Co., 72 Trinity pl., New York

Pulleys (Awning or Tackle)

CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book)
 Laughlin, Thomas Co., Portland, Me. (of book)
 Marine Hardware & Equipment Co., South Ney Mfg. Co., Canton, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penna. Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Wilcox, Crittenden & Co., Middletown, Conn.

*Pulleys (Ball Bearing)

KNOWLTON, M. D. CO., Rochester, N. Y.
 (See adv. index & branch offices, end of book)

Pulleys (Bell Cord)

Brill, J. G. Co. (Also Register Cord), Phila., Pa.
 Creamer, W. G. & Co., 96 John, New York

Pulleys (Cast Iron)

(See also Machinery, Power Transmitting)

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)
 American Tool & Machine Co., 109 Beach, Boston, Mass.
 Bates Machine Co., Joliet, Ill.
 Birmingham Iron Foundry, Derby, Conn.
 Bond Foundry & Machine Co., Manheim, Pa.
 BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Buckeye Iron & Brass Works, Dayton, O.
 Caldwell, H. W., & Son Co., 17th & Western, Chicago, Ill.

CALDWELL, W. E. CO., Brook & D. Louisville, Ky. (See adv. index, end of book)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
 Dayton Globe Iron Works Co., 833 S Ludlow, Dodge Mfg. Co., Mishawaka, Ind.
 Eastern Machinery Co., New Haven, Conn.
 Fales & Jenks Machine Co., Pawtucket, R. I.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Filler Stowell Co., Milwaukee, Wis.
 Fischer Foundry & Machine Co., S 21st & Mary, Pittsburgh, Pa.

Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Frick Co., Waynesboro, Pa.
 Frost Mfg. Co., Galesburg, Ill.

Fulton Machine Co., Canal, Fulton, O.
 Goldens' Foundry & Machine Co., Columbus, Ga.

Great Western Mfg. Co., Leavenworth, Kans.
 Greenwald, I. & E. Co., Cincinnati, O.

Henry Machine Works, 38 Fremont, San Francisco, Cal.
 Hess-Snyder Co., Massillon, O.
 Hill Clutch Co., ft. 58th N W, Cleveland, O.

Holyoke Machine Co., Worcester, Mass., & Holyoke, Mass.

Howard Iron Works, Buffalo, N. Y.
 Humphrey Machine Co., Keene, N. H.

Hunt, Rodney, Machine Co., Orange, Mass.
 Hunter, Jas. Machine Co., North Adams, Mass.

Jacobson Machine Mfg. Co. (Clutch), Warren, Pa.
 JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

Jones, W. A. Foundry & Machine Co. (Machine Moulded), 143 W North av, Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburgh, Pa.
 Kaestner & Co. (Inc.), 241 S Jefferson, Chicago, Ill.

Keasey Pulley Co., Toledo, O.
 Klotz Machine Co., Sandusky, O.

Lane Mfg. Co., Montpelier, Vt.
 Lane & Bodley Co., Cincinnati, Ohio

Leffel, Jas. & Co., Inc., Springfield, O.
 Link Belt Co., 39th & Stewart, Chicago, Ill., & Nicetown, Phila., Pa.

Love Bros. (Inc.), Aurora, Ill.
 McCaffrey, Jno. (Shaft), Lawrence, Mass.

Marselles Mfg. Co., Marselles, Ill.
 Medart Patent Pulley Co., St. Louis, Mo.

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Minster Machine Co., Minster, O.
 Muir, Hugh, Co., 240 Chicago av, Chicago, Ill.

Nordyke & Marmon Co., Indianapolis, Ind.
 PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

Plamondon, A. Mfg. Co., Chicago, Ill.
 PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Porter Foundry & Machine Co., Pittsburgh, Pa.

Portland Co., Portland, Me.
 Risdon Iron & Locomotive Works, Steuart & Folsom, San Francisco, Cal.

St. Marys Machine Co. ("Likens Clutch"), St. Marys, O.

Scalfe Foundry & Machine Co., Pittsburg, Pa.
 Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.

Skillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.

Smith, H. B. Machine Co., Smithville, N. J.
 South Bend Pulley Co., South Bend, Ind.

Southern Engine Boiler Works (Inc.), Jackson, Tenn.

SPROUT, WALDRON & CO. Muncy, Pa.
 (See adv. index, end of book)

Standard Pulley Co., Cincinnati, O.
 Standard Pulley & Foundry Co. (Machine, Moulded, etc.), 1228 Collins, St. Louis, Mo.

Stephens-Adamson Mfg. Co., Aurora, Ill.
 Strait, H. N. Mfg. Co., Kansas City, Mo.

Toledo Foundry & Machine Co., Toledo, O.
 Trump Mfg. Co., Springfield, Ohio.

Union Machine Co., Worcester, Mass.
 Valley Iron Works, Williamsport, Pa.

WALSH'S SONS & CO., Newark, N. J.
 (See adv. index, end of book)

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

WEBSTER MFG. CO., 1075 W. 15th, Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

WELLER MFG. CO., 124 E. North av., Chicago, Ill. (See adv. index, end of book)

White, Jno. A. Co., Dover, N. H.
 Wickes Bros., Saginaw, Mich.

Wolf Co., Chambersburg, Pa.
 Wood's, T. B., Sons Co., Chambersburg, Pa.

Woonsocket Machine & Press Co., Woonsocket, R. I.

Pulleys (Ceiling)

American Foundry & Mfg. Co., St. Louis, Mo.

Automatic Damper Co. ("Star" Ball Bearing, with Adjustable Guards), Milwaukee, Wis.

Pennsylvania Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.

Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Pulleys (Clothes Line)

Browne & Dowd Mfg. Co., Meriden, Conn.

Hardware & Woodenware Mfg. Co. ("Brighton"), 693 B'way, New York

Metal Finishing Co., Union City, Conn.
 Peck, Stow & Wilcox Co. ("Knot Passing"), Southington, Conn.

Pulleys (Cone)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.

Dodge Mfg. Co., Mishawaka, Ind.

EVANS FRICTION CONE CO. (Counter-shaft Variable Speed), Newton Center, Mass. (See adv. index, end of book)

Hartford Machine Screw Co., Hartford, Conn.

Howard Iron Works, Buffalo, N. Y.

Kearsey Pulley Co., Toledo, O.

Lane Mfg. Co., Montpelier, Vt.

Osgood & Baker, Bellows Falls, Vt.

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Woonsocket Machine & Press Co., Woonsocket, R. I.

*Pulleys ("Evans" Friction Cone)

EVANS FRICTION CONE CO. ("Evans" Power Drive), Newton Center, Mass. (See adv. index, end of book)

Pulleys (Flanged)

American Pulley Co. (Flanged, "American"), 29th & Bristol, Phila., Pa.

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Caldwell, H. W., & Son Co., 17th & Western av, Chicago, Ill.

Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.

Dodge Mfg. Co., Mishawaka, Ind.

Erie Clutch & Pulley Co., Erie, Pa.
 Falls Rivet & Machine Co., Cuyahoga Falls, Ohio
 Howard Iron Works, Buffalo, N. Y.

Jones & Laughlin Steel Co., Pittsburg, Pa.
 Keasey Pulley Co., Toledo, O.

MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Nordyke & Marmon Co., Indianapolis, Ind.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Pulleys (Friction Clutch)

(See Clutches, Friction)

ALLIS-CHALMERS CO. ("A. C."), Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Brown & Sharpe Mfg. Co. (Self-Oiling), Providence, R. I.
 Caldwell, H. W., & Son Co. ("Caldwell" Double Disc, etc.) Western av. & 17th, Chicago, Ill.
 Cowanesque Valley Iron Works ("Rieppel's"), Cowanesque, Pa.
 Cresson, Geo. V. Co., Allegheny av., w of 17th, Phila., Pa.
 Carrouthers-Fithian Clutch Co., Grove City, Pa.
 Diamond Iron Works ("Wilkinson"), Minneapolis, Minn.
 Dodge Mfg. Co., Mishawaka, Ind.
 Eastern Machinery Co., New Haven, Conn.
 Exeter Machine Works, Pittston, Pa.
 Falls Rivet & Machine Co., Cuyahoga Falls, Ohio
 Friction Pulley & Machine Works (Noiseless Success Screen), Sandy Hill, N. Y.
 Garland, M. Co. (Clutch), Bay City, Mich.
 Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
 Great Western Mfg. Co., Leavenworth, Kan.
 Hill Clutch Co. (Solid & Split), ft 58th N W Hess, Snyder Co., Masillon, O. Cleveland, O.
 Howard Iron Works, Buffalo, N. Y.
 Hoyt Mfg. Co. ("Munsing"), Minneapolis, Minn.
 Hunt, Rodney Machine Co., Orange, Mass.
 Hunter, Jas. Machine Co., North Adams, Mass.
 Hydraulic Press Mfg. Co., Mount Gilead, O.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Jones, W. A. Foundry & Machine Co., 143 W North av., Chicago, Ill.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Keasey Pulley Co., Toledo, O.
 Kenyon, D. R. & Son, Raritan, N. J.
 Kissinger & Son Co., Cincinnati, O.
 Klein, Chas. C., 2850 N Marshall, Phila., Pa.
 Link Belt Co., W 39th, c Stewart av., Chicago, Ill., & 299 B'way, New York
 Medart Patent Pulley Co., 3500 DeKalb av., St. Louis, Mo.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Minster Machine Co. ("Herken" for Gas Engines), Minster, O.
 Moore & White Co., 15th & Lehigh av., Philadelphia, Pa.
 New Era Gas Engine Co., Dayton, O.
 New Haven Mfg. Co., New Haven, Conn.

Oesterlein Machine Co., Cincinnati, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 211 Centre, New York
 Plamondon, A. Mfg. Co., 57 S Clinton, Chicago, Ill.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Pusey & Jones Co., Wilmington, Del.
 Sandy Hill Iron & Brass Works ("Hercules"), Sandy Hill, N. Y.
 Sellers, Wm. Co., 1600 Hamilton, Phila., Pa.
 Sinclair-Scott Co., Baltimore, Md.
 Skillin & Richards Mfg. Co. ("Muir's"), 147 Fulton, New York
 Sly, W. W., Mfg. Co., Cleveland, Ohio.
 Standard Pulley Co. (Countershafts), Cincinnati, O.
 Union Iron Works Co., San Francisco
 Williams, Milton F. & Co., 2701 N B'way, St. Louis, Mo.
 Wood's, T. B., Sons Co., Chambersburg, Pa.
 Yocom, Jas. & Son, 145 N 2d, Phila., Pa.

Pulleys (Grooved)

Boston Gear Works (Brass & Cast Iron), Norfolk Downs, Mass.

Pulleys (Guide)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Cresson, Geo. V. Co., Allegheny av., W of 17th, Phila., Pa.
 Dodge Mfg. Co., Mishawaka, Ind.
 Falls Rivet & Machine Co., Cuyahoga Falls, O.
 Hunter, Jas. Machine Co., North Adams, Mass.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Keasey Pulley Co., Toledo, O.
 Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Toledo Foundry & Machine Co., Toledo, O.

Pulleys (Hay Fork)

American Foundry & Mfg. Co., St. Louis, Mo.
 American Seeding Machine Co. ("Superior"), Springfield, O.
 Cheney, S. & Son (Scoville's), Manlius, N. Y.
 Cleveland Block Co., 163 River, Cleveland, O.
 Dissinger, C. H. A. & Bro. (Safety Clutch), Wrightsville, Pa.
 Eagle Mfg. Co., Appleton, Wis.
 Goshen Mfg. Co., Goshen, Ind.
 Hardware & Woodenware Mfg. Co., 693 B'way, New York
 Hunt, Helm, Ferris & Co. ("Star," "O. K.," "Peerless"), Harvard, Ill.
 Kupferle, Jno. C. (Iron & Wood), c 2d & Mound, St. Louis, Mo.
 Lawrence Bros., Sterling, Ill.
 Loudon Machinery Co. ("Louden"), Fairfield, Mass.
 Mason, F. C. & Co., St. Johns, Mich.
 Milwaukee Hay Tool Co. ("Milwaukee"), Milwaukee, Wis.
 Myers, F. E., & Bro., Ashland, O.
 Ney Mfg. Co., Canton, O.
 Ney, V. L., Co., Canton, O.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Porter, J. E. Co. ("Porter," "Self-Locking Sling," "Sling-Binding"), Ottawa, Ill.

Reading Hardware Co., Reading, Pa.
 Ricker Mfg. Co., Rochester, N. Y.
 St. Marys Machine Co. (Clutch), St. Marys, O.
 Stowell Mfg. & Foundry Co. ("Stowell," Anti-Friction & Common), South Milwaukee, Wis.
 Strickler Hay Tool Co. ("Strickler"), Janesville, Wis.
 Susquehanna Casting Co., Wrightsville, Pa.
 Swineford, G. A., Co., Canton, O.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 U. S. Wind Engine & Pump Co. ("U.S."), Batavia, Ill.
 Weller Hardware & Foundry Co., Horseheads, N. Y.
WHITMAN & BARNES MFG. CO. (Hay, Sling, etc.), Chicago, Ill. See adv. index & branch offices, end of book
 Wrightsville Hardware Co., Wrightsville, Pa.

Pulleys (Iron Split)

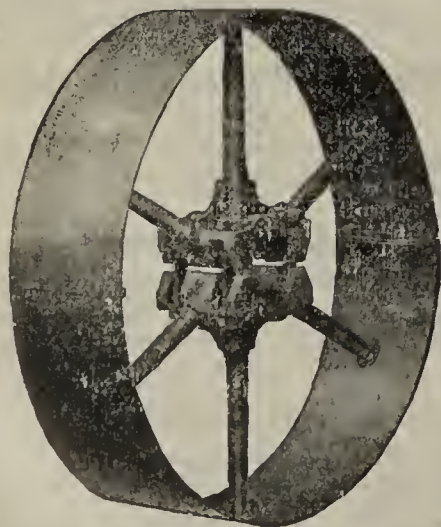
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co. (Finished), 17th & Western ave., Chicago, Ill.
 Dodge Mfg. Co., Mishawaka, Ind.
 Howard Iron Works, Buffalo, N. Y.
 Keasey Pulley Co., Toledo, O.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Poole Engineering & Machine Co., Baltimore, Md.
 Salem Foundry & Machine Works, Salem, Va.
 Standard Pulley Co., Cincinnati, O.
 Valley Iron Works, Williamsport, Pa.

Pulleys (Loose)

AMERICAN WELL WORKS (also Tight), Aurora, Ill. (See adv. index & branch offices, end of book)
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
 Dodge Mfg. Co., Mishawaka, Ind.
 Erie Clutch & Pulley Co., Erie, Pa.
 Keasey Pulley Co., Toledo, O.
 McCaffrey, John, Lawrence, Mass.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Nordyke & Marmon Co. (Also Tight), Indianapolis, Ind.
NORTH AMERICAN METALINE CO. (Oilless Bearing), 4 West av., Long Island City, N. Y. (See adv. index, end of book)
 Valley Iron Works, Williamsport, Pa.
 Wilmarth & Morman Co. ("Nelson"), Grand Rapids, Mich.

Pulleys (Machine Moulded)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.
 Dodge Mfg. Co., Mishawaka, Ind.



==THE "KEYSTONE"==

A Standard Steel Split Pulley for Universal Use
 Made in all Standard Sizes, 12 to 60-in. Diameter

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Pennsylvania Steel Pulley Co.
 PITTSBURGH, PA.

Howard Iron Works, Buffalo, N. Y.
Jones, W. A. Foundry & Machine Co., 143 W
North av, Chicago, Ill.
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Keasey Pulley Co., Toledo, O.
McLagon Foundry Co., New Haven, Conn.
Standard Pulley Co., Cincinnati, O.
Standard Pulley & Fdy. Co., St. Louis, Mo.

Pulleys (Paper)

Rockwood Mfg. Co., 1810 English av. Indianapolis, Ind.

Pulleys (Pressed Steel)

American Pulley Co. (Split), 29th & Bristol, Phila., Pa.
Detroit Steel Pulley Co., Detroit, Mich.
Oneida Steel Pulley Co. (Split), Oneida, N. Y.
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 112 Centre, New York
PENNSYLVANIA STEEL PULLEY CO. ("Keystone"), North Side, Pittsburgh, Pa. (See adv. index, end of book)
Phillips Pressed Steel Pulley Works ("Phillips"), 4th & Glenwood av, Phila., Pa.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
STRONG, CARLISLE & HAMMOND Co. ("American"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Pulleys (Pressed Steel Split)

American Pulley Co., 29th, c. Bristol, Phila., Pa.
PENNSYLVANIA STEEL PULLEY CO. ("Keystone"), North Side, Pittsburgh, Pa. (See adv. index, end of book)
Oneida Steel Pulley Co., Oneida, N. Y.

Pulleys (Screw)

Judd, H. L., Co., 87 Chambers, New York.
Ney Mfg. Co., Canton, O.
Peck, Stow & Wilcox Co., Southington, Conn.
Pennsylvania Hardware Co., Reading, Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn.
Stover Mfg. Co., Freeport, Ill.

Pulleys (Self-Oiling)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Cowdrey, C. H. Machine Works, Fitchburg, Mass.
Howard Iron Works, Buffalo, N. Y.
Luther, B. G. & Co., Worcester, Mass.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

*Pulleys (Shade & Screw)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book.)

Pulleys (Show Case)

Gardner Sash Balance Co. (Ball Bearing), 164 Dearborn, Chicago, Ill.
GRANT PULLEY & HARDWARE CO., 3 W 29th, New York

*Pulleys (Small)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Pulleys (Speed Changing)

(See also Variable Speed Transmission)
Speed Changing Pulley Co., Anderson, Ind.
Variable Speed Clutch Co., Milwaukee, Wis.

*Pulleys (Steel Split)

PENNSYLVANIA STEEL PULLEY CO. ("Keystone"), North Side, Pittsburgh, Pa. (See adv. index, end of book)

Pulleys (Wire Tightening)

Smulth, Otis A. (Pulley & Eccentric Clamp Attached for Wire Fence & Telephone Wire, etc.), Rockfall, Conn.

Pulleys (Wood Rim)

Dodge Mfg. Co., Mishawaka, Ind.
Erie Clutch & Pulley Co., Erie, Pa.
Keasey Pulley Co., Toledo, O.
Oneida Steel Pulley Co. (Steel Centre), Oneida, N. Y.
Reeves Pulley Co. ("Reeves" Iron Spider), Columbus, Ind.

Pulleys (Wood Split)

Barnard Mfg. Co., Spokane, Wash.
Barnard & Leas Mfg. Co. ("Cornwall-Barnard"), Moline, Ill.
Bradford Belting Co. ("Monarch"), Cincinnati, Ohio
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabeth, N. J. (See adv. index, end of book)
Case Mfg. Co., Columbus, O.
Chase Pulley Co. (Wood Rim, with Iron Hubs & Arms), Providence, R. I.
Detroit Wood Pulley Co., Detroit, Mich.
Dodge Mfg. Co. ("Independence"), Mishawaka, Ind.
DONEGAN & SWIFT ("Swift's Hold Fast" with Iron Center), 6 Murray, New York. (See adv. index, end of book)
Eclipse Wood Pulley Co., Berlin, Pa.
Erie Clutch & Pulley Co. ("Tornado"), Erie, Pa.
Forster Pulley Works ("Forster," also Estes, Combination Split Pulleys), Cuba, N. Y.
Keasey Pulley Co. ("Reliance," "Keasey" Malleable Iron Centre), Toledo, O.
Menasha Wood Split Pulley Co., Menasha, Wis.

Ohio Pulley Co. ("Buckeye"), Marion, O.
Ohio Valley Pulley Works (The Limestone), Maysville, Ky.
Oneida Steel Pulley Co. ("The Fulton"), Oneida, N. Y.
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 112 Centre, New York
Paul Mfg. Co., Fort Wayne, Ind.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Reading Wood Pulley Co. (Wood Rim & Wood Centre & Wood Rim & Iron Centre), Reading, Pa.
Reeves Pulley Co., Columbus, Ind.
Saginaw Mfg. Co. ("Gilbert"), Saginaw, Mich.
South Bend Pulley Co., South Bend, Ind.
STRONG, CARLISLE & HAMMOND Co. ("Reeves"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)
Washington Pulley & Mfg. Co. ("Washington" Split Clevis & "Pacific" Split Compression), Seattle, Wash.
Wing, J. T. & Co. ("Detroit"), 19 Woodward av., Detroit, Mich.

Pulleys (Wrought Steel)

American Pulley Co. ("American" Whole Steel), 29th & Bristol, Phila., Pa.
Caldwell, H. W., & Son, Co. (Split), 17th & Western av., Chicago, Ill.
Medart Patent Pulley Co. (Wrought Rim), 3500 De Kalb, St. Louis, Mo.
Meese & Gottfried Co. (Wrought Rim), 167 Fremont, San Francisco, Cal.
Oneida Steel Pulley Co. (Pressed Steel), Oneida, N. Y.
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 112 Centre, New York
STRONG, CARLISLE & HAMMOND Co. ("American"), 336-344 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

*Pulleys & Stands (Band Saw)

COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)

Pulls (Bell)

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Yale & Towne Mfg. Co., 9 Murray, New York

Pulls (Closet)

BERNZ, OTTO (Ivory, Amber, Metal & Wood), S. 13th & S. Orange av., Newark, N. J. (See adv. index, end of book)
Boekel, Wm. & Co., 518 Vine, Phila., Pa.
Emery, Wm. S. (Wood), 78 Cliff, New York

Ireland & Matthews Mfg. Co. (Metal), Detroit, Mich.
Lipp, Louis Co., Mitchell av & B. & O. S. W. R. R., Cincinnati, O.
Maddock, John & Sons (Porcelain), Trenton, N. J.
Maddock, Thos. Sons Co. (Porcelain), Trenton, N. J.
Mott, J. L., Iron Works (Porcelain), 118 5th av., N. Y.
Mueller, H. Mfg. Co. (Wood), Decatur, Ill.
Smith & Egge Mfg. Co. (Wood), Bridgeport, Conn.
Stortz, John & Son, 210 Vine, Phila., Pa.
Trenton Potteries Co. (Porcelain), Trenton, N. J.
Union Brass & Metal Mfg. Co. (Wood), St. Paul, Minn.
Warner, A. H. & Co. (Water Closet), Bristol, Conn.
Williams & Marvin Mfg. Co. (Wood), Deep River, Conn.
Young, Jos. H., Boston, Mass.

Pulls (Door)

Arcade Mfg. Co., Freeport, Ill.
Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.
Chicago Spring Butt Co., 54 Union Park Pl., Chicago, Ill.
Columbian Hardware Co. ("Columbian" & "Gem"), Cleveland, O., & 168 Church, New York
Cronk & Carrier Mfg. Co. (Barn), Elmira, N. Y.
Corbin, P. & F., New Britain, Conn.
Kohler, F. E., & Co. (Steel), Canton, O.
Mallory-Wheeler Co., New Haven, Conn.
National Supply Co., Baltimore, Md.
Norwalk Lock Co., South Norwalk, Conn.
Penn Hardware Co., Reading, Pa.
Peters, Jas. & Son (Wrought Iron), 1934 N. Front, Phila., Pa.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Shelby Spring Hinge Co. (Steel), Shelby, O.
Stearns, E. C. & Co., Syracuse, N. Y.
Stover Mfg. Co., Freeport, Ill.
Weller Hardware & Foundry Co., Horseheads, N. Y.
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.
Wire Goods Co., Worcester, Mass.
Yale & Towne Mfg. Co., 9 Murray, New York

Pulls (Drawer)

American Ring Co., Waterbury, Conn.
Arcade Mfg. Co., Freeport, Ill.
Champion Safety Lock Co., Geneva, O.
Corbin Cabinet Lock Co., New Britain, Conn.
Foster, Merriam & Co., Meriden, Conn.
Griffin Mfg. Co., Erie, Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
National Novelty Corp., 826 B'way, New York
Penn Hardware Co., Reading, Pa.
Piqua Handle & Mfg. Co. (Wooden), Piqua, O.
Reading Hardware Co., Reading, Pa.
Rowe, Henry, Mfg. Co., Newaygo, Mich.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Shelby Spring Hinge Co. (Steel, Bronze or Brass Metal, Polished), Shelby, O.
STANLEY WORKS, New Britain, Conn. (See adv. index & branch offices, end of book)
Stover Mfg. Co., Freeport, Ill. (See adv. index, end of book)
WOELKNER & HARRY MANUFACTURING CO. (Polished Brass), 125 Woodbridge W., Detroit, Mich. (See adv. index, end of book)
Western Brass Mfg. Works (Cast Brass or Bronze), 21st & Rockwell, Chicago, Ill.
Wire Goods Co., Worcester, Mass.
Wrightsville Hardware Co., Wrightsville, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

Pulls (Screen Door)

Brooks, M. S. & Sons (Also Ring Shade Pulls), Chester, Conn.
Hunt, Helen, Ferris & Co. ("Star," "Handy"), Harvard, Ill.
Kohler, F. E. & Co., Canton, O.
Stover Mfg. Co., Freeport, Ill.
Troy Nickel Works (John E. Gaitley, Prop'r.) ("Alaska"), Albany, N. Y.

Pulp (Asbestine)

International Pulp Co., Times bldg., New York

Pulpit & Altar Rails

Disbrow, M. A. & Co. (Wholesale Mfrs.), Lyons, Ia.
Hyde-Murphy Co., Ridgway, Pa.
McMillen, R. Co. (Wholesale Mfrs.), Oshkosh, Wis.
Rock Island Sash & Door Works (Wholesale Mfrs.), Rock Island, Ill.
STEARNS, A. T. LUMBER CO., Naponset, Boston, Mass. (See adv. index, end of book)

Pulverizers

(See Crushers, various kinds; also Pulverizing Machinery; also Mills, Grinding)

Pulverizers (Cement)

(See also Cement Machinery)

American Pulverized Co., St. Louis, Mo.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Pulverizers (Clay)

(See also Crushers, Clay)

American Pulverized Co., St. Louis, Mo.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

*Pulverizers (Coal)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Pulverizers (Stone)

American Pulverizer Co., St. Louis, Mo.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Pumice Brick

DOGGETT, STANLEY (Purified), 101 Beekman, New York. (See adv. index, end of book)
HARRISON SUPPLY CO. (Purified), 5 & 7 Dorchester av., Extension, Boston, Mass. (See adv. index, end of book)
Rhodes, James H. & Co. ("Rhodes" Bimsstein Fabrik), 117 Kinzie, Chicago, Ill.

Pumice Stone Importers

Behr, Herman & Co., 75 Beekman, New York
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
Hammill & Gillespie, 240 Front, New York.
Hanson & Van Winkle Co., Newark, N. J.
Harshaw, Fuller & Goodwin Co., Cleveland, O.
HARRISON SUPPLY CO. (Selected Lump), 5 & 7 Dorchester av., Extension, Boston, Mass. (See adv. index, end of book)
Rhodes, Jas. H., & Co. (Grinders of Italian), 117 Kinzie, Chicago, Ill.
Van Amringe, Theo., 241 Water, New York
Waddell & Co., 52 Beekman, New York
Wiarda, Jno. C., & Co., Brooklyn, N. Y.

*Pump Logs

WYCKOFF, A. & SON CO., Elmira, N. Y. (See adv. index, end of book)

Pump Starters (Automatic)

(See Self Starters)

Pumping Machinery

(See Machinery, Pumping; also Pumps, Various Kinds)

*Pumping Outfits for Oil, Gas & Water Wells

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
TATE, JONES & CO. (Inc.), Emplre bldg., Pittsburg, Pa. (See adv. index, end of book)

Pumping Outfits (Horse Power)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Appleton Mfg. Co., Batavia, Ill. (book)
Challenge Co., Batavia, Ill.

DEMING CO., Salem, O. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Myers, F. E., & Bro., Ashland, O. (book)
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
U. S. Wind Engine & Pump Co., Batavia, N. Y.

Pumping Outfits (Odorless)

Edson Mfg. Co., 257 Atlantic av., Boston, Mass.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Noble, H. A. ("National" & "The Improved"), 203 Dock, Phila., Pa.

Pumps (Acid)

Advance Pump & Compressor Co., Battle Creek, Mich.
Bellows Falls Machine Co. (For Mills), Bellows Falls, Vt.

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Cameron, A. S. Steam Pump Works, ft of E 23rd, New York

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index & branch offices, end of book)

National Foundry & Machine Co., Louisville, Ky.

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A V lly., Pittsburgh, Pa. (See adv. index, end of book)

Union Steam Pump Co., Battle Creek, Mich.

WAGENER STEAM PUMP WORKS, Canton, Ohio. (See adv. index, end of book)

Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.

Pumps (Air)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Steam Pump Co., Battle Creek, Mich.

Asbell, S. J. Co. (Hand), Paterson, N. J.

Auburn Auto Pump Co. (Hand Air Pumps for Drawing Liquids), Auburn, N. Y.

Bishop & Babcock Co. (Hand), Cleveland, O.

Blakeslee Mfg. Co., Du Quoin, Ill.

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: E. Cambridge, Mass. (See adv. index & branch offices, end of book)

Brunner Mfg. Co. ("Parker"), Utica, N. Y.

Buffalo Steam Pump Co. (Hand Circulating), Buffalo, N. Y.

Button & Johnson, Cleveland, O.

Cameron, A. S. Steam Pump Works, ft E 23d, New York

Canton-Hughes Pump Co., Canton & Cleveland, O.

Carron, A. M. & Co. (Small, Electric), 220 Penn av., Pittsburg, Pa.

CLAYTON AIR COMPRESSOR WKS ("Brewers"), 115 B'way, New York. (See adv. index & branch offices, end of book)

Columbus Steam Pump Works, Columbus, O.

Comstock, A. S. (Motor Driven), Evanston, Ill.

Crowell, Gilmer ("Crowell" Rotary), 296 Taaffe pl., Brooklyn, N. Y.

Davidson, M. T. (Single & Twin Cylinder, etc.), 43 Keap, Brooklyn, N. Y.

Dean Bros.' Steam Pump Wks (Twin Cylinder), Indianapolis, Ind.

DEANE STEAM PUMP CO., 115 B'way, New York; Works: Holyoke, Mass. (See adv. index & branch offices, end of book)

DEMING CO., Salem, O. (See adv. index, end of book)

Douglas, W. & B., Middletown, Conn.: 83 John, New York

Dow, Geo. E. Pumping Co., 179 1st, San Francisco, Cal.

Economic Power & Pump Co., 84 Cortlandt, New York

Filer & Stowell Co., Milwaukee, Wis.

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

Garratt, W. T. & Co., San Francisco, Cal.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Harris Air Pump Co., Indianapolis, Ind.

Humphries Mfg. Co. (Automatic), Mansfield, Ohio

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

LIDLAW-DUNN-GORDON CO. (Brewers'), 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

McKenna Bros. Brass Co. (Brass), 1st av. & Ross, Pittsburg, Pa.

Manistee Iron Works, Manistee, Mich.

Mason Regulator Co., Boston, Mass.

Mesta Machine Co., Lewis bldg., Pittsburg, Pa.

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

National Foundry & Machine Co., Louisville, Ky.

N. Y. Air Brake Co., 165 B'way, New York

Ohio Pump & Brass Co. ("Triumph," Physicians' & Surgeons' Hydraulic), 18th & Oak, Patten Bros. Co., Marietta, O. Columbus, O.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Prescott, Fred M. Steam Pump Co., West Allis, Wis.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

SNOW STEAM PUMP WORKS, 115 B'way, New York; Works: Buffalo, N. Y. (See adv. index & branch offices, end of book)

Strater, Herman & Sons (Beer), 74 Sudbury, Boston, Mass.

Union Iron Works Co. (And Condenser), San Francisco, Cal.

Union Steam Pump Co. (Direct Acting), Battle Creek, Mich.

Warren Steam Pump Co. (And Condenser), Warren, Mass.

Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.

WESTINGHOUSE MACHINE CO. (Leblanc Turbine Type), Westinghouse bldg., Pittsburgh, Pa. (See adv. index, end of book)

Wheeler, C. H. Mfg. Co. ("Mullan" Suction, Valveless, Single, Duplex & Triple), Phila., Pa.

Wheeler Condenser & Engineering Co. ("Edwards," for Marine Engines), Carteret, N. J.

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Pumps (Air Chamber)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Myers, F. E. & Bro., Ashland, O. (book)

Wilder, Sidney & Co., Holliston, Mass.

Pumps (Air Lift)

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

CLAYTON AIR COMPRESSOR WKS, 115 B'way, New York. (See adv. index & branch offices, end of book)

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hall Steam Pump Co., Pittsburg, Pa.

Harris Air Pump Co., Indianapolis, Ind.

Hudson Engineering Co., 90 West, New York

Indiana Air Pump Co., Indianapolis, Ind.

INGERSOLL-RAND CO. ("Pohle" & "Saunders"), 11 B'way, New York. (See adv. index & branch offices, end of book)

Pumps (Air, Tire)

Auburn Auto Pump Co., Auburn, N. Y.

Auto Pump Co. ("Spencer"), Springfield, N. Y.

Beckley-Ralston Co., 178 Lake, Chicago, Ill.

Bishop & Babcock Co., Cleveland, O.

Braunsdorf-Muller Co. (Bicycle), Elizabeth, N. J.

Bride, Wm. J., & Co. ("Austin"), Reading, Mass.

Bridgeport Brass Co. ("Demo"), 253 B'way, New York

Cleveland Faucet Co. ("Champion"), 17 Frankfort, Cleveland, Ohio

Eberman Auto Appliance Co. ("Eberman" Auto-Power Tire Pump), 98 Jackson boul., Chicago, Ill.

Frost Mfg. Co. ("Forcair"), Kenosha, Wis.
Garage Equipment Co. ("Dash"), 12 31st, Milwaukee, Wis.

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

Globe Brass Co., 13 Macomb, Detroit, Mich.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Heath-Qulmby Co., Minneapolis, Minn.

Imperial Brass Mfg. Co. ("Imperial-Wixon"), 242 S Jefferson, Chicago, Ill.

Ingersoll, Robt. H., & Bro. (Bicycle), 45 John, New York

Judd & Leland Mfg. Co., Clifton Springs, N. Y.

Kellogg Mfg. Co., Rochester, N. Y.

Motor Car Specialty Co. ("Lea"), Trenton, N. J.

Motor Car Supply Co. ("Windejammer"), 1427 Michigan av, Chicago, Ill.

Noera Mfg. Co., Waterbury, Conn.

Nyberg Auto Works ("Tom"), 30th & Michigan av, Chicago, Ill.

Post & Lester Co., 20 Sargent, Hartford, Conn.

Rohrbacher Automatic Air Pump Co. (Automatic), 1231 Michigan av, Chicago, Ill.

Rome Bicycle Mfg. Co. (Bicycle), Rome, N. Y.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Scovill Mfg. Co. (Bicycle), Waterbury, Conn.

Skinner & Skinner ("Skinner"), 4133 Indiana av, Chicago, Ill.

Smith, D. B. & Co. (Bicycle), Utica, N. Y.

Standard Sheet Metal Co., Passaic, N. J.

Stevens & Co. ("Ultra"), 99 Chambers, New York

Thomas, W. K., 1876 B'way, New York

Turner Brass Works ("Turner"), Sycamore, Ill.

Union Steam Pump Co. (Air Feed), Battle Creek, Mich.

Upton Motor Co., Lebanon, Pa.

Waterbury Mfg. Co., Waterbury, Conn.

Pumps (Ammonia)

(See Pumps, Steam)

Advance Pump & Compressor Co., Battle Creek, Mich.

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Buffalo Steam Pump Co., Buffalo, N. Y.

Cameron, A. S., Steam Pump Works, foot E. 23d, New York

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.

Gas Machinery Co., Cleveland, O.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Guild & Garrison, Kent ave. & S. 10th, Brooklyn, N. Y.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, O.

WAGENER STEAM PUMP WORKS, Canton, Ohio. (See adv. index, end of book)

Pumps (Artesian Well)

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Cook, A. D., Lawrenceburg, Ind.

Cook-Well Co., St. Louis, Mo.

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Davidson, M. T. (Horizontal & Vertical), 43 Keap, Brooklyn, N. Y.

DEMING & CO., Salem, O. (See adv. index, end of book)

Epping-Carpenter Co. (Direct Acting), Pittsburg, Pa.

FAIRBANKS, MORSE & CO. (Gas, Gasoline & Oil), Wabash av. & Eldredge pl., Chicago, Ill. (See index & branch offices, end of book)

Flint & Walling Mfg. Co., Kendallville, Ind.

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Luitwiler Pumping Engine Co. ("Non-Pulsating Balanced"), Rochester, N. Y.

Myers, F. E. & Bro., Ashland, O.

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, O.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Union Steam Pump Co., Battle Creek, Mich.

U. S. Wind Engine & Pump Co., Batavia, Ill.

Weinman Machine Works, Columbus, O.

Pumps (Automatic)

Advance Pump & Compressor Co., Battle Creek, Mich.

AMERICAN WELL WORKS ("Chapman" Water Intake to Drain Mines, Quarries, etc., for Shallow or High Lift), Aurora, Ill. (See adv. index & branch offices, end of book)

BLAKE, GEO. F. MFG. CO. (Automatic Pumps & Receivers), 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Blake Pump & Condenser Co. (Automatic Pumps & Receivers), Fitchburg, Mass.

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Cameron, A. S. Steam Pump Works, ft E 23d, New York

DEANE STEAM PUMP CO., (Automatic Feed Pumps & Receivers), 115 B'way, New York; Works: Holyoke, Mass. (See adv. index & branch offices, end of book)

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS (Automatic Pumps & Receivers), 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

PLATT IRON WORKS CO. (Automatic Pump & Receiver), Dayton, O. (See adv. index & branch offices, end of book)

Quimby, Wm. E. (Inc.), 3 W 29th, New York

SNOW STEAM PUMP WKS (Automatic Feed Pumps & Receivers), 115 B'way, New York; Works: Buffalo, N. Y. (See adv. index & branch offices, end of book)

Weinman Machine Works, Columbus, O.

WORTHINGTON, HENRY R. (Automatic Feed Pumps & Receivers), 115 B'way, New York. (See adv. index & branch offices, end of book)

Pumps (Automobile)

(See also Pumps, Air, Tire; also Pumps, Circulating)

Auburn Auto Pump Co. ("Ultra Compound"), Auburn, N. Y.

DEMING CO., Salem, O. (See adv. index, end of book)

GOULDS MFG. CO. (Tire & Tank), Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

LUNKENHEIMER CO. (Hand, Oil & Air), General Offices & Work: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Noera Mfg. Co., Waterbury, Conn.

Quimby, Wm. E. (Inc.), 3 W 29th, New York

Standard Sheet Metal Co., Passaic, N. J.

Turner Brass Works ("Turner" Bilge, Pressure, etc.), Sycamore, Ill.

Union Steam Pump Co. (Air Feed), Battle Creek, Mich.

Victor Elastic Co. (Tire), 61 Market, Chicago, Ill.

*Pumps (Ballast)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

DEANE STEAM PUMP CO., 115 B'way, New York; Works: Holyoke, Mass. (See adv. index & branch offices, end of book)

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

SNOW STEAM PUMP WORKS, 115 B'way, New York; Works: Buffalo, N. Y. (See adv. index & branch offices, end of book)

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

*Pumps (Barrel)

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

WILSON, F. CORTEZ & CO. (Tin), 239 Lake, Chicago, Ill. (See adv. index, end of book)

Pumps (Belt-Driven)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Cameron, A. S. Steam Pump Works, ft. of E 23d, New York

Carbondale Machine Co., Carbondale, Pa.

DEMING CO., Salem, O. (See adv. index, end of book)

DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)

FAIRBANKS, MORSE & CO, Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

Myers, F. E. & Bro., Ashland, O.

Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

Quimby, Wm. E. (Inc.), 3 W 29th, New York

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Van Wle Pump Co., Syracuse, N. Y.

Weinman Machine Works, Columbus, O.

Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Pumps (Bicycle)

(See Pumps, Air Tire)

Pumps (Bilge)

Blakeslee Mfg. Co. (Inc.), Du Quoin, Ill.

ABENDROTH & ROOT MFG. CO. (Spiral Riveted), Newburgh, N. Y. (See adv. index & branch offices, end of book)

Abendroth & Stein (Inc.), Spiral or Straight Riveted), 39 Cortlandt, New York

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Buffalo Steam Pump Co., Buffalo, N. Y.

Cameron, A. S., Steam Pump Works, foot E. 23d, New York

Durkee, C. B. & Co. ("Wurk-E-Z-E"), 3 South, New York

Edson Mfg. Co., 255 Atlantic av, Boston, Mass.

Epping-Carpenter Co., Pittsburg, Pa.

FAIRBANKS, MORSE & CO, Wabash av & Eldredge, pl, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Humphries Mfg. Co., Mansfield, O.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Lobe Pump & Machinery Co., 127 Terrace, Buffalo, N. Y.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

National Mfg. Co. ("Johnson"), Worcester, Mass.
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
 Prescott, Fred M., Steam Pump Co., West Allis, Wis.
 Rumsey & Co. (Ltd.) (Shlps. Main & Bilge), Seneca Falls, N. Y.
 Sands, Alfred B. & Son Co., 242 Water, New York
THOMAS & SMITH (Inc.), ("Economy" Electric), 17 S Carpenter, Chicago, Ill. & 288 Hudson, New York. (See adv. index, end of book)
WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Pumps (Boiler Feed)

Advance Pump & Compressor Co., Battle Creek, Mich.
 Aetna Foundry & Machine Co., Springfield, Ill.
 American Steam Pump Co. ("Marsh"), Battle Creek, Mich.
 Baragwanath, Wm. & Son, 52 W. Division, Chicago, Ill.
 Berry Engineering Co. ("Berry"), Chester, Pa.
 Bishop, Wm. Sons (Brass & Copper), 205 South, New York.
BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
 Blake Pump & Condenser Co. ("Duplex"), Fitchburg, Mass.
 Blakeslee Mfg. Co. (Inc.), Du Quoin, Ill.
 Boyts, Porter & Co. (Special), Connellsville, Pa.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Burton & Johnson, Cleveland, O.
 Cameron, A. S. Steam Pump Works, ft. E 23d, New York
 Canton-Hughes Pump Co., Canton & Cleveland, O.
CARLIN'S, THOS. SONS CO., 1610 River av., North Side, Pittsburg, Pa. (See adv. index, end of book)
 Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.
 Columbus Steam Pump Works, Columbus, O.
 Crawford & McCrimmon Co., Brazil, Ind.
 Davidson, M. T., 43 Keap, Brooklyn, N. Y.
 Davis, I. B. & Son, Hartford, Conn.
 Dayton Hydraulic Machinery Co. ("Dayton"), Dayton, O.
 Dean Bros.' Steam Pump Works, Indianapolis, Ind.
DEMING CO. (Hand and Power), Salem, O. (See adv. index, end of book)
 Douglas, W. & B., Middletown, Conn., & 83 John, New York
 Elgin Mfg. Co. ("Elgin" Geared), Elgin, Ill.
 Epping-Carpenter Co., Pittsburg, Pa.
FAIRBANKS, MORSE & CO., Wabash av & Eldridge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
 Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Great Lakes Engineering Works, Detroit, Mich.
 Hall Steam Pump Co., Pittsburg, Pa.
 Heisler Mfg. Co., St. Marys, O.
 Hill Machine Co., Anderson, Ind.
 Jeansville Iron Works Co., Jeansville, Pa.
 Kelley, Benj. F. & Son (Economical Boiler & Tank Feed Pumps), 26 Cortlandt, New York
KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
 Kruger & Blind Co., 511 Master, Phila., Pa.
LIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)
 Lucas, C. O. & Co., Greenville, O.
 McGowan, Jno. H. Co., Cincinnati, O.
 Manistee Iron Works Co., Manistee, Mich.
 Marlon Machine & Tool Co., Marlon, Ind.
 Mason Regulator Co., Boston, Mass.
MINNEAPOLIS STEEL & MACHINERY CO. (Belt Driven or Geared), Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Moline Pump Co. (Hand), Moline, Ill.
 Myers, F. E. & Bro., Ashland, O.

Nason Mfg. Co., 71 Beekman, New York
 National Foundry & Machine Co., Louisville, Ky.
 National Steam Pump Co., Upper Sandusky, O.
 Noye Mfg. Co. (Run by Belt), 50 Lakeview av., Buffalo, N. Y.
 Patten Bros. Co., Marietta, O.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburg, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A V Ry., Pittsburg, Pa. (See adv. index, end of book)
PLATT IRON WORKS CO. (Either Single, Duplex, Compound, Triplex or Fly Wheel), Dayton, O. (See adv. index & branch offices, end of book)
 Presscott, Fred M., Steam Pump Co., West Roberts, G. J. Co., Dayton, O. Allis, Wis.
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Scranton Steam Pump Co., Scranton, Pa.
 Sherwood Mfg. Co. (Hand), Buffalo, N. Y.
 Smeallie Bros., Amsterdam, N. Y.
 Stewart Heater Co., Buffalo, N. Y.
 Union Steam Pump Co., Battle Creek, Mich.
 Van Wle Pump Co., Syracuse, N. Y.
WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)
 Warren Steam Pump Co., Warren, Mass.
 Wehman Machine Works, Columbus, Ohio.
 Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.
 Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.
 Wilson-Snyder Mfg. Co., Ross & Water, Pittsburgh, Pa.
 Xander Machine & Supply Co. (Hand), Reading, Pa.

Pumps (Boiler Testing)

Cleveland Steam Gauge Co., Cleveland, O.
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
 Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
DEMING CO., Salem, O. (See adv. index, end of book)
 Douglas, W. & B., Middletown, Conn., & 83 John, New York
DUDGEON, RICHARD (Hydraulic), 24 Columbia, New York. (See adv. index, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Henderer's, A. L. Sons, Wilmington, Del.
 Lovejoy Tool Works, 86 E. Ohio, Chicago, Ill.
NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

Pumps (Brass)

Barnes Mfg. Co., Mansfield, O.
 Bishop's, Wm. Sons, 205 South, New York
BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)
 Bridgeport Brass Co., Bridgeport, Conn.
 Crook-Horner Co., Baltimore, Md.
 Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
DEMING CO., Salem, O. (See adv. index, end of book)
 Douglas, W. & B., Middletown, Conn., & 83 John, New York
 Federal-Huber Co., Halsted & Fulton, Chicago, Ill.; & 244 5th av., New York
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Haydenville Co., Haydenville, Mass.
 Humphreys Mfg. Co., Mansfield, O.
 Illinois Malleable Iron Co., 515 Diversey boul., Chicago, Ill.
 Kirkup, Robt. & Co., 620 Lodge, Cincinnati, O.
 McDonald, A. Y. & Morrison Mfg. Co., Dubuque, Iowa
MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)
 Murdock Mfg. & Supply Co., Cincinnati, O.
 Myers, F. E. & Bro., Ashland, O.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Union Mfg. Co., New Britain, Conn.

Pumps (Brewery)

(See Pumps, Steam)

Pumps (Brine)

(See Also Pumps, Steam)

Advance Pump & Compressor Co., Battle Creek, Mich.
BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Cameron, A. S., Steam Pump Co., ft. E. 23d, New York.
DEMING CO., Salem, O. (See adv. index, end of book)
GARDNER GOVERNOR CO. ("Gardner"), (See adv. index, end of book)
KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
MORRIS MACHINE WORKS, Baldwin, N. Y. (See adv. index & branch offices, end of book)
 National Foundry & Machine Co., Louisville, Ky.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Prescott, Fred M., Steam Pump Co., West Allis, Wis.
 Quimby, Wm. E. (Inc.) (Circulating), 3 W 29th, New York
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburg, Pa. (See adv. index, end of book)
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)

Pumps (Centrifugal)

Alberger Condenser Co. (Steam or Motor Driven), 95 Liberty, New York
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Barnes Mfg. Co., Mansfield, O. of book)
 Barry & Zecher Co. (For Tanners), Lancaster, Pa.
 Bellows Falls Machine Co. (For Paper Mills), Bellows Falls, Vt.
 Black-Clawson Co., Hamilton, O.
 Boggs & Clarke (Also Geared Centrifugal Steam Pumps & Tandem or Compound), Syracuse, N. Y.
BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)
 Bucyrus Co. (Dredging), South Milwaukee, Wis.
 Buffalo Forge Co., Buffalo, N. Y.
 Buffalo Gasoline Motor Co. ("Buffalo" Pump & Gasoline Engine Combined for Hotels, Summer Houses, etc.), Buffalo, N. Y.
 Buffalo Steam Pump Co. (And "Cooley" Rotary Engine), Buffalo, N. Y.
 Burroughs, Chas. Co., Newark, N. J.
CARLIN'S, THOS. SONS CO., 1610 River av., North Side, Pittsburg, Pa. (See adv. index, end of book)
 Charleston Iron Works, Charleston, S. C.
 Clot & Christ Machine Co., 137 Beale, San Francisco, Cal.
 Craft, Jesse, 154 Nassau, New York
 Davis-Johnson Mfg. Co., 345 S Canal, Chicago, Ill.
 Dayton Hydraulic Machinery Co. ("Brooks"), Dayton, O.
 De Laval Steam Turbine Co., Trenton, N. J.
DEMING CO., Salem, O. (See adv. index, end of book)
 D'Olier Engineering Co., 119 S. 11th, Phila., Pa.
 Douglas, W. & B., Middletown, Conn., & 83 John, New York
 Edwards, Jos. & Co. ("Cataract"), 412 Water, New York
ELLCOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)
 Emerson Mfg. Co., Lawrence, Mass.
 Erie Pump & Engine Co., Erie, Pa.
 Friction Pulley & Machine Works (For Paper Mills, etc.), Sandy Hill, N. Y.
 Fulton Mach. & Vise Co. ("Fulton"), Lowville, N. Y.
 Garratt, W. T. & Co., San Francisco, Cal.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Great Lakes Engineering Works (Large Capacity), Rivard & Detroit River, Detroit, Mich.
 Haselhurst, W. W., San Francisco, Cal.



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Jackson Byron Machine Works, 411 Market, San Francisco, Cal.
Jeansville Iron Wks. Co., Hazelton, Pa.
Kansas City Hay Press Co., Kansas City, Mo.
Kansas City Hay Press Co., Kansas City, Mo.
Kingsford Foundry & Machine Works, Oswego, N. Y.
Krogh Mfg. Co., San Francisco, Cal.
Lake City Engineering Co., Erie, Pa.
Lawrence Machine Co., Lawrence, Mass.
Lawrence Pump & Engine Co., Lawrence, Mass.
Luitwieler Pumping Engine Co. (Deep Well), Rochester, N. Y.
McCoy, Henry J. Co., 65 & 67 Dey, New York. (See adv. index, end of book)
MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Maslin, Jno. & Son, 163 1st, Jersey City, N. J.
Moore & White Co., 15th & Lehigh av, Phila., Pa.
Morris, I. P. Co., Beach & Ball, Phila., Pa.
MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index & branch offices, end of book)
Potts, C. & A. Co., Indianapolis, Ind.
Portage Lake Foundry & Machinery Co. (for Mines), Hancock, Mich.
Prescott, Fred M., Steam Pump Co., West Allis, Wis.
Price, G. W., Pump & Engine Co., San Francisco, Cal.
Reliance Machine & Tool Works, 3341 Franklin av, St. Louis, Mo.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Samson Iron Works (Inc.) ("Samson"), Stockton, Cal.
SHAW, WILLIS CO., 171 Lasalle, Chicago, Ill. (See adv. index, end of book)
Southwark Foundry & Machine Co., Washington av & 5th, Phila., Pa.
Tod, Wm. Co. (For Sewerage & Drainage), Youngstown, Ohio

Toledo Foundry & Machine Co. (Sand), Toledo, O.
Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.
United Iron Works ("Eclipse" & Step Pressure), Oakland, Cal.
Van Wie Pump Co., Syracuse, N. Y.
WETHERILL BROS., MACHINE CO., Chester, Pa. (See adv. index, end of book)
Wheeler Condenser & Engineering Co. ("Wheeler" Improved), Cartaret, N. J.
Wood, R. D. & Co. (High Grade Direct Connected or Belt Driven for Water Tanks), 400 Chestnut, Phila., Pa.
WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)
Yeatman, Jno. A. & Co. (Eclipse), 13 1st, San Francisco, Cal.

Pumps (Centrifugal, Water Tank)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Brown & Sharpe Mfg. Co., Providence, R. I.
Urie-Snyder Iron Works Co., Kansas City, Mo.

Pumps (Chain)

American Pump & Supply Co., Toledo, O.
Bellevue Pump Co., Bellevue, Ia.
Biggs, B. F. Pump Co., Lafayette, Ind.
Blank Mfg. Co. (Galvanized Steel Chain), Quincy, Ill.
Bucket Pump Co., Cincinnati, O.
Bushnell Pump Co., Bushnell, Ill.
Cedar Rapids Pump Co., Cedar Rapids, Ia.
Comstock & Coonse Co., Indianapolis, Ind.
Douglass-Clark Co., Lafayette, Ind.
GOULDS MFG. CO., (Chain Driven), Seneca Falls, N. Y. (See adv. index and branch offices, end of book)
Gregory & Walker, Norwalk, O.
King, M. J. & Son, Collins Centre, N. Y.
McDonald, A. Y. & Morrison Mfg. Co., Du-
Pfender Bros., Evansville, Ind. buque, Ia.

St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
Temple Pump Co., Chicago, Ill.
Union Mfg. Co., New Britain, Conn.
WYCKOFF, A. & SON CO., Elmira, N. Y. (See adv. index, end of book)

*Pumps (Chemical Plant)

LAIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

Pumps (Circulating)

Advance Pump & Compressor Co., Battle Creek, Mich.
Auto Brass & Aluminum Co., Flint, Mich.
Auto & Power Appliance Co., Cleveland, Ohio.
BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
Bock & Severin ("Advance"), Chicago, Ill.
Brennan Mfg. Co., Syracuse, N. Y.
Briscoe Mfg. Co., 1427 Woodward av, Detroit, Mich.
Brown & Sharpe Mfg. Co., Providence, R. I.
Byrne-Kingston & Co. ("Kingston"), Kokomo, Ind.
Buffalo Steam Pump Co., Buffalo, N. Y.
Cambria Forge Co., Johnstown, Pa.
Dyke, A. L., Automobile Supply Co., Olive & Walton, St. Louis, Mo.
Essex, G. B., Brass Co., Detroit, Mich.
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
Garvin Machine Co., Spring & Varick, New York
Globe Mach. & Stamping Co., Cleveland, O.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Harrington-Wiard Co., Batavia, N. Y.
Hussey Drop Forge & Mfg. Co., Axtell opp. Osage, Cleveland, O.
Lipman Mfg. Co., Beloit, Wis.
Imperial Brass Mfg. Co., Chicago, Ill.



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Lobe Pump & Mach. Co., 140 Terrace, Buffalo, N. Y.

Locke Regulator Co., Salem, Mass.

Loomis Autocar Co., Westfield, Mass.

McCord & Co., ("McKenna") Old Colony Bldg., Chicago, Ill.

Milwaukee Auto Engine & Supply Co., 706 Winnebago, Milwaukee, Wis.

Milwaukee Motor Co., Milwaukee, Wis.

MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index & branch offices, end of book)

Never-Miss Spark Plug Co., Lansing, Mich.

N. Y. Gear Works ("Ball"), 56 Greenpoint av., Brooklyn, N. Y.

Oberdorfer Bros. Co., Syracuse, N. Y.

PLATT IRON WORKS CO. (Air & Circulating), Dayton, O. (See adv. index & branch offices, end of book)

Ross & Kramer, 5607 Halsted, Chicago, Ill.

Seitz, F. A. Co., Newark, N. J.

Sullivan, John W., ft E 39th, Brooklyn, N. Y.

WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)

Westernfield Motor Co., Anderson, Ind.

Wilson Automobile Mfg. Co., Wilson, N. Y.

Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Pumps (Cistern)

Aermotor Co., Campbell av, nr. 12th, Chicago, Ill.

Althousc-Wheeler Co. (Close Top, Pitcher Spout), Waupun, Wis.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Athol Pump Co., Athol, Mass. (book)

Barnes Mfg. Co., Mansfield, O.

Bellevue Pump Co., Bellevue, Ia.

Cedar Rapids Pump Co., Cedar Rapids, Ia.

DEMING CO., Salem, O. (See adv. index, end of book)

Douglas, W. & B., Middletown, Conn., & 83 John, New York

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Flint & Walling Mfg. Co., Kendallville, Ind.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hayes Pump & Planter Co., Galva, Ill.

Hess, Snyder Co., Massillon, O.

Humphries Mfg. Co., Mansfield, O.

McGowan, John H. Co., Cincinnati, O.

Moline Pump Co., Moline, Ill.

Myers, F. E., & Bro., Ashland, O.

Peters Pump Co., Kewanee, Ill.

Porter, J. E., Co., Ottawa, Ill.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Union Mfg. Co., New Britain, Conn.

U. S. Wind Engine & Pump Co., Batavia, Ill.

Wilder, Sidney & Co., Holliston, Mass.

Pumps (Combined Air & Circulating)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Blake Pump & Condenser Co., Fitchburg, Mass.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

*Pumps (Compression Tank)

DEMING CO., Salem, O. (See adv. index, end of book)

Pumps (Condenser)

(See Condensers, Steam)

Pumps (Contractors', for Sewers & Foundations)

Boggs & Clarke, Syracuse, N. Y.

Cameron, A. S., Steam Pump Works, ft. E. 23d New York

Craft, Jesse, 154 Nassau, New York

DEMING CO., Salem, O. (See adv. index, end of book)

Douglas, W. & B., Middletown, Conn., & 83 John, New York

Edson Mfg. Co., 257 Atlantic av, Boston, Mass.

Erie Pump & Engine Co., Erie, Pa.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Kingsford Foundry & Machine Works, Oswego, N. Y.

Lawrence Machine Co., Lawrence, Mass.

MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index & branch offices, end of book)

Myers, F. E. & Bro., Ashland, O.

Pulsometer Steam Pump Co., Whitehall bldg, New York

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

Van Wie Pump Co., Syracuse, N. Y.

Pumps (Copper)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Athol Pump Co., Athol, Mass. (book)

Bishop's, Wm. Sons, 205 South, New York.

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index & branch offices, end of book)

Myers, F. E. & Bro., Ashland, O.

Sands, Alfred B. & Son Co., Vesey, New York

Union Mfg. Co., New Britain, Conn.

Wilder, Sidney & Co., Holliston, Mass.

WILSON, F. CORTEZ & CO., 239 Lake Chicago, Ill. (See adv. index, end of book)

Pumps (Cornish)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Griffith & Wedge Co., Zanesville, O.

Hendy, Joshua Machine Works, 38 Fremont, San Francisco, Cal.

Morris County Machine & Iron Co., Dover, N. J.

Portage Lake Foundry & Machinery Co., Hancock, Mich.

Union Iron Works Co., San Francisco, Cal.

Pumps (Cotton Compress)

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Pumps (Creamery)

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

DEMING CO., Salem, O. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Humphries Mfg. Co. (Porcelain Enameled), Mansfield, O.

Prescott, Fred M., Steam Pump Co., West Allis, Wis.

Union Steam Pump Co., Battle Creek, Mich.

Van Wie Pump Co., Syracuse, N. Y.

WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)

Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.

Pumps (Deck)

(See Pumps, Ship & Deck)

Pumps (Deep Well)

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS (Steam), for Artesian Wells, etc., Aurora, Ill. (See adv. index & branch offices, end of book)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Boyts, Porter & Co. (Vertical), Connelville, Pa.

Cameron, A. S., Steam Pump Works, ft E 23d, Challenge Co., Batavia, N. Y.

Clot & Christ Machine Co., San Francisco, Cal.

Columbus Steam Pump Works, Columbus, O.

Cook Well Co., St. Louis, Mo.

Corcoran, A. J. (Inc.), 4 John, New York.

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

DEMING CO. (Hand and Power), Salem, O. (See adv. index, end of book)

Douglas, W. & B., Middletown, Conn., & 83 John, New York

Eppling-Carpenter Co., Pittsburg, Pa.

Evans, C. H. & Co., San Francisco, Cal.

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Foster Pump Works, 224 Plymouth, Brooklyn, N. Y.

Garratt, W. T. & Co., San Francisco, Cal.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hall Steam Pump Co., Pittsburg, Pa.

Hartig Standard Gas Engine Co., Newark, N. J.

Heisler Mfg. Co. (High Duty), St. Marys, O.

Hess-Snyder Co., Massillon, O.

Hill Machine Co., Anderson, Ind.

Humphries Mfg. Co., Mansfield, O.

Indiana Air Pump Co. (Air Lift), Indianapolis, Ind.

Jarecki Mfg. Co. (Brass), Erie, Pa., & Pittsburg, Pa.

Keystone Driller Co. ("Downie"), Beaver Falls, Pa.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Luitwieler Pumping Co., Rochester, N. Y.

McGowan, John H. Co., Cincinnati, O.

Manistee Iron Works Co., Manistee, Mich.

Mast, Foos & Co., Springfield, O.

Myers, F. E., & Bro., Ashland, O.

National Foundry & Machine Co., Louisville, Ky.

National Steam Pump Co., Upper Sandusky, O.

OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Peters Pump Co., Kewanee, Ill.

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A V Ry., Pittsburgh, Pa. (See adv. index, end of book)

PLATT IRON WORKS CO. (Powers), Dayton, O. (See adv. index & branch offices, end of book)

Reliance Machine & Tool Works, 3333 Franklin av, St. Louis, Mo.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Van Wie Pump Co., Syracuse, N. Y.

Warren Steam Pump Co., Warren, Mass.

Welman Machine Works (Electric & Belt Driven), Columbus, O.

Wilder, Sidney & Co., Holliston, Mass.

Pumps (Diaphragm)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Barnes Mfg. Co., Mansfield, O. (book)

Boston & Lockport Block Co., Boston, Mass.

DEMING CO., Salem, O. (See adv. index, end of book)

Donohue, Jno. T. & Co. (Trench), Baltimore, Md.

Edson Mfg. Co. (Force Lift), Boston, Mass.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Humphries Mfg. Co., Mansfield, O.

Lawler Regulator Co., 473 W B'way, New York

McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.

*Pumps (Drainage)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index & branch offices, end of book)

Pumps (Dredging)

(See Pumps, Sand & Dredging)

Pumps (Electric)

Agnew Electric Mfg. Co. ("Kanawha"), Charleston, W. Va.

Allentown Rolling Mills ("Aldrich"), Allentown, Pa.

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end of book)
Automatic Rotary Pump Co., Bible House, New York

Birdsboro Steel Foundry & Machine Co. ("Aldrich"), Birdsboro, Pa.

BLAKE, GEO. F. MFG. CO. (Mine Sinking), 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Bleyie Electric Co. ("Economic"), 84 Cortlandt, New York

BLISS, E. W. CO. ("Mosburg"), 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Boys, Porter & Co., Connellsville, Pa.
Buffalo Steam Pump Co., Buffalo, N. Y.

Pumps (Electric, Pure Air)

Acorn Engineering & Mfg. Co. (Automatic for Pumping Pure Air), 27 Thames, New York

Pumps (Elevator)

Advance Pump & Compressor Co., Battle Creek, Mich.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Blake Pump & Condenser Co., Fitchburg, Mass.

Blakeslee Mfg. Co., Du Quoin, Ill.

Buffalo Steam Pump Co., Buffalo, N. Y.

Burton & Johnson, Cleveland, O.

Canton-Hughes Pump Co., Canton & Cleveland, O.

Davidson, M. T., 43 Keap, Brooklyn, N. Y.

Dean Bros. Steam Pump Works, Indianapolis, Ind.

DEANE STEAM PUMP CO., 115 B'way, New York; Works: Holyoke, Mass. (See adv. index & branch offices, end of book)

Douglas, W. & B., Middletown, Conn., & 83 John, New York

Epping-Carpenter Co., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

Garratt, W. T. & Co., San Francisco, Cal.

Goodman Mfg. Co., 48th pl & S Halsted, Chicago, Ill.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hall Steam Pump Co., Pittsburg, Pa.

Heisler Mfg. Co., St. Marys, O.

LAIDLAW-DUNN-GORDON CO., 115 B'way, New York; Works: Cincinnati, O. (See adv. index & branch offices, end of book)

Luitwieler Pumping Engine Co. (Non-Pulsating Balanced), 405 N Main, Los Angeles, Cal.

McGowan, John H. Co., Cincinnati, O.

National Foundry & Machine Co., Louisville, Ky.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Prescott, Fred. M., Steam Pump Co., West Allis, Wis.

Quimby, Wm. E. (Inc.), 3 W 29th, New York

Roots, P. H. & F. M. Co., Connersville, Ind.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Union Steam Pump Co., Battle Creek, Mich.

Van Wie Pump Co., Syracuse, N. Y.

Pumps (Fan & Stuff)

Bellows Falls Machine Co., Bellows Falls, Vt.

Clark, H. C. & Son Machine Co., Lee, Mass.

Emerson Mfg. Co., Lawrence, Mass.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index, end of book)

Rice-Barton & Fales Machine & Iron Co., Worcester, Mass.

Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.

Pumps (Filter Press)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Buffalo Steam Pump Co., Buffalo, N. Y.

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

GUILD & GARRISON, ft of S 10th, Brooklyn, N. Y.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Sbriver, T. & Co., Harrison, N. J.

WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)

Pumps (Fire)

(See Pumps, Steam)

*Pumps (Fire Protection)

DEMING CO., Salem, O. (See adv. index, end of book)

Pumps (Force & Lift)

Althouse-Wheeler Co. (Hand Force), Waupun, Wis.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Athol Pump Co., Athol, Mass.

Baker Mfg. Co., Evansville, Wis.

Barnes Mfg. Co., Mansfield, O.

BERNZ, OTTO, S. 13th & S. Orange av., Newark, N. J. (See adv. index, end of book)

Blymyer Iron Works Co. ("Crown," "Star" Hand & Power Double Acting), Spring Grove av & Terrace pl, Cincinnati, O.

Columbiana Pump Co., Columbiana, O.

Comstock & Coonse Co., Indianapolis, Ind.

Corcoran, Andrew J., 11 John, New York

Crook-Horner Co., Baltimore, Md.

DEMING CO., Salem, O. (See adv. index, end of book)

Douglas, W. & B., Middletown, Conn., & 85 John, New York

Dubois Iron Works, Dubois, Pa.

Duplex Mfg. Co., Superior, Wis.

Eccles, Jas., 2424 Ambler, Phila., Pa.

Edwards, Jos. & Co., 416 Water, New York

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Field Force Pump Co., Elmira, N. Y.

Flint & Walling Mfg. Co., Kendallville, Ind.

Geiser Mfg. Co., Waynesboro, Pa.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hanson & Rhodes, 157 W 29th, New York

Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.

Haydensville Co., Haydensville, Mass.

Hayes Pump & Planter Co. (House Windmill, etc.), Galva, Ill.

Hess, Snyder Co. (Novelty), Massillon, O.

Humphrey Machine Co. (Force), Keene, N. H.

Humphries Mfg. Co. (Force), Mansfield, O.

Kirkup, Robt. & Co., 620 Lodge, Cinn., O.

Klotz Machine Co. ("Waldkircher's" Oscillating Force Pump), Sandusky, O.

McDonald, A. Y. & Morrison Mfg. Co., Dubuque, Ia.

McGowan, Jno. H. Co., Cincinnati, O.

McNab & Harlin Mfg. Co., 56 John, New York

Mast, Foos & Co. ("Buckeye"), Springfield, O.

Mietz & Weiss, 134 Mott, New York

Moline Pump Co., Moline, Ill.

Murdock Mfg. & Supply Co., Cincinnati, O.

Myers, F. E. & Bro., Ashland, O.

Nason Mfg. Co., 71 Beekman, New York

Peters Pump Co., Kewanee, Ill.

Porter, J. E. Co., Ottawa, Ill.

Powell, Wm. Co., Cincinnati, O.

Red Cross Mfg. Co., Bluffton, Ind.

Red Jacket Mfg. Co., Davenport, Ia.

Red Jacket Mfg. Co., Springfield, O.

Rumsey & Co. (Ltd.), (For All Purposes), Seneca Falls, N. Y.

Thomas Mfg. Co., Springfield, O.

Trahern Pump Co., Rockford, Ill.

Union Mfg. Co., New Britain, Conn.

Wilder, Sidney & Co., Holliston, Mass.

*Pumps (Fuel Oil)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)

*Pumps (Garage)

GARDNER GOVERNOR CO. ("Gardner"), Quincy, Ill. (See adv. index, end of book)

Pumps (Gas Compressing)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

National Foundry & Machine Co., Louisville, Ky.

Self-starters, float-switches and pressure regulators for motor-driven pumps.
THE CUTLER-HAMMER MFG. CO., Milwaukee.



Davidson, M. T., 43 Keap, Brooklyn, N. Y.

Dean Bros. Steam Pump Works, Indianapolis, Ind.

DEANE STEAM PUMP CO., 115 B'way, New York; Works: Holyoke, Mass. (See adv. index & branch offices, end of book)

DEMING CO., Salem, O. (See adv. index, end of book)

D'Oiler Engineering Co., 121 S 11th, Phila., Pa.

Douglas, W. & B., Middletown, Conn., & 83 John, New York

Dow, Geo. E. Pumping Engine Co., San Francisco, Cal.

Dubois Iron Works, Dubois, Pa.

Economic Power & Pump Co., 84 Cortlandt, New York

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)

Goodman Mfg. Co., 39th & Stewart av, Chicago, Ill.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Harris Pump & Supply Co., Pittsburg, Pa.

Holland Electric Pump & Engineering Co., 51 Cliff, New York

Jeansville Iron Works Co., Hazleton, Pa.

JEFFREY MFG. CO., Columbus, O.; (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS (Mine Sinking), 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Luitwieler Pumping Engine Co. (Non-Pulsating Balanced), Rochester, N. Y.

McGowan, John H. Co., Cincinnati, O.

MORRIS MACHINE WORKS (Centrifugal, etc.), Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

Myers, F. E. & Bro., Ashland, O.

New York Air Brake Co., 165 B'way, New York

OTIS ELEVATOR CO., 17 Battery Pl. New York. (See adv. index & branch offices, end of book)

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Prescott, Fred. M. Steam Pump Co., West Allis, Wis.

Quimby, Wm. E. (Inc.), (Direct Connected), 3 W 29th, New York

Roots, P. H. & F. M. Co., Connersville, Ind.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Scranton Steam Pump Co., Scranton, Pa.

Taber Pump Co. (Portable), Buffalo, N. Y.

THOMAS & SMITH (Inc.), ("Economy"), 17 S Carpenter, Chicago, Ill., & 288 Hudson, New York. (See adv. index, end of book)

Van Wie Pump Co., Syracuse, N. Y.

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Wilson-Snyder Mfg. Co., Pittsburg, Pa.

Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Yeoman's Bros., 98 Jackson boul, Chicago, Ill.

Pumps (Gas Engine Starting)

Caldwell, E. R. & Co., Bradford, Pa.
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)

Pumps (Gas Fitters' Proving)

GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)
NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
 Schaeffer & Budenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

*Pumps (Gas Main, Force)

BERNZ, OTTO, S. 13th & S. Orange av., Newark, N. J. (See adv. index, end of book)

Pumps (Gasoline)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
KEWANEE WATER SUPPLY CO. (For Pumping Water Supply), Kewanee, Ill. (See adv. index, end of book)
 Louisville Varnish Co. (Tank), Louisville, Ky.

Pumps (Gauge Testing)

(See Gauge Testing Apparatus)

Pumps (Geared, Oil or Water)

(For Milling, Gear & Chucking Machines, Etc.)
 Brown & Sharpe Mfg. Co. (For Oil Supply, to Cutting Tools on Lathes, Screw Machines, etc.), Providence, R. I.
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Pumps (Ham Preserving)

Silver Mfg. Co., Salem, O.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

*Pumps (Hand)

KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)

Pumps (Hand, Fire)

Chicago Fire Apparatus Co. ("Chicago Fire Department Style"), 89 Lake, Chicago, Ill.

Pumps (Hot Air)

(See Engines, Hot Air Pumping)

Pumps (High Pressure, Oil)

Sturgess Engineering Dept. of Ludlow Valve Mfg. Co., Troy, N. Y.

Pumps (Hydraulic)

Advance Pump & Compressor Co., Battle Creek, Mich.
 American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Bethlehem Steel Co., South Bethlehem, Pa.
 Bishop & Babcock Co. (Vacuum), 49th & Hamilton av, Cleveland, O.
BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
 Blake Pump & Condenser Co., Fitchburg, Mass.
 Blakeslee Mfg. Co., Du Quoin, Ill.
 Boyts, Porter & Co., Connellsville, Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Buffalo Steam Pump Co., Buffalo, N. Y.

Burroughs, Chas. Co., Newark, N. J.
 Bushnell, G. H. Press Co., Thompsonville, Conn.
 Canton-Hughes Pump Co., Canton & Cleveland, O.

Columbus Steam Pump Works, Columbus, O.
 Davidson, M. T., 43 Keap, Brooklyn, N. Y.
 Davis-Johnson Mfg. Co., 345 S Canal, Chicago, Ill.

Dayton Hydraulic Machinery Co., Dayton, O.
 Dean Bros. Steam Pump Works, Indianapolis, Ind.

DEMING CO. (Pressure), Salem, O. (See adv. index, end of book)
 Douglass, W. & B., Middletown, Conn.; 83 John, New York

DUDGEON, RICHARD, 24 Columbia, New York. (See adv. index, end of book)
ELMES, CHAS. F. ENGINEERING Works, c. Sangamon & Fulton, Chicago, Ill. (See adv. index, end of book)

Epping Carpenter Co., Pittsburg, Pa.
FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Farrel Foundry & Machine Co., Ansonia, Conn.
 French Oil Mill Machinery Co., Piqua, O.

GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Hall Steam Pump Co., Pittsburg, Pa.
 Holyoke Machine Co. ("Hercules"), Holyoke, Mass.

Hydraulic Press Mfg. Co. (Hand & Power), Mount Gilead, O.
 Kilby Mfg. Co., Cleveland, O.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Lake City Engineering Co., Erie, Pa.
 Logemann Bros. Co. ("Logemann" High Pressure, Triples Compound), Milwaukee, Wis.

McGowan, John H., Co., Cincinnati, O.
 Maslin, John & Son, 167 1st, Jersey City, N. J.

Mesta Machine Co., Lewis bldg, Pittsburg, Pa.
MORGAN ENGINEERING CO., Alliance, O. (See adv. index, end of book)

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

Myers, F. E. & Bro., Ashland, O.
 National Foundry & Machine Co., Louisville, Ky.

NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
 National Steam Pump Co., Upper Sandusky, O.

Olsen, Tinius & Co., 500 N 12th, Phila., Pa.
 Perrin, Wm. R., & Co., 46th & Loomis, Chicago, Ill.

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A V Ry., Pittsburgh, Pa. (See adv. index, end of book)

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
 Riehle Bros. Testing Machine Co., 1424 N 9th, Phila., Pa.

Robertson, Jno. & Co., 129 Water, Brooklyn, N. Y.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Southwark Foundry & Machine Co., Washington av & 5th, Phila., Pa.

Tranter, Davison Mfg. Co. ("McFuley"), 105 Water, Pittsburg, Pa.
 Union Steam Pump Co., Battle Creek, Mich.

WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)
Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Watson Machine Co., Paterson, N. J.
WATSON-STILLMAN CO., 30 Church, New York. (See adv. index, end of book)

Weir & Craig Mfg. Co., 2439 Wallace, Chicago, Ill.

Wells, F. C. (Est. of), 116 S Clinton, Chicago, Ill.

Westbrook's Elevator Co., Danville, Va.
 Wheeler, C. H. Mfg. Co., Lehigh & N 16th, Phila., Pa.

Wilson-Snyder Mfg. Co., Pittsburg, Pa.
 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

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ELLCOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)
 Erie Pump & Engine Co. (& Engine), Erie, Pa.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Kingsford Foundry & Machine Works (Belt or Engine Driven, etc.), Oswego, N. Y.
 Lake City Engineering Co., Erie, Pa.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

Van Wie Pump Co., Syracuse, N. Y.
WETHERILL BROS. MACHINE CO., Chester, Pa. (See adv. index, end of book)

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

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WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)

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DUDGEON, RICHARD, 24 Columbia, New York. (See adv. index, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Union Steam Pump Co., Battle Creek, Mich.

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DUDGEON, RICHARD, 24 Columbia, New York. (See adv. index, end of book)

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 Barnes Mfg. Co., Mansfield, O.

Blakeslee Mfg. Co., Du Quoin, Ill.
 Buffalo Steam Pump Co., Buffalo, N. Y.

Cameron, A. S. Steam Pump Works, ft 23d, New York
 Challenge Wind Mill & Feed Mill Co., Batavia, Ill.

Charter Gas Engine Co., Sterling, Ill.
 Collins-Gunther Co., San Antonio, Tex.

DEMING CO., Salem, O. (See adv. index, end of book)
 Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.

Hendricks' Commercial Register

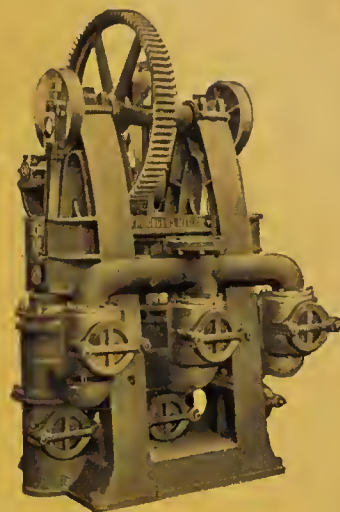
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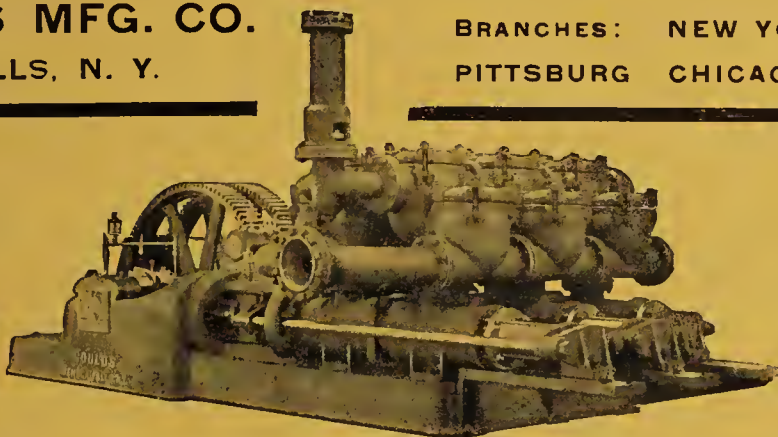
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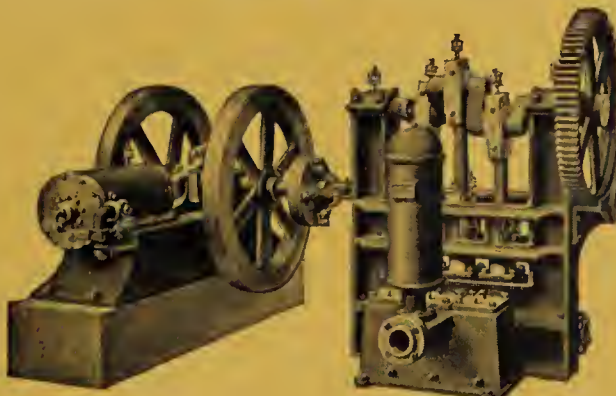


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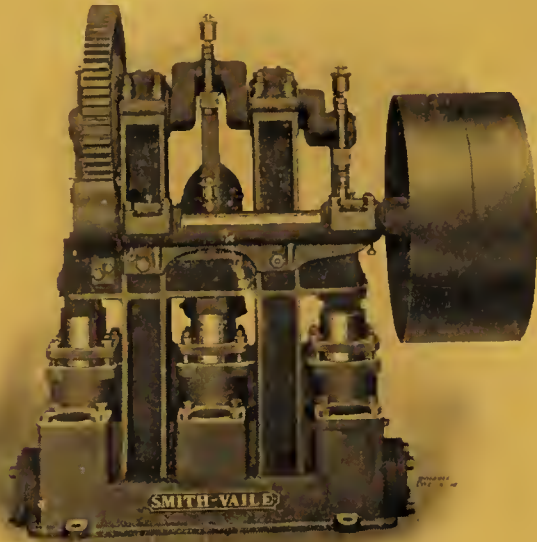
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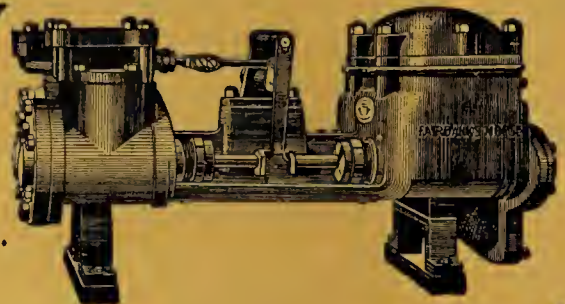
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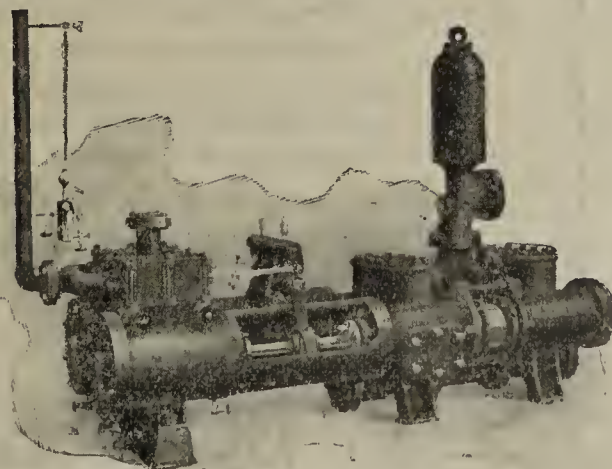
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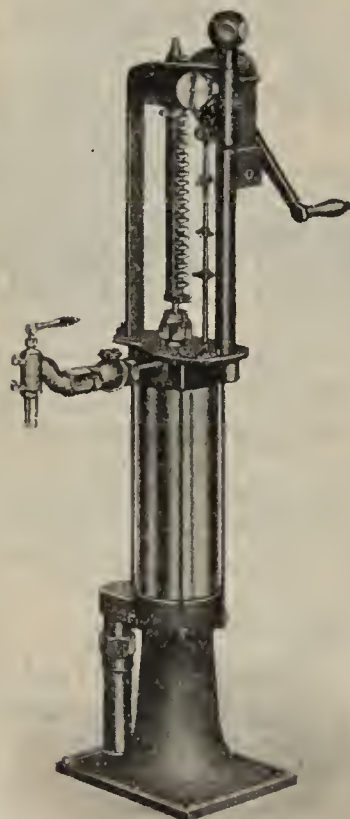
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 Roots, P. H. & F. M. Co., Connersville, Ind.
 United Pump & Power Co., Old Colony bldg., Chicago, Ill.

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 Columbus Steam Pump Works, Columbus, O.
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 Lucas, C. O., & Co., Greenville, O.
 Lucas Pump Co. (For Hot or Cold Water), Dayton, Ohio

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 Mesta Machine Co., Lewis bldg., Pittsburgh, Pa.

Myers, F. E. & Bro., Ashland, O.

National Steam Pump Co., Upper Sandusky, O.
 New Era Gas Engine Co., Dayton, O.
 Peters Pump Co., Kewanee, Ill.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
 Quimby, Wm. E. (Inc.), 3 W 29th, New York

Roots, P. H. & F. M. Co., Connersville, Ind.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Scranton Steam Pump Co., Scranton, Pa.
 Sneedley Steam Pump Co., Dubuque, Ia.

Stewart Heater Co., Buffalo, N. Y.
 Walker Mfg. Co. (Up to 1,000,000 Gallons Daily), Fenton, Mich.

Warren Steam Pump Co., Warren, Mass.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Weinman Machine Works (Geared, Electric, Belt Driven, etc.), Columbus, Ohio
 Wetmore Iron Works, Lowville, N. Y.

*Pumps (Private Water Works)

DEMING CO., Salem, O. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Pumps (Propeller)

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

Wood, P. K. ("Wood," Horizontal, for Tailings, Cyanide Solution, Placer Mining & Dredging), Los Angeles, Cal.

*Pumps (Pulp Grinder)

DEMING CO., Salem, O. (See adv. index, end of book)

Pumps (Quarry)

Advance Pump & Compressor Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Cameron, A. S. Steam Pump Wks., ft. E. 23d, New York

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

Myers, F. E. & Bro., Ashland, O.

Pumps (Railroad Force)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Myers, F. E. & Bro., Ashland, O.

Prescott, Fred M., Steam Pump Co., West Allis, Wis.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Pumps (Reciprocating)

Buffalo Steam Pump Co., Buffalo, N. Y.

Pumps (Reclamation)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
ELLICOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

United Iron Works, Oakland, Cal.
 Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Pumps (Rotary)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Bagley & Sewall Co. (And Reciprocating), Watertown, N. Y.

Barnes Mfg. Co., Mansfield, O.
 Reach-Russ Co., 59 Greene, Brooklyn, N. Y.
 Blackmer Pump, Power & Mfg. Co., Petoskey, Mich.

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Brewster Engineering Co. ("Brewster" Water), 50 Church, New York
 Connersville Blower Co. (Force), Connersville, Ind.

Crowell, Gilmer, 296 Taaffe pl., Brooklyn, N. Y.
 Davis-Johnson Mfg. Co., 345 S Canal, Chicago, Ill.

DEMING CO., Salem, O. (See adv. index, end of book)
 Douglas, W. & B., Middletown, Conn., & 83 John, New York

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
 Foster Pump Works (Also Rotary Hand), 224 Plymouth, Brooklyn, N. Y.

GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
 Hartford Machine Screw Co., Hartford, Conn.

Hersey Mfg. Co. (Soap), 314 W 2d, Boston, Mass.

Holyoke Machine Co., Holyoke & Worcester, Mass.
 Humphrey Machine Co., Keene, N. H.

Hunt, Rodney Machine Co. (Fire), Orange, Mass.
 Lipman Mfg. Co., Beloit, Wis.

Lobe Pump & Machinery Co., Buffalo, N. Y.
 Perrin, Wm. R., & Co., 46th & Loomis, Chicago, Ill.

Rock River Machine Co., Janesville, Ohio
 Roots, P. H. & F. M. Co. (Positive Pressure), Connersville, Ind.

Ross, Chas. & Son Co. ("Ross" for White Lead & Putty), 148 Classon av., Brooklyn, N. Y.

Rumsey & Co. (Ltd.) (Force, Fire & Oil Service), Seneca Falls, N. Y.
 Southwark Foundry & Machine Co., Phila., Pa.
 Taber Pump Co. (Beer Circulating & Racking, etc.), Buffalo, N. Y.

Turners Falls Machine Co., Turners Falls, Mass.

Pumps (Rotary Oil)

(See Pumps, Oil Rotary)

*Pumps (Rotative Dry Vacuum)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

*Pumps (Rubber Cement)

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Pumps (Sand Feed Stone-Sawing)

Frenier, J. H. & Son, Rutland, Vt.

Pumps (Sand & Dredging)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Boggs & Clarke (Hydraulic, etc.), Syracuse, New York

Buffalo Steam Pump Co., Buffalo, N. Y.
ELLICOTT MACHINE CO., Bush & Severn, Baltimore, Md. (See adv. index, end of book)

Erie Pump & Engine Co., Erie, Pa.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

Jackson, Byron Machine Works, 411 Market, San Francisco, Cal.

Lake City Engineering Co., Erie, Pa.
 Lawrence Machine Co., Lawrence, Mass.

MORRIS MACHINE WORKS, Baldwinsville, N. Y. (See adv. index & branch offices, end of book)

PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
Potts, C. & A. Co., Indianapolis, Ind.
United Iron Works, Oakland, Cal.
Urie-Snyder Iron Works Co., Kansas City, Mo.
Van Wle Pump Co., Syracuse, N. Y.
WETHERILL BROS. MACHINE CO., Chester, Pa. (See adv. index, end of book)
Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

*Pumps (Screw)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

*Pumps (Self-Measuring)

BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Pumps (Service & Drip)

Phoenix Meter Co., Camden, N. J.

*Pumps (Sewerage)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
DEMING CO., Salem, O. (See adv. index, end of book)
KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index & branch offices, end of book)
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)
WETHERILL BROS. MACHINE CO., Chester, Pa. (See adv. index, end of book)

Pumps (Ship & Deck)

Barnes Mfg. Co., Mansfield, O.
Bishop, Wm. Sons (Brass Deck Fire), 205 South, New York
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
DEMING CO., Salem, O. (See adv. index, end of book)
Edson Mfg. Co., 257 Atlantic av., Boston, Mass.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Humphreys Mfg. Co., Mansfield, O.
Marine Mfg. & Supply Co., 158 South, New York
Myers, F. E. & Bro., Ashland, O.
O'Crowley, J. J., 45 Hudson, Jersey City, N. J.
Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
Sands, Alfred B. & Son, 20 Vesey, New York
Schaeffer & Budenberg Mfg. Co. (Portable), 963 Kent av., Brooklyn, N. Y.
Van Duzen, E. W. Co., Cincinnati, O.

Pumps (Sinking)

Allentown Rolling Mills (Electric, Vertical, Triplex, etc.), Allentown, Pa.
American Steam Pump Co., Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
Boys, Porter & Co., Connellsville, Pa.
Buffalo Steam Pump Co., Buffalo, N. Y.
Cameron, A. S. Steam Pump Works, ft. of E. 23d, New York
Canton-Hughes Pump Co., Canton & Cleveland, O.
Clot & Christ Machine Co., San Francisco, Cal.
FAIRBANKS, MORSE & CO. (Electric & Steam), Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Hall Steam Pump Co., Pittsburg, Pa.
Hendy, Joshua Machine Works, 38 Fremont, San Francisco, Cal.
Jeanesville Iron Works Co. (Steam or Electric), Hazleton, Pa.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
Mine & Smelter Supply Co., Denver, Col.
National Steam Pump Co., Upper Sandusky, O.
PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
Prescott, Fred M. Steam Pump Co., West Allis, Wis.
Quimby, Wm. E. (Inc.), 3 W 29th, New York
Union Iron Works Co., San Francisco, Cal.
Union Steam Pump Co., Battle Creek, Mich.

*Pumps (Size)

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)

*Pumps (Slush)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
WAGENER STEAM PUMP WORKS, Canton, O. (See adv. index, end of book)

Pumps (Spray)

BALTIMORE COOPERAGE CO., THE, c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
Barnes Mfg. Co., Mansfield, O.
Bean Spray Pump Co. (Bean Spray), San Jose, Cal.
BERGER MFG. CO., THE (House & Farm), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Cedar Rapids Pump Co., Cedar Rapids, Iowa
Childs, Chas. H. & Co. (Electric), Utica, N. Y.
Church Mfg. Co. (Pneumatic), Adrian, Mich.
Dayton Supply Co. ("Nixon-Climax," for Lawn & Field), Dayton, O.
De Clercy Bros., Cazenovia, N. Y.
DEMING CO., Salem, O. (See adv. index, end of book)
Doughton, H. W., Moorestown, N. J.
Douglas, W. & B., Middletown, Conn., & 83 John, New York
Eureka Mower Co. (Atomizers), Utica, N. Y.
Everett, J. A. (Sprayers & Powder Distributors), Indianapolis, Ind.
Field Force Pump Co. ("Empire Klng, Garfield, Knapsack, Red Jacket & Aroostock," Potato Sprayer, "Orchard Monarch"), Elmira, N. Y.
Friend Mfg. Co., Gasport, N. Y.
Gaylord, J. F., Catskill, N. Y.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Hardee Mfg. Co., Hudson, Mich.
Hess, Snyder Co., Massillon, O.
Holl Mfg. Co., 333 Main, Buffalo, N. Y.
Humphreys Mfg. Co., Mansfield, O.
Hurst, H. L. Mfg. Co. (Combination Potato & Orchard, Horse & Wheelbarrow Power), Canton, O.
Kohler, F. E., & Co. ("Johnson"), Canton, O.
Lenox Chemical Co. (Lenox Spraying Apparatus), Pittsfield, Mass.
McDonald, A. Y., & Morrison Mfg. Co., Dubuque, Iowa
Mast, Foos & Co. ("Buckeye"), Springfield, O.
Morrill & Morley ("Eclipse & Eureka"), Benton Harbor, Mich.
Myers, F. E., & Bro., Ashland, O.
Pepper, Thos. (Sprayers), Hightstown, N. J.
Porter, J. E. Co., Ottawa, Ill.
Potato Implement Co. (Knapsack Sprayers, Atomizers & Powder Guns), Traverse City, Mich.
Red Cross Mfg. Co., Bluffton, Ind.
Red Jacket Mfg. Co., Davenport, Ia.
Ripley Hardware Co. (Sprayers), Grafton, Ill.
Rome Bicycle Mfg. Co., Rome, N. Y.
Rumsey & Co. (Ltd.) (Force & Knapsack), Seneca Falls, N. Y.
Sandwich Mfg. Co., Sandwich, Ill.
Shangle, Jno. R., Hightstown, N. J.
Smith, D. B. & Co., Utica, N. Y.
Smith, F. B. Mfg. Co., Buffalo, N. Y.
Stahl, Wm. Sprayer Co., Quincy, Ill.
Standard Stamping Co. ("Standard"), Marysville, O.
Stevens & Co., 99 Chambers, N. Y.

Stewart, A. T. & Co. (Mist-Sprayers), Car-Trahern Pump Co., Rockford, Ill. negie, Pa.
Union Steam Pump Co. (Fruit Spraying), Battle Creek, Mich.
Utica Sprayer Co., Utica, N. Y.

Pumps (Steam)

Advance Pump & Compressor Co., Battle Creek, Mich.
Aetna Foundry & Machine Co., Springfield, Ill.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Steam Pump Co. ("Marsh"), Battle Creek, Mich.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
Blake Pump & Condenser Co., Fitchburg, Mass.
Blakeslee Mfg. Co., Du Quoin, Ill.
Boys, Porter & Co., Connellsville, Pa.
Buffalo Steam Pump Co., Buffalo, N. Y.
Burton & Johnson, Cleveland, O.
Caldwell, E. R. & Co., Bradford, Pa.
Camden Iron Works, Camden, N. J.
Cameron, A. S. Steam Pump Works, ft E 23d, New York
Canton-Hughes Pump Co., Canton & Cleveland, O.
CARLIN'S, THOS. SONS CO., 1610 River av., North Side, Pittsburg, Pa. (See adv. index, end of book)
Carpenter, Thos. D., 93 Pearl, Brooklyn, N. Y.
Carthage Fdry. & Machine Co., Carthage, Mo.
Codd, E. J. Co. (Duplex), 700-708 S. Carolina, Baltimore, Md.
Columbus Steam Pump Works, Columbus, O.
Connorsville Machine & Car Co. ("Lafayette"), Connorsville, Pa.
Cook, A. D., Lawrenceburg, Ind.
Cook Well Co., St. Louis, Mo.
Clot & Christ Machine Co., San Francisco, Cal.
Crawford & McCrimmon Co., Brazil, Ind.
Crown Iron Works Co., Minneapolis, Minn.
D'Auria Pumping Engine Co., Drexel bldg, Phila., Pa.
Davidson, M. T., 43 Keap, Brooklyn, N. Y.
Dean Bros.' Steam Pump Works, Indianapolis, Ind.
DEANE STEAM PUMP CO. (High & Low Pressure), 115 B'way, New York; Works: Holyoke, Mass. (See adv. index & branch offices, end of book)
Douglas, W. & B., 83 John, New York, & Middletown, Conn.
Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.
Economic Power & Pump Co., 84 Cortlandt, New York
Edwards, Jos. & Co., 412 Water, New York
Emerson Steam Pump Co. (Steam Vacuum), Alexandria, Va.
Epping-Carpenter Co., Pittsburg, Pa.
Evans, C. H. & Co. ("Thomson & Evans"), San Francisco, Cal.
FAIRBANKS, MORSE & CO. (Duplex), Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Fenton Iron Works, Fenton, Mich.
Filer & Stowell Co., Milwaukee, Wis.
Findlay Foundry & Machine Co., Findlay, O.
FOSTER PUMP WORKS ("Hard-dick"), 224 Plymouth, Brooklyn, N. Y.
Frost Mfg. Co., Galesburg, Ill.
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
Garratt, W. T. & Co., San Francisco, Cal.
GOULDS MFG. CO., Seneca Falls, N. Y. (See adv. index & branch offices, end of book)
Goyne Steam Pump Co. (Goyne Bros., Props.), Ashland, Pa.
Grant Iron Works, Mahanoy City, Pa.
Great Lakes Engineering Works, Detroit, Mich.
Guild & Garrison, Kent av. & S. 10th, Brooklyn, N. Y.
Hall Steam Pump Co., Pittsburg, Pa.
Heisler Mfg. Co., St. Marys, O.
Hendy, Joshua Machine Works, 38 Fremont, San Francisco, Cal.
Hill Machine Co., Anderson, Ind.
Hubbard's, Norman Sons ("Niagara"), 265 Water, Brooklyn, N. Y.
International Steam Pump Co., 115 B'way, New York
Jackson, Byron, Machine Works, 411 Market, San Francisco, Cal.
Jeanesville Iron Works, Hazleton, Pa.
Keystone Driller Co., Beaver Falls, Pa.

Kingsford Fdry. & Mach. Wks., Oswego, N. Y.
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)

Kruger & Blind Co., 511 Master, Phila., Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Leyner, J. Geo. Engineering Works Co., Lit-
 tleton, Colo.

Luitwieler Pumping Engine Co., Rochester,
 N. Y.

McCOY, HENRY J. CO., 65 & 67 Dey, New
 York. (See adv. index, end of book)

McGowan, John H. Co., Cincinnati, O.
 Manistee Iron Works Co. (Marine), Manistee,
 Mich.

Marion Machine & Tool Co. (High Duty),
 Marion, Ind.

MARYLAND EQUIPMENT & SUPPLY CO.,
 Calvert & Fayette, Baltimore, Md. (See
 adv. index, end of book)

Maslin, John & Son, 167 1st, Jersey City, N. J.
 Mesta Machine Co., Lewis bldg, Pittsburg, Pa.

MINNEAPOLIS STEEL & MACHINERY
 Co., Minneapolis, Minn. (See adv. index
 & branch offices, end of book)

Moore, Chas. C. & Co., San Francisco, Cal.

MORRIS MACHINE WORKS, Baldwins-
 ville, N. Y. (See adv. index & branch of-
 fices, end of book)

Mullen, Jno. & Son ("Allison" Cataract),
 Shamokin, Pa.

National Foundry & Machine Co., Louisville,
 Ky.

National Steam Pump Co. (High Duty), Upper
 Sandusky, O.

Nordberg Mfg. Co., Milwaukee, Wis.

Northwest Thresher Co., Stillwater, Minn.

Nye Steam Pump & Machinery Co., 70 W
 Wash'n, Chicago, Ill.

Ohio Steam Pump Co., Canton, O.

Pattin Bros. Co., Marietta, O.

PITTSBURGH GAGE & SUPPLY CO.,
 30th & Liberty av, Pittsburgh, Pa. (See
 adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & CON-
 struction Co., 26th & A. V. Ry., Pitts-
 burgh, Pa. (See adv. index, end of book)

PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)

Prescott, F. M., Steam Pump Co., West
 Allis, Wis.

Pulsometer Steam Pump Co., Whitehall bldg,
 New York

Queen City Engineering Co., Buffalo, N. Y.

Reliance Machine & Tool Works ("Hooker"),
 3333 Franklin av, St. Louis, Mo.

Roberts, George J. & Co., Dayton, O.

Rodgers Iron Mfg. Co., Muskegon, Mich.

Roots, P. H. & F. M. Co., Connersville, Ind.

Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Scranton Steam Pump Co., Scranton, Pa.

Smealle Bros., Amsterdam, N. Y.

Smedley Steam Pump Co., Dubuque, Ia.

SNOW STEAM PUMP WORKS (High
 & Low Pressure), 115 B'way, New York;
 Works: Buffalo, N. Y. (See adv. index &
 branch offices, end of book)

Southern Car Mfg. & Supply Co., Chatta-
 nooga, Tenn.

Southwark Foundry & Machine Co., Phila., Pa.

Springfield Elevator & Pump Co., Springfield,
 Mass.

Sydnor Pump & Well Co., Richmond, Va.

Taber Pump Co., 90 Ellicott, Buffalo, N. Y.

Thompson Mfg. Co., Lancaster, N. H.

Turners Falls Machine Co., Turners Falls,
 Mass.

Union Iron Works Co., San Francisco, Cal.

Union Steam Pump Co. ("Moore," "Burn-
 ham"), Battle Creek, Mich.

Vanduzen, E. W. Co., 428 E 2d, Cincinnati,
 O.

Van Wie Pump Co., Syracuse, N. Y.

WAGENER STEAM PUMP WORKS, Can-
 ton, O. (See adv. index, end of book)

Walker Mfg. Co., Fenton, Mich.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Warren Steam Pump Co., Warren, Mass.

Weinman Machine Works, Columbus, Ohio.

Weir & Craig Mfg. Co., 2439 Wallace, Chi-
 cago, Ill.

Wells, F. C. (Est. of), 116 S Clinton, Chicago,
 Ill.

Wetmore Iron Works, Lowville, N. Y.

Wheeler, C. H., Mfg. Co., Lehigh & N. 18th,
 Phila., Pa.

Wheeler Condenser & Engineering Co., Car-
 taret, N. J.

Wilkinson Mfg. Co., Bridgeport, Pa.

Willamette Iron & Steel Works, Portland, Ore.

Wilson-Snyder Mfg. Co., Pittsburg, Pa.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

WORTHINGTON, HENRY R. (High
 & Low Pressure), 115 B'way, New York;
 (See adv. index & branch offices, end of book)

York Mfg. Co. (Ltd.), York, Pa.

Pumps (Steam Turbine)

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)

Dayton Hydraulic Machinery Co., Dayton, O.

De Laval Steam Turbine Co., Trenton, N. J.

Prescott, Fred. M., Steam Pump Co., West
 Allis, Wis.

*Pumps (Stuff)

(See also Pumps, Fan & Stuff)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)

DEMING CO., Salem, O. (See adv. index,
 end of book)

KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)

MORRIS MACHINE WORKS, Baldwins-
 ville, N. Y. (See adv. index & branch of-
 fices, end of book)

*Pumps (Suction Box)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)

KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)

Pumps (Sugar House)

Advance Pump & Compressor Co., Battle
 Creek, Mich.

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of
 book)

Cameron, A. S. Steam Pump Works, ft of E
 23d, New York

Canton-Hughes Pump Co., Canton & Cleve-
 land, O.

Davidson, M. T., 43 Keap, Brooklyn, N. Y.

Dean Bros.' Steam Pump Works, Indianapolis,
 Ind.

Douglass, W. & B., Middletown, Conn., & 85
 John, New York

Epping-Carpenter Co., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Wabash av.
 & Eldredge pl, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)

GARDNER GOVERNOR CO., Quincy, Ill.
 (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)

International Steam Pump Co., 115 B'way,
 New York

LAIDLAW-DUNN-GORDON CO., 115
 B'way, New York; Works: Cincinnati, O.
 (See adv. index & branch offices, end of book)

MORRIS MACHINE WORKS, Baldwins-
 ville, N. Y. (See adv. index & branch
 offices, end of book)

National Fdy. & Machine Co., Louisville, Ky.

Pioneer Iron Works, 149 Pioneer, Brooklyn,
 N. Y.

PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)

Quimby, Wm. E. (Inc.), 3 W 29th, New York

Roots, P. H. & F. M. Co., Connersville, Ind.

Squier, Geo. L. Mfg. Co., Buffalo, N. Y.

Union Steam Pump Co., Battle Creek, Mich.

Wells, F. C. (Est. of), 116 S Clinton, Chica-
 go, Ill.

*Pumps (Sulphur Fume)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)

KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)

Pumps (Syphon)

Barnes Mfg. Co., Mansfield, O.

Challenge Co., Batavia, Ill.

Chaplin-Fulton Mfg. Co., Pittsburg, Pa.

DEMING CO., Salem, O. (See adv. index,
 end of book)

Eynon-Evans Mfg. Co., 1519 Clearfield, Phila.,
 Pa.

GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)

Humphreys Mfg. Co., Mansfield, O.

Leng's, Jno. S. Son & Co. ("Lansdell's"), 33
 Murray, New York

Myers, F. E., & Bro., Ashland, O.

Schutte & Koerting Co., 1251 N 12th, Phila.,
 Pa.

Wilson & McDaniel Co. ("W. & McD."), 146
 N 7th, Phila., Pa.

WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of book)

*Pumps (Tail)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)

KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)

MORRIS MACHINE WORKS, Baldwins-
 ville, N. Y. (See adv. index & branch
 offices, end of book)

Pumps (Tank)

Advance Pump & Compressor Co., Battle
 Creek, Mich.

American Steam Pump Co., Battle Creek, Mich.

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end
 of book)

Barnes Mfg. Co., Mansfield, O.

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)

Blake Pump & Condenser Co., Fitchburg,
 Mass.

BOWSER, S. F. & CO. (Inc.), Fort Wayne,
 Ind. (See adv. index & branch offices,
 end of book)

Boys, Porter & Co., Connellsville, Pa.

Buffalo Pitts. Co. (Low Down), Buffalo, N. Y.

Bushnell Pump Co., Bushnell, Ill.

Cameron, A. S. Steam Pump Works, ft E 23d,
 New York

Case, J. I. Threshing Machine Co., Racine,
 Wis.

Cedar Rapids Pump Co., Cedar Rapids, Iowa

Challenge Wind Mill & Feed Mill Co., Batavia,
 Ill.

Clot & Christ Machine Co., San Francisco, Cal.

DEANE STEAM PUMP CO., 115
 B'way, New York; Works: Holyoke, Mass.
 (See adv. index & branch offices, end of book)

DEMING CO., Salem, O. (See adv. index,
 end of book)

Epping-Carpenter Co., Pittsburg, Pa.

FAIRBANKS, MORSE & CO., Wabash av.
 & Eldredge pl, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)

Flint & Walling Mfg. Co., Kendallville, Ind.

Foster Pump Works, 224 Plymouth, Brooklyn,
 N. Y.

GARDNER GOVERNOR CO., Quincy, Ill.
 (See adv. index, end of book)

GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)

Hayes Pump & Planter Co., Galva, Ill.

Humphreys Mfg. Co., Mansfield, O.

KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)

Love Mfg. Co., Rockford, Ind.

Lucas, C. O. & Co., Greenville, O.

Luitwieler Pumping Engine Co. ("Non-Pulsat-
 ing"), Rochester, N. Y.

McDonald, A. Y. & Morrison Mfg. Co., Du-
 buque, Iowa

McGowan, Jno. H. Co., Cincinnati, O.

Manistee Iron Works Co., Manistee, Mich.

Marion Machine & Tool Co. ("Low Duty"),
 Marion, Ind.

Mast, Foos & Co. ("Buckeye"), Springfield, O.

MORRIS MACHINE WORKS, Baldwins-
 ville, N. Y. (See adv. index & branch
 offices, end of book)

Myers, F. E. & Bro., Ashland, O.

National Foundry & Machine Co., Louisville,
 Ky.

National Steam Pump Co. (Low Duty), Upper
 Sandusky, O.

Nicholas & Shepard Co. (Low Down), Battle
 Creek, Mich.

Peters Pump Co., Kewanee, Ill.

Port Huron Mfg. Co., Port Huron, Mich.

Porter, J. E. Co., Ottawa, Ia.

Prescott, Fred M., Steam Pump Co., West
 Allis, Wis.

Quimby, Wm. E. (Inc.), 3 W 29th, New York

Racine Rice Machinery Co., Racine, Wis.

Red Cross Mfg. Co., Bluffton, Ind.

Red Jacket Mfg. Co., Davenport, Ia.
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Smealle Bros., Amsterdam, N. Y.
SNOW STEAM PUMP WORKS, 115
 B'way, New York; Works: Buffalo, N. Y.
 (See adv. index & branch offices, end of book)
 Stewart Heater Co., Buffalo, N. Y.
 Trahern Pump Co., Rockford, Ill.
 Union Steam Pump Co., Battle Creek, Mich.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
WAGENER STEAM PUMP WORKS, Can-
 ton, O. (See adv. index, end of book)
 Ward Pump Co., Rockford, Ill.
 Wolman Machine Works, Columbus, Ohio.
 Wells, F. C. (Est. of), 116 S Clinton, Chic-
 ago, Ill.
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill., & 111 Chambers, New York.
 (See adv. index, end of book)
WORTHINGTON, HENRY R., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)

*Pumps (Tannery)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge.
 Mass. (See adv. index & branch offices,
 end of book)
MORRIS MACHINE WORKS, Baldwin-
 ville, N. Y. (See adv. index & branch of-
 fices, end of book)

Pumps (Tar)

BOWSER, S. F. & CO. (Inc.), Fort Wayne,
 Ind. (See adv. index & branch offices, end
 of book)
 Cameron, A. S. Steam Pump Works, ft. E.
 23d, New York
FAIRBANKS, MORSE & CO., Wabash av.
 & Eldredge pl, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)

Pumps (Test)

Ashcroft Mfg. Co., 85 Liberty, New York
 Belfield, H. & Co., 433 N Broad, Phila., Pa.
BERNZ, OTTO, S. 13th & S. Orange av.,
 Newark, N. J. (See adv. index, end of
 book)
 Bockel, Wm. & Co. (Gas Fitters), 518 Vine,
 Phila., Pa.
 Cleveland Steam Gauge Co., 1619 Merwin,
 N. W., Cleveland, O.
CROSBY STEAM GAGE & VALVE CO.,
 95 Oliver, Boston, Mass., & 16 Dey, New
 York. (See adv. index & branch offices,
 end of book)
 Douglas, W. & B., Middletown, Conn., 85 John,
 New York
DUDGEON, RICHARD (Hydraulic), 24
 Columbia, New York. (See adv. index,
 end of book)
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Henderer's, A. L. Sons (Boiler Makers), Wil-
 mington, Del.
INDUSTRIAL INSTRUMENT CO., Foxboro,
 Mass. (See adv. index & branch offices,
 end of book)
NATIONAL GAUGE CO., 168 8th, Brook-
 lyn, N. Y. (See adv. index, end of book)
 Perkes, Chas. (Est. of), 627 Arch, Phila., Pa.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Schaeffer & Budenberg Mfg. Co., 963 Kent av.,
 Brooklyn, N. Y.
 Schutte & Koertling Co., 1251 N. 12th, Phila.,
 Pa.

Pumps (Tire)

(See Pumps, Air, Tire)

*Pumps (Track)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge.
 Mass. (See adv. index & branch offices,
 end of book)
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)

Pumps (Triplex)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge.
 Mass. (See adv. index & branch offices,
 end of book)

DEMING CO., Salem, O. (See adv. index,
 end of book)
DUDGEON, RICHARD (Hydraulic), 24
 Columbia, New York. (See adv. index, end
 of book)
FAIRBANKS, MORSE & CO. (Power),
 Wabash av & Eldredge pl, Chicago, Ill.
 (See adv. index & branch offices, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)
MINNEAPOLIS STEEL & MACHINERY
 Co., Minneapolis, Minn. (See adv. index
 & branch offices, end of book)
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Pumps (Turbine)

Alberger Condenser Co., 95 Liberty, New York
BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Dayton Hydraulic Machinery Co. (For Mine
 Drainage, etc.), Dayton, O.
 Erie Pump & Engine Co., Erie, Pa.
 Kingsford Foundry & Machine Works (Motor
 Driven), Oswego, N. Y.
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)
 Lea Equipment Co. ("Lea-Degen" High
 Duty), 90 West, New York
PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)
 Prescott, Fred M. Steam Pump Co., West
 Allis, Wis.
 Tacony Iron Co., Tacony, Phila., Pa.
WATSON-STILLMAN CO., 50 Church, New
 York. (See adv. index, end of book)
WORTHINGTON, HENRY R., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)

*Pumps (Underwriters')

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)
DEANE STEAM PUMP CO., 115
 B'way, New York; Works: Holyoke, Mass.
 (See adv. index & branch offices, end of book)
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)
MORRIS MACHINE WORKS, Baldwin-
 ville, N. Y. (See adv. index & branch of-
 fices, end of book)
PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)
SNOW STEAM PUMP WORKS, 115
 B'way, New York; Works: Buffalo, N. Y.
 (See adv. index & branch offices, end of book)
WORTHINGTON, HENRY R., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)

Pumps (Vacuum)

Advance Pump & Compressor Co., Battle
 Creek, Mich.
 Alberger Condenser Co., 95 Liberty, New York
 American Air Compressor Works, 26 Cortlandt,
 New York, & Van Brunt & Summitt, Brook-
 lyn, N. Y.
 American Steam Pump Co., Battle Creek,
 Mich.
 Beach-Russ Co., 59 Greene, Brooklyn, N. Y.
 Bellows Falls Machine Co. (For Sulphite Sys-
 tems), Bellows Falls, Vt.
BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)
 Blake Pump & Condenser Co., Fitchburg,
 Mass.
 Blakeslee Mfg. Co., Du' Quoin, Ill.
 Buffalo Foundry & Machine Co., Buffalo, N. Y.
 Buffalo Steam Pump Co. (Crank & Flywheel
 & Single Cylinder), Buffalo, N. Y.
 Bury Compressor Co., Erie, Pa.
 Cameron, A. S. Steam Pump Works, ft E
 23d, New York
 Canton-Hughes Pump Co., Canton & Cleve-
 land, O.
 Carpenter, Thos. D., 93 Pearl, Brooklyn, N. Y.
 Carron, A. M. & Co. (Small, Electric), 220
 Penn av, Pittsburg, Pa.

Chicago Pneumatic Tool Co., Fisher bldg, Chi-
 cago, Ill.
 Columbus Steam Pump Works, Columbus, O.
 Crowell, Gilmer ("Crowell"), 206 Taaffe pl,
 Brooklyn, N. Y.
 Davidson, M. T. (Air & Vacuum), 43 Keap,
 Brooklyn, N. Y.
 Dayton Hydraulic Machinery Co., Dayton, O.
 Dean Bros. Steam Pump Works, Indianapolis,
 Ind.
DEANE STEAM PUMP CO., 115
 B'way, New York; Works: Holyoke, Mass.
 (See adv. index & branch offices, end of book)
DEMING CO., Salem, O. (See adv. index,
 end of book)
 Devine, J. P. Co. ("Emil Passburg" system),
 Buffalo, N. Y.
 Economic Power & Pump Co., 84 Cortlandt,
 New York
 Emerson Steam Pump Co. (Steam), Alexan-
 dria, Va.

Epping-Carpenter Co., Pittsburg, Pa.
 Fahn & McJunkin ("Geryk" for Lamp Fac-
 tories), 201 E. 16th, New York
FAIRBANKS, MORSE & CO., Wabash av.
 & Eldredge pl, Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
 General Machine Works ("York," Rotary),
 York, Pa.
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Guild & Garrison, Kent av & S 10th, Brook-
 lyn, N. Y.
 Helsler Mfg. Co. (Wet & Dry), St. Marys, O.
 Hubbard's, Norman Sons ("Packard"), 265
 Water, Brooklyn, N. Y.
KNOWLES STEAM PUMP WORKS, 115
 B'way, New York. Works: East Cam-
 bridge. (See adv. index & branch offices,
 end of book)
 Marion Machine & Tool Co. (Low Duty), Mar-
 ion, Ind.
 Maslin, Jno. & Son, 163 1st, Jersey City, N. J.
 National Foundry & Machine Co., Louisville,
 Ky.
 New York Air Brake Co., 165 B'way, New
 York
PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)
 Rumsey & Co. (Ltd.) (Air Compressed Pump
 Combined), Seneca Falls, N. Y.
 Schutte & Koertling Co., 1251 N 12th, Phila.,
 Pa.
SNOW STEAM PUMP WORKS, 115
 B'way, New York; Works: Buffalo, N. Y.
 (See adv. index & branch offices, end of book)
 Union Steam Pump Co., Battle Creek, Mich.
WAGENER STEAM PUMP WORKS, Can-
 ton, O. (See adv. index, end of book)
 Weinman Machine Works, Columbus, Ohio.
 West St. Louis Machine & Tool Co., St. Louis,
 Mo.
 Wheeler Condenser & Engineering Co. (Wet &
 Dry), Cartaret, N. J.
WORTHINGTON, HENRY R., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)

*Pumps (Vacuum, Dry & Wet)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)
DEANE STEAM PUMP CO., 115
 B'way, New York; Works: Holyoke, Mass.
 (See adv. index & branch offices, end of book)
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)
SNOW STEAM PUMP WORKS, 115
 B'way, New York; Works: Buffalo, N. Y.
 (See adv. index & branch offices, end of book)
WORTHINGTON, HENRY R., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)

*Pumps (Volute)

WORTHINGTON, HENRY R., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)

Pumps (Water Works)

AMERICAN WELL WORKS, Aurora, Ill.
 (See adv. index & branch offices, end of book)
 Bethlehem Foundry & Machine Co. (50,000 to
 3,000,000 Gals. in 24 Hours), South Beth-
 lehem, Pa.
BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge.
 Mass. (See adv. index & branch offices,
 end of book)

Buffalo Steam Pump Co., Buffalo, N. Y.
 Canton-Hughes Pump Co., Canton, O.
DEANE STEAM PUMP CO., 115
 B'way, New York; Works: Holyoke, Mass.
 (See adv. index & branch offices, end of book)
DEMING CO., Salem, O. (See adv. index,
 end of book)
 Epping-Carpenter Co., Pittsburg, Pa.
FAIRBANKS, MORSE & CO., Wabash av.
 & Eldredge pl., Chicago, Ill. (See adv. in-
 dex & branch offices, end of book)
GARDNER GOVERNOR CO., Quincy, Ill.
 (See adv. index, end of book)
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Heisler Mfg. Co. (Horizontal), St. Marys, O.
KNOWLES STEAM PUMP WORKS, 115
 B'way, New York. (See adv. index &
 branch offices, end of book)
LAIDLAW-DUNN-GORDON CO., 115
 B'way, New York; Works: Cincinnati, O.
 (See adv. index & branch offices, end of book)
 Luitwieler Pumping Engine Co. (Non-Pulsating),
 Rochester, N. Y.
 McGowan, Jno. H. Co., Cincinnati, O.
MINNEAPOLIS STEEL & MACHINERY
 Co., Minneapolis, Minn. (See adv. index
 & branch offices, end of book)
MORRIS MACHINE WORKS, Baldwin-
 ville, N. Y. (See adv. index & branch
 offices, end of book)
 National Foundry & Machine Co., Louisville,
 Ky.
 National Steam Pump Co., Upper Sandusky, O.
 Nordberg Mfg. Co., Milwaukee, Wis.
PITTSBURGH GAGE & SUPPLY CO.,
 30th & Liberty av., Pittsburgh, Pa. (See
 adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY &
 Construction Co., 26th & A V Ry., Pitts-
 burgh, Pa. (See adv. index, end of book)
PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)
 Prescott, Fred M., Steam Pump Co., West
 Allis, Wis.
 Roots, P. H. & F. M. Co. (Rotary Pressure),
 Connersville, Ind.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
SNOW STEAM PUMP WORKS, 115
 B'way, New York; Works: Buffalo, N. Y.
 (See adv. index & branch offices, end of book)
WAGENER STEAM PUMP WORKS, Can-
 ton, O. (See adv. index, end of book)
 Wells, F. C. (Est. of), 116 S Clinton, Chicago,
 Ill.
 Wood, R. D., & Co., 400 Chestnut, Phila., Pa.

Pumps (Windmill)

(See also Windmills)

Aermotor Co., Campbell av., nr. 12th, Chi-
 cago, Ill.
 Althouse-Wheeler Co., Waupun, Wis.
 Baker Mfg. Co., Evansville, Wis.
 Barnes Mfg. Co., Mansfield, O.
 Butler Co., Butler, Ind.
 Challenge Co., Batavia, Ill.
 Chandler Pump Co., Cedar Rapids, Ia.
 Columbiana Pump Co., Columbiana, Ohio
 Cook-Well Co., 15 S 4th, St. Louis, Mo.
 Corcoran, A. J. (Inc.), 11 John, New York.
 Works, Jersey City, N. J.
DEMING CO., Salem, O. (See adv. index,
 end of book)
 Douglas, W. & B., Middletown, Conn., & 85
 John, New York
 Duplex Mfg. Co., South Superior, Wis.
 Elgin Wind Power & Pump Co., Elgin, Ill.
FAIRBANKS, MORSE & CO. ("Eclipse"
 Anti-Freezing), Wabash av & Eldredge pl.,
 Chicago, Ill. (See adv. index & branch of-
 fices, end of book)
 Field Force Pump Co. (Force), Elmira, N. Y.
 Fleming & Sons, Portland, Ind.
 Flint & Walling Mfg. Co., Kendallville, Ind.
 Genoa Mfg. Co., Genoa, O.
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Hayes Pump & Planter Co., Galva, Ill.
 Humphries Mfg. Co., Mansfield, O.
KEWANEE WATER SUPPLY CO., Kewa-
 nee, Ill. (See adv. index, end of book)
 Mast, Foos & Co., Springfield, O.
 Maud S. Windmill & Pump Co., Lansing,
 Mich.
 Moline Pump Co., Moline, Ill.
 Myers, F. E. & Bro., Ashland, O.
 Pacific Pump & Windmill Co., San Francisco,
 Peters Pump Co., Kewanee, Ill.
 Phelps & Bigelow Windmill Co., Kalamazoo,
 Red Cross Mfg. Co., Bluffton, Ind. Mich.
 Red Jacket Mfg. Co., Davenport, Ia.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Sharp Mfg. Co., Albert Lea, Minn.

Temple Pump Co., 15th Place, Chicago, Ill.
 U. S. Wind Engine & Pump Co., Batavia, N. Y.
 Woodmanse Mfg. Co., Freeport, Ill.
 Zimmerman Mfg. Co., Anburn, Ind.

Pumps (Wood)

Adams, S., Connersville, Ind.
 Althouse-Wheeler Co., Waupun, Wis.
 American Pump & Supply Co., Toledo, O.
 Biggs, B. F. Pump Co., Lafayette, Ind.
 Blatchley, Chas. G., Drexel bldg., Phila., Pa.
 Bushnell Pump Co., Bushnell, Ill.
 Cedar Rapids Pump Co., Cedar Rapids, Ia.
 Challenge Co., Batavia, Ill.
 Chandler Pump Co., Cedar Rapids, Ia.
 Childs, Chas. H. & Co., Utica, N. Y.
 Cincinnati Pump Co., Cincinnati, O.
 Cole Bros. Lightning Rod Co., St. Louis, Mo.
 Decatur Lumber & Mfg. Co., Decatur, Ill.
 Depmster Mill Mfg. Co., Beatrice, Neb.
 Florence Pump & Lumber Co., Memphis, Tenn.
 Furber, Frank O., Saco, Maine
 Gouverneur Wood Pulp Co., Gouverneur, N. Y.
 Harris & Cole Bros., Cedar Rapids, Ia.
 Howard & Jennings, Syracuse, N. Y.
 Knight & Jillion Co., Indianapolis, Ind.
 McDonald, A. Y. & Morrison Mfg. Co.,
 Mercer, B. F., Alliance, O. Dubuque, Ia.
 Moline Pump Co., Moline, Ill.
 Nelson, N. O., Mfg. Co., St. Louis, Mo.
 Olds Pump Co., Erie, Pa.
 Page & Hill, Brasher Falls, N. Y.
 Rich Pump Co., Cincinnati, O.
 St. Joseph Pump & Mfg. Co., St. Joseph, Mo.
 Temple Pump Co., 15 W. 15th pl., Chicago, Ill.
 Torrent Pump Co., Sebring, O.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 West, Wm. S., Chillicothe, O.
 Winship Mfg. Co., Racine, Wis.
 Wood's, G. R., Sons, Sheffield, Pa.

Pumps (Wrecking)

BLAKE, GEO. F. MFG. CO., 115
 B'way, New York; Works: East Cambridge,
 Mass. (See adv. index & branch offices,
 end of book)
 Blakeslee Mfg. Co., DuQuoin, Ill.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Canton-Hughes Pump Co., Canton & Cleve-
 land, O.
 Davidson, M. T., 43 Keap, Brooklyn, N. Y.
 Dean Bros.' Steam Pump Works, Indianapolis,
 Ind.
 Douglas, W. & B., Middletown, Conn., & 85
 John, New York
 Epping-Carpenter Co., Pittsburg, Pa.
GOULDS MFG. CO., Seneca Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Kingsford Fdry. & Mach. W'ks, Oswego, N. Y.
KNOWLES STEAM PUMP WORKS,
 115 B'way, New York; Works: East Cam-
 bridge, Mass. (See adv. index & branch
 offices, end of book)
 Lake City Engineering Co., Erie, Pa.
MORRIS MACHINE WORKS, Bald-
 winsville, N. Y. (See adv. index & branch
 offices, end of book)
 National Foundry & Machine Co., Louisville,
 Ky.
 Nye Steam Pump & Machine Co., 70 W Wash-
 ington, Chicago, Ill.
PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Swenson, J., ft. of Warren, Jersey City, N. J.
 Van Wie Pump Co., Syracuse, N. Y.
 Wilson-Snyder Mfg. Co., Ross & Water, Pitts-
 burg, Pa.

Pumps & Boilers (Combined)

Blakeslee Mfg. Co., Du Quoin, Ill.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Cameron, A. S. Steam Pump Works, ft. E 23d
 New York
 Canton-Hughes Pump Co., Canton & Cleve-
 land, O.
 Columbus Steam Pump Works, Columbus, O.
 Davidson, M. T., 43 Keap, Brooklyn, N. Y.
 Dean Bros.' Steam Pump Works, Indianapolis,
 Ind.
DEANE STEAM PUMP CO., 115
 B'way, New York; Works: Holyoke, Mass.
 (See adv. index & branch offices, end of book)
 Dow, Geo. E. Pumping Engine Co., 179 1st,
 San Francisco, Cal.
FAIRBANKS, MORSE & CO., Wabash av.
 & Eldredge pl., Chicago, Ill. (See adv.
 index & branch offices, end of book)

Hall Steam Pmp Co., Pittsburg, Pa.
 National Foundry & Machine Co., Louisville, Ky.
PLATT IRON WORKS CO., Dayton, O.
 (See adv. index & branch offices, end of book)
 Roberts, Geo. J. Co., Dayton, O.
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Weinman Machine Works, Columbus, Ohio
 Wells, F. C. (Est. of), S. Clinton, Chicago, Ill.
WORTHINGTON, HENRY R., 115
 B'way, New York. (See adv. index &
 branch offices, end of book)

Punch & Shear Combined (Hand Power)

Armstrong-Blum Mfg. Co. ("Marvel," also I
 Beam Punch & Slitting Shear), 107 N.
 Francisco av., Chicago, Ill.
 Bethlehem Foundry & Machine Co., Front,
 South Bethlehem, Pa.
 Custer Mfg. Co. ("Custer"), Summitville, Ind.
 Little Giant Punch & Shear Co. ("Little
 Giant" Lever), Sparta, Ill.
 Nappanee Iron Works ("Victor" for Tanners),
 Nappanee, Ind.
 Star Forge Co. ("Star" Armor Plate), Buf-
 falo, N. Y.
 Whiting, Geo. Co., 156 W North av, Chicago,
 Ill.
YOUNG MACHINE & TOOL CO, 211 Cen-
 tre, New York, & Worcester, Mass. (See
 adv. index, end of book)

*Punch & Shears for Band Saws

COVEL MFG. CO., Benton Harbor, Mich.
 (See adv. index, end of book)

Punch & Straightener Com- bined

United Engineering & Foundry Co., Farmers'
 Bank bldg, Pittsburg, Pa., & Youngstown,
 Ohio

Punches (Belt)

Atkins, E. C. & Co. ("Rogers"), Indianapo-
 lis, Ind.
 Buffalo Specialty Co. ("New Play"), 375 Elli-
 cott, Buffalo, N. Y.
 Eyelet Tool Co., 40 Lincoln, Boston, Mass.
 Kraeuter & Co., Newark, N. J.
MORRILL, CHAS. ("Morrill"), 277 B'way,
 New York. (See adv. index, end of book)
 Osborne, C. S. & Co. ("C. S. O. & Co."),
 Harrison, N. J.
 Peck, Stow & Wilcox Co. ("Hercules"),
 Southington, Conn.
 Rogers, J. J. ("Rogers"), Lincoln, Neb.
 Schollhorn, Wm. Co. ("Bernard's"), New
 Haven, Conn.
 Smith, Otis A., Rockfall, Conn.
 Smith & Egge Mfg. Co. ("S. & E. M. Co."
 Revolving Spring, etc.), Bridgeport, Conn.
 Vaughn & Bushnell Mfg. Co. ("V. & B."
 Solid Steel), Chicago, Ill.
 Whiting, Geo. Co., 156 W North av, Chicago,
 Ill.

Punches (Blacksmiths')

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index,
 end of book)
 Atha Tool Co., Newark, N. J.
 Beall Bros. (Inc.), Alton, Ill.
 Bicknell Mfg. & Supply Co., Janesville, Wis.
 Champion Tool Co. ("Champion"), Meadville,
 Pa.
 Iron City Tool Works, 32d & Smallman, Pitts-
 burg, Pa.
 Klein-Logan Co., S 13th & Breed, Pittsburg,
 Pa.
NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of book)
 Pittsburg Tool & Drop Forge Co., Cheswick,
 Sntton. C. E. Co., Toledo, O.
 Vaughn & Bushnell ("V. & B." Center), 875
 W. Carroll av., Chicago, Ill.
 Verona Tool Works, Verona, Pa., & Murland
 bldg, Pittsburg, Pa.
 Whiting, Geo. Co., 156 W North av, Chi-
 cago, Ill.
WOODS VALVE & MACHINE CO.
 ("Hercureka"), Steubenville, O. (See adv.
 index, end of book)

Punches (Boilermakers')

(See also Punching Machines, Boilermakers')
 American Die & Tool Co., Reading, Pa.
 Chester Engineering & Machine Co. ("P. &
 S."), Chester, Pa.

Cleveland Steel Tool Co., Cleveland, O.
 Lovejoy Tool Works (Cast Steel & Drop Forged Screw; Also with Ratchet Attachment), 86 E Ohio, Chicago, Ill.
 Richards, I. P. Co., Providence, R. I.
WOODS VALVE & MACHINE CO.
 ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Butchers' Saw, Etc.)

Goodell-Pratt Co., Greenfield, Mass.
 Thompson, H. G. & Son Co. ("Thompson's"), New Haven, Conn.

Punches (Button Hole)

Krauter & Co., Newark, N. J.

Punches (Center & Prick)

ANDERSON FORGE & MACHINE CO., 271
 Guoin, Detroit, Mich. (See adv. index, end of book)
 Beall Bros., Inc., Aiton, Ill.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Browne & Dowd Mfg. Co. (Knurled), Meriden, Conn.
 Buck Bros. (And Solid), Millbury, Mass.
 Evansville Tool Works, Evansville, Ind.
 Goodell-Pratt Co. (Knurled), Greenfield, Mass.
 Goodsell Mfg. Co., Greenfield, Mass.
 Jennings, C. E. & Co., 42 Murray, New York
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Keystone Mfg. Co. ("Keystone" Center), 41 Chandler, Buffalo, N. Y.
 Krauter & Co., Newark, N. J.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of book)
 Nicol & Co., 66 N. Jefferson, Chicago, Ill.
 Osborne, C. S. & Co. ("C. S. O. & Co." Prick), Harrison, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
STARRETT, L. S. CO. (Machinists, Center, etc.), Athol, Mass. (See adv. index & branch offices, end of book)
 Stortz, Jno. & Son ("Diamond"), 210 Vine, Phila., Pa.
 Syracuse Twist Drill Co. (Knurled, Prick & Corrugated Center), Syracuse, N. Y.
 Tuck Mfg. Co., Brockton, Mass.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Tinners), 875 W. Carroll av., Chicago, Ill.

Punches (Conductors' Ticket, Etc.)

AMERICAN RAILWAY SUPPLY CO., 26
 Park pl, New York. (See adv. index, end of book)
 Bonney-Vehslage Tool Co., 124 Chambers, New York
 Bridgeport Hardware Co., Bridgeport, Conn.
CINCINNATI MFG. CO., 1243 W 6th,
 Cincinnati, O. (See adv. index, end of book)
 Crocker, L. O., East Braintree, Mass.
 International Register Co., 124 W Jackson, boul, Chicago, Ill.
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Krauter & Co., Newark, N. J.
 McGill Ticket Punch Co., 171 S Canal, Chicago, Ill.
MEYERS, FRED. J. MFG. CO., Hamilton,
 O. (See adv. index, end of book)
 Recording Fare Register Co., New Haven, Sayre, L. A. Co., Newark, N. J.
 Schoilhorn, Wm. Co. ("Bernard's"), New Haven, Conn.
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Southworth Bros., Portland, Me.
 Stedman, Jno. Harry, Rochester, N. Y.
 Sterling-Meaker Co., 420 Ogden, Newark, N.J.
 Tower & Lyon Co., 95 Chambers, New York
 Wilcox, W. W. & Co., 201 Lake, Chicago, Ill.
 Woodman, R. Mfg. & Supply Co. (Cast Steel), Boston, Mass.

Punches (Coopers')

Stortz, John, & Son, 210 Vine, Phila., Pa.

Punches (Drive)

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Bemis & Call Hdw. & Tool Co. (Steel), Springfield, Mass.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Buck, Chas., Millbury, Mass.

Clough, R. M., Tolland, Conn.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Eyelet Tool Co., 40 Lincoln, Boston
 Goodell-Pratt Co. (Knurled), Greenfield, Mass.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
 Osborne, C. S. & Co. ("C. S. O. & Co." Harness Makers, etc.), Harrison, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.
 Transue & Williams Co. (Drop Forged), Alliance, O.
 Tuck Mfg. Co., Brockton, Mass.
 Wilcox, Crittenden & Co., Middletown, Conn.
WOODS VALVE & MACHINE CO.
 ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Flue Shearing)

CLEVELAND PUNCH & SHEAR WORKS
 Co., Cleveland, O. (See adv. index, end of book)

Richards, I. P. Co., Providence, R. I.

Punches for Beams

(See Punches for Ornamental Iron Work)

Punches for Ornamental Iron Work

BRAUN, J. G., 322 S. Paulina, Chicago,
 Ill., & 537 W 35th, New York. (See adv. index, end of book)
 Lewthwaite, T. H. (Power, Hand & Foot), 413 E 31st, New York
 Richards, I. P. Co., Providence, R. I.
WOODS VALVE & MACHINE CO.
 ("Hercureka"), Steubenville, O. (See adv. index, end of book)

*Punches for Scrolls

BRAUN, J. G., 322 S. Paulina, Chicago,
 Ill., & 537 W. 35th, New York. (See adv. index, end of book)
WOODS VALVE & MACHINE CO.
 ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Gang)

(See Punching Machines, Multiple)

Punches (Gasket)

Victor Tool Mfg. Co. ("Victor"), Waynesboro, Pa.

Punches (Hand)

Akron Machine Co., Akron, O.
 American Lock Nut Co. ("Lightning Portable"), Oregon, Ill.
ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Bertsch & Co., Cambridge City, Ind.
 Buffalo Forge Co., Buffalo, N. Y.
 Excelsior Tool & Machine Co. ("Little Giant" Portable Lever), E. St. Louis, Ill.
 Fulton Iron Works ("Detroit-Rice" Hand Lever), Detroit, Mich.
 Evansville Tool Works, Evansville, Ind.
HEARTLEY MACHINE, VARIETY
 Iron & Tool Works, Toledo, O. (See adv. index, end of book)
 Keene, Geo. C. & Co., Cincinnati, O.
 Kidder, J. F., Mfg. Co. ("Little Blacksmith"), Burlington, Vt.
 Lewthwaite, T. H., 413 E 31st, New York.
 Loyd, John Co., 558 Water, New York
MORRILL, CHAS. ("Morrill"), 277 B'way,
 New York. (See adv. index, end of book)
 Mossberg, Frank, Co., Attleboro, Mass.
NIAGARA MACHINE & TOOL WKS.,
 Buffalo, N. Y. (See adv. index, end of book)
 Niles-Bement-Pond Co., 111 B'way, New York
 Perkins Machine Co. (Metal), Warren, Mass.
 Queen City Punch & Shear Co., 208 Lawrence, Cincinnati, O.
 Richards, I. P. ("U. S." Standard Punches for Punching Iron & Steel), Providence, R. I.
 Rock River Machine Co. ("Badger" Boilermakers, Tinners, etc.), Janesville, Wis.
 Strait, H. N. Mfg. Co. (For Cooperage Mfrs.), Kansas City, Mo.
 Vaughn & Bushnell Mfg. ("V. & B."), 875 W. Carroll av., Chicago, Ill.
WATSON-STILLMAN CO., 50 Church, New
 York. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chi-
 cago, Ill. (See adv. index & branch offices, end of book)

Whitney, W. A., Mfg. Co. ("Uncle Sam's Choice," "The User's Pride," Portable), Rockford, Ill.
WOODS VALVE & MACHINE CO.
 ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Hand Power)

Badger State Machine Co., Janesville, Wis.
 Baker, Wm. H. Trenton, N. J.
 Bicknell Mfg. & Supply Co., Janesville, Wis.
 New Doty Mfg. Co., Janesville, Wis.
 Richards, I. P. Co., Providence, R. I.
 Star Forge Co. ("Star" Armor Plate), Buffalo, N. Y.
YOUNG MACHINE & TOOL CO., 211 Cen-
 tre, New York, & Worcester, Mass. (See adv. index, end of book)

Punches (Hand & Tube Hole)

Chester Engineering & Machine Co. ("P. & S."), Chester, Pa.
CLEVELAND PUNCH & SHEAR WORKS
 Co., Cleveland, O. (See adv. index, end of book)
 Cleveland Steel Tool Co., 1144 W. 3rd, Cleveland, Ohio
 Hilles & Jones Co., Wilmington, Del.
 Long & Allstatter Co., Hamilton, O.
 New Doty Mfg. Co., Janesville, Wis.
 Richards, I. P. Co., Providence, R. I.

*Punches (High Speed)

CLEVELAND PUNCH & SHEAR WORKS
 Co., Cleveland, O. (See adv. index, end of book)

Punches (Hog Ring)

Humason & Beckley Mfg. Co., New Britain, Conn.

Punches (Hollow)

Stortz, John & Son, 210 Vine, Phila., Pa.

Punches (Horizontal)

(See Punching Machines, Horizontal; also Machinery, Punching & Shearing)

Punches (Hydraulic)

(See Punching Machines, Hydraulic; also Machinery, Punching & Shearing)

*Punches (Hydraulic, for Web or T Rails, Etc.)

AMERICAN STEEL & WIRE CO., Com-
 mercial Nat. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Punches (Marking)

Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.

Punches (Multiple)

(See Punching Machines, Multiple)

Punches (Paper)

MORRILL, CHAS. ("Morrill"), 277 B'way,
 New York. (See adv. index, end of book)
 Tatum, Samuel C. Co. (Adjustable Office), Cincinnati, O.

Punches (Pin)

Tuck Mfg. Co., Brockton, Mass.

Punches (Pneumatic)

(See Pneumatic Punches)

Punches (Portable)

American Lock Nut Co. ("Lightning"), Oregon, Ill.
 Armstrong-Blum Mfg. Co. ("Marvel," All Steel), 124 N. Francisco av., Chicago, Ill.
 Excelsior Tool & Machine Co. ("Little Giant"), East St. Louis, Ill.
 Kidder, J. F. Mfg. Co. ("Little Blacksmith"), Burlington, Vt.

Punches (Power)

(See Machinery, Punching & Shearing; also Shears, Various Kinds)

Punches (Revolving)

Johnson, Wm. (Hedberg Works), Newark, N. J.
Kraeuter & Co., Newark, N. J.
Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.
Stearns, E. C. & Co. (Revolving Spring), Syracuse, N. Y.

Punches (Round or Saddlers')

Johnson, Wm. (Hedberg Works), Newark, N. J.
Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.
Stortz, John, & Son, 210 Vine, Phila., Pa.

Punches (Saw)

Goodell-Pratt Co. ("Goodell"), Greenfield, Mass.
WOODS VALVE & MACHINE CO. ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Screw)

Lovejoy Tool Works (Cast Steel & Drop Forged, also with Ratchet Attachment), 86 E Ohio, Chicago, Ill.

*Punches (Sheet Metal)

MORRILL, CHAS. ("Morrill Hercules" up to 18 Gauge), 277 B'way, New York. (See adv. index, end of book)
WOODS VALVE & MACHINE CO. ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Solid)

Tuck Mfg. Co., Brockton, Mass.
WOODS VALVE & MACHINE CO. ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Spring)

Johnson, Wm. (Hedberg Works), Newark, N. J.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)
Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.
Smith & Egge Mfg. Co., Bridgeport, Conn.
Springfield Machine Screw Co., Springfield, Mass.
Star Heel Plate Co. (Louis Sacks, Prop.), Hamburg pl & Ave. L, Newark, N. J.
WOODS VALVE & MACHINE CO. ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Ticket)

(See Punches, Conductors' Ticket)

Punches (Tie Plate)

Pittsburg Tool & Drop Forge Co. ("Cheswick," for Driving Tie Plates), Works, Cheswick, Pa.
WOODS VALVE & MACHINE CO. ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punches (Track)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
Atha Tool Co. (Solid Cast Steel), Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Chester Engineering & Machine Co. ("P. & S."), Chester, Pa.
Evansville Tool Works, Evansville, Ind.
Hubbard & Co., Murtland bldg, Pittsburg, Pa.
Iron City Tool Works (Ltd.), Pittsburg, Pa.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Klein-Logan Co., S 13th & Breed, Pittsburg, Pa.
Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
Vaughn & Bushnell Mfg. Co. ("V. & B." Tool Steel, Oil Finished), 875 W Carroll av., Chicago, Ill.

Verona Tool Works, Verona, Pa. & Pittsburg, Pa.
Warwood Tool Co., Wheeling, W. Va.
WATSON-STILLMAN CO. (Hydraulic), 50 Church, New York. (See adv. index, end of book)
WOODS VALVE & MACHINE CO. ("Hercureka"), Steubenville, O. (See adv. index, end of book)

Punching Machines (I Beam)

(See Machines, I Beam Punching)

Punching & Shearing Machinery

(See Machinery, Punching & Shearing)

Purifiers (Feed Water)

(See also Heaters, Feed Water)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Water Softener Co. ("Bruun-Lowen-er"), 1003 Chestnut, Phila., Pa.
Angell, Jno. E. & Co. (Chemical), St. Louis, Mo.
Bates Machine Co. ("Cookson" System), Joliet, Ill.
Berry Engineering Co. ("Berry" "Monograph"), Chester, Pa.
Colles, E. G. T., & Co. ("Colles" Automatic Live Steam Filter & Purifier), 20 S Canal, Chicago, Ill.
Davis, I. B. & Son, Hartford, Conn.
Dodge Mfg. Co. ("Eureka"), Mishawaka, Ind.
Duquesne Mfg. Co. ("Gunning"), Pittsburg, Pa.
Eclipse Feed Water & Purifier Co., Appleton, Wis.
Economy Iron Works ("Dougherty"), Chester, Pa.
Erie Machine Shops ("Jackson"), Erie, Pa.
Frost Mfg. Co., Galesburg, Ill.
Fulton Iron Works ("Llewellyn"), San Francisco, Cal.
GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av., Phila., Pa. (See adv. index & branch offices, end of book)
Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa.
Harrison Safety Boiler Works ("Sorge"), Hopkes Mfg. Co., Springfield O. Phila., Pa.
Jacobs, Chas. Co., 51 Oliver, Boston, Mass.
Jewell Engineering Co., 206 W Lake, Chicago, Ill.

Just Mfg. Co., Heed bldg., Phila., Pa.
Kennicott Water Softener Co., 206 La Salle, Chicago, Ill.
Keyes, F. E., & Son ("Advance"), 20 Broad, Liberty Mfg. Co., Pittsburg, Pa. New York
McGowan, Jno. H. Co., Cincinnati, O.
Marion Incline Filter & Heater Co., Marion, O.
Moffat Feed Water Heater & Purifier Co. (Ltd.), Detroit, Mich.
Northern Water Softener Co. ("Bartlett"), Madison, Wis.
Patterson, D. W. ("Machman" System), Harrison bldg, Phila., Pa.
Patterson, Frank L. & Co., 26 Cortlandt, New York

PETROLEUM IRON WORKS CO., Sharon, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)
Pittsburg Feed Water Heater Co., Pittsburg, Pa.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)
Platt Iron Works Co., Dayton, O.
Power Plant Specialty Co. ("Vater"), 247 S Jefferson, Chicago, Ill.

Ross Valve Co. ("Railton," "Campbell"), Troy, N. Y.
SCAIFE, WM. B. & SONS CO. ("Scientific"), 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Steam Appliance Mfg. Co. ("Judge," "Morrison"), Batavia, N. Y.
Stewart Heater Co., Buffalo, N. Y.
Under-Feed Stoker Co. ("Bartlett"), 204 Dearborn, Chicago, Ill.

Ward & Upright Engineering Co., Brooklyn, N.Y.
Webster, Warren & So., Camden, N. J.
Whitlock Coil Pipe Co., Elmwood, Conn.
Wickes Boiler Co., Saginaw, Mich.

Purifiers & Scrubbers (Gas)

(See also Gas Works Apparatus & Construction; also Gas Works Machinery, Etc.)

Bartlett, Hayward & Co., Baltimore, Md.
CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)

Continental Iron Works, West & Cayler, Brooklyn, N. Y.
Gas Machinery Co. (Rotary), Cleveland, O.
GRAVER, WM., TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
Isbell-Porter Co. (Rotary Ammonia & Shaving), Newark, N. J.
Kerr-Murray Mfg. Co., Fort Wayne, Ind.
Lloyd Construction Co., Detroit, Mich.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Wood, R. D. & Co., 400 Chestnut, Philadelphia, Pa.

Push Button Centers

Auburn Button Works, Auburn, N. Y.
Scranton Button Co. (Electroid), Scranton, Pa.

Push Buttons

(For Other Electrical Specialties, see Index of Contents)

American Car & Ship Hdw. Mfg. Co., New Castle, Pa.
American Hard Rubber Co., 9 Mercer, New York
Ansonia Electrical Co., Ansonia, Conn.
BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)
Chicago Glass Novelty Co., Marion, O.
Corbin, P. & F., New Britain, Conn., & 17 Murray, New York
Couch, S. H. Co. ("Worksite"), Boston, Mass.
DELAWARE HARD FIBRE CO., Wilmington, Del. (See adv. index, end of book)
Dickinson Mfg. Co. (Rubber & Elborine), Springfield, Mass.
Dixon, Fred'k W. (Wood), 92 Utica, Boston, Mass.
Edwards & Co. ("New Mite," "Midget Jr."), 144th & 4th av, New York
Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
Electrical Appliance Co., Waterbury, Conn.
Hart & Hegeman Mfg. Co., Hartford, Conn.
Keil, Francis & Son ("Anti-Wood," "Anti-Screw Midget"), 667 E 163d, New York
Manhattan Electrical Supply Co., 17 Park pl, New York
Murdock, W. J. & Co., Chelsea, Mass.
Ostrander, W. R. & Co., 22 Dey, New York
Patrick, Carter & Wilkins Co., 22d & Wood, Phila., Pa.
Pass & Seymour ("No-Scr"), Solvay, N. Y.
Penn Hardware Co. ("Penn-Hellas"), Reading, Pa.
Phelps & Sons Mfg. Co., 110 Pennington, Newark, N. J.
Rauscher, Jno. (Wood), St. Paul, Minn.
Reading Hardware Co., Reading, Pa.
Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
Sargent & Co., New Haven, Conn., & 94 Centre, New York
Siemon Hard Rubber Corp., Bridgeport, Conn.
Spencer's, I. S. Sons, Guilford, Conn.
Starr Bros. Bell Co., East Hampton, Conn.
U. S. E. M. Co., 209 W 33d, New York
Union Hardware Co. (Wood), Torrington, Conn.
Viaduct Co., Relay, Md.
Walsh, Owen, Mfg. Co., 78 Barclay, New York
Warren, A. H. & Co., Bristol, Conn.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
Wilhelm, Henry (Bronze), 70 Frost, Brooklyn, N. Y.
Worth Electric Novelty Co., 112 Madison av, New York
Yale & Towne Mfg. Co., 9 Murray, New York

Push Plates (Plate Glass)

Anderson, Geo. H. & Co., 281 W. Superior, Chicago, Ill.

Pushers (Car)

(See Car Movers or Pushers)

Putty Mfrs.

Acme White Lead & Color Works, Detroit, Mich.
Allentown Mfg. Co., Allentown, Pa.
American Koalin Putty Co., Salem, Mass.
American Whiting & Putty Mfg. Co., 2 Rectory, New York
Baker, Wm. T. (Inc.), 228 Suydam, Jersey City, N. J.
Belknap, E. S., McSherry & Moran Co., 5 Ainslie, Brooklyn, N. Y.
Briggs, John & Co. ("Anchor"), 47 Purchase, Boston, Mass.
Butterworth, C. H. Drug & Paint Co., 62 N. Front, Phila., Pa.

Chicago White Lead & Oil Co., Chicago, Ill.
 Chicago Wood Finishing Co., 259 Elston av.,
 Chicago, Ill.
 Connors. Wm. Paint Mfg. Co. (American Seal
 White Lead), Troy, N. Y.
 Devoe, F. W. & C. T. Reynolds Co., 103 Ful-
 ton, New York, & Chicago, Ill.
 Dicks & Wiggim Co., Dayton, O.
 Felton, Sibley & Co., 136 N 4th, Phila., Pa.
FRENCH, SAMUEL H. & CO., 4th &
Callowhill, Phila., Pa. (See adv. index, end
 Fuller's, Geo., Sons, Hallowell, Me. of book)
 Grote, Geo. W. & Co. (Stone), 432 E 102d, New
 York
 Harlem Roofing & Waterproofing Co., 147 E
 125th, New York
 Hoffman, J. W. & Co., Boston, Mass.
 Jacobs, S., & Sons, 1365 Flushing av., Brook-
 lyn, N. Y.
 Kent & Purdy Paint Co., 701 N 2d, St. Louis,
 Mo.
 Lancaster Paint & Glass Co., Lancaster, Pa.
 Lucas, John & Co., 322 Race, Phila., Pa.
 Mark, Jacob Sons (Blue Putty), 1233 2d av.,
 New York
NEVIN, T. H. CO., North Side, Pittsburg,
Pa. (See adv. index, end of book)
RUTLAND FIRE CLAY CO., Rutland, Vt.
 (See adv. index & branch offices, end of book)
 Wilhelm, A., Co., Reading, Pa.

Putty Mfrs. (Stovemakers')

Cleveland Stone Co., Hickox bldg., Cleveland, O.
 Colebrook, W. H. & Son ("Colebrook"), 1419
 Orange, Syracuse, N. Y.
 Connors, Wm. Paint Mfg. Co., Troy, N. Y.
 Harlem Roofing & Waterproofing Co., 147 E
 125th, New York
PECORA PAINT CO. (S. New York's
 Son, Successor), ("Pecora"), 4th st &
 Reading R R, Phila., Pa. (See adv. in-
 dex, end of book)
RUTLAND FIRE CLAY CO., Rutland,
Vt. (See adv. index & branch offices, end
 of book)

Putty Ornaments

(See Ornaments, Composition)

Putty Powder

Anderson Bros., Jamaica Plain, Boston, Mass.
DOGGETT, STANLEY, 101 Beekman, New
York. (See adv. index, end of book)
HARRISON SUPPLY CO., 5 & 7 Dorchester
av Extension, Boston, Mass. (See adv.
 index, end of book)
 Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Johnston & Jennings (All Grades), Cleveland,
 Ohio
 Pittsburgh Crushed Steel Co., Pittsburgh, Pa.
 Rhodes, Jas. H. & Co. (Green & White), 117
 Kinzie, Chicago, Ill.

Putty (Roof)

Armitage Mfg. Co., Richmond, Va.
FRENCH, SAMUEL H. & CO., 4th
& Callowhill, Phila., Pa. (See adv. index,
 end of book)
 McDonough, S. E. Co., Hazlewood, Pittsburg,
 Pa.
MILWAUKEE CORRUGATING CO.
 (Jobbers), Milwaukee, Wis. (See adv. in-
 dex & branch offices, end of book)

Pyrites of Iron

Arminus Chemical Co., 56 Wall, New York
 Davis Sulphur Ore Co., 82 Beaver, New York

Pyrographic Needles

Postley, A. J., 130 W 116th, New York
 Solar Pyro Mfg. Co., 244 W 23d New York
 Wiseman Mfg. Co., 140 W 23d, New York

Pyrometers

American Steam Gauge & Valve Mfg. Co.,
 Boston, Mass.
 Ashcroft Mfg. Co., 85 Liberty, New York
BRISTOL CO., Waterbury, Conn.
 (See adv. index & branch offices, end of book)
 Bristol, Wm. H. ("Wm. H. Bristol," Record-
 ing Electric for all Ranges to 3,000 Fahr.),
 45 Vesey, New York
 Brown, Edward & Son (All Kinds), 313 Wal-
 nut, Phila., Pa.
 Central Laboratory Supply Co. ("Vawter" Re-
 cording), La Fayette, Ind.

CHICAGO FLEXIBLE SHAFT CO.,
 ("Le Chatelier's"), La Salle av & On-
 tario, Chicago, Ill. (See adv. index &
 branch offices, end of book)
CROSBY STEAM GAGE & VALVE
Co., 97 Oliver, Boston, Mass., & 16 Dcy,
New York. (See adv. index & branch offices,
 end of book)

Dixon, H. L. Co. ("Price"), Roslyn, Pa.
 Du Vivier, Ernest H., 30 Church, New York
 Elmer & Amend, 18th & 3d av, New York.
 Engelhard, Charles (Imported "Heralus Le
 Chatelier"), 30 Church, New York
 Frink Pyrometer Co. ("Frink"), Columbus, O.
 Hoskins Mfg. Co. (Electric), Detroit, Mich.
INDUSTRIAL INSTRUMENT CO., Fox-
boro, Mass. (See adv. index & branch of-
 fices, end of book)

Leeds & Northrup Co. (Electric Resistance),
 4901 Stenton av, Gtn, Phila., Pa.
 Marsh, Jas. P. & Co., 224 Washington, Chi-
 cago, Ill.

MORSE THERMO GAGE CO. (Optical),
 Ithaca, N. Y. (See adv. index, end of
 book)

NATIONAL GAUGE CO. ("National"), 168
8th, Brooklyn, N. Y. (See adv. index, end
 of book)

Oelschlaeger Bros. ("Importers"), 110 E 23d,
 Pelton & Crane, Detroit, Mich. New York
 Phila. Thermometer Co., 54 N 9th, Phila., Pa.
QUEEN & CO. (Ltd.), N. W. Cor. 8th
& Arch, Phila. Pa. (See adv. index, end
 of book)

Schaeffer & Budenberg Mfg. Co., 963 Kent av,
 Brooklyn, N. Y.
 Stupakoff, S. H. ("Le Chatelier"), 545 Turret,
 Pittsburg, Pa.
 Tagliabue, Chas. J. Mfg. Co., 53 Fulton, New
 York

Taylor Instrument Co., Rochester, N. Y.
 Thwing, Chas. B. (Electrical), Head bldg.,
 Phila., Pa.

Uehling Instrument Co. (Pneumatic Record-
 ing), Passaic, N. J.

Weiskopf, Abraham, 127 Market, Chicago, Ill.
 Wilson-Maeulen Co. (Imported "Advance,"
 Electric), Prince Bay, N. Y.

Zaubitz, August (Up to 3000 Degrees Fahr.),
 95 Cliff, New York

*Pyroxylin

INTERNATIONAL SMOKELESS POWDER
& Chemical Co., 140 Cedar, New York

Quarries

(See Cement Manufacturers: Granite Producers,
 etc.; Lime Manufacturers: Marble Pro-
 ducers; Roofing Slate Manufacturers; Stone
 Producers)

*Quarry Equipment (New & Second-Hand)

MARYLAND EQUIPMENT & SUPPLY CO.,
 Calvert & Fayette, Baltimore, Md. (See
 adv. index, end of book)

Quarry Hoists & Machinery

(See Hoists of Various Kinds: Cranes of Vari-
 ous Kinds; Drills, Rock; Derricks; Engines,
 Hoisting, Etc.)

Quartermaster's Department, U. S. Army

(Officers of Quartermaster's Department, U. S.
 Army, who have charge of construction work.)

Lieut.-Col. Fred'k G. Hodgson, Phila., Pa.
 Lieut.-Col. George Ruhlen, Washington, D. C.
 Major Joseph T. Crabbs, Washington, D. C.
 Major Thomas Cruse, Omaha, Neb.
 Major Thomas H. Slavens, Washington, D. C.
 Major R. B. Turner, Boise, Idaho
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 Capt. H. D. Berkeley, Fort Oglethorpe, Ga.
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 Capt. J. J. Boniface, Fort Assiniboine, Mont.
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 Capt. Geo. C. Burnell, Fort Wood, Bedloes
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Capt. Jos. C. Castner, Fort Thomas, Ky.
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 Seward, Alaska

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 Armistead, Carroll & McHenry, Md.

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 Capt. Moor N. Falls, Governors Island, N. Y.

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 rison, Ind.

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 Capt. W. T. Wilder, Fort Slocum, N. Y.

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 N. Y.

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 Dak.

Lieut. Earl Biscoe, Fort Hunt, Va.
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Lieut. Arthur L. Bryant, Fort Du Pont, Del.
 Lieut. Chas. C. Burt, Fort Worden, Wash.

Lieut. Bowers Davis, Fort Lincoln, N. Dak.
 Lieut. J. C. Fairfax, Fort Logan, Colo.

Lieut. Wm. R. Harrison, Fort Caswell, N. C.
 Lieut. Ralph E. Herring, Fort Washington, Md.

Lieut. Milton G. Holliday, Fort Ethan Allen,
 Vt.

Lieut. W. E. Holliday, Fort McPherson, Ga.
 Lieut. Henry S. Kilbourne, Fort Rodman, Mass.

Lieut. John McBride, Fort McKinley, Me.
 Lieut. William H. Menges, Key West Barracks,
 Fla.

Lieut. Willis C. Metcalf, Fort Adams, R. I.
 Lieut. William N. Michel, Fort Moultrie, S. O.

Lieut. H. G. Miller, Fort Flagler, Wash.
 Lieut. Geo. L. Morrison, Fort Wingate, N. Mex.

Lieut. Jos. E. Myers, Fort Michie, N. Y.
 Lieut. John M. Page Fort Greble, R. I.

Lieut. Wm. Paterson, Fort Hancock, N. J.
 Lieut. John S. Pratt, Fort Mansfield, R. I.

Lieut. Granville Sevier, Fort Casey, Wash.
 Lieut. John P. Spurr, Fort Terry, N. Y.

Lieut. D. W. Strong, Fort Brady, Mich.
 Lieut. Geo. H. Terrell, Fort H. G. Wright,
 N. Y.

Lieut. Matthew H. Thomlinson, Alcatraz Island,
 Cal.

Lieut. Robert L. Weeks, Fort Logan H. Roots,
 Ark.

Lieut. Chas. D. Winn, Fort Preble, Me.
 Lieut. Robert F. Woods, Fort Williams, Me.

Lieut. A. J. Woude, Fort Keogh, Mont.

Rabbits (Iron)

Illinois Iron & Bolt Co., Carpentersville, N. Y.

Racks (Armature)

American General Engineering Co. ("A. G.
 E."), 253 B'way, New York

Racks (Baggage)

Adams & Westlake Co., Ontario, c N Frank-
 lin, Chicago, Ill.

Rostand Mfg. Co., Milford Conn. ("McCar-
 thy's" Hat & Baggage Racks for Passen-
 ger Cars)

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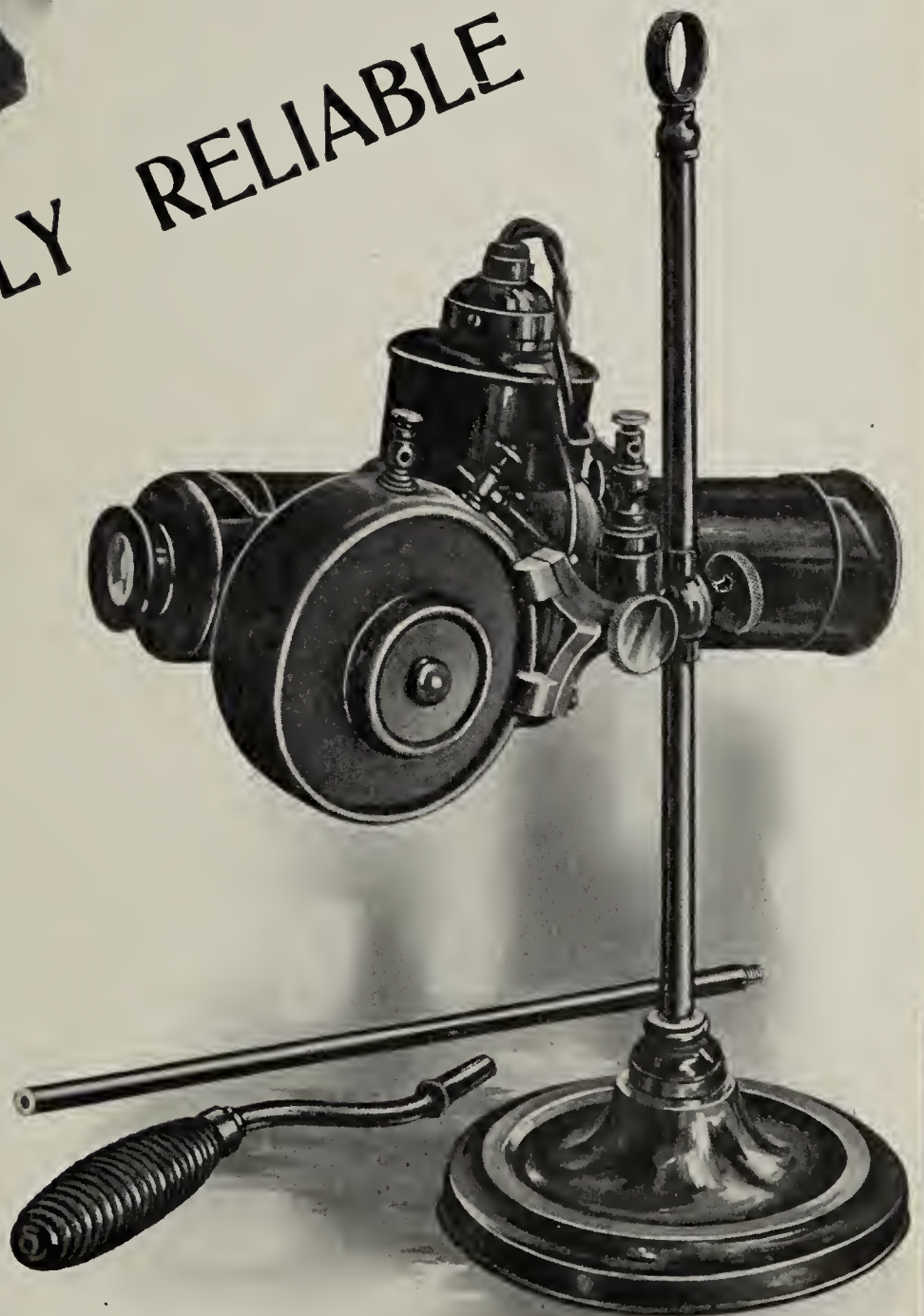
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Commercial Register

Racks (Bicycle)

Branner, A. & D., Boston, Mass.
Gould Co., 24 N Canal, Chicago, Ill.
Gregory, Gilles R., Norfolk, O.
Myers, F. E. & Bro., Ashland, O.
Union Mfg. Co., Toledo, O.

Racks (Core Handling)

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)
Moyer Tramrail Co., 134 S. 3rd, Phila., Pa.

Racks (Cut)

Boston Gear Works (Brass, Steel & Cast Iron), Norfolk Downs, Boston, Mass.
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. Y. (See adv. index, end of book)
Caldwell, H. W., & Son Co. (Spur, etc.), 17th & Western av, Chicago, Ill.
DAVIS, RODNEY, 626 Race, Phila., Pa. (See adv. index, end of book)
FAWCUS MACHINE CO., 2820 Smallman, Pittsburg, Pa. (See adv. index, end of book)
FOOTE BROS. GEAR & MACHINE CO., 44-50 N Carpenter, Chicago, Ill. (See adv. index, end of book)
GANSCHOW, WM. CO., 270 Washington boul., Chicago, Ill. (See adv. index, end of book)
Gould & Eberhardt, Newark, N. J.
Horsburgh & Scott Co., 5114 Hamilton, Cleveland, Ohio
JAMES, D. O. MFG. CO. 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
NUTTALL, R. D. CO. (Machine Cut), Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)
Philadelphia Gear Works (Inc.) (Brass, etc.), 12th & Vine, Phila., Pa.
VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)
Simonds Mfg. Co., Pittsburg, Pa.
STANDARD GAUGE STEEL CO. (Finished), Beaver Falls, Pa. (See adv. index, end of book)
Walcott, Geo. D. & Son, Jackson, Mich.

Racks (Display)

Bryan Novelty Mfg. Co. (Also Newspaper, Oil Cloth, etc.), Bryan, O.

*Racks (Dowel)

HILL & GRIFFITH CO., Cincinnati, O.
(See adv. index, end of book)

*Racks (Filing)

ESTEY BROS. CO. (Wire), 126 Liberty, New York. (See adv. index, end of book)

Racks for Cold Storage Rooms

Market Forge Co. (Galvanized Iron Coin), Barrett & Fulton, Boston, Mass.

Racks (Hat, Coat & Towel)

Arcade Mfg. Co., Freeport, Conn.
Cassady-Fairbank Mfg. Co. (Towel Rollers), 6106 La Salle, Chicago, Ill.
Grab, Victor M., & Co. ("Yale" Cloak & Hat), Ashland Block, Chicago, Ill.
Landers, Frary & Clark (Towel Racks, Polished, Solid Brass), New Britain, Conn.
Lewis, Samuel ("Lockit" Towel Roller), 5 Front, New York
Linton, W. H., Co. (Three Arm Brass Plated Towel Racks), Ogdensburg, N. Y.
McKenna Bros. Brass Co., Pittsburg, Pa.
Montrose, R. W. (Wood, Hat & Coat), Gallen, Parks & Parks, Troy, N. Y.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
Wire Goods Co. ("Ideal" Towel Rack), Worcester, Mass.

Racks (Insulated)

Fletcher Mfg. Co. ("Fletcher"), Dayton, O.

*Racks (Machine)

STANDARD GAUGE STEEL CO. (Finished Cut Steel), Beaver Falls, Pa. (See adv. index, end of book)

*Racks (Mining Machine)

NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburg, Pa. (See adv. index, end of book)

Racks (Oven)

Union Steel Screen Co. (Ltd.), Albion, Mich.

Racks (Pattern Storage)

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.

Racks (Pipe)

Grabler Mfg. Co. (For Heavy Pipe), Cleveland, O.

Racks (Portable Forge)

Lyon Metallic Mfg. Co., Aurora, Ill.

Racks (Postal Bag)

Harrison Postal Bag Rack Co., Fond du Lac, Wis.

Racks (Steel Storage)

Ohio Ceramic Engineering Co., Cleveland, O.

Racks (Stock Room)

Jeffers, Richard Co. ("Jeffers" Pressed Steel)
Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.

Racks (Tool)

Cleveland Wire Spring Co. (Sheet Metal), Cleveland, O.
Davis Mfg. Co., 267 6th, Milwaukee, Wis.
Federal Fixture Co., 497 W. Kinzie, Chicago, Ill.
Keighley, S., Metal Ceiling & Mfg. Co. (Steel Shelf), 824 Locust, Pittsburg, Pa.
Lyon Metallic Mfg. Co., Aurora, Ill.
Mfg., Equipment & Engineering Co., 209 Washington, Boston, Mass.
Massey Machine Co., Watertown, N. Y.
New Britain Machine Co. (Portable), New Britain, Conn.
Ohio Mfg. Co., Painesville, O.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Racks (Towel)

Browne & Dowd Mfg. Co., Meriden, Conn.
Forsyth Mfg. Co., Buffalo, N. Y.
Franklin Specialty Co. ("New Imperial" Roller Nickel Plated), Reading, Pa.
Hawes-Loanna Co., Towanda, Pa.
Phillips, A. J. Co., Fenton, Mich.
Rocky Hill Hardware Co. (Towel & Clothes), Rocky Hill, Conn.
Taplin Mfg. Co. ("Ideal"), New Britain, Conn.

Racks (Wine Bottle)

Bataille, Achille & Co., 587 Hudson, New York
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)

*Radiator Bases

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Radiator (Bronze)

(See Bronze Powders)

Radiator Dust Catchers

Hawkins, Rollyn Co., Indianapolis, Ind.

Radiator Guards (Wire)

(See Radiator Shields)

Radiator Screens (Ornamental)

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

Radiator Shields

Acme Fancy Wire Works (Also Guards), Detroit, Mich.
Buffalo Wire Works Co. (Also Guards), Buffalo, N. Y.
Decatur Cornice & Roofing Co. ("Perfect"), Decatur, Ill.
ESTEY WIRE WORKS CO. (Also Guards), 59 Fulton, New York. (See adv. index, end of book)
Foster, Wm., & Sons Co., Springfield, Ill.
Haines & Co., 747 W Lake, Chicago, Ill.
Hawkins, Rollyn Co., Indianapolis, Ind.
Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
HOWARD & MORSE (Also Guards), 45 Fulton, New York. (See adv. index, end of book)
Lyon Metallic Mfg. Co., Aurora, Ill.
MEYERS, FRED. J. MFG. CO. (Also Guards), Hamilton, O. (See adv. index, end of book)
Monash-Younger Co. ("Dixon" & "Monash"), 203 S. Canal, Chicago, Ill.
Prentice, L. H. Co., 34 Sherman, Chicago, Ill.
Rutherford, J., & Son ("Star"), Akron, O.
Tuttle & Bailey Mfg. Co. (Ornamental Cast Iron or Bronze), 83 Beekman, New York
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS (Also Guards), Milwaukee, Wis. (See adv. index, end of book)

*Radiator Union Nipple Clutch

SIMMONS, JNO. CO. ("Benton" for Radiator Valves), 106 Centre, New York, N. Y. (See adv. index, end of book)

Radiators (Electric)

GENERAL ELECTRIC CO. (Luminous), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Simplex Electric Heating Co., Cambridge, Mass.

Radiators (Electric Car)

(See Heaters, Electric Car)

Radiators (Gas)

American Beauty Gas Stove Co. ("American Beauty"), Erie, Pa.
American Stove Co. ("Reliable"), 414 N. 6th, St. Louis, Mo.
Clark, Geo. M. & Co. ("Jewell"), 82 Michigan av., Chicago, Ill.
Clow, J. B., & Sons Co. (Combination Gas & Steam, Chicago, Ill.)
Crane, Wm. M. Co., 16 W 32d, New York
Dangler Stove Co. (Branch), Cleveland, O.
Detroit Heating & Lighting Co., Wright, or Leib, Detroit, Mich.
Gilbert & Barker Mfg. Co., Springfield, Mass.
Milwaukee Gas Stove Co., Milwaukee, Wis.
New York Gas Stove Works, 243 Water, New York
Ringen Stove Co., St. Louis, Mo.
Southard-Robertson Co., 257 Water, New York
Union Stove Works, 70 Beekman, New York
Weiskittle, A. & Son, Baltimore, Md.

Radiators (Hot Air)

International Radiator Co., Inc. (Sheet Steel), 1309 Arch. Phila., Pa.

Radiators (Hot Water & Steam)

Advance Radiator Co., Syracuse, N. Y.
American Radiator Co. ("American"), General Office, 282 Michigan av., Chicago, Ill.
Backus Co. (Portable, Steam, for Gaseous Fuel), Brandon, Vt.
Buffalo Radiator Co., Buffalo, N. Y.
Central Radiator Co., 37 Wall, New York.
Fowler & Wolfe Mfg. Co. (Wall Radiators), Phila. Bourse, Philadelphia, Pa.
Fuller-Warren Co. ("Regina," "Fowler & Wolfe" & "Regal") Milwaukee, Wis.

Gibson Iron Works ("Exeter"), Gibson City, Ill.
 Gurney Heater Mfg. Co. ("Narrow" & "Duet"), 188 Franklin, Boston, Mass.
 Holland Radiator Co. ("Calor," "Bremen," "Eclipse," "Reliance" & "Unique"), 38 Dearborn, Chicago, Ill.
 Hopson & Chapin Mfg. Co. (Hot Water), New London, Conn.
 Jarecki Mfg. Co. ("Erie"), Erie, Pa.
 Kellogg-Mackay Co. ("Acme," "Corinth," "Kewanee" & "Federal Window"), 19 W 18th, Chicago, Ill.
KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan, Chicago, Ill. (See adv. index, end of book)
 McCrum-Howell Co. ("Richmond," Direct or Indirect Walls), 103 Park av, New York
 McLain, J. H. Co. ("Seneca"), Canton, O.
 Mott, J. L. Iron Works ("Star," "Utility" & "Roman"), 118 5th ave., New York.
 Nason Mfg. Co. (High Pressure Steam Only), 71 Beekman, New York
 National Radiator Co. ("Monarch," "Solus" & "Universal"), Johnstown, Pa.
 National Tube Co. (Staggard Tube, Circular, Coil, etc.), Pittsburg, Pa.
 New York Radiator Co., Utica, N. Y.
 Novelty Iron Co. (Emerald), Canton, O.
 Page, W. H. Boiler Co. ("Exeter," "Beacon," "Puritan," "Regal" & "Triad"), 15 Murray, New York
 Phila. Hardware & Malleable Iron Works, Inc. ("Keystone"), 9th & Jeff'n, Phila., Pa.
 Pierce, Butler & Pierce Mfg. Co. ("Lauraine" & "Syracuse"), Syracuse, N. Y.
 Pressed Radiator Co., Pittsburg, Pa.
 Prox, Frank Co., Terre Haute, Ind.
 Reading Radiator Co. ("Ducot," "Tricol" & "Tropic"), Reading, Pa.
 Shirley Radiator & Foundry Co., Indianapolis, Ind.
 Smith, H. B. Co. ("Coronet," "Crown," "Champion Union," "Imperial Union," "Royal Union," "Sovereign Union," "Union," "Reed," "Whittier," "Gold Pin," "School Pin" & "Utica Pin"), Westfield, Mass., & 39 E Houston, New York
 Sodemann Heat & Power Co. ("Ringer" & "Louis XIV"), 412 N. 6th, St. Louis, Mo.
 South Park Foundry & Machine Co. ("Rising Sun"), St. Paul, Minn.
 Union Radiator Co. ("Concord"), Johnstown, Pa.
 U. S. Radiator Co. ("Chautauqua" & "Triton"), Dunkirk, N. Y.
 U. S. Radiator & Boiler Co. ("Sun," "Crown," "Ornate," "Solar" & "Star"), West Newton, Pa.
 Utica Heater Co., Utica, N. Y.
 Walker & Pratt Mfg. Co., Boston, Mass.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Webster City Steel Radiator Co., Webster City, Ia.
 Williamsport Radiator Co., Williamsport, Pa.

Radiators (Stove Pipe)

Barber Mfg. Co., Ashtabula, O.
 Enterprise Foundry Co., 48 Olean, Rochester, N. Y.
 Rochester Radiator Co., 268 State, Rochester, N. Y.
 Ross Radiator Co. ("Ross" Smokepipe), Newburgh, N. Y.

Radiators (Water Cooling)

American Auto Brass Co., Columbus, O.
 A. Z. Co., 527 W 56th, New York
 Bliss-Chester Co., 31 Mathewson, Providence, R. I.
 Borbein, H. F. & Co., 2109 N. 9th, St. Louis, Mo.
 Brennan Motor Co., 101 Grape, Syracuse, N. Y.
 Briscoe Mfg. Co., Detroit, Mich.
 Detroit Auto Specialty Co., 12 Sherman, Detroit, Mich.
 Fedders Mfg. Works, 1590 Genesee, Buffalo, N. Y.
 Hayes Mfg. Co., Detroit, Mich.
 Hussey Drop Forge Mfg. Co., Cleveland, O.
 Janney, Steinmetz & Co., 4th & Market, Phila., Pa.
 Kells, W. N. Mfg. Co., 62 Van Winkle, Jersey City, N. J.
 Kinsey Mfg. Co. ("Kinwood"), Dayton, Ohio
 Long Mfg. Co., 381 Wabash av, Chicago, Ill.
 Mayo Radiator Co., New Haven, Conn.
 Noye Mfg. Co. (Automobile), 50 Lakeview av., Buffalo, N. Y.
 Rands Mfg. Co., 55 Macomb, Detroit, Mich.
 Rome-Turney Radiator Co., Rome, N. Y.
 Springfield Metal Body Co., Springfield, Mass.

Stolp Mfg. Co., cor Huron & Townsend, Chicago, Ill.
 Tragesser, John, Steam Copper Works, 447 W 26th, New York
 Whitlock Coil Pipe Co., Hartford, Conn.

Radius Planer Attachments

Underwood, H. B. & Co., 1023 Hamilton, Phila., Pa.

Rail Benders

(See also Rail Bending & Straightening Machines in Machinery)

Anderson, W. H., Tool & Supply Co., 14 Macomb, Detroit, Mich.
 Buda Foundry & Mfg. Co. ("Buda," "Jim Crow" & Roller Rail Bender), Railway Exchange bldg., Chicago, Ill. Works, Harvey, Ill.
 Fall River Machine Co., Fall River, Mass.
FAIRBANKS, MORSE & CO. (Automatic or "Jim Crow"), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
 Flather, Mark Planer Co., Nashua, N. H.
 Hardsocg Martin Co. ("Imperial" for Mine Rails), Pittsburg, Pa.
 Hubbard & Co., Pittsburg, Pa.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 157 Chambers, New York. (See adv. index, end of book)
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Mesta Machine Co., Lewis bldg., Pittsburg, Pa.
 Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
 Pettibone, Mulliken & Co. (Roller), 204 Dearborn, Chicago, Ill.
 Pittsburg Tool & Drop Forge Co., Cheswick, Pa.
 Q. M. S. Co. ("Q. & C." "Samson," Portable), Plainfield, N. J.
 Secor, A. W. ("Jim Crow"), 65 Fulton, New York.
 Solid Steel Tool & Forge Co., Brackenridge, Pa.
 Stine, S. B. (Plain & Ratchet), Osceola Mills, Pa.
 Turner, John T. ("Williston"), Lowell, Mass.
 Verona Tool Works ("Manning," Eccentric, etc.), Verona, Pa., & Pittsburg, Pa.
 Wallace Supply Co. ("Jim Crow," for Light Rails, Pipe, etc.), 23 S Jefferson, Chicago, Ill.

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475 Fulton bldg. New York. (See adv. index & branch offices, end of book)
 Zelnicker, Walter A. Supply Co. ("Zelnicker"), St. Louis, Mo.

Rail Bond Testers

(See Instruments, Electrical Testing & Measuring)

Rail Bonds

AMERICAN STEEL & WIRE CO. ("United States," "Crown" Solid Flexible Copper, Tubular Terminal, Multi-Terminal, Twin Terminal, Triple Terminal, Quadruple Terminal, Soldering), Commercial Nat. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Brown, Harold P. ("Brown," Plastic, Plastic Plug, Semi-Plastic & "Brown" Solid Copper), 120 Liberty, New York
 Chase - Shawmut Co. ("Shawmut" Soldered Flexible), Newburyport, Mass.
 Clark Electric & Mfg. Co. ("Clark" Soldered), 135 B'way, New York
 Electric Railway Improvement Co. (Copper, Electrically Welded & Electrically Braized), Cleveland, O.
 Electric Service Supplies Co. ("Protected"), 1024 Filbert, Phila., Pa.
 Eureka Tempered Copper Works ("The Eureka"), North East, Pa.
 Falk Company, Milwaukee, Wis.
 Flexible Mesh Rail Bond Co., Ypsilanti, Mich.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Goldschmidt Thermit Co. ("Thermit," Welded), 90 West, New York
 Harrington, S. H. & Co., 120 Liberty, New York

Johns, H. W.-Manville Co., 100 William, New York
 Lorain Steel Co. ("Lorain," Electrically Braized), Pennsylvania bldg., Phila., Pa.
 Lord Electric Co. ("Thomas" Laminated Soldered), 213 W. 40th, New York
 Oakley Steel Foundry Co. (Steel Terminal), Millbury, Mass.
 Ohio Brass Co. ("All Wire"), Mansfield, O.
 Roebling's, John A. Sons Co. ("Columbia," all Copper), Trenton, N. J.
 Wendell & MacDuffie, 50 Church, New York
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv index & branch offices, end of book)

Rail Braces

(See also Bars, Splice)

Ajax Forge Co., 138 Jackson boul, Chicago, Ill.
 Allentown Rolling Mills, Allentown, Pa.
 American Frog & Switch Co., Hamilton, O.
 Ames, W. & Co., Jersey City, N. J.
 Atlas Railway Supply Co., Manhattan bldg, Chicago, Ill.
 Beaver Dam Malleable Iron Co., Beaver Dam, Wis.
 Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill. Works, Harvey, Ill.
 Cambria Steel Co., Arcade bldg, Phila., Pa.
 Carnegie Steel Co., Pittsburg, Pa.
 Chicago Crossing Co., Monadnock bldg., Chicago, Ill.
CHISHOLM & MOORE MFG. CO. Malleable Iron, Tee Rail Brace, 49th & Lake, Cleveland, O. (See adv. index, end of book)
 Cincinnati Frog & Switch Co., Cincinnati, O.
 Colorado Fuel & Iron Co., Denver, Col.
 Conley Frog & Switch Co., Memphis, Tenn.
 Dayton Malleable Iron Co., Dayton, O.
 Dilworth, Porter & Co. ("Goldie"), Pittsburg, Pa.
 Elliott Frog & Switch Co., East St. Louis, Ill.
 Illinois Steel Co., 115 Adams, Chicago, Ill.
INDIANAPOLIS SWITCH & FROG CO., Springfield, O.
 Kilby Frog & Switch Co., Birmingham, Ala.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Knoxville Iron Co., Knoxville, Tenn.
 Lackawanna Steel Co. (Splice Bars, etc.), Buffalo, N. Y.
 Morden Frog & Crossing Works ("Union"), Commercial National Bank bldg., Chicago, Ill.
 National Railway Materials Co., 90 West, New York
 New York Switch & Crossing Co., Hoboken, N. J.
 Niagara Forged Steel Co., Buffalo, N. Y.
 Penna. Steel Co., Girard bldg, Phila., Pa.
 Pettibone, Mulliken & Co. ("Akins" Forged Steel), 204 Dearborn, Chicago, Ill.
 Portland Iron & Steel Co., Portland, Me.
 Q. M. S. Co. ("American" Guard Rail Fasteners), Plainfield, N. J.
 Rail Joint Co., 29 W 34th, New York
 Ramapo Iron Works, Hilburn, N. Y., & Niagara Falls, N. Y.
 Reading Iron Co., Reading, Pa.
 Republic Iron & Steel Co., Pittsburg, Pa.
 Ruffner & Son, Falls of Schuylkill, Philadelphia, Pa.
 Sellers Mfg. Co., 27 W Chicago av, Chicago, Ill.
 Tredegar Co., Richmond, Va.
 Union Drop Forge Co., 69 Indiana, Chicago, Ill.
UNION SWITCH & SIGNAL CO., THE. Swissvale, Pa., 143 Liberty, New York, & Monadnock blk., Chicago, Ill.
 Weir Frog Co., Cincinnati, O.
 Wilmington Malleable Iron Co., Wilmington, Del.

Rail Fasteners

Maryland Railway Supply Co. ("Spike Strut"), Continental bldg, Baltimore, Md.

Rail Joints

Atlas Railway Supply Co. ("Atlas," for Tee or Girder Rails), Manhattan bldg., Chicago, Ill.
 Bond, Duncan ("Jones" Bevelled), Denver, Colo.
 Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill.
 Cambria Steel Co., Arcade bldg., Phila., Pa.
 Carnegie Steel Co. ("Duquesne"), Pittsburg, Pa.
 Colorado Fuel & Iron Co., Denver, Colo. Pa.

FAIRBANKS, MORSE & CO.,
Wabash av. & Eldredge pl., Chicago, Ill.
(See adv. index & branch offices, end of book)

Falk Co. (Cast Welded, Continuous & Insulated), Milwaukee, Wis.

Fisher Rail Joint Works ("Triple Fish," "Compromise") (Clark Fisher, Prop.), Trenton, N. J.

Goldschmidt Thermit Co. ("Thermit"), 90 West, New York

Heil Rail Joint Welding Co. (Cast Welded), Milwaukee, Wis.

Illinois Steel Co., 115 Adams, Chicago, Ill.

Lackawanna Steel Co., Buffalo, N. Y.

KILGORE-PETELER CO., Minneapolis,
Minn. (See adv. index, end of book)

Lorain Steel Co. (Electrically Welded), Penna. bldg., Phila., Pa.

McConway & Torley Co., Pittsburg, Pa.

Milwaukee Rail Joint & Welding Co. ("Austin"), Milwaukee, Wis.

Penna. Steel Co., Girard Trust bldg., Phila., Pa.

Q. M. S. Co. ("P. R. R. Standard or Step Joint," "Q. & C. Bonzano" & "National," Insulated), Plainfield, N. J.

Rail Joint Co. (Continuous "Weber" & "Walhaupter"), 29 W 34th, New York

Railroad Supply Co. (Fibre Insulation), 215 Dearborn, Chicago, Ill.

Ramapo Iron Works, Hilburn, N. Y., & Niagara Falls, N. Y.

Solid Steel Tool & Forge Co. (Insulated), Brackenridge, Pa.

Stanford, Arthur L. ("Stanford"), 4630 Lake av., Chicago, Ill.

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Lorain Steel Co. (Electrically Welded), Penna. bldg., Phila., Pa., & Johnstown, Pa.

Rail Joint Co. ("Weber" & "Walhaupter"), 29 W. 34th, New York

Rail Mills (Iron & Steel)

(This List Contains Only the Mills that Roll Rails; see also Rails, Steel)

American McKenna Process Co. ("McKenna" Process Renewed Steel Rails), Milwaukee, Wis.

American Steel Co. (Jobbers, 8 to 45 lbs.), Pittsburg, Pa.

Atlanta Steel Co. (Light Steel T Rails), Atlanta, Ga.

Bethlehem Steel Co. (Standard Sections, Open Hearth, Open Hearth Nickel Steel & Nickel Chrome Steel Rails), South Bethlehem, Pa.

Buffalo Steel Co. (Bessemer Steel), 12 to 30 lbs., Tonawanda, N. Y.

Calumet Steel Co. (Light Bessemer Steel Rails, 8 to 20 lbs.), Commercial Bank bldg., Chicago, Ill.

Cambria Steel Co. (Bessemer & Open Hearth Steel T Rails, 8 to 100 lbs.), Arcade bldg., Phila., Pa.

Carnegie Steel Co. (Bessemer Standard Sections of Steel Rails, 50 lbs. & Heavier & Light Sections under 50 lbs.), Pittsburg, Pa.

Colorado Fuel & Iron Co. (Standard Sections of Bessemer & Open Hearth Steel Rails & Light Mine Rails), Denver, Colo.

Hirsch Rolling Mill Co. (Light Iron & Steel Rails), St. Louis, Mo.

Holidaysburg Iron & Steel Co. (Flat & Small Iron T Rails), Holidaysburg, Pa.

Illinois Steel Co. (Bessemer & Open Hearth Standard Sections of Steel Rails & Light Rails, 12 to 45 lbs.), Chicago, Ill.

Indiana Steel Co. (Standard Sections Open-Hearth Steel), Commercial Bank bldg., Chicago, Ill.

Interstate Iron & Steel Co. (Light Bessemer Steel Rails), 1st Nat. Bank bldg., Chicago, Ill.

Jones & Laughlin Steel Co. (Bessemer & Open Hearth Light Steel Rails up to 42 lbs.), Pittsburg, Pa.

Judson Mfg. Co. (Light Iron Rails), San Francisco, Cal.

Knoxville Iron Co. (Light Iron T Rails, 12 to 30 lbs.; also Street Rails), Knoxville, Tenn.

Lackawanna Steel Co. Bessemer & Open Hearth Standard Sections of Steel Rails; also Light Steel Rails, 12 to 65 lbs., Buffalo, N. Y.

Linton Rolling Mill Co. (Light Steel Rails, 12 to 40 lbs.), Linton, Ind.

Lorain Steel Co. (Gilder & High Tee), Penna. bldg., Phila., Pa. Works, Johnstown, Pa.

Maryland Rail Co. (Renewed Steel Rails from 8 to 40 lbs.), Cumberland, Md.

Maryland Steel Co. (Standard Sections of Steel Rails), Sparrows Point, Md., & Girard bldg., Phila., Pa.

National Tube Co., of Ohio (Light Rails), Lorain, O.

Ohio Falls Iron Co. (Light Iron Rails), New Albany, Ind.

Ohio Rail Co. (Rolled Steel Rails), Newark, Ohio

Penna. Steel Co. (Standard Sections of Bessemer & Open Hearth Steel Rails), Girard bldg., Phila., Pa.

Rail Joint Co. (Tram Rails), 29 W 34th, New York

Republic Iron & Steel Co. (Standard Sections of Bessemer Steel Rails & Light Iron & Steel T Rails), Pittsburg, Pa.

Seattle Steel Co. (Light Steel T Rails, 8 to 20 lbs.), Youngstown, Wash.

Standard Chain Co. (Light Iron T Rails), Pittsburg, Pa.

Tennessee Coal, Iron & Railroad Co. (Standard Sections of Bessemer & Open Hearth Steel Rails & Light Rails, up to 100 lbs.), Birmingham, Ala.

Western Rolling Mill Co. (Iron T Rails, 8 to 20 lbs.), Denver, Colo.

West Virginia Rail Co. (Steel Rails, 16 to 30 lbs.), Huntington, W. Va.

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(See Brass Altar Rails & Pulpits)

Railings (Brass)

(See Bank & Office Railings)

Railings (Iron & Brass Pipe)

BOLLES, J. E. IRON & WIRE
Works, Detroit, Mich. (See adv. index, end of book)

Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.

ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)

GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)

Heath-Johnson Co. (Inc.), 123 Ontario, Chicago, Ill.

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Union Equipment & Bronze Co., 1901 Park av., New York

VAN DORN IRON WORKS CO., 2685 W. 79th, Cleveland, O. (See adv. index, end of book)

WISCONSIN IRON & WIRE WORKS, 190 E. Water, Milwaukee, Wis. (See adv. index, end of book)

WRIGHT WIRE CO. (& Fixtures), Worcester, Mass. (See adv. index & branch offices, end of book.)

*Railings (Railway Coach & Platform)

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

*Railings (Tool Room)

STANDARD CO., Railway Exchange bldg., Chicago, Ill. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O. (See adv. index, end of book)

Railroad Composite Apparatus

Sandwich Electric Co. ("Sandwich"), Sandwich, Ill.

Railroad Contractors

(See Contractors, General, Marked with a (*) Star)

Railroad Contractors' Tents

(See Tents for Railroad Contractors)

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(See also Railroad Supplies)

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Atlantic Equipment Co. (Locomotives, Cars, Relaying Rails, etc.), 30 Church, New York

Birmingham Rail & Locomotive Co. (Locomotives, Relaying Rails, Frogs, Switches, etc.), Birmingham, Ala.

Block-Pollak Iron Co., Carthage, Cincinnati, Ohio

Briggs, Marvin, 154 Nassau, New York

CAREY, GEO. H. (Locomotives, Relaying & Scrap Rails), 1 B'way, New York. (See adv. index, end of book)

Carey, Thos. F. (Rails, Locomotive, Passenger, Freight & Dump Cars, etc.), 70 State, Boston, Mass.

CARLIN'S, THOS. SONS CO., 1610 River av (North Side), Allegheny, Pa. (See adv. index, end of book)

Cincinnati Equipment Co. (Locomotives, Cars, Steam Shovels, etc.), Culloms Sta., Cincinnati, Ohio

Conard, Thos. P. & Co., 2 S. 15th, Phila., Pa.

Cox, Justice, Jr. & Co. (Cars, Locomotives, Relaying Rails, etc.), Phila., Pa.

Dallett & Co., Harrison bldg., Phila., Pa.

Dana & Co., 32 Broadway, New York

Dilley Foundry Co., Pine Bluff, Ark.

Dreifus, Emanuel & Co. (Relaying Rails), Arcade bldg., Phila., Pa.

Fitz-Hugh, Luther Co. (New & Second-Hand Locomotives, Cars, etc.), Monadnock blk, Chicago, Ill.

Foster, L. B. Co. (Steel & Relaying Rails), Park bldg., Pittsburg, Pa.

Green, L. A. Co. (New & Relaying Rails, Frogs, Switches, etc.), Park bldg., Pittsburg, Pa.

Gerson, S. & Son, Toledo, O.

HICKS LOCOMOTIVE & CAR WORKS (Rolling Stock, etc.), 277 Dearborn, Chicago, Ill.

Hirsch, Cal. & Sons Iron & Rail Co., St. Louis, Mo.

Hirsch, I. C. Iron, Steel & Rail Co. (Cars, Locomotives, Relaying Rails, Track Materials, etc.), Cincinnati, O.

Hirsch, L. K. Co. (Locomotives, Cars, Relaying Rails, etc.), 549 Rookery bldg., Chicago, Ill.

Hofius Steel & Equipment Co., Seattle, Wash.

Hyde Bros. & Co. (Relaying Rails, etc.), Empire bldg., Pittsburg, Pa.

Interstate Car Co., Indianapolis, Ind.

Jones, J. B. & Co. (Relaying Rails), Pittsburg, Pa.

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Joseph, Jos. & Bros. Co., Cincinnati, O.

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Kenly, W. K. Co. (Relaying Rails, etc.), 164 Dearborn, Chicago, Ill.

Kennedy, L. E. (Rails, Cars, Locomotives, etc.), Frederick, Md.

Keystone Equipment Co., West Street bldg., New York

Keystone Iron & Steel Co. (Second Hand Relaying Rails), Pittsburg, Pa.

Kilby Locomotive & Machine Works, Anniston, Ala.

Levis, Henry & Co. (Relaying Rails, etc.), 26 S 15th, Phila., Pa.

Low, Edgar S. Co. (Steam Shovels, Locomotives, Cars, etc.), Empire bldg., Pittsburg, Pa.

MacLeary, J. H. (Locomotives, Cars, etc.), Suffolk, Va.

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Ohio Iron & Metal Co., 1st National Bank
bldg., Chicago, Ill.
Poulterer, Joseph C., Land Title bldg., Phila.,
Pa.
Robinson & Orr, 419 Wood, Pittsburg, Pa.
Sabel Bros., Fulton bldg., Pittsburg, Pa.
Schwarzenberg, E. A. (Relaying Rails, etc.),
Garfield bldg., Cleveland, Ohio
SHAW, WILLIS CO., 171 LaSalle, Chicago.
(See adv. index, end of book)
Southern Iron & Equipment Co. (Locomotives,
Rails, etc.), Atlanta, Ga.
Southern Locomotive & Car Mfg. Co., Val-
dosta, Ga.
Standard Railway Equipment Co., 77 Jackson
boul., Chicago, Ill.
Steel Rail Supply Co. (Relaying & Scrap Rails,
Spikes, etc.), 2 Rector, New York
Torbert, A. C. & Co. (Locomotives, Cranes,
Steam Shovels, etc.), Monadnock blk, Chi-
cago, Ill.
Union Iron Works Co., Selma, Ala.
Van Loan, I. S. Co., Park & 131st, New York
Watson, John B. (Locomotives, Cars, etc.),
Drexel bldg., Phila., Pa.
Wilson, E. H. & Co. (Locomotives, Coaches,
Rails, etc.), Arcade bldg., Philadelphia, Pa.
Wood, A. M. Co. (Relaying Rails), Arcade
bldg., Phila., Pa.

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(See Excavators, Steam; also Shovels, Steam)

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fold Books), 10th, Clinton & Grand av.,
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Blanks), Chicago, Ill.

Barlow Bros. (Manifold Shipping Blanks),
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Boorum & Pease Co. (Manifold Books), 103
Dnane, New York
Brown, Martin B. & Co. (Railroad Printing,
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Dexter, C. H. & Sons, Windsor Locks, Conn.
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ing Paper), 44 Murray, New York
Eden Tissue Mills (Copying Paper, etc.),
Whippany, N. Y.
Francis & Louttrell Co. (Manifold Books, etc.),
146 William, New York
General Manifold & Printing Co. (Manifests),
Franklin, Pa.
Hall, J. C. & Co. (Manifold Books, etc.), Prov-
idence, R. I.
Hamilton Autographic Register Co. (Manifold
Shipping Blanks), Hamilton, O.
Hampden Glazed Paper & Card Board Co. (Rail-
road Blanks), Holyoke, Mass.
Holyoke Card & Paper Co. (Railroad Blanks),
Springfield, Mass.
King, Albert B. & Co., 105 William, New York
Linden Paper Co. (Copying Paper), Holyoke,
Mass.
Manifold Supplies Co. (Manifold Books, etc.),
55 Warren, New York
Mann, Wm. Co. (Copying Paper, etc.), 60
Maiden la, New York
Martell, A. E. Co. (Manifold Books), 99
Nassau, New York
Monarch Manifold Book Co., Laight & Varick,
New York
N. Y. Blank Book Co., 7 Laight, New York
Pen-Carbon Manifold Co., 35 Warren, New
York
Reyburn Mfg. Co., 22d & Allegheny av, Phila.,
Pa.
R. I. Card Board Co. (Railroad Blanks), Paw-
tucket, R. I.
Rogers Manifold & Carbon Paper Co. (Manifold
Books & Carbon Paper), 75 Maiden la,
New York
Smith, S. G. Co. (Manifold Paper), 14 Park
pl, New York
Springfield Paper Co. (Copying Paper), Rain-
bow, Conn.
Union Mills Paper Mfg. Co. (Copying Paper),
New Hope, Pa.
Ward, John & Son, 98 Cedar, New York
Whitmore, Mfg. Co. (Railroad Blanks), Hol-
yoke, Mass.
Whittelsey, Frank H. (Railroad Manifest Im-
pression Paper, Train Order Blanks, etc.),
Windsor Locks, Conn.

Railroad Supplies

(See Specific Article Wanted; also Rail Mills,
Iron & Steel; also Hardware. Wholesale;
also Mill & Factory Supplies; also Iron
& Steel Manufacturers of Various Kinds;
also Machinery Manufacturers of Various
Kinds)
(For All Other Railroad Specialties Etc., see
Index of Contents)

Railroad Ties

(See Ties, Poles & Posts)

Railroad Ties (Steel)

(See Ties, Steel Railroad)

Railroad Velocipedes

(See Cars, Velocipede)

Railroad Water Station Builders

(See Water Columns or Stations, Railroad)

Railroads (Logging)

(See Railways, Industrial & Portable)

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Sycamore, Ill.

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Cronk & Carrier Mfg. Co., Elmira, N. Y.
Hunt, Helm, Ferris & Co. ("Harvard" Steel),
Lawrence Bros., Sterling, Ill. Harvard, Ill.
Myers, F. E. & Bro., Ashland, O.
National Mfg. Co., Sterling, Ill.
New England Butt Co., Providence, R. I.
Prouty, T. C. Co. (Ltd.), Albion, Mich.
Richards Mfg. Co., Aurora, Ill.
Stowell Mfg. & Foundry Co. (Parlor Door &
Hay Carrier), South Milwaukee, Wis.

Rails (Door)

Bridgeport Brass Co., Bridgeport, Conn.
Kupferle, Jno. C. Foundry Co. (Barn & Door,
Sliding Door, etc.), St. Louis, Mo.
Peters, Jas. & Son (Wrought Iron), 1934 N
Front, Phila., Pa.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Reading Hardware Co., Reading, Pa.
Rome Brass & Copper Co., Rome, N. Y.
Russell & Erwin Mfg. Co., New Britain, Conn.
STANLEY WORKS (Wrought Steel),
New Britain, Conn. (See adv. index &
branch offices, end of book)
Stowell Mfg. & Foundry Co. (Steel), South Mil-
waukee, Wis.
Waterbury Brass Goods Corp'n, Waterbury,
Conn.
Wharton, Wm., Jr. & Co. (Inc.), 25th &
Washington av, Phila., Pa.
Wilcox Mfg. Co., Aurora, Ill.

Rails (Girder & High Tee)

(See also Rail Mills, Iron & Steel)

Cleveland Frog & Crossing Co., West Park,
Ohio
Lorain Steel Co., Penna bldg, Phila., Pa., &
Johnstown, Pa.
Penna Steel Co., Girard bldg, Phila., Pa.

Rails (Hand & Foot)

BIGELOW, CHENEY WIRE WORKS,
Springfield, Mass. (See adv. index, end
of book)
BOLLES, J. E. IRON & WIRE
Works, Detroit, Mich. (See adv. index,
end of book)
City Forge & Iron Works (Andrew Plocher,
Prop.) (Brass), Dayton, O.
Detroit Shipbuilding Co. (Brass Dep't), De-
troit, Mich.
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
Union Equipment & Bronze Co., 1901 Park
Van Dorn Co., Quincy, Ill. av. New York
Western Brass Mfg. Works (Brass & Bronze),
21st & Rockwell, Chicago, Ill.

Rails (Light)

(See Rail Mills, Iron & Steel; also Rails,
Steel)

Rails (Relaying)

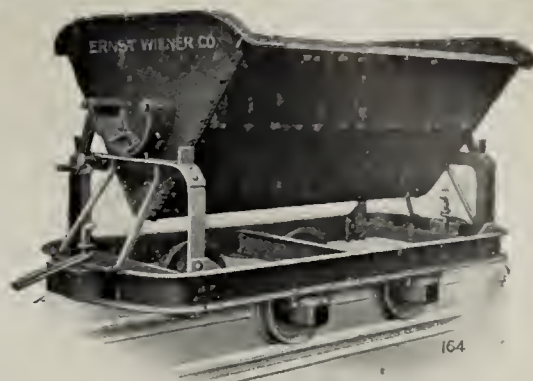
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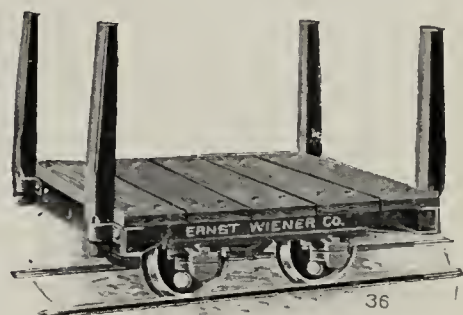


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*Rails (Steel)

(For Mills that Manufacture Steel Rails, see Rail Mills, Iron & Steel)

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KOPPEL, ARTHUR CO. (Jobbers), Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
MARYLAND EQUIPMENT & SUPPLY CO., (Jobbers), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
WALSH SONS & CO. (Dealers), Newark, N. J. (See adv. index, end of book)

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Rails (Steel Renewed)

(See Rail Mills, Iron & Steel, with the Word Renewed following their Name)

*Rails (Street)

MARYLAND EQUIPMENT & SUPPLY CO. (New & Second Hand), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Rails (Tram)

(See Rail Mills, Iron & Steel)

Rails & Hangers (Suspended)

(See Trolleys & Trolley Tracks, Overhead)

Railway Builders (Marine)

(See Marine Railway Builders)

Railway Composite Apparatus

Sandwich Electric Co. ("Sandwich" for Telegraph & Telephone Circuits"),

*Railway Palace Car Spring Hinges

BOMMER SPRING HINGES

257 to 271 Classon av., Brooklyn, New York. (See adv. index, end of book)

Railway Poles

(See Poles, Iron & Steel, Flag & Street; also Ties, Poles & Posts)

Railway Supplies (Electric)

(See also Trolley Line Materials; also Electrical Supplies)

Allison, Giles S. (Cars, Motors & Equipments), 42 B'way, New York
American General Engineering Co., 253 B'way, New York
Anderson, Albert & J. M. Mfg. Co., 287 A, S. Boston, Mass.
Bailey, F. B. & Co., Betz bldg., Phila., Pa.
Barbour-Stockwell Co., Cambridge, Mass.
Bissell, F. Co., Toledo, Ohio
Boston Electric Co., 29 Harrison av., Boston, Mass.
Brookes-Foills Elec. Corp., San Francisco, Cal.
Brown, Harold P. ("Edison-Brown" Plastic Rail Bond), 120 Liberty, New York
BUNNELL, J. H. & CO., Park Pl. & Church, New York. (See adv. index, end of book)
Burnet Co., 121 Maiden la, New York
Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
Columbus Mill & Mine Supply Co., Columbus, O.

Commercial Electrical Supply Co., Pine & 15th, St. Louis, Mo.
Creaghead Engineering Co., Cincinnati, O.
Dallett & Co. (Cars, Motors & Equipments), Harrison bldg., Phila., Pa.
Dayton Mfg. Co., Dayton, O.
Electric Appliance Co., 140 W Jackson boul., Chicago, Ill.

Electric Engineering Co., Minneapolis, Minn.
Electric Railway Equipment Co. (Motors & Equipments, etc.), 31st below Chestnut, Phila., Pa.

Electric Railway Equipment Co. (Motors & Equipments, etc.), 31st below Chestnut, Phila., Pa.

Electric Railway & Mfg. Supply Co., 68 1st, San Francisco, Cal.

Electric Service Supplies Co., 1024 Filbert, Phila., Pa.

Electrical Material Co., Baltimore, Md.

Fitts, F. E. Mfg. & Supply Co., 88 Purchase, Boston, Mass.

Fox Bros. & Co., 126 Lafayette, New York

Fuller & Rifenberick (Mfrs.' Agts.), William-son bldg., Cleveland, O.

Garton, W. R. Co., 118 W Jackson boul., Chicago, Ill.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Handlan-Buck Mfg. Co., St. Louis, Mo.

Hoyt, Frank, Muskegon, Mich.

Johns, H. W.-Manville Co., 100 William, New York

Jones, Jas. Co., Los Angeles, Cal.

Kingsland-Kay-Cook Mfg. Co., Mullanphy & 11th, St. Louis, Mo.

Lees-Williams Co., Pittsburg, Pa.

Long, Ervin G. Co., 50 Church, New York

McCartney, Josiah, Bay City, Mich.

Maryland Railway Supply Co., Continental bldg., Baltimore, Md.

Metal Finishing Co., Union City, Conn.

Morris, Elmer P. Co., 90 Church, New York

Nagel, W. G. Electric Co., Toledo, O.

NUTTALL, R. D. CO. (Trolley Bases, Forks, Wheels, Gears, Pinions, etc.), Fayette & Garrison pl., Pittsburg, Pa. (See adv. index, end of book)

Ohio Brass Co., Mansfield, O.

Pacific Coast Mfg. Co., Los Angeles, Cal.

Pettingell, Andrew Co., Boston, Mass.

Porter Tool & Supply Co. (Mfrs.' Agts.), 100 William, New York

Post-Glover Elec. Co., 314 W 4th, Cincinnati, O.

Railway Equipment & Supply Co., Kansas City, Mo.

Railway Electric Equipment Co. (Cars, Motors & Equipments), Ellicott sq., Buffalo, N. Y.

Ridion, Frank Co. (Of Every Description), Boston

Roberts, H. C. Electric Supply Co., 905 Arch, Philadelphia, Pa.

Sherburne & Co., 53 Oliver, Boston, Mass.

Somers, Fittler & Todd Co., Pittsburg, Pa.

Southern Electric Co., Baltimore, Md.

Traction Equipment Co., 72 Grand av., Brooklyn, N. Y.

Union Electric Co., Terminal-Way, Pittsburg, Pa.

VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)

Watson, John B., Drexel bldg., Phila., Pa.

Wendell & MacDuffie, 50 Church, New York

Wesco Supply Co., St. Louis, Mo.

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Wood, Guilford S. (Largest Dealer in Diaphragms (Car) in U. S.), Great Northern bldg., Chicago, Ill.

Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill.

Works, Harvey, Ill.

Cagney Bros., 74 B'way, New York

Calumet Engineering Works, Harvey, Ill.

CAREY, GEO. H., 1 B'way, New York. (See adv. index, end of book)

Conveying Machinery Co., 120 Liberty, New York

Chicago Crossing Co. (Industrial), Monadnock bldg., Chicago, Ill.

Cleveland Car Co., West Park, O.

Davies, Frank, Hennen bldg., New Orleans, La.

Fox Bros. & Co., 126 Lafayette, New York

G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)

Gregg Co. (Ltd.), Newburgh, N. Y.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Howe Scale Co. of Illinois, 1315 Wabash av., Chicago, Ill.

Hunt, C. W. Co. (Automatic, Cable, etc.), West New Brighton, L. I., N. Y. City

INDIANAPOLIS SWITCH & FROG Co., Springfield, O.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Link Belt Co., W. 39th, cor. Stewart av., Chicago, Ill., & 299 B'way, New York

MARYLAND EQUIPMENT & SUPPLY CO. (New & Second Hand), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Mine & Smelter Supply Co., Denver, Col.

NEW JERSEY FOUNDRY & MACHINE Co., 90 West, New York

Ohio Ceramic Engineering Co., Cleveland, O.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Treadwell, M. H. Co., 90 West, New York

Turl's, John Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.

Union Iron Works, Hoboken, N. J.

Wharton, Wm., Jr., & Co., 25th & Wash'n av., Phila., Pa.

WHITING FOUNDRY EQUIPMENT Co. (for Foundries, etc.), Harvey, Ill. (See adv. index & branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
-COMPANY-

475 Fulton bldg., New York. (See adv. index & branch offices, end of book)

Wonham, Magor & Sanger, 30 Church, New York

Railways (Marine)

(See Dry Docks & Marine Railways)

Railways (Miniature)

(See Locomotives & Railways, Miniature)

Railways (Scenic)

(See Locomotives & Railways, Miniature)

Rake & Tedder Teeth

Akron Machine Co. (Rake Teeth), Akron, O.

American Spiral Spring & Mfg. Co. (Tedder), Pittsburg, Pa.

Cambria Steel Co. (Steel), Arcade bldg., Phila., Pa.

Harrow Spring Co., Kalamazoo, Ill.

Herschel, R. Mfg. Co., Peoria, Ill.

Mason, F. C. & Co., St. Johns, Mich.

Morgan Spring Co., Worcester, Mass.

WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Rakes (Asphalt or Tar)

American Fork & Hoe Co. (Steel), Cleveland, Ohio

Contractors' Tool Co., 704 Arch, Phila., Pa.

Rakes (Drag)

Poster & Williams Mfg. Co., Racine, Wis.

Patterson, D. S. & Son, Brookfield, Vt.

Railway Transfer Tables

(See Turn & Transfer Tables)

Railways (Gravity)

Conveying Machinery Co., 120 Liberty, New York

Railways (Incline)

(See Stairways, Moving)

Railways (Industrial & Portable)

AMERICAN CONCRETE CO. (For Concrete Plants) 80 William, New York. (See adv. index, end of book)

ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N E, Cleveland, O. (See adv. index, end of book)

Rakes (Garden or Lawn, Etc.)

Alexander & Perkins, Sunapee, N. H.
 American Fork & Hoe Co., Cleveland, O.
 Bartlett, L. D. & Son Co., South Tamworth, N. H.
 Benton Mfg. Co. (Malleable Iron, Garden), Charlotte, Mich.
 Brown, Hinman & Huntington Co. (Steel & Malleable Iron Road, Potato, etc.), Memphis, Tenn.
 Champion Lawn Rake Co., Canton, O.
 Cronk & Carrier Mfg. Co. (Brace Wrought Steel & Malleable Iron), Elmira, N. Y.
 Derby & Ball, Bellows Falls, Vt.
 Geneva Tool Co., Geneva, O.
 Gibbs Mfg. Co., Canton, O.
 Harriman Hoe & Tool Co., Harriman, Tenn.
 Iowa Farming Tool Co., Fort Madison, Iowa
 Kohler, F. E., & Co. (Malleable or Steel), Canton, Ohio
 Lacey, Elmer B., Union, N. Y.
 Ney Mfg. Co. (Automatic Self-Cleaning Lawn), Canton, O.
 Ney, V. L. Co. ("Champion" Lawn Rakes), Canton, O.
 Piqua Handle & Mfg. Co. (Braced Malleable Iron, Garden & "Ole Olsen" Wood Lawn), Piqua, O.
 Sleeper, B. R., Sunapee, N. H.
 Swineford, G. A., Co. ("King," "Warren," "Star" Wire Automatic, etc.), Canton, O.
 Union Fork & Hoe Co. (Bow & Flat Head Steel), Columbus, O.
 Union Furnace Mfg. Co. (Malleable Iron), Union Furnace, Pa.
 Wellman, H. E., Westminster West, Vt.
 Wheeling Hinge Co., Wheeling, W. Va.

Rakes (Gas Retort)

American Fork & Hoe Co., Cleveland, O.

Rakes (Hand, Hay)

Benton Mfg. Co., Charlotte, Mich.
 Burton Handle Co., Burton, O.
 Garfield, D. M., Tyringham, Mass.
 Geneva Tool Co., Geneva, O.
 Iowa Farming Tool Co., Fort Madison, Ia.
 Rogers Rake Co., New Hartford, Conn.
 Rugg Mfg. Co. (Also Drag), Greenfield, Mass.
 Swineford, G. A., Co., Canton, O.
 Thomas Mfg. Co., Springfield, O.
 Union Fork & Hoe Co. (Bow & Flat Head Steel), Columbus, Ohio

Rakes (Revolving, Hay)

Hughes & Smythe, Galena, O.
 Ohio Rake Co., Dayton, O.
 Sterling Mfg. Co., Sterling, Ill.
 Wayne Works, Richmond, Ind.

Rakes (Side Delivery, Hay)

Chambers, Bering & Quinlan Co., Decatur, Ill.
 Dain Mfg. Co., Ottumwa, Iowa
 Deere & Mansur Co., Moline, Ill.
 Hocking Valley Mfg. Co., Lancaster, O.
 International Harvester Co. of America, Chicago, Ill., & Auburn, N. Y.
 La Crosse Hay Tool Co., Ottumwa, Iowa
 Ohio Rake Co., Dayton, O.
 Sandwich Mfg. Co., Sandwich, Ill.
 Sterling Mfg. Co., Sterling, Ill.
 Thomas Mfg. Co., Springfield, O.

Rakes (Stacker for Threshers)

Frick Co., Waynesboro, Pa.
 Merrlam, I. Z., Whitewater, Wis.
 Port Huron Engine & Thresher Co., Port Huron, Mich.

Rakes (Stalk)

Brown, Geo. W. & Co., Galesburg, Ill.
 Peoria Drill & Seeder Co. ("Glendale"), Peoria, Ill.
 Selby, Starr & Co., Peoria, Ill.
 Sheer, Eugene, Lincoln, Ill.

Rakes (Sulky, Hay)

Acme Harvester Co., Peoria, Ill.
 Adiance, Platt & Co. (Steel Wheels), Poughkeepsie, N. Y.
 Albright, J. Hudson, Mifflinburg, Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Aultman, Miller, Buckeye Co., Akron, O.
 Bateman Mfg. Co. ("New York Champion"), Grenloch, N. Y.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.

Bradley, David Mfg. Co., Bradley, Ill.
 Brown, Geo. W. & Co., Galesburg, Ill.
 Chapinville Wheel Co., Poughkeepsie, N. Y.
 Clipper Chilled Plow Co., Elmira, N. Y.
 Comstock, Geo. S. ("Hauck," "Novelty"), Mechanicsburg, Pa.

Deere & Mansur Co., Moline, Ill.
 Deucher, H. P. Co., Hamilton, O.
 Emerson Mfg. Co., Rockford, Ill.
 Emplre Drill Co., Shortsville, N. Y.
 Farquhar, A. B. Co., York, Pa.
 Fleming & Sons' Mfg. Co., Huntsville, Mo.
 Fond du Lac Implement Co., Fond du Lac, Wis.
 Gale Mfg. Co., Albion, Mich.
 Grand Detour Plow Co., Dixon, Ill.
 Hocking Valley Mfg. Co., Lancaster, O.
 Howell, R. R. & Co., Minneapolis, Minn.
 International Harvester Co. of America (Self & Hand Dump), Chicago, Ill.
 Osborne Plant, Auburn, N. Y.

Johnston Harvester Co., Batavia, Ill.
 Long & Allstatter Co. (Hand or Horse Dump), Hamilton, O.
 Messinger Mfg. Co. ("Steel King" Self-Dumping), Tatamy, Pa.

Moline Plow Co., Moline, Ill.
 Northwestern Steel & Iron Works, Eau Claire, Wis.
 Ohio Rake Co., Dayton, O.
 Patten & Stafford Co. ("New York Champion"), Canastota, N. Y.
 Plattner Implement Co., Denver, Colo.
 Racine-Sattley Co. (Self & Hand Dump), Springfield, Ill.

Rockford Mfg. Co. ("Ellwood"), Rockford, Ill.
 Richardson Mfg. Co., Worcester, Mass.
 Rowell, J. S., Mfg. Co. (Self Dump), Beaver Dam, Wis.

Rnde Bros. Mfg. Co., Liberty, Ind.
 Smith & Sons Mfg. Co. (2 & 3-Wheel Sweep), Kansas City, Mo.

Sterling Mfg. Co., Sterling, Ill.
 Thomas Mfg. Co., Springfield, O.
 Thompson, J. & Sons Mfg. Co., Beloit, Wis.
 Van Brunt Mfg. Co., Horicon, Wis.
 Warder, Bnshnell & Glessner Co., Springfield, O.
 Wiard Plow Co., Batavia, N. Y.
 Williams Bros. (Self & Hand Dumping), Ithaca, N. Y.

Wood, W. A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

Rakes (Sweep)

Acme Harvester Co. (Sweep), Peoria, Ill.
 Anderson Company (Of Every Description), St. Paul, Minn.

Barley, Thos. K., Sedalia, Mo.
 Benicia Agricultural Works (Buck Rake), Benicia, Cal.

Dain Mfg. Co. (Automatic Stackers), Ottumwa, Ia.
 Eureka Mfg. Co., Chariton, Ia.

Famous Mfg. Co. (Peerless Sweep, Champion Buck), East Chicago, Ind.
 Fleming & Sons Mfg. Co., Huntsville, Mo.

Foster & Williams Mfg. Co. (Balance Pivot Wheel Sweep), Racine, Wis.
 Grand Detour Plow Co., Dixon, Ill.

Howell, R. R. & Co. (Stacker Rake), Minneapolis, Minn.
 International Harvester Co. of America, Chicago, Ill.
 Osborne Plant, Auburn, N. Y.

Jackson, Byron Machine Works (Sweep), San Francisco, Cal.
 Jenkins Hay Rake & Stacker Co., Chillicothe, Mo.

Kansas City Hay Press Co. (Stacker & Rake), Kansas City, Mo.

Louden Machinery Co. (Rickers), Fairfield, Ia.
 McCall Mfg. Co., Moberly, Mo.

Martin-Anderson Co., Omaha, Neb.
 Plattner Implement Co., Denver, Colo.

Porter, J. E. Co. (Rickers), Ottawa, Ill.
 Tait, F. B. Mfg. Co. (Single Tongue), Decatur, Ill.

Rammers (Foundry)

(See also Pneumatic Sand Rammers)

Barnett, Oscar F'dry Co. (Bench & Floor), Newark, N. J.
 Brown & Sharpe Mfg. Co. (Rubber Tipped), Providence, R. I.

Hellenberg & Son (Moulders' Bench), Coldwater, Mich.
 HILL & GRIFFITH CO., Cincinnati, O.
 (See adv. index, end of book)

OSBORN MFG. CO., 5401 Hamilton av., N. E., Cleveland, O. (See adv. index, end of book)

Piqua Handle & Mfg. Co. (Also Moulders' Bench Rammers), Piqua, O.

Sandusky Tool Co., Sandusky, O.

Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.
 Woodstock Hardwood & Spool Mfg. Co. (Moulders' Wooden Rammers), Charleston, S. C.

Rammers (Pavers')

Stortz, John, & Son (Stone Paving, etc.), 210 Vine, Phila., Pa.

Rammers (Sand)

(See also Pneumatic Sand Rammers)

Pollard, Jos. G. (Cast Iron Ash Handle), 141 Raymond, Brooklyn, N. Y.

Range Fenders

Eastwood Wire Mfg. Co., Belleville, N. J.

Ranges (Acetylene)

(See Stoves, Acetylene)

Ranges (French Cooking)

(See Cooking Apparatus)

Ranges (Galley)

(See Ranges, Yacht)

Ranges (Gas)

(See Stoves, Heaters & Ranges, Gas)

Ranges (Kettle)

Weaver Mfg. Co. ("Perfection"), New Oxford, Pa.

Ranges (Portable & Stationary)

(See Stove Manufacturers; also Ranges, Steel; also Cooking Apparatus)

Ranges (Steel)

(See also Cooking Apparatus)

Allen Mfg. Co. ("Princess"), Nashville, Tenn.
 American Stove Co. ("Quick Meal," "Jewell"), 414 N 6th, St. Louis, Mo.

American Range & Foundry Co., Cleveland, O.
 Anchor Stove & Range Co., New Albany, Ind.
 Bonnet-Nance Stove Co., Chicago Heights, Ill.

Born Steel Range Co., Cleveland, Ohio
 Bramhall, Deane Co., 264 Water, New York
 Bramhall Range Co., 51 Market, Chicago, Ill.

Bridgeford & Co. (Wrought Steel), Louisville, Ky.
 Buckstaff Bros. Mfg. Co., Lincoln, Neb.

Burton Range Co., 115 W 5th, Cincinnati, O.
 Carmichael Range Co., 195 Kinzie, Chicago, Ill.
 Century Post Co., Tecumseh, Mich.

Clad, V. & Sons, 239 S 12th, Phila., Pa.
 Cohen Stove & Range Co., Florence, Ala.
 Comstock-Castle Stove Co., Quincy, Ill.

Conway Steel Range Co., Bellevue, O.
 Cranc, W. M. Co. ("Vnican" "Perfect"), 16 W 32d, New York

Cribben & Sexton Co., 52 Erie, Chicago, Ill.
DUPARQUET, HUOT & MONEUSE CO., 43 Wooster, New York. (See adv. index & branch offices, end of book)

Dauntless Mfg. Co., Beaver Dam, Wis.
 Eclipse Stove Co., Mansfield, O.
 Excelsior Stove & Mfg. Co. (Wrought Steel), Quincy, Ill.

Faultless Stove Works (Malleable Iron), St. Charles, Ill.
 Fischer Leaf Co., 1438 High av., Louisville, Ky.

Fischer, Wm. G., Stove & Range Co., 223 W. 3rd, Cincinnati, O.
 Franke, H. Steel Range Co., 1911 Harvard, N'gh, Cleveland, O.

Globe Stove & Range Co., Kokoma, Ind.
 Gohman Bros. & Kahler Co., New Albany, Ind.
 Hall Bros. Co., Lincoln, Neb.

Hammock Steel Range Co., Knoxville, Tenn.
 Hess, Snyder Co. ("Boomer"), Massillon, O.
 Home Stove Co., Indianapolis, Ind.

Household Stove Co. ("Ideal"), 1935 Wentworth av., Chicago, Ill.
 Hutchinson Bros., Baltimore, Md.

Ils, John G. & Co., 814 Kearny, San Francisco, Cal.

Independent Stove Co., Owosso, Mich.
 Kling Stove & Range Co., Sheffield, Ala.

Ley, Jno. P., 244 Water, New York
 Los Angeles Stove Co., Los Angeles, Cal.
 Lotze's, A. Sons & Co., Cincinnati, O.

M. & D. Range Co., 100 Lake av., Chicago, Ill.
 Mahoney, Daniel, & Sons, 17 Main, Buffalo, N. Y.
 Majestic Mfg. Co., St. Louis, Mo.
 Malleable Steel Range Mfg. Co., South Bend, Ind.
 Michigan Stove Co. ("Garland"), Detroit, Mich.
 Miller, W. Range & Furnace Co. (Portable), Cincinnati, O.
 Monitor Stove & Range Co., Cincinnati, O.
 Peninsular Stove Co., Detroit, Mich.
 Portsmouth Stove & Range Co., Portsmouth, Ohio
 Reading Stove Works ("Cheerful Sunshine," "Domestic Sunshine"), Reading, Pa.
 Rubel & Co., 116 E. Lake, Chicago, Ill.
 Schill Bros. Co., Crestline, O.
 Sexton, S. B., Stove & Mfg. Co., 7 S. Gay, Baltimore, Md.
 Sheffield Steel Range & Stove Co., Sheffield, Ala.
 Sheppard, Isaac A. & Co., 1801 N 4th, Philadelphia, Pa.
 Standard Foundry & Mfg. Co., Cleveland, O.
 Star Shovel & Range Co., Vincennes, Ind.
 Stearnes Steel Range Co., 188 Lake, Chicago, Ill.
 Toledo Stove & Range Co. ("Gem"), Toledo, O.
 Taplin-Rice-Clerkin Co. ("Climax"), Akron, O.
 Van. John, Range Co. (For Families, Hotels & Institutions), Cincinnati, O.
 Walker & Pratt Mfg. Co., 31 Union, Boston, Mass.
 Warren Stove Co., Warren, O.
 Wilson Steel Range Co., Belleville, Ill.
 Wrought Iron Range Co., St. Louis, Mo.

*Ranges (Yacht)

DUPARQUET, HUOT & MONEUSE Co. (Steel), 43 Wooster, New York. (See adv. index & branch offices, end of book)

Rapping Plates & Lifting Screws

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Timmis & Olissold, Boundbrook, N. J.

Rasps (Horse)

(See also File & Rasp Manufacturers)

Heller Bros. Co., Newark, N. J.
 Nicholson File Co., Providence, R. I.
 Westfall & Co. ("Westfall"), Milwaukee, Wis.

*Ratchet Attachments

ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)

Ratchet Stocks

(See Stocks & Dies)

Ratchets

(See Drills, Ratchet)

Ratchets (Deck Sash)

Adams & Westlake Co., Ontario c N Franklin, Chicago, Ill.

Ratchets (Fence)

Cyclone Fence Co. ("Cyclone"), Cleveland, O.
 Denning Wire Fence Co. ("U.-S."), Cedar Rapids, Ia.
 Eureka Casting & Machine Co. ("Eureka"), Dayton, O.
 Gem Wire Fence Co. (Malleable Iron), Pontiac, Mich.
 Hardware & Woodenware Mfg. Co. ("Brighton"), 693 Broadway, New York
 Indiana Anchor Fence Co. ("Automatic"), South Bend, Ind.
 Kokomo Fence Machine Co., Kokomo, Ind.
 Leader Fence Machine Mfg. Co. ("Leader"), St. Charles, Ill.
 New England Anchor Fence Co., Worcester, Mass.
 Novelty Mfg. Co. (Steel), Jackson, Mich.
 Schriver, O. P. & Co. ("I. X. L." Wire Fence), 208 Elm, Cincinnati, O.
 Universal Ratchet Co. ("Universal" Wire Fence Ratchet & Tightener), Detroit, Mich.

Ratchets (Packer)

(See Drills, Ratchet)

Rattan Seat Covering (Canvas Lined)

Hale & Kilburn Mfg. Co., 48 N 6th, Phila, Pa.

Rattan & Reed Works

American Rattan & Reed Mfg Co. (Car Seating, Webbing, etc.), Kingsland & Norman avs, Brooklyn, N. Y.
 Hartshorn, C. H., Gardner, Mass.
 Heywood Bros. & Wakefield Co., Gardner, Mass.
 Jenkins-Phipps Co., Wakefield, Mass.
 Lloyd Mfg. Co. (Rattan & Reed Chairs), Minneapolis, Minn.
 Wakefield Mfg. Co. (Willow Goods Also), Wakefield, Mass.

Rattans, Reeds & Chair Cane

American Rattan & Reed Mfg. Co. (also Rattan Webbing, etc.), Norman & Kingsland av, Brooklyn, N. Y.
 Gerda, Otto Co., 83 Murray, New York.

Rattlers (Flue)

Mann-McCann Co. ("Westmark"), Fisher bldg, Chicago, Ill.

*Rattlers (Foundry)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index and branch offices, end of book)

Rattlers (Nail)

Miller's, H. J. Sons, Bridgewater, Mass.
 Perkins, Henry Co., Bridgewater, Miss.

Rawbone (Boiled)

Cooper's, Peter Glue Factory, 13 Burling slip, New York

Rawbone (Granulated)

(See also Bone, Black)

Armour Fertilizer Works, 205 LaSalle, Chicago, Ill.
 Listers Agricultural Chemical Works, ft. W 39th, New York
 Rogers & Hubbard Co., Middletown, Conn.
 Taylor, Geo. F., Co., 80 Pine, New York
 York Chemical Works, York, Pa.

Razor Mfrs.

Andreson, Alfred, & Co., Minneapolis, Minn.
 Barnesley Bros. Cutlery Co., Monett, Minn.
 Brown Razor Co., Little Valley, N. Y.
 Buck Bros., Milbury, Conn.
 Buck Edge Tool Co., Chas. D., Milbury, Conn.
 Canton Cutlery Co., Canton, O.
 Case, John D., Sons Co. (Folding), Kane, Pa.
 Case & Son, W. R., Bradford, Pa.
 Challenge Cutlery Corp'n, Bridgeport, Conn.
 Claiberg & Co., F. A., 27 Park pl, New York
 Clauss Shear Co., Fremont, O.
 Compton Shear Co., W. H., Newark, N. J.
 Empire Knife Co., West Winsted, Conn.
 Geneva Cutlery Co., Geneva, N. Y.
 Hessenbrush, H., Philadelphia, Pa.
 International Cutlery Co., Fremont, O.
 Jackson Shear & Razor Co., Fremont, O.
 Kastor & Bros., Adolph, 109 Duane, New York
 Korn Razor Mfg. Co., Geo., Little Valley, N. Y.
 Novelty Cutlery Co., Canton, O.
 Radiumite Co., 1545 W. Lake, Chicago, Ill.
 Robeson Cutlery Co., Rochester, N. Y.
 Schatt & Morgan Cutlery Co., Titusville, Pa.
 Schrader Cutlery Co., Walden, N. Y.
 Smith & Hemenway Co., 108 Duane, New York
 Southington Cutlery Co., Southington, Conn.
 Sperry & Alexander Co., 309 Broadway, New York
 Standard Razor & Strop Co., Little Valley, Teagarden & Shumate, Austin, Tex.
 Torrey, J. R., Co., Worcester, Mass.
 Union Razor Co., Tidoute, Pa.
 Vanator Edge Tool Works, Grand Ledge, Mich.
 Wallace & Sons Mfg. Co., Wallingford, Conn.
 Waterville Cutlery Co., Waterville, Conn.
 Wiebusch & Hilger, 9 Murray, New York
 Wiss & Sons Co., J., Newark, N. J.
 Witte, Alexis, Cutlery Co., 81 Warren, New York

Razor Mfrs. (Safety)

American Safety Razor Co. ("Ever Ready"), 320 Broadway, New York
 Arnold Safety Razor Co. (Inc.) ("Arnold"), Reading, Pa.
 Auto Strop Safety Razor Co., 345 Fifth av., New York
 Burham Safety Razor Co. (Inc.), ("Burham"), Flatiron bldg, New York
 Christy Co., R. J., Fremont, Ohio
 Clauss Shear Co. ("Clauss"), Fremont, O.
 Crescent-Fremont Metal Mfg. Co., Fremont, Ohio
 Curly, J., & Bro., 318 Broadway, New York
 Fremont Metal & Mfg. Co., Toledo, Ohio
 Gem Cutlery Co., 34 Reade, New York
 Gillette Sales Co. ("Gillette"), Times bldg., New York
 Hart Mfg. Co. ("Hart's" Pocket), Bristol, Conn.
 Herbrand Co., Fremont, Ohio
 Kampfe Bros. ("Star"), 8 Reade, New York
 Kirtland Bros. & Co., 90 Chambers, New York
 Korn, Geo. W., Razor Mfg. Co. ("Real"), Little Valley, N. Y.
 Pall Mall Electric Ass'n, 870 Broadway, New York
 Reichardt & Co., F. A., 63 Barclay, New York
 Shrp-Shavr Razor Co. ("Shrp-Shavr"), 108 Duane, New York
 Silberstein, A. L., 476 Broadway, New York
 Southington Cutlery Co., Southington, Conn.
 United States Safety Razor Co., Adrian, Mich.
 Ward Safety Razor Co. ("Ward"), 356 Dearborn, Chicago, Ill.
 Weiss, L. S. ("Shavezy"), 286 Graham av., Brooklyn, N. Y.

Razzle Dazzles

Herschell-Spillman Co., No. Tonawanda, N. Y.

Reamers

(Under this Heading see Sub-classifications; see also Taps, Various Kinds)
 Buck Bros. (Sq., Octagon & Half Round), Mill-Buck, Chas., Millbury, Mass.
 Butterfield & Co., Derby Line, Vt.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Chicago Screw Co. (Taper Pin), 519 Homan av, Chicago, Ill.
 Cincinnati Screw & Tap Co., Twilight, O.
 CLEVELAND TWIST DRILL CO., Lake-side av. & 49th, Cleveland, O. (See adv. index, end of book)
 Clough, R. M., Tolland, Conn.
 Detroit Twist Drill Co., Detroit, Mich.
 Economical Tool Co., Milwaukee, Wis.
 Gisholt Machine Co. ("Gisholt," Inserted Blade, "Solid" Adjustable Arbors), Madison, Wis.
 Kelly Tool Co. (Heavy Body Cylinder), Cleveland, O.
 King, J. M. Co. (Inc.), Waterford, N. Y.
 Lincoln-Williams Twist Drill Co., Taunton, Mass.
 Lord, L. L. Co., Meadville, Pa.

Hendricks' Commercial Register

is not a Catalog of Advertisers alone, but a Complete Register of the manufacturers and jobbers in every line of trade that comes within the scope of the work.

McCrosky Reamer Co. (Universal), Meadville, Pa.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)

National Machine Tool Co., Cincinnati, O.
 National Twist Drill & Tool Co., Detroit, Mich.
 New Process Twist Drill Co. (Hot Forged), Taunton, Mass.

Norton Mfg. Co., Chester, Conn.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Polk, A. J. & Son, Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Putnam Machine Co., Fitchburg, Mass.
 Rogers, John M. Works, Gloucester City, N. J.

Standard Railway Equipment Co., Nat'l Bank of Commerce, St. Louis, Mo.
 Standard Tool Co., Cleveland, O.

Three Rivers Tool Co. ("Matthews," High Speed), Three Rivers, Mich.
 Tuck Mfg. Co., Brockton, Mass.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiedeke, Gustave & Co. (Rivet Hole & Flue), Dayton, O.

Wiley & Russell Mfg. Co., Greenfield, Mass.

Reamers (Adjustable)

American Axe & Tool Co., Glassport, Pa.
CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Clough, R. M. (Shell & Hand), Tolland, Conn.
 Kelly, P. J., Elizabeth, N. J.

Lapointe Machine Tool Co., Hudson, Mass.
 McCroskey Reamer Co. (Inc.), Meadville, Pa.

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)

Rogers, John M. Works, Gloucester City, N. J.

Schellenbach-Hunt Tool Co. ("Universal" Machine), 14th & Plum, Cincinnati, O.

Smith, Wm. J. Co. ("Smith" One-Lock), New Haven, Conn.

Standard Tool Co., Cleveland, O.

Reamers (Bibb & Bibb Seat)

Lord, L. L. Co. ("Universal," for Cocks, Bibbs, etc.), Meadville, Pa.

Reamers (Bit Brace)

Brubacker, W. L. & Bros. (Taper), Millersburg, Pa.

Detroit Twist Drill Co., Detroit, Mich.
 Holroyd & Co., Waterford, N. Y.

Kraeuter & Co., 577 18th av, Newark, N. J.
 Mayhew, H. H. Co., Shelburne Falls, Mass.

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National" Taper & Fluted), Detroit, Mich.

Reece, E. F., Co., Greenfield, Mass.

Polk, A. J. & Son, Millersburg, Pa.
 Standard Tool Co., Cleveland, O.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Reamers (Bridge)

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Lincoln-Williams Twist Drill Co., Taunton, Mass.

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National"), Detroit, Mich.

WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Green River," "Taper"), Greenfield, Mass.

Reamers (Burring)

Lord, L. L. Co. (Spiral Fluted), Meadville, Pa.
 Reece, E. F. Co., Greenfield, Mass.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Reamers (Center)

American Die & Tool Co., Reading, Pa.
 Card, S. W. Mfg. Co., Mansfield, Mass.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Detroit Twist Drill Co., Detroit, Mich.
MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co., Detroit, Mich.
 Pratt & Whitney Co., Hartford, Conn.

Reece, E. F. Co., Greenfield, Mass.
 Schellenbach-Hunt Tool Co. ("Universal" Adjustable Machine), 14th & Plum, Cincinnati, O.

Standard Tool Co., Central av & P. Ry., Cleveland, O.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Reamers (Chucking)

Brubaker, W. L. & Bros. (Rose Fluted), Millersburg, Pa.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Detroit Twist Drill Co. (Also Rose Chucking), Detroit, Mich.

Lincoln-Williams Twist Drill Co., Taunton, Mass.

MORSE TWIST DRILL & MACHINE
 Co. (Fluted, Rose & Three Groove), New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National" Rose Fluted), Detroit, Mich.

New Process Twist Drill Co. (Four Groove), Taunton, Mass.

Polk, A. J. & Son (Fluted, etc.), Millersburg, Pa.

Pratt & Whitney Co., Hartford, Conn.

Rogers, John M. Works, Gloucester City, N. J.
 Standard Tool Co., Cleveland, O.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Green River" Spiral Fluted), Greenfield, Mass.

Reamers (Conduit Pipe)

Sprague Electric Co., 527 W 34th, New York
 Steel City Electric Co. ("Thompson"), Pittsburgh, Pa.

*Reamers (Electric)

VAN DORN ELECTRIC & MFG. CO. (Portable), 2694 E 79th, Cleveland, O. (See adv. index, end of book)

Reamers (Expansion)

Chadwick & Trefethen ("Critchey's"), Portsmouth, N. H.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Clough, R. M. (Chucking), Tolland, Conn.
 Economical Tool Co., Milwaukee, Wis.

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)

Standard Tool Co., Cleveland, O.

Reamers (Hand)

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Clough, R. M., Tolland, Conn.
 Detroit Twist Drill Co., Detroit, Mich.

Kraeuter & Co., 577 18th av, Newark, N. J.
 McCroskey Reamer Co. (Inc.), Meadville, Pa.

MORSE TWIST DRILL & MACHINE
 Co., New Bedford, Mass. (See adv. index, end of book)

National Machine Tool Co., 208 Lawrence, Cincinnati, O.

Polk, A. J. & Son, Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.

Shepard Lathe Co., 129 W 2d, Cincinnati, O.
 Standard Tool Co., Central av & P. Ry., Cleveland, O.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

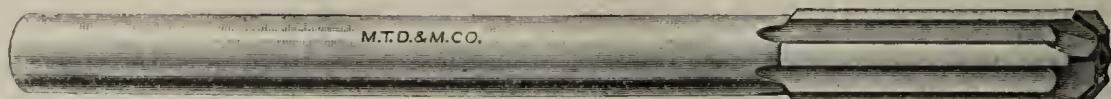
Wiley & Russell Mfg. Co., Greenfield, Mass.

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Morse Twist Drill & Machine Company
 NEW BEDFORD, MASS., U. S. A.

***Reamers (High Speed)**

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Reamers (Locomotive)

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Green River" Taper), Greenfield, Mass.

***Reamers (Morse Taper)**

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Reamers or Tap Borers (Lead Pipe)

(See also Borers, Tap)

BERNZ, OTTO, S. 13th & S. Orange av, Newark, N. J. (See adv. index, end of book)

Enterprise Mfg. Co., 3d & Dauphine, Phila., Pa.

Lowentraut, P. Mfg. Co., Newark, N. J.
Osborne, C. S. & Co. ("C. S. O. & C."), Harrison, N. J.

Reamers (Pipe)

(See Taps & Reamers, Pipe)

Reamers (Pneumatic)

(See Pneumatic Reaming & Tapping Drills)

Reamers (Rivet Hole)

American Die & Tool Co., Reading, Pa.
Wiedeke, Gustave & Co., 1837 E Richard, Dayton, O.

Reamers (Shell)

Brubaker, W. L. & Bros., Millersburg, Pa.
CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Clough, R. M., Tolland, Conn.
Detroit Twist Drill Co. (Also Rose Shell), Detroit, Mich.

McCroskey Reamer Co. (Inc.), Meadville, Pa.

MORSE TWIST DRILL & MACHINE CO. (Adjustable & Rose), New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National" Fluted), Detroit, Mich.

Polk, A. J. & Son, Millersburg, Pa.

Pratt & Whitney Co., Hartford, Conn.

Putnam Machine Co., Fitchburg, Mass.

Standard Tool Co., Cleveland, O.

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Green River" Spiral Fluted), Greenfield, Mass.

***Reamers (Solid)**

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Reamers (Square)

Buck Bros., Millbury, Mass.

Jennings, C. E. & Co., 42 Murray, New York. Works: Chester, Conn.

Tuck Mfg. Co. (Also Half Round), Brockton, Mass.

Vaughn & Bushnell Mfg. Co., 875 W Carroll av, Chicago, Ill.

Reamers (Taper)

American Die & Tool Co., Reading, Pa.

Anthony Screw Co. (Taper Pin), Worcester, Mass.

Brown & Sharpe Mfg. Co. ("Standard"), Providence, R. I.

Brubaker, W. L. & Bros., Millersburg, Pa.

Butterfield & Co., Derby Line, Vt.

Chicago Screw Co. (Taper Pin), 519 Homan av, Chicago, Ill.

Cincinnati Screw & Tap Co. (Pin), Twightwee, O.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Corbin Screw Corporation (Pin), New Britain, Conn.

Detroit Twist Drill Co. (Also Taper Pin), Detroit, Mich.

Holroyd & Co., Waterford, N. Y.

Lord, L. L. Co. (For Bit Brace Taper Reamer & Ratchet Combination, also Spiral Fluted), Meadville, Pa.

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

National Twist Drill & Tool Co. ("National" Taper Pin, etc.), Detroit, Mich.

Polk, A. J. & Son, Millersburg, Pa.

Pratt & Whitney Co., Hartford, Conn.

Rogers, John M. Works (Solid & Adjustable), Gloucester City, N. J.

Standard Tool Co., Cleveland, O.

Stow Flexible Shaft Co. (Long Taper), N 26th & Buttonwood, Phila., Pa.

Syracuse Twist Drill Co. (Square), Syracuse, N. Y.

Terry & Tench Co. (Inc) (For Bridge Builders), Lexington av & 131st, New York

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiedeke, Gustav & Co. (Rivet Hole, One-Half Taper & One-Fourth Straight & Shank), Dayton, O.

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Reamers (Valve Reseating)

Lord, L. L. Co. ("Lord"), Meadville, Pa.

Receptacles (Ordinary & Sign)

(See also Plugs, Attachment; also Sockets)

Bryant Electric Co., Bridgeport, Conn.

Crouse-Hinds Co. ("Norbitt"), Syracuse, N. Y.

Electric Motor & Equipment Co. ("Brewster-Universal"), 13 Beaver, Newark, N. J.
Freeman, E. H. Electric Co. ("Russell," Sign, Porcelain for Metal Faced Signs), Trenton, N. J.

GENERAL ELECTRIC CO., Schenectady, N. Y. & 30 Church, New York. (See adv. index & branch offices, end of book)

HART MFG. CO. ("Diamond H"), 103 Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)

Hubbell, Harvey (Inc.) (Floor), Bridgeport, Conn.

Marshall Elec. Mfg. Co. (Flush), Boston, Mass.

Mercer Electric Mfg. Co., Trenton, N. J.

Paiste, H. T. Co. ("Fielding"), 32d & Arch, Phila., Pa.

Pass & Seymour ("P. & S." Waterproof, etc.), Solvay, N. Y.

Perkins Electric Switch Mfg. Co., Bridgeport, Conn.

Peru Electric Mfg. Co., Peru, Ind.

Stanley & Patterson (Newcode), 23 Murray, New York

Tregoning Electric Mfg. Co., Cleveland, O.

Trumbull Electric Mfg. Co., Plainville, Conn.

Weber Electric Co., 131 State, Boston, Mass.

Weeks, Nelson, 227 William, New York

Yost Electric Mfg. Co. (Sign & Cleat), Toledo, Ohio

Record Holders (Wire Phonograph)

Stanley & Paterson, 23 Murray, New York

Syracuse Wire Works, Syracuse, N. Y.

Recorders (Cash)

Hough Cash Recorder Co. ("Security"), Indian Orchard, Mass.

Recorders (Moscrop, Continuous Speed)

Ashcroft Mfg. Co., The, (For Steam, Electric, Cable, Engine & Water Motors), 85 Liberty, New York

Recorders (Pressure & Speed)

Central Laboratory Supply Co. ("Vawter" Speed), La Fayette, Ind.

Du Vivier, Ernest H., 30 Church, New York

Schaeffer & Brudenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

Uehling Instrument Co., Passaic, N. J.

Recorders (Railway Speed)

Chicago Pneumatic Toll Co., Fisher bldg, Chicago, Ill.

Venango Mfg. Co., Franklin, Pa.

Recorders (Water Level)

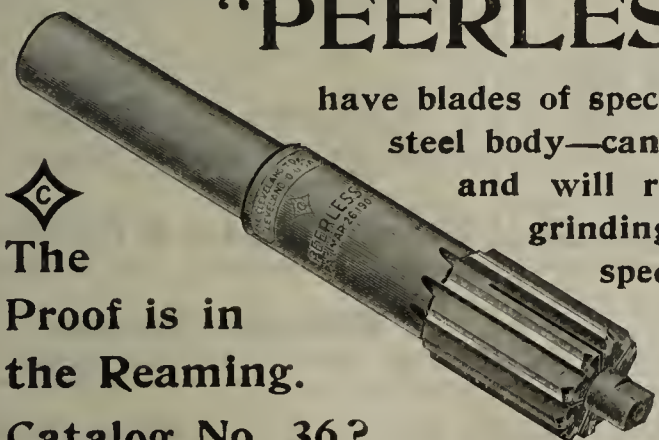
Du Vivier, Ernest H., 30 Church, New York

Uehling Instrument Co., Passaic, N. J.

Rectifiers (For Changing Alternating to Direct Current)

Churcher Electric & Mfg. Co., Cincinnati, O.

Electrical & Mechanical Development Co. ("Hickley"), Asbury Park, N. J.



"PEERLESS" HIGH SPEED REAMERS

have blades of specially selected high speed steel solidly joined to a soft steel body—can be run at double the speed of carbon steel reamers and will ream two or three times as many holes without grinding—costs you only half as much as other solid high speed reamers.

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GENERAL ELECTRIC CO. ("Mercury Arc"), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Ruprecht Electrical Co., Cleveland, O.
Sirch Electrical & Testing Laboratories, Los Angeles, Cal.

WESTINGHOUSE ELEC. & MFG. CO. ("Cooper" Hewitt"), Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Rectifiers (Mercury Arc)

GENERAL ELECTRIC CO. (for Changing Alternating Current to Direct Current), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

*Red Lead (Enamellers')

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

Reds (Venetian)

Hanna & Andres Mfg. Co. (English), Chicago, Ill.

Herrmann, Morris & Co., 68 William, New York

Macneal's Varnish & Color Works (American & English), Baltimore, Md.

Mepharm, Geo. S. & Co., East St. Louis, Ill.

Smith, J. Lee, & Co., 59 Frankfort, New York

Reducing Wheels

(See also Indicators; also Planimeters)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

Ashcroft Mfg. Co., 85 Liberty, New York

Bushnell, John S. & Co. ("Ideal"), 227 Fulton, New York

CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Dean, H. C. Machine Co. ("Tolman"), Fitchburg, Mass.

Hall Mfg. Co. ("Hall's" Improved), John & Cliff, New York

INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.

Mallery-Maschke Co. (Indicator), 123 Liberty, New York

Robertson, Pas. L. & Sons Co. ("The Victor"), 204 Fulton, New York

Star Brass Mfg. Co., Boston, Mass.

Thompson, Richard & Co. ("Ideal"), 126 Liberty, New York

Trill Indicator Co. ("Faultless"), Corry, Pa.

Watts Regulator Co., Lawrence, Mass.

Webster & Perks Tool Co. (Aluminum), Springfield, O.

Reeds (Car Seat, Chair, Etc.)

National Patent Reed Co., Unionville, Conn.

Reels (Blasting Cable)

Anderson, Homer, Peekskill, N. Y.
Kirk, Arthur & Son, Pittsburg, Pa.

*Reels (Centrifugal)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Reels (Chalk Line)

Bliss, R. Mfg. Co., Pawtucket, R. I.
Evansville Tool Works, Evansville, Ind.
Hardware & Woodenware Mfg. Co., 693 B'way, New York

Moulton, W. F., Manchester, N. H.
Sandusky Tool Co., Sandusky, O.
Stanley Rule & Level Co., New Britain, Conn.
Union Hardware Co., Torrington, Conn.

Reels (Clothes Line)

Gehl Bros. Mfg. Co., West Bend, Wis.
Pleuger & Henger Mfg. Co., St. Louis, Mo.
Rock River Mfg. Co., Dixon, Ill.
Schreiber & Conchar Mfg. Co., Dubuque, Iowa
Sommer's, John, Son, Newark, N. J.

Reels (Fire Hose)

(See Reels & Racks, Fire Hose)

Reels (Fishing)

Gladding, B. F. & Co., So. Ostelle, N. Y.
Hendryx, Andrew B. Co., New Haven, Conn.
Martin Automatic Fish Reel Co. ("Martin's" Automatic), Mohawk, N. Y.
Meek, B. F. & Son (Inc.), Louisville, Ky.
Melsselbach, A. F. & Bro., ("Tak-a-part"), Newark, N. J.
Montague City Rod Co., Montague City, Mass.

Reels (Garden Hose)

Wirt & Knox Mfg. Co. ("Wirt's"), 22 N 4th, Phila., Pa.

*Reels (Hexagon)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Reels (Mason)

Beall Bros. (Inc.), Alton, Ill.

Reels (Payout & Take-Up)

Anderson, W. H., Tool & Supply Co., 14 Macomb, Detroit, Mich.
Cope, T. J., 1445 Westmoreland, Phila., Pa.
Dicke, C. H. Tool Co. ("Wasson"), Downers Grove, Ill.
Irish, W. F. Electric Co. ("Shamrock"), 60 Cortlandt, New York
Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.
Meckel, Fred. L., 77 E 13th, Chicago, Ill.
Minneapolis Electric & Construction Co., Minneapolis, Minn.
Nagel, W. G. Electric Co. ("Ready"), Toledo, Ohio
Noblett, E. J. Co., Peoria & 121st, Chicago, Ill.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Therien Tool Works, Minneapolis, Minn.
Woonsocket Shuttle Co., Woonsocket, R. I.

*Reels (Scalping)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

*Reels (Sifter Bolting)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Reels (Wire)

Blake & Johnson Co., Waterbury, Conn.
Elgin Mfg. Co. ("McMahon" for Stringing Telephone & Telegraph Wires), Elgin, Ill.
Hallett Iron Works ("McMahon"), 92 Polk, Hofer Mfg. Co., Freeport, Ill. Chicago, Ill.
Koegel, Chas. & Sons, Holyoke, Mass.
Mayer, Clarence, Ellsworth bldg., Chicago, Ill.
Mossberg, Frank Co., Attleboro, Mass.
Morgan Construction Co., Worcester, Mass.
Richmond Safety Gate Co., Richmond, Ind.
SHUSTER, F. B. CO. (Adjustable), New Haven, Conn. (See adv. index, end of book)
Spicer Mfg. Co., New Philadelphia, O. book
Turner, Vaughn & Taylor Co., Cuyahoga Falls, O.
Wasson Reel Co. ("Wasson"), Clinton, Ill.

Reels & Racks (Fire Hose)

Allen, W. D. Mfg. Co. ("Bowes," "Dewey," "Hartford" & "Ryerson"), 151 Lake, Chicago, Ill.
American Fire Apparatus Co., 1 Madison av., New York
Ansonia Mfg. Co. ("Simplex"), 355 W 26th, New York
Clay John H. (Swinging), 1320 Ridge av, Phila., Pa.
Cliff & Gilbert Co., 198 W B'way, New York
Hayward, S. F. & Co. (Fire Hose), 39 Park pl, New York
Howard, H. J. M. ("Howard's" Swinging), 113 4½ st, S W, Washington D. C.
Jiffy Fire Hose Rack Co. ("Jiffy" Fire Hose Racks), 727 7th av, New York
Manhattan Rubber Mfg. Co. (Swinging), 18 Vesey, New York, & Passaic, N. J.
Mineralized Rubber Co. ("The A. B. C."), 18 Cliff, New York
New York Coupling & Supply Co., 58 Ann, New York
Nuhring, Chas., & Bro. ("Safety" Swinging & Automatic), 907 Walnut, Cincinnati, Ohio
Revere Rubber Co. ("Schenck"), 63 Franklin, Boston, Mass.
Seagrave Co., High & H. V. Ry., Columbus, O.
U. S. Metal & Mfg. Co. (Sole Railroad Agents for Cliff & Gilbert's Automatic Hose Reels), 165 Broadway, New York
Whitehurst, R. W. Co., Norfolk, Va.
Wirt & Knox Mfg. Co. ("Hump"), 22 N 4th, Phila., Pa.

Reflectors (Electric Light)

(See Shades & Reflectors; also Reflectors, Various Kinds)

Reflectors (Enameled Iron)

Baltimore Enamel & Novelty Co., Allen & Clement, Baltimore, Md.

*Reflectors for Art Galleries

FRINK, ISAAC P., 551 Pearl, New York. (See adv. index, end of book)

Reflectors for Churches, Halls, Etc.

American Reflector & Lighting Co., 52 W Jackson boul, Chicago, Ill.
Bailey Reflector Co., 547 4th av, Pittsburg, Pa.
Boesch Lamp Co., San Francisco, Cal.
Burger, Alois, 39 E 8th, New York
Dayton Mfg. Co., Dayton, O.
FRINK, ISAAC P., 551 Pearl, New York. (See adv. index, end of book)
Gaumer, John L. Co., 22d & Wood, Phila., Pa.
Gillinder & Sons (Inc.) (Glass), 135 Oxford, Phila., Pa.
Gleason, E. P. Mfg. Co., 37 Murray, New York
Glemm & Co., 132 N 5th, Phila., Pa.
Kneeland Reflector Co., 18 Pitts, Boston, Mass.
Kraushaar Brass Mfg. Co., 508 Im, St. Louis, Mo.
McCreary, A. A. ("McCreary"), 136 Liberty, New York
Martin Bradley Co., San Francisco, Cal.
Mitchell-Vance Co., 836 B'way, New York
National X-Ray Reflector Co., 245 E. Jackson boul., Chicago, Ill.
Sunlight Reflector Co., 141 Court, Brooklyn, N. Y.
Wheeler Reflector Co., 156 Pearl, Boston, Mass.

*Reflectors for Daylight

FRINK, ISAAC P., 551 Pearl, New York. (See adv. index, end of book)

Reflectors (Glass & Porcelain)

(See Shades & Reflectors, Glass & Porcelain)

Reflectors (Metallic)

(See Shades & Reflectors, Metallic)

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I. P. FRINK, 551 Pearl Street, NEW YORK.

Reflectors (Mirror)

(See Shades & Reflectors, Mirror)

Reflectors (Oil Lamp)*FRINK, ISAAC P., 551 Pearl, New York.** (See adv. index, end of book)***Reflectors (Window)****FRINK, ISAAC P., 551 Pearl, New York.** (See adv. index, end of book)**Refrigerators**

Alaska Refrigerator Co., Muskegon, Mich.
 Atkin, C. B. Co., Knoxville, Tenn.
 Baldwin Refrigerator Co., Burlington, Vt.
 Becker, L. A. Co., Halstead & 22d, Chicago, Ill.
 Belding-Hall Mfg. Co., 213 Canal, New York
 Challenge Refrigerator Co., Grand Haven, Mich.
 Chattahoochee Furniture Co., Flowery Branch, Ga.
 Cincinnati Refrigerator & Fixture Co. (China-
 lain-Lined), Cincinnati, O.
 Cleveland Store Fixture Co., 4059 St. Clair av.,
 N E, Cleveland, O.
 Cold Storage Refrigerator Co., Eau Claire, Wis.
 Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.
 Dillingham Mfg. Co., Sheboygan, Wis.
 Eclipse Refrigerator Works, Burlington, Vt.
 Eddy, D. & Sons Co., 336 Adams, Boston, Mass.
 Ehrlich, H. & Sons, St. Joseph, Mo.
 Ehlers, Robert J. Co., 432 Lexington av, New York
 Eureka Refrigerator Co., Indianapolis, Ind.
 Gale Mfg. Co. ("Allwin" Iceless), Galesburg, Ill.
 Grand Rapids Refrigerator Co., Grand Rapids, Mich.
 Gurney Refrigerator Co., Fond du Lac, Wis.
 Hall, A. D. & Son, 33 Spice, Boston, Mass.
 Hall, W. E. & Co., 116 Edward, Phila., Pa.
 Herrmann Furniture & Plumbers Cabinet W'ks,
 254 Canal, New York
 Holbrah-Dieckmann Refrigerator & Fixture Co.,
 615 Walnut, St. Louis, Mo.
 Home Metallic Refrigerator Co. ("De Vaux"
 Sanitary Metallic), Albert Lea, Minn.
 Illinois Refrigerator Co., Morrison, Ill.
 Indiana Mfg. Co., Peru, Ind.
 Jewett, John C. Mfg. Co., Buffalo, N. Y.
 Jointless Refrigerator Co., Milwaukee, Wis.
 Knoell, John & Sons (Inc.), 171 Jefferson,
 Phila., Pa.
 Lorillard Refrigerator Co., 25 W. 32nd, New York
 Lorillard Refrigerator Co., 23 W 34th, New York
 McCray Refrigerator Co., Kendallville, Ind.
 Mace, L. H. & Co., 111 E Houston, New York
 Maine Mfg. Co., Nashua, N. H.
 Marietta Glass Mfg. Co. (Eureka Opal), In-
 dianapolis, Ind., & 156 Fifth av., N. Y.
 Metal Stamping Co. (Metal, "White Frost"),
 Jackson, Mich.
 Michigan Barrel Co. ("Yukon" & "Economic"),
 Grand Rapids, Mich.
 Monarch Refrigerator Works, Burlington, Vt.
 Monroe Refrigerator Co. (Porcelain), Lock-
 New Farson Mfg. Co., Chester, Pa. land, O.
 Northern Refrigerator Co., Grand Rapids, Mich.
 Odorless Refrigerator Co., Chattanooga, Tenn.
 Ranney Refrigerator Co., Greenville, Mich.

Rhineland Refrigerator Co., Rhineland, Wis.
 Seldel Furniture Mfg. Co., 516 Barracks, New Orleans, La.
 Steinfeld Bros., 620 B'way, New York
 Viking Refrigerator & Mfg. Co., Kansas City,
 Vogt, Peter A., Buffalo, N. Y. Mo.
 Western Cabinet & Fixture Mfg. Co., Kansas City, Mo.
 White Enamel Refrigerator Co., St. Paul, Minn.
 Wilke Mfg. Co., Anderson, Ind.
 Wisconsin Refrigerator Co., Eau Claire, Wis.

Refrigerators & Cooling Rooms

Alaska Refrigerator Co., Muskegon, Mich.
 Baldwin Refrigerator Co., Burlington, Vt.
 Cooper, Madison Co. (Refrigerating Architects
 & Engineers), Watertown, N. Y.
 Cooper & McKee, 119 Lorimer, Brooklyn, N. Y.
 Eureka Refrigerator Co., Indianapolis, Ind.
 Gloekler, Bernard Co. (Refrigerators Only),
 Pittsburgh, Pa.
 Grand Rapids Refrigerator Co., Grand Rapids, Mich.
 Gurney Refrigerator Co., Fond du Lac, Wis.
 Heinz & Meunschauer, Superior & Randall,
 Buffalo, N. Y.
 Holmes, C. D., 20 Creek sq, Boston, Mass.
 Illinois Refrigerator Co., Morrison, Ill.
 Indiana Mfg. Co., Peru, Ind.
 Jewett, John C. Mfg. Co., Buffalo, N. Y.
 Jewett Refrigerator Co., 27 Chandler, Buffalo, N. Y.
 Lorillard Refrigerator Co., 25 W. 32nd, New York
 McCray Refrigerator Co. (All Sizes & Con-
 structions), Kendallville, Ind.
 Maine Mfg. Co., Nashua, N. H.
 Michigan Barrel Co. (White Enamel), Grand Rapids, Mich.
 Perkins Mfg. Co., St. Paul, Minn.
 Racine Refrigerator & Fixture Co., Racine, Wis.
 Randall, R. T. & Co. (Butchers, etc.), 333 N
 2d, Phila., Pa.
 Ranney Refrigerator Co., Greenville, Mich.
 Rhineland Refrigerator Co., Rhineland, Wis.
 Ridway Refrigerator Co., 707 N Broad, Phila., Pa.
 Stevens, B. A. Co., Toledo, O.
 Viking Refrigerator & Mfg. Co., Kansas City, Mo.
 Weaver, Edw. E., Tamaqua, Pa.
 White Enamel Refrigerator Co. (Bohn Syphon
 System for Refrigerator & Dining Cars),
 1340-1400 University av, St. Paul, Minn.
 Wilke Mfg. Co., Anderson, Ind.
 Wisconsin Refrigerator Co., Eau Claire, Wis.
 Wolf, Sayer & Heller, Fulton & Peoria, Chi-
 cago, Ill.

**Refrigerators & Cooling Rooms
(Glass Lined)**

Baldwin Refrigerator Co., Burlington, Vt.
 Cooper & McKee (Opalite), 113 Lorimer,
 Brooklyn, N. Y.
 Jewett Refrigerator Co., Buffalo, N. Y.
 Lorillard Refrigerator Co., 25 W. 32nd, New York
 McCray Refrigerator Co., Kendallville, Ind.
 Viking Refrigerator & Mfg. Co., Kansas City, Mo.
 White Enamel Refrigerator Co., St. Paul, Minn.
 Wilke Mfg. Co., Anderson, Ind.

**Refrigerators & Cooling Rooms
(Tile Lined)**

Baldwin Refrigerator Co., Burlington, Vt.
 Jewett Refrigerator Co., 27 Chandler, Buffalo, N. Y.
 McCray Refrigerator Co. (Also Opal Tile
 Lined), Kendallville, Ind.
 Stevens, Benj. A., Co., Toledo, O.
 Viking Refrigerator & Mfg. Co., Kansas City, Mo.
 White Enamel Refrigerator Co., St. Paul, Minn.
 Wilke Mfg. Co., Anderson, Ind.

Registers (Autographic)

Autographic Register Co. ("Shoup's"), 10th,
 Clinton & Grand, Hoboken, N. J.
 Egry Autographic Registry Co. (For Billing
 Sales & Shipping), 427 Monument av, Day-
 ton, O.
 Globe Register Co., 417 Sycamore, Cincinnati,
 Ohio
 Hamilton Autographic Register Co., Hamilton,
 McGaskey Register Co., Alliance, O.
 United Autographic Register Co., 89 W Jack-
 son, Chicago, Ill.

Registers (Car Fare)

Benton Mfg. Co., 9 Bethune, New York
 Dayton Fare Recording Co., Dayton, O.
 International Register Co. (Single & Double),
 118 W Jackson boul, Chicago, Ill.
 Ohmer Fare Register Co., Dayton, O.
 Pay-As-You-Enter Car Co. ("McDonald"), 50
 Church, New York
 Recording Fare Register Co. (Tallying & Hand
 Tally), New Haven, Conn.
 Rooke Automatic Register Co. (Automatic),
 Providence, R. I.
 Security Register & Mfg. Co., 1512 Clark av,
 St. Louis, Mo.
 Sterling-Meaker Co., 420 Ogden, Newark,
 N. J.
 Woodman, R. Mfg. & Supply Co. (Hand), Bos-
 ton, Mass.

Registers (Cash)

American Cash Register Co. ("Hallwood"),
 Columbus, O.
 Autographic Register Co., Hoboken, N. J.
 Automatic Cashier Co. ("Automatic" Cash-
 iers), 40 Charter Oak av, Hartford, Conn.
 Century Cash Register Co., Detroit, Mich.
 Hough Cash Recorder Co. ("Security"), In-
 dian Orchard, Mass.
 Michigan Cash Register Co., Detroit, Mich.
 National Cash Register Co., Dayton, O.
 United Autographic Register Co., 89 W. Jack-
 son boul., Chicago, Ill.
 Whiting Mfg. Co., Northboro, Mass.

***Registers (Engine)**

NATIONAL GAUGE CO. ("National"), 168
 8th, Brooklyn, N. Y. (See adv. index, end
 of book)

Registers (Grain)

Advance Thresher Co., Battle Creek, Mich.
 Champion Thresher Co., Orrville, O.
 Howell Mfg. Co., Minneapolis, Minn.

IMPORTANT

When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible.

S. E. HENDRICKS CO.,
 74 LAFAYETTE STREET,
 NEW YORK, N. Y.

Huber Mfg. Co., Marion, O.
 Miller, Wm. S., Meyersdale, Pa.
 Nesmith, C. L., Washington, Ill.
 Nichols & Shepard Co. ("The Smith"), Battle Creek, Mich.
 Nordyke & Marmon Co., Indianapolis, Ind.
 Port Huron Engine & Thresher Co., Port Huron, Mich.

Registers (Hand Tally)

Benton Mfg. Co., 9 Bethune, New York
 Pratt & Whitney Co., Hartford, Conn.
 Root, C. J., Bristol, Conn.
 Woodman Mfg. & Supply Co., Boston, Mass.

Registers (Hot Air)

Auer Register Co., Cleveland, O.
 Columbian Hardware Co. ("Tubo" Wrought Steel), Cleveland, O. & 168 Church, New York
 Creamer, W. G. & Co., 96 John, New York
 Detroit Register Co., Detroit, Mich; Works. Milan, Mich.
 Excelsior Steel Furnace Co., 40 W Monroe, Ferresteel Co., Cleveland, O. Chicago, Ill.
HART & COOLEY CO. (Wrought Steel), New Britain, Conn. (See adv. index & branch offices, end of book)
 Highton, Wm. & Sons, Nashua, N. H.
 Ideal Register Metallic & Furniture Co., Detroit, Mich.
 Independent Register & Mfg. Co., Cleveland, Ohio
 Mueller, L. J. Furnace Co. (Steel & Cast Iron, Wall & Floor), Milwaukee, Wis.
 Novelty Mfg. Co., Jackson, Mich.
 Phila. Hardware & Malleable Iron W'ks (Inc.) ("Colonial"), 9th & Jefferson, Phila., Pa.
 Schreiber & Conchar Mfg. Co., Dubuque, Ia.
 Standard Foundry & Mfg Co., Cleveland, O.
 Stowell Mfg. & Foundry Co. (Floor & Side Wall), South Milwaukee, Wis.
 Symonds Mfg. Co. (Wall), E St. Louis, Ill.
 Syracuse Stove Works ("Kernan Welcome"), Syracuse, N. Y.
 Tuttle & Bailey Mfg. Co. (Cast Iron, also Wrought Steel), 83 Beekman, New York
 XXth Century Heating & Ventilating Co., Akron, O.
 U. S. Register Co. ("Jones" Side Wall Ventilating), Battle Creek, Mich.
 Walworth Run Foundry Co., 2488 W. 27th, S. W., Cleveland, O.
 Waterloo Register Co., Waterloo, Ia.

Registers (Hot Water)

Excelsior Steel Furnace Co., 40 W Monroe, Chicago, Ill.

Registers (Pressure, for Gas Works)

Connelly Iron Sponge & Governor Co., 50 Church, New York

Registers (Stove Pipe)

Arcade Mfg. Co., Freeport, Ill.

Regulators (Air)

Charm Air Regulator Co. (Aluminum), 966 Myrtle av., Brooklyn, N. Y.

*Regulators (Blower, Electric)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Regulators (Boiler Feed)

(See Regulators, Feed Water)

*Regulators (Car Heating)

FOSTER ENGINEERING CO., 119 Monroe, Newark, N. J. (See adv. index, end of book)

*Regulators (Compressor, Electric)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Regulators (Controller, Electric Railway)

Durkin Controller Handle Co., Phila., Pa.

Regulators (Damper)

(See also Furnace Regulators; also Pressure Regulators)

Acton, John, ("The Acme"), 118 John, Brooklyn, N. Y.
 American Radiator Co. ("Sylphon"), 282 Michigan av, Chicago, Ill.
 Atwood & Morrill ("XX Century"), Salem, Mass.
 Automatic Damper Co. ("Ferdinand"), Milwaukee, Wis.
 Berry Engineering Co. ("Berry"), Chester, Pa.
 Burrows Mfg. Co. (Automatic), York, Pa.
 Collins Mfg. Co. ("Collins" Automatic), 612 Chestnut, Phila., Pa.
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book.)
 Davis, Geo. M. Regulator Co., 144 Milwaukee av, Chicago, Ill.
 D'Este, Julian Co. ("Curtis"), Boston, Mass.
DONEGAN & SWIFT, 6 Murray, New York. (See adv. index, end of book)
 Doolittle, S. B. & Son ("Economy"), Binghamton, N. Y.
 Ford, Thos. P. Co., 407 Broome, New York
 Hess & Barker ("Kellum" Improved), 605 Sansom, Philadelphia, Pa.
 Howard Thermostat Co. ("Sprague" Automatic Damper & Valve Regulator), Oswego, N. Y.
 Kellogg-Mackay Co. ("Morgan's" for Steam & Hot Water), 19 W 18th, Chicago, Ill.
 Kelly & Jones Co., 135 Water, Pittsburg, Pa.

KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan, Chicago, Ill. (See adv. index, end of book)
 Kleley & Mueller (Improved "Climax"), 34 W 13th, New York

Kipp, A., Jr., Ossining, N. Y.
 Kitts Mfg. Co. (For Steam Bolders), Oswego, N. Y.

Klipfel Mfg. Co., 44 N Carpenter, Chicago, Ill.
 Lagonda Mfg. Co., Springfield, O.

Lawier Regulator Co. (Hot Water), 473 W B'way, New York

Lippincott Steam Specialty & Supply Co., Newark, N. J.

Locke Regulator Co. (Steam), Salem, Mass.

Loneragan, J. E. & Co. ("Kellam" Steam), 211 Race, Phila., Pa.

Mason Regulator Co., Boston, Mass.

Nason Mfg. Co. (Low Pressure), 71 Beekman, New York

Newbury Mfg. Co. (Low Pressure), Monroe, N. Y.

Patterson Mfg. Co., Baltimore, Md.

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Powers Regulating Co., 40 Dearborn, Chicago, Ill.

Robertson, Jas. L. & Son (Inc.), 48 Warren, New York

Rutzler, E. Co. (Pressure), 127 White, New York

Schaefer & Budenberg Mfg. Co. 963 Kent av, Brooklyn, N. Y.

Spencer Regulator Co. ("Spencer"), Salem, Mass.

Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York

Stillman-Carmichael Co. ("Stillman-Carmichael"), 19 Pearl, Boston, Mass.

Straight Line Regulator Co., 1344 Ridge av, Phila., Pa.

Thompson, Richard & Co. ("Thompson & Spencer" High or Low Pressure), 126 Liberty, New York

Watts Regulator Co. ("The Lawrence"), Lawrence, Mass.

*Regulators (Dynamo Field)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

*Regulators (Electric Blower)

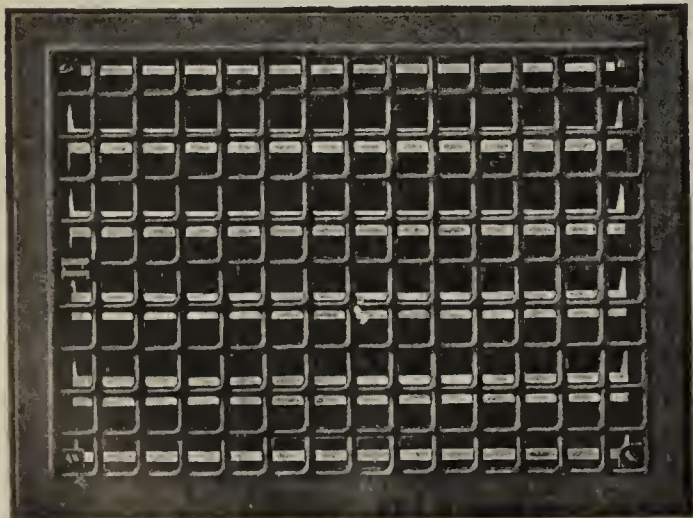
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

*Regulators (Electric Fan)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Regulators (Electric Pump)

(See Governors, Electric Pump)



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***Regulators (Exhaust Pressure)**

LUKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Regulators (Fan Engine)

Davis, G. M. Regulator Co., 144 Milwaukee av., Chicago, Ill.

FOSTER ENGINEERING CO. (For Induced or Forced Draft), 119 Monroe, Newark, N. J. (See adv. index, end of book)

Kitts Mfg. Co., Oswego, N. Y.
Nason Mfg. Co., 71 Beekman, New York
Rice, Barton & Fales Machine Co., Worcester, Mass.

Ross Valve Mfg. Co., Troy, N. Y.
St. Louis Steam Engine Co., St. Louis, Mo.
Star Brass Mfg. Co., Boston, Mass.

STRONG, CARLISLE & HAMMOND CO. ("The Squires"), 336 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Thomas Brass & Iron Co., Waukegan, Ill.
Trask, H. D. Co., 74 Portland, Boston, Mass.

Union Water Meter Co., Worcester, Mass.
Waters Governor Co., Everett, Mass.
Watson & McDaniel Co. (For Steam, Water & Air), 146 N 7th, Phila., Pa.

Watts Regulator Co., Lawrence, Mass.

Regulators (Feed Water)

(See also Regulators, Pump; also Governors, Pump)

Adams Regulator Co., Fargo, N. D.
Atlas Engineering Co., Newark, N. J.
Berry Engineering Co. ("Berry"), Chester, Pa.

Boston Steam Specialty Co., Boston, Mass.
Burrows Mfg. Co. ("Burrows"), York, Pa.

Chaplin-Fulton Mfg. Co. ("Vigilant"), Pittsburgh, Pa.

Ford, Tbos. P. Co. ("Ford"), 407 Broome, New York

Foster, F. W. Mfg. Co. ("Nev-R-Lek"), Boston, Mass.

Jerguson Mfg. Co. ("Wiltbone"), Boston, Mass.

Kitts Mfg. Co. (Safety), Oswego, N. Y.

Liberty Mfg. Co., 6907 Susquehanna, Pittsburgh, Pa.

Locke Regulator Co., Salem, Mass.

McCrea, Jas. & Co. ("Rowe"), 65 W Washington, Chicago, Ill.

Murray Automatic Boiler Feed Co., Detroit, Mich.

Nichols & Whittaker ("Positive"), Methuen, Mass.

Northern Equipment Co. ("Copes"), Old Colony bldg., Chicago, Ill.

S. C. Regulator Co. ("S. C."), Fostoria, O.

Safety Equipment Mfg. Co. ("Gould"), Fisher bldg., Chicago, Ill.

Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York

STRONG, CARLISLE & HAMMOND Co. ("The Squires"), 336 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Williams Gauge Co. ("Williams" Automatic Safety), Pittsburgh, Pa.

Regulators (Furnace)

Cobb, Chas. C. (Furnace), 71 Gold, New York

Driesbach, L. & Co., 1407 N 8th, Phila., Pa.

Farquhar Furnace Co. ("Farquhar"), Wilmington, O.

Keas, F. D., Mfg. Co. ("Fuelsaver"), Beatrice, Neb.

Lawler Regulator Co., 473 W B'way, New York

Norcross Furnace Regulator Co., 71 Gold, New York

Puffer, W. E. & Sons (Automatic), 113 Beekman, New York

Quaker Mfg. Co. (Furnace Time Regulators), Chicago Heights, Ill.

Ridgeway Furnace Co., 6 Portland, Boston, Mass.

Riverside Mfg. Co., 162 Riverside av., Newark, N. J.

Rcwe, L. L., 72 Portland, Boston, Mass.

White, C. H. & Co. (Automatic), 22 Bowker, Boston, Mass.

***Regulators (Gas)**

STRONG, CARLISLE & HAMMOND CO. ("The Squires"), 336 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Regulators (Gas Pressure)

Baylis Co. ("Colonial"), 140 Greenwich, New York

Bishop & Babcock Co. (Carbonic Acid), 49th & Hamilton av., Cleveland, O

Boyce, Myron J., 584 Hudson, New York

Chaplin-Fulton Mfg. Co. ("Fulton"), Pittsburgh, Pa.

Combustion Utilities Co., 60 Wall, New York

Crane, Wm. M. Co. ("Perfect Vulcan"), 16 W 32d, New York

Equitable Meter Co. ("Crawford" Sensitive), 439 Water, Pittsburgh, Pa.

Evans Mfg. Co., Butler, Pa.

FOSTER ENGINEERING CO., 119 Monroe, Newark, N. J. (See adv. index, end of book)

PRESSURE REGULATORS

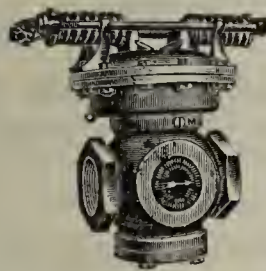
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Branches

CHICAGO

PHILADELPHIA

PITTSBURGH

GAS POWER CO., 2 Rector, New York. (See adv. index, end of book)

Gleason, E. P. Mfg. Co., 37 Murray, New York

Hughson Steam Specialty Co. ("Eclipse"), 5021 S State, Chicago, Ill.

Jacobson Machine Mfg. Co., Warren, Pa.

McLaughlin, Geo. G. Mfg. Co., 812 E 6th, Boston, Mass.

Noyes Mfg. Co., 47 Indian, Boston, Mass.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

Perfect Gas Controller Co., 50 5th av., Chicago, Ill.

PITTSBURGH METER CO., East Pittsburgh, Pa.

Powers Regulator Co. (Natural Gas), 40 Dearborn, Chicago, Ill.

Reynolds Gas Regulator Co. (Low Pressure), Anderson, Ind.

Schaeffer & Eudenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

Sleeman, Nathaniel, New Haven, Conn.

Turner Brass Works, Sycamore, Ill.

UNION WATER METER CO., Wor- cester, Mass. (See adv. index, end of book)

Wright, Geo., Lapel, Ind.

Regulators (Heat)

Atwood & Morrill ("XX Century"), Salem, Mass.

Automatic Heat Regulator Co. ("South Bend"), South Bend, Ind.

Beers Bros. Thermostat Co., Rochester, N. Y.

Black Heat Regulator Co. ("Black"), Euclid & McPherson avs., St. Louis, Mo.

Chaplin-Fulton Mfg. Co., 27 Penn av., Pittsburgh, Pa.

Chicago Heat Regulator Co. ("Chicago"), 40 Dearborn, Chicago, Ill.

D'Este, Julian Co. ("Curtis"), Boston, Mass.

Detroit Heating & Lighting Co., Wight, nr Leib, Detroit, Mich.

Electric Heat Regulator Co. (Automatic), Minneapolis, Minn.

Enterprise Mfg. Co., Newburgh, N. Y.

Geetzy Co. (Mechanical Air Moisteners or Temperature Controllers), 2548 Evanston av., Chicago, Ill.

Geissinger Regulator Co., 203 Greenwich, New York

Hawkins, Rollyn Co. (Automatic), Indianapolis, Ind.

Howard Thermostat Co., Oswego, N. Y.

International Heater Co., Utica, N. Y.

Jewell Mfg. Co., Auburn, N. Y.

Johnson Service Co. ("Johnson" System of Temperature Regulating), Milwaukee, Wis.

Klipfel Mfg. Co., 44 N Carpenter, Chicago, Ill.

Lawler Regulator Co., 473 W B'way, New York

Locke Regulator Co. ("Locke's" Office Heating), Salem, Mass.

Mack Automatic Heat Regulator Co. (Automatic), Port Plain, N. Y.

National Regulator Co. (For Control of Dampers & Valves in a Heating Apparatus), 334 Dearborn, Chicago, Ill.

National Steam Specialty Co. ("National" Heat Controller), 230 E Washington, Chicago, Ill.

Norwall Mfg. Co. ("Alle"), 154 Lake, Chicago, Ill.

Powers Regulator Co., 40 Dearborn, Chicago, Ill.

Queen City Electric Co. ("Gulon Thermostat"), Elmira, N. Y.

Standard Temperature Regulation Co. (Automatic), Newark, N. J.

Tagliabue, Chas. J., Mfg. Co., 51 Fulton, New York

Taylor Instrument Co., Rochester, N. Y.

Thermograde Valve Co., Boston, Mass.

Utica Steam Gauge Co., Frankfort, N. Y.

Weld, Geo. A. Co., Boston, Mass.

Williams, F. H. ("Economy"), Greene, N. Y.

Regulators (Hot Water)

KEWANEE BOILER CO. ("Kewanee"). Kewanee, Ill., & 35 Michigan, Chicago, Ill.

(See adv. index, end of book)

Lawler Regulator Co., 473 W Broadway, New York

Weld, Geo. A. Co. ("Weld," Automatic Damper Regulators), 41 Lincoln, Boston, Mass.

Regulators (Hydraulic)

Locke Regulator Co., Salem, Mass.

Waters Governor Co., 34 Oliver, Boston, Mass. Works: Everett, Mass.

Regulators (Moisture)

Johnson Service Co. (Humidostat), Milwaukee, Wis.

***Regulators (Motor Speed)**

CUTLER HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

***Regulators (Organ, Electric)**

CUTLER HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Regulators (Pressure)

Acton, John, 118 John, Brooklyn, N. Y.

American District Steam Co. (Steam), Lockport, N. Y.

Atlas Engineering Co., Newark, N. J.

Belfield, H. & Co. (High & Low Pressure), 435 N Broad, Phila., Pa.

Buckeye Iron & Brass Works, Dayton, O.

Burrows Mfg. Co., York, Pa.

Chaplin-Fulton Mfg. Co., Pittsburgh, Pa.

Collins Mfg. Co. ("Collins" Automatic Oil), 612 Chestnut, Phila., Pa.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

CUTLER-HAMMER MFG. CO. (Electrically Operated Pressure Regulators for Use in Connection with Motor Driven Pumps & Air Compressors), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Davis, Geo. M. Regulator Co., 144 Milwaukee av., Chicago, Ill.

D'Este, Julian Co., 24 Canal, Boston, Mass.

Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.

FOSTER ENGINEERING CO. (For Air, Ammonia, Steam, Gas, Oil, etc.), 119 Monroe, Newark, N. J. (See adv. index, end of book)

Gilchrist, Geo. E. Co. ("The Boston"), 106 High, Boston, Mass.

GARDNER GOVERNOR CO. ("Gardner" Speed & Pressure), Quincy, Ill. (See adv. index, end of book)

Johnson Service Co. (Pressure Governors & Reducing Valves for Steam, Water, Gas & Air), Milwaukee, Wis.

Kieley & Mueller (Steam), 34 W 13th, New York

Kelly & Jones Co., Pittsburg, Pa.

Klpp, A. J., Ossling, N. Y.

Klits Mfg. Co., Oswego, N. Y.

Kilpfel Mfg. Co. ("K. & T."), 44 N Carpenter, Chicago, Ill.

Lawler Regulator Co., 473 W B'way, New York

Leslie Co. (Inc.), ("Leslie"), Lyndhurst, N. J.

Locke Regulator Co. ("New Era," Steam), Salem, Mass.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Mason Regulator Co., 158 Summer, Boston, Mass.

Ohlo Brass Co. ("Collin"), Mansfield, Ohio

Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.

Ross Valve Mfg. Co. (Air, Steam & Water), Troy, N. Y.

Spencer Regulator Co. ("Spencer"), Salem, Mass.

STRONG, CARLISLE & HAMMOND CO. ("The Squires"), 336 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Tagliabue, Chas. J., Mfg. Co., 51 Fulton, New York

Taylor Instrument Co., Rochester, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.

Trask Heating Co., 76 Sudbury, Boston, Mass.

UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

Waters Governor Co., 34 Oliver, Boston, Mass. Works: Everett, Mass.

Watson & McDaniel Co. (For Steam, Water & Air), 146 N 7th, Philadelphia, Pa.

Watts Regulator Co., Lawrence, Mass.

Regulators (Pressure, for Cane Mills)

Buchel Machine Works, New Orleans, La.

Regulators (Pump)

(See Governors, Pump)

*Regulators (Rheostat)

CUTLER HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Regulators (Slasher)

Atwood & Morrill ("XX Century"), Salem, Mass.

Regulators (Speed)

(See Controllers, Various Kinds; also Indicators, Various Kinds)

Regulators (Steam Engine)

(See Governors, Steam Engine)

Regulators (Steam Heat, for Train Service)

FOSTER ENGINEERING CO., 119 Monroe, Newark, N. J. (See adv. index, end of book)

Locke Regulator Co., Salem, Mass.

*Regulators (Stoker Equipment)

FOSTER ENGINEERING CO., 119 Monroe, Newark, N. J. (See adv. index, end of book)

Regulators (Tank, Hot Water)

National Regulator Co., 111 W Harrison, Chicago, Ill.

Weld, Geo. A. Co. ("Weld"), 41 Lincoln, Boston, Mass.

Regulators (Temperature)

(See Regulators, Heat)

*Regulators (Vibration Proof)

GEISSINGER REGULATOR CO., 203 Greenwich, New York

Regulators (Voltage)

GENERAL ELECTRIC CO., Schenectady, N. Y. & 30 Church, New York. (See adv. index & branch offices, end of book)

Gilmore Electric Co. ("Chapman"), Boston, Mass.

Keystone Electric Co. ("Pusey"), 135 S 10th, Phila., Pa.

Lincoln Electric Co., Cleveland, O.

Portland Co. ("W. H. C."), Portland, Me.

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Regulators (Water)

STRONG, CARLISLE & HAMMOND CO. ("The Squires"), 336 Frankfort av., N. W., Cleveland, O. (See adv. index, end of book)

Regulators (Water Pressure)

Aneshaensel, C. & Co. ("Reliable"), Indianapolis, Ind.

Atwood & Morrill, Salem, Mass.

Bishop & Babcock Co., Cleveland, O.

Chapin-Fulton Mfg. Co., Pittsburg, Pa.

Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.

Davis, Geo. M. Regulator Co., 144 Milwaukee av., Chicago, Ill.

D'Este, Julian Co., 24 Canal, Boston, Mass.

Erwin Hydraulic Machinery Co., 204 Grand av., Milwaukee, Wis.

Ford, Thos. P. Co., 407 Broome, New York

FOSTER ENGINEERING CO., 119 Monroe, Newark, N. J. (See adv. index, end of book)

Haydenville Co., Haydenville, Mass.

Kieley & Mueller, 34 W 13th, New York

Klits Mfg. Co., Oswego, N. Y.

Locke Regulator Co. ("New Era"), Salem, Mass.

Mueller, H. Mfg. Co., Decatur, Ill.

Nason Mfg. Co. ("Griffin"), 71 Beekman, New York

Powers Regulator Co., Chicago, Ill.

Ross Valve Mfg. Co., Troy, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.

Thompson, J. & Co., c Van Horn & Sophia, Phila., Pa.

UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

Watts Regulator Co. ("Watts"), Lawrence, Mass.

Regulators (Water Wheel)

(See Governors, Water Wheel)

Regulators (Windmill)

Althouse Wheeler Co., Waupun, Wis.

Baker Mfg. Co. ("Baker"), Evansville, Wis.

Batavia Windmill Co., Batavia, Ill.

Bushnell Pump Co., Bushnell, Ill.

Challenge Windmill & Feed Mill Co., Batavia, Ill.

Deming Co., Salem, O.

Dempster Mfg. Co., Des Moines, Ia.

Ell Tank Heater Co., DeKalb, Ill.

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Flsher & Long, Decatur, Ill.

Flint & Walling Mfg. Co., Kendallville, Ind.

Heller, Ailer & Co. (Hydraulic), Napoleon, O.

Hunt, Helm, Ferris & Co. ("The Star" & "Champion"), Harvard, Ill.

Kelly Mfg. Co., Waterloo, Iowa

Mast, Foss & Co., Springfield, O.

Meyers, F. E. & Bro., Ashland, O.

Novelty Mfg. Co., Rock Island, Ill.

Red Cross Mfg. Co. ("Acme"), Bluffton, Ind.

Red Jacket Mfg. Co., Davenport, Ia.

Stover Mfg. Co., Freeport, Ill.

U. S. Wind Engine & Pump Co., Batayla, Ill.

Zimmerman Mfg. Co., Auburn, Ind.

*Reheaters (Air)

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Reinforced Concrete Bridges

(See Bridges, Concrete Reinforced; also Concrete Steel Construction, Reinforced)

*Reinforcing Metals

(See also Concrete Reinforcing Materials)

RANSOME CONCRETE MACHINERY Co. (Twisted Steel), Dunellen, N. J. (See adv. index & branch offices, end of book)

TRUSSED CONCRETE STEEL CO., Trussed Concrete bldg., Detroit, Mich. (See adv. index & branch offices, end of book)

Relays for Electrical Contact

General Railway Signal Co., Rochester, N. Y.

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Remnants (Cotton)

Devon Mills (George S. Browne, Prop.) (Specially Absorbent for Cleaning), Providence, R. I.

*Remnants (Rubber Belt)

WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

*Repairs (Electrical Machinery)

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

Replacers (Car)

Adreon & Co. ("Fewing's"), St. Louis, Mo.

Alexander Car Replacer Co., Mears bldg., Scranton, Pa.

Buda Foundry & Mfg. Co. ("Buda"), Railway Exchange bldg., Chicago, Ill.

FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Hood Reroller Co., Raleigh, N. C.

Johnson Wrecking Frog Co., Cleveland, O.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Locomotive Appliance Co. ("Newton"), Old Colony bldg., Chicago, Ill.

Q. M. S. Co. ("Fewing's"), Plainfield, N. J.

Sargent-Hollingshead Co. ("Sargent Reroller"), Flsher bldg., Chicago, Ill.

Tilden, B. E. & Co., Monadnock blk., Chicago, Ill.

Traction Equipment Co. ("Aldon"), 72 Grand av., Brooklyn, N. Y.

U. S. Metal & Mfg. Co. ("Perfect" Pressed Steel & "Victor" Cast Steel), 165 Broadway, New York

Washburn Steel Casting & Coupler Co., Minneapolis, Minn.

Replacers (Incandescent Lamp)

Crescent Co. ("Bates"), 103 W Adams, Chicago, Ill.

Matthews, W. N. & Bro. ("Easy"), St. Louis, Mo.

MORSE, FRANK W. ("Handy"), 516 Atlantic av., Boston, Mass. (See adv. index, end of book)

Reservoirs (Air Brake, Etc.)

Avery Stamping Co. ("Never Break"), Cleveland, O.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

PRESSED STEEL TANK CO., Milwaukee, Wis. (See adv. index, end of book)

***Resistance Blocks**

DIXON, JOS. CRUCIBLE CO. (Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)

***Resistance Grids**

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

***Resistance Rods & Carbons**

DIXON, JOS. CRUCIBLE CO. (Graphite), Jersey City, N. J. (See adv. index & branch offices, end of book)

Resistance Units

CUTLER HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

ELECTRIC CONTROLLER & MFG. CO., Cleveland, O. (See adv. index & branch offices, end of book)

Simplex Electric Heating Co., Cambridge, Mass.

Ward, Leonard, El. Co., Bronxville, N. Y.

Resistances (Standard)

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

Respirators

Cover, H. S. (Metal or Rubber), South Bend, Ind.

DIAMOND RUBBER CO. (Rubber), Akron, O. (See adv. index, end of book)

Hayward, S. F. & Co., 39 Park pl, New York

Rests (Pipe)

Grabler Mfg. Co., Cleveland, O.

Retorts (Cast Iron)

Cornell, J. B. & J. M. Co., 26th & 11th av, Love Bros. (Inc.), Aurora, Ill. New York

MACKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)

Retorts (Chemical)

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

Retorts (Gas)

Baltimore Retort & Fire Brick Co., Nicholson, c. Hull, Locust Point, Baltimore, Md.

Bartley, Jonathan, Crucible Co., Trenton, N. J.

Borgner, Cyrus Co., 23d ab Race, Phila., Pa.

Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.

Chicago Retort & Fire Brick Co., 45th & Clark, Chicago, Ill.

Didier-March Co., 50 Church, New York

FISKE & COMPANY, (Inc.), 25 Arch, Boston, Mass., & Flat Iron bldg., New York.

(See adv. index, end of book)

Gardner, Jas., Jr. Co., Lockport, Pa.

Gas Machinery Co., Cleveland, O.

Gautier, J. H. Co., Jersey City, N. J.

KREISCHER BRICK MFG. CO., 119 E 23d New York.; Works: Kreischerville, S. I., N. Y. (See adv. index, end of book)

Laclede-Christy Clay Products Co., St. Louis, Mo.

Louisville Fire Brick Works, Highland Park, Louisville, Ky.

MAURER, HENRY & SON, 420 E 23d, New York; Penna. bldg., Phila., Pa.; Works: Maurer, N. J. (See adv. front inside cover)

MISSISSIPPI GLASS CO., 115 Broadway, New York. (See adv. index & branch offices, end of book)

Parker-Russell Mining & Mfg. Co., 417 Pine, St. Louis, Mo.

Phila. Fire Brick Works, 2306 Vine, Phila., Pa.

Power & Mining Machinery Co., Cudahy, Wis.

Retorts (Wood Alcohol)

Cornell, J. B. & J. M. Co., 26th & 11th av, New York

Revolution Counters

(See Counters, Revolution)

Revolver Mfrs.

(See Rifles, Guns, Etc.)

Revolving Doors

(See Doors, Revolving)

Rheostats

American Electric Fuse Co. (Motor Starting & Controlling), Muskegon, Mich.

Badt, F. B. & Co. (Mfrs.' Agts.), Monadnock blk, Chicago, Ill.

Benton, Thos. P. & Son, La Crosse, Wis.

Bernard, E. G. Co., Troy, N. Y.

Cushman Electric Co. (Compound Starting & Regulating), Concord, N. H.

Cutler Electrical & Mfg. Co., 1112 Sansom, Phila., Pa.

CUTLER-HAMMER MFG. CO. (For all Purposes), Milwaukee, Wis. (See adv. index, end of book)

**Battery Charging**

Rheostats for storage and ignition batteries.

THE CUTLER-HAMMER MFG. CO., Milwaukee, Wis.

Darrin, D. H. Co. ("The Whittingham"), 126 Liberty, New York

ELECTRIC CONTROLLER & MFG. CO., Central & Giddings av., Cleveland, O. (See adv. index, end of book)

Federal Electric Co. (Automatic Motor Starting, for Elevator and General Service), North Girard, Pa.

Fort Wayne Electric Works (Motor Starting), Fort Wayne, Ind.

GENERAL ELECTRIC CO. (for Generators, Motors & Projectors), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

International Instrument Co. (Water), 23 Church, Cambridge, Mass.

Jenney Electric Mfg. Co., Anderson, Ind.

Lincoln Electric Co., 49 Wood, Cleveland, O.

McIntosh Battery & Optical Co. (Cautery, etc.), 225 E Washington, Chicago, Ill.

Monitor Mfg. Co. (Automatic Motor Starting), Baltimore, Md.

Muir, Thos. & Son, Union Trust bldg, Detroit, Mich.

National Rheostat Co., 115 Franklin, Chicago, Ill.

Northern Engineering Works, 120 Liberty, New York

OTIS ELEVATOR CO. (Automatic), 17 Battery pl., New York. (See adv. index & branch offices, end of book)

PHOENIX ELECTRIC COMPANY, Mansfield, O. (See adv. index, end of book)

Putnam, Jos. E. (Automatic), Chamber of Commerce, Rochester, N. Y.

Quaker City Electric Co., 237 Dock, Phila., Pa.

Simplex Electric Heating Co., Cambridge, Mass.

Schureman, J. L. Co., 70 W Jackson boul, Chicago, Ill.

Traction Equipment Co. (For Street Cars), 74 Cortlandt, New York

Ward, Leonard Electric Co. (Plating, etc.), Bronxville, N. Y.

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

***Rheostats (Controlling)**

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

***Rheostats (Field)**

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

***Ribbon Cutting Machines**

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Rice Binders

Aultman, Miller & Co., Akron, O.
Deering Harvester Co., Chicago, Ill.
Warder, Bushnell & Glessner Co., Springfield, Ohio

Rice Shoes (Brewers')

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

Rickerts (Hay)

(See Rakes, Sweep, Etc.)

Riddles (Foundry)

(See also Riddles & Sieves)

Berkshire Mfg. Co. ("Berkshire" Rotary), Cleveland, Ohio

Bromwell Brush & Wire Goods Co., Cincinnati, O.

Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.

Dean, Hy. E. & Co., Worcester, Mass.

ESTEY BROS. CO., Liberty & Greenwich, New York. (See index, end of book)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

TAYLOR & DEAN, Penn av. & 25th, Pittsburgh, Pa. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York. (See adv. index & branch offices, end of book)

U. S. Chaplet & Supply Co., 140 Cedar, New York

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

***Riddles (Miners')**

TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York. (See adv. index & branch offices, end of book)

Riddles (Revolving Dumping)

Hanna Engineering Works (Motor Driven for Foundry Use, etc.), 825 Elston av., Chicago, Ill.

Riddles & Sieves

Brand, S. H. & Co. (Nickel Plate), 99 W. Monroe, Chicago, Ill.

Bromwell Brush & Wire Goods Co., Cincinnati, O.

Buffalo Wire Works Co., Buffalo, N. Y.

Colton Wire Cloth Co., Worcester, Mass.

DARBY, EDWARD & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)

Dufur & Co., 311 N Howard, Baltimore, Md.

ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)

ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)

Gilbert & Bennett Mfg. Co., Georgetown, Conn.

HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)

Ludlow-Saylor Wire Co., St. Louis, Mo.

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

Morss & Whyte Co., 75 Cornhill, Boston, Mass.

OSBORN MFG. CO., 5401 Hamilton av, N. E. Cleveland, O. (See adv. index, end of book)

Phoenix Wire Works, Detroit, Mich.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd., N. W., Cleveland, O. (See adv. index, end of book)

TAYLOR & DEAN, Penn av. & 25th, Pittsburgh, Pa. (See adv. index, end of book)

Tristram, Jas. J., Rockville Center, N. Y.

TYLER, W. S. CO., Cleveland, O., and 11 B'way, New York. (See adv. index & branch offices, end of book)
Wickwire Bros. (Coal & Flour Sieves, etc.), Cortland, N. Y.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)
WRIGHT WIRE CO. (Steel, Brass, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

Ridge Roll (Corrugated)

BURTON, W. J. CO., 161 W. Congress, Detroit, Mich. (See adv. index, end of book)
Kanneberg Roofing & Ceiling Co., Canton, O.
Thomas Steel Co., Niles, O.

*Ridgings (Globe Ventilated)

GLOBE VENTILATOR CO. (Globe Ventilated Ridging), Troy, N. Y. (See adv. index, end of book)

Riding Galleries (Steam)

(See Carousels, Organs, Etc.)

Rifles (Air)

Benjamin Air Rifle & Mfg. Co., 612 N. B'way, St. Louis, Mo.
Daisy Mfg. Co. ("Daisy" and "Sentinel"), Plymouth, Mich.
Markham Air Rifle Co., Plymouth, Mich.
Quackenbush, H. M., Herkimer, N. Y.
Smith, Wm. G. & Co. ("Columbia"), 1429 N. 21st, Phila., Pa.

Rifles, Guns, Etc.

Baker Gun & Forging Co., Batavia, N. Y.
Colt's Patent Fire Arms Mfg. Co., Hartford, Conn.
Crescent Fire Arms Co. (Single & Double Barrel Shot Guns), Norwich, Conn.
Davenport, W. H. Fire Arms Co., Norwich, Conn.
Davis, N. R. & Sons (Hammerless Guns, etc.), Assonet, Mass.
Fyfeberg, Andrew & Sons, Hopkinton, Mass.
Hamilton, C. J. & Son Mfg. Co. (22 Powder Guns), Plymouth, Mich.
Harrington & Richards Arms Co. (Guns & Pistols), Worcester, Mass.
Hopkins & Allen Arms Co. (Revolvers, Rifles & Shot Guns), Norwich, Conn.
Hunter Arms Co. (Hammerless & Hammer Breech Loading Guns), Fulton, N. Y.
Ithaca Gun Co. (Hammer & Hammerless Guns), Ithaca, N. Y.
Johnson's, Iver Arms & Cycle Co. (Single Shot Guns & Revolvers, etc.), Fitchburg, Mass., & 99 Chambers, New York
Lefever Arms Co. (Automatic Hammerless Guns), Syracuse, N. Y.
Marlin Fire Arms Co. (Repeating Rifles & Shot Guns), New Haven, Conn.
Parker Bros. (Shot Guns), Meriden, Conn.
Remington Arms Co., Ilion, N. Y.
Savage Arms Co., Utica, N. Y.
Shattuck, C. S. (Hammerless Guns, etc.), Hatfield, Mass.
Smith, Otis A. (Revolvers), Rockfall, Conn.
Smith & Wesson (Revolvers), Springfield, Mass.
Stevens, J. Arms & Tool Co. (Rifles, Pistols, Shot Guns, etc.), Chicopee Falls, Mass.
Three Barrel Gun Co., Moundsville, W. Va.
Union Fire Arms Co., Toledo, O.
United States Rapid Fire Gun & Power Co. (Navy & Fortification Guns, with Ammunition for Same), Derby, Conn.
Winchester Repeating Arms Co., New Haven, Conn.

*Rigging (Yacht)

TUCKER & CARTER ROPE CO., 76 South & 167 Maiden la, New York. (See adv. index, end of book)

Rims (Automobile)

American Tube & Stamping Co. (Cylinder, etc.), Bridgeport, Conn.
American Wood Rim Co. (Wood), Bradford, Pa.
Bryant Steel Wheel & Rim Co. (Steel), Columbus, O.
G. & J. Tire Co. ("G. & J."), Indianapolis, Ind.
Garford Co. (Steel), Elyria, O.
Globe Machine & Stamping Co. (Steel), 97 Hamilton, Cleveland, O.

Hagerstown Spoke & Bending Co. (Wood), Hagerstown, Ind.
Harburg Tire Co. ("Harburg"), 232 W. 58th, New York
Jamesville Mfg. Co. (Steel), Jamesville, N. Y.
K. & C. Mfg. Co. (Wood), Henniker, N. H.
Midgley Mfg. Co., Dublin av, Columbus, Ohio
Rastalter, Louis & Son (Wood), Fort Wayne, Ind.
Republic Rubber Co. (Detachable), Youngstown, O.
Smith, A. O. Company (Steel), Clinton, bet. Park & Virginia, Milwaukee, Wis.
Standard Welding Co. (Steel "V"), 37 Cone, Cleveland, O.
Tucker Bicycle Woodwork Co. (Wood), Sidney, Ohio
Weston Motor Co. (Steel), Pleasant, Utica, N. Y.
Weston-Mott Co., Flint, Mich.

Rims & Rings (Pan Grinder)

Railway Steel Spring Co. ("Muller" Weldless Forged & Rolled Steel), 30 Church, New York

Rims (Mirror)

National Sheet Metal Co., Peru, Ill.

Ringers (Hog)

Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake, Chicago, Ill.
Stearns, E. C. & Co., Syracuse, N. Y.

*Rings (Aerial Telephone & Telegraph Wire Distributing)

STAR EXPANSION BOLT CO., 147 Cedar, New York. (See adv. index & branch offices, end of book)

Rings (Band)

Grabler Mfg. Co., Cleveland, O.

Rings (Beetle)

Oliver Iron & Steel Co., Pittsburg, Pa.

Rings (Boiler Bracket)

Desper, H. A., Worcester, Mass.

*Rings (Box)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Rings (Brass)

American Ring Co., Waterbury, Conn.
Grammes, L. F. & Sons (Plain & Screw), Allentown, Pa.
Hendryx, Andrew B. Co., New Haven, Conn.
Plume & Atwood Mfg. Co., Waterbury, Conn.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

*Rings (Bridle)

DIAMOND EXPANSION BOLT CO., 90 West, New York. (See adv. index & branch offices, end of book)

*Rings (Chalk & Mason)

TURNER & STANTON CO., Norwich, Conn. (See adv. index, end of book)

Rings (Clinch)

Falls Mfg. Co., San Francisco, Cal.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co., Wheeling, W. Va.
Rhode Island Tool Co., Providence, R. I.
Wilcox, Crittenden & Co., (Wrought & Malleable), Middletown, Conn.

Rings (Electric Lamp Socket)

Goodrich B. F. Co. (Rubber), Akron, O.
PENNSYLVANIA RUBBER CO. (Rubber), Jeanette, Pa. (See adv. index, end of book)

Rings (Fruit Jar)

(See Rubbers, Fruit Jar)

Rings (Furnace Casing)

XXth Century Heating & Ventilating Co., Akron, O.
Walworth Run Foundry Co. (Steel), Cleveland, Ohio

Rings (Grommet)

Wilcox Crittenden & Co. (Malleable Iron Galvanized), Middletown, Conn.

Rings (Harness, Etc.)

(See also Hardware Manufacturers, Saddlery)
Hobbs Mfg. Co., Worcester, Mass.
Randolph, Wm. C. (Bone, Ivory, etc.), 243 Arch, Phila., Pa.

Rings (Hinge)

Grabler Mfg. Co. (Extension, etc.), Cleveland, O.

Rings (Hitching)

Brewer Bros. (Wrought, Screw, Drill or Lead, etc.), 614 Filbert, Phila., Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Vaughn & Bushnell ("V" & "B" Steel), 875 W Carroll av, Chicago, Ill.
Wire Goods Co. (Wrought), Worcester, Mass.

Rings (Hog & Bull)

Chambers, Bering & Quinlan Co., Decatur, Ill.
Decker Mfg. Co., Keokuk, Ia.
Heesen Bros. & Co., Tecumseh, Mich.
Humason & Beckley Mfg. Co. (Rings & Punches), New Britain, Conn.
Kohler, F. E. & Co., Canton, O.
Morgan Spring Co., Worcester, Mass.
Pratt, Wm. E. Mfg. Co. ("Hill," "Blair," "Brow," "Major" & "Wolverine"), 91 Lake, Chicago, Ill.
St. Louis Screw Co. (Rings, Hog), 600 E. Clarence, St. Louis, Mo.
Smith, F. P. & Co. ("Hills," "Blair," Copper & Galvanized, Cast & Malleable Iron), Sharon Hill, Pa.
Smith, Seymour & Son (Bull Only), Oakville, Conn.

Rings (Key)

Arcade Mfg. Co. ("De Vore" Double), Freeport, Ill.
Billings & Spencer Co. ("Billing's"), Hartford, Conn.
Browne & Dowd Mfg. Co. ("Reliable" Puzzle, Clasp, "Joker"), Meriden, Conn.
Coe Mfg. Co. (Steel Ball Key Rings), 50 Warren, New York
Morden Mfg. Corporation ("Morden Perfect"), Waterbury, Conn.
NIAGARA FALLS METAL STAMPING Works ("Flexible," "Split Steel"), Niagara Falls, N. Y. (See adv. index, end of book)
Snow & Petrelli Mfg. Co., 698 Chapel, New Haven, Conn.

Rings (Marble Polishing)

Royden Marble Machinery Co. ("Royden" Polish Rings), 1 Madison av, New York

Rings (Net)

Meisselbach, A. F. & Bro. (Fishing), Newark, N. J.

Rings (Open)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Rings (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Boston Bolt Co., Boston, Mass.
Hubbard & Co., Murland bldg, Pittsburg, Pa.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
New England Bolt & Steel Co., Everett, Mass.
Oliver Iron & Steel Co., Pittsburg, Pa.
Piqua Handle & Mfg. Co. (Wood Curtain Pole, etc.), Piqua, O.
Strleby & Foote Co., Newark, N. J.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Rings (Rubber)

(See also Rubber Manufacturers, Mechanical)
B. & R. Rubber Co. (Fruit Jar), North Brookfield, Mass.

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices,
end of book)

Boston Woven Hose & Rubber Co., Executive
Office & Factory, Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co. (Fruit Jar, etc.),
Cincinnati, O.

Continental Rubber Works (Plunger Vacuum,
etc.), Erie, Pa.

DIAMOND RUBBER CO., Akron, O. (See
adv. index, end of book)

Goodrich, B. F. Co., Akron, O.
Morgan & Wright (Inc.) (For All Purposes),
Detroit, Mich.

New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

PENNSYLVANIA RUBBER CO. (For
Unions, Pumps, Lubricator, Gauge Glass,
Packing, etc.), Jeannette, Pa. (See adv.
index, end of book)

Rubber Products Co. (Jar Rings), Barberton,
Ohio

Wilkie Rubber Mfg. Co., Saugus, Mass.

Rings (Screw)

Brooks, M. S. & Sons (Brass), Chester,
Conn.

TURNER & SEYMOUR MFG. CO., Torrington,
Conn. (See adv. index, end of book)

Rings (Shower Bath)

Kelly, Thos. & Bros. ("Kelly"), Congress &
46th av, Chicago, Ill.

Rings (Shutter)

Brooks, M. S. & Sons, Chester, Conn.
Hamblin & Russell Mfg. Co., Worcester, Mass.

Rings (Socket)

Dickinson Mfg. Co., Springfield, Mass.

Rings (Steel)

Chrome Steel Works (Rolled Chrome Steel),
Chrome, N. J.

Dunne, Geo. W. & Co. (Solid), 687 Carroll av,
Chicago, Ill.

Hobbs Mfg. Co., Worcester, Mass.
Seneca Chain Co. (Wrought), Kent, O.

Sundberg, Kropp & Co. (Solid Forged), 1121
W. 21st, Chicago, Ill.

Rings (Trap Door)

Reading Hardware Co., Reading, Pa.
Stearns, E. C. & Co., Syracuse, N. Y.

Rings (Trapeze)

Wilcox, Crittenden & Co., Middletown, Conn.

Rings (Vest & Split Button)

TURNER & SEYMOUR MFG. CO., Torrington,
Conn. (See adv. index, end of book)

Rings (Welded)

Grabler Mfg. Co., Cleveland, O.

Rings (Weldless)

Crucible Steel Forge Co., Cleveland, O.
Dyson, Jas. & Sons, Cleveland, O.

Hay-Budden Mfg. Co., 254 Henry, Brooklyn,
N. Y.

Horsburgh Forging Co., Cleveland, O.
Railway Steel Spring Co. (Forged & Rolled
Steel), 30 Church, New York

Standard Steel Works Co. (For Crushing Ma-
chinery, etc.), Harrison bldg., Phila., Pa.

Rings (Wire)

North & Judd Mfg. Co. (Steel "Anchor"), New
Britain, Conn.

Parker Wire Goods Co., Worcester, Mass.
Wire Goods Co., Worcester, Mass.

Rings with Staples

Humason & Beckley Mfg. Co. (Wrought), New
Britain, Conn.

Rings (Wood)

Piqua Handle & Mfg. Co., Piqua, O.

Rivet Mfrs.

(Under this Heading see Sub-classifications)

Ames, W. & Co., 312 Wash'n, Jersey City,
N. J.

American Car & Foundry Co., 915 Olive, St.
Louis, Mo., & 165 B'way, New York

American Iron & Steel Mfg. Co., Lebanon, Pa.
American Screw Co., Providence, R. I.

Atlas Tack Co., Fairhaven, Mass.
Baker & Co. (Platinum), Newark, N. J.

Berry Bros., E. 1st av & R. R., Columbus, O.
BETTCHEE MFG. CO., Clark av., at C. C.
C. & St. L. Ry, S. W., Cleveland, O.

(See adv. index, end of book)
Blake & Johnson Co. (Iron, Steel, Brass &
Copper), Waterbury, Conn.

Boston Bolt Co., 40 Farnsworth, Boston, Mass.
Bourne & Knowles Mfg. Co. (Hot Rivets ½ &
Larger), 1231 Main, N. W., Cleveland, O.

Brown, Edw. E., Winsted, Conn.
Burden Iron Co., Troy, N. Y.

Champion Rivet Co., Cleveland, O.
Clark Bros. Bolt Co., Milldale, Conn.

Cobb & Drew (Copper, Brass & Iron), Plymouth,
Mass., & Rock Falls, Ill.

Coe Brass Mfg. Co., Torrington, Conn.
Columbus Bolt Works, Columbus, O.

Equipose Rivet Co. (Small), Waterbury, Conn.
Falls Rivet & Machine Co., Cuyahoga Falls, O.

Fort Pitt Forge Co., Pittsburg, Pa.
Garland Nut & Rivet Co., Bailey-Farrell bldg.,
Pittsburg, Pa. Works, West Pittsburg, Pa.

Grand Crossing Tack Co., S Chicago av & 79th,
Chicago, Ill.

Greenlie, Wyatt & Co., 499 Water, New York
Hassall, Jno. (Small), 171 Lafayette, New
York

Hoopes & Townsend Co., 1330 Buttonwood,
Philadelphia, Pa.

HUNGERFORD, U. T. BRASS & COP-
per Co. (Mfrs. Agts.), 497 Pearl, New York

Kansas City Bolt & Nut Co., Kansas City, Mo.
Kirk-Latty Mfg. Co., Cleveland, O.

Lamson & Sessions Co., Cleveland, O.
Lanz, Mathew, & Sons, Pittsburg, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.
Milwaukee Tack Co. (Small), Milwaukee, Wis.

Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Mount Carmel Bolt Co., Mount Carmel, Conn.

National Screw & Tack Co., Cleveland, O.
Newark Rivet Works, Newark, N. J.

New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., Everett,
Mass.

Old Dominion Iron & Nail Wks. Co., Rich-
mond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.
Phillips, Townsend & Co., N 4th & Glenwood av,
Philadelphia, Pa.

Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.
PITTSBURGH RIVET CO., 38th &
Junction R. R., Pittsburg, Pa. (See adv.
index, end of book)

Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Plymouth Mills, Plymouth, Mass.

Progressive Mfg. Co., Torrington, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.

Republic Iron & Steel Co., Pittsburg, Pa.
Richards, T. C. Hardware Co., Winsted, Conn.

Rome Brass & Copper Co. (Brass & Copper),
Rome, N. Y.

Russell & Erwin Mfg. Co., New Britain, Conn.
Scovill Mfg. Co. (Brass, etc.), Waterbury,
Scranton Roll & Nut Co., Scranton, Pa. Conn.

Sessions, J. H. & Son, Bristol, Conn.
Severance, S. Mfg. Co., Glassport, Pa.

Standard Rivet Co., 41 Lincoln, Boston, Mass.
Steel Car Forge Co., Pittsburg, Pa.

Stimpson, Edwin B., Co., 31 Spruce, New
Taunton Rivet Co., Taunton, Mass.

Thomson, Judson L. Mfg. Co., Waltham, Mass.
Tower Mfg. Co., Madison, Ind.

Townsend, C. C. & E. P., New Brighton, Pa.
Townsend, G. G., Winchendon, Mass.

Tubular Rivet & Stud Co., 87 Lincoln, Boston,
Ulster Iron Works (Inc.), Dover, N. J. Mass.

Upham, V. B. & Bro. (Aluminum, Brass, Cop-
per, Iron, etc.), 30 Hudson av, Brooklyn,
N. Y.

Upson Nut Co., Unionville, Conn., & Cleve-
land, O.

Waterbury Brass Co. (Brass, etc.), Waterbury,
Conn.

Rivet Sets

BERNZ, OTTO (Plumbers), S 13th & S
Orange av, Newark, N. J. (See adv.
index, end of book)

Braunsdorf-Hueller Co., Elizabeth, N. J.
CLEVELAND PUNCH & SHEAR WORKS
Co., Cleveland, O. (See adv. index, end of
book)

Cleveland Steel Tool Co. (Compression, Hand,
Lever, Pneumatic, Tinnings), 1144 W. 3d,
Cleveland, Ohio

Eyelet Tool Co., Boston, Mass.
Granger, David J., 25 S. Canal, Chicago, Ill.

Kraeuter & Co., Newark, N. J.
Lovejoy Tool Works, 86 E Ohio, Chicago, Ill.

Marchant, Geo F. ("New Process" Air Ham-
mer), Elizabeth & Lake, Chicago, Ill

NIAGARA MACHINE & TOOL WORKS,
Buffalo, N. Y. (See adv. index, end of
book)

Osborne, C. S. & Co. ("C. S. O. & Co."
Harness Makers, etc.), Harrison, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.
Springfield Machine Screw Co. ("Diamond"),
Chicopee, Mass.

Vaughn & Bushnell Mfg. Co., 875 W. Carroll
av, Chicago, Ill.

Riveters (Belting & Harness Re- pairing, Etc.)

Arcade Mfg. Co. ("Arcade"), Freeport, Ill.

Riveters (Hand Power)

Albree, Chester B. Iron Works Co., Pittsburg,
Pa.

Chicago Pneumatic Tool Co., Fisher bldg.,
Chicago, Ill.

Davis Mfg. Co., Milwaukee, Wis.
Heath Foundry & Mfg. Co. ("Plymouth Rock,"
Automatic), Plymouth, O.

Smith, F. H. Mfg. Co. ("Pony"), 48 St.
John's Ct., Chicago, Ill.

Williams, A. C., Ravenna, O.

Riveters (Pneumatic Compres- sion)

(See Pneumatic Compressing Riveters)

Riveting Machines

(See Machinery; also Pneumatic Riveters)

Rivets (Aluminum)

Aluminum Co. of America, Pittsburg, Pa., &
99 John, New York

Blake & Johnson Co., Waterbury, Conn.
Upham, V. B. & Bro., 30 Hudson av, Brook-
lyn, N. Y.

Rivets (Barrel)

Cobb & Drew, Plymouth, Mass., & Rock Falls,
Ill.

Falls Rivet & Machine Co., Cuyahoga Falls,
Ohio

Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood,
Phila., Pa.

Reading Screw Co., Norristown, Pa.
Townsend, G. G., Winchendon, Mass.

Rivets (Belt & Hose)

American Screw Co. (Rivets & Burrs), Provi-
dence, R. I.

Atlas Tack Co. (Copper), Fairhaven, Mass.
Bridgeport Brass Co., Bridgeport, Conn.

Coe Brass Mfg. Co., Torrington, Conn.
Falls Rivet & Machine Co., Cuyahoga Falls,
Ohio

Garland Nut & Rivet Co., Pittsburg, Pa.
Grand Crossing Tack Co., S Chicago av &
79th, Chicago, Ill.

HUNGERFORD, U. T. BRASS & COP-
per Co. (Copper), 497 Pearl, New York

National Supply Co. (Belt), Baltimore, Md.
Phillips, Townsend & Co., 4-8 Glenwood av,
Phila., Pa.

Plume & Atwood Mfg. Co., Waterbury, Conn.
Reed & Prince Mfg. Co., Worcester, Mass.

Rome Brass & Copper Co., Rome, N. Y.
Standard Rivet Co. (& for Cloth & Other Fab-
rics), 41 Lincoln, Boston, Mass.

Stimpson, Edwin B. & Son, 31 Spruce, New
York

Tower Mfg. Co. (Tinned & Coppered Iron,
Burrs & Rivets), Commerce & Elm, Cin-
cinnati, O., & Madison, Ind.

Rivets (Bifurcated)

Thomson, Judson L., Mfg. Co., Waltham,
Mass.

Rivets (Boiler & Tank)

American Equipment Co., Norristown, Pa.
American Iron & Steel Mfg. Co., Lebanon, Pa.
Atlas Tack Co., Fairhaven, Mass.
Bassett-Presley Co. ("Crown" Steel), Western Reserve bldg., Cleveland, O.
Boston Bolt Co., 40 Farnsworth, Boston, Mass.
Bourne & Knowles Mfg. Co., Cleveland, O.
Burden Iron Co. (Iron), Troy, N. Y.
Champion Rivet Co., Cleveland, O.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Fort Pitt Forge Co., Pittsburg, Pa.
FULLER BROS. & CO. (Mfrs'. Agts.), 139 Greenwich, New York

Garland Nut & Rivet Co., Pittsburg, Pa.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Jones & Laughlin Steel Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
New Castle Forge & Bolt Co., New Castle, Pa.

New England Bolt & Steel Co., 3 Charlton, Everett, Mass.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.
Pittsburg Mfg. Co., Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.

Rockford Bolt Works, Rockford, Ill.
Severence, S. Mfg. Co., Glassport, Pa.

Steel Car Forge Co. ("Xcelsior"), Pittsburg, Pa.
Ulster Iron Works (Inc.), Dover, N. J.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rivets (Brass & Copper)

Atlas Tack Co. (Rivets & Burrs), Fairhaven, Mass.

Blake & Johnson Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.

Cobb & Drew, Plymouth, Mass.
Coe Brass Mfg. Co., Torrington, Conn.

Equipoise Rivet Co., Waterbury, Conn.
Falls Rivet & Machine Co., Cuyahoga Falls, Ohio

Hassall, John (Small to Order Only), 171 Lafayette, New York

HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York

MERCHANT & EVANS CO. (Inc.), (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Newark Rivet Works, Newark, N. J.
PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)

Plume & Atwood Mfg. Co. (Copper Trunk, Razers, Brass Jacket, etc.), Waterbury, Conn.

Progressive Mfg. Co., Torrington, Conn.

Reed & Prince Mfg. Co., Worcester, Mass.

Reeves Mfg. Co., New Haven, Conn.

Rome Brass & Copper Co., Rome, N. Y.

Russell & Erwin Mfg. Co. (Brass, etc.), New Britain, Conn., & 96 Lafayette, New York

Scoville Mfg. Co. (Brass Only), Waterbury, Conn.

Taunton Rivet Co. (Copper Rivets & Burrs), Taunton, Mass.

Townsend, C. C. & E. P., Brighton, Pa.

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Upham, V. B. & Bro., c John & Hudson av., Brooklyn, N. Y.

Waterbury Brass Goods Corp'n. (Brass Only), Waterbury, Conn.

Rivets (Bridge & Structural)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Bassett-Presley Co. ("Crown" Steel), Cleveland, O.

Bourne & Knowles Mfg Co., Cleveland, O.

Cambria Steel Co., Arcade bldg., Phila., Pa.

Champion Rivet Co., Cleveland, O.

Columbus Bolt Works, Columbus, O.

Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

FOREST CITY STEEL & IRON CO., 110th, nr. Detroit av., Cleveland, O. (See adv. index, end of book)

Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.

Jones & Laughlin Steel Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
New Castle Forge & Bolt Co., New Castle, Pa.

New England Bolt & Steel Co., 3 Charlton, Everett, Mass.

Old Dominion Iron & Nail Wks Co., Richmond, Va.

Oliver Iron Steel Co., Pittsburg, Pa.

Pittsburg Forge & Iron Co., Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Republic Iron & Steel Co., Pittsburg, Pa.

Scranton Bolt & Nut Co., Scranton, Pa.

Severence, S. Mfg. Co., Glassport, Pa.

Townsend, C. C. & E. P., New Brighton, Pa.

Union Forge Co., Pittsburg, Pa.

Upham, V. B. & Bro. (For Ornamental Work), 30 Hudson av. Brooklyn, N. Y.

Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Rivets (Car)

American Car & Foundry Co., 915 Olive, St. Louis, Mo., & 165 B'way, New York

American Iron & Steel Mfg. Co., Lebanon, Pa.

Bourne & Knowles Mfg. Co., Cleveland, O.

Columbus Bolt Works, Columbus, O.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Lamson & Sessions Co., Cleveland, O.

Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.

Moran Bolt & Nut Co., St. Louis, Mo.

Oliver Iron & Steel Co., Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Republic Iron & Steel Co., Pittsburg, Pa.

Severence, S., Mfg. Co., Glassport, Pa.

Rivets (Coopers')

American Screw Co., Providence, R. I.

ATLAS BOLT & SCREW CO., THE, Marquette, opp. Hamilton av., N. E., Cleveland, O.

Berry Bros., E. 1st av. & R. R., Columbus, O.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Garland Nut & Rivet Co., Pittsburg, Pa.

Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.

Lamson & Sessions Co., Cleveland, O.

Mount Carmel Bolt Co., Mount Carmel, Conn.

National Screw & Tack Co., Cleveland, O.

Phillips, Townsend & Co., 4th & Glenwood av., Phila., Pa.

Reading Screw Co., Norristown, Pa.

Reed & Prince Mfg. Co., Worcester, Mass.

Tower Mfg. Co. (Countersunk, etc.), Commerce & Elm, Cincinnati, O., & Madison, Ind.

Waterbury Brass Goods Corporation, Waterbury, Conn.

Rivets (Draw Bar)

Illinois Bolt, Nut & Forging Co., 35th & Ashland av., Chicago, Ill.

Rivets (Galvanized)

Townsend, C. C. & E. P. Co., New Brighton, Pa.

Keystone Nail Co., Perry bldg., Pa.

Rivets (German Silver)

Blake & Johnson Co., Waterbury, Conn.

Hassall, Jno., 169 Elm, New York

Progressive Mfg. Co., Torrington, Conn.

Upham, V. B. & Bro., 30 Hudson av., Brooklyn, N. Y.

Rivets (Hame)

American Screw Co., Providence, R. I.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Garland Nut & Rivet Co., Pittsburg, Pa.

Reading Screw Co., Norristown, Pa.

Rivets (Hinge)

Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Garland Nut & Rivet Co., Pittsburg, Pa.

Rivets (Norway Iron)

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Hassall, John, 171 Lafayette, New York

Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.

Newark Rivet Works (Black, Coppered & Tinned), 146 Monroe, Newark, N. J.

Reed & Prince Mfg. Co., Worcester, Mass.

Republic Iron & Steel Co., Pittsburg, Pa.

Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

*Rivets (Ornamental Steel)

BRAUN, J. G., 322 S. Paulina, Chicago, Ill., & 537 W. 35th, New York. (See adv. index, end of book)

Rivets (Platinum)

AMERICAN PLATINUM WORKS, Chestnut st & N J R R av, Newark, N. J. (See adv. index, end of book)

Baker Co., Newark, N. J.

CROSELMIRE & ACKOR CO. (For Spark Coils), 42 Walnut, Newark, N. J. (See adv. index, end of book)

*Rivets (Platinum - Iridium)

CROSELMIRE & ACKOR CO. (For Spark Coils), 42 Walnut, Newark, N. J. (See adv. index, end of book)

Rivets (Pronged)

Standard Rivet Co. (For Fastening Leather, Cloth, etc.), 41 Lincoln, Boston, Mass.

Rivets (Ship)

(See Rivets, Boiler & Tank)

Rivets (Shovel)

Berry Bros., Columbus, O.

Falls Rivet & Machine Co., Cuyahoga Falls, Ohio

Garland Nut & Rivet Co., Pittsburg, Pa.

Reading Screw Co., Norristown, Pa.

Rivets (Stove)

Berry Bros., E. 1st av. & R. R., Columbus, O.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Garland Nut & Rivet Co., Pittsburg, Pa.

Lamson & Sessions Co., Cleveland, O.

Ohio Nut & Bolt Co., Berea, O.

Reading Screw Co., Norristown, Pa.

Rivets (Tinnings')

American Screw Co., Providence, R. I.

ATLAS BOLT & SCREW CO., THE, Marquette, opp. Hamilton av., N. E., Cleveland, O.

Atlas Tack Co., Fairhaven, Mass.

BETTCHE MFG. CO., Clark av., at C. C. & St. L. Ry., S. W., Cleveland, O. (See adv. index, end of book)

Central Stamping Co., 174 Fulton, New York

Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Garland Nut & Rivet Co., Pittsburg, Pa.

Grand Crossing Tack Co., S Chicago av. & 79th, Chicago, Ill.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.

Lamson & Sessions Co., Cleveland, O.

MERCHANT & EVANS CO. (Inc.) (Black & Tin), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Mount Carmel Bolt Co., Mount Carmel, Conn.

National Screw & Tack Co., Cleveland, O.

National Supply Co., Baltimore, Md.

Phillips, Townsend & Co., Phila., Pa.

Reading Screw Co., Norristown, Pa.

Reed & Prince Mfg. Co., Worcester, Mass.

Taunton Rivet Co., Taunton, Mass.

Tower Mfg. Co., Cincinnati, O.

Townsend, C. C. & E. P., New Brighton, Pa.

Upham, V. B. & Bro., 30 Hudson av., Brooklyn, N. Y.

Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rivets (Tire)

BETTCHE MFG. CO., Clark av., at C. C. & St. L. Ry., S W, Cleveland, O. (See adv. index, end of book)

Columbus Bolt Works, Columbus, O.

Falls Rivet & Machine Co., Cuyahoga Falls, O.

Lamson & Sessions Co., Cleveland, O.

Oliver Iron & Steel Co., Pittsburg, Pa.

Skelly, Thos. P. & Co., N 24th & Callowhill, Phila., Pa.

Rivets (Tubular)

Thomson, Judson L., Mfg. Co., Waltham, Mass.
Tubular Rivet & Stud Co., Boston, Mass.

Rivets (Wagon Box)

Oliver Iron & Steel Co., Pittsburg, Pa.

Rivets (Wire)

Falls Rivet & Machine Co., Cuyahoga Falls, O.
Reading Screw Co., Norristown, Pa.

Rivets & Burrs (Brass & Copper)

(See Rivets, Brass & Copper)

*Road Building Equipment (New & Second-Hand)

MARYLAND EQUIPMENT & SUPPLY CO.,
Calvert & Fayette, Baltimore, Md., (See
adv. index, end of book)

Road Levelers

Acme Road Machinery Co., Frankfort, N. Y.
American Harrow Co., Detroit, Mich.
American Road Machine Co., Kennett Square, Pa.
Austin Mfg. Co., Manhattan bldg., Chicago, & Harvey, Ill.
Climax Road Machine Co., Marathon, N. Y.
Hancock Iron & Steel Co. ("Harter" Road Scraper & Leveller, Findlay, O.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Ohio Road Machinery Co. ("Ohio"), Oberlin, Ohio
Sidney Steel Scraper Co. (Tongue Scraper, Leveler & Ditcher), Sidney, O.

Road Machines & Graders

Acme Road Machinery Co. (Reversible), Frankfort, N. Y.
Adams, J. D. & Co., Indianapolis, Ind.
American Road Machine Co., Kennett square, Pa.
Anderson Bridge & Scraper Co., Anderson, Ind.
Austin Mfg. Co., 315 Dearborn, Chicago, Ill., & Harvey, Ill.
Bagley Grader Co., Tacoma, Wash.
Baker Mfg. Co. ("XXth Century" Graders), Fisher bldg., Chicago, Ill.
Buffalo Steam Roller Co., Buffalo, N. Y.
Champion Road Machine Co., Kennett Square, Pa.
Climax Road Machine Co., Marathon, N. Y.
Deere & Co. (Graders), Moline, Ill.
Edwards, C. D., Albert Lea, Minn.
Good Roads Machinery Co., Kennett Square, Pa.
Indiana Road Machine Co. ("Indiana" & "National" Reversible Road Graders), Ft. Wayne, Ind.
Kilbourne & Jacobs Mfg. Co. (Graders), Columbus, O.
Marion Steam Shovel Co., Marion, O.
Moore, Joshua, Marseilles, Ill.
Ohio Road Machinery Co. ("Ohio," Reversible "Shuart," Land Graders), Oberlin, O.
Phillip, Rossman, Stockport, N. Y.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Smith & Sons Mfg. Co., Lydia & Guinotte av., Kansas City, Mo.
Stroud, T. F., & Co. (Elevating Graders), Omaha, Neb.
Universal Road Machinery Co., 120 Liberty, New York
Western Wheeled Scraper Co., Aurora, Ill.
White City Grader Co. ("Twentieth Century" Grader), White City, Kans.
Zieg, F. B., Mfg. Co., Fredericktown, O.

Road Rollers

(See Rollers, Various Kinds)

Road Scarifiers

Longenecker, Charles & Co., 150 Nassau, New York
Strain & Sanford Co. ("Torpedo"), 18 W 34th, New York
Universal Road Machinery Co. ("Porcupine"), 120 Liberty, New York

Road Scrapers (Drag & Wheel)

Acme Road Machinery Co. (Drag & Wheel), Frankfort, N. Y.
American Road Machine Co. (Drag & Wheel), Kennett Square, Pa.
American Steel Scraper Co. (Drag & Wheel), Sidney, O.
Anderson Bridge & Scraper Co. (Drag & Wheel), Anderson, Ind.
Austin Mfg. Co. (Drag & Wheel), Manhattan bldg., Chicago, & Harvey, Ill.
Champlain Agr'l Works (Drag), Champlain, N. Y.
Climax Road Machine Co. (Drag & Wheel), Marathon, N. Y.
Comstock, Geo. S. (Cast Iron Road Scoops & Scrapers), Mechanicsburg, Pa.
Donaldson Bros. (Drag), Mount Olemens, Mich.
Empire Plow Co. (Drag), Cleveland, O.
FAIRBANKS, MORSE & CO. (Drag Only), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
Fresno Agricultural Works (Drag Scrapers), Fresno, Cal.
Good Roads Machinery Co. (Drag & Wheel), Kennett sq, Pa.
Gould Co. (Drag), Chicago, Ill.
Gowanda Architectural Works (Drag Only), Gowanda, N. Y.
Hancock Iron & Steel Co. ("Harter" Road Scraper & Leveler), Findlay, O.
Herschel, R. Mfg. Co., Peoria, Ill.
Holt Mfg. Co. (Drag), Stockton, Cal.
Indiana Road Machine Co. ("Indiana" & "National" Drag & Wheel), Fort Wayne, Ind.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Kilbourne & Jacobs Mfg. Co. ("Boss," "Columbus," "Drag"), Columbus, O.
Lansing Wheelbarrow Co. (Drag & Wheel), Lansing, Mich.
Lehr Agricultural Co. (Drag), Fremont, O.
MARSH COMPANY ("Haslup" Round Back, Solid Pressed Drag Scraper & "Haslup" Wheeled), Old Colony bldg., Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
MARYLAND EQUIPMENT & SUPPLY CO., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Mechanical Mfg. Co. ("Stubbs" Wheeled), Union Stock Yards, Chicago, Ill.
SHAW, WILLIS CO. (Drag & Wheel), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
Sidney Steel Scraper Co. ("Haslup's" Drag & Wheel), Sidney, O.
Slusser-McLean Scraper Co. (Drag & Wheel), Sidney, O.
Smith & Sons Mfg. Co. ("Royal" Drag & Wheel), Kansas City, Mo.
Stewart, Frank (Drag), Washington, Iowa
Stroud, T. F. & Co., Omaha, Neb.
Syracuse Chilled Plow Co., Syracuse, N. Y.
Universal Road Machinery Co., 120 Liberty, New York
Western Wheel Scraper Co. ("Western," "Columbian" Drag & Wheel), Aurora, Ill.
Wilder, J. K. Sons (Drag), Monroe, Mich.

Roasters (Coffee & Peanut)

(See also Coffee, Peanut & Cocoa Bean Roasting Machines)

Abele, Chris., 537 W. 50th, New York
Atsatt Bros. ("Acme"), Mattapoisett, Mass.
Automatic Coffee Machine Co., West Hoboken, N. J.
Bartholomew Co. ("Stunner," "Rival," "Ripper," "Nickel Mint" & "Boss"), Peoria, Ill.
Burns, Jabez & Sons (C.), 542 Greenwich, New York
Crandall & Godley Co. (P.), 157 Franklin, New York
Crestors & Co. (P.), Chicago, Ill.
Dunbar & Co. ("Chicago"), 687 Fulton, Chicago, Ill.
Fraser Mfg. Co. (C.), 26 Cortlandt, New York
Henneman Coffee Roaster Co., Fitchburg, Mass.
Hilbert Machine Co. (P.), Cincinnati, O.
Howes, S. Co. (C.), Silver Creek, N. Y.
Kinery Mfg. Co. (C. & P.), ("Perfection" & "Automobile" Steam Power & "Little Gem" & "Climax" Spring Power), 106 E Pearl, Cincinnati, O.
Lalley, M. ("Peerless"), 213 Elm, Cincinnati, Ohio
Lambert Food & Machine Co. (C. & P.), ("Lambert"), Marshall, Mich.
Lane Bros. Co. (C.), Poughkeepsie, N. Y.

Lee, Thos. ("Lee's Boss"), 132 W 2d, Cincinnati, O.
Long, W. Z., Springfield, O.
Mills & Bro. (P.), 1301 N 8th, Phila., Pa.
Paxton Hdw. Mfg. Co. (C.), Paxton, Ill.
Reuter-Jones Mfg. Co., 1607 S. 3d, St. Louis, Mo.
Whitman Agl. Co. (C. & P.), St. Louis, Mo.

Roasters & Baking Pans

Royal Polished Steel Roaster Co. ("New Royal" Polished Sheet Steel), Troy, O.

Robes (Carriage & Lap)

American Buffalo Robe Co. (Carriage, Plush, Lap, Automobile, Baby Carriage), Buffalo, N. Y.
Ayres, Wm. & Sons (Lap), Cumberland, from 3d to 4th, Philadelphia, Pa.
Beckman Company (Carriage, Lap, Woolen), Cleveland, O.
Bishop, J. H. Co. (Carriage, Fur), Wyandotte, Mich.
Bueli Mfg. Co. (Carriage, Woolen), St. Joseph, Mo.
Chase, L. C. & Co. (Plush), Boston, Mass.
Curtis & Von Bernuth Mfg. Co. (Carriage), 88 W B'way, New York
Day, O. F. Son & Co. (Carriage), Baltimore, Md.
Goodyear Rubber Co. (Lap), 787 B'way, New York
Lane's, D. M. Sons (Carriage), Phila., Pa.
Lang Mfg. Co., Westpoint, Ga.
Newichawanick Co. (Carriages), South Berwick, Me.
North Star Woolen Mill Co. (Carriage), Minneapolis, Minn.
Peters Harness & Saddlery Co. (Lap), Newark, N. J.
Pioneer Woolen Mills (Carriage), 1020 Beau-fait av., Detroit, Mich.
Pontoosuc Woolen Mfg. Co. (Carriage, Lap), Pittsfield, Mass.
Riley, Wm. B. & Co. (Carriage, Lap & Automobile), 326 Market, Phila., Pa.
Sanford Mills (Carriage, Plush, Wool), Sanford, Me.
Saxonville Mills (Carriage), Boston, Mass.
Taylor Textile Co. (Lap), 1615 Foulkrod, Frankford, Phila., Pa.
Vehicle Apron & Hood Co., Columbus, O.

Rock Crusher Parts

(See Castings, Rock Crusher)

Rock Face Steel Siding

(See Steel Brick & Rock Face Siding)

Rock Salt Mfrs.

Retsof Mining Co., 2 Rector, New York
Wadsworth Salt Co., Wadsworth, O.

Rock & Ore Crushers

Acme Road Machinery Co., Frankfort, N. Y.
ALLIS-CHALMERS CO. ("Gates"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Concentrator Co. ("Blake," "New Century"), Basic City, Va.
American Pulverizer Co. ("American"), St. Louis, Mo.
American Road Machine Co., Kennett Square, Pa.
Austin Mfg. Co., Manhattan bldg., Chicago, Ill.
Austin-Western Co. (Ltd.), 315 Dearborn, Chicago, Ill.
Bacon, Earle C., 26 Cortlandt, New York
Bonnot Co., Canton, O.
BRADLEY PULVERIZER CO., 92 State Boston, Mass.
Calkins Co. ("Advance" Ore), Los Angeles, Cal.
Carlin Machinery & Supply Co., Allegheny, Pa.
CARLIN'S, THOS. SONS CO., 1610 River av., North Side, Pittsburg, Pa. (See adv. index, end of book)
Chalmers & Williams ("Kennedy" Gyratory, also "Blake," "Dodge"), Commercial National Bank bldg Chicago, Ill.
Climax Road Machine Co., Marathon, N. Y.
Coldwell-Wilcox Co. ("Brennan"), Newburgh, N. Y.
Cresson, Geo. V. Co. ("Buchanan" All Steel), Allegheny av. w of 17th, Phila., Pa.
Denver Engineering Works Co. (Ore), Blake & 50th, Denver, Col.

Exeter Machine Works, Pittston, Pa.
FAIRBANKS, MORSE & CO., Wabash av. & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Farrel Foundry & Machine Co. (Stone Breakers, etc.), Ansonia, Conn.
Hassell Iron Works Co., Colorado Springs, Colo.
Hendy Joshua Iron Works (Ore Rock), San Francisco, Cal.
Hoyt, L. E. & Co., Walton, N. Y.
Indiana Road Machine Co. ("Indiana," "National" & "Fort Wayne"), Fort Wayne, Ind.
JEFFREY MFG. CO. ("Jeffrey" Rotary, etc.), Columbus, O. (See adv. index & branch offices, end of book)
KOEHRING MACHINE CO., Milwaukee, Wis. (See adv. index, end of book)
Krom Machine Works (Ore), 170 B'way, New York. Works, Jersey City, N. J.
Lake Shore Engine Works, Marquette, Mich.
McFarlane Mfg. Co., Denver, Colo.
MARSH COMPANY ("Kennedy" Gyratory Crusher, Ball & Socket Eccentric), Old Colony bldg, Chicago, Ill., & 50 Church, New York
Martin, William R., Lancaster, Pa.
MARYLAND EQUIPMENT & SUPPLY CO. (New & Second Hand), Calvert & Fayette, Baltimore, Md.
Merralls Machinery Co. ("Merralls" Roll Rock Breaker & "Hercules" Ore & Rock Breaker), 1123 B'way, New York
Mine & Smelter Supply Co. (Ore), Denver, Colo.
Morse Bros. Machinery & Supply Co. ("Wild" Mill), Denver, Colo.
Pennsylvania Crusher Co. (Coal & Coke Crushers), Stephen Girard bldg, Phila., Pa.
Philadelphia Roll & Machine Co., S 23d & Wash'n av., Phila., Pa.
Phillips & McLaren ("Blake"), 24th & Smallman, Pittsburg, Pa.
Phoenix Iron Works, Portland, Ore.
Portage Lake Foundry & Machinery Co. (Rock Breakers Heavy, for Copper & Iron Mines, etc.), Hancock, Mich.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Power & Mining Co. ("McCully" Gyratory Crusher, also "Dodge"), Cudahy, Wis.
Raymond Bros. Impact Pulverizer Co., 143 Laflin, Chicago, Ill.
Schutz-O'Neill Co., Minneapolis, Minn.
SHAW, WILLIS CO. (New & Second Hand), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
SMITH, T. L. CO., Majestic bldg., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Smith & Post Co. ("Symons," Gyratory Rock Crusher), Milwaukee, Wis.
Smith & Sons Mfg. Co. ("Royal" Rock Crusher), Kansas City, Mo.
South St. Louis Foundry, 7516 S B'way, St. Louis, Mo.
SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)
Sterritt-Thomas Foundry Co. (Stone Crushers), 32d & Smallman, Pittsburg, Pa.
STROUD, E. H. & CO. (Crusher & Pulverizers), 36 La Salle, Chicago, Ill. (See adv. index, end of book)
Sturtevant Mill Co., Clayton, c. Park, Dor., Boston, Mass.
Traylor Engineering Co. (T. E. Co. "Blake"), Allentown, Pa.
Union Iron Works Co., San Francisco, Cal.
Universal Road Machinery Co. ("Reliance" Stone Crusher), 120 Liberty, New York

Universal Stone Crusher Co. ("Universal," "Velten"), Cedar Rapids, Ia.
Walker & Elliot (Phosphate), Wilmington, Del.
Webb City & Carthage Foundry & Machine Works ("Blake" Crushers), Webb City, Mo.
West'n Wheeled Scraper Co. (Rock), Aurora, Ill.
Williams Patent Crusher & Pulverizer Co. (Quartz Rock), 2706 B'way, St. Louis, Mo.
YAGLE FOUNDRY & MACHINE CO., (Ltd.) ("Blake"), 400 32d, Pittsburg, Pa. (See adv. index, end of book)

Rods (Aluminum)

Aluminum Co. of America, Pittsburg, Pa.
Electric Smelting & Aluminum Co., Lockport, N. Y.
LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)
Scoville Mfg. Co., Waterbury, Conn.

Rods (Anchor)

American Iron & Steel Mfg. Co., Lebanon, Pa.
AMOS, CHAS. & CO., 94 W Larned, Detroit, Mich. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Graham Nut Co., W Carson, nr Point Bridge, Pittsburg, Pa.
Hubbard & Co., Pittsburg, Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
Klein, Mathias & Son (For Gny Wires), 87 W Van Buren, Chicago, Ill.
Lanz, Mathew & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Bolt & Nut Co., Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburg, Pa. (See adv. index, end of book)
Pawtucket Mfg. Co., Pawtucket, R. I.
Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.

Rods (Awning)

Oliver Iron & Steel Co., Pittsburg, Pa.

Rods (Bessemer Coppered)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co., Youngstown, Ohio

Rods (Black Steel)

Kidd Bros. & Burgher Steel Wire Co., Aliquippa, Pa.

*Rods (Brace)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Rods (Brake Lever Connecting)

American Iron & Steel Mfg Co., Lebanon, Pa.

Rods (Brass & Copper)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York
Bristol Brass Co. (Brass Only), Bristol, Conn.
Chase Rolling Mill Co., Waterbury, Conn.
Chicago Brass Co. (Brass Only), Kenosha, Wis.
Chicago Screw Co. (High Brass Only), 519 Homan av., Chicago, Ill.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills (Also Bronze), Detroit, Mich.
French Mfg. Co. (Irregular Shapes & Solid Drawn), Waterbury, Conn.
Griswold Co. (Copper Only), Sterling, Ill.
Hendricks Bros. (Copper Only), 49 Cliff, New York
HUNGERFORD, U. T. BRASS & COPPER CO. (Yellow Metal & Tobin Bronze), 497 Pearl, New York
Manhattan Brass Co., 338 E 28th, New York
MERCHANT & EVANS CO. (Inc.), (Jobbers), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
New Jersey Tube Co. (Brass Only), Harrison, N. J.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Reeves, Paul S. & Son (Red & Yellow Brass, Do Not Make Copper Rods), 1415 Catharine, Phila., Pa.
Rome Brass & Copper Co., Rome, N. Y.
Scovill Mfg. Co. (Brass Only), Waterbury, Conn.
Taunton-New Bedford Copper Co. (Copper, Yellow Metal), New Bedford & Taunton, Mass.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Rolling Mills (Inc.), Waterbury, Conn.

Rods (Bridge & Roof)

American Iron & Steel Mfg. Co., Lebanon, Pa.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Columbus Bolt Works, Columbus, O.
Dietrich Bros., 344 North, Baltimore, Md.
Dunne, Geo. W. & Co., 687 Carroll av., Chicago, Ill.
Frelinger, J. G., 115 W. 2nd, Cincinnati, O.
Graham Nut Co., Pittsburg, Pa.
Hedden Iron Construction Co., 22 Clinton, Newark, N. J.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
Kansas City Bolt & Nut Co., Kansas City, Mo.
KRATZER, W. N. & CO., 3218 Smallman, Pittsburg, Pa. (See adv. index, end of book)
Kropp, A. & Co., 52 Law av., Chicago, Ill.
Lake Erie Iron Co., Wade bldg, Cleveland, O.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
National Bolt & Nut Co., Pittsburg, Pa.
National Supply Co., 7 W. Lombard, Baltimore, Md.
Neely Nut & Bolt Co., S 22d & P. & L. R. R., Pittsburg, Pa.
New Castle Forge & Bolt Co., New Castle, Pa.
New England Bolt & Steel Co., Everett, Mass.

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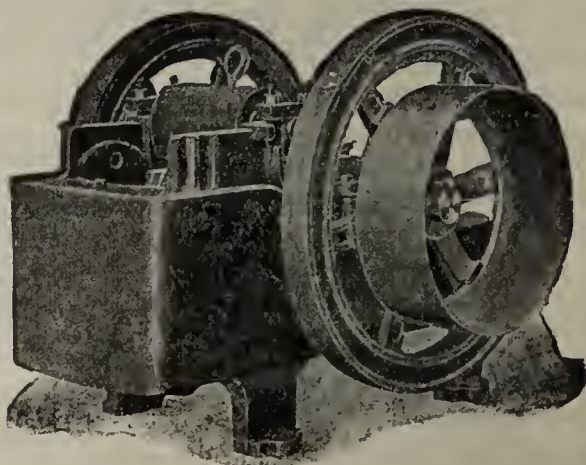
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 Pittsburgh Forge & Iron Co., Pittsburgh, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)
 Preble, Edward, 103 Summer, E. B., Boston, Mass.
 Republic Iron & Steel Co., Pittsburgh, Pa.
SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburgh, Pa. (See adv. index, end of book)
 Scranton Bolt & Nut Co., Scranton, Pa.
 Smith, Thos. & Co., Worcester, Mass.
 Wendt, Albert, 456 E 2d, Cincinnati, O.
 Wichita Mfg. Co., Wichita, Kan.
WORDEN-ALLEN CO., P. O. Box 528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

*Rods (Bridle)

DIAMOND EXPANSION BOLT CO., 90 West, New York. (See adv. index & branch offices, end of book)

Rods (Camber)

American Iron & Steel Mfg. Co., Lebanon, Pa.

Rods (Chair)

Lamson & Sessions Co. (Gimlet Point), Cleveland, O.
 National Screw & Tack Co., Cleveland, O.
 Reed & Prince Mfg. Co. (Wood Screw Point, Flat Head), Worcester, Mass.

Rods (Conduit Wiring & Cleaning)

Bissell, F. Co. ("Security"), Toledo, O.
 Cope, T. J., 1445 Westmoreland av., Phila., Pa.
DIAMOND EXPANSION BOLT CO. ("Empire"), 90 West, New York. (See adv. index & branch offices, end of book)
 Driggs, C. V., New York
 Meckel, Fred L., 77 E 13th, Chicago, Ill.
 Mullin, Coleman J. Co. ("Mandrel"), 432 Kent av., Brooklyn, N. Y.
 Nagel, W. G. Electric Co. ("Ready"), Toledo, Ohio
 Stevens Mfg. Co., Woodbury, N. J.

Rods (Connecting)

ANDERSON FORGE & MACHINE CO., 271 Guion, Detroit, Mich. (See adv. index, end of book)
 Bethlehem Steel Co., South Bethlehem, Pa.
 Boston Forge Co., 340 Maverick, E. B., Boston, Mass.
 Cambria Steel Co., Arcade bldg., Phila., Pa.
 Carnegie Steel Company, Pittsburgh, Pa.
 Chester Steel Casting Co., 407 Sansom, Philadelphia, Pa., & Chester, Pa.
 Crucible Steel Co. of America, Frick bldg., Pittsburgh, Pa.
 Dunne, Geo. W. & Co., 687 Carroll av., Chicago, Ill.
 Electric Welding Products Co., Cleveland, O.
 Erie Forge Co. (Forged), Erie, Pa.
 Graham Nut Co., 755 Rebecca, Allegheny, Pa.
 Jones & Laughlin Steel Co., Pittsburgh, Pa.
 Keystone Drop Forge Works, Chester, Pa.
 Midvale Steel Co., Nicetown, Phila., Pa.
 National Bolt & Nut Co., Pittsburgh, Pa.
 Otis Steel Co., Cleveland, O.
PAGE-STORMS DROP FORGE CO. (Drop Forged), Chicopee, Mass. (See adv. index, end of book)
 Pettibone, Mulliken & Co., 204 Dearborn, Chicago, Ill.
 Pittsburgh Mfg. Co., 28th & R. R., Pittsburgh, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)
 Reading Iron Co., Reading, Pa.
 Richmond Forgings Corporation (Drop Forged), Belle Isle, Richmond, Va.
 Standard Connecting Rod Co., Beaver Falls, Pa.
 Sundberg, Kropp & Co., 1121 W. 21st, Chicago, Ill.
 Tloga Steel & Iron Co., 52d & Gray's av., Philadelphia, Pa.
 Titusville Forge Co., Titusville, Pa.
 Transne & Williams Co. (Drop Forged), Alliance, O.
 Union Drop Forge Co. (Drop Forged), Chicago, Ill.

Rods (Coppered Bessemer)

Pittsburg Shafting Co. of Detroit, Detroit, Mich.

Rods (Curtain)

Barrett, Chas. R. Co. ("Barrett" Flexible), 32 Union sq., New York
 Linton, W. H. Co. (Brass, Steel & Plated Extension), Ogdensburg, N. Y.
 Ludlow-Saylor Wire Co., St. Louis, Mo.
 Ossawan Mills Co., Norwich, Conn.
 Parker Wire Goods Co., Worcester, Mass.
 Pullman Mfg. Co. (Coil Spring), Rochester, N. Y.
 Spencer Wire Co., Worcester, Mass.
 Standard Development Co. ("Barrett" Flexible), 52 State, Chicago, Ill.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 Wire Goods Co., Worcester, Mass.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Rods (Dock)

Continental Bolt & Iron Works, 22d & Union, Chicago, Ill.
 Kropp, A. & Co., 52 Law av., Chicago, Ill.
 National Bolt & Nut Co., Pittsburgh, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)

Rods (Drill)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
 Crucible Steel Co. of America (Polished, Scoured & Lime-Finished Steel), Frick bldg., Pittsburgh, Pa.
 Damascus Tool Steel Co., Pittsburgh, Pa.
FRASSE, PETER A. & CO. (Also High Speed), 130 Worth, New York. (See adv. index & branch offices, end of book)
 Globe Wire Co. (Polished), Sharpsburg, Pa.
 Halcomb Steel Co. (Crucible Steel), Syracuse, N. Y.
 Kidd Bros. & Burgher Steel Wire Co. (Polished, Square & Special), Aliquippa, Pa.
 Logan Iron & Steel Co. (Iron), Burnham, Pa.
 National Tube Co. ("Shelby" Seamless Steel Tubing), Pittsburgh, Pa.
OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)
 Pittsburg Shafting Co. of Detroit, Detroit, Mich.
 Pittsburg Tool & Wire Co. ("Monaca," "Champion"), Monaca, Pa.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

Rods (End Measuring)

Brown & Sharpe Co., Providence, R. I.

Rods (Extension Sash Curtain)

Linton, W. H. Co. (Brass & Steel), Ogdensburg, N. Y.

Rods (Eye)

American Iron & Steel Mfg. Co., Lebanon, Pa.
ANDERSON FORGE & MACHINE CO., 271 Guion, Detroit, Mich. (See adv. index, end of book)
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lanz, M. & Sons, 101 S 29th, Pittsburgh, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 National Bolt & Nut Co., Pittsburgh, Pa.
 National Supply Co., Baltimore, Md.
 New Castle Forge & Bolt Co., New Castle, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)
 Republic Iron & Steel Co., Pittsburgh, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.

Rods (Fibre)

(See Fibre, Hard)

Rods (Fishing)

Horton Mfg. Co. ("Bristol," "Rainbow," "Luckie" Steel), Bristol, Conn.
 Martin Automatic Fish Reel Co., Mohawk, N. Y.

Montague City Rod Co., Montague City, Mass.
 New Century Rod & Bolt Co. ("New Century" Telescope Casting Rod, etc.), Holland, Mich.
 Standard Fishing Rod Co. ("Grover Cleveland" Fly & Bolt Rod, Split Bamboo, Calcutta, Lancewood, etc.), West Brookfield, Mass.
 Union Hardware Co. (Steel), Torrington, Conn.

Rods (German Silver)

Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bridgeport Brass Co., Bridgeport, Conn.
 Bristol Brass Co., Bristol, Conn.
 Plume & Atwood Mfg. Co., Waterbury, Conn.
 Reeves, Paul S., & Son, 1415 Catharine, Phila., Pa.
 Riverside Metal Co., Riverside, N. Y.
 Scovill Mfg. Co., Waterbury, Conn.
 Seymour Mfg. Co., Seymour, Conn.
 Waterbury Brass Co., Waterbury, Conn.

Rods (Glass)

(See Tubing, Glass)

Rods (Gun Cleaning)

(See Tools, Gun Cleaning & Reloading)

Rods (Gun Screw)

Independent Steel & Wire Co., Pittsburgh, Pa.

Rods (Guy)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Lanz, M., & Sons, Carson & 29th, Pittsburgh, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 National Bolt & Nut Co., Pittsburgh, Pa.
 Oliver Iron & Steel Co., Pittsburgh, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)

Rods (Hard Fibre)

(See Fibre Manufacturers, Hard)

Rods (Hollow Drill)

Seamless Tube Co. of America (Seamless Cold Drawn Steel), Pittsburgh, Pa.

Rods (Manganese Bronze)

American Manganese Bronze Co., 99 John, New York
 Reeves, Paul S., & Son (Rolled), 1415 Catharine, Phila., Pa.

Rods (Measuring)

Aloe, A. S. Co., 513 Olive, St. Louis, Mo.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Keuffel & Esser Co., 127 Fulton, New York
 Pratt & Whitney Co., Hartford, Conn.
 Seott, Olin (U. S. Standard), Bennington, Vt.

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Rods (Phosphor Bronze)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Phosphor Bronze Smelting Co., 2204 Washington, av., Philadelphia, Pa.
 Reeves, Paul S. & Sons (Rolled), 1415 Catharine, Phila., Pa.
 Riverside Metal Co., Riverside, N. Y.

Rods (Piston)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Bethlehem Steel Co., South Bethlehem, Pa.
 Boston Forge Co. (Steel), 340 Maverick, E. B., Boston, Mass.
 Braeburn Steel Co. (Steel), Braeburn, Pa.
 Cambria Steel Co. (Cold Drawn), Arcade bldg., Phila., Pa.
 Carnegie Steel Company, Pittsburgh, Pa.
 Carbon Steel Co., Pittsburgh, Pa.
 Columbia Steel & Shafting Co., Pittsburgh, Pa.
 Crucible Steel Co. of America, Frick bldg., Pittsburgh, Pa.

Helmbacher Forge & Rolling Mill Co., Wainwright bldg, St. Louis, Mo.
 Jones & Laughlin Steel Co. (Cold Rolled Steel), Pittsburg, Pa.
 Midvale Steel Co., Nicetown, Phila., Pa.
 Phosphor Bronze Smelting Co. (Ltd.), 2200 Washington av. Phila., Pa.
 Reading Iron Co., Reading, Pa.
 Reeves, Paul S., & Son (Red & Yellow Brass, Bronze, also "Tubal" Manganese, Phosphor & Acid Resisting Bronze), 1415 Catharine, Phila., Pa.
 Republic Iron & Steel Co. (Cold Drawn Polished Steel), Pittsburg, Pa.
 Standard Steel Works, Harrison bldg., Phila., Pa.
 Sullivan Engineering Co. ("Sullivan" Self-Centering), Poughkeepsie, N. Y.
 Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.
 Tioga Steel & Iron Co., 52d & Gray's av., Phila., Pa.
 Titusville Forge Co., Titusville, Pa.
 Union Drawn Steel Co. (Cold Rolled Steel & Iron), Beaver Falls, Pa., & 460 Washington, New York

Rods (Platinum)

(See Platinum. Sheet & Wire)

Rods (Pump)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Brightman Mfg. Co. (Galvanized), Shelby, O.
 Columbia Steel & Shafting Co., Pittsburg, Pa.
 Finished Steel Co. (Polished Steel), Youngstown, O.
 Jones & Laughlin Steel Co. (Cold Rolled Steel), Pittsburg, Pa.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Reeves, Paul S., & Son (Red & Yellow Brass, Bronze, also "Tubal" Manganese, Phosphor & Acid Resisting Bronze), 1415 Catharine, Phila., Pa.
 Republic Iron & Steel Co. (Cold Drawn Polished Steel), Pittsburg, Pa.
 Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.
 Union Drawn Steel Co. (Cold Rolled Steel & Iron), Beaver Falls, Pa., & 460 Washington, New York

*Rods (Rake)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Rods (Ram)

Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

Rods (Resistance)

DIXON, JOS. CRUCIBLE CO. ("Dixon's Graphite"), Jersey City, N. J. (See adv. index & branch offices, end of book)
 Wirt, Chas. & Co. ("Di-el-ite"), 4901 Stenton av, Gtn., Phila., Pa.

Rods (Roller Bearing)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Kidd Bros. & Burgher Steel Wire Co., Alliquippa, Pa.
 Union Drawn Steel Co. (Cold Drawn High Carbon Steel), Beaver Falls, Pa., & 460 Washington, New York
 Washburn Wire Co., Phillipsdale, R. I., & 118 E. R., New York

Rods (Rubber)

(See Rubber Rods & Sheets)

Rods (Sash Curtain)

TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 Wire Goods Co. (Adjustable), Worcester, Mass.

Rods (Screw)

AMERICAN STEEL & WIRE CO., Commercial Nat'l B'k bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Cambria Steel Co. (Cold Drawn & Cold Rolled, etc.), Arcade bldg., Phila., Pa.
 Finished Steel Co. (Polished Steel), Youngstown, O.
 Kidd Bros. & Burgher Steel Wire Co. (Polished), Alliquippa, Pa.
 Reading Screw Co., Norristown, Pa.

Rods (Side)

Carbon Steel Co., Pittsburg, Pa.
 Helmbacher Forge & Rolling Mill Co., St. Louis, Mo.
 Standard Steel Works, Harrison bldg, Phila., Pa.

Rods (Stair)

Carter Stair Rod Co., Altoona, Pa.
 Gould's M. Son & Co. (Brass & Bronze), 83 Reade, N. Y., & 61 Hamilton, Newark, N. J.
 Newark Stair Rod Mfg. Co., Newark, N. J.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)
 Walker, D. Mfg. Co., Newark, N. J.

Rods (Stove)

Adams Company (Slotted Heads), Dubuque, Ia.
 American Screw Co., Providence, R. I.
ATLAS BOLT & SCREW CO., THE, Marquette, opp. Hamilton av, N E, Cleveland, O.
 Berry Bros. (and Seat), Columbus, O.
 Chicago Nut Co., 118 W Jackson boul, Chicago, Ill.
 Corbin Screw Corporation, New Britain, Conn.
 Fanner Mfg. Co., Cleveland, O.
 Kirk-Latty Mfg. Co., Cleveland, O.
 Lamson & Sessions Co., Cleveland, O.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 Mount Carmel Bolt Co., Mount Carmel, Conn.
 National Screw & Tack Co., Cleveland, O.
 National Surety Co., Baltimore, Md.
 Ohio Nut & Bolt Co., Berea, O.
 Reed & Prince Mfg. Co., Worcester, Mass.
 Troy Nickel Works, Albany, N. Y.
 Upson Nut Co., Unionville, Conn.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & E. R., New York

Rods (Sucker)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Chapman Sucker Rod Co., Washington, Pa.
 Coss & Stinebaugh, Lima, O.
 Columbus Sucker Rod Co. (Wood, for Oil & Water Wells), Columbus, Ohio
 Dresser & Boothe, Bradford, Pa.
 Findlay Sucker Rod Co., Findlay, O.
 Kile, S. & W. L., Mansfield, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Shannon & Wilson, Corry, Pa.
 Welnman Machine Works (Wood), Columbus, Ohio

Rods (Tedder)

(See Rods, Rake)

Rods (Tie)

American Equipment Co., Norristown, Pa.
 American Iron & Steel Mfg. Co., Lebanon, Pa.
 Ames, W. & Co., Jersey City, N. J.
CHAMPION IRON CO. (Beam), Kenton, O. (See adv. index, end of book)
 Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
 Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
 Mulvey, Chas., Mfg. Co., 1331 35th, Chicago.
 National Bolt & Nut Co., Pittsburg, Pa. Ill.
 National Supply Co., Baltimore, Md.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 Pawtucket Mfg. Co., Pawtucket, R. I.
 Penna. Iron Co., Lancaster, Pa.
 Republic Iron & Steel Co., Pittsburg, Pa.
 Scranton Bolt & Nut Co., Scranton, Pa.
 Solid Steel Tool & Forge Co., Brackenridge, Pa.
 Steel Car Forge Co. (Upset or Plain Threaded). Frick bldg, Pittsburg, Pa. Works: Ellwood City, Pa.

Rods (Truss)

(See Rods, Bridge & Roof)

Rods (Upset)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Continental Bolt & Iron Works, 23d & Union, Chicago, Ill.
 Fort Pitt Forge Co., Pittsburg, Pa.
 Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.
 Illinois Bolt, Nut & Forging Co., 35th & Ashland av, Chicago, Ill.
 Michigan Bolt & Nut Works, Detroit, Mich.
 National Bolt & Nut Co., Pittsburg, Pa.
 New Castle Forge & Bolt Co., New Castle, Pa.
 Old Dominion Iron & Nail Works Co., Richmond, Va.
 O'Leary, Arthur J. & Sons Co., 128 W Lake, Chicago, Ill.
 Oliver Iron & Steel Co., Pittsburg, Pa.
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)
 Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Rods (Ventilator Controlling)

Peters, Jas. & Son, 1934 N Front, Phila., Pa.

*Rods (Vulcanized Fibre)

(See also Fibre, Hard)

AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)

Rods (Watch Screw)

Kidd Bros. & Burgher Steel Wire Co. (Polished), Alliquippa, Pa.

Rods (Wire)

AMERICAN STEEL & WIRE CO., (Of Open Hearth & Bessemer Steel), Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Ashland Steel Co. (Bessemer Steel), Ashland, Ky.
 Atlanta Steel Co. (Open Hearth Steel), At-Carpenter Steel Co., Reading, Pa. Ianta, Ga.
 Colorado Fuel & Iron Co., Denver, Col.
 Crucible Steel Co. of America (Crucible Steel; also in Colls), Pittsburg, Pa.
 Damascus Tool Steel Co., Pittsburg, Pa.
 Grand Crossing Tack Co. (Bessemer & Open Hearth), S. Chicago av & 79th, Chicago, Ill.
 Griswold Co. (Steel & Iron), Sterling, Ill.
 Illinois Steel Co., Commercial Bank bldg., Chicago, Ill.
 Independent Steel & Wire Co., Pittsburg, Pa.
 Kidd Bros. & Burgher Steel Wire Co. (Polished Steel Rods), Alliquippa, Pa.
 Kokomo Steel & Wire Co. (Small), Kokomo, Ind.
 McCoy & Linn Iron Co. (Soft Charcoal Iron), Milesburg, Pa.
 Page Woven Wire Fence Co., Monessen, Pa.
 Pittsburg Steel Co., Pittsburg, Pa.
 Roebling's, Jno. A. Sons Co. (Of New York), Trenton, N. J.
 Southern Steel Co., Birmingham, Ala.
TRENTON IRON CO. (Also Nail), Trenton, N. J., & 30 Church, New York. (See adv. index, end of book)
 Washburn Wire Co., Phillipsdale, R. I.
 Wickwire Bros., Cortland, N. Y.
 Youngstown Sheet & Tube Co., Youngstown, O.

Rods (Wood Saw)

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Rods (Zinc)

Edes Mfg. Co., Plymouth, Mass.
 Lanyon Zinc Co., Iola, Kans.
MERCHANT & EVANS CO. (Inc.) (For Battery & Other Purposes), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Rods & Rams (Steel Hammer)

Bethlehem Steel Co., South Bethlehem, Pa.
 Tioga Steel & Iron Co., 52d & Gray's av, Phila., Pa.

Roll Bars & Bed Plates (Paper Mill Engine)

American Knife Co., Baldwinville, N. Y.
Hankey, A., & Co., Rochdale, Mass., & 1213 Race, Phila., Pa.
Simonds Mfg. Co., Fitchburg, Mass.

Roll Grinding & Corrugating

Acme Mill Works, Greensboro, N. C.
ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)
Am. Metallic Packing Co., Lexington, Ky.
Barnard-Syphers Machinery Co., Spokane, Wash.
Barnard & Leas Mfg. Co., Moline, Ill.
Barry-Wehmiller Machine Co., St. Louis, Mo.
Bollinger Bros., 133 1st av. Pittsburg, Pa.
Capitol Iron Works, Topeka, Kans.
Harrisburg Roll Grinding & Corrugating Co., Harrisburg, Pa.
Jackson Flour Mills Machinery Mfg. Co., Jackson, Mich.
Nashville Machine Co., Nashville, Tenn.
Portland Iron Works, Portland, Ore.
Rochester Roll Grinding & Corrugating Co., 218 Mill, Rochester, N. Y.
Salem Foundry & Machine Works, Salem, Va.
Silver Bros. Iron Works Co., Salt Lake City, Utah
Starr, B. F. Co., 445 North, Baltimore, Md.
Straub Machinery Co., 1956 W 8th, Cincinnati, O.
Strong-Scott Mfg. Co., Minneapolis, Minn.

Roller Coasters

Ingersoll Construction Co., Pittsburg, Pa.

*Roller Skate Parts

WORCESTER PRESSED STEEL CO.
Worcester, Mass. (See adv. index, end of book)

Roller & Pulverizer Combined

Brooks & Stuckwisch, Indianapolis, Ind.
Bucher & Gibbs Plow Co., Canton, O.
Buffalo Steam Roller Co., Buffalo, N. Y.
Fulton Machine Co. ("The Cyclone"), Canal Dover, O.
Macgowan & Finigan, St. Louis, Mo.
Ohio Cultivator Co. (Sizes 6, 7½, 9, 12 ft.),
Peterson Mfg. Co., Kent, O. Bellevue, O.

Rollers (Barn Door)

Arnold Co., Norwalk, Conn.
Cheney, S. & Son, Manlius, N. Y.
Griffin Mfg. Co., Erie, Pa.
Myers, F. E., & Bro., Ashland, O.
National Mfg. Co. (Stay), Sterling, Ill.
New England Butt Co., Providence, R. I.
Wrightsville Hardware Co., Wrightsville, Pa.

Rollers (Barn Door, Stay)

Myers, F. E., & Bro., Ashland, O.
National Mfg. Co., Sterling, Ill.
Richards Mfg. Co., Aurora, Ill.

Rollers (Cable)

(For Pulling in Cables)

Cope, T. J., 1445 Westmoreland av. Phila., Pa.
Matthews, N. W. & Bro. ("Callahan"), St. Louis, Mo.

Rollers (Concrete)

Buffalo Steam Roller Co., Buffalo, N. Y.
Kraus Bros. Foundry Co. ("Gem" Hand
Rollers for Cement Sidewalks), Dayton, O.
RANSOME CONCRETE MACHINERY
Co., Dunellen, N. J. (See adv. index &
branch offices, end of book)

Rollers (Copper Printing)

(See Textile Machinery, Etc.)

Rollers (Drawer, Ball Bearing)

Pressed Steel Mfg. Co. ("Knipe"), The
Bourse, Phila., Pa.

Rollers (Electric Cable)

Matthews, W. N. & Bro. (Malleable Iron, for
Putting Up Heavy Cables), St. Louis, Mo.

Rollers (Flue)

(See Expanders, Tube)

Rollers (House Movers')

Temple Pump Co., 15 W. 15th pl, Chicago, Ill.

Rollers (Incline)

Gustafson Mfg. Co., Chattanooga, Tenn.

Rollers (Land & Field)

Allen, E. R., Corning, N. Y.
Almy, Samuel & Son, Trumansburg, N. Y.
American Bell & Foundry Co., Northville, Mich.
American Road Machine Co., Kennett Square, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Arnold's, W. G. Son, Iona, Mich.
Avery, B. F. & Sons, Louisville, Ky.
Barley, Thos. K., Sedalia, Mo.
Bauch, Freak (Cast Iron), Alliance, O.
Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
Bradley, David Mfg. Co., Bradley, Ill.
Brennan & Co., Louisville, Ky.
Brooks & Stuckwisch, Indianapolis, Ind.
Bucher & Gibbs Plow Co. (Steel, T-Bar, Tubular, Clod Crushers & Pulverizers), Canton, O.
Buch's, A. Sons, Elizabethtown, Pa.
Buffalo Steam Roller Co., Buffalo, N. Y.
Burr, E. M. Co., Champlain, Ill.
Clipper Plow Co., Defiance, O.
Comstock, Geo. S. (Steel & Wood, Double), Mechanicsburg, Pa.
Cooley Bros. (Miller Steel), Richmond, Mich.
Daverkosen, H., Janesville, Wis.
Davis Mfg. Co., Flushing, Mich.
Deats, Hiram, Jr., Pittstown, N. J.
Deutscher, H. P. Co., Hamilton, O.
Donaldson Bros. (Iron & Wooden), Mount Clemens, Mich.
Drusdieker Foundry & Mfg. Co. (Clod Crushers & Pulverizers), Pekin, Ill.
Dunham, J. W. & Son (Steel Frame Pulverizer), Berea, O.
Eddy, W. Plow Co., Greenwich, N. Y.
Everets & Co., Meridian, N. Y.
Fulton Machine Co., Canal Fulton, O.
Gale Mfg. Co. (Steel or Wood Frame), Albion, Mich.

Genesee Valley Mfg. Co., Mount Morris, N. Y.
Gowanda Agricultural Works, Gowanda, N. Y.
Greencastle Mfg. Co., Greencastle, Pa.
Greenville Implement Co., Greenville, Mich.
Harder Mfg. Co., Cobleskill, N. Y.
Harrison, W. R. & Co., Massillon, O.
Hazen, W. S. & Marshall, Ripon, Wis.
Hench & Dromgold Co., York, Pa.
Howland Mfg. Co., Pontiac, Mich.
I. C. I. Co. (Combined Harrow & Roller), Ann-
onia Wagon Co., Ionia, Mich. ville, Pa.
Keystone Farm Machine Co. (Steel or Oak
Drum), York, Pa.
Lean, Roderick Mfg. Co. (Steel Land & Corn),
Lee, R. E., Almont, Mich. Mansfield, O.
Lehr Agricultural Co. (Steel Shell), Fremont,
Little, O. J., Deckertown, N. J. Ohio
Lovejoy, H. H. & Son, Cambridge, N. Y.
Macgowan & Finigan, St. Louis, Mo.
Martinsburg Foundry Co., Martinsburg, Pa.
Messinger Mfg. Co., Tatamy, Pa.
Monitor Mfg. Co., Minneapolis, Minn.
Munnsville Plow Co. (Steel or Wood), Munnsville, N. Y.
New York Agricultural Co., 51 Cliff, New York & Boonton, N. J.

Ohio Cultivator Co., Bellevue, O.
Ohio Rake Co., Dayton, O.
Osborne, D. M. & Co., Auburn, N. Y.
Patten & Stafford Co., Canastota, N. Y.
Peek, S. H., E. Aurora, N. Y.
Peterson Mfg. Co., Kent, O.
Ripson, Wm. & Son, Youngstown, N. Y.
Rock Island Plow Co., Rock Island, Ill.
Schoepflin, Chas., Gardenville, N. Y.
Sellers, Edw., Oak Hall Station, Pa.
Sheer Engine Co., Lincoln, Ill.
Sherwin, E. C. & Son, Brandon, Wis.
Standard Harrow Co., Utica, N. Y.
Sweet, Geo. Mfg. Co., Danville, N. Y.
Stewart, A. T. Co., Carnegie, Pa.
Talt, F. B. Mfg. Co., Decatur, Ill.

Tanner, D. F., Holland, N. Y.
Thompson, J. & Sons Mfg. Co., Beloit, Wis.
Thornburgh Mfg. Co., Bowling Green, O.
Toledo Plow Co., Toledo, O.
Turner, Geo. O. P., Churchville, N. Y.
Van Buren, S. C., Carey, O.
Watkins Chilled Plow Co., Watkins, N. Y.
Weaver Mfg. Co., New Oxford, Pa.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Works Co., St. Louis, Mo.
Wilder-Strong Implement Co., Monroe, Mich.
Willbaum Bros., Brookville, O.
Williams Bros., Ithaca, N. Y.
Woodhouse, J. S., 191 Water, New York
Yorks, W. R., Honeoye Falls, N. Y.

(Rollers (Lawn Mower)

Piqua Handle & Mfg. Co. (Wooden), Piqua, O.

Rollers (Lawn & Garden)

Allen, E. R., Corning, N. Y.
American Road Machine Co., Kennet Square, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Bausman, D. H., Bausman, Pa.
Bradley, David Mfg. Co., Bradley, Ill.
Brennan & Co., Louisville, Ky.
Buch's, A. Sons Co. ("Keystone"), Elizabethtown, Pa.
Buffalo Steam Roller Co., Buffalo, N. Y.
Donaldson Bros., Mount Clemens, Mich.
Dunham, J. W. & Son, Berea, O.
Eddy, W. Plow Co., Greenwich, N. Y.
Foster, C. A. Novelty Co., Elkhart, Ind.
Gowanda Agricultural Works, Gowanda, N. Y.
Johnston & Field Mfg. Co., Racine, Wis.
Kelly-Springfield Road Roller Co. (Steam), Springfield, O.
Lansing Wheelbarrow Co., Lansing, Mich.
Messinger Mfg. Co., Tatamy, Pa.
Mott, J. L. Iron Works, 118 5th av, New York
Palmer, O. F., Utica, N. Y.
Patten & Stafford Co., Canastota, N. Y.

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end of book)

Supplee Hardware Co., 503 Market, Phila., Pa.
Thornburgh Mfg. Co., Bowling Green, O.
Van Dorn Iron Works Co., Cleveland, O.
Westervelt, A. B. & W. T., 102 Chambers, New York
Whitehurst, R. W. & Co., Norfolk, Va.
Whitman Agricultural Works Co., St. Louis, Mo.
Wilder-Strong Implement Co., Monroe, Mich.

Rollers (Paper Hangers')

Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Webster & Perks Tool Co. ("Simplex"), Springfield, O.

Rollers (Paper Machine)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
Goodrich, B. F. Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Peerless Rubber Co., 16 Warren, New York
Republic Rubber Co., Youngstown, O.
Revere Rubber Co., Boston, Mass.
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Rollers (Pipe)

Grabler Mfg. Co. (Cast Iron, also Roller Hangers & Bolts, etc.), Cleveland, O.

Rollers (Plate Glass)

Stortz, John, & Son, 210 Vine, Phila., Pa.

Rollers (Pudding)

Universal Road Machinery Co. ("Universal" for Reservoir & Embankment Work), 120 Liberty, New York

Rollers (Reversible Road)

Buffalo Steam Roller Co., Buffalo, N. Y.
Climax Road Machine Co., Marathon, N. Y.
Enterprise Mfg. Co., Columbiana, O.

Rollers (Road, Horse Power)

Acme Road Machinery Co., Frankfort, N. Y.
American Harrow Co., Detroit, Mich.

American Road Machine Co., Kennett Square, Pa.
 Ames Plow Co., Quincy Hall, Boston, Mass.
 Austin Mfg. Co., Manhattan bldg, Chicago, Ill., & Harvey, Ill.
 Buffalo Steam Roller Co., Buffalo, N. Y.
 Climax Road Machine Co., Marathon, N. Y.
 Enterprise Mfg. Co., Columblana, O.
 Grand Rapids Bridge Co. ("Economy"), Comstock Park, Mich.
 Indiana Road Machine Co. ("Indiana"), Fort Wayne, Ind.

MARYLAND EQUIPMENT & SUPPLY CO., (New & Second Hand), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
 Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
 Pope, Richard C., 510 Pine, St. Louis, Mo.
 Universal Road Machinery Co. (Plain & Reversible), 120 Liberty, New York

Rollers (Rubber Covered)

BOSTON BELTING CO. ("Forsyth"), 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
 Cleveland Rubber Works, Cleveland, O.
 Continental Rubber Works, Erie, Pa.
 Empire Rubber Mfg. Co., Trenton, N. J.
 Goodrich, B. F., Co., Akron, O.
 Gutta Percha & Rubber Co., Trenton, N. J.
 Manhattan Rubber Mfg. Co., 18 Vesey, New York
 Mechanical Rubber Co., 73 Reade, New York
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
 Peerless Rubber Mfg. Co., 16 Warren, New York
 Plymouth Rubber Co., Stoughton, Mass.
 Republic Rubber Co., Youngstown, O.
 Revere Rubber Co., Boston, Mass.
 Wilkie Rubber Mfg. Co., Saugus, Mass.

Rollers (Shade)

American Extensive Shade Roller Mfg. Co., Kewanee, Ill.
 Columbia Shade Cloth Co., 27 W. 24th, New York
 Cowles, C. & Co. (Inc.), (Carriage, etc.), New Haven, Conn.
 Edwards, O. M. Co. (Car, Window, etc.), Syracuse, N. Y.
 Hartshorn-Stewart Co., Newark, N. J.
 Haviland Shade Roller Co., 407 Broome, New York
 Judd, H. L. Co., 87 Chambers, New York
 Keystone Shade Roller Co., Saginaw, Mich.
 Metal Finishing Co., Union City, Conn.
 Minette Shade Cloth Co. (Spring), Oswego, N. Y.
 Quaker Shade Roller Co., Saginaw, Mich.
 Vermont Shade Roller Co., Burlington, Vt.
 Wemple, Jay C., Co., 35 E. 20th, New York

Rollers (Steam Asphalt)

Buffalo Steam Roller Co., Buffalo, N. Y.
 Iroquois Iron Works ("Iroquois"), Buffalo, N. Y.
 Kelly-Springfield Road Roller Co., Springfield, Ohio
 Universal Road Machinery Co., 120 Liberty, New York

Rollers (Steam Golf Course)

Buffalo Steam Roller Co., Buffalo, N. Y.
 Iroquois Iron Works, Buffalo, N. Y.
 Kelly-Springfield Road Roller Co., Springfield, Ohio

Rollers (Steam Road)

Acme Road Machinery Co., Frankfort, N. Y.
 Austin-Western Co., Ltd. (Motor Driven, Gasoline or Alcohol), Chicago, Ill.
 Buffalo Steam Roller Co. ("Buffalo-Pitts"), Buffalo, N. Y.
CARLIN'S, THOS. SONS CO. (New & Second Hand), 1610 River av, North Side, Pittsburg, Pa. (See adv. index, end of book)
 Case, J. I. Threshing Machine Co., Racine, Wis.
 Erie Machine Shops, Erie, Pa.
 Iroquois Iron Works, Buffalo, N. Y.
 Kelly-Springfield Road Roller Co., Springfield, Ohio
 Longenecker, Chas. & Co., 150 Nassau, New York

MARYLAND EQUIPMENT & SUPPLY CO., (New & Second Hand), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
 Monarch Road Roller Co. ("Monarch"), 114 Liberty, New York
 Pioneer Machine Works (Jas. Hartley, Prop.), 75 Delavan, Brooklyn, N. Y.
 Port Huron Engine & Thresher Co., Port Huron, Mich.
SHAW, WILLIS CO. (New & Second Hand), 171 La Salle, Chicago, Ill. (See adv. index, end of book)
 Strain & Sanford Co., 18 W 34th, New York
 Universal Road Machinery Co. ("Universal"), 120 Liberty, New York

Rollers (Towel)

(See Racks, Hat, Coat & Towel)

*Rollers (Trolley)

(See also Fibre, Hard)

AMERICAN VULCANIZED FIBRE CO., (Fibre), Wilmington, Del. (See adv. index, end of book)
DELAWARE HARD FIBRE CO. (Hard Fibre), Wilmington, Del. Works; Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere, Del. (See adv. index, end of book)

Rollers (Wood)

Nashua Spool & Bobbin Co., Boston, Mass.
 Southern Roller, Stave & Heading Co. (Black Gumwood), Elizabeth City, N. C.

Rolling Mills (Brass & Copper)

(See also Rolling Mills, Iron & Steel)

American Tube Works, Boston, Mass.
 Ansonia Brass & Copper Co., Ansonia, Conn.
 Baltimore Copper Smelting & Rolling Co., Baltimore, Md.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bridgeport Brass Co., Bridgeport, Conn.
 Bristol Brass Co., Bristol, Conn.
 Buffalo Copper & Brass Rolling Mills, Buffalo, N. Y.
 Chase Rolling Mill Co., Waterbury, Conn.
 Chicago Brass Co., Kenosha, Wis.
 Coe Brass Mfg. Co., Torrington, Conn.
 Crucible Steel Co. of Am., Pittsburg, Pa.
 Detroit Copper & Brass Rolling Mills, Detroit, Mich.
 Eureka Tempered Copper Works, North East, Pa.
 Hendricks Bros., 59 Cliff, New York
 Hussey, C. G., & Co., Pittsburg, Pa.
 Manhattan Brass Co., 338 E 28th, New York
 Michigan Copper & Brass Co., Detroit, Mich.
 New Haven Copper Co. (Copper Only), Seymour, Conn.
 New Jersey Tube Co., Harrison, N. J.
 Nichols Copper Co., 25 Broad, New York
 Randolph-Clowes Co., Waterbury, Conn.
 Rome Brass & Copper Co., Rome, N. Y.
 Scoville Mfg. Co. (Brass Only), Waterbury, Conn.
 Seymour Mfg. Co., Seymour, Conn.
 Taunton-New Bedford Copper Co., New Bedford, Mass. & Taunton, Mass.
 Waterbury Brass Co., Waterbury, Conn.
 Waterbury Rolling Mill (Inc.), Waterbury, Conn.

Rolling Mills (Continuous)

Morgan Construction Co., Worcester, Mass.
 Standard Machinery Co., Providence, R. I.
 United Engineering & Foundry Co., Farmers Bank bldg, Pittsburg, Pa.

Rolling Mills (Iron & Steel)

(See also Brass & Copper Rolling Mills)

(References following Names indicate Main or Executive Offices. For sub-classification of this industry, see Specific Article Wanted in Index of Contents)

ALABAMA.

BIRMINGHAM—Republic Iron & Steel Co. (See Pittsburg, Pa.)
 Sloss-Sheffield Steel & Iron Co.
 Southern Steel Co. (Billets, Blooms, Slabs, Pig Iron, Wire, Rods, Fencing, Nails, Staples, etc.)

Tennessee Coal, Iron & R. R. Co. (Steel Billets, Blooms, Slabs, Angles, Channels, Tees, Bar, Plates, Sheets, etc.)
GATE CITY—Republic Iron & Steel Co. (See Pittsburg, Pa.)
SHEFFIELD—Sloss-Sheffield Steel & Iron Co. (See Birmingham, Ala.)

CALIFORNIA.

LOS ANGELES—California Industrial Co. Merchants Bar Iron, Bolts, Nuts, etc.)
SAN FRANCISCO—Judson Mfg. Co. (Bar Iron, Shafting, Tacks, Nails, etc.)
 Pacific Hardware & Steel Co. (Bar & Band Iron), Works, Portland, Ore.

COLORADO.

DENVER—Colorado Fuel & Iron Co. (Billets, Blooms, Iron & Steel Rails, Bars, Sheets, Angles, Channels, Tees, Plate Bands, Hoops, etc.)
PUEBLO—Colorado Fuel & Iron Co. (See Denver)

CONNECTICUT.

BRIDGEPORT—American Tube & Stamping Co. (Open Hearth Steel Billets, Hot & Cold Rolled Strip Steel, Crucible Steel for Springs, Cutlery, etc.)
 Farist Steel Co. (Merchants' Crucible & Open Hearth Steel of All Kinds, Excepting Sheets)
COLLINSVILLE—Collins Co. (Bar Iron all Consumed by the Company)
NEW BRITAIN—Stanley Works (Cold Rolled Strip Steel)
NEW HAVEN—New Haven Iron & Steel Co. (Bar Iron & Steel, Nut & Bolt Rods, Horse Shoe & Staybolt Iron, Open Hearth Soft Steel, Small Steel Channels, etc.)
SOUTHINGTON—Aetna Nut Co. (Merchants' Bar Iron, Nuts, Washers, etc.)
UNIONVILLE—Union Rolling Mill Co. (Merchant Bar Iron), See Cleveland, O.

DELAWARE.

NEWPORT—Marshall Iron Co. (Sheet Iron & Tin Plate)
WILMINGTON—McCullough Iron Co. (Sheet Steel, Black Galvanized Painted & Corrugated Roofing & Siding)

DISTRICT OF COLUMBIA.

GIESBORO MANOR—Firth-Sterling Steel Co. (See McKeesport, Pa.)

GEORGIA.

ATLANTA—Atlanta Steel Co. (Steel Bands, Hoops, Cotton Ties, Bars, etc.)

ILLINOIS.

BELLEVIEW—Hartman, Hay & Reis (Shovel, Nail & Tack Plate, Cut Nails, etc.)
CHICAGO—Aermotor Company (Wrought Iron Pipe), W 12th & Campbell av
AMERICAN STEEL & WIRE CO. (Steel Wire, Rods & Nails, Spikes, Staples, Tacks, Barbed Wire, Bale Ties, Horse Shoes, Plates & Sheets of Open Hearth Steel, Shafting, Cold Drawn Steel, Poultry Netting, Wire Rope, Wire Hoops, Wire Springs, etc.), Rookery bldg. (See adv. index & branch offices, end of book)
 Calmet Steel Co. (Bessemer Bar Steel, Light Rails, Angles, Channels, etc.), Commercial Bank bldg
 Grand Crossing Tack Co. (Open Hearth Steel Billets, Rods & Wire Mills), S. Chicago av & 79th
 Illinois Steel Co. (Billets, Blooms, Slabs, Ingots, Structural Shapes, Rails, Plates, Bars, Tees, etc.), 115 Adams
 Indiana Steel Co. (Open-hearth Billets, Blooms, Ingots, Rails, Bars, Structural Shapes, Plates, etc.), Commercial Bank bldg
 Inland Steel Co. (Open Hearth Steel Blooms, Billets, Slabs, Structural Angles, Channels & Beams, Universal Plates, Merchant Bars, Plates, Sheets, Galvanized Sheets, Corrugated Sheets, Roofing & Bessemer Steel Bars, Special Sections, Harrow Teeth, Cross Arm Braces, Pole Steps, etc.), 1st Nat'l Bank bldg
 International Harvester Co. of America (Agl. Implement Mfrs., etc.)

Interstate Iron & Steel Co. (Iron & High Carbon & Soft Steel Bars, Agricultural Implement Steel, Angles, Channels, Tees, Reinforcing Steel Bars, etc.), 1st Nat. Bank bldg. Works: East Chicago, Ind., & Cambridge, O.

Phoenix Horse Shoe Co. (Bar Iron & Horse Shoes): Mills, Joliet, Ill., & Poughkeepsie, N. Y.

Pullman Co. (Product all Consumed by the Company)

Republic Iron & Steel Co. (See Pittsburgh, Pa.)

Sellers Mfg. Co. (Splice Bars, Tie Plates, etc.), 27 W Chicago av

Simonds Mfg. Co. (Crucible Saw Plates & Sheets, all Consumed by the Company, 16th & Western av. Main Office: Fitchburg, Mass.

Western Steel Car & Foundry Co. (Merchant Bars). Old Colony bldg.; Works, Anniston, Ala.

CHICAGO HEIGHTS—Calumet Steel Co. (See Chicago, Ill.)

Columbia Tool Steel Co. (Crucible Tool & Machinery Steel)

Inland Steel Co. (See Chicago)

EAST ST. LOUIS—Republic Iron & Steel Co. (See Pittsburgh, Pa.)

St. Louis Steam Forge & Iron Works (Bar Iron & Forgings, etc.)

EVANSTON—Mark Mfg. Co. (Wrought Iron Pipe Boiler Tubes, etc.)

GRANITE CITY—National Enameling & Stamping Co. (See New York)

JOLIET—American McKenna Process Co. (See Milwaukee, Wis.)

Illinois Steel Co. (See Chicago, Ill.)

Joliet Iron Products Co. (Round & Square Bar Iron, Flats, Angles & Shapes)

Phoenix Horse Shoe Co. (See Chicago, Ill.)

KEWANEE—National Tube Co. (See Pittsburgh, Pa.)

MOLINE—Republic Iron & Steel Co. (See Pittsburgh, Pa.)

ROCKFORD—Pioneer Steel Co. (Soft Center Steel)

STERLING—Dillon Co. (Steel Wire, Rods & Nails)

WAUKEGAN—American Steel & Wire Co. (See Chicago)

INDIANA.

ANDERSON—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)

American Steel & Wire Co. (See Chicago)

ATLANTA—Atlanta Tin Plate & Sheet Mill Co. (See Indianapolis)

EAST CHICAGO—Interstate Iron & Steel Co. (See Chicago, Ill.)

Republic Iron & Steel Co. (See Pittsburgh, Pa.)

ELWOOD—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)

GARY—Indiana Steel Co. (See Chicago, Ill.)

GAS CITY—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)

INDIANA HARBOR—Inland Steel Co. (See Chicago)

Ward-Dickey Steel Co. (Open Hearth Planished Sheet Steel)

INDIANAPOLIS—Atlanta Tin Plate & Sheet Mill Co. (Sheets & Black Plates for Tinning)

KOKOMO—Kokomo Steel & Wire Co. (Steel Wire, Rods & Nails, etc.)

LINTON—Linton Rolling Mill Co. (Steel Rails 12 to 40 lbs., Splices & Track Spikes)

MUNCIE—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)

Republic Iron & Steel Co. (See Pittsburgh, Pa.)

NEW ALBANY—Ohio Falls Iron Co. (Merchants' Bar & Staybolt Iron)

NEW CASTLE—Indiana Rolling Mill Co. (High Carbon Sheet Steel)

TERRE HAUTE—Highland Iron & Steel Co. (Merchants' Bar Iron & Steel)

VINCENNES—National Rolling Mill Co. (Scrap Bar & Finished Iron & Steel Bar)

KENTUCKY.

ASHLAND—Ashland Steel Co. (Bessemer Steel Billets & Slabs, Wire Rods, Sheet & Tin Plate Bars, etc.)

Job Iron & Steel Co. (Black & Galvanized Sheet Iron & Steel, Bar Iron & Sheet & Tin Plate Bars)

Norton Iron Works, Inc. (Cut & Wire Nails, Wire & Wire Rods, Nail Plates)

COVINGTON—Licking Rolling Co. (Bar Iron, Sheet Iron, Shafting, etc.)

LOUISVILLE—Ewald Iron Co. (Charcoal Boiler, Fire Box, Flange & Sheet Iron & Bloom Bar)

NEWPORT—Andrews Steel Co. (Open Hearth Billets, Slabs, Ingots, Sheet & Tin Plate Bars)

Newport Rolling Mill Co. (Black & Galvanized Sheet Steel)

MARYLAND.

BALTIMORE—Canton Iron & Steel Co. (Muck Bar & Merchant Bar Iron)

CANTON—Canton Iron & Steel Co. (See Baltimore, Md.)

CUMBERLAND—Cumberland Steel Co. (Cold Rolled Steel, Polished Steel Shafting, etc.)

Maryland Rail Co. (Renewed Light Steel Rails)

Taylor, N. & G. Co. (See Phila., Pa.)

SPARROWS POINT—Maryland Steel Co. (See Phila., Pa.)

MASSACHUSETTS.

BOSTON—Ames Shovel & Tool Co. (Shovel Plate & Blanks, all consumed by the Company). Mills, Beaver Falls, Pa., & Elwood, Ind.

Sylvester Co. (Merchant Bar Iron, Spikes, Bolts, Tie Rods), 70 Kilby

Tremont Nail Co. (Percha Steel, Ingots, Slabs, Nail & Tack Plates & Nails & Spikes). (See West Wareham, Mass.)

HOLYOKE—Prentiss, G. W. & Co. (Wire, etc.)

SPENCER—Spencer Wire Co. (See Worcester, Mass.)

WEST WAREHAM—Tremont Nail Co. (See Boston, Mass.)

WORCESTER—AMERICAN STEEL & Wire Co. (Washburn & Moen Branch). See Chicago. (See adv. index, end of book)

COES, LORING & CO. (Inc.) (Hot Rolled & Welded Materials for Knives, Dies, etc.). (See adv. index, end of book)

Morgan Spring Co. (Wire for all Purposes & Wire Nails, etc.)

Spencer Wire Co. (Iron & Bessemer Steel Wire of All Kinds; Fine Steel Wire a Specialty)

WRIGHT WIRE CO. (Annealed, Bright, Coppered, Tinned & Galvanized Wire) (See adv. index, end of book)

MICHIGAN.

ADRIAN—Page Woven Wire Fence Co. (See Monessen, Pa.)

DETROIT—American Car & Foundry Co. (See St. Louis, Mo.)

Detroit Seamless Steel Tubes Co. (Cold Drawn Seamless Steel Tubes)

Railway Steel Spring Co. (See New York)

KALAMAZOO—Harrow Spring Co. (Milled Steel Bars & Spring Steel, etc.)

MISSOURI.

KANSAS CITY—Kansas City Bolt & Nut Co. (Bar Iron, Bolts, Nuts, etc.)

ST. LOUIS—American Car & Foundry Co. (Bar Iron, etc.), 915 Olive

Granite Iron Rolling Mills (Owners, National Enameling & Stamping Co.), 3400 N 2nd. (See New York)

Helmbacher Forge & Rolling Mill Co. (Merchants' Bar Iron & Band, Rod & Guide Iron)

Hirsch Rolling Mill Co. (Bar Iron & Steel, Angles, Shapes, Spikes, Bolts, Light-Rails, etc.)

Western Forge Co. (Bar Iron & Forgings), 520 Olive

NEW JERSEY.

BOONTON—Boonton Iron & Steel Co. (Bar Iron & Angles)

CHROME—Chrome Steel Works (Steel Plates, Angles & Bars, etc.)

DOVER—Ulster Iron Works (Merchant Bar & Staybolt Iron)

ELIZABETH—Singer Sewing Machine Co. (Product Rounds, Flats, etc., all Consumed by the Company)

HIGH BRIDGE—Taylor Iron & Steel Co. (Muck Bar for Car & Locomotive Axles, Shafts, etc.)

JERSEY CITY—Ames, W. & Co. (Bar Iron, Bolts, Tie Rods, Spikes, etc.)

Crucible Steel Co. of America (Spalding & Jennings, Branch). (See Pittsburgh, Pa.)

KINKORA—Roebbling's, Jno. A. Sons Co. (See Trenton, N. J.)

NEWARK—Heller Bros. Co. (High Speed Tool Steel)

PERTH AMBOY—Pardee, C. Works (Open Hearth Steel Billets, Blooms, Merchant Bars & Cold Rolled Shafting, etc.)

PHILLIPSBURG—American Horse Shoe Co. (High Grade Horse Shoes, etc.)

ROCKAWAY—Rockaway Rolling Mills (Bar Iron & Steel, also Double Refined Bar Iron)

TRENTON—Roebbling, Jno. A. Sons Co. (Steel & Copper Wire & Steel Wire Rods & Nails, etc.)

Trenton Iron Co. (Iron & Steel Wire of all kinds, Wire Rope, Bar Iron, etc.)

NEW YORK.

AUBURN—International Harvester Co. of America (Agricultural Implement Mfrs., etc.), Osborne Plant. (See Chicago, Ill.)

Tuttle, Chas. W. (Merchant Bar Iron & Horse Shoe Iron)

BUFFALO—Lackawanna Steel Co. (Steel Billets, Blooms, Rails, Beams, Anchor Bars, etc.)

New York State Steel Co. (4-in. x 4-in. Open Hearth Steel Billets, Blooms & Slabs), White hldg

Niagara Forged Steel Co. (Open Hearth Steel Billets for Forging, etc.)

Seneca Iron & Steel Co. (Black & Galvanized Sheet Steel)

COHOES—Cohoes Rolling Mill Co. (Wrought Iron Pipe & Merchant Bar Iron)

CORTLAND—Wickwire Bros. (Billets, Ingots, Wire, Nails, Rods & Staples, etc.)

DUNKIRK—Atlas Steel Co. (High Grade Crucible Steels)

ELMIRA HEIGHTS—Elmira Rolling Mill Co. (Refined Iron & Steel Bars)

LOCKPORT—Westerman & Co. (Horse Shoe Iron, Rounds, Squares, Hexagons & Fancy Shapes)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Igoe Bros. (Steel Wire & Nails), 69 Metropolitan av

Miller & Van Winkle (Cold Rolled Steel & Steel Wire), 20 Bridge

Wnrster, F. W. & Co. (Inc.) (Iron & Steel Bars, Axles, etc.), 375 Kent av

Boroughs of Mannattan & Bronx.

NEW YORK—Baldwin Steel Co. (Crucible Tool Steel, Air Harding, High Speed Die Blocks, etc.), 133 Reade. Mills, Charles-ton, W. Va.

Dnplex Metals Co. (Copper & Bronze Clad Steel), 149 B'way. Works, Chester, Pa.

Illingworth, John Steel Co. (Crucible Hammered & Re-rolled Steel Bars & Sheets for Tools, Saws, Knives & Files, etc.), 25 Cliff. Mills, Phila., Pa.

Jessop Steel Co., 91 John. Mills, Washington, Pa.

Lalance & Grosjean Mfg. Co. (Black Sheets, Plates & Tin Plate, all Consumed by the Company), 299 B'way. Mills; Harrisburg, Pa.

Manhattan Rolling Mills (Inc.), (Refined Bar Iron & Horse Shoes), 362 Ave. A.

National Enameling & Stamping Co. (Mfrs. Sheet Steel for their Own Consumption), 374 B'way. Works, Granite, Ill., & St. Louis, Mo.

Philadelphia Forge Co. (Rolled Rounds, Squares, etc., Forged Oil Blocks, Shafts, etc.), 50 Church. Works, Phila., Pa.

Rail Joint Co. (Bars, Rail Joints, Tram Rails). Works, Troy, N. Y.

Railway Steel Spring Co. (Open Hearth Steel Ingots, Merchant Steel Tire & Spring Steel, etc.), 30 Church

Singer Mfg. Co., 149 B'way. Works: Elizabeth, N. J.

Washburn Wire Co. (Steel Wire, etc.), ft. E 118th. (See Providence, R. I.)

(End of New York City)

POUGHKEEPSIE—Phoenix Horse Shoe Co. (See Chicago)

ROME—Rome Merchant Iron Mills (Merchant Bar, Puddled Iron & Band, Hoop, Staybolt & Horse Shoe Iron)

SYRACUSE—Crucible Steel Co. of America (Sanderson Bros. Works, Tool Steel). (See Pittsburgh, Pa.)

Eckels-Nye Steel Co. (Merchant Steel)

Halcomb Steel Co. (Crucible & High Grade Steel)

TONAWANDA—Buffalo Steel Co. (Bessemer Steel Bars, Agricultural Steel, Angles, Channels, etc.)
TROY—Burden Iron Co. (Bar Iron, Horse Shoes, Boiler Rivets, etc.)
 Rail Joint Co. (See New York)
WATERVLIET—Ludlum Steel & Spring Co. (Pure Carbon Crucible Tool Steel)

OHIO.

BELLAIRE—Carnegie Steel Co. (See Pittsburgh, Pa.)
BRIDGEPORT—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
CAMBRIDGE—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
AMERICAN STEEL & WIRE CO. (See Chicago.) (See adv. index, end of book)
 Interstate Iron & Steel Co. (See Chicago, Ill.)
CANAL DOVER—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
 Dover Forge & Iron Co. (Iron Forging, Billets, Charcoal Blooms, Iron Sheet Bars, Charcoal Iron Tin Plate Bars, etc.)
CANTON—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
BERGER MFG. CO., THE (Sheet Iron & Steel, etc.). (See adv. index, end of book)
 Carnahan Tin Plate & Sheet Co. (Tin & Terne Plate & Sheet Steel for Tinning, etc.)
 Stark Rolling Mill Co. (Sheet Iron & Steel, etc.)
 United Steel Co. (Skelp, Slabs, Billets, Basic Open Hearth Steel Sheet Bar & Universal Plate)
CINCINNATI—Cincinnati Horse Shoe Co. (Horse Shoes & Bar Iron). Works, Hoover, O.
CLEVELAND—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
 American Steel & Wire Co. (See Chicago, Ill.)
 Cleveland Hardware Co. (Manufacture for their Own Consumption)
 Cleveland Steel Co. (Light Steel Plates & Sheets, etc.)
 Empire Rolling Mill Co. (Iron & Steel Bar)
Lake Erie Iron Co. (Bar Iron, Bolts, Nuts, etc.)
 Otis Steel Co. (Open Hearth Steel Billets, Blooms, Ingots, Bar, Plates, etc.)
 Republic Iron & Steel Co. (See Pittsburgh, Pa.)
 Union Rolling Mill Co. (Refined Bar Iron; also Bolt, Nut, Rivet & Bridge Iron)
COLUMBUS—Carnegie Steel Co. (See Pittsburgh, Pa.)
 Columbus Steel Co. (Cold Rolled Steel Bars, Sheets, Strips, etc.)
 Standard Chain Co. (See Pittsburgh, Pa.)
CUYAHOGA FALLS—Falls-Hollow Staybolt Co. (Hollow & Solid Staybolt Bars, Staybolts, etc.)
DRESDEN—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
ELYRIA—Columbia Steel Co. (Cold Rolled Steel Bars, Sheets, Strips, etc.)
 Elyria Iron & Steel Co. (High Carbon Steel, Angles, Tubing, Track Spikes, etc.)
HOOVEN—Cincinnati Horse Shoe Co. (See Cincinnati, O.)
IRONTON—Belfont Iron Works Co. (Cut & Wire Nails, Barbed, Plain & Galvanized Wire)
 Kelly Nail & Iron Co. (Cut & Wire Nails, Spikes, Staples, Barbed, Plain & Galvanized Wire)
LORAIN—National Tube Co. of Ohio. (See Pittsburgh, Pa.)
MANSFIELD—National Sheet Steel Co. (High Grade Open Hearth Steel & Iron Sheets)
MASSILLON—Massillon Rolling Mills Co. (Steel Sheet Plates)
 Republic Iron & Steel Co. (See Pittsburgh, Pa.)
MARTINS FERRY—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
 Whitaker-Glessner Co. (See Wheeling, W. Va.)
MIDDLETOWN—AMERICAN ROLLING Mill Co. (Sheet Iron & Steel, Black & Galvanized, etc.)
MINGO JUNCTION—Carnegie Steel Co. (See Pittsburgh, Pa.)
NEW PHILADELPHIA—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
NILES—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
 Carnegie Steel Co. (See Pittsburgh, Pa.)

Empire Iron & Steel Co. (Wrought Iron & Steel Sheets & Corrugated Sheets)
 Thomas Steel Co. (Black & Galvanized Iron & Steel Sheet)
NORWALK—Norwalk Steel & Iron Co. (Steel Bars, Forgings & Plates, Plow, Jail & Vault & Tool Steel, etc.)
PORTSMOUTH—Portsmouth Steel Co. (See Wheeling, W. Va.)
PIQUA—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
SALEM—American Steel & Wire Co. (See Chicago, Ill.)
SHELBY—Ohio Seamless Tube Co. (Seamless Steel Tubing)
STEUBENVILLE—La Belle Iron Works (Pipe & Tube Mills, Steel Sheet Bar, Steel Skelp, Cut Nails, Spikes, Pig Iron, etc.)
 Pope Tin Plate Co. (See Pittsburgh, Pa.)
STRUTHERS—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
TOLEDO—Republic Iron & Steel Co. (See Pittsburgh, Pa.)
WELLSVILLE—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
YOUNGSTOWN—Republic Iron & Steel Co. (See Pittsburgh, Pa.)
 Youngstown Sheet & Tube Co. (Iron & Steel Sheet, Black & Galvanized, Wrought Iron Pipe, Wire Rods, Billets, Muck Bar, Skelp, Pig Iron, etc.)
 Youngstown Iron & Steel Roofing Co. (Sheet Iron & Steel, Black & Corrugated Roofing & Siding, etc.)
ZANESVILLE—American Rolling Mill Co. (See Middletown, O.)
 Mark Mfg. Co. (Wrought Iron Pipe & Boiler Tubes)

OREGON.

PORTLAND—Pacific Hardware & Steel Co. (See San Francisco, Cal.)

PENNSYLVANIA.

ALBUQUERQUE—Crucible Steel Co. of America. (See Pittsburgh)
 Jones & Laughlin Steel Co. (See Pittsburgh, Pa.)
 Kidd Bros. & Burger Steel Wire Co. (Steel Wire, Polished Drill Rods, Polished Needle Wire, Black Steel Rods, etc.)
 Vulcan Crucible Steel Co. (High Grade Crucible & Acid Open Hearth Steel & Forged Products, etc.)
ALLENTOWN—American Steel & Wire Co. (See Chicago, Ill.)
ALTOONA—Altoona Iron Co. (Bar, Hoop, Band & Oval, Half Oval, Round & Scroll Iron, etc.)
AMBRIDGE—American Bridge Co. (See Pittsburgh, Pa.)
AUBURN—Delaware Seamless Tube Co. (Hollow Seamless Billets, Boiler Tubes, Hollow Staybolt Stock & Seamless Tubing)
AVONMORE—Alcania Co. (See Pittsburgh, Pa.)
BEAVER FALLS—Ames Shovel & Tool Co. (See Boston, Mass.)
 Pittsburgh Seamless Tube Co. (Seamless Steel Tubes & Steel Blanks for Mfg. of Steel Tubes)
 Union Drawn Steel Co. (Cold Rolled Steel, Cold Drawn & Polished Steel Shafting, etc.)
BIRDSBORO—Brooke, E. & G. Iron Co. (Muck Bar, Skelp Iron & Cut Nails)
BLANDON—Blandon Rolling Mills (See Est. of Simon Seyfert, Reading, Pa.)
BRACKENRIDGE—Allegheny Steel Co. (See Pittsburgh, Pa.)
 Reliance Tube Co. (Ltd.). (See Pittsburgh, Pa.)
BRADDOCK—American Steel & Wire Co. (See Chicago, Ill.)
 Carnegie Steel Co. (See Pittsburgh, Pa.)
BRAEBURN—Braeburn Steel Co. (Crucible & Fine Open Hearth Tool Steel, Spring, Hammer & Machinery Steel & Forgings, etc.)
BRISTOL—Bristol Iron & Steel Co. (See Phila., Pa.)
BURNHAM—Logan Iron & Steel Co. (Bar & Staybolt Iron, Iron Angles, Crow Bars, Links & Pins, Drill Rods, etc.) (See Phila., Pa.)
 Standard Steel Works (See Phila., Pa.)
BUTLER—Standard Steel Car Co. (See Pittsburgh, Pa.)
CANONSBURG—Canonsburg Steel & Iron Works (Sheet Iron & Steel, Tin & Terne Plate, etc.)
 Standard Tin Plate Co. (Tin & Terne Plate)

CARNEGIE—Damascus Tool Steel Co. (See Pittsburgh, Pa.)
 Superior Steel Co. (See Pittsburgh, Pa.)
CATASAUQUA—Bryden Horse Shoe Co. (Horse Shoes & Horse Shoe Bars)
CHESTER—Duplex Metals Co. (See New York)
 Sontb Chester Tube Co. (Wrought Iron Pipe)
CLEARFIELD—Clearfield Steel & Iron Co. (See Pittsburgh, Pa.)
COATESVILLE—Coatesville Rolling Mills Co. (Boiler Tubes)
 Lukens Iron & Steel Co. (Open Hearth Billets, Ingots, Slabs, Steel Boiler, Tank & Bridge Plates, Sheared & Universal Plates)
 Worth Bros. Co. (Steel Boiler & Tank Plate, Sheared Plates, Boiler Tubes, Skelp, etc.)
COLONA—Colonial Steel Co. (See Pittsburgh, Pa.)
COLUMBIA—Janson Steel & Iron Co. (Bar Iron & Steel)
 Susquehanna Iron Co. (Refined Bar Iron, Wrought Iron Pipe, Skelp & Plate Mills)
CONNELLSVILLE—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
 Sligo Iron & Steel Co. (See Pittsburgh, Pa.)
CONSHOHOCKEN—Longmead Iron Co. Wrought Iron Pipe & Skelp Iron, etc.) (See Phila., Pa.)
 Wood, Alan Iron & Steel Co. (See Phila., Pa.)
 Wood, J. & Bros. Co. (Iron & Steel Sheets & Light Plates, Locomotive Jacket, Corrugated Bath Boiler, Gas Holder, Pickled Blue Annealed Tank & Electrical Sheet Iron & Steel, etc.)
CORAOPOLIS—Duquesne Steel Foundry Co. (See Pittsburgh, Pa.)
CORRY—MEINNES STEEL CO. (Hammered Crucible Tool Steel; Also Air Hardening & Oil Tempered Steel. (See adv. index, end of book)
CRUM LYNNE—Vulcan Charcoal Iron & Steel Co. (Tin Plate Bars, Skelp Iron for Boiler Tubes & Charcoal Blooms, etc.)
DANVILLE—Pennsylvania Brake Beam Co. (Special Shapes for Brake Beams, Deck & I Beams)
 Reading Iron Co. (See Reading, Pa.)
DONORA—American Steel & Wire Co. (See Chicago, Ill.)
 Carnegie Steel Co. (See Pittsburgh, Pa.)
DUQUESNE—Carnegie Steel Co. (See Pittsburgh, Pa.)
ELLWOOD CITY—National Tube Co. (See Pittsburgh, Pa.)
ERIE—Jessop Steel Co. (Crucible Steel Ingots, Sheets & Saw Steel, etc.)
 United States Horse Shoe Co. (Billets & Iron Steel Bars for the Mfr. of Horse Shoes)
ETNA—Spang, Chalfant & Co. (See Pittsburgh, Pa.)
GLASSPORT—Pittsburg Steel Co. (See Pittsburgh, Pa.)
GREENVILLE—Carnegie Steel Co. (See Pittsburgh, Pa.)
 National Tube Co. (See Pittsburgh, Pa.)
HARRISBURG—Bailey, Chas. L. & Co. (Inc.) (Muck Bar, Cut Nails, etc.)
 Central Iron & Steel Co. (Iron & Steel Bridge, Boiler, Tank, Ship & Fire Box Plate, etc.)
 Harrisburg Pipe & Pipe Bending Co. (Wrought Iron & Steel Pipe, Open Hearth Steel Billets, Ingots, Skelp, Slabs, Shovel Plate, Sheet Bars, etc.)
 Harrisburg Rolling Mill Co. (Refined Merchant Bars, Skelp, etc.)
 Lalance & Grosjean Mfg. Co. (See New York City)
 Lucknow Iron & Steel Co. (Charcoal Blooms all kinds of Iron & Steel Plates, Bar Iron, Bands, Angles, etc.)
HAYS—Monongahela Iron & Steel Co. (See Pittsburgh, Pa.)
HAZLETON—Hazleton Sheet Steel Co. (See Phila., Pa.)
HOMESTEAD—Carnegie Steel Co. (See Pittsburgh, Pa.)
HOOPERSTON—Hoopes & Townsend Co. (See Phila., Pa.)
HOPE CHURCH—(See Hays, Pa.)
HYDE PARK—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
JOHNSTOWN—Cambria Steel Co. (See Phila., Pa.)
 Lorain Steel Co. (See Phila., Pa.)
KITTANNING—Kittanning Iron & Steel Mfg. Co. (Muck Bar)
LANCASTER—Penn. Iron Co. (Bar Iron, Bolts, Nuts, etc.)

LEBANON—American Iron & Steel Mfg. Co. (Merchant Bar Iron & Steel, Bolts, Nuts, Washers, Turnbuckles, Lag Screws, etc.)
 Lebanon Valley Iron Co. (Bar Iron & Muck & Scrap Bar)
 Welmer Chain & Iron Co., Mfrs. (Chains, etc.)
 West End Iron Co. (Bar Iron, also Rivet, Car Link & Staybolt Iron, Bridge & Horse Shoe Rods, Chains of all kinds)
LEECHBURG—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
McKEESPORT—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
 Firth-Sterling Steel Co. ("Blue Chip" Fine Crucible Tool Steel) (See also Giesboro, Manor, D. C.)
 McKeesport Tin Plate Co. (Tin Plate & Black Plate for Tinning). Works, Port Vue, Pa.
 National Tube Co. (See Pittsburgh, Pa.)
McKEES ROCKS—Lockhart Iron & Steel Co. (See Pittsburgh, Pa.)
MIDDLETOWN—National Tube Co. (See Pittsburgh, Pa.)
MILESBURG—McCoy & Linn Iron Co. (Bar Iron, Wire, Wire Rods, Chains, etc.)
MILTON—American Car & Foundry Co. (Merchants Bar Iron) (See St. Louis, Mo.)
 Godcharles, F. A. Co. (Muck Bar, Cut Nails & Spikes)
 Milton Mfg. Co. (Merchant Bar Iron, Bolts, Nuts, Rivets, etc.)
MONACA—Colonial Steel Co. (See Pittsburgh, Pa.)
 Pittsburgh Tool Steel Wire Co. (Drawn Tool Steel for Twist Drills, Taps, etc.)
MONONGAHELA—Liggett Spring & Axle Co. (Carriage & Wagon Axles & Springs)
MONESSEN—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
 Carnegie Steel Co. (See Pittsburgh, Pa.)
 Page Woven Wire Fence Co. (Open Hearth Steel Ingots, Wire, Rods, etc.)
 Pittsburgh Steel Co. (See Pittsburgh, Pa.)
 Seamless Tube Co. of America (See Pittsburgh, Pa.)
NEW BRIGHTON—Townsend, C. C. & E. P. (Steel Wire, Bolts, Nuts & Nails, etc.)
NEW CASTLE—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
 American Steel & Wire Co. (See Chicago, Ill.)
 Carnegie Steel Co. (See Pittsburgh, Pa.)
 Elliott, Blair Steel Co. (Bright Cold Rolled Strip Steel, etc.)
 New Castle Forge & Bolt Co. (Product all consumed by the Company; Mfrs. Bolts, Chains, etc.)
NEW KENSINGTON—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
NORTHUMBERLAND—Van Alen & Co. (Muck Bar Iron & Iron & Steel, Cut Nails & Spikes, etc.)
PARKESBURG—Parkesburg Iron Co. (Charcoal Boiler Tnhe, Iron Skelp)
PENCOYD—American Bridge Co. (Steel Beams). (See Pittsburgh, Pa.; also Phila., Pa.)
PHILADELPHIA—American Bridge Co. (Steel Beams, Angles, Channels, Tees, Zees, Bar Steel, etc.). (See also Pittsburgh, Pa.)
 Bristol Iron & Steel Co. (Bar, Band & Scroll Iron)
 Cambria Steel Co. (Steel Beams, Bars, Angles, Channels, Tees, Cold Rolled Steel, etc.). Arcade bldg.; Works, Johnstown, Pa.
 Davis Bros. (Bar Iron, Angle Iron Up to 2 Inches, Spikes, etc.), 29th & Bristol
 Disston, Henry & Sons, Inc. (Tool & Sheet Steel, Cold Rolled & Cold Drawn Steel, etc.), Tacony
 Gaulbert & Caskey (Merchants Bar Iron, etc.), N. American & York
 Hazleton Sheet Steel Co. (Black & Galvanized Steel Sheets, Steel Corrugated Roofing Sheets), Mills, Hazleton, Pa.
 Hoopes & Townsend Co. (Bar Iron & Steel Bolts, Rivets, Rods, etc.), 1330 Buttonwood; Works also at Hooperstown, Pa.
 Hughes & Patterson (Bar Iron Specialties & Skelp Iron, Bands, Hoops & Rods)
 Illingworth, Jno. Steel Co., Frankford, (See New York)
 Ivens, Ellwood Tube Works (Seamless Drawn Steel Tubes), Oak Lane Sta.
 Logan Iron & Steel Co. (Bar & Staybolt Iron, Iron Angles, Crow Bars, Links & Pins, Drill Rods, etc.) North American bldg. Works, Burnham, Pa.

Longmead Iron Co. (Wrought Iron Pipe, Muck Bar & Skelp Iron). Works, Conshohocken, Pa.
Lorain Steel Co. (Light Rails & Street Railway Track Materials), Penn. hldg Works, Johnstown, Pa.
Maryland Steel Co. (Bessemer Steel Billets, Blooms, Ingots, Rails & Plates, etc.), Girard bldg. Works, Sparrows Point, Md.
Midvale Steel Co. (Crucible & Open Hearth Steel Ingots, Bar Steel, Billets, Rods, Spring Steel, etc.), Nicetown
Penna. Steel Co. (Steel Billets, Blooms, Beams, Angles, Channels, etc., Bar Steel & Railroad Specialties, etc.) Girard bldg. Works, Steelton, Pa.
Philadelphia Forge Co., Tacony. (See New York)
Phoenix Iron Co. (Open Hearth Steel Ingots, Bars, Acid & Basic Process, Beams, Angles, Channels, Bridge Plates, etc.), 410 Walnut. Works, Phoenixville, Pa.
Standard Steel Works (Open Hearth Steel Ingots, Steel Car & Locomotive Tires, Axles, etc.), Harrison bldg. Works, Burnham, Pa.
Taylor, N. & G. Co. (Steel Sheets & Plates & Tin & Terne Plate Mfrs.), 409 Mariner & Merchant bldg. Mills, Cumberland, Md.
Wood, Alan Iron & Steel Co. (Basic Open Hearth Steel Billets, Slabs, Sheet Bars & Universal Mill Plates, Black & Galvanized Iron & Steel Sheets & Plates, Locomotive Jackets, Bath Boiler, Swede & Norway Sheets, Gas Holder, Corrugated, Pickled & Cold Rolled Sheets, Electrical Iron & Steel, Water Pipe & Light Plates), 519 Arch. Works, Conshohocken, Pa.
PHOENIXVILLE—Phoenix Iron Co. (See Phila., Pa.)
PITTSBURG—Alcania Co. (Tin & Terne Plate & Black Plates for Tinning). Works, Avonmore, Pa.
 American Bridge Co. (Structural Steel, Billets, Blooms, Ingots, Axles, Shafting, etc.)
 Allegheny Steel Co. (Open Hearth Steel Billets, Ingots, Sheet Steel, Shovel, Tack & Boiler & Tank Plate, Skelp, Sheet Bars, etc.). Works, Brackenridge, Pa.
 American Sheet & Tin Plate Co. (Bessemer Open Hearth, Acid & Basic Sheet Iron & Steel; Black, Planished, Polished, Galvanized & Corrugated, Cold Rolled Tin & Terne Plate, etc.), Frick bldg.
 American Steel & Wire Co., Frick bldg. (See Chicago, Ill.)
 Brown & Co. (Inc.) (Tool Steel, Refined Bar & Hammered Iron for Special Purposes), 10th & Duquesne Way
 Byers, A. M. Co. (Inc.) (Wrought Iron Pipe & Iron Skelp & Muck Bar)
 Carbon Steel Co. (Open Hearth Steel, Billets, Blooms, Ingots, Sheared Plates, Universal Rolled Plates, Carbon Chrome Safe Plates, Locomotive, Driving, Car Axles, General Forgings, etc.)
 Carnegie Steel Co. (Steel Billets & Blooms, Rails, Beams & Structural Shapes, Armor & Boiler Plate, etc.)
 Carter Iron Co. (Iron Bar, Staybolt, Roofing, Chains, Forgings, etc.), Mills: Paden City, W. Va.
 Clearfield Steel & Iron Co. (Skelp, etc.)
 Colonial Steel Co. (Crucible & Open Hearth Steel in Bars, Sheets, Circular Plates, etc.). Mills, Colona, Pa.
 Columbia Steel & Shafting Co. (Polished Turned Steel Shafting, Forged Shafts & Cold Drawn Shapes, etc.)
 Crucible Steel Co. of America (Tool Steel, Merchant Bar Steel, Boiler & Tank Plate, Cold Drawn & Polished Steel Shafting, Cold Rolled Steel & General & Nickel Steel Forgings)
 Damascus Tool Steel Co. (Damascus & Nickel Steel for Tools, Dies, etc.). Works, Carnegie, Pa.
 Dilworth, Porter & Co. (Tie Plates, Floor Plates & Spikes, etc.)
 Duquesne Steel Foundry Co. (Rolled Steel Car Wheels). Works, Coraopolis, Pa.
 Follansbee Bros. Co. (Sheet & Tin Plate Bars, Black Sheets & Plates, Tin & Tern Plate)
 Hubbard & Company (Shovel, Plate Shovels, etc.)
 Hussey, Binns Shovel Co. (Crucible Cast Steel Consumed in the Mfr. of Shovels)
 Independent Steel & Wire Co. (Wire, Rods, Nails, etc.)

Jones & Laughlin Steel Co. (Steel Billets & Blooms, Beams, Channels, Angles, Tees, Zees, Plates, Bars, Bands, Rails up to 40 lbs., Cold Rolled Shafting & Fittings, Chain, Rivets, Spikes, Forgings, etc.)
Keystone Axle Works (Car Axles)
Linton Rolling Mill Co. (Light Rails & Spikes), Park hldg. Works, Linton, Ind.
Lockhart Iron & Steel Co. (Bar, Bands & Hoops, Angles, Channels & Tees, etc.). Works, McKees Rocks, Pa.
Monongahela Iron & Steel Co. (Bar Iron, Muck Bar, Staybolt Iron, Iron Chains, etc.). Mills, Hays, Pa.
Monongahela Tube Co. (Iron & Steel Boiler Tubes). Mills, Wilson, Pa.
National Tube Co. (Wrought Iron & Steel Pipe & Boiler Tubes, etc.)
Oliver Iron & Steel Co. (Bar Iron & Steel, Bolts, Nuts, Rivets, Forgings, etc.)
Pittsburg Forge & Iron Co. (Merchant Bar & Staybolt Iron, etc.)
Pittsburg Spring & Steel Co. (Spring Steel all consumed by the Company)
Pittsburg Steel Co. (Steel Billets, Wire, Rods & Nails, Steel Bands & Hoops, Staples, Cotton Ties, Barbed Wire, etc.)
Pittsburg Tube Co. (Bedstead Tubing). Mills, Colona, Pa.
Pope Tin Plate Co. (Black Plates or Sheets for Tinning). Works, Steubenville, O.
Refined Iron & Steel Co. (High Grade Engine, Staybolt, Chain, Bolt & Nut & Cold Rivet Iron)
Reliance Tube Co. (Steel & Charcoal Boiler Tubes, Locomotive Tuhing, Line Pipe, Casing, etc.). Works, Brackenridge, Pa.
Republic Iron & Steel Co. (Bar Iron & Steel, Bolts, Screws, Railroad Spikes, Turnbuckles, Cold Rolled Steel, Angles, Channels, Tees, etc.)
Russell, J. C. Shovel Co. (Shovel Blanks, all consumed by the Company)
SCAIFE, WM. B. & SONS CO. (Iron & Steel Sheet, Black & Galvanized, Bars & Boiler Tank Plates), 221 1st av. (See adv. index, end of book)
Seamless Tube Co. (Seamless Cold Drawn Tubes). Works, Monessen, Pa.
Shenango Iron & Steel Co. (Refined Iron Bars, Muck Bar, etc.). Works, Wheatland, Pa.
Sligo Iron & Steel Co. (Flange & Tank Steel, Bessemer & O. H. Blue Annealed & Wrought Iron Plates & Sheets, Bar Iron, etc.). Works, Connellsville, Pa.
Spang, Chaifant & Co. (Inc.) (Pipe & Tube Mills). Works, Etna, Pa.
Standard Chain Co. (Bar Iron Chains of all kinds, Light Rails, etc.)
Standard Steel Car Co. (Steel Cars)
Superior Steel Co. (Hot & Cold Rolled Strip Steel). Works, Carnegie, Pa.
West Leechburg Steel Co. (Hot & Cold Rolled Strip Steel). Works, West Leechburg, Pa.
Zug Iron & Steel Co. (Ltd.) (Black & Galvanized Iron & Steel Sheets, Black Plates for Tinning, Corrugated Sheets, etc.)
PORT VUE—McKeesport Tin Plate Co. (See McKeesport, Pa.)
POTTSTOWN—Glasgow Iron Co. (Muck Bars, Boiler, Tank & Bridge Plates, Boiler Heads, Pipe Flanges, etc.)
Lessig, Geo. B. Co. (Tack, Nail & Shovel Plate & Puddle Bars, etc.)
Potts Bros. Iron Co. (Muck Bar, Boiler, Tank, Flue & Pipe Iron)
POTTSVILLE—Eastern Steel Co. (Steel Beams & Structural Shapes, Bridge Plate, etc.)
PUNXSUTAWNEY—Clark Steel Hoop Co. (Steel Hoops, etc.)
READING—American Iron & Steel Mfg. Co. (See Lebanon, Pa.)
 Carpenter Steel Co. (Crucible Tool Steel, Gun, Roller & Machinery Steel, etc.)
 Reading Iron Co. (Merchant Bar Iron, Wrought Iron Pipe, Staybolt Iron, etc.)
 Seyfert, Sam'l R. & Bro. (Puddled Bars, etc.)
 Seyfert, Simon (Est. of) (Boiler & Tank Plate & Skelp Pipe Iron)
SALTSBURG—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
SCHUYLKILL HAVEN—Schuylkill Haven Iron & Steel Co. (Bar Iron & Steel)
SCOTTDAL—American Sheet & Tin Plate Co. (See Pittsburgh, Pa.)
SCRANTON—Scranton Bolt & Nut Co. (Bar Iron, Bolts, Nuts, etc.)

SHARON—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)
Carnegie Steel Co. (See Pittsburgh, Pa.)
Republic Iron & Steel Co. (See Pittsburgh, Pa.)

SHARON STEEL HOOP CO. (Open Hearth Steel Billets, Ingots & Bands & Hoops). (See adv. index, end of book)

Stewart Iron Co. (Muck Bar, Low Phosphorus Bars & Hammered Blooms for making Crucible & Open Hearth Steel)
Wilkes Rolling Mill Co. (Sheet Iron & Steel, Merchant Bar Iron)

SHARPSBURG—Moorhead Bros. & Co., Inc. (Bar Iron, Boiler Sheet Tank & Skelp Iron & Steel)

SLATINGTON—Slatington Rolling Mill Co. (High Grade Bar Iron, Also Staybolt, Boiler Rivet, Horse Shoe, Angle & Drop Forging Iron, etc.)

SOUTH BETHLEHEM—Bethlehem Steel Co. (Steel Billets & Blooms, Armor Plate Steel Bars, Light Rails, etc.)

STEELTON—Penna. Steel Co. (See Philadelphia, Pa.)

TITUSVILLE—Cyclops Steel Works (Crucible Tool Steel & Refined Hammered Bar Iron)

VANDERGRIFT—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)

WASHINGTON—Jessop Steel Co. (See New York City)

Tyler Tube & Pipe Co. (Charcoal Skelp & Blooms & Lap Welded Boiler Tubes)

WAYNESBURG—Hubbard & Co. (See Pittsburg, Pa.)

WEST LEECHBURG—West Leechburg Steel Co. (See Pittsburg, Pa.)

WHEATLAND—Shenango Iron & Steel Co. (See Pittsburg, Pa.)

WILLIAMSPORT—Sweet's Steel Co. (Merchant Bar Steel, Special Open Hearth, Steel, Crow Bars, Harrow Teeth, Steel Tire, Machinery Steel, Calking Steel, Soft Steel, etc.)

Williamsport Iron & Nail Co. (Muck Bar Iron, Cut Nails, etc.)

WILSON—Monongahela Tube Co. (See Pittsburg, Pa.)

WYOMING—Wyoming Shovel Works (Steel Sheets & Light Plates & Shovel Mfrs.)

YORK—Susquehanna Iron Co. (See Columbia, Pa.)

RHODE ISLAND.

PHILLIPSDALE—Washburn Wire Co. (Steel Billets, Steel Wire Rods & Nails, etc.)

PROVIDENCE—Rhode Island Perkins Horse Shoe Co. (Bars for Horse Shoes & Toe Calks)

TENNESSEE.

BRISTOL—Virginia Coal, Iron & Coke Co. (See Roanoke, Va.)

KNOXVILLE—Knoxville Iron Co. (Merchant Bar Iron, Light Angles, Channels, etc.)

VIRGINIA.

NORFOLK—Norfolk Iron Co. (Iron & Steel Hoops, Cotton Ties, Steel Rods, etc.)

RICHMOND—Old Dominion Iron & Nail Works Co. (Merchant Bar Iron, Car & Bridge Iron, Fish Plates, etc.)

Tredegar Co. (Merchant Bar, Car & Bridge Iron & Fish Plates)

ROANOKE—Virginia Iron, Coal & Coke Co. (Steel Billets & Blooms, Merchant Bar Iron, etc.)

WASHINGTON.

SEATTLE—Seattle Steel Co. (Bar Iron, Light T Rails, etc.)

WEST VIRGINIA.

BENWOOD—National Tube Co. (See Pittsburg, Pa.)

CHARLESTON—Baldwin Steel Co. (See New York City)

CHESTER—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)

CLARKSBURG—Phillips Sheet & Tin Plate Co. (Black Plates for Tinning & Tin & Terne Plate & Sheet Steel)

HUNTINGTON—West Virginia Rail Co. (Light Rails)

MORGANTOWN—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)

PADEN CITY—Carter Iron Co. (See Pittsburg, Pa.)

PARKERSBURG—Parkersburg Iron & Steel Co. (Sheet Iron & Steel)

WHEELING—American Sheet & Tin Plate Co. (See Pittsburg, Pa.)

Portsmouth Steel Co. (Open Hearth Steel Billets, Slabs, Ingots, Boiler, Light & Heavy Plates & Heavy). Works, Portsmouth, O.

Wheeling Corrugating Co. (Whitaker Works) (Iron & Steel Sheet)

Wheeling Steel & Iron Co. (Steel Billets & Blooms, Iron & Steel Sheets, Skelp, Muck, Bar, Nails, Spikes & Wrought Iron & Steel Pipe)

Whitaker-Glessner Co. (Sheet Iron & Steel)

WISCONSIN.

MILWAUKEE—American McKenna Process Co. (Renewed Steel Rails). Works, Joliet, Ill., Kansas City, Kans., & Tremley Point, N. J.

Illinois Steel Co. (See Chicago, Ill.)

Rolls (Adding, Cash Register)

Buchanan, Benj. E. (For all Makes of Machines, also for Time Clocks, Telephone, etc.), 4th & Commerce, Phila., Pa.

Rolls (Beam Bending)

Lewis Foundry & Machine Co., Coraopolis, Pa.

Rolls (Bending & Straightening)

Badger State Machine Co., Janesville, Wis.

Bertsch & Co. (Hand or Power for Plates, Sheets, Angles, Angle Iron, etc.), Cambridge City, Ind.

Bethlehem Foundry & Machine Co. (Combined Belt or Hand Power), Front, South Bethlehem, Pa.

Betts Machine Co., Wilmington, Del.

Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)

Cincinnati Punch & Shear Co., Cincinnati, O.

CLEVELAND PUNCH & SHEAR WORKS Co., Cleveland, O. (See adv. index, end of book)

Hilles & Jones Co., Wilmington, Del.

Lewis Foundry & Machine Co., Coraopolis, Pa.

Long & Allstatter Co. (Tire Bending, etc.), Hamilton, O.

MORGAN ENGINEERING CO. (Plate Bending, etc.), Alliance, O. (See adv. index & branch offices, end of book)

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS. (Plate), Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

Perkins Machine Co. (Hand & Power Bending, Electric), Warren, Mass.

Phila. Roll & Machine Co. (Hand & Belt Power, Plate, etc.), S 23d & Wash'n av, Phila., Pa.

Pittsburg Mfg. Co., Pittsburg, Pa.

Queen City Punch & Shear Co., Cincinnati, O.

Rock River Machine Co. (Hand & Power), Janesville, Wis.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

United Engineering & Fdy. Co., Farmers' Bank bldg., Pittsburg, Pa.

Whiting, Geo. Co., 156 W North av, Chicago, Ill.

Wickes Bros. (Plate, etc.), Saginaw, Mich.

Rolls (Blue Print)

Continental Rubber Works, Erie, Pa.

Lovell Mfg. Co. (And for Mechanical Work), Erie, Pa.

Rolls (Chilled Calender)

Bellevue Falls Machine Co., Bellevue Falls, Vt.

Carrier, Cyrus & Son, Newark, N. J.

Emerson Mfg. Co., Lawrence, Mass.

Farrel Foundry & Machine Co., Ansonia, Conn.

Garrison, A. Fdy. Co., Pittsburg, Pa.

Holyoke Machine Co. (Chilled Iron, Paper, Cotton & Husk), Holyoke & Worcester, Mass.

Kitson Machine Co., Lowell, Mass.

Lohdell Car Wheel Co., Wilmington, Del.

Perkins, B. F. & Son (Spined Paper Calender), Holyoke, Mass.

Poole, J. Morton Co., Wilmington, Del.

Pusey & Jones Co., Wilmington, Del.

Rice, Barton & Fales Machine & Iron Co., Worcester, Mass.

Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.

Watson Machine Co., Paterson, N. J.

Rolls (Copper Printing)

Rome Brass & Copper Co., Rome, N. Y.

Rolls (Crimping & Corrugating)

(See also Machinery, Sheet Metal Workers')

Bertsch & Co., Cambridge City, Ind.

BLISS, E. W. & CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Keene, Geo. C. & Co., Cincinnati, O.

New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Robinson, J. M. Mfg. Co., Cincinnati, O.

Rolls (Crushing)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Concentrator Co. ("New Century," Geared & Belt Driven), Basic City, Va.

Bonnot Company (Clay, etc.), Canton, O.

Buckeye Iron & Brass Works, Dayton, O.

Chalmers & Williams (For Gold & Silver Ore, etc.), Commercial Nat. Bank bldg., Colorado Iron Works Co. ("Humphrey"), Denver, Col.

Cresson, Geo. V. Co. ("Buchanan" Plain or Corrugated), Allegheny av. W of 17th, Phila., Pa.

Davis, F. M., Iron Works Co., Denver, Col.

Denver Engineering Works Co. (Without Springs), Blake & 30th, Denver, Colo.

Farrel Foundry & Machine Co., Ansonia, Conn.

Hendy, Joshua, Iron Works (Ore), San Francisco, Cal.

Hoagland's, M. Sons Co., Rockaway, N. J.

Krom Machine Works ("Krom" Cushioned), 170 B'way, New York; Works: Jersey City, N. J.

McFarlane Mfg. Co., Denver, Colo.

McFarlane, Peter, & Sons Iron Works Co. (Horizontal), Denver, Colo.

Marquette, Jno. N., 507 S Eden, Baltimore, Md.

Mine & Smelter Supply Co., Denver, Colo.

Montgomery, J. H. Machinery Co., 1220 Curtis, Denver, Colo.

Nordberg Mfg. Co., Milwaukee, Wis.

Penna. Crusher Co., Stephen Girard bldg., Philadelphia

Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Power & Mining Machinery Co. ("Superior," "Simplex"), Cudahy, Wis.

Scaife Foundry & Machine Co. (for Coal & Coke), Pittsburg, Pa.

South St. Louis Foundry, 7516 S B'way, St. Louis, Mo.

Stearns, Roger Mfg. Co., Denver, Colo.

Stedman's Foundry & Mach. Wks., Aurora, Ind.

Traylor Engineering Co., Allentown, Pa.

Weilman-Seaver-Morgan Co., Cleveland, O.

Rolls (Dandy)

BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)

Brown & Sellers Co., Holyoke, Mass.

Buchanan & Bolt Wire Co., Holyoke, Mass.

Eastwood Wire Mfg. Co., Belleville, N. J.

Gleeson, Thos. E., East Newark, N. J.

Globe Wire Cloth Co., Harrison, N. J.

Smith, C. H. & Co., Holyoke, Mass.

*Rolls (Flaking)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Rolls (Forged Steel)

Birmingham Iron Foundry, Derby, Conn.

Trethewey, Samuel & Co. (Ltd.), (Hardened), 47th & Plummer, Pittsburg, Pa.

*Rolls (Forging & Tapering)

AJAX MFG. CO., 3830 Lakeside, N. E., Cleveland, O. (See adv. index, end of book)

Rolls (Grinding)

Cresson, Geo. V., Co. (Wet & Dry), Allegheny av. W of 17th, Phila., Pa.
 Nordyke & Marmon Co., Indianapolis, Ind.
 Poole, J. Morton Co. (Paper Mill, etc.), Wilmington, Del.
 Sandy Hill Iron & Brass Works (For Paper Mills), Sandy Hill, N. Y.

Rolls (Hand & Belt Power, Bending)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)
 Whitcomb-Glaidell Machine Tool Co., Worcester, Mass.

Rolls (Hub Band Bending & Truing)

Williams, White & Co., Moline, Ill.

Rolls (Jewelers')

Philadelphia Roll & Machine Co., S. 23d & Wash'n av. Phila., Pa.
 Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Rolls (Lap Welding)

United Engineering & Foundry Co. (Single & Double for Pipe & Tube Mills), Pittsburg, Pa.

Rolls (Leather Pressure)

Barry & Zecher Co., Lancaster, Pa.

Rolls (Lime)

Union Iron Works Co., Selma, Ala.

Rolls (Live)

ALLIS-CHALMERS CO. (Also Drives), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Southern Engine & Boiler Works (Inc.), (For Saw Mills), Jackson, Miss
 Wheland Machine Works (Steel), Chattanooga, Tenn.

Rolls (Map)

Bramen, O. H., Carthage, N. Y.

Rolls (Plate Bending)

(See Rolls, Bending & Straightening)

Rolls (Ribbon Solder)

Marquette, Jno. N., 507 S Eden, Baltimore, Md.

Rolls (Rubber)

BOSTON BELTING CO. ("Forsyth"), 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Continental Rubber Works, Erie, Pa.
 DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Goodrich, B. F., Co., Akron, O.
 Lovell Mfg. Co. (For Laundries, Woolen Mills, Tanneries, etc.), Erie, Pa.

Manhattan Rubber Mfg. Co., 18 Vesey, New York, & Passaic, N. J.
 New York Belting & Packing Co. (Rubber Covered), 91 Chambers, New York

PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index, end of book)
 Republic Rubber Co., Youngstown, O.

Wilkie Rubber Mfg. Co., Saugus, Mass.

Rolls (Sand, Chilled & Steel)

(See also Machinery, Rolling Mill)

American Roll & Foundry Co. (Sand & Chilled Only), Canton, O.

American Sheet & Tin Plate Co., Roll & Machine Works (Sand Chilled & Semi-Steel), Canton, O.

Birmingham Iron Foundry (Sand & Chilled Only), Derby, Conn.

Black-Clawson Co., Hamilton, O.

Blake & Johnson Co. (Hardened Steel & Chilled Iron, Waterbury, Conn.
 Centre Foundry & Machine Co. (Sand), Wheeling, W. Va.

Farrel Foundry & Machine Co. (Chilled & Sand), Ansonia, Conn.

Garrison, A. Foundry Co. (Chilled), 9th & Bingham, Pittsburg, Pa.

Hess Snyder Co. (Sand Only), Massillon, O.
 Hyde Park Foundry & Machine Co. (Sand & Chilled), Hyde Park, Pa., & Pittsburg, Pa.

Lewis Foundry & Machine Co. (Sand & Chilled), Coraopolis, Pa.

Lobdell Car Wheel Co. (Sand & Chilled Cast Iron), Wilmington, Del.

Mackintosh, Hemphill & Co. (Steel Only), 11 12th, Pittsburg, Pa.

Massillon Foundry & Mach. Co. ("Massillon"), Massillon, O.

Mesta Machine Co., Lewis blk, Pittsburg, Pa.
 Phila. Roll & Machine Co., S 23d & Wash'n av. Phila., Pa.

Pittsburg Steel Foundry, Pittsburg, Pa.
 Works: Glassport, Ua.

Reading Iron Co., Reading, Pa.
 Riverside Foundry Co., Cleveland, O.

Seaman-Sleeth Co. (Sand & Chilled Only), 41st & A. V. Ry., Pittsburg, Pa.

Townsend Furnace & Machine Shop Co. (Sand, Soft Only), Albany, N. Y.

Trethewey, Samuel & Co. (Ltd.), 47th st., nr Plummer, Pittsburg, Pa.

United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Waterbury Farrel Foundry & Machine Co. (Sand Chilled & Semi-Steel), Waterbury, Conn.

West Penn Foundry & Machine Co. (Sand, Chilled & Semi-Steel), Avonmore, Pa.

Wheeling Mold & Foundry Co. (Sand & Chilled), Wheeling, W. Va.

Youngstown Foundry & Machine Co. (Sand, Chilled, Semi-Steel), Youngstown, O.

*Rolls (Smoothing Armature Segments, Disks & Sheet Metal Blocks)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

NOTICE.

This book contains complete lists of the manufacturers and fabricators of every article made from iron and steel. For the particular specialty required, see Index of Contents. If any exception to the truth of this statement is found in consulting the columns of our Commercial Register, kindly advise and we will supply the deficiency.

S. E. HENDRICKS CO.,
 74 LAFAYETTE STREET,
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The Gilman Spiral Snow Guard.

Absolute Protection Against Snow Slides.

**USED EVERYWHERE
BY EVERYBODY.**

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**FOR NEW ROOFS
FULL SIZE.**

FOR ROOFS ALREADY LAID.

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C. H. GILMAN, Proprietor

U. T. HUNGERFORD BRASS & COPPER CO.
501 PEARL STREET, NEW YORK.

Rolls (Typewriter)

Continental Rubber Works, Erie, Pa.
Goodrich, B. F. Co. (Rubber), Akron, O.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index, end of book)
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Rolls (Wood)

Novelty Turning Co. (For Perforated Music), Norway, Me.
Tatem, J. B. & Son (Lawn Mower & Heavy), Putnam, Conn.

Rolls (Wringer)

(See Rolls, Rubber)

Roof Coatings

(See Cements, Roofing)

Roof Joint

Parker, E. L. & Co. ("Reese" Patent, Water Tight, Expanding, etc.), Baltimore, Md.

Roof Paving Compound

Powell, M. W. Co. ("Actinolite"), 204 Dearborn, Chicago, Ill.

Roof Snow Guards

CLASON ARCHITECTURAL METAL Works ("H. B." & "Clason"), 428 Kinsley av, Providence, R. I. (See adv. index, end of book)

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See adv. index, end of book)
Cleveland Wire Spring Co., Cleveland, O.

Folsom Snow Guard Co., 7 Water, Boston, Mass.
Fulmer, J. H. ("Eagle," "Fulmer," "Eureka"), Nazareth, Pa.

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Hamblin & Russell Mfg. Co. ("Brace," "Standard"), Worcester, Mass.

HUNGERFORD, U. T. BRASS & COPPER CO. (The "Gilman" Copper & Galvanized Iron), 497 Pearl, New York

HUNT METAL CORNER CO. (Continuous), Westboro, Mass. (See adv. index, end of book)

Peter, F. N. & Bro. ("Never Break"), Newside, Pa.

Roofers (Plastic Slate)

Aeolian Plastic Slate Roofing Co. (Tile, Brick & Slate Paved Roofs), 163 W 23d, New York

Casmento Roofing Co., 160 W 5th av, New York
Foy, Edw. L. & Co., Baltimore, Md.

Granite Plastic, Slate & Slag Roofing Co., 882 Ryan, Baltimore, Md.

Griffin Roofing Co., 506 W 26th, New York
Laura, John & Co., 160 5th av, New York

Noble, H. & Co., Baltimore, Md.

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Roofers, Tinnerns, Etc.

NOTE—The words in parentheses (Comp., Metal, Slate & Tile) following the names of Roofers, indicate composition, metal, slate & tile roofers. Those not indicated are tin or metal roofers.

(See also Cornices, Galvanized Iron; also Iron & Steel, Corrugated; also Roofing Materials; also Roofing & Siding, Iron & Steel; also Roofing Slate; also Roofing Tile; also Shingles, Metallic; also Roofing Felt; also Skylights; also Building & Sheathing Papers; also Roofing Paints; also Cement Roofing)

ALABAMA.

ALEXANDER CITY—Turner, T. B.
ANNISTON—Anniston Supply Co. Slate, Metal & Gravel)
ATHENS—Le Grand, H.
BIRMINGHAM—Alabama Metal Roofing Co.

Bain, C. A.
Birmingham Paint & Roofing Co.
East Birmingham Iron Roofing & Cor. Co.
Holtam Bros.
Merrell, Lee

Spiro Hardware Co.
Wheelock, Geo. F. Co. (Slate & Metal)

BRIERFIELD—McCollum, W. W.

DECATUR—Brown, W. A. & Co. (Slate & Metal)

DEMOPOLIS—Braswell Hardware Co.

EAST BIRMINGHAM—(See Birmingham)

EUFAULA—Folsom, G. W. & Sons
Folsom, C. J. & Co.
Ross, J. L.

GREENVILLE—Dunklin, J. H. & Co.
Johnson, J. F. Hardware Co.

HUNTSVILLE—Dreger, Oscar

MOBILE—Cunningham Hardware Co.

McMillin Bros. Co.
Partridge, C. S. Hardware Co. (Metal & Slate)
Phelan Bros.

Pope, John A.
Tillson, Walter
White & Benson
Wintergerst, C., 555 Dauphin

MONTGOMERY—Flood, D. F.
Hegenwald, John G.

Kennedy Co.
Kernell, Thos. M.

Pope, D. & Son

Wilson, J. B. & Co.

NEW DECATUR—Decatur Cornice & Roofing

Yates, W. C. & Co. Co. (Slate & Metal)

OPELIKA—Benton, J. F.

Galbraith, W. A.

ROANOKE—Neal, F. A.

TROY—Jolly, Mrs. A. E. & Co.

TUSCALOOSA—Robertson, J. R.

TUSCUMBIA—Halsey, W. G. & H. L.

UNION SPRINGS—Anderson, F.

UNIONTOWN—Brown & Moore

ARIZONA TERRITORY.

GLOBE—McNeil, J. P.
PHOENIX—Burtis, D. H.
Evans, Wm.
PRESCOTT—Brown Bros.
Klehl, E.
TUCSON—Corbett, W. J. (Iron)
Jullian, W. A. Co.
Tucson Hdw. Co.

ARKANSAS.

ARGENTA—Gerard, Joseph
BATESVILLE—Baker, G. A.
Rosenthal Hardware Co.
BRINKLEY—Rider, W.
CORNING—Balle, C. L.
DARDANELLE—Goodier, Joe
FORREST CITY—Hodges, Sam.
FORT SMITH—Ft. Smith Cornice & Plumbing
Co. (Slate, Metal & Gravel), 16 N 5th
Nicodemus & Price
HELENA—Bulow, Paul
Helena Tin & Plumbing Co.
HOPE—Halliburton, C.
McRae, K. G. Hardware Co.
HOT SPRINGS—Black, W. H. & Co.
Donnelly, E. C.
Williams, Schurder & Co.
JONESBORO—Christian Bros.
LITTLE ROCK—Foster Hardware Co., 301 Main
Haley, Neff & Co.
Ketcher & Ishburn
McCardell Bros., 522 Center
Robinson, J. K. & Co., 108 E 4th
Simmons & Mayer
MARIANNA—Plummer & Davis
MONTICELLO—McQuiston, L. D. & Co.
MORRILLTON—Kleinschmidt, Louis
Patton, John & Co.
OZARK—Maxey, J. F.
PINE BLUFF—Dellmon, John H., Jr. (Slate &
Metal)
Rafferty Bros.
Fox Bros. Hardware Co. (Slate & Metal)
Steck, John H.
TEXARKANA—Hoffman Hardware Co.
Wagner, Louis
WARREN—Gill, M. T.

CALIFORNIA.

ALAMEDA—Fischer, C. F. Plumbing &
Furey, Frank P. Hardware Co.
ANAHEIM—Bennerscheidt, Jos.
Miller, L. E.
ANTIOCH—Christensen, N. E.
ARCATA—Arcata Hardware Co.
BERKELEY—Berkeley Cornice Works
McNamara, J. M.
Sahlman, M. F.
CHICO—Hubbell, L. L.
Newman, J. F.
CLOVERDALE—Williams, O. C.
COLUSA—Mitchell, H. & Son
Roche, Jas.
CONCORD—Pacheco, Chas. Co.
ETNA MILLS—Eller, E. J.
EUREKA—Moore & Cooke Co.
FERNDALE—Kausen & Williams Hardware
Co.
FORTUNA—Leach & Smith
FRESNO—Barrett-Hicks Co.
Donahoo, Emmons & Co.
Foin, F. A. & Son
Kutner, Goldstein Co.
McHugh, M. P.

GALT—Orvis & Ritz
GEYSERVILLE—Haupt, Julius
GILROY—Chappell, G. A. & Co.
Robinson Hardware Co.
GRASS VALLEY—Clausen, C.
HALF MOON BAY—Rathbone, C. E.
HANFORD—Foster, Fred.
HAYWARDS—Brunner, H. E., B st.
Dale & Son
Linekin & Allen, Main st
HEALDSBURG—Garrett, A. W.
Gunn & Ferguson
Raabe, M.
IRVINGTON—Hirsch, O. N. & Co.
JACKSON—Garbarini Bros.
LEMORE—Moore, Robert A.
LIVERMORE—Anthony, Mrs. M. S.
Dutcher, N. D.
LODI—Henderson Bros. Co.
LOS ANGELES—Berry B. R., 2803 W. Pico
Biller, J. B., 2953 W. 10th
Bittleson, S., 715 E. Pico
Breithaupt, M., & Co., 204 S. Los An-
geles
Campbell, J. A., 802 Temple
Harper & Reynolds Co., 152 N. Main
Hellman, Jas. W., 155 N. Spring
Howe Bros. (Slate & Metal), 554 S.
Irish, H. A., 118 N. Daly Spring
Keays, A. A., 415 S. Los Angeles
Klits & Jackson, 116 E. 3d
Kirkby, Mark (Tile & Slate)
Lindenbaum, Louis, 806 S. Main
Longley, A. H., & Son, 509 S. San Pedro
Maltre, C. J. (Slate & Metal), 906 S.
Metzger, Theo., 1044 Byram Main
Panzer-Hamilton Co. (Metal, Tile, etc.),
131 Rose
Paraffine Paint Co. (Comp.), 313 N. Los
ANGELES
LOS GATOS—Bogart, A. W. Angeles
Lewis, O., & Sons Co.
MADERA—Barcroft, Fred.
Hoffman & Stephenson
MARYSVILLE—Hampton Hardware Co.
White, Cooley & Cutts
MONTEREY—Hanna, N. D.
NAPA—Young Hardware Co.
OAKLAND—Antone, F. A., 814 B'way
Dalziel, Robert, Jr., 418 13th
De Luchi & Shufelt, 1106 San Pablo av
Heidt, W., Cornice Works (Slate &
Metal), 916 Webster
Ingram Hardware Co.
Johnson, T., 2112 San Pablo av.
Kirk, Owen C., & Co., 305 E. 12th
Mackenzie Roof Co. (Felt & Gravel)
Maxwell Hardware Co.
Murray & Co., 610 B'way
Oakland Roofing & Paint Co., 412 15th
Pierce Hardware Co.
Planer, E., 1229 San Pablo av
Randall & Dinsmore, 1216 Market
Spearman, Henry, 406 7th
Watson Roof Co. (Felt & Gravel), 427
15th
Yager Sheet Metal & Plumbing Co., 1006
7th
OROVILLE—Kelley, T. J.
Sadovskl, O. F.
PASADENA—Bucklus, J. J.
Dunn, W. H., 8 E Colorado
Munger & Munger
Nay, E. O. & Co.
PETALUMA—Schonigh Bros.
PLACERVILLE—Alderson, Edw. L.
Meehan, M. Q.
POMONA—Wilkinson, J. W. & Son
RED BLUFF—Lyon & Garrett

REDDING—Young, James Hdw. Co.
REDLANDS—Dostal, John F.
Kline & Underwood
REDWOOD CITY—Holmquist, R. C.
RIVERSIDE—A'Fleck, J. B.
Copley Bros.
Cunniff, M. T.
Schanck, A. H.
Shiels, John & Sons
SACRAMENTO—Carlaw, Edward
Jackson, E. B.
Miller & Cahill, 1116 J
Miller, Elder & Co.
Sinclair & Bessey
ST. HELENA—Stevens, J. H. Hardware Co.
SALINAS—Anderson & Dougherty
Webster, J. A.
SAN BERNARDINO—Cooley, G. M. Co.
SAN DIEGO—Johnston, J. S., & Sons
Julian, C. H.
Kindler Pibg. Co., 743 6th
Schultheiss Bros. Co.
SAN FRANCISCO—Abele Sheet Metal Works,
3009 Mission
Amsler, C. S., 25 Shotwell
Appman & Brady, 446 7th
Barth Cornice Works, 121 Julian av.
Blakeway, John H., 105 Beale
California Roofing Co. (Asphaltum),
15th & Market
Cantley, James, & Co. (Asphaltum, Felt
& Gravel), 1370 Green
Comyns & Nygren, 1731 15th
Conlin & Roberts (Asphalt, Slate &
Metal), 410 Natoma
Cook & Co., 11 Mission
Cronan, Wm. (Slate & Metal), 19 City
Hall av
Cronan's Eagle Cornice Works (Metal &
Slate), 19 City Hall av
De Lano Bros., 70 Spear
Eureka Sheet Metal Works, 26 Minna
Feldman & Sommer
Fenton & Son, 15 Tehama
Ferry Sheet Metal Works, 892 Folsom
Flahaven, Stephen (Metal), 2807 23d
Ford & Malott (Asphaltum & Felt
Comp.), Mariposa, & Iowa
Forderer Cornice Works (Slate &
Metal), 269 Potrero av

GILMAN'S SNOW GUARD

103 Merrimac, Boston, Mass. (See adv.
on preceding page)
Globe Sheet Metal Works, 1929 Market
Grant-Leonard Co. (Asbestos), 316 1st
Guilfooy Cornice Works (Slate), 209 8th
Hammond, Philip, 378 Dolores
Heidt, Wesley, Cornice Works (Slate &
Metal), 152 1st
Hurabielle Bros., 775 B'way
Knickerbocker Roofing & Pav. Co. (As-
phaltum), 48 12th
Larsen Bros., 135 Connecticut
Lawson, Jno. C., 771 Guerrero
Leiser & Co., 412 Grove
Mamlar, Nathan, 232 Perry
Morrison & Clark, 791 McAllister
Murphy, Patrick H., 187 Parker av.
Merchants Roofing Co. (Felt & Gravel),
3437 17th
Metropolitan Roofing & Pav. Co. (As-
phaltum, Felt, Gravel, etc.), Chron-
icle bldg.

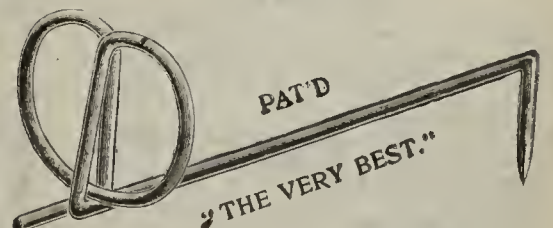
WIRE SNOW GUARDS

FOR SLATE ROOFS

MADE OF COPPER AND GALVANIZED
WIRE. WRITE FOR PRICES.

The "H-B" two-piece Guard
for old roofs.

ALSO VENTILATORS, SKYLIGHTS, METAL
WINDOW FRAMES AND SASH, ETC. ESTI-
MATES FURNISHED FROM PLANS. SEND
US YOUR REQUIREMENTS.



The "CLASON" Guard
for new roofs.

The Clason Architectural Metal Works, - Providence, R. I.

National Mastic Roofing Co. (Gravel & Ready), 180 Jessie
 Olmo, Frank, 3462 Mission
 Pacific Refining & Roofing Co. (Asphalt Comp., etc.), 16th & Mississippi
 Paraffine Paint Co. (Asphalt, Felt & Comp.), Merchants' Ex. bldg.
 Penn, Chas. S., 66 Sanchez
 Pioneer Asphaltum & Art. Stone Pav. Co. (Asphaltum), 710 Montg'y
 Power & Pike Co., 22 Main
 Richardson & Engler, 1669 Market
 Riddle Bros., 308 7th
 Rulofson, A. C., Sheet Metal Works, Monadnock bldg
 San Francisco Cornice Works, Brynt & Dore
 San Francisco Roofing & Pav. Co. (Asphaltum), 1443 Fillmore
 Shields, Thos., 571 Mission
 Stalder & Hinkelbein, 1513 Polk
 Standard Roofing Co. (Asphaltum, Felt & Gravel), 365 McAllister
 Standard Sheet Steel Co., 1550 Bryant
 Superior Roofing Co. (Asphaltum), Monadnock bldg
 Taylor & Pritchard, 22 Sacramento
 Union Roofing Co., 3780 Mission
 United Sheet Metal Works, 575 Howard
 Von Tagen & Moller, 13 Clay
 Watson Roof Co. (Asphaltum, Felt, Gravel, etc.), 110 Sutter
 Western Roofing Materials Co. (Felt, Gravel, etc.), 7th & Hooper
 Wilson, W. H. & Co. (Asphaltum & Comp.)
 SAN JOSE—Klein, F. & Son, 42 Notoma
 Mangrum & Otter Co. (Slate & Metal)
 Stock, Jno., Sons (Slate & Metal)
 SAN LEANDRO—Hoerst, E. Reichsrath, H. L.
 SAN LUIS OBISPO—Payne, E. M. Payne, E. M.
 SAN PEDRO—Dakln, H. M.
 SAN RAFAEL—Conway, E. H. Johnson, R. W.
 Kelly Bros.
 Kinsella, Richard
 SANTA ANA—Haywood, J. S. Hill, S. & Son
 McFadden, Jno.
 SANTA BARBARA—Booth, R. L. Ott Hdw. Co.
 SANTA CLARA—Dickinson, F. R. Menzel, R. Hdw. Co.
 SANTA CRUZ—Byrne Bros. (Comp. Asphalt. etc.) Senegrin Bros. Whitney Bros.
 SANTA MARIA—Bryant & Trott Co. Weber, R.
 SANTA MONICA—Bohme, Geo. O. Middlekauff, C. D.
 SANTA ROSA—Demmer, Chas. Haven & Hawk
 Letold Co.
 Morrow, E. E. & Son
 Potter, J. H. & Son
 STOCKTON—Gneckow, E. L. Mills, J. T., 148 Main
 Schuler, Geo. F. (Iron & Tin), Hunter st
 VALLEJO—Brownlie, Robt. Wilder, H. E.
 Winchell, C. L. Hardware Co.
 VENTURA—Baker, F. W. Leach, B. A.
 VISALIA—Gilbert & Son
 WATSONVILLE—Friermuth, P. J. (Est. of)

COLORADO.

ALAMOSA—Spriestersbach Hardware Co.
 ASPEN—Tomkins, L. H. Hardware Co.
 CANON CITY—Bancroft Hardware Co. Ellis & Hood
 Harding Hardware Co.
 COLORADO CITY—Roles & Sutherland
 COLORADO SPRINGS—Ball Bros.
 Barnes, G. S. & Son
 Blake, A. S.
 Heyse, Rudolph
 Joyce, E. R.
 Lowell-Meservey Hardware Co.
 Barnes, G. S. & Son
 Taylor, Chas. E.
 RIPPLE CREEK—Colorado Tin & Sheet Iron Works
 DENVER—Angerman, Harry, 122 B'way
 Dill, C. C. (Gravel), 1534 Champa
 Dornington, Wm. H. (Metal), 1746 Arapahoe
 Fair, G. W. Cornice Works Co. (Metal & Flaherty, P. J. (Slate), 1809 Blake
 Fredrum, J. W., 1421 Lawrence
 Freund, Geo. & Co., 1016 18th

Globe Cornice Works (Slate & Tile), 756 B'way
 Hallack & Howard Lumber Co. (Elaterite & P. & B. Products), Larimer & 7th
 Hinchman-Renton Fireproofing Co. (Gravel), 1815 Arapahoe
 Jones & Greathead, 1335 Welton
 Kelley, James M., 1727 Stout
 Kessler, Fred., 2706 Larimer
 Kobel, Carl F., 1358 Larimer
 Lang, H. G., 1901 Welton
 McBride, Charles (Gravel), 2046 Stout
 Neveu, Wm. H., 1219 Lawrence 1837 Stout
 O'Brien, D., 3827 Downing av
 Sabath, G. S.
 Sanford's Furnace Co., 1732 Welton
 Sayre-Newton Lumber Co. (Paroid), 23d & Schmitt, Wm. C. Blake
 Treat, L., 1743 Glenarm
 Wahlgren, Jno. A., 1933 Curtis
 Walter, L. H., 1426 Blake
 Welgele Riveted Steel Pipe Works, Larimer, N E c 30th
 Western Elaterite Roofing Co. (Elaterite)
 Young, Jno., 2245 Blake
 Zint, G. W., 1754 Welton
 DURANGO—Graham, F. R.
 FLORENCE—Wilson, Geo. Hardware & Supply Co.
 FORT COLLINS—Dierck, H. G.
 GLENWOOD SPRINGS—Dougan, Wm. Everett, E. B. & Son
 Metelmann, H. C.
 GREELEY—McArthur, D. R. & Co. McCutcheon Hardware Co.
 LA JUNTA—Bomgardner & O'Neill Hardware Co. Johnson, John
 LEADVILLE—Blosfeld, Charles E. Leadville Hardware Co.
 Muller, Jos.
 Tompkins, H. H. Hardware Co.
 MONTROSE—Lathrop, J. V. Montrose Hardware Co.
 OURAY—Arps Bros. Hardware Co.
 PUEBLO—Holmes Hardware Co., 302 S Union
 Killin, John M. & Co., 206 S Main av
 Pueblo Plumber Co., 402 Santa Fe av
 SILVER CLIFF—Woodside, Wm.
 TRINIDAD—Brown, H. B. Hardware Co.

CONNECTICUT.

ANSONIA—Gaffney, Wm. Terry, T. P. & Son, 80 Main
 Webb, John T.
 BERLIN—Damon, H. H.
 BRANFORD—Engquest, A. R.
 BRIDGEPORT—Beitner, Geo. L., 609 State
 Bertilson, Berger, Morehouse
 Beutelspacher, Henry (Metal), 235 Middle Birmingham, John, 273 State
 Booth, F. & F. C., Co., 230 Middle
 Brady, Thomas T., 359 Benham av
 Bridgeport Cornice Works, 227 John
 Bullard, W. S. (Gravel, etc.), 636 Water
 Burns & Co. (Asphalt, etc.), 83 Fairfield av
 Clapp, W. A. (Slate Comp. & Gravel), 33 P. O. Arcade
 Curtis, Nathan B., 358 Stratford av.
 Donning, D. Alex., 173 Stratford av.
 Dougherty, Andrew J., 137 Kossuth
DROUVE, G. CO., 40 Tulip. (See adv. Index, end of book)
 Eames, C. S., & Co., 246 Middle
 Farmers' Supply & Roofing Co. (Tar, Asbestos & Iron), 256 Middle
 Gould, H. C. & Co. (Gravel, Slate & Felt), 304 West av
 Green, M. A. & Co., 1328 Main
 Hurley, James J., 606 E Main
 Klnder, Fred W., 126 Austin
 Kirk, Wm. P. Co., 360 Fairfield av
 Lord & Roberts, 20 Crescent av.
 Lynch, Geo., & Co. (Tin), 56 Golden Hill
 McLevy, Geo., & Sons Co. (Slate), 117 Housatonic av
 Manwaring, M. W., 855 E. Main
 Middlebrook & Goulden, 40 Court
 Mills, L. H. (Iron & Metal), 32 Middle
 Murphy, John F. (Metal), 33 Union sq
 Nonparel Roofing & Covering Co. (Gravel, Felt & Slag), 37 E Washington av
 Reilly, J. Jr., 283 State
 Roc, Robert T., 103 South av
 Scanlon, John J., 1772 Main
 Schreiber, Chrs., 220 Evergreen
 Schwlng, John, Corpn. (Iron & Metal), 863 Wood av
 Sillman & Godfrey Co. (Gravel), 1119 Broad
 Taylor, H. O., 654 Fairfield av
 Wakeman, S. B., Co., 261 Clinton av.
 Wheeler, Cook & Co., 119 State
 BRISTOL—Roberts & Arnold
 White, J. M.
 COLCHESTER—Avery, F. T.

COLLINSVILLE—Bidwell, D. W. & Co.
 DANBURY—Benjamin, F. C. & Co. (Gravel & Tar)
 Danbury Hardware Co.
 Duane & Culhane, 10 Keeler
 Hoyt, H. W. Co.
 Hull, F. A. & Son
 Scofield, Theo.
 DANIELSON—Keach, E. H. & Co.
 DARIEN—Lounsbury, C. W.
 DEEP RIVER—Cochrane, A. E.
 DERBY—Dickglessner, Chas. J. & Co.
 Kelly, D. H.
 Kelly, T. F.
 Munson, W. H. (Slate)
 Peck, E. W. & Co.
 Shelton Tin & Plbg Co.
 EAST BERLIN—Bowers, E. W.
 EAST HARTFORD—Hills, C M.
 ESSEX—Bowen, Wm.
 FAIRFIELD—(See Southport)
 FARMINGTON—Parker, Arthur J.
 Sneath, Frank H. & Son
 Swanston, Frederick P.
 GREENWICH—Allen, David K. (Slate & Metal)
 Peck, E. S. (Gravel & Tin)
 Talbot, Francis J. (Slate)
 GROTON—Hempstead, G. R.
 HARTFORD—Altlin, T. P., & Son, 57
 Behmer, F. Edw., 1116 Main Market
 Beseman & Bostwick, 44 Ann
 Bliss, Edward
 Bull, N. B., & Son, 257 Asylum
 Capitol City Roofing Co., 101 Trumbull
 Clark, Merlin F. (Slate, Metal, Gravel & Tile), 19 Center
 Clarke, E. W. & Son (Gravel, etc.), 32 Village
 Cohen Bros., 1204 Main
 Couch, Geo. M., Co., 1072 Main
 Cullen & Atkinson Co.
 Fine, M. S., 1152 Main
 Ford, J. P. (Slate, Metal & Felt), 373
 Godbout, Fred J., 74 Allyn Asylum
 Goldenthal, M., 15 Affleck
 Hartford Roofing Co., 33 Church
 Lurie, Aaron, 172 Allyn
 McManus, John C. & Sons, 346 Main
 Murray, W. & J., 450 Main
 Sneath, Frank H., & Son (Slate & Tile), 902 Main
 Stelling, F. W., 9 Pawtucket
 Webster, Chas. S., 546 Asylum
 Wallad, Meyer, 35 Albany
 Welgelt, W. P., 164 State
 HIGHWOOD—Rice, Henry H.
 LAKEVILLE—Hoyt & Baumann
 LITCHFIELD—Allen, E. B. Co.
 Crutch, George R.
 Moraghan, M. V.
 MANCHESTER—Emmons, L. S.
 MERIDEN—Cummings, Geo. R. (Slate), 127
 Dahill, John F., 72 Grove
 Goodrich, F. S., 260 Centre
 Grilswold, Richmond & Glock Co., 2 W Main
 Holmes, John L., 524 Broad
 Rogers, Hervey, 82 Akron
 Wheeler, F. J., 17 W Main
 MIDDLETOWN—Bacon Bros.
 Coughlin, W. J.
 Donovan, James
 Flynn, J. Taylor
 Hale & Kelsey
 Hyland, Michael J. (Slate, Tile & Gravel)
 Kennedy, R.
 Longworth-Wetherby Co.
 Mills, Lyman D.
 Schenk, Fred
 MILFORD—Ford, S. T. & M. C.
 MYSTIC—Hopwood, J. E. & Co.
 Newberry, E. H.
 NAUGATUCK—McCarthy, W. H., 75 S Main
 Page, J. M. & Co., 175 Church
 NEW BRITAIN—Bergeron, Albert H., 41
 Brady, Thomas H., 351 Main Cherry
 Croll, Louis
 Emley, William, 137 Main
 Ericson & Johnson
 Erwin, J. Edward, 48 Lafayette
 Erwin, J. J. & W. T., 160 North
 Hannon, M. E. & Co. (Gravel, Tar, etc.)
 Hinchcliffe, S. L.
 Hjerpe, C. A.
 Loomis, F. W., & Co., 150 Arch
 Pape, Wm. C.
 Rapelye, George, 250 Main
 NEW CANAAN—Simon Bros.
 NEW HARTFORD—Smith, Henry T.
 NEW HAVEN—Beebe, Wilson E., 414 Howard
 Bradley Co., 158 Orange
 Bradley, James H. (Felt & Gravel), 163 Farren av.
 Bristol, W. T., 116 Lamberton
 Brown, James W., 8 E. Grand av.
 Buckingham, Routh Co., 151 Court

Carleton, F. A. (Est. of), 190 George
Chatfield Paper Co. (Gravel & Felt), 300
State
Clark, C. W., & Son (Slate, Tile & Felt),
109 Commerce

CLASON SNOW GUARD

428 Kinsley av., Providence, R. I. (See
adv. index, end of book)

Clerkin & Co., 779 Grand av
Coe & Coleman Co., 970 Chapel
Corbett, T. W., 29 Broadway
Coyne Bros. Concrete Co. (Tar, Felt &
Gravel), 250 Blatchley av
Curtiss & Pierpont Co., 272 Elm
Dardell, A., 292 George
Denny, W. H., 341 Peck av
Dibbie, S. E., 639 Grand av.
Dorman & Cugell, 243 Congress av.
Edmondson, Geo., Co., 956 Grand av.
Flanagan, M. C., 194 Shelton av.
Flynn, Wm. E., 291 Congress av.
Godfrey, F. A. & A. E., 479 Campbell
av., W. H.

Grodinsky, Samuel, 13 Vernon
Herpich, C., 543 Congress av.
Igo, John E., 121 Dixwell av.
Kanneglesser, Ernst, 109 Asylum
Kelley, James E., & Son (Gravel), 66
Liddell, Graham, 53 Crown Commerce
Lohse, Edward E., 224 Campbell av.,
W. H.

McDonald, Wm. H., 778 Grand av.
Menzies & Menzies, 196 Orange
Neuman, C. U., 529 3d av., W. H.
Perry, Harry M. (Metal), 218 George
Rourke Bros. Co., 834 Grand av
Ryan, Edw. J., 145 State
Sheehan, Daniel M., 105 Court
Shields, Richard J. (Tin & Slate), 81
Webster

Smith, A. J. & Co., 13 Blatchley av
Smith, W. A. T. Heating Co.
Wadsworth, I. N., 247 Elm, W. H.
Wright, O. S., 780 State

NEW LONDON—Andre, Benj. (Gravel, etc.)
352 William

Downey & Brennan, 38 Bradley
Higgins, Jno. F. (Slate, Gravel & Copper),
41 Sherman

Kennedy, Harry J., 398 Bank
McPharland, Hugh, 81 Golden
Mallory, Amos, 113 Golden
Mallory Co., 166 Bank
Murray & Maher, 41 Main
Newman & Cronin, 33 Main
Roche & McGuire, 84 Green
Russell, P. W., 206 Bank
Sugrue, T. T., 29 Starr

NEW MILFORD—Beach, C. M.
McMahon, A. H.

NORFOLK—Thurston, W. A.

NORWALK—Clarke, Frank F. (Tar)
Heating & Plumbing Co. (Slate & Tin)
Jones & Hotchkiss Co. (Slate & Metal)
McKeon, F. J., Jr.

NORWICH—Barstow, John P. & Co., 23 Water
Capron, C. P., Norwichtown
Murphy, Chas. O. (Tin & Gravel), 257 Cen-
tral av
Troland, Jno., 23 W Main
Whitaker, Chas. E. (Gravel)

PORTLAND—Ellsworth, H. W.

PUTNAM—Chandler & Morse

RIDGEFIELD—McGlynn & Whitlock

ROCKVILLE—Kuhnley Plumbing & Heating Co.
Mulligan, John

SALISBURY—Wanger, C. F.

SHELTON—(See Derby)

SOUTHPORT—Wheeler, C. A.

SOUTHINGTON—Hancock, S. G.

SOUTH MANCHESTER—Carrier, E. T.

Ferris Bros.

Morlarty, Hugh

Trotter, T. M.

Wright, Geo. R.

SOUTH NORWALK—(See Norwalk)

STAFFORD SPRINGS—Adams, Anthony

Hodgson, C. P.

STAMFORD—Broderick, T. H., 86 Gay

Stark Bros., 40 Park row

Wilson, James & Co., 36 Atlantic

STRATFORD—Beardsley, F. P. & Co.

SUFFIELD—Brown, F. W.

THOMASTON—Blakeslee, Harry L.

THOMPSONVILLE—Leete, A. R.

TORRINGTON—Agard Hardware Co.

Morrison, W. H.

UNIONVILLE—Symonds, W. F.

WALLINGFORD—Phelps, F. W., 21 Main

Phelps, L. M.

WATERBURY—Barlow Bros. Co. (Metal &
Gravel), 63 Grand

Byrne, C. R. A. (Felt & Gravel), N Main,
opp City Mill Lane

Clancy, M. (Est. of), 892 Bank

Disley, W. T. Co. (Gravel & Metal), 276

Donnelly, M. J., 47 Union Bank

Excelsior Concrete Co. (Felt & Gravel),
17 Baldwin av

Fahy, M. J., 3 West Burton

Garrity, P. H., 342 S Main

Keegan, J. A., Co. (Felt, Metal, etc.),
498 W. Main

Keeler, H. W. Co., 178 S Main

Smith, J. K. (Tile, Slate & Gravel), 7 1st av

Thatcher, Chas. Co., 39 Center

Toucey, Levi H. Co., 171 E Main

Weyand, Hy. Co. (Slate, Metal & Tile), 22
Jeff

Wright, E. E. (Felt, etc.), 115 Bank

WATERTOWN—Hitchcock Hardware Co.
Suffa, Jos.

WEST HAVEN—(See New Haven)

WILLIMANTIC—Bill, J. G., 12 North

Lyman, Hollis H.

Truscott, R. B., 8 Railroad

WINDSOR—Ingleson, W. D.

Wilbraham, G. F.

WINDSOR LOCKS—Mooney, J. E. (Slate &
Metal)

Pease, Allen Co.

WINSTED—Alvord, J. H., 450 Main

Barrett & Kennelly

Holbrook, J. H.

Marsh, Fredk. W. & Son

WOODBURY—Hitchcock, F. F.

Terrill, Geo. G.

DELAWARE.

BRIDGEVILLE—Layton, H. C.

DOVER—Clendaniel, Geo. G.

Jones, T. K. & Bro. Co.

GEORGETOWN—Fancet, W. A. & Co.

Holson Bros. Hardware Co.

HARRINGTON—Callaway, J. A.

LAUREL—Smith, Samuel T.

MIDDLETOWN—Letherbury, W. S.

Roberts, J. T.

MILFORD—Apel, J. H.

Gray, W. M.

NEWARK—Hayes, Jas. H.

SEAFORD—Bnrton, W. S.

Williams, P. J.

SMYRNA—Brinton, J. H.

Faries, Wm.

Sisco, O. W.

WILMINGTON—Alexander, Wm. H. (Slate,
Gravel, Plastic, Slag & Metal), 511 E 4th

Anderson, Thos. S., 1619 W 3d

Biddle, Samuel (Metal, Gravel, Plastic &
Slag), 102 W 8th

Bullock, Isaac S. (Gravel, Plastic, Slag &
Metal), 708 Shipley

Cooke, Hollis R., 715 Shipley

Davis, E. R., 1704 Lincoln

Delaware Roofing Co. (Gravel, Metal &
Plastic), A & Newcastle av

Dewey, Jas. M., 9 W. 30th

Faulkner, Jas. E. (Slag), 614 Walnut

Faulkner, W. J. (Gravel, Plastic, Slag &
Metal), 428 Queen

Johnson, J. C. & Son, 622 King

Johnson, Wm. J., 909 Walnut

Le Carpenter, Jno. F., 1607 Penna. av

O'Neill, Jos. I. Co. (Gravel & Plastic),
411 E. 4th

Palmer, Wm. M. (Metal, Gravel & Plastic),
101 E 15th

Reese & Bro., 412 King

Robinson, Harry G. (Metal & Slag), 221

Rudolph, Z. Ferris, 108 E. 4th Shipley

Sakers & Co., 915 Church

Schweizer, John T., 525 W Front

Sharpe, Henry D., 107 W 9th

Shuster & Layton (Gravel & Plastic),
2202 Penna. av

Smith, Elmer G. (Metal, Gravel & Plastic),
117 E 7th

Speer, Geo. I. (Slate, Slag, Gravel &
Plastic), 523 E. 4th

Starr, Thos. T. (Metal, Gravel & Plas-
tic), 838 King

Stewart, Geo. B. (Metal, Slag, Gravel &
Plastic), 119 Tatnall

Stradley, Geo. L., Jr., 607 W. Front

Williams, James, 527 W. Front

Williams, Wm. E. Co. (Metal, Gravel &
Plastic), 821 Orange

Wood, J. F. & Co., 301 W Front

DISTRICT OF COLUMBIA.

WASHINGTON—Adams Bros., 1228 Pa. av.,
N W

Alhinson, James E., 1802 14th, N. W

Bennett, James, 1122 18th, N W

Berry, W. O., 1009 E, N W

Blinn, Thomas, 1224 H, N W

Boland, T. M., 2222 Brightwood av, N W

Brand, David (Slate), 23 P, N E

Brown, Geo. B., 602 K, N E

Burns, Theo. A., 137 B, S E

Burrows, Chas. R., 1543 Wis. av, N W

Callan, Jno. F., 108 8th, N E

Casey, Timothy J., 614 L, N W

Castle, W. D., 1218 H, N W

Coberth, Chas. E., 812 14th, N W

Collier & Brosnahan, 229 H, N W

Collins, John W., & Son, 505 O, N W

Cook, John H., 1740 Pa. av., N W

Daly & Hopper, 1630 14th, N W

Davis Bros., 416 10th, S W

Dickerson, Joseph, 701 2d, S W

Dodson & Hodgson, 822 13th, N W

Doyle, John T., 907 R, N W

England, Wm. B., 716 H, N E

Englehart, Frank C., 346 M, S W

Fanning, Chas. J. (Slate & Tile), 220
Massachusetts av, N W

Feddon, James F., 17 Monroe

Flynn, Maurice B., 621 Pa. av, S E

Fry, Thos. R., 904 8th, S E

Gary & Flood, 2118 14th, N W

Giclas, Harry J., 113 4½, S W

Giclas, Louis, 1026 6th, N W

103 Merrimas, Boston, Mass. (See adv.
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Goetzinger, Leo O., 2104 14th, N W

Grafton & Son, 714 9th, N W

Grimes, Philip H., 1057 Warehouse al,
N W

Harrington, John J., 3206 M, N W

Heard, Chas. E., 1007 M, N W

Henshaw, John T., & Co., 736 13th, N W

Huddleston, M. C., & Co. (Slate & Tile),
1218 30th, N W

Hurdle, George, 609 Louisiana av, N W

Jenkins, Guy E., & Co., 633 F, N W

Johnson, Chas. W., Jr., 825 6th, N E

Jones, A. P., & Co., 1528 8th, N W

Kane, Stephen H., 2206 Pa. av, N W

Kennedy, John, 1229 7th, N W

Kirby, Michael P., 2216 14th, N W

Kncas, Gustave, 3122 Brightwood av, N W

Knight, Alex. C., 2707 P, N W

Lanahan, Cornelius B., 222 H, N W

Lingebach, Geo. A., 1109 T, N W

Lipp, Carvallis M., 1524 14th, N W

Lyles, Geo. W., 1308 14th, N W

McCarthy, Dennis F., 1010 M, N W

McConaty, Thos. A. (Slate & Tile), 814
I, N E

McCuen, William H., & Co., 1016 Con-
necticut av, N W

McIntosh, Chas. O., 1206 13th, N W

Madden Bros., 1731 7th, N W

Mallory, Chas., 1115 Q, N W

Marche, Wm. B., 305 E. Capitol

Mathy Co., 1918 Pennsylvania av, N W

Minnis & Martyn, 1501 Fla. av, N W

Mills, Walter R., 232 C, N E

Mitchell, M. C., Co., 3100 M, N W

Moran, John Co. (Inc.), 2126 Pa av, N W

Ockershausen, Chas., 1023 10th, N W

Pepper, John, 2018 14th, N W

Pierpont, Jno. A., 310 12th, N W

Poindexter, Welford, 323 C, S W

Ray, Wm. J., & Co., 802 M, N W

Rose Bros. (Slag & Metal), 1809 14th,
N W

St. John, Alex., & Son, 1233 Wisconsin
av, N W

Shedd, S. S., & Bro. Co., 432 9th, N W

Shelton, Wm. R., 480 Mass. av., N W

Shugrue, Chas. E., 446 11th, S W

Shugrue, John, 1103 7th, N W

Shugrue, John A., 412 Mass. av., N W

Shugrue, Michael, 431 11th, N W

Simmons, Wm. H. G., 512 K, N W

Simms, Jno. H., 1841 7th, N W

Smith, Richard C., 1915 9th, N W

Sommers & Davis, 527 4½, S W

Splawn, Thos. P., 3616 N, N W

Stansbury, Daniel R., 1306 H, N W

Stockstill, D. W., & Co., 211 12th, N W

Symanoskie, Jos., 701 D, N E

Uber, Louis C., 215 C, N E

Waple, Wm., & Son, Linden ct, N E

Ward, A. W., & Son, 1408 Pennsylvania
av, N W

Warren Bros. Co., 27th, c H, N W

Winters, Jas. H., 742 8th, N W

Wright, R. F. Jr. & Co., Kenilworth

Yeatman, Geo. W., 490 Maryland av, S W

FLORIDA.

COCOA—Hindle, Wm.
 DAYTONA—Nash, Clarence & Son
 DE LAND—McDonald, R. D.
 Watts & Miller
 JACKSONVILLE—Bouis, S. G. & Co.
 Hubbard, S. B. Co.
 McMillan Bros.
 Macy & Johnson
 Miller, Jno.
 KEY WEST—Costar, M. R., 121 Simonton
 Page, A. J., Elizabeth & Caroline
 Ocala—Marion Hardware Co.
 Yonng, R. E.
 PALATKA—Griffin, Martin & Co.
 Points, J. D. & Co.
 PENSACOLA—Avery Hardware & Supply Co.
 Vetter, C. B.
 ST. AUGUSTINE—Hamblen, C. F. (Slate,
 Pacetti, Jos. T. & Co. Gravel, etc.)
 SANFORD—Fernald, Geo. H. Hardware Co.
 Hill, A. E.
 TALLAHASSEE—Horton, J. H.
 Yeager, L. C.
 TAMPA—Berry, Wm. J. & Co.
 Howard, Harry
 Lau, K. Richard

GEORGIA.

ACWORTH—Kitchin & Williams
 ATHENS—Bailey, D. W. J. S.
 ATLANTA—Downman-Dozier Mfg. Co. (Slate &
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 Franklin Plumbing & Tinning Co., 121
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 Henry Bros., 308 Decatur
 Hunnicutt, J. E. & Co. (Slate & Metal), 56
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 Jones, W. R. (Slate, Metal & Tile), 98
 Kelley, Alonzo R., 468 Decatur Walton
 McNinch, J. T., 137 Marietta
 Murphy, C. P. & Son (Granite, etc.), 2
 Russell, C. W., 19 Peters Wall
 Shide, A. J. & Co., 105 S Forsyth
 Southern Roofing Co. (Felt, Gravel, Steel,
 etc.), Sou Ry Belt Line nr Van Winkle's
 Strickland, J. W., 9 Peters
 Warlick Sheet Metal Mfg. Co., 60 W
 Alabama
 AUGUSTA—De More, E. A., 112 7th
 Jessup, E. S., 939 Broad
 Slusky, David (Slate & Metal), 1009 Broad
 BARNESVILLE—Hawkins, R. E. Lee
 CARTERSVILLE—Lumpkin Hardware Co.
 CARROLLTON—Campbell, W. S.
 CEDARTOWN—Mee, I. T.
 COLUMBUS—Everett, H. F.
 Gartman, W. D.
 McArdle, H. L.
 Russell, J. C. & Co.
 Sheridan, G. W.
 CORDELE—Hutchinson Lumber & Supply Co.
 GAINESVILLE—Davidson & Pruitt Hardware
 MACON—Howard, W. C., 25 Wall Co.
 Ricks, L. C., Wall st
 MARIETTA—Dobbs Hardware Co.
 MILLEDGEVILLE—Hatcher, R. W.
 Stanley, Joseph
 ROME—Neal, James
 SAVANNAH—Cornwell & Chipman, 103 W
 Cox, C. A., 142 Barnard Congress
 Hahue, F., 212 Drayton
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 Platzblatt, H.
 Sanders, C. M., 127 Jefferson
 Sanders, J. K., 143 Jefferson
 Seckinger & Kane, 151 Whitaker
 THOMASVILLE—Watt, James & Bro.
 VALDOSTA—Briggs, W. H. Hdw. Co.
 WAYCROSS—Harley, P. N. Hardware Co.
 Murray, M. J.

IDAHO.

BOISE—Acme Plumbing & Heating Co.
 Carlson-Lusk Hardware Co.
 Idaho Hdw. & Plumbing Co.
 Loree & Son Hardware Co.
 LEWISTON—Hahn, Chas.
 MOSCOW—Collins & Orland Hardware Co.

ILLINOIS.

ADAMS—Bennett, Frank
 ALBION—Weaver, Geo. & Son
 ALEDO—Detwiler Bros.
 Wells Bros.
 ALTON—Barrett, Jas. L.
 Dezenhaardt, A. J. (Slate & Metal)
 Eckhard Mercantile Co.

Hoffman, H. A.
 Merkle Bros.
 Pitts & Hammill
 AURORA—Choate & Kreamer
 Crampton, J. T.
 Hart, Chas. H.
 Johns & Brown Co.
 Kartheiser, Frank.
 Mall, W.
 Messenger & Parks Mfg. Co. (Slate &
 Metal)
 Plain & Granquist (Slate & Metal)
 Roesch, Geo. E.
 Ryan, Henry
 Tanner, Henry R.
 Thielen, Barney
 Usona Roofing Co.
 Welter, N. P.

BARRINGTON—Bauman, Edward G.
 Schroeder, Louis F.
 BATAVIA—Burton, Geo.
 Grimes, Wm. L. (Metal)
 BAYLIS—Nichols, L. D.
 BEARDSTOWN—Dunn, Robert H.
 Kell, H. C., Main
 BELLEVILLE—Geel, John A.
 Junck, Charles & Co.
 Keil, Adolph
 Lebkeucher, L.
 Louis, Frank J.
 Millitzer, Henry
 Voelkel Bros.

BENSENVILLE—Koelker, Fred.
 BLOOMINGTON—Butler, Harry
 Evans, Jno. W. Sons Co. (Felt, etc.)
 Haase, Emil C.
 Holder, Athey Hdw. Co.
 Larson, John G.
 McEvoy, J. W.
 Morrison, Frank
 Muhl, F. C. (Slate & Metal)
 Parker, Wm. C.
 Popple, M. L. (Slate & Metal)
 Read, G. H. & Bro.
 Schueler, Fred'k

BLUE ISLAND—Claussen, Henry G.
 Schreiber Bros., Western av & James
 BOWEN—Walty, Albert

BUSHNELL—Griffith, J. L. & Co.
 Hoover & Bernhill

OAMP POINT—Stecher, C. F.
 CAIRO—Engler Sheet Metal Works
 CANTON—Luker Bros.

OARROLLTON—Black, S. A.
 Mahoney, John
 Stone, A. H.

CARTHAGE—Boswell, W. E.
 Reyer Fred.
 Sholl Bros.

Taylor & Edwards
 CENTRALIA—Buehler, Fred & Co.
 Zarback, E. F.

CHAMPAIGN—Durr, Alvin C.
 Mollett, Chas.

Terwilliger, A. M. & L. A.
 Trevett, Thos. H.

CHANDLERVILLE—Dorr, Henry
 CHARLESTON—Pinatel, Chas. C.

Schrilver, George
 CHESTER—Fey Stove & Hardware Co.
 Weirich, O. F.

CHICAGO—Acme Roofing Co., 1183 W Con-
 gress

Advance Roofing & Sheet Metal Works,
 4749 Cottage Grove av

Ajax Roofing Co., 180 S Western av

American Tile & Gravel Roofing Co. (Gravel,
 Tile, etc.), 133 La Salle

Anderson & Armstrong, 1011 Sheffield av

Anderson, F. & Co., 101 Clark av

Anglo-American Roofing Co., 972 W Chi-
 cago av

Asphalt Roofing & Mfg. Co., 336 W Ran-
 dolph

Atlantic Roofing Co., 951 N Western av

Atlas Cornice Works (Slate & Metal), 1034
 W 22d

Atlas Roofing Co., 651 W Madison

Bald, Benj., 282 Blue Island av

Bales, O. M., 3962 Cottage Grove av

Balsam, Emil, 180 Blue Island av

Barker, Chas. H., 792 W. Vanburen

Barriball, Chas. H. (Felt, Comp. &
 Gravel), 11444 Indiana av

Barsley, A. L., 2729 Michigan av

Bartels, Chas., 682 W. 14th pl

Baumhmel, John, 564 29th

Beahan, T. & Son, 429 W Lake

Becker, Ferdinand, 1510 Milwaukee av

Behr, Raymond, 24 Rush

Benz & Rossbach, 399 Dearborn

Bergstrom, A. B., 1407 W 59th

Berry, R., 6242 S Centre av

Biegler, Louis, 67 Dearborn av
 Blewer, Wm., 744 Winnemac av
 Black, John (Slate & Metal), 159 92d
 Block, M., & Son, 316 W. 12th
 Bohnett, Wm. R. (Felt, Comp. & Gravel),
 4324 Cottage Grove av

Brady, J., 388 W. Adams
 Brouty, E. S., 818 N Western av
 Brouty, Henry E., 967 N California av
 Brown, J. H. & Co., 310 W Lake
 Brotzky, Joseph, 285 W 14th
 Buckley & Hagan, 651 W Madison
 Burke, Augustus (Comp.), 100 W Superior
 Burke, John (Gravel), 3130 S Halstead
 Burke, John, Roofing Co., 909 W. Madis-
 Lussiere, L. E. & Co., 1183 Congress son
 Chicago Roofing & Supply Co., 1148 Fill-
 more

Clty Roofing Co., 501 W. North av

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Clutterham, Robert, 421 W 75th
 Colby, Edwin L., 763 Estes
 Colver Roofing Co., 11838 Wallace
 Colvin, J. N., 6111 S Halsted
 Connellq, M. C., 1970 W Madison
 Cornell, Geo. H., 960 W Vanburen
 Cortright Metal Roofing Co., 134 E Van
 Buren

Crescent Felt & Gravel Roofing Co., 834
 W. Lake

Crescent Roofing Co. (Comp. & Gravel),
 2821 Calumet

Cunningham, Thomas, 224 W 47th

Cutler, William, 548 S Jefferson

Dahnel, Ernest R., 9363 S. Chicago av

Daly, L. F., 164 Odgen av

Davis & Gleason, 281 35th

De Clark, E., & Co., 91 Randolph

Dermody, Michael, 379 W. Ohio

Doran, John, 217 S. Sangamon

Downing, John, 3107 State

Driever, W. L., 1335 Osgood

Eastern Granite Roofing Co., 98 Jackson
 Boul

Elaborated Ready Roofing Co., 4419
 Wentworth

Elliott, J. M., 411 Blue Island av

Engel, Chas. F., 997 W. Van Buren

Enos, Henry E., 163 39th

Epple, Charles A., 2729 Cottage Grove av

Erickson, John T., 4430 La Salle

Evans, John M., 468 S. Leavitt

Evans & Elchner, 85 Lake

Farwell Cornice Co. (Slate & Metal), 1304
 Southport av

Fein, Samuel H., 309 26th

Fitch Roofing Co. (Slate & Metal), 3738
 Cottage Grove av

Foley & Overholt, 218 Illinois

Ford, Pierce, 38 N. Clark

Ford Roofing Co., 109 W Wash

Forsman, J. A., 441 W. 58th

Fowler, Alex. E., 2932 Elston av

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Giffert Roofing Co., 210 S Western

Givens, Wm., 278 55th

Glowacki, John B., 4528 S Ashland

Goldberg, Jos., 123 Johnston av

Goldenberg Nathan, 180 Sebor

Green & Schmidt, 973 W. 12th

Griffith Cornice Works, 2441 Indiana av

Gross, Geo. M., 1445 State

Gross Roofing Co., 456 W Division

Grove Roofing Co., 6655 Cottage Grove av

Gustafson, Edward, 733 Winona av

Haines, Chas. W., 2187 Lincoln av

Haines & Co., 83 Walnut

Halla, Frank G., 407 W Harrison

Hamer, Fred., 75 North av

Hansman, Martin, 2719 Wentworth av

Hartman, Hermann, 158 Fry

Harvey, Richard J., 428 Johnson

Hazzard & Co., 7030 Cottage Grove av

Heckler, Herman, 351 63d

Henrichs & Renaud, 148 31st

Henschel, E. H. & Co., 4212 Washte-
 Herr, Wm., 610 W. 15th naw av

Hillebrand & Grotefeld, 2271 N Robey

Hoffmann, Wm., 775 N. Halsted

Holmberg, Chas., & Co., 50 Michigan
 Holpuch Roofing Co. (Felt, Comp. & Gravel), 923 S Ashland av
 Hopkins, H. H., Co., 50 Dearborn
 Hopp, Frank, 1153 W. 63d
 Hughes, Peter & Co. (Comp.), 1241 W. Lake
 Illinois Roofing & Cornice Co. (Slate, Tile & Metal), 329 W Kinzie
 Jaeger, Peter, 1799 Milwaukee av
 James, David & Son, 123 S Clinton
 Johnson, John Roofing Co.
 Johnson, Oscar, 273 W. Randolph
 Johnson & Adamson, 5008 Wentworth av
 Kalbaba, Joseph, 215 W. 12th
 Kaminsky, M., 9 O'Brien
 Kasten, Wm., 922 Wellington
 Kelly, Henry C., 100 S Franklin
 Kennealy, Edmund (Comp.), 3008 Loomis
 Kerstowske Bros., 5139 Justine
 Kessin, Chas., 489 W. Chicago av
 Kitzelman & Co., 7333 Wentworth av
 Knickerbocker Roofing & Paving Co., 138 Washington
 Knisely Bros. (Slate, Metal & Tile), 2799 5th av
KNISELY, H. C. CO. (Slate, Tin, Iron & Tile), 273 S. Canal. (See adv. index, end of book)
 Koehler, Anthony, 655 Blue Island av
 Koenig, John, 494 Larrabee
 Kolbe, Otto, 937 N. Western av
 Kozeluh, John, 674 S May
 Kovarsky, L. & Co., 438 S Paulina
 Kraft, Aug. C., 235 Lake
 Krefting, Edw., 119 W. Vanburen
 Kubal, John, 590 W. 17th
 Kubick, Chas. F., 9270 S. Chicago av
 Kuhn, Alex., 229 Larrabee
 Kyle, Geo. A., 80 Hudson av
 Lachele Bros., 2980 N. Ashland av
 Lakeside Roofing Co., 2419 S Park av
 Landquist, Oscar, 546 37th
 Lavin, L., & Co. (Felt, Comp. & Gravel), 386 W. 14th
 LeClair, Adrian, 108 Flournoy
 Liddle, Robert, 2608 State
 Lincoln Roofing Co. (Felt, Comp. & Gravel), 1413 N Clark
 Livingston, John, 256 35th
 Lothamer, Louis W., 435 W Lake
 Lovedale, Orville, 775 N Park av
 Lozier, Chas. B., 808 120th
 Lyman, Albert, 1071 W Madison
 Lyman, Wilfred C., 49 Michigan
 McCarthy, Jos., 423 N. Clark
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 McIlroy Cornice Works, 1519 State
 McKeon, Christopher J. (Comp.), 791
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 McMahon, M. J., 1254 S. 43d av
 McMorran, Edw. E., & Co., 15 N. Clinton
 Maehler, Paul Co., 203 W Lake
 Maguire, James S., 681 Warren av
 Marcus, Bernard, 278 Blue Island av
 Mathiesen, Anton, 220 Grand av
 Mathiesen, E. C., 90 W Ohio
 Meador, J., & Co. (Comp. Felt, Gravel & Metal), 186 Washington
 Meister, Otto, 1000 N. Sawyer av
 Mellish, F. & Co., 123 Kinzie
 Merchants' Roofing & Supply Co., 106 Grand av
 Miller, Isaac E., 792 W. Chicago av
 Miller, James A., & Bro. (Slate, Metal, Tile, etc.), 136 S. Clinton
 Miller, Otto V., 5111 State
 Millington, Arthur, 965 S. Homan av
 Mitchell, Wm., 157 S. Desplaines
 Monarch Roofing Co., 1436 Ogden av
 Moore, Edward Roofing Co., Cham of Com bldg
 Moore-Maguire Roofing Co., 138 Washington
 Morris Roofing Co., 565 N. Robey
 Mosheik, Philip, 421 S. Halsted
 Motzer, John J., 1506 N Maplewood av
 Mund, Paul F., 131 Clybourn av
 Murdoch, William, Co. (Felt, Comp. & Gravel), 145 La Salle
 Nadel, Samuel Sons & Co., 2476 Archer av
 Narowetz, Louis, 203 Kinzie
 National Roofing Co., 3223 La Salle
 Nelson & Bergstrom, 246 Janssen av
 Newman, Alex., 2940 Wentworth av
 Noebeling, Wm., 399 North av
 North Chicago Roofing Co. (Felt, Comp. & Gravel), 128 North av
 Northwest Ready Roofing Co., 1293 N Western av
 Norton, Daniel H., 16 Churchill

Noyes, E. A. (Slate & Metal), 584 W Lake
 Nyman, Aug., 3152 State
 O'Brien & Co. (Gravel), 4705 State
 O'Brien, John, 215 S. Clinton
 Offersen, Louis, 827 W. North av
 O'Donnell & Wilder, 952 W. 12th
 Parrott, Wm., 4532 Cottage Grove av
 Patent Vulcanite Roofing Co., 625 Campbell
 Peterkin, John, 47 Michigan bell
 Powell, M. W. Co. (Flax Felt, Wool Felt & Flat Tile) 204 Dearborn
 Powell & Jones (Comp.), Monadnock blk
 Prairie, Frank, 3424 State
 Price, Jacob (Felt, Comp. & Gravel), 381 Larrabee
 Progress Roofing Co., 154 W. Division
 Purdy & Cauble (Felt, Comp., Gravel & Metal), 800 W. 63d
 Randolph, Charles W., 825 Clifton av
 Raymaker Roofing Co., 463 W Lake
 Ready Roofing Co., 5239 S Ashland av
 Redmond, Timothy J., 1583 Harvard
 Reif, Max A., 360 N. Winchester av
 Reliable Roofing Co., 466 S California av
 Renaud, F. D. & Co. (Comp., Felt, Gravel & Metal), 615 31st
 Renaud, J. P., & Co., 3708 5th av
 Renaud Roofing Co., 3530 Wentworth
 Rice, C. H., & Bro., 249 57th
 Richards, David M., Roofing Co. (Comp.) 238 31st
 Riebel, F., & Co., 6217 Wentworth av
 Riedl, Anton, 1259 W. Lake
 Roessler, Albert H., 494 W. North av
 Rood, Geo. L., 238 Lake
 Roop & Grupell, 77 Vanburen
 Rosenbaum, H. Roofing Co. (Felt, Comp. & Gravel), 3326 State
 Rosenow Bros., 927 Otto
 Ryan, Samuel R., 1115 N. Halsted
 Rysdon, Louis S., 66
 Schanze, Fredk. H., 600 W. 12th
 Schlundt, Fredk. M., 58 Blue Island av
 Schmidt, Herman, 344 Clark
 Schmidt, W. C. & Co., 973 W. 12th
 Scholl, Theo. F., 3036 Archer av
 Schuld, Jacob, 441 S. Lincoln
 Schuler, J. F., 94 E. Fullerton av
 Schumacher, N. G., 740 Belmont
 Schuth Bros., 1293 N Western av
 Seela, Max, & Co. (Shingle, Tar & Gravel), 775 W. 21st
 Seldler, Lewis, 591 Noble
 Shaffer, H. R., Co. (Gravel), 145 La Salle
 Shinn, Seth L., 700 W. Lake
 Shipley, Jos. T., 201 Warsaw av
 Simpson, Robt., 5722 State
 Smith, Chas. H., 242 40th
 Smith, J., & Co. (Slate & Metal), 1344 W. 22d
 Spencer, Geo. L., & Co., 140 N. Central Park av
 Standard Roofing Co. (Comp.), 294 N. Halsted
 Steffey, C. A., 977 N Halsted
 Stieber, Jos., 400 N. Ashland av
 Stoops, G. B., & Bro. (Comp., Slate & Metal), 449 Grand av
 Stowell Mfg. Co., 47 Market
 Sykes Steel Roofing Co. (Slate, Tile & Metal), 114 W 19th pl
 Taylor, Walter G., 1102 75th
 Thoresen, William, 419 W. North av
 Troxel, John, 645 W. Kinzie
 Turner, R., 353 W. Lake
 Universal Cornice & Roofing Co. (Slate, Metal & Tile), 970 S. Troy
 Vallas, Wm. H. (Felt, Comp. & Gravel), Vogt, Anton, 605 Root 1325 W. Lake
 Voigtman, Fk., Cornice Co. (Slate, Tile & Metal), 91 Indiana
 Wall, C. L., & Co., 507 39th
 Warren, Jas. P., 215 Austin av
 Watson, W. D., Co., 302 W. Vanburen
 Well, Herman Roofing Co. (Comp.), 591 N Wells
 West, B. F., & Co. (Comp., Felt & Gravel), 217 W. Madison
 West Coast Co., 153 La Salle
 Westermann, Christian, 324 N. Ashland av
 Western Roofing Co., 2357 La Salle
 Wheeler, B. W. (Comp.), 1074 58th
 Wheeler, John J., 290 N Halsted
 Wheeler & Thomas Roofing Co. (Comp.), 169 N. Wells
 White Bros., 1347 Fulton
 Wille, C. H., 11834 Wallace
 Wilson & Friend, 3136 S Canal
 Woodley, Jas. C., & Co., 2256 Lumber
 Worthington, Wm. R., 259 Rush
 Wright, J. W., 1425 Fillmore
 Wright, Wm., 415 W Van Buren

Wyatt, W. E. (Felt, Comp. & Gravel), W. Garfield boul., cor. State
 Yeldham & Keusder, 269 W Van Buren
 Yeske, Robt. H., 468 S Western av
 Zeh, Henry C., 830 S Troy
 Zeller, John H., 3102 N Irving av
 Zeller, Joseph, 3112 Butler
 Zenner, John P., 28 N Desplaines
CLINTON—Killough, John Metz, Herman
COLLINSVILLE—Kluge Bros. Ruemler, Charles
CRETE—Dierson, Henry W.
CULLOM—Cook, P. J.
DANVILLE—Bireline & Orr (Slate & Metal)
 Brant, Edw'd H.
 Dietz & Senger
 Dobbins & Lahr
 Goth, Wm.
 King Bros. (Slate & Metal)
 Koons, William U.
DECATUR—Adkesson, C. B.
 Bane, G. T.
 Decatur Cornice & Roofing Co.
 Dennis, B. M.
 Fahey, M.
 Morehouse & Wells Co.
DE KALE—Duan, John
 Sheets & Knodde Co.
DIXON—Herrick, W. A.
 Hofman, John
 Howell, E. N. Hdw. Co.
 Slothower, R. J. & Sons
DU QUOIN—Kimmel & Yehling
EAST MOLINE—Aldrich & Potter
EAST ST. LOUIS—Boyles, Frank P. & Co.
 Haines, O. J. & Son (Gravel)
 Schauh Hardware & Iron Co., 312 B'way
EDINBURG—Ballett, Jacob (Slate, Metal & EDWARDSVILLE—Bernreuther, Fred Tile)
 Kellar, E. A. Co.
 Kriege, W. C. & Co.
 Tuxhorn Bros. Hdw. Co.
ELGIN—Barclay, D. F.
 Davis & Little
 Juhy, A. C.
 Kimball-Dietrich Hdw. Co.
 King, John W.
 Klitzgen, Aug.
 Meehan, William J.
 Ziegler Bros.
ELMHURST—Fiebrandt, Henry
 Most, Wm.
EL PASO—Baker, Joseph
 Hass, Peter & Sons
 Waite, A. H.
EVANSTON—Connor, J. C. Co., Davis
 Connor, Thos. E.
 Davis, Wm.
 Drummond, A. & Co.
 Hedblom, Fred. W.
 Peterson, N. G.
 Moore, A. H.
FREEPORT—Freeport Hdw. Co.
 Parker, M. L.
GALENA—Asmus, C. A., 194 Main
 Kempter, Frank
GALESBURG—Bliss, H. C.
 Galesburg Cornice Works (Slate, Metal & Tile)
 Murphy Bros. & Anderson (Slate, Metal & Tile)
 Rearick, F. H. & Son
 Hvaren, Oscar
 Willis Mfg. Co. (Slate & Metal)
GENESEO—Becker, Theo.
 Bolte, Hy
 Hannon, Kidney & Ryan
GENOA—Sager, Thomas G.
GILLESPIE—Schmidt, F. E. Hardware Co.
GOLDEN—Franzen & Miller
GRANITE CITY—Bischoff, Henry H.
 Bristow Hardware & Snpply Co.
GRIDLEY—McNaught, C. E.
 Niergrath & Donnelly
HAMILTON—Wetzel, L. F.
HAMPSHIRE—McGrath & Widmayer
HARRISBURG—Seten, R. & Son
HARVEY—Cassell, Isaac & Son
 Hilbish, D. H.
HAVANA—Geary, G. W.
HIGHLAND PARK—Purdy, D. C. & Sons
 Sullivan, O. P.
HILLSBORO—Brown, Geo. W. (Slate, Comp. & Metal)
 McDavid, J. L. & Co.
HINSDALE—Bohlander, Jno. & Sons
HOOPESTON—Werner, E. B. (Slate & Metal)
JACKSONVILLE—Brennan, J. F. (Slate & Metal)
 Brady Bros. Hdw. Co.
 Gay, Geo. S.
 Johnson & Hackett
 Smith, H. L. & B. W.
JERSEYVILLE—Cory, J. E.
 Daniels, H. S.

JOLIET—Meers, Robert
Poehner & Dillman
Schuessler, Albert M.
KANKAKEE—Bregenzner, O. C.
Crevier, F. X.
Reuter, Henry (Slate, Iron & Comp.)
Sauer, Jacob
Troup, H. H. & Co (Felt)
KEWANEE—Butterwick & Bro.
Kennish Hardware Co.
KIRKWOOD—Wise, E. F.
KNOXVILLE—Tate, Frank M.
LA GRANGE—Blaser, Jno
Schwenck, Frank
Stuessy Bros.
LA HARPE—Coulson, Brundage & Co.
LAKE FOREST—O'Neill, Jos. W.
O'Neill, Wm. J.
LA SALLE—Boyle, T. & Bro.
Camenish Bros.
Gruenwald, Julius G.
Heilstedt Hardware Co.
Herrcke, Robert T.
Nelly, T. K.
LEBANON—Sager, C. H. Hardware Co. (Slate & Metal)
Stoffel Bros.
LE MONT—Friedley, F. T.
LEWISTOWN—Ewan & Purdy
Grier, Cullen
LEXINGTON—Strayer, Sarah F.
LIBERTY—Austin, Cornelius
LIBERTYVILLE—Eger, H. B.
LINCOLN—Debner, J. P. (Slate & Tin)
Oltz, Fred.
Reinhardt's M. Sons
Yeager, Edw. W.
LITCHFIELD—Clearwater, N.
Hiller, Henry
LOCKPORT—O'Connell, Wm.
LONDON MILLS—White & Wolford
LYONS—Bittig, Chas.
Waller, Fred.
MACOMB—Campbell, J. W. & Co.
Rice & Frowein
MANITO—Marshall, J. A. & Co.
MARTINSVILLE—McNary, H. V.
MASCOUTAH—Guth, A. H.
Keller, B. R.
Stoffel, J. W.
MASON CITY—Chambers, O. E.
MATTOON—Webber, O. B.
MAYWOOD—Ruden, John
MECHANICSBURG—Freeto, G. L.
MELVIN—Stathers, W.
MENDON—Thompson, Wm.
MENDOTA—Edwards Hardware Co.
Schultz, August
Wittgan, Frank
METROPOLIS—Craig, J. H. & Co.
MILSTADT—Nolte, Geo.
MOLINE—Bergen, R. D.
Berglund, C. A. (Metal)
Hager, Jacob
Hemmingson, C. & A.
Lewls, F. J. Mfg. Co.
Parks, Hugh H.
Reid Co.
Samuel, W. B.
Willis & Sons Co. (Slate & Metal)
MOMENCE—Aster, Charles B.
MONMOUTH—McCullough Hdw. & Impl't Co.
Van Valkenburg & Son
MONTICELLO—Harris, Henry P.
MORRIS—Croning, D. G.
Donahue, C. G.
MORRISON—Robinson, Wm. G.
Sauer, H.
Woods, Oscar
MORRISONVILLE—Wyckoff, C. A.
MORTON—Reuling, Fred.
MOUND CITY—Hough, W. W.
MOUNT CARROLL—Jessen, Otto
Squires, Thos., Hardware Co.
MOUNT STERLING—Bredendand, J.
Briggs, Hersman & Parker
O'Neill, Martin A.
MOUNT VERNON—Hinman & Mathews
Stratton, R. L.
MURPHYSBORO—Stoetzle, John & Bro.
OAK PARK—Kaltenbach, H. W.
Purnell, Enoch
Steger, Peter
OLNEY—Jolly, Welland & Richardson
ONARGA—Amernan, M. T.
OREGON—Gilbert, F. M. & Son
Sheets, B. F. Co.
OTTAWA—Fischer, Fred L.
Jordan, R. C.
Palsley, Wm. C.
Pearson's, Sam'l S. Sons
Reflor Hardware Co.
Walter, Jno. (Slate & Metal)

PANA—Brown & Custer (Metal & Comp.)
Haywood, H. L.
Paul, G. A. (Slate & Metal)
PARIS—Bovell, J. B. (Slate & Metal)
Hannah, A. A., Jr.
PAXTON—Corbett Bros.
Cruzen, R. Co.
PEKIN—Jaecel & Son
Pekin Hdw. Co.
Schuttler, Martin
Splittgerber, Chas. & Son
PEORIA—Aylward, R. C. (Slate & Metal), 916 N Adams
Bushell, A. A. & Son (Slate & Metal & Gravel), 1317 S Wash'n
Dickson Co., The, 206 S Jefferson av
Gardelka, Ernest, 510 Steubenville
Hunter & Strehlow (Slate & Metal), 114 S Adams
Johnson, Charles Hardware Co. (Slate & Metal), 2023 S Adams
Kavanaugh, P. H., 227 S Madison av
Kellerstrass, Robt.
Martens, Wm.
Meyer, F. & Bro. & Co. (Slate & Metal), 1313 S Adams
Orr, Samuel M., 407 S Washington
Russell, H. V., 1110 N Adams
Traeger, Fred'k W. (Slate, Metal & Steel), 719 Main
Strehlow, Rudolph
Weber, Frederick J., 1007 Warner av
Wilson, Robt. L. & Co., 3017 S Adams
PERU—Soedler, Geo. & Sons
PETERSBURG—Clary, W. P.
Kahn, Marcus
Seese, C. A.
Seese, John H.
PINCKNEYVILLE—Stokey, V. A. & Son
PITTSFIELD—Clayton Hardware Co.
Lloyd Hardware Co.
PONTIAC—Lauth, Joseph
PRINCETON—Cowley, T. C.
Gibbs, H. D. & Sons
Glynn, John & Co.
Priestley Hdw. Co.
QUINCY—Albright Bros. (Gravel, etc.)
Berghofer-Mitchell Co. (Slate, Tile & Metal)
Comstock-Castle Stove Co. (Metal)
Frederick, Edw. (Slate & Metal)
Gross, Frank C.
Meyer & Schell
Schaller, Geo. C.
Scheipering, Gustav
Scheipering & Lohman
Schwendeman, George
Thoele, Wm. H.
Weinboener & Schild
Wilson, W. C. (Slate & Metal)
Winking, George
Wurst, C. H. Co. (Slate & Metal)
Ziener, Alois
Ziener Bros. (Slate & Metal)
ROCK FALLS—Taylor, E. U.
BROCKFORD—Allen, John C. (Tar & Gravel)
Drake-Tucker Hdw. Co. (Slate & Metal)
Harder, Alex. P.
McGuire Bros. (Tin, Tile & Slate)
Mosecrop, R. J.
Ralston, J. B. & Son
Skandia Hdw. Co.
ROCK ISLAND—Allen, Myers & Co., 1821 2d av
Bertelsen, Jno. (Slate & Metal), 523 22d
Burgess, J. J., & Co.
Kroll & Johnston
Lewis Roofing Co. (Asphalt, Gravel & Felt), 2325½ 3d av
Semon, H. T.
Wilcher, Phil. S.
RUSHVILLE—Griffith Hardware Co.
Parrott & Kerr
SHELBYVILLE—Lantz Bros.
SPRINGFIELD—Armstrong Bros
Cooper, J. W.
De Souza, Chas.
Edmonds, Fred. E.
Foster, Wm. & Sons Co.
George Bros.
Kreigh, E. M. Co.
Lauterbach, Peter
Mathies, R.
Melcher, Oscar A.
Neuman, J. C. (Asbestos & Metal)
STERLING—Davis, Chas. A.
Phillips, J. E. & Co.
Taylor, F. R. & Co. (Slate & Metal)
STREATOR—Alband, John
Howe, L. D.
Reifferscheid, W. & Co.
SYCAMORE—Haight Bros. Hdw. Co.
Ohlmacher, C. J.
Brower, A. W.
TAYLORVILLE—McGahan, Wm. H. (Slate & Metal)
TOULON—Ward, C. D.
TRENTON—Koentz, L. M.

TUSCOLA—Cox, C. E.
UPPER ALTON—Hoffman, J. B.
URBANA—Grant, F. M.
Green, J. D.
VIRGINIA—Lang, F. C.
Meade, Thos.
WAUKEGAN—Bangs, Henry A.
Dodge, W. H.
Lanyon, J. & Son
Melody, Wm. A.
West Coast Co.
WENONA—Barrett, Frank
WHITE HALL—Brantzel, M. G.
WYANET—Olds & Hamilton

INDIANA.

AKRON—Miller, Wm. C.
ALBANY—McCormick Bros. Co. (Slate, Gravel & Metal)
ALBION—Baughman, D. L. (Asbestos)
Berger, J. D. (Metal & Felt)
ANDERSON—Babcock, Robert G.
East, D. C. & Son
Epperson, Geo. B.
Nichol Hardware Co.
ANGOLA—Woolford, Walter M.
ATTICA—Powell, Thos. M.
AUBURN—Bearet, Louis J.
Conrad, A. H.
AURORA—Langley, A.
Spaeth, H. P. & Co.
BATESVILLE—Krieger, Wm. & Son
Schrader, H. F. E.
BEDFORD—Ramsey & Matthis
BLOOMINGTON—Davis Hardware Co. (Gravel, Slate & Metal)
Mooney, Wm.
BOONVILLE—Kinderman's, Wm. Sons
Shafer Bros.
BRAZIL—Hawkins, O. C.
BREMEN—Breunlin, W. G.
Steinick, J. H.
BROOKVILLE—Fleber & Holmes
BROWNSTOWN—Bolles, W. R.
CAMBRIDGE CITY—Hollowell, Jos.
CARLISLE—Risinger & Eills
COLUMBUS—Brooks Bros. (Slate & Metal)
Browning, Thos. R.
Loesch & Williams
Schwartzkopf, J. G. & Son (Slate & Metal)
Volland, F.
CONNERSVILLE—Cain, Harry
COVINGTON—Coffing, T. M.
Mayer, M., Jr.
ORAWFORDSVILLE—Bappert, A. & Son
Davis, Frank
Schenk, Henry T.
DECATUR—Brock, John
DELPHI—Barnett & Mohr
ELKHART—Borneman & Sons
Garvin & Co.
Klaer, Frank L.
EVANSVILLE—Anchor Roofing & Paving Co. (Gravel), 915 River Front
Anchor Supply Co. (Asphalt & Gravel), 128 U Water
Anderson & Veatch
Attinger, Wm. F. (Metal), 309 L 1st
Blemker, L. A. & Son
Bohn, Chas. (Metal), 1319 Main
Bush, E. M. Hardware Co. (Felt & Gravel), 505 Main
Groeninger, J. J. & Co. (Metal), 400 L 2d
Jurgensmeier, Edw. (Slate), 610 E Columbia
Koch, Geo. Sons (Gravel & Metal), 1014 W
Koch Stove & Hardware Co. Penna
Kreipke, J. H. & Co. (Metal), 510 W
Lohse, H. Co. (Metal), 7 2d av Franklin
Mesker, Geo. L. Co. (Iron & Steel)
Meyer, Jos. A. (Metal), 1407 Main
Moran, Mich'l & Son (Metal), 316 U Water
Ohio Valley Roofing Co. (Slate), 318 U 2d
Puder, Fred (Metal), 730 Vine
Schminke, H. & Co. (Slate & Metal), 1 2d av
Schmitt, Aug. & Sons (Metal), 607 Main
Schwink, Jos. J., 1105 W Franklin
Sonntag, G. W. (Felt & Gravel), 228 2d av
Thiele, J. A. & Co. (Metal), 108 U 3d
FAIRMOUNT—Bryan, A. D.
Dale, J. W. (Slate & Metal)
FORT BRANCH—Lawton, F. P.
Stone, W. I.
FORT WAYNE—Ash, H. J.
Bohen, T. H.
Fort Wayne Roofing & Paving Co. (Asphalt & Cement)
Frelburger Hdw Co., 360 Calhoun
Gerding & Aumann Bros. (Slate, Metal, Asphalt, etc.), 115 Wallace
Pranger, Wm.
Schlatter, C. C. & Co., 38 E Columbia
Seavey Hardware Co., 19 W Main
Stanb, A. H., 22 E Columbia
Welch, J. H. & Sons (Tile, Metal & Asphalt), 190 Calhoun

GAS CITY—Garthwaite Hdw Co.
GOSHEN—Hawks Hardware Co.
GOSPORT—Burkett, A. H.
GREENCASTLE—Meltzer, Chas H.
GREENFIELD—Banks, A. J. & Son (Slate, Tin & Steel)
 Griley & Johnson
GREENSBURG—Corbett & Rohe (Slate, Metal)
 Mendenhall, James E.
HAMMOND—Lundt & Carley Roofing Co.
 Minas, E. C. Co.
 Mueller, P. H.
HUNTINGBURG—Bamberger, Phil.
 Dufendach Hardware Co.
 Shurig, Chas.
HUNTINGTON—McCartney, Geo. M.
 Miller, Christian
 Nave, Samuel S.
 Reichenbach & Wickenhiser
 Shock, J. W. Co.
 Stevens, E. M. (Slate)
INDIANAPOLIS—Abel & Doyle (Slate & Metal), 229 Indiana av
 Albrecht, Chas., Co., 874 Mass. av
 Bouvy, Julius H., 1118 Prospect
 Braughton, McCullough, 727 Mass. av
 Brown, Jos. H., 1125 Woodlawn av
 Carroll, Jas. P., Broadway & 10th
 Cox, Rich'd., 916 E 6th
 Crompton, Ebenezer, 908 Ft. Wayne av
 Ehrich, Wm. G., 120 E. Maryland
 Enders, Aug. C. F., 1006 E Washington
 Enners, Chas. H., & Co., 408 Mass. av
 Ensey, Orvls B. (Slate, Gravel & Metal), 1308 N Senate av
 Eschenbach, Moritz, 1718 Madison av
 Escot, Hyman, 868 Virginia av
 Evans, Jesse A., 1020 N Beville av
 Fehr, Charles C., 710 E. 19th
 Fitzwater Bros., Warman av & Michigan
 Frand, Edward D., 714 Virginia av
 Frick, Julius, 1800 Orange
 Gardner, Jos. (Slate & Metal), 41 Kentucky av
 Gauss, Chas. A., 721 Russell av
 Gerkin, John E., 3006 N. Illinois
 Goebler, Henry, 307 W. 16th
 Goldstein & Son, 1016 S Meridian
 Hadley, Thos. E., 146 Kentucky av
 Harmon & Hall (Asphalt & Gravel), 137 W. Wash.
 Havens, D. F., 36 McLean pl
 Hawkins Rollyn Co.
 Hoover, Ralph P., 1515 Buchanan
 Horton, Benj. F., 1214 Blaine av
 Humphreys & Sargent (Slate & Metal), 124 E. Court
 Jacobs, Wm., 1917 W. Wash'n
 Kalb, John, 1419 N. Illinois
 Lauck, Jno., & Sons, 1004 S. Meridian
 Laut, H. W., & Co., 630 Fletcher av
 Lieberman, Louis, 616 S. West
 McCain, Jos. C., 549 Arbor
 McCready, Benj. F., 935 Ft. Wayne av
 Maier, Charles, 2104 W. Michigan
 Mast, G. J., Heating Co., 643 Mass. av
 Messmer, Edward W., 1025 Madison av
 Nahre, Richard, 22 N Ritter av
 Nelburger, Sam'l, 819 Mass. av
 Newhouse, Azariah, 2426 N. Olney
 Off, Christian, & Co. (Slate & Metal), 5 N. New Jersey
 Powell, Geo., 335 Virginia av
 Price, Edward S., 141 W. 21st
 Prunk, Frank H., 522 Indiana av
 Quack Bros., 1150 Spruce
 Reeder, Ralph R., 312 E. 16th
 Shepard & Berg, 2864 Clifton
 Sheppard, Wm. C., 1101 W. 30th
 Smith, Frank, 829 N. Temple av
 Smith, James I., 2513 W Washington av
 Smither, H. C., Roofing Co. (Tar, Pitch, Comp., Felt & Gravel), 330 S. Penn
 Smither, T. F. (Comp., Asphalt, Gravel & Pitch), 332 W Maryland
 Smock, Howard A., 439 Mass. av
 Steeb, John, 521 Lincoln
 Sullivan, Wm. A., 517 King av
 Symmes, H. H., Co. (Asphalt, Comp., etc.), 144 Kentucky av
 Troy Bros., 142 S. Delaware
 Turner, Alvin H., 122 E. 24th
 Turner, Major W., 405 Hormau
 Weinland, Albert H. (Slate & Metal), 942 Ft. Wayne av
 Willis, Jonathan, 932 Indiana av
 Wright, Wm. L., 614 E. Washington
 Zimmerman, C., & Sons (Comp., Slate & Metal), 19 S. East
JEFFERSONVILLE—Bennett, Geo. W.
 Lindley, Thos. J.
 Overholser, H. G.
JONESBORO—Jackson Bros.

KENDALLVILLE—Loomis, Edgar S.
 Zera & Bliss
KNIGHTSTOWN—Kennard, F. M.
 Verry, George W.
KOKOMO—Armstrong-Landon Co. (Slate & Metal)
 Werbe, W. H.
LAFAYETTE—Boyle, D. M.
 Co-operative Tin Shop
 Hicks, John B. & Son
 Howe & Shipley (Slate & Metal), 336 main
 Lehnen & Reltemeler
 Neumann, J., Hardware Co.
 Reltemeler, F. & Son, 203 Columbia
 Strate, William F.
 Sale, A. C.
LAPORTE—Decker Bros.
 Lower's, Jas. Sons
 Webber, Hdw. Co.
 Wunsch, E.
LAWRENCEBURG—Barrott, E. & Son
 Emerson, W. A.
 Kidd, H. G.
 Stuber, F., & Son (Slate & Metal)
LEBANON—Tice & Brown
LIBERTY—Fosdick, F. F.
 Peters, H. C.
 Shafer, I. E.
LOGANSPOUT—Dille, C. L. & Co. (Tar & Gravel), 515 Market
 Eberlein, C. Augustus (Metal & Slate), 506 12th
LOWELL—Burnham Bros.
 Death, George M.
 Sanders, E. L.
MADISON—Davison, Nellie A. (Mrs.)
 Eckert, John Sons
 Hoffman, Peter
MARION—Beshore, Chas. (Metal & Slate)
 Brown, Wm. Co.
 Clifford, L. L. & Co.
 Curran, F. V. & Son (Gravel & Tar)
 Hollinger, M. G. & Co. (Slate & Metal)
 Jones, O. S.
 Swanger & McClane (Slate, Iron, etc.)
MICHIGAN CITY—Bartholomew & Co. (Slate)
 Klopsch, Otto & Son
 Stalger Hdw. Co.
MISHAWAKA—Albert & Hunshnurger
 Distler, Jno. C.
 Lang, O. E. & Co.
 Swanger, J. Q., Jr.
MOUNT VERNON—Gronemeyer's, S. H. Son
MUNCIE—Cook & Miller
 Doyle, Thos. F.
 Noland Roofing Co. (Pitch, Gravel, Asphalt, etc.)
 Warfel, Wm. H.
 Wells, A. T.
 Young & Kessler
NEW ALBANY—Creed, W. B.
 Huncilman, R. A.
 Miller Bros.
 Plumer & Co.
 Walter, John J.
NEW CASTLE—Michael, C. A. & Son
 Shriner, Jas. C.
NOBLESVILLE—Clark Supply House (Felt & Steel)
 Longley, W. E.
 Michaels, Milton & Son
 Thompson, Jacob (Iron & Tin)
NORTH MANCHESTER—Frame, D. & Son
 Lockwood, J. B.
 Stewart & Nofzger
PERU—Cloud, Levi
 Soames, Chas.
PLYMOUTH—Armstrong, H. A.
 Eich, Chas. J.
RICHMOND—Johnson, Peter Co. (Slate, Metal & Gravel)
 Johnson, W. N. (Slate & Metal)
 Schultz & Laning, 186 Ft. Wayne av
 Woodhurst, C. R.
RUSHVILLE—Beale, John S.
 Clark, M. B.
SEYMOUR—Cordes Hardware Co. (Slate, Tin & Iron)
 Frederick, Geo. M. (Slate, Tin & Iron)
 Kessler Hardware Co. (Slate & Metal)
 Union Hardware Co.
SHELBYVILLE—Brown & Boehning
 Howard, Lon (Slate)
 Pearson J. C. & S. (Slate)
SHERIDAN—McCarthy, Wm. R.
 Scott, Geo. W.
SOUTH BEND—Folsom, Chas. G. Mfg. Co.
 Huber, Andrew & Son (Gravel & Comp)
 Lauber, J. C. & Co.
 Melkus, Carl
 Meyer, G. E. & Son (Slate & Tin)
 Sibley, I. A. (Slate & Tin)
 Zeltner Bros.
TERRE HAUTE—Anstlin Hardware Co.
 Bukenhofer, Thos., 1347 Wabash av
 Deady, Patrick F.

Dudley, A. W. & Co.
 Fenner, S. L. Hardware Co., 1200 Wabash
 Fromme, A., 1701 S 7th
 McAdams, John (Slate & Tin), 1409 S 2d
 Manion, John (Slate & Tin), 905 Main
 Moore, John T. (Slate & Tin), 725 Wabash
 O'Connell, James F.
 Smith, C. C. Sons Co. (Slate & Tin), 30 Wabash
 Townley Hardware & Stove Co. (Slate & Metal), 429 Wabash av
TROY—Lindauer, Anton
UNION CITY—Kerr, John F.
 Shank, E. & W. A.
VALPARAISO—Patrick, J. H. & Son
VEVAY—Goldenburg, W. F. (Metal), 412 8th
VINCENNES—Dubols Bros.
 Lauby, C. W.
 Smith's, N. Sons
 Watson, H.
WABASH—Carpenter Bros.
 Kling, McNamee & Hlpskind
 Lawrence, Russell
 Wabash Cornice Works
WASHINGTON—Carnahan, M. J. Co.
 Hatfield & Palmer Co.
WINCHESTER—Hoffman, D. E. (Slate)
 Smith, Geo. W.

IOWA.

ACKLEY—Carstens Bros.
ALBIA—Barger, C. S.
 Duncan & Duncan
ALGONA—Robinson, J. W.
ANAMOSA—Scott, W. B.
AUDUBON—Hoover, G. W.
BOONE—Deering, Chris.
 Johnson Hdw. Co.
 Noland, L. C.
 Wheelock Hardware Co.
BURLINGTON—Forney, J. H.
 Haffner, Chas.
 Hillen, C. F.
 Kaut & Kreischbaum
 Kriebbaum & Dewein
 McMillan, E.
 Scott, J. M. & Co.
 Wagner, J. F.
 Woellhaf, Otto J.
 Woepking, Theo.
CEDAR RAPIDS—Ring Bros.
 Swab, C. H. & Co.
 Wagner, Clinton D.
CENTERVILLE—Goss, Joseph & Son
 Peatman, C. A.
CHARITON—Ensley, G. W.
CHARLES CITY—Snyder Bros.
CLARENCE—Jons, Henry A.
CLARINDA—Spring, John
CLINTON—Armstrong, C. E. & Co. (Slate, Calnan, W. H. Iron & Tin), 238 5th av
 Dean, M. J. & Co.
 Hansen, H. C.
 Nothar, Henry
 Stukas, C. E. & Son
 Union Roofing & Mfg. Co.
 Wulf, Peter C.
COUNCIL BLUFFS—Amy, W. S.
 DeVol, P. C. Hardware Co.
 Jones, H. R.
 Petersen & Schoening Co.
 Spencer, F. A. Furnace & Sheet Metal W'ks
CRESCO—Lomas & Farnsworth
 Strayer, E. C.
CRESTON—Edgerton, E. E.
 Patt, Jas. H.
DAVENPORT—Brauch, John C.
 Davis & Wright
 Detlefsen & Moeller
 Hipwell, Chas. G. (Slate, Metal, etc.)
 Kuehliche, Herman
 Lerch, A. J. Co., 120 W 3d
 Relmers, Peter A.
 Schebler Bros.
 Weidner, Wm., Jr.
 Wriedt, E. F. & Son
DECORAH—Ridne & Istad
DENNISON—Romans, J. B. Co.
DES MOINES—Backman Steel Metal Wks
 Barrick & Son (Asphalt, Slate & Metal), 911 Walnut
 Drake Roofing Co. (Gravel & Slate), 210 5th
 Fischer, John
 Fisher, Frank (Metal & Slate), 714 Locust
 Kurtz, L. H. Co. (Metal), 600 E Grand av
 Nelson, A. V. Co., 600 E Grand av
 Nichols Roofing Co. (Gravel, Composition & Asphalt), 200 W 4th
 St. John & Barquist Co. (Slate, Gravel, Tin, etc.), 418 8th
 Sheldon, Geo. W., 811 Locust
 Steel Roofing & Stamping Works (Metal), 506 Jefferson

DUBUQUE—Gruher, W.
Jonas, D. J.
Key City Roofing Co. (Gravel & Asphalt)
Klauser Mfg. Co. (Slate, Tile & Metal), 1351
Lalley, James
Lyons & Lyons (Slate & Metal), 172 Main
Oswald, Chas. J.
Ris, J. F. & Bro. (Metal), 648 Main
Schlenker, Paul
EL DORA—Stauffer, Chas. F.
ELKADER—Brown & Bahr (Gravel)
ESTHERVILLE—Jewell, J. B.
FAIRFIELD—Gaines Bros.
FORT DODGE—Vincent, Harry S.
FORT MADISON—Barbour, E. C.
Cooney, H. C.
Yotter & Yachel
GRINNELL—Miles, G. L.
HARTLEY—Messer, E. B. & Son
IDA GROVE—Sauer, Martin
INDEPENDENCE—Allen & Simmons
Plane, I. C.
INDIANOLA—Farley, Geo. T. & Co.
IOWA CITY—Cochran, M. H.
Maresh Bros. (Slate & Metal)
Miller & Miller
JEFFERSON—Bofink, Chas.
Brandon, Geo. F.
KEOKUK—Buss Roofing Co.
Gelger, Aug.
Seither & Cherry Co.
Vollers, Frank
KNOXVILLE—Ashton, Henry
Little, C. F. & Son
LAKE MILLS—Styve Bros.
LE MARS—Edmunds, D. R.
Haas, C. E.
LIVERMORE—Leighton, J. W. (Metal, Rubber
Reilly, P. & Son & Gravel)
LYONS—Heupel, Wm.
Magnussen, C.
MALCOLM—Vogel, W. F.
MANCHESTER—Carhart & Nye
Whitney, H. F.
MAQUOKETA—Ringlep Hardware Co.
Trout & Matthais
MARENGO—Dean, J. M.
MARSHALLTOWN—Abbott & Son (Steel & Tin
Heinz, Edw. (Slate, Steel & Tin)
Mack, Perry L.
Painter, W. R.
MASON CITY—Currie Hardware Co.
Mica Insulating Co. (Gravel)
Miles Hardware Co.
MISSOURI VALLEY—McGavren, J. B.
MORNING SUN—Selzer Bros.
MOUNT UNION—King, H. G.
MUSCATINE—Fisch, Geo. B.
Herr, Nicholas
McQuesten & Sawyer Co.
Thompson Bros. Co.
NEW HAMPTON—Garmen & Forkenbrock
(Slate & Metal)
NEWTON—Baldwin, F. P.
Faior, H. J.
Griebeling, C.
Scharf, Chas.
Seeberger, Chas.
NORTHWOOD—Ofthus, J. K.
OELWEIN—Perry, Edson
OSAGE—Kingsbury, J. B. & Co.
Miniger, H. A.
OSKALOOSA—Iowa Mfg. Co.
OTTUMWA—Harper & McIntyre Co.
Kohl, Wm.
McCarroll Bros. (Slate & Metal)
McIntyre, W. A. & Co., Main st
Randall, F. M. & Sons
PELLA—Van Zante Bros.
PERRY—Gilbert, T. J.
Miller Bros.
RED OAK—Maloney Bros.
ROCKWELL CITY—Dixon Bros.
SAC CITY—Bauer, W. P.
SHELDON—Chase, H. F.
Messer, E. P. & Son
SIOUX CITY—Eidt, Jnlus
Falkenhainer, Geo. B.
Hamlett Son & Co.
King, Thos. A.
Orentt Co., 1012 4th
Snell, J. H. & Co.
SPENCER—Bisbee, J. L.
Lynch & Thompson
STATE CENTER—McMahon, J. L.
Schilling Bros. (Slate, Comp. & Gravel)
TOLEDO—Conant, A. H.
VILLISCA—Banes, J. S.
Jones, F. F.
VINTON—Allen & Gilchrist
Robinson, S.
WALCOTT—Wunder, A. C. L.
WAPELLO—Bettler, Chas. L. & Son

WASHINGTON—Stewart, Geo. W.
WATERLOO—Bachtell, Harry
Berkley, C. M.
Cutler Hardware Co.
Julien, Wm.
Kramer, U. G.
Schiel, Jas. A.
Waterloo Lumber Co.
WAVERLY—Curtis, S. H. & Co.
WEBSTER CITY—Mason, F. R. & Son
WEST UNION—Hoyt, Fred E. (Metal)
WINTERSET—Benge, J. E.
WOODBINE—Young & Sweet

KANSAS.

ABILENE—Hodge Bros.
ANTHONY—Costa, Jas. J.
ATCHISON—Klostemeier Bros. Hardware Co.
(Slate & Metal)
Klostemeier Bros. (Slate & Metal)
Walcott, H. C. (Slate & Metal)
Weinmann, C. F.
CHETOPA—Lyon Bros. (Asbestos, Tin & Rub-
beroid)
COFFEYVILLE—Ashby, A. F. Hardware Co.
COLUMBUS—Scovell, H. A.
CONCORDIA—Robinson & McCrary
COUNCIL GROVE—Gibson & Davidson
Snider, J. F.
EL DORADO—Pattison Bros.
Turner, C. L.
EMPORIA—Haynes Hardware Co.
Hoffer & Lepper
Knapp, O. H. P.
Peters Hardware Co.
EUREKA—Stuelpner, Max
Young, S. P.
FORT SCOTT—Brunny, John
Congdon, D. C. (Slate & Metal)
Crane, C. C. Hardware Co.
Penniman, A. O. & Son (Gravel & Tar)
GALENA—Schmidt Bros.
GARFIELD—Waymire, N. O.
GIRARD—Hertner, H. E. (Slate & Tin)
Hitch, W. S.
GLASCO—Davidson & Co. (General)
GODDARD—Linnebur, H. O.
GREENLEAF—Thinness Bros.
HIAWATHA—Amann, G. & Son
HUTCHINSON—Carr, E. L.
Nelson Bros.
INDEPENDENCE—Miheck, G. F.
Schmidt, Peter
Wentworth, F. B.
IOLA—Root, W. H.
Shannon, T. B.
JUNCTION CITY—Barker, E. E.
Muenzenmayer, J. J. & W. F.
KANSAS CITY—Bartlett, F. W. & Son, 538
Bentz, Jos. J. Minnesota av
Cashman & Beard, 438 Minn. av
Eagle Metal Works
Fults, A. W. Hardware Co., 849 Minn. av
Garnier, A., Jr.
Gille & Plank, 619 Kans. av
Hance, P. R., 753 Minn. av
Harmon & Beeler
Haskell Bros., 522 Minn. av
Hutton Bros., 11 N 10th
Joyce, P. J.
Kasther & Smith, 707 N 6th
Kurtz & Neher
Laughlin, J. C., 33 S James
Major Bros., 720 Kans. av
Muir, J. L.
Powers, J. H., 655 Kansas av
Pulver, Frank, 900 Ohio av
Reyhurn, Joseph
Strobel, Theo., 816 Osage
Timmer, Joe Hardware Co., 11 Central av
Voss, John W., 1810 N 5th
Walton, Emanuel, 706 Central
Wright, Wm. J., Jr., 743 Minnesota av
LARNED—Doerr, A. A.
Grennell, Wm.
Shady Bros.
LAWRENCE—Bennett, F. H.
Broeker, H.
Grayson & Reinisch
Munk, Edw.
O'Brien & Co.
Shaw, Alex. & Son
LEAVENWORTH—Hoffman, S. C., 713 Shawnee
Meinke, J., 507 Cherokee
Reyhurn, T. T., 5th c Cherokee
Varney Htg. & Mfg. Co. (Metal), 323 Chero-
Zeltz, G. F., 117 N 3d kee
LITTLE RIVER—Kaufman, J. D.
McPHERSON—Nelson, F. E.
Sellars, Geo. A.
Sellars, Wm. A.
Street, F. D.
MINNEAPOLIS—Agnew, S. J.

MITCHELL—Hindcs, W. P.
NEWTON—Bachman, Chas. A.
Bergh, Wm. (Slate & Metal)
NORTH TOPEKA—(See Topeka)
OBERLIN—Coit, J. B. Hardware Co.
OTTAWA—Elder Mercantile Co. (Asbestos &
Petit, J. C. Tin)
Smith, O. H.
PARSONS—Buckley Hardware Co.
Doughman & Rnst
Roush, E. D.
Steele Hardware Co. (Gravel & Comp.)
PHILLIPSBURG—Smith, Theo. & Son
PITTSBURG—Bagley, J. P.
Beasley & Miller (Slate, Metal & Gravel)
Mosteller & Clark
SALINA—Kastner, Chas. & Co.
TOPEKA—Baird, J. M., 216 W 6th av
Forbes, D. H., 616 Kansas av
Foucht, J. H., 825 Kans av
Johns, Halterman & Co.
Mood Plumbing & Heating Co.
Nussbeck, Jno. G.
Peterson, A. J., 1109 E 6th av
Seybold, G. E.
Seybold, J. H.
Sutherin, Geo. W. & Co.
Van Dorp, Lonis (Slate & Metal), 828 Kansas
WICHITA—Buckley, Fred.
Butler, H. R.
Caswell & Hartzell
Dermody Plumbing & Heating Co.
Ketzler, Eugene F.
Reitz, F. J.
Stocker, O. B.
WINFIELD—Dixon & McConn

KENTUCKY.

ASHLAND—Coburn, S.
Henderson Hardware Co.
Karnap, Henry
Phelps, F. K.
AUBURN—Satterfield, E. W.
AUGUSTA—McKibben, Bert.
BARDSTOWN—Hart, M. S.
Wallace, Claude
BELLEVUE—Schaufele, William
Wagenlander, August
BOWLING GREEN—McNamara, Jas.
McNamara, Jas.
CAMPBELLSVILLE—Buchanan, T. W. & Co.
Burress, J. H.
Hizer, Bunnell
CARLISLE—Powell, J. G.
CARROLLTON—Burckle, W. P.
CATLETTSBURG—Ely, Charles W.
Mims, A. Co.
Williamson Hardware Co.
COVINGTON—Collopy, P. J.
Covington Roofing Co.
Fischer Bros. Co.
Glaser, Wm. A. Roofing & Cornice Works
Gottschalk, F. S. Sons. (Slate & Metal)
Hesselman, Herman
Jones, J. L. Co.
Manwaring, Thos.
Rasch's, C. F. Sons (Slate & Metal)
Wachs, Wm. & Sons
Walterman, Nicholas H.
CYNTHIANA—Colegrove & Reid
Ingles, W. H.
DANVILLE—Chestnut-Salter Hardware Co.
Durham & Scott
DAYTON—Hermann, Martin (Slate & Metal)
Poos, John
ELIZABETHTOWN—Wintersmith's, R. L. Son
EMINENCE—Koenigstein, J. J. E.
FLEMINGSBURG—Hammer, H. O.
FRANKFORT—Breslan, J. J.
Miller, George W.
FULTON—Huddleston, A. & Co.
Nolan, I. R.
GLASGOW—Satterfield, P. E. & Co.
Shader, T. M.
HARRODSBURG—Adams, Jno. H.
Reed, W. H.
HENDERSON—Harding & Feix
Wallace, J. H. (Slate & Tin)
HOPKINSVILLE—Adwell & Stowe
Ballard, H. C.
Forbes Mfg. Co. (Slate, Gravel & Metal)
McShane, Hugh
Young, John (Slate & Metal)
LA GRANGE—Fischer & Son
LEBANON—Clements & Ahell
LEXINGTON—Bitterman, Edw. & Son, 80 W
Main (Slate & Metal)
Cholvin, J. C. (near)
Payne, Geo. F.
Sharp, Geo. B.
Smith, Watkins & Co.

Trowbridge, Thomas A.
Van Deren Hdw. Co.
White, H. A., 47 W Main
Woodruff & Co.

LOUISVILLE—Abraham, M. Roofing Co. (Felt, Asphalt, etc.), 101 W B'way
Bates, J. W. Roofing Co. (Felt & Gravel), 819 Main

Birkel, Fred, 2203 W Market
Blacker, Eva W., 314 E Jeff
Bohlson, Henry, 2121 Preston
Bohn, George P., 205 E Jefferson
Bott, Henry J., 1017 Christy av
Conen, H. J. (Metal), 1010 7th
Conn, Geo., 2824 Cleveland av
Daringer, Hy., 716 E Green
Ellis, G. D., 1223 21st
Everett, J. Guy (Metal & Slate), 1123 W Market
Fink, P. & Sons, 315 1st
Frommiller, John, 1612 E Main
Garrett, B. F., 723 10th
Geher, Fischer & Co., 323 2nd
Heartick, E. C. (Metal), 1308 Preston
Hebner, Fred, 911 E Gay
Horn, Joseph F., 904 E Madison
Hurvitz, Harris, 349 E Jefferson
Imperial Wire Iron & Roofing Co. (Asphalt, Pitch, Felt & Gravel), 221 W Market
Kaufer, Joseph, 416 33d
Keller, Martin, 2304 W Broadway
Kirch, Henry A., 1203 Mulberry
Kraus, Hy., 732 Shelby
Krauth, H. P. & Son, 1301 Baxter av
Lindenmaier, J. A., 1234 18th
Louisville Cornice Roofing & Heating Co. (Tin & Slate), 226 10th

Mayfield, S. A., 753 E Main
Miller, L. C., 804 26th
Miller, P. & Son (Metal), 917 E B'way
Nalty, S. J., 1849 Portland av
National Roofing & Supply Co. (Asphalt, Pitch, etc.), 140 W Main

Obrecht, Wm. F., 3519 4th
Paine Bros.
Paine, C. H. (Metal), 323 West P
Paine, W. H. & Son, 1453 18th
Pflster, Leo, 2506 (a) W Market
Ramser, Chas., 603 W B'way
Ramser, Edw. (Metal), 3116 4th
Ramser's, Geo. Sons, 1027 3d
Ransdell & Jutz, 834 E Market
Reck, John, 1626 W Main
Roth, Alfred N., 1403 Story av
Schott, Charles W., 755 E Green
Schreick, Jacob & Co., 1406 Preston
Sikking, J. E., 2813 Dumesull
Sikking, T. A., 234 W Green
Smith-Porter Roofing Co.
Southern Roofing & Paving Co., 1006 W Main
Staeuble, C., 1106 Frankfort av
Standard Roofing Co., 1126 Preston
Sullivan, Owen M., 1912 12th
Troxell, S. F. Co. (Felt, etc.), 108 3d
Wagner, H. J., 1600 7th
Wagner, Joseph F. & Sons (Slate & Metal),
Wesbecker, Jos., 714 12th
Wobbe, F. H., 741 E Jefferson
Wulff, W. O. & Co. (Slate, Tile & Metal),
Zeller, M., 1611 Clay 603 E Jefferson

LUDLOW—Buchanan, David S.

MADISONVILLE—Bonrland & Moore
Harned, R. L.

MAYSVILLE—Leonard & Lally
McClenahan & Shea
Power, W. F.

NEWPORT—Ehinger, Jos.
Letcher, Henry
Listerman, Jno.
Ochs, George J.
Reden, Henry
Reder, Henry
Rust, L. & Son
Schweikert, J. N.
Wagenlander, F. & Co.

OWENSBORO—Frederick, J. O. (Tin & Slate)
Guenther, W. A. & Sons (Tin & Slate)
Holbrook, R. R.
Killian, P. F.

PADUCAH—Clayton, T. H.
Davis, G. R. & Bro. (Slate, Granite & Fowler-Wolfe Sheet Metal Works Metal)
Hank Bros.
Maret, John C. (Slate & Tin)
Miller, C. J.
Scott, W. D.

PARIS—Jannary & Connell
Lowry & Talbott

PRINCETON—Maret, H. T.
Ratcliff, Charles
Rucker & Edwards

PROVIDENCE—Benjamin, J. B.

RICHMOND—Taylor & Oldham

SHELBYVILLE—Casey, J. M.
Owen & Moore

LOUISIANA.

BATON ROUGE—Gessell, Frank
Williams, M. J.

DONALDSONVILLE—Scharff, H. & Son

HOUMA—Babin, Teles

JEANERETTE—Jeanerette Hardware Co.

JENNINGS—Smith, J. M.

LAFAYETTE—Graser Bros.

LAKE CHARLES—Baird, W. E.
Braden, C. M.
Murray-Brooks Hardware Co.

LAKE PROVIDENCE—Fonsse, N.

MONROE—Moore, J. L.

MORGAN CITY—Boutterrie, Vic.
Shannon Hardware Co.

NAPOLEONVILLE—Blanchard Bros.

NEW IBERIA—Ribbeck Mfg. Co.

NEW ORLEANS—American Sheet Metal Works,
S Carrollton av & Edinburg

Anderson, Alfred, 713 Carondelet
Annan, A. Hill (Slate), 510 Carondelet
Appel, John, 935 Julia
Becker, J. Frederick, 2027 Magazine
Blanke's, Henry H. Sons, 2353 Tchoupitoulas
Blessey, F. H., 4701 Magazine
Brady, Dennis, 1763 St. Charles av
Dendinger, Jacob, 352 St. Joseph
Downey, Richard J. Co. (Slate), 509 St. Charles

Frederick, Hugo H., 929 Tchoupitoulas
Gerber, Jacob, 1623 Dryades
Gulf Galvanizing & Metal Works, 1229 Carondelet

Hamburger, John, 3143 Danphin
Harry Bros. Co., S Carrollton av & Edinburg
Hanbert, Philip, 3820 Dauphine
Heiny, Frank, 904 1st
Holzer, Randolph G., 317 Burgundy
Ibos Bros., 522 Chartres
Jones, J. Wilton, 612 Bienville
Kelly, James, 728 Magazine
Kleinschmidt, Geo., 3531 Baronne
Lemley, David (Copper & Metal), 355 Baronne

Levy, Emile D. Co., 1525 Dryades
Louisiana Boiler & Sheet Iron Works, 2344 Enphrosine

Louisiana Roofing Co., 407 Tchoupitoulas
Lubbert, John, 115 Magazine
Mesa & Weltham, 1744 Erato
Munchow, Emile (Slate), 800 Louisiana av
National Blow Pipe & Mfg. Co., 632 Tchoupitoulas

Nelson, A. J. Mfg. Co. (Ltd.), Howard av c Dryades

New Orleans Roofing & Metal Works
(Metal, Asphalt & Gravel), 936 Lafayette

Redmond, B. V., 340 Chartres
Reppel, Chas., 1060 S Rampart
St. Gernes, Bertrand, 730 Tonro
Steffens, L. A., 474 Josephine
Troy, Gns, 1123 Josephine
Twickler, Wm., 4530 Magazine
Whitney Supply Co. (Comp.), 200 S Peters
Zansler, Edw. L., 325 Decatur

SHREVEPORT—Adams & Son (Tin & Slate)
Bain, H. H.
Wortman, E. (Tin & Slate)

MAINE.

ANDOVER—Smith, Fred. S.

AUBURN—Elms, James
Haskell, L. W. & Co.

AUGUSTA—Cogan, J. H. & Co.
Malcolm & Dyer
Taber & Reid

BANGOR—Clement, Carter & Co.
Gould, J. P.
Leighton Plumbing & Heating Co.
Reilly, R. J. (Slate & Metal)
Semple, S. T.

BAR HARBOR—Green & Reynolds Co.
Lawrence, A. E. Co.

BATH—Barton, G. H. W.
Rogers, C. W.
Watson, W. H.
Winslow, J. A. & Son

BELFAST—Mitchell & Trussell
Mitchell & Trussell
Stickney, J. B.
Wright, C. L.

BIDDEFORD—Anthoine, George A.
Anthoine, Geo. A.
Lowell, John B.

BINGHAM—Lander, J. J. & Co.

BLUE HILL—Stanley, I. E.

BOOTH BAY HARBOR—Holton, W. T.
Lake, J. H.

BREWER—Woodbury, S. H. & Co.

BROOKS—Lane, Otis W.

BRUNSWICK—Furbish, E. L.
Ridley, Geo. E.

BUCKSPORT—Beazley, E. L.

CALAIS—Huson, J. A. (Gravel)

CAMDEN—Bowers, J. W. Co.

CARIBOU—Briggs, Samuel E. & Son

CASTINE—Stover, F. N.

DAMARISCOTTA—Keene, W. W. & Son

DEXTER—Crockett & Tilson

DOVER—Lander, J. Q.

EASTPORT—Martin, E. S. & Son
Spates, W. T.

ELLSWORTH—Morrison, Joy & Co.

FAIRFIELD—Totman, A. H.

FARMINGTON—McLeary, Wilfred

FORT KENT—Dugal, A. L.

FREEPORT—Brewster, J. A.

FRYEBURG—Page, Seth A. & Co.

GARDINER—Kelley & Wheeler

GORHAM—Brown Bros.

GUILFORD—Page, Spearing & Co.

HALLOWELL—Church, John W. & Son

HOULTON—Smith Bros.

ISLAND FALLS—Berry, C. M.

KENNEBUNK—Lunge, Harry E.

KENNEBUNKPORT—Wells, Alfred M.

KEZAR FALLS—Mason, Geo.

LEWISTON—Chas. J. H. Co., 191 Lisbon
Goss, A. L. & E. F.
Gnillmet Co.

Howard, A. A. (Slate & Gravel), 36 Spring
Pratt, T. L., 183 Lisbon
Stetson, J. H. Co. (Slate & Metal), 65 Lisbon

LIBERTY—Knowlton, J. L.

LISBON FALLS—Bailey, Charles E.

LUBEC—Trecartin Bros.

MACHIAS—Bowker, F. W.
Crane Bros.

MECHANIC FALLS—Hawkes & Whitney

MILLBRIDGE—Burnham, F. W.
Shaw, William

MOUNT VERNON—Fellows, Chas. O.

NEWPORT—Deering, R. A. & Son

NORWAY—Crooker, James O.

PITTSFIELD—Getchell, T. E.
Lancy, T. G. & Co.

OLD TOWN—Godfrey, F. N.

ORONO—Park, F. C.

PORTLAND—Alexander, A. R., 22 Monum't sq
Bourne, M. B. & Son (Slate), 33 Temple

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Hersey, Elias Roofing Co. (Felt Composition & Gravel), 22 Monum't sq

Hollivan & Parker (Gravel & Asphalt), 56 Cross

Hutchinson & Cain (Metal), 438½ Fore

McBrady, J. E. & Son (Metal), 229 Federal

Nash, F. & C. E. Co., 386 Fore

Nash, O. M. & D. W., 6 Exchange

Scott, Wm. H. Co. (Metal), 29 Union

William, C. G. B.

RICHMOND—Haynes, J. & Sons
Rogers Bros.

ROCKPORT—Libby, A. & Son

SACO—Lord, A. T. & Son

SANFORD—Huff, Geo., W Main

SKOWHEGAN—Ross, C. A.
Stewart Hardware & Plumbing Co.
Wood, F. A.

SOUTH BERWICK—McIntire, D. E.

SOUTH PARIS—Richardson, J. P.

SOUTH PORTLAND STATION—Tilton, C. A. & Co.

SPRINGVALE—Makin, J. H.

THOMASTON—Webber, M. E.

WALDOBORO—Cutlis, C. H.
Richards Bros.

WARREN—Jameson, E. E.

WATERVILLE—Arnold, W. B. & Co.
Hanson, Webber & Dunham

WESTBROOK—Knight Bros. & Co.

WOODFORDS STATION—Crockett & Gordon
Cutts & Boyman
Madsen & Allen Co.
Wheeler, F. E.

MARYLAND.

ANNAPOLIS—Carr, W. H.
Granite Plastic, Slate & Slag Roofing Co.
(Plastic Slate, Metal, Slate Tile, etc.), 882
Wilson, C. A. L. Ryan

BALTIMORE—Appler, Henry, & Sons, 52
S. Carrollton av

Armstrong, E. A., 18 N. 1st, E.

Baltimore Roofing & Coal Tar Co. (Asphalt, Gravel & Comp.), 1215 Lead-
enhall

Banks, W. H. & Sons, 405 Drnid Hill av

Baughner, Joshua W., York rd, opp. Homeland av

Beever, John R., 643 Ensor

Bennett Bros., 523 N. Fremont av
 Bell, Joseph T., 2001 Edmondson av
 Berry, Bernard H., 244 Pearl
 Betzel, W. F., 427 N. High
 Bien, John, 718 S. Ann
 Bley, J. H., 1522 N. Carey
 Blden, James (Slate, Slag, Metal, Comp., etc.), Pratt & Parkin
 Bracken, J. F., 124 Richmond
 Brown, G. W., 1017 Greenmount av
 Burrows & Broderick, 1539 Maryland av
 Carter, H. G., 1909 Folk av
 Chesapeake Plbg. & Tin Co., 1201 Hau-Coath, Wm., Jr., 1636 E. Preston
 Clarke, Wm. Wirt, & Son, 546 Monument
 Clifton Cornice & Skylight Works, 427 N. High
 Cotton, Wm. E., 1600 Harford av
 Crandell, R. A., 1112 W. Baltimore
 Crout, W. F., 1121 Patterson av
 Cunzeman, John, 1723 Bank
 Dalley, Chas. J., 1121 W. Baltimore
 Dawes, J. S., & Co. (Slag, Gravel & Slate), 782 W. Pratt
 Deal & Gorsuch, 1731 Harford av
 Denker, Herman, 2011 Fkd. av
 Dorries, C. H., 2413 Orleans
 Eberle, J. A., & Son, 860 Linden av
 Ebert, George, 101 N. Patuxent
 Eckhoff, John P., 3 N. Exeter
 Eckman, Harry, Frederick & Payson
 Ellis, Luke J., 218 S. Sharp
 Engleman, Chas. J., 935 W. Fayette
 Eurich, Henry, 2302 Boston
 Eurich, Wm., 2208 Boston
 Feldstein, Israel, 905 E. Lombard
 Fingles, James A., 726 Light
 Fingles, Wm. A., 1523 Maryland av
 Flitzberger, T. Frederick, 213 Park av
 Fleming, Lewis, 2334 Pa. av
 Foy, Edw. L., & Co. (Asphalt, Gravel, Comp. & Felt, Slate & Tile), 16 W. Camden
 Frederick, M. J., & Bro., 317 Park av
 Fricke, John H., 205 S. Bond
 Gall, H. W., 580 N. Gay
 Garthe, Wm., Co. (Slate, Metal & Tile), 1527 Maryland av
 Gelger, George, 2053 Bank
 Genasco Roofing Co., Bayard & Warner
 George, Conrad, 924 S. Sharp
 Gibson, S. S., 601 N. Payson

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Govanstown Htg. & Plbg. Co., Govans
 Grasser, John G., 316 S. Eden
 Guetier, Geo., Belvidere av., nr. Falls rd
 Gullfooy, James C., 16 W. 20th, N.
 Guarantee Roof & Metal Pt. Co., 307 North
 Haas, Alex. D., 508 Burgundy al.
 Hagerty, Patrick J., 1618 Thames
 Hartman, A. N. (Slate & Tile), 207 W. Saratoga

Haupt, John M., 205 N. Gilmor
 Hetzel, John G., & Son (Metal), 225 N. Hicks, C. A., 911 3d av, N. Howard
 Hill, Harry W., 1812 Fkd. av
 Hoffman, John W., 673 W. Fayette
 Irwin, John, 1144 York rd
 Ittner, Jacob F., 1627 Fkd. av
 Hopper, W. H., 1817 Harford av
 Kaestner, E. A., 516 N. Calvert
 Kahlein, Fred'k., 1121 Carroll S
 Kaiser, E. W., & Sons, 1408 Orleans
 Kaiser, Geo. J., 206 Fkd. av, ext
 Keiner, John, 410 S. Bond
 Klintop & Brennells, 113 Clay
 Kirschenhofer, Louis, 1032 N. Gay
 Klrwan, Wm. T. A., 10 W. Fort av
 Klein's, A., Sons, 1114 Linden av
 Kohlhepp, A., 404 N. Howard
 Kolscher, J. F., 740 W. Saratoga
 Kraus, C. C., & Co., 1337 W. Lombard
 Kraus, H. M., 2338 Pa. av
 Kreh, John H., 130 Amity
 Leamann, Fred'k C., 1026 Hillen
 Leffert, J. Geo., 215 W. Saratoga
 Lenderking, Louis, 816 Ridgely
 Lenderking, Phillip H., Jr., Dillon, cor. Patuxent

Letmate, J. Fred., & Sons, 728 Penna. av
 Levy, L., 1019 E. Lombard
 Lloyd, Wm. H., 1405 Pessman
 Lock, Daniel A., 620 W. Cross
 Loomis, F. L., 719 Hanover
 Lowrey, J. F., 826½ W. Baltimore
 Maryland Roofing Mfg. Co. (Slag, etc.), 2101 Boston

Markolf, Geo. H., 705 Gordon av
 Miller, J. F., 1511 W. Baltimore
 Miller, Wm. J. S., 856 W. North av
 Miller, W. H., 614 W. Barre
 Mills, E., Jr., & Co., 27 W. Biddle
 Mixer, J. S., 1004 5th av, N
 Moss, Morris L., 38 S. Eden
 Mueller, Michael, 2601 E. Fairm't av
 Mullenberg, Chas. H., 420 W. Lanvale
 Muillken, B. F., 1017 Hillen
 Nagel & Briers, 201 Hill
 Neighoff, Francis M., 113 Stafford
 Noble, H., & Co. (Asphalt, Gravel, etc.), 623 S. Caroline
 Northwestern Cornice Wks., 1506 Pa. av
 Ohm, Wm., 115 N. Greene
 Parsons, N. E., & Son, 910 3d av, N.
 Peters, Joseph, 3318 E. Baltimore
 Plumshoff, H. G., & Co., 340 N. Calvert
 Popple, Harry F., & Co., 1822 Harford av
PRUDEN, C. D. CO. (Sheet Metal Works). Warner, Bayard & Dock. (See adv. index, end of book)

Renna, Chas. C., 883 W. Franklin
 Ritterhoff Ernest, 1157 Balto.
 Rode, F. H., 1929 E. Fayette
 Rubber & Asbestos Roof Painting Co., 544 N. Calvert

Russell, G. W., 238 S. Strickler
 St. Paul Plbg. & Htg. Co., 2439 St. Paul
 Sauerland, A. P., 1101 Pa. av.
 Schneider, F., 1740 Canton av
 Schneider, H., 2007 Clifton av
 Schoenberger, Henry, 1304 N. Gay
 Schultz, E. W., & Sons, Cent. av. & Sellman, J. H., 2224 York rd Jackson
 Sellman, Niles P., 1416 Pa. av
 Share, Albert, 1429 E. Eager
 Simon, Adam, & Son, 1310 E. Eager
 Sinclair, James M., 1001 York rd
 Sinclair, W. W., 1042 York rd
 Sindall, John P., 2706 Elliott
 Smick, Hy. (Slate & Tile), 1846 N. Wolfe
 Thaler, George J., 802 N. Gay
 Todd, Geo., 1314 N. Central av
 Trotter Bros., 305 E. Preston
 Vaile & Young, 216 N. Calvert
 Wachsmuth, Chas., 935 S. Charles
 Walker, William E., 1307 Edmondson
 Ward, Wilbur F., 20 W. Pratt
 Weems & Thoms, 1319 Highland av
 White, Robt. W., & Son, 1328 Pa. av
 Wiegel, G. W. C., 1500 Penna. av
 Wilhelm, J. Frank, 748 Pa. av
 Wilhelm, Wm. H., 633 W. North av
 Wilkinson, O. A., 929 Bolton
 Winchester, J. H., 826 N. Gay
 Zeller, W. F. & Co., 1119 Denver
 Zimmers, A. M., 1808 Frederick av

CAMBRIDGE—Anthony, J. R. & Co.
 CATONSVILLE—Fisher, George
 Wilson, Frank

BEL AIR—Brown, Charles C.
 Heuer, Wm. W.

COCKEYSVILLE—Kraus, L. P.
 CUMBERLAND—Gessner, Geo.

Habig & Stegmaler
 Langer, William
 Morehead's, Wm. Sons
 Rizer, Charles L.
 Thumel, Theodore
 Wolz, J. L.
 Zilch, J. G.

EASTON—Harnett, W. J.

ELKTON—Alexander & Son (Tin, iron & Felt)
 Boulden, H. R.

ELLICOTT CITY—Fisher, C. C.
 Mcads, Jas. F.

EMMETTSBURG—Adelsberger, J. M. & Son
 Hays, J. T. & Sons

FREDERICK—Fox, L. M.

FROSTBURG—White, Robert, Jr.
 Wolf & Sons

HAGERSTOWN—Boward, Louis D.
 Carlisle, R. B.

Danzer Metal Works
 Hoch, H. K.

Miller, J. Z.
 Saum, E. K.

Wagner, Harry R.
 HAVRE DE GRACE—Case, N. B.

Murphy, John T.
 Sanders, W. M.

LAURAVILLE—Buchwald, Paul R.
 PORT DEPOSIT—Stephenson & Reynolds

REISTERTOWN—Brown, J. V.
 Gormley, J. W. & Son

ROCKVILLE—Vlett, Henry

SALISBURY—Dorman & Smyth Hdw. Co.
 Gunby, L. W. Co.

UNION BRIDGE—Hollenberger, John M.

WESTMINSTER—Gilbert & Gehr

Grumbine, W. H.
 Westminster Hdw. Co.

WILLIAMSPORT—Herbert, Sarah E. (Mrs. Z. Reichter, E. E. M.)

MASSACHUSETTS.

ADAMS—Weston, L. A.

AMESBURY—Brown, Leonard
 Mulligan, Patrick J.

ANDOVER—Welsh, Wm. H. & Co.
 ARLINGTON—Shattuck, R. W. & Co.

ASHBURNHAM—Marble & Gilson
 ASHLAND—Enslin, Franklin & Co.

ATHOL—Fisher, W. C. (Slate)
 Lee, Samuel, Athol Centre

Smith, C. E., Athol Centre
 Ward, A. T.

ATHOL CENTER—Lee, Samuel
 Smith, C. H.

ATTLEBORO—Brownell Hardware Co.
 Gay, Irving M.

Jones, Richard H.
 Perry, N. & Co.

AUBURNDALE—Gammons, R. F.
 Walker, E. A.

AYER—Fillebrown, A. A. & Co.
 BEVERLY—Hinkley, George F.

BLACKSTONE—Copeland, C. A.
 BOSTON—Acme Roofing & Repairing Co., 15 School

Ahern, James & Son, 135 Hyde Park av
 Albee, C. W., 6 Payson av, Dor.
 Alger, C. W. Co., 189 Fort Hill sq
 Anderson, Clas. & Co., 41 Way
 Asphalt Roof Coating Co., 127 Federal
 Badger, E. B. & Son Co. (Copper, Gravel & Tin), 67 Pitts

Banash, Hy. A., 82 Roxbury
 Bannen, Jas. P., 81 Joy
 Barnard, Geo. A., 166 Devonshire
 Bates, W. N., Elastic Paint & Roofing Co., 28 Central

Belo, Max, 74 Brighton
 Berry, Wm. B. & Co., 79 North
 Blunney, John & Son, 326 Atlantic av
 Blacklow, N., & Son, 8 Friend
 Block, Jacob, 93 Prince
 Boston Furnace Co., 6 Portland
 Boston Roofing Co. (Slate, Metal, Tar & Gravel), 21 Bromfield

Bralnard, John C., 930 Tremont
 Burgess, Robt. A., 34 Dakota rd, Dor.
 Buchanan, Geo. J., 85 Commercial wf
 Carlin, Wm. J., 18 Cambria
 Carey, Arthur J., 23 Burrell, Rox.
 Chandler, H. B. & Son, 9 Cambridge

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Cleaves, Stephen A., 631 Wash'n, Dor.
 Connor, John P., 55 Sudbury
 Cote & Cazeault, 35 Wareham
 Crowley, A. F., 292 Main, Chsn.
 Daly, T. F., 389 Tremont
 Desmond, Daniel J., 86 Endicott
 Devine, C. (Slate & Metal), 18 Pitts
 Dinan & Co., 83 Abblon
 Drennan, C. M., & Son, 67 Dundee
 Driscoll, James F., 213 W. 9th
 Dugan, James F., 103 Clifton, Rox.
 Eagles, L. A., 600 Dudley
 Ely, J. B., & Co. (Slate, Metal & Gravel), 74 North
 Evans, A. B. & Co. (Slate, Gravel & Metal), 19 River

Evans, James & Co., 22 Emerson
 Farquhar's, John Sons (Inc.) (Slate, Copper, Metal & Gravel), 22 East

Feeney, John, 15 N. Grove
 Feneno, B. & Co., 1480 Tremont
 Felstead, Wm., 20 Blackstone
 Finegan & Lumbard (Asphalt, Gravel & Finn, D. E., 78 Revere Slag), 89 Pearl
 Flanagan, D. L., 490 Harrison av
 Forrest, Alfred W., 464 Harrison av
 Freundlich, Max, 2 Georgiana
 Gallagher, D. F., & Co. (Metal), 37 Commercial

Gettins, John P., 815 Tremont
 Gillespie, J. Y., 708 Columbia rd

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Griffiths, Wm. J., 14 Brattle sq
 Hackett, Wm. J., 57 Long wf
 Harding, John W., 412 Main

- Harrigan, J. & Son (Slate, Metal, etc.), 111 Liverpool
- Harrington, Eben, 278 Bennington, E. B.
- Hawley, John G., 641 E. 4th
- Hayden, Francis, 490 Harrison av
- Hayden, Wm. O. & Co., 254 Gold, S. B.
- Henderson, A. W., 636 Warren, Rox.
- Hilliard Bros., 387 Atlantic av
- Hind, Thos. J. (Slate, Asphalt, Gravel, Tile & Metal), 45 Commercial Wharf
- Hohbs, H. S. & Son, 112 Harrison av
- Hoffman, E. S., 642 Washington, Dor.
- Houghton, J. F. & Son, 114 Green, J. P.
- Houlihan, John J. (Slate, Metal & Gravel), 7 Walden, Rox.
- Huh Roofing Co., 233 Blue Hill av
- Hub Sheet Iron Works, 54 Broad
- Improved Plastic Slate Roofing Co., Tremont
- Kesselhuth & Co., 1 Eliot sq, Rox. hldg
- Knight, Wm. H. (Slate, Metal, Tar & Gravel), 83 W. Concord
- Krogman, Frank W., 23 Exchange
- L. & T. Plastic Slate Roofing Co., 161 Devonshire
- Lantz, Wm. H. & Co., 29 Central
- Leighton, Geo. A., 147 Saratoga, S. B.
- Loehr, A. H., 20 Kneeland
- Locke, L. & Co., 37 Prentiss
- Lutz, C. A., Jr., 9 Centre, Rox.
- McGinnis, E. C. (Slate, Tin & Gravel), 86
- McGrath, W. W., 130 Border Chardon
- McKenzie & Gillespie, 22 N Center
- MacDonald, Alexander, 69 W. Dedham
- MacDonald, Joseph A., 558A Shawmut av
- Madden, John J., 1158 Columbus av
- Magulre, W. J. (Slate & Metal), 544 Wash-
ington, Br.
- Mansfield, Christopher J., 1010 Tremont
- Martin, Jno. & Co., 63 Gates, S. B.
- Martin, Wm., 130 G, S. B.
- Maxey, W. H., 638 Wash., Dor.
- Mealey, High, 1492 Columbia rd
- Miers, Chas. J. & Son (Slate, Metal & Gravel), 142 Cambridge, Chsn.
- Miller, S. P., 48 B'way extension
- Moore, Richard, (Slate, Tin, Copper & Composition), 4 Province st
- Mount Pleasant Roofing Co., 20 Blue Hill av
- Mullen, John H., 16 Southampton, Rox.
- Murphy, J. F. & Co., 31 Fulton
- Murphy, M. F., 55 Sudbury
- Murphy & Co., 139 Kingston
- Murfeldt, W. A. Co. (Comp. Slate & Metal), 161 Devonshire
- National Roofing & Roof Repairing Co. (Slate, Tin & Gravel), 14 Brattle sq
- New England Felt Roofing Works (Felt.), 18 P. O. sq
- O'Brien, D. A. & Son, 166 Devonshire
- O'Connell, S., 111 Leverett
- Ormsby, T. L., 167 W 5th
- Panghorn, Alfred H., 9 Border, E. B.
- Penshorn, Geo. (Slate, Metal, Gravel & Composition), 209 Washington
- Pempel, Fred, 1462 Columbus
- Penshorne, Geo. (Slate, Metal, Gravel & Comp.), 209 Wash'n
- Richards, Geo. H., 457 Dudley
- Riley's, H. Sons (Slate & Metal), 97 W Concord
- Riley, James E. & Co. (Slate & Metal), 95
- Rodday, Sam'l, 1130 Dorchester av Milk
- Smith, James C. Co. (Slate & Metal), 406
- Smith, John A., 180 Border Albany
- Sondermau, H. & Son (Slate, Tin & Gravel), 27 Marcella
- So. Boston Roofing Co. (Slate, Metal & Comp.), 490 B'way
- Spaithman Cement Roofing Co., 53 State
- Sullivan, P., 12 Norfolk av
- Union Cornice Co. (Slate, Metal, Tar & Gravel), 7 Appleton
- Warren Bros. Co. (Asphalt, Tar, Tile & Slate), 93 Federal
- Weber, F. I., 573 Dorchester av
- Wedgewood, Aaron, 122 Boylston, J. P.
- Wells, J. L., 306 Main
- Weinberger Bros., 17 Lewis, E. B.
- Werner, Sam, 47 Dnddee
- Williams & Daly (Slate & Metal), 180 Dndley
- Young, D. A., Co., 229 Milk
- BRAINTREE**—Bates, F. A.
- BRIDGEWATER**—Fairbanks, J. H. Co.
Rogers, J. B.
Shaw, C. M.
- BROCKTON**—Alden Sheet Metal & Plbg. Co.
Brown & Morrow, 240 Main
Carlson Bros.
Carr, J. E. & Co., 1036 Main
Dahlborg, C. F. (Metal & Gravel), 973 Main
Hickman, Jno. (Slate, Metal & Gravel), 46
McCahe, A. F. Ford
- Masfield, Edw. A. (Gravel & Slate), 19
Gardner av
- Waterman, C. H., 753 N Main
- BROOKLINE**—Kenrick Bros.
Mackey, Jas. P.
Murray, H. J. & Co. (Slate, Metal & Gra-
Palne Bros. vel), St. Andrew's bldg
- CAMBRIDGE**—Blevins, John J. (Slate, Metal,
Granite, etc.), 696 Mass. av
Brock Bros., 1372 Mass. av
Douglass, Geo. (Slate, Metal & Gravel),
266 Prospect
Eagle Cornice & Skylight Works, Decatur c
Brookline
Gordon, Wm. (Slate, Metal & Gravel), 19
Moore & Hadley, 8 Brattle State
Peak, Howard F. (Slate, Metal & Gravel),
1440 Mass. av
Scannel, D. A. (Slate, Metal & Gravel),
352 Cambridge
- CAMPELLO**—(See Brockton)
- CHELSEA**—Howe, Jno., 672 B'way
Miller, Emil
O'Brien, D. A. & Son, 33 Walnut
Woodmau, L. H., 22½ Bloomingdale
- CHICOPEE**—Benn, Gabriel & Son, 45 Cabot
Ludden, C. A.
- CHICOPEE FALLS**—Donnelly, Wm. E.
Enright, P. J.
- CLINTON**—O'Toole Bros.
- COHASSET**—Bates, Allen O. (Est. of)
- COTTAGE CITY**—Chirgevin, T. H.
- Mayhew, John L.
- DALTON**—Ford & Parker
Messinger, H. R.
- DANVERS**—Caskin & O'Connell
Ropes, J. E. & Co.
- DEDHAM**—Keelan, M. & Son
Russell's, Charles Sons (Est. of)
- EAST HAMPTON**—Newkirk, F. P.
Owen, B. P.
- EVERETT**—White, A. W.
- FAIRHAVEN**—Forrest, E. W.
- FALL RIVER**—Archard, R. J. (Gravel), 60
Murray
- Cash, Henry N. (Felt, Comp., Gravel & Asphalt), 512 Slade
- Whilston, Chas. H. (Comp. & Gravel), 171
Whilston, Fred'k D. Pleasant
- Wilcox, D. T., Jr., 46 Granite
- Wordell, A. B., 339 Fountain
- FALMOUTH**—Falmouth Plumbing Co.
Lawrence, Austin F.
- FITCHBURG**—Edwards, Wm. Slate Co. (Slate
& Metal), 83 Water
- Normandin Bros., 200 Cleghorn
- Patch, Lyman Co., 390 Main
- Porter, A. S. & Co.
- FLORENCE**—Addis, E. O.
- FOXBORO**—Swift, E. B., 31 Market
- FRAMINGHAM**—Connor Bros.
- FRANKLIN**—Hosie, G. W. & Son
- GARDNER**—Cote, Edward, Jr. (Slate, Tin & Gravel)
Curtis, H. O.
- GLOBE VILLAGE**—Lewis, W. C.
- GLOUCESTER**—Hale, J. P. & Co.
Smith L. E. Co., 221 Main
- GRAFTON**—Montague, E. J.
Smith, S. F. & Son
- GREAT BARRINGTON**—McManus, James
Turner, F. H. & Co.
- GREENFIELD**—Kilburn, Edward T. (Steel
Roofing)
Ryan Bros. (Slate)
- GROTON**—Blood, F. M. & Co.
Blood, Geo. H. & Co.
- HANOVER**—Magoun, H. N. & Co.
- HAVERHILL**—Sargent, Ada F. (Slate, Gravel
& Tin), 10 River
Wilson, Jas. (Slate, Gravel & Tin), 30
Pleasant
- HIGHLANDVILLE**—Thomas, Hy.
- HOLLISTON**—Adams & Co.
- HOLYOKE**—Edwards, T. & Co., 530 Hlgh
Farrell, Jas. E. (Comp.), 131 Maple
Friedrich, E. Hugo (Slate, Metal, Gravel & Tile), 148 Main
- Ghson, Thomas J. & Co. (Gravel & Plastic
Slate), 32 Main
- Grant, John H. & Son (Comp.), 80 Nonotuck
- Lyman, Chas. P., 139 Main
- Sullivan & Carmody, 171 High
- HUDSON**—Glines, G. Fred (Metal)
- HYANNIS**—Bradford, Myron G.
- HYDE PARK**—Barrett, Edward L.
Chisholm, Collin O.
Johnson, A. J. (Copper, Tin, Slate & Gravel)
Shepherd, Peter (Slate, Tin & Gravel)
- IPSWICH**—Dunnella, John M.
Goodhue, John W.
Plonff, Aug. H.
- KINGSTON**—Clark, George H.
Myrick, Wm. H.
- LAWRENCE**—Bingham, John F. Mfg. Co., 25
B'way
Horn, Geo. W. (Slate & Metal), 613 Common
- Slater, John Co., 453 Essex
- Smith & Bingham, 10 Sargent
- Wood, Elijah
- Wurzacher, John & Co., 21 Jackson
- LEE**—Hayes, M. H. (Slate, etc.)
Howland, W. O.
Smith & Hawks
- LENOX**—Bull, W. B.
O'Brien, Richard
- LEOMINSTER**—Burrage, H. E. Co.
Draffin, Alex. (Slate, Gravel, etc.)
Potter, F. S. (Slate & Gravel)
Smith Bros.
- LOWELL**—Cushing, Daniel & Co. (Slate & Metal), 398 Middlesex
Rock
Douglas, J. L. & Co. (Slate & Metal), 147
Fitzpatrick, H. J., 179 Lake View av
Henault, Jos. (Slate & Metal), 126 Cheever
McEwan, Curtis
Mack, Wm. A. & Co. (Slate & Metal), 25
Shattuck
Mooney, Jas. F. (Slate), 726 Middlesex
Ryan, Jeremiah, 102 Lake View av
Taylor Roofing Co. (Gravel, etc.), 140
Humphrey
Weaver, S. H. & Son (Gravel), Glidden
Wildner, H. H. & Co., 29 Market bldg
- LYNN**—Annable, E. S.
Bee, John D. & Sons (Slate, Metal & Gravel),
Bertram & Fox, 45 State 45 Sea
Hughes, Jas. R., 757 Western av
Pool, H. F., 5 Market
Quinn, Martin L. & Co. (Gravel, Slate & Metal), 21 State
- MALDEN**—Libby, L. L. (Gravel & Tar), 23
Commercial
- MANCHESTER**—Beaton, D. T.
Carter, J. W.
- MANSFIELD**—Fuller, W. C. Co.
- MARBLEHEAD**—Donovan & Co.
- MARION**—Coggeshall, Frank B.
- MARLBORO**—Hanley, J. J.
Hill, Wm. H., 114 Main
- MARSHFIELD**—Stevens, Oscar
- MAYNARD**—Holt, Abner D.
- METHUEN**—Homer, E. B.
Sanhorn Furnace Co.
- MIDDLEBORO**—Doane, J. & G. E.
- MILFORD**—Ellis, Clark & Sons
Norris, Staples & Gould
Smith, Jno. L.
- MILLBURY**—Ferguson, J. H. & Co.
Thompson, H. W.
- MILLERS FALLS**—Mathewson, Donald E.
- MILLIS**—La Croix, Edw.
- MILLVILLE**—Moloney, J. P.
- NANTUCKET**—Austin, Chas. W.
Barrett, Geo. A.
- NATICK**—Fiske & Co.
- NEW BEDFORD**—Bertram, John & Son, 59
Borden
Cejka, Louis, 158 Cedar Grove
Lloyd, Llewellyn, 205 Highland
Perkins, A. W. & Co., 167 Hillman
Sawyer, S. P.
Thacher, Thos. N., 63 N 2d
- NEWBURYPORT**—Foley, Richard J.
Greeley, Geo. E.
Holker, Wm.
Noyes, Daniel F.
Thomas, Thomas P. (Slate & Metal)
- NEWTON**—Leavitt, W. P. & Son (Slate, Metal
Swartz, Jacob & Comp.), 29 Pearl
- NEWTON CENTER**—Wilson, W. J.
- NEWTON HIGHLANDS**—Kieser, C. D.
- NEWTON LOWER FALLS**—Gammons, L. A.
- NEWTON UPPER FALLS**—Trowbridge & Es-
terbrook
- NEWTONVILLE**—Orr, H. W. Co.
- NORTH ADAMS**—Henry, F. O. & Co., 107
Holden
Hicks, Thos. H. (Slate), 43 E Brooklyn
Lyman, H. W. & Co.
Tower & Porter
- NORTH ATTLEBORO**—Hall, Wm M.
- NORTH BROOKFIELD**—Deyo, Chas. H.
- NORTH EASTON**—Kelly, E. E.
- NORWOOD**—Foreman, Wm.
Huntton & Co.
- ORANGE**—Hill, G. L.
Train, E. W. & Co.
- OSTERVILLE**—Hallet, G. W.
- PALMER**—Brown, E. Co.
- PEABODY**—Norton, Benj. F.
Sears, Frank L.
- PEPPERELL**—Weston, D. E.
- PITTSFIELD**—Backus, W. G. Sons (Slate,
Tile, Gravel & Copper), 4 Bank Row
Booth, G. A. & Son (Gravel & Comp.)
Bovett, D. W., 11 Melville
Doran, H. L. & Co., 213 West
Farrell, Daniel F. & Co., 194 North
Healey, T. J. (Gravel & Asphalt), 21
Spring
Hickey, James, & Co., 314 North
Noble, Johnson, Milne & Co., 85 Fenn

O'Connell, John P., 337 North
Sears, J. Henry, & Son, 38 Columbus av
Sears Roofing Co. (Slate, Metal & Gravel)

PLYMOUTH—Bailey, H. P. & Bro.
Harris, O. T. & Co.
Hathaway & Sampson

PROVINCETOWN—Bangs, W. B.
Engles, Herbert

QUINCY—Bouchard, Louis
Dolan, Michael A., W. Q.
Edwards, S. H.
Mayo, Geo. A., W. Q.
Sanborn & Damon, 117 Hancock

READING—Austin, Henry K. (Meta)
File, T. C.
Francis Bros.

ROCKLAND—Burgess, C. W.
Littlefield, Jno. F.

ROCKPORT—Smith, L. E.
Thurston & Hale

SALEM—Dean, James F. (Asphalt, Tar, Gravel & Metal)
Eklund, Victor
Gould, Jas. N.
Harris, Oscar M. (Felt & Gravel)
Pinnock, Thos. G. (Slate & Metal)
Wadleigh Co.

SAXONVILLE—Frost, David O.

SHARON—Gillespie, Jno. R.

SHELBURNE FALLS—Knowlton, O. L.

SOMERVILLE—Doe, R. W., 341 Medford
Durell, Julius A.
Gosse, C. E., 1 Union sq
Hunt, Edgar O.
Holmes, Wm. B., 317 B'way, Winter Hill
Howe, Wm. S., 51 Union sq
Larson, S. P., 24 Tufts
McMillan, Albert F., 377 Som. av
McNee, Thos., 12 Linden pl
Miers, Chas. J.

SOUTHAMPTON—Lyman, H. B.

SOUTHBIDGE—Southbridge Roofing Co.
Winter, Geo. C.

SOUTH FRAMINGHAM—French, M. E.
Sawyer, H. L.

SOUTH HADLEY FALLS—Moriarty Bros.

SOUTH LANCASTER—Rowell, Warren L.

SOUTH WEYMOUTH—Loud, M. R. & Co.

SPENCER—Pease, A. G. & Co.

SPRINGFIELD—Atwater, E. C. & Co., 21 Tay-
Barlow, Chas. B., 328 Worthington lor
Beebe, N. S., 17 Florida
Bacon, B. G., 18 Walnut
Blood, Lucius M., 122 Main
Brunton, Martin J. & Son (Slate & Gravel),
173 Liberty

Clark, Leonard & Son, 104 State
Clark, Simpson, 157 State
Clark, Wm. E., 499 State
Cox, John D., 27 Dwight
Estabrook, Geo. R., 146 State
Grant, A. & Son (Slate, Gravel, Felt & Composition), 23 Besse pl
Hampden Cornice Works (Slate, Metal & Tile), 26 Taylor
Johnson, Wm. H. (Gravel), 761 Liberty
Kirkham, J. Stuart, 71 Dwight
Lyon, A. E. (Felt & Gravel), 104 Cornell
McCarthy, Thos. H. (Slate), 53 Pendleton av
McCleary, John & Son (Slate), 196 King
McCormick, J. F. (Slate & Gravel), 361 Chestnut

Montague, Dwight B., 278 Main
Munsell, E. W., & Co., 597 Main
Pratt, H. J., & Co. (Metal, Gravel, Slate & Tile), 97 Dwight

Radding, Jos., 40 Greenwood
Quinn, T. E., 100 Franklin
Shine, Jno. J., 385 Bay
Shine, Jno. I., 385 Bay
Trauschke, Fred W., 6 Auburn
Wheldon, B. F., 424 Worthington
Whitcomb Stove Co., 11 Dwight

STOCKBRIDGE—Van Densen, Mrs. Jno. M.

STOUGHTON—Paul, Samuel, Jr.

SWAMPSCOTT—Phillbrick & Pope

TAUNTON—Baker, O. P.
Baker, Timothy O., 42 Main
Black, Wm. R. (Asphalt & Gravel), 32 Union
Crapo, H. G., Tremont & Fremont
Newhall, G. S., 6 Main
Whitmarsh, Irving F., 64 Weir

THORNDIKE—Bond, A. M.

TURNERS FALLS—Starbuck, George & Son

VINEYARD HAVEN—Armsby, Geo. F.
Tilton, H. L.

WALTHAM—Carr, Frank C.
Carr, Geo. H.

WARE—Marsh Bros.

WAREHAM—Humphrey, Albert

WARREN—Keenan, J. H.
Maxim, J. W.

WATERTOWN—Morris, Edw. O. (Slate)
Walker & Pratt Mfg. Co.

WEBSTER—Bates, A. J. & Son
Cazeault, J. T. & Bro.

WELLESLEY—Porter, F. H.

WESTBORO—Frost, Wm. B.
Woodman, G. H. & Co.

WEST DENNIS—Weyser, Chas. C.

WEST MEDWAY—Grant, W. R.

WEST NEWTON—Carley, C. G.
Cushman, Frank V.

WEYMOUTH—Bates, A. K.

WHITINSVILLE—Searles, Geo. F. & Sons
Sykes, W. T.

WHITMAN—Goodwin & Co.

WILLIAMSTOWN—Sherman, B. H.

WINCHENDON—Fisher, J. B. & Son

WINCHESTER—Pratt, Geo. E. & Co.

WINTHROP—Grimes, Michael & Co.

WORCESTER—Abramson, John R., 126 Commercial
Barnard, G. A. (Slate, Metal & Gravel), 74 Prescott

Buckley, A. H., 20 Lincoln sq
Callahan, J. W., & Son, 86 Foster
Carr, Geo. W. Co. (Gravel, Tar & Slag),
Cooley, Hy. P., 9 Brittan 518 Main
Hanley, Richard (Slate, Gravel & Metal),
Klely, James J., 113 Thomas. 142 Central
Lamb, J. B., 13 Park
McNally, D. E., & Co. (Slate, Metal & Gravel), 24 Houghton
Murray & Butler, 14 Thomas
New England Steel Roofing Co. (Steel),
274 Main

Ostberg, Carl Wm., 341 Pleasant
Pickup, Geo. W., 10 Pleasant
Power, Nicholas R., Co. (Gravel & Concrete), 10 Merrifield
Power, Patrick M., Jr. (Slate), 35 Prescott
Prouty Bros., 174 Main
Robinson, M. E., 100 Exchange
Robinson, Winslow H., 3 Prescott
Taylor, James S., 391 Pleasant

MICHIGAN.

ADRIAN—Baier, Jos. A.
Clauda, Paul
James, Heabler & Knight
Taylor Bros.
Vogel, Clemens
Wilcox Hdw. Co.

ALBION—Granger, Hardware Co. (Metal & Comp.)
Griffin, Geo. P. (Metal & Comp.)
Slowey, Wm. E.

ALLEGAN—Phillips Bros.

ANN ARBOR—Fischer, John C.
Muehlig & Schmid
Schlenker, C.
Schumacher Hardware Co.

BANGOR—Camp, Fitz W.
Seymour, F. S.

BATTLE CREEK—Battle Creek Furnace & Roofing Co.
Bock, C. F. & Son (Slate & Iron), 18 Madison
Breitenbach, James
Brockett, L. B. & Son, 59 W Main
Parrish & Morse
Shouldice Bros.
Pittman-Coates Hardware Co.

BAY CITY—Bialy Hardware & Supply Co.
Disher, Fred H.
Grove, Wm. J.
Hart, C. M. (Slate & Gravel)
Hershey, Frank
Jennison Hardware Co.
Mann & Ackerman
Sleno, Leonard
Smith, T. E.
Tossell, J. P.
Ufer, A. H.
Wilson & Wanless

BELLEVOILLE—Cady & Forbes

BENTON HARBOR—Colgrove, Wm. B.
Hall, A. T.

BIRMINGHAM—Blakeslee, J. R.

BLISSFIELD—Timmins, P.

BOYNE—Reichert, J. L.

BRIGHTON—Baetcke Hardware Co.

BROOKLYN—French, Stuart K.

BURROAK—Hazzard, F. J.

CADILLAC—Johnson, John

CALUMET—Carlton Hdw. Co.

CARSON CITY—Hallett, John W. & Son

CASSOPOLIS—Fisher, Jno. W.
Hayden, W. B. & Son

CENTERVILLE—Pitts, L. W.

CHARLEVOIX—Bartholomew, L. D. & Co.

CHARLOTTE—Munger, J. W. & Son

CHEBOYGAN—Cueny, J. E. & Bro.
Post, J. J. Hdw. Co.

CHESANING—McKenzie, Hector F.

CLARKSTON—Smith, Oliver A.

CLINTON—Lindsley, Geo. C. & Son

CLINTON—Lindsley, Geo. C.

COLD WATER—Allen, D. O. & Co.
Oandler & Lee (Metal & Slate)
Kerr Bros. (Slate, Metal & Comp.)
Kibbe, Chas. E.

CROSSWELL—Heard, Harry J.

DETROIT—Armstrong, B., & Co. (Felt & Gravel), 126 Champialn
Ames, Louis (Metal), 270 Grand River av
Berschbach & Herz (Tin, Slate, Gravel, Metal & Prepared), 634 Gratiot
Bertling, Paul C., 344 Grand River av
Buchta, Henry, 191 Livingstone av

BURTON, W. J. CO. (Asphalt, Felt, Slate, Metal & Tin), 161 W Congress.
(See adv. index, end of book)

Candler, J. D. & Co. (Slate, Metal, Tile & Comp.), 177 High, E

Clark, J. F. (Gravel, Slate & Tin), 18 Grant Court

Detroit Cornice & Slate Co. (Metal, Tile & Comp.), 145 St. Antoine

Detroit Gravel Roofing Co. (Gravel, etc.), 1588 W Jefferson av

D'Hondt, Victor, 23 Maple

Eagle Cornice & Roofing Co. (Tile, Slate, Gravel & Metal), 959 W. Fort

Ebert Bros. (Comp. Slate & Metal), 352 5th

Fuel Economy & Mfg. (Gravel & Ruberoid), 54 Jefferson av

Gilbert, G. W. (Asphalt, Comp., Felt, Gravel, Slate, Tin, etc.), 20 Gilman

GILMAN'S NO-GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Hartge, Jos. G., 220 Myrtle

Havercroft, C. A., & Co. (Tin, Slate, Gravel & Prepared),
Hensien Mfg. Co. (General), 136 St. Antoine
Hines, H. C., & Co. (Slate, Tin, Metal, Gravel, etc.), 354 Humboldt av
Howle Roofing Co. (Slate, Tile, Gravel Asphalt, Comp., Metal, etc.), 370 4th av
Hutchins Car Roofing Co. (Car), Ford bldg
Hutton, Robt., & Co. (Tile, Tin, Slate, Gravel, Asphalt, etc.), 112 Fort, E
Johnson, John, & Co. (Magnesia Flexible Cement), 368 Gratiot av
Kleln, Chas., 312 Woodward av
Lewis, Henry B. (Slate, Tin & Iron), 45 Jos. Campau av
Michigan Cornice & Slate Works (Slate, Tile, Metal & Gravel)
Orth, Adam J. (Slate, Tile, Copper & Metal), 166 Hastings
Pawlowski, John (Slate, Tile, Gravel, Metal, etc.), 666 Ferry av E.
Peabody & Son (General), 969 17th
Pudrith & Candler (Slate, Tile, Metal & Comp.), 74 Brush
Randolph-Ford Co. (Metal), Tower Court
Schillinger Bros. Co. (Asphalt & Gravel), Illinois & Duquindre
Schwenger, Gottlob, 930 Baldwin av
Union Sheet Metal Works (Slate, Metal & Gravel), 815 Russell
Voight & Sexauer (Tile, Slate, Metal, Gravel & Asphalt), 146 Sherman

DOWAGIAC—Bishop Hardware Co.
Schmitt Bros.

ESCANABA—Delta Hdw. Co.

FLAT ROCK—Longprey, L. T.

FLINT—Algoe, J. Frank
Foote, C. E. (Metal)
Hubbard, Geo. W., & Son
Sager, Wm. N.

GRAND HAVEN—Hartel, August
Pfaff, Fred, & Co.

FRANKENMUTH—Link, Chas. F.

FREMONT—Ralder, J. F. A. & Son

GRAND RAPIDS—Brown, J. W., 895 S East
Buob, Wm., 472 Jefferson
Denison, Dykema & Co., 666 Wealthy av
Elkenhout, Hy. & Son, 31 W Market
Mathews, Geo., 682 Madison av
Grand Rapids Sheet Metal & Roofing Co.,
505 N Ottawa

Hopson, W. C. & Co., 25 Campau
Kroeze, Peter, 10 Huron
Soknp, F. J. (Slate, Metal & Gravel),
121 S Front

Van der Brock & Rlddering, 380 Plain'd av
Weatherly Co. (Slate & Metal), 18 Pearl
Welfare & Stephenson, 1199 S Hivison

GREENVILLE—Fowler Co.
Ockerman, Wm. M.
Stevens, Geo. W. & Son (Tin & Iron)

HAMBURG—Cunningham, Jas. S.

HANCOCK—Kerredge, Wm.

HASTINGS—Goodyear Bros.
Weissert Bros.
HILLSDALE—Gardner Hardware Co.
Hillsdale Hdw. Co.
HOUGHTON—Portage Lake Hdw. Co. (Comp.,
Stoye, Fred Gravel & Metal)
HOWARD CITY—Larry Hardware Co.
HOWELL—Benedict & Ratz (Slate)
Schroeder, Fred. P.
HUDSON—Armstrong & Munger
IDA—Braunlich, A. H.
IRON MOUNTAIN—Corning & Barron
Mitchell, W. H.
JACKSON—Barkalow, Silas
Copsey, Chas. H.
Cowherd, Thos.
Daley & Rutherford
Drake & Robson
Loeser & Lehr, 110 E Main
McGraw & Crone (Slate & Metal), 214 E
Main
McLean, F. & Co. (Slate & Tin), 162 W
Oleslager, Jno. B., 510 E Main Main
KALAMAZOO—Boerman, John P.
Edwards & Chamberlin Hardware Co.
Kalamazoo Cornice Works (Slate, Iron, Tin
& Gravel)
Lakey, A. L. Co. (Slate, Metal & Gravel),
Larned & Shandrew 226 N Burdick
Metzger & Meulenber
Van Male, John
KEELER—Faherty, A. F.
LAKE ODESSA—Tolles, Howard E.
LANSING—Dunham Hardware Co.
Fleming, J. (Slate & Metal), 309 Wash av.
Goodrich & Gregory So.
McKale, Wm. H.
Mudford, Wm.
Norton, Chas. M. (Comp. & Metal), 111
Washington, S
LAPEER—Gray, Sidney T.
LYONS—Hatch & Baker
MANCHESTER—Kuebler, Louis A.
MANISTEE—Miller, Wm.
MANTON—Meyer Hardware Co.
MARINE CITY—Scott Bros.
Scott Bros.
Zimmerman Bros.
MARQUETTE—Clark, Daniel M.
Manhard, M. R. & Son
Neidhart, B. & Co.
MARSHALL—Osborne, Daniel
Treadwell, J. W.
Weaver, Edgar
MENOMINEE—Bertholdt, Herman C.
Northern Hardware & Supply Co.
MIDLAND—Reardon Bros. Merc. Co. (Tin &
Metal)
MILFORD—Hatch, F. B.
MONRENCI—Gust, G. W.
MONROE—Steiner, Wm.
MOUNT CLEMENS—Ferrin, Chas. S.
Ullrich, R. C., Hardware Co.
Widrig, Rosell
MUNISING—Thoenen, R. H.
MUNITH—Harris, Arthur M.
NASHVILLE—Glasgow, C. L. (Steel)
NEGAUNEE—Farson, S. A.
NEW BALTIMORE—Langell, Frank M.
NILES—Montague, C. M.
Platt, W. E.
Salisbury & Selfridge
NORTH BRANCH—Orr, Daniel
NORTHVILLE—Carpenter & Hnt
OWOSSO—Curry, Ira G.
Hadsall, H. H.
Post, H. M. & Son
Van Kammen, John
PAW PAW—Norwood, C. A.
Waters, H. C. & Co.
PETERSBURG—Kohler, Fred.
PETOSKEY—Bump & McCabe
Raynolds, Chas. A.
PLYMOUTH—Connor Hardware Co.
Huston & Co.
PONTIAC—Gable, Leonard
Hallett, E. J.
Rich, A. C.
PORT HOPE—Weatherhead, M. P.
PORT HURON—Bolligar, Jas.
Boyce Hardware Co.
Bnsby, Chas. E.
Casler, Conrad C.
Dart, J. A. & Son
Sturmer, Chas. A.
PORTLAND—Ferguson, R. L.
GUINCY—Barringer, W. Fred
Bishop, I. L.
Cole, S. B.
RANSOM—Thompson, O. W.
ROCHESTER—Tienken & Case
ROMEO—McDowell, Wm. C.
Moreland, H. H.
ROMULUS—McBride, W. S.
ROSOOMMON—Orcutt, Wm. B.

SAGINAW—Asphalt Roofing Co., 1424 S Ham-
Bauer, Jacob C. Ilton
Ferguson, John S.
Gemmill, Wm. & Son, 502 Potter
Jacobi, Alex. A. N. (Slate & Metal), 113 N
Warren av
Krogman, H. G., 212 N Hamilton
Leyerer, J. S., 408 Germania av
Martin, B. & Son, 816 Jane, E S
Paxson & Schoenberg (Tin & Steel), 213
N Hamilton
Saginaw Sheet Metal Works (Slate, Tile &
Saunders, Chas. Metal)
Schaberg, C. F., 308 Lapeer av
VALLEY CORNICE & SLATE CO.
(Ltd.) (Slate, Tile & Metal), 314-318 W
Hamilton, W. S. (See adv. index, end of
Weiland, Albert P., 731 Hoyt av book)
Winterstein, O. A. F.
ST. JOHNS—Fowler & Ball
Spaulding & Co.
ST. JOSEPH—Moulton, Chas. H.
ST. LOUIS—Humphrey & Brockway Hard-
SAUGATUCK—Koning, Jno. ware Co.
Schnobel, H.
SAULT SAINT MARIE—Soo Hardware Co.
SCOTTVILLE—Talmage, M.
SEBEWAING—Muellerweiss, Adolph
SHELBY—McKinnon Hardware Co.
Rankin, A. J.
Sargent, M. J.
SHEPHERD—Worthington, F. A.
SPARTA—Loops, Jas.
STANTON—Segar, Edwin L.
STURGIS—Feek, H. H.
TECUMSEH—Satterthwaite Bros.
Whitenack, D. L. & Co.
THREE RIVERS—Griffith, Jno. (Slate & Metal)
Reed, T. J.
TRAVERSE CITY—Arms & Cole
UBLY—Wilkinson, Harry J.
UNION CITY—Walker, C. S.
VASSAR—Brett, C. N.
Dean, H. C.
VERMONTVILLE—Bailey, F. J.
WALDRON—Gish, O. M. (Asbestos, Gravel &
WAYNE—Cozadd, J. C. Metal)
WOODMERE—Mason, Richard
WYANDOTTE—Gartner Hardware Co.
Karth, Frank A.
YPSILANTI—Carpenter, Edmund A.
Whitford, T. S.

MINNESOTA.

ADRIAN—Prediaux Bros.
AITKIN—Schadegg, Fred. G.
ALBERT LEA—Gulbrandson Hardware Co.
AUSTIN—Decker Bros.
Holmes Hardware Co.
BEMIDJI—Doran Bros.
BIRD ISLAND—Kromer & Hurley
BLOOMING PRAIRIE—Morton, E.
BLUE EARTH—Maas, A. G.
Maxson Hardware Co.
Rabe, Chas.
BUFFALO—Osterman, Jno.
CASS LAKE—Schwenk, Chas. & Son
CHATFIELD—Heyden, H. H.
CLOQUET—Fish, L. A. & Co.
Loisel, Jos.
CROOKSTON—O'Brien, J. E. & Co. (Asbestos)
DULUTH—Brown, E. M.
Burrell & Harmon (Slate & Meatl), 308 E
Deetz & Co., 406 E Superior Superior
Duluth Corrugating & Roofing Co. (Iron,
Pitch & Gravel)
Helbing, L. R. Co., 322 E Superior
Hollihan & Milostan, 207 W 1st
FARIBAULT—Cavanagh, Geo. W.
FERGUS FALLS—Bauer, Joseph
Frankoviz Hardware Co.
GIBBON—Isakson, Louis
GLENWOOD—Rowe, David W.
HARMONY—Kladder, E. F.
HOPKINS—Kocourek & Breen
KENYON—Tornblad & Pederson
MANKATO—Lewis, John A. & Son
Lulsdorff, G. & Son
MINNEAPOLIS—Allan, D. M., 311 6th av, S
Archambo Htg. & Plbg. Co., 317 5th
Barette & Co., 10 E 26th av, S
Berg, E. B., 15 S. E. Main
Bergman, A. F., 726 S. 4th
Boehme, G. Jr., 919 N E Main
Bixby, James W., 1244 6th av, N.
Burgess, John H., 3845 Bryant, S
Crittenden Roofing & Mfg. Co. (Slate,
Metal, Tile, Asphalt, etc.), 920 S. 4th
Drury, C. F., 1210 3d av, S
Duikin, M., 600 N. 5th.
Ebe, Anton, 748 Adams, S. E.

Gardner, R. H., 819 Washington av S E
Gardner, W. L., 6 E. Lake
Gerber, J. J., 128 6th av, S

GILMAN'S NEW GUARD

103 Merrimac, Boston, Mass. (See adv.
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Goetzenberger, E., 2421 Lyndale av S
Goetzenberger, Joseph J., 605 Cedar av
Great Wester Stove Repair Co., 312 Henne-
pin av
Henning, Julius, 27th st & 29th av S
Henseier & Naused, 1324 N. E. Marshall
Houston, M., 244 2d av, S
Jones & Sawyer, 3005 Hennepin av
Kaplan, Max, 709 N. 5th
Keller, L. J., 617 1st av, S
Kraus, Albert, 2441 Bloomington av
Krenzke, T. A., 26 W. Lake
La Duke, H. A., 3138 Clinton av
Lucas Bros., 424 Hennepin av
Middlemist, John & Sons, 9 N 2d
Minneapolis Roofing & Cornice Works,
403 6th av, S
Moorhouse, J. F., 3026 Harlett av
Morison, W. K., & Co., 247 Nicollet av
National Roofing & Cornice Co. (Slate,
Tile, Gravel, Metal, etc.), 1409 S. 7th
Nees, Louis, & Co. (Slate, Metal, Gravel,
etc.), 1207 S. 3d
Northwestern Roofing & Cornice Works
(Slate, Metal, Pitch & Gravel), 1113
S. 5th
Quam, H. J., 2013 Bloomington av
Roberts, H. O., 103 Western av
Robinson, Arthur H., 2805 Girard av S
Russell, Frank H., 2013 5th av, S
Saucier, Chas., 2008 Lyndale av, N
Selden Roofing & Mfg. Co., 76 Western
Shotwell, H. J., 14 9th st S av
Smith, H. F., 1961 Feronia av
Soiberg & Colby, 515 E. Lake
Stremel Bros. (Slate, Felt & General),
1215 Wash'n av, N
Swenson, Alfred (Gravel, etc.), 1026 N.
Townsend, A. W., 20 S. 2d 8th av
Tunstad Heating Co., 223 S. 6th
Turnblom, E. R., & Co., 2019 Central av
Wilson & Seelye, 516 Central av
Wishart, R. S., 424 S. 6th
York, Fred. J. & Co., 409 20th av N
MONTEVIDEO—Jensvoid, F. N.
MOORHEAD—Levitte, Jno. J.
NEW ULM—Gag & Ranweiler
Laudenschlager, W. F.
Roioff, Charles
NORTHFIELD—Blermann Bros.
Boe, H. A.
OWATONNA—Butsch & Son
Thon, John
Thompson, J. M. & Son, Hardware Co.
PARK RAPIDS—Breher, Jos.
Tennis, S. O.
PELICAN RAPIDS—Berg, Lara L.
PRINCETON—Grant, B. D.
REDWOOD FALLS—Laird, D. E.
Pease, E. A.
ROCHESTER—Stebbins & Co.
RUSHFORD—Grieser, Chas.
ST. CLOUD—Thielman Bros.
ST. PAUL—Acme Roofing & Cornice Co.,
Ackerman, Wm., 561 B'way 436 Selby av
Adams, E. J., 374 Jackson
Armbruster, E. A., 50 W 4th
Atwater, J., 2378 Hampden av
Bergstrom, Mrs. A. (Carl), 600 E Cook
Bodman, Henry, 194 E 14th
Decker, A., Hardware Co., 347 Jackson
Finn, Thos., 468 St. Peter
Flitsch, Gust. L., 14 Douglas
Franz, L., & Son, 480 Banfil
Grayum Bros., 157 W. 7th
Griffen & Boehme, 121 W. Unlverslty
Haag, George, 355 W. 7th
Haag Roofing & Cornice Co., 28 W. 3d
Haag, Wm. P., & Co., 309 W. 7th
Haas & Anderson, 131 S. Wabasha
Haase, C. A., 744 Grand av
Heini, John, 918 W. 7th
Hinderer, Edward, 195 W. 6th
Janitschke Bros., 751 N. Snelling av
Knickerbocker Roofing & Paving Co.,
189 W 3d
Lefebre-Desiauriers Roofing & Cornice Co.
(Slate, Tile, Asphalt, etc.), 311 Chestnut
Laubach, J. A., 152 Baker
Marzoif, A., & Co., 117 W. 6th
Matteson, B. C., 786 Grand av
Minnesota Roofing & Cornice Works, 135
Moshofsky, Frank, 379 Rice 12th
Northwestern Lime Co., 68 Lower Levee

Novak, Leo, 555 Rice
 Peyer, E. J., 543 Rice
 Phillippl, Michael, 905 Rice
 Prendergast Bros., 20 E 6th
 Rossberg, C. E., 148 N Dale
 Schleck Bros., 991 W 7th
 Schleh & Ryan, 91 Concord
 Schletz, R. H., 674 Winslow av
 Schneider & Luckert, 228 W 3d
 Schroeder, Bros., 902 Payne av
 Scribner-Libbey Co. (Comp. Slate & Metal), 219 W 5th
 Stallman, E., 407 Rosabel
 Staples & Staples, 565 Decatur
 Stuhman, J. C., 429 S Wabasha
 Wenzel, Robert, 661 Kent.
 Wolterstorff-Haskell Range & Furnace Co., 186 E. 6th
 ST. PETER—Feldman, Charles H.
 SAUK CENTER—Hillerud, G. & Co.
 SHAKOPEE—Mergens, Henry
 STILLWATER—Evans, W. T.
 Loeber, August
 Strudwick, J. F.
 THIEF RIVER FALLS—Jackson & McGinn
 Oen Merc. Co.
 TWO HARBORS—Schreiner Bros. & Moulton
 WABASHA—Schmidt, Julius
 WARREN—Taralseth, K. J. & Co.
 WILLMAR—Lewis Hardware Co.
 WINONA—Bauerlein, C. A. Hardware Co.
 Cone, R. D. Co.
 Magnus & Wilkens, 119 E 2d

MISSISSIPPI.

ABERDEEN—Laun & Carter Hdw. Co.
 Henderson Hdw. Co.
 Miller, J. A.
 Warburton, T. R.
 COLUMBUS—Newby Bros.
 CORINTH—Byrnes, M. & Son
 JACKSON—Braddock, L. J.
 Daley, C. E.
 Gaston, H. D.
 Key-Price Hardware Co.
 McClelland, Thomas Hardware Co.
 Wright, Ray
 MERIDIAN—McMillan, A.
 Melton Hardware Co.
 Switzer, J. W. & Son
 NATCHEZ—Boyle, B.
 Boyle, B.
 Holmes, T. J.
 Mulvihill, P. W. (Metal & Slate)
 Schwartz & Stewart
 VICKSBURG—Bruser, Wm. H. (Slate, Metal, Comp. & Gravel)
 Smith, J. B. (Slate, Comp. & Metal)
 WEST POINT—Foster & Co.
 Quinn, H. L. & Co.
 YAZOO CITY—Cummings, M. F. (Slate & Tin)
 Jenne, George

MISSOURI.

AURORA—Aurora Hardware Co.
 Burney & Richart
 Burney Bros.
 BERGER—Freese, A. W.
 BETHANY—Bethany Hardware Co.
 Cole, W. C.
 BETHEL—Bower, W. C.
 BOONVILLE—Hirlinger, Frank H.
 Vanatta, Frank
 BOWLING GREEN—Campbell Bros.
 BRAYMER—Divebiss & Toland
 BROOKFIELD—Post, M. C.
 BUCKLIN—Hausmann, T. A.
 Murphy, Hy.
 BURLINGTON JUNCTION—Corken Bros.
 BUTLER—Bennett, Wheeler Mer. Co.
 Ray, Hayden
 Ray, John
 CAMDEN—Burnett, Clarbourne
 CANTON—Martin, C. F.
 CAPE GIRARDEAU—Brunkhorst, A. F.
 Leher, H. A.
 Vogel, W. H.
 Vogt, F. W.
 CARTERSVILLE—Wood, N. J.
 CARTIAGE—Drake Hardware Co.
 CARUTHERSVILLE—Caruthersville Hdw. Co.
 CENTRAL—Fuhrmann, J.
 CHILLICOTHE—Batta, Joseph
 Markey, James A.
 Palmer, S. & Son
 CLARENCE—Lagenbock, A. (Est. of)
 CLARKSVILLE—Kissinger, J. H.
 CLINTON—Baum, Hy.
 Blakemore, Jas. N.
 Haysler-Rose Co.
 COLUMBIA—Gribble, H. J. & C. E.
 Matthews, Charles
 Hornberger, W. W.
 Jones, R. P. & Son
 Newman, C. C. & Co.
 CORDER—Kleinschmidt, H. F.
 DEEPWATER—McCown, W. H.
 DE SOTO—Cunningham-Hamel Mercantile Co.
 (Gravel, Tin, Comp., etc.)
 McLane, D. D.
 Slawson, A. F., Gravel, Tin, Comp., etc.)
 DEXTER—Miller, Ulen & Carter
 DIXON—Dixon Hardware Co.
 DOWNING—Bailey, O. M.
 EDINA—Frobes Bros.
 ELDORADO SPRINGS—Smith, B. W.
 EVERTON—Goforth-Hankins & Co.
 EXCELSIOR SPRINGS—Westbrook, E.
 FARMINGTON—Boswell & Helber
 FAYETTE—Kelly, D. P.
 FLORISANT—Albers, Aug. O.
 Humbach, Peter L.
 Klenstra, Anthony
 FRANKFORD—Bucks, Jno. K.
 FULTON—Callaway Hdw. Co. (Slate & Metal)
 GALLATIN—Lawrence-Osborne Hardware Co.
 GLASGOW—Blocher & Huber
 GLENWOOD—Chattin, Wm. & Bro.
 Smith, Celeste
 GREENFIELD—Heldenstein, Amos
 HAMILTON—Barker, F.
 HANNIBAL—Busby & Baskett
 De Laporte, J. A.
 Farmer, J. O.
 Hynes, J. E.
 Kanstner, Wm.
 Kaup, Wm.
 Peck, E. J.
 Shea, Morris
 HARRISONVILLE—Parsons, J. C. & Bro.
 HERMAN—Eberlin, Armin
 HOLDEN—Tavis, J. H.
 HUMPHREYS—Whaley & Son
 INDEPENDENCE—Casper, Martin
 Hill & Martin (Slate & Metal)
 JACKSON—Jaeger, Adolph
 Wolters, R. S.
 JASPER—Bayne & Son
 JEFFERSON CITY—Natsch, Anton
 Schleer Bros.
 Stahlr, M. M.
 JOPLIN—Harvey, A.
 Joplin Cornice Works
 Morgan, W. E. Roofing & Mfg. Co. (Gravel, Comp., etc.)
 KANSAS CITY—Bennett, J. H., 1206 E 24th
 Blake, C. E., 210 W Port av
 Brink, J. H., 1915 Grand av
 Carey, Phillip Mfg. Co., 526 Delaware
 Conkey Roofing Co. (Gravel), 1314 E 18th
 Cubine, W. B., 3031 S W boul
 Decker, Sarah M., 2001 Indiana av
 Dietrich, Peter, 706 W 14th
 Dietzel, F. H., 2117 E 15th
 Gels, John G., 1001 W 24th
 Gille Mfg. Co., 1053 St. Louis av
 Gordon, H. & Co., 1713 Grand av
 Gray, F. L., 407 Oak
 Heckard, W. S., New Ridge bldg
 Humbrock, Gustavus R., 2700 Summit
 Jakobe, J. G. & Sons, 1318 Main
 Johns, H. W.—Manville Co., 1410 Main
 Kansas City Asbestos Mfg. Co., 1412 Main
 Kansas City Furnace Co., 618 Prospect
 Kansas City Slate & Tile Roofing Co., 21st & Forrest
 Kansas City Standard Roofing Co., 2118
 Kimmel, J. C., 3310 E 15th Grand av
 Kirby, Scott, 709 E 31st
 Kornbrodt, Chas. T. (Slate, Tile, Metal & Asbestos), 1811 Troost av
 Malken & Sons, 2508 E 31st
 Nail, J. C., 1421 E 18th
 Redheffer Co., 544 Main
 Reed, H. M. (Hardware), 3136 Jefferson
 Ritzler, J. A. Cornice & Ornament Co. (Slate & Metal), 2410 E. 18th
 Sellers & Marquis Roofing Co., 105 W 8th
 Seymouir & Kiff, 2408 E 16th
 Sick, W. F., 2804 E 18th
 Silverstein, B., 1223 Inde ave
 Stoeltzing Bros. Stove & Cornice Co., 1605 Grand av
 Stoeltzing, Martin, 1605 Grand av
 Stophlet, F. C., 12 E Missouri av
 Twichell Iron Co., 920 W. 3d
 Stoeltzing, Martin, 1605 Grand av
 Stophlet, F. C., 12 E Missouri av
 Twichell Iron Co., 220 W 3d
 Vanstone, Walter, 2901 E 18th
 Walter, G. E., 522 Grand av
 Weis, Henry Cornice Co. (Iron, Slate & Tile), 1811 Wyandotte

Western Roofing Co. (Comp. & Gravel), 17 W. Missouri av
 Zahner Mfg. Co., 12 W 10th
 KENNETT—Riggs-Petty Hardware Co.
 KEYTESVILLE—Vaughan, W. D.
 KIRKSVILLE—Clark, R. Hdw. Co.
 Helne Hdw. Co.
 KIRKWOOD—Cronin, M. W.
 Daly, W. M.
 Donworth, Wm.
 LA GRANGE—Oyster, W. E.
 Wright, W. J.
 LAMAR—Adams Hdw. & Furniture Co.
 Barth, A. H.
 Humphrey & Bro.
 LANCASTER—Freidrich, C. C.
 LA PLATA—Fulmer, G. H.
 LEBANON—Bantley Bros. Hardware Co.
 Koby, Victor & Son
 LEWISTOWN—Thale, Aug.
 LEXINGTON—King & Marrs
 Yingling, C. E.
 LIBERTY—Harlin, John W.
 Poage, Cyrus B.
 LOCKWOOD—Wookman Bros.
 LOUISIANA—Rose, C. B.
 Suda-Buffington Hdw. Co.
 LURAY—Combs & Webb
 MACON—Demeter, E. A.
 Jaeger Bros.
 Mayer, Frank Hardware Co.
 Patton, B. P.
 Walker, W. P., Sr.
 MARSHALL—Johnston, O. W.
 MEMPHIS—Bedbury, Robert N.
 Courtney, J. C.
 Mount, J. E.
 MEXICO—Ferris & Redmond
 MILAN—Lane & Evans
 MOBERLY—Stauffer, P. & Co.
 MONETT—Floeth, W. H.
 MONROE CITY—Jaeger, Alfred
 NAPOLEON—Gaeth, Carl
 NEOSHO—Briggs Hardware Co.
 NEVADA—Eppenaucr, Jos. P.
 NEW CAMBRIA—Nichols & Goodson
 OLEAN—Inglish, F. W. & Co.
 ORONGO—Stults, R.
 PALMYRA—Best Bros. Hardware Co.
 PERRY—Barr & McElroy
 Coll & Fairhairn
 Stehle & Son Stove Co.
 PLEASANT HILL—Hon, W. W.
 Pearce, M. E.
 PRINCETON—Safarik, J. F. J.
 QUEEN CITY—Casper, Jos. T.
 RICHMOND—Percival, J. H.
 Shoop & Smith
 ST. CHARLES—Ebeling, Louis
 Heye, Thos.
 Nolle, Louis
 Pallardy, L. L. & Co.
 ST. JAMES—Burge, J. F.
 ST. JOSEPH—Carolus, Geo. A., 1703 Frederick av
 Cramer & Gelwitz, King Hill & Colo av
 Gehrs, Herman J., 1019 S 8th
 Jesberg, Wm. H., 1212 N 3d
 Langan, Peter, 305 S 4th
 Miller, Chas., 621 Messane
 Parrish-Erickson Hdw. Co., 115 S 6th
 Rich, Felix
 Robertson, Wm. J. (Gravel), 922 S 6th
 Schwein, Aug. Stove Co., 419 Edmond
 Seaman & Schuske Metal Wks. Co. (Slate, Tile, Metal & Asphalt), 1604 Frederick
 Wehrman, Wm. (Slate & Metal), 119 N. 2d
 Welbers, W. J., 1106 Parson
 Whelan, Alex. T. (Slate & Metal), 1001 S 10th
 Williamson, Wm. C., 202 Highland av
 ST. LOUIS—Ahrens, Fred'k, 7120 S B'way
 Amrhein, Jacob, 1410 S. 18th
 Arcade Tinning, & Slating Co. (Slate & Metal), Arcade bldg
 Bence, Joseph, 2005 Cass av
 Bennett, Geo. W., 3641 Cass av
 Berwanger, Louis, 2503 S. Jefferson av
 Blohm, Chas. H., 1120 Emmet
 Bokern, Frank T., 217 Market
 Brinkmann, John H. & Sons, 1913 Olive
 Buchfelder, John, 3611 Kossuth av
 Burke, Jas. H., 2727 Sheridan av
 Caine & Miller, 2430 Cass av
 Campe, Wm. J., 1921 Franklin av
 Condon Bros., 1026 Market
 Decker, E. G., 3330 S B'way
 Daniels Roofing & Supply Co., 206 Walnut
 Davis, Wm. R., 718 N Vandeventer av
 Dockery Heating & Sheet Metal Co., 3514 Easton av
 Doerste, Herman H., 4728 Hanover av
 Dolson, Chas. L., 521 Biddle
 Eberle, J. & Son, 4014 Leclade av

Ebert, Robt., 1022 S. 12th
 Ellman, Louis, 1008 N 7th
 Epenter, Julius L., 4740 Delmar boul
 Excelsior Roofing Co. (Felt, Comp. & Gravel), 4923 Delmar boul
 Finger, Geo. & Co., 2008 Russell av
 Fisler, Gottlieb, 2206 S 3d
 Foy, Matthew H., 1858 Park av
 Frick, Jos. D., 2547 Maiden Lane
 Funke, Bernard J., 1917 College av
 Glessow Cornice Works, 3721 Cass av

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Gilsonite Roofing & Paving Co. (Tile & Comp.), 721 Olive

Godfrey, W. E., 8039 N B'way
 Gossel, Chas., 2648 Olive
 Grevels, Edmund, 4520 Easton av
 Grundorf, John W., 1600 Blair av
 Hahne, Wm., 2124 Gravois av
 Halpin, James Mfg. Co., 1513 Chestnut
 Hammermeister, Otto A. (Gravel, etc.), 3322 Lemp av
 Hayden, John A. Slate Co. (Slate & Tile), 2006 Locust

Heagen, P. (Comp.), 1530 Morgan
 Heagen, Thomas A. Roofing Co., 1532 Morgan

Hemp & Co., 904 S 2d
 Harold, John C., 3521 Florissant av
 Higgins, Frank B., 924 N. 6th

Higgins, John F., Mfg. Co., 5619 Easton
 Hlob Bros., 4053 N Broadway av
 Hogan, Thos. W., 1817 Washington av

Hubenschmidt Bros., 2108 Franklin av
 Huber Bros. Cornice Co., 3744 St. Louis av
 Huhn, Edw., 631 S. 4th

Hummert, Wm., 1131 N B'way
 Jarolimek, F. J., 1869 S 12th
 Jefferson Roofing Co., 218 Chouteau av

Jordan, Adolph, 1848 Cass av
 Jordan, Wm. M., 1123 Market
 Kadell, Chas. W., 2729 Lafayette av

Kaul, Frank, 3022 Oregon av
 Kern, Dominick J., 716 N. King's High-
 way boul

Kestranek, Jos. & Son, 2907 McNair av
 Kihlehn, Henry, 1431 Old Manchester rd
 Kleinhenn, Henry, 2637 Chouteau av

Klittich, Ernst L., 707 Carroll
 Knox, Thos. E. & Co., 4608 Easton av
 Koch, Moritz, 2812 Manchester av

Koelsch, Wm., 1124 Buchanan
 Kohlmeier, Geo. E., 8222 N. B'way
 Krauss, Anthony, 4260 Easton av

Larkin, Michael P., 2823 Easton av
 Latal, Jno. J. Roofing Co. (Gravel, Slate & Comp.), 4422 Easton av

Lintzenich, Jacob E., 721 Olive
 Lintzenich, Joseph W., 810 Olive
 Lloyd, Geo. E. (Slate, etc.), 1210 Dolman

Loch, Charles H., 1007 N. B'way
 Loeblein, Geo., 6921 Old Manchester rd
 Lorenz, Chas., 2615 Bismarck

Lucas, Philip G., 2726 Gravois av
 McCracken, C. E., 4250 Hartford
 McHenry, Thos. & Sons, 4001 Easton av

McDermott Roofing Co., 1417 Grattan
 Macmahon Roofing Co., 4118 Evans av
 Mager, Philip W., 810 S 4th

May, Louis, 4406 A Rutger
 Mende, Aug., 2822a Victor
 Merkel, Herman, 509 Elm

Meyer, Theodore C., 2136 Sallsbury
 Meyer & Axthelm, 4054 Olive
 Moll Bros. (Gravel, Felt & Comp.), 1019

Muciler, Adolph, 911 N 9th
 Murkiff, Patk. B., 4975 Easton av
 Naughton, P. S. Slate Roofing Co. (Slate, etc.), 3620 Laclede av

Nitka & Lindauer, 1725 S B'way
 Noonan, Leon C., 812 W 14th
 Ogden, Jos. B., 1100 Ohio av

O'Toole, Edw'd F., 7935 N B'way
 Palublak, John, & Son, 4107 Chippewa
 Peter, Fredk. A., 2827 N 9th

Powers & Boyd Roofing & Cornice Co. (Slate & Metal), 3614 Laclede av
 Reardon & Co., 1413 N. B'way
 Riddle, Geo. A. & Co. (Slate, etc.), Odd Fellows bldg

Rimmelin, Richard, 1120 N B'way
 Root, W. L., 1905 S Jefferson av
 St. Clair Roofing Co. (Comp. & Gravel), 921 Chestnut

St. Louis Cornice Co. (Slate & Mantel), 1914 Union blvd
 St. Louis Roofing Co. (Felt, Comp. & Gravel), Wainwright bldg
 St. Louis Tin & Sheet Metal Working Co., 212 S. 7th

Santen, John H., 1134 Pine
 Satterfield, John G., 4253 John av
 Schaperkoetter, Gustav, 2222 Maiden la
 Schoening, Zesch, 2618 Laclede av
 Schmidt, Otto, 821 Market
 Schneider, Chas. G., 2711 Arsenal

Sidler, B. & Co., 1823 N Taylor av
 South St. Louis Cornice Works Co., 3932
 Spellmeyer, Otto, 2519 S 2d Iowa av
 Standard Roofing Co. (Comp.), 1109 Chest-
 Standifer, Louis, 5865C Easton av nut

Steube, Jos., 1501 Gratiot
 Stirrat, James, 4240 Olive
 Suda, Louis M., 1551 S Jefferson av

Sybertz, Frank, 507 Clark av
 Sydow, Herman, 6333 S B'way
 Sydow, John, 7828 S B'way

Therman, Luke, 1019 Chestnut
 Tipton & Mackey, 4948 Easton av
 Toomey, Michael J., 3648 Cote Brillante av

Trinidad Asphalt Mfg. Co. (Asphalt, Comp., etc.), 320 S 21st
 Uhrig & Jeune Tinware & Roofing Co., 219 S 14th

Vantilburg, Geo. H., 1512 Park av
 Vogler, A., 2706 Indiana
 Wallrapp, Louis, 455 N. Sarah

Wehmeyer, Frederick, 1435 St. Louis av
 White, Thos. H., 2225 Sidney
 Wiegrefe & Heintz, 1463 N Market

Williams Roofing Co. (Slate), 4331 McRee av
 Wunderlich, George, 1410a Salisbury
 Wolff, Albert, 705 S 4th

Young, C. (Comp. & Gravel), 2615 Victor
 Zacharias, Wm., 1209 Park av
 Zimmerebner, Domenicus, 5355 Old Man-
 chester rd

Zitko, Charles, 17 N. Ewing av
 Zuber, Gottlieb, 3117 S B'way
 Zurcher, John T., 1428 Monroe

SEDALIA—Hegenfritz Hardware Co.
 Sedalia Hardware & Gro. Co.
 Smith, D. H.

Werner, A. F.
 SHELBURYVILLE—Miller, N. C.
 SLATER—Jenkins, R. T. & Bro.

SPRINGFIELD—Anslinger & Co., Sheet Metal
 Works (Slate & Metal), 212 E Walnut
 Baum Hardware Co.

Carmack & Rathbone, 510 Commercial
 Speaker, Ernest, 323 Boonville
 Welhermer, William

STOUTSVILLE—Walters & Kincald
 SWEET SPRINGS—Rembert, A. S.
 TINA—Evans, E. L. (Est. of)

TRENTON—Witten Hardware Co.
 WARRENSBURG—Stillwell, M. F.
 Warnick Bros.

WASHINGTON—Busch, E. G. & Co.
 Dickbrader, H. J.
 Poppenhausen, William

WEBB CITY—Mead & Palmer
 WENTZVILLE—Wullschlegel, Fred.
 WESTON—Schwope & Mitchell

WEST PLAINS—Dressler, C & Co.
 Fitzgerald, M. G.
 WHEELING—Smiley Bros.

WINDSOR—Davis, H. T.
 WYACONDA—Bowman, Jno.
 Matthews, Jas. C.

• MONTANA.

ANACONDA—Copper City Commercial Co.
 Stagg, J. P.

BILLINGS—Yegan Bros.

BOZEMAN—McCay, Harry B.

McCay, J. J. (Mrs.)

Reeder & Budd

BUTTE—Anaconda Copper Mining Co. (Hard-
 ware Department)

DEER LODGE—O'Neill Hdw. & Plumbing Co.

Trask, M. W.

GLENDIVE—Lowe, Wm.

GREAT FALLS—Minter, Gus G. (Gravel & Metal)

HELENA—McKinnon, H. A., 405 N Main

Mitchell, John (Slate & Metal), 352 N Main

Rummell, Jacob, 114 E 6th av

KALISPELL—McIntosh Hdw. Co.

Missoula Mercantile Co.

LEWISTOWN—Judith Hardware Co.

Mont Hardware Co.

St. Clair, J. H.

MISSOULA—Missoula Mercantile Co., 102 Front

NEBRASKA.

AINSWORTH—Oakley, A.

ASHLAND—Clarke Hardware Co.

BEATRICE—Lock, Ira D.

BROKEN BOW—Rogers, W. P.

COLUMBUS—Boyd, R. C. & Son

FREMONT—Globe Cornice Works

Lee-Miller Hardware Co.

Smith, F. M. & Son

GOTHENBURG—Jennings & Spaulding

GRAND ISLAND—Detlefsen, Lewis

Hehnke & Co.

Lederman, A. C. Co.

McAllister, R. H. & Co.

Wingert, J. A.

HOOPER—Heine, J. F. & Son

KEARNEY—Bodinson, C. F. Hdw. Co.

Hubbell Bros.

LEXINGTON—Bancroft, J. S.

Zepf, Geo.

LINCOLN—Hall Bros. Co.

Keller, John, 1435 O

Krause, W., 806 O

Nichols Roofing Co. (Comp.), 413 S 7th

Way, Palmer, 2217 O

McCOOK—Polk Bros.

Waite, H. P. & Co.

NEBRASKA CITY—Henry & Fischer

Kuwitzkey, Horace

Ziels, G. W.

NORFOLK—Degner, Albert

Friday, Jno.

Laubsch, Carl S.

NORTH BEND—May, Milton

NORTH PLATTE—Fillon, Jos. T.

OMAHA—Barrick, Edw'd Roofing Co. (Asphalt, Comp., Felt, Gravel, Slate, Tar, etc.)

Bjornson & Haas, 214 N 15th

Haberstroh, W. A., 4038 Hamilton

Hauth, Philip, 3124 S 20th

Heaton, W. S., 1301 Farnam

Jones, J. H. Roofing Co. (Slate, Tile, Mica, Asphalt, Comp., Felt., etc.), 1517 Burt

Kastl, J. F., 1414 S 13th

Koch, G. E.

Krelle, C. F., 610 S 13th

McMahon, John M.

Mica Roofing Co. (Mica & Gravel), 510 S

Miller & Peterson, 2518 Cumming 12th

Murray, D. E.

Nast & Son

National Roofing Co. (Slate, Gravel, Mica, Tile, etc.), 510 Ware blk

Olson Bros., 2570 Leavenworth

Rogers, G. W. (Comp., Gravel, Asphalt & Felt), 915 Douglas

Savage, Edw'd, 2822 Farnam

Simon, Wm.

Simouson & Norby, 1705 Cumming

Sunderland Roofing & Supply Co. (Magnesia),

Thrane, L. C., 509 S 10th 1208 Farnam

Wilg & Son, 713 S 27th

O'NEILL—Davidson, James

PAPILLION—Pacey, E. D.

PLATTSMOUTH—Kroehler & Vetesnick

RULO—Winterbottom, Jno. S.

SOUTH OMAHA—Grist, M. W.

Jensen, Ferd.

Wright, Sanford

SUTTON—Carney, S.

WACO—Tinker, C. W.

NEVADA.

CARSON—Millard, A. J.

EUREKA—Cromer, L. W.

RENO—Genesey, B. J.

Nevada Hardware & Supply Co.

Nevada Sheet Metal Works

NEW HAMPSHIRE.

ALTON—Buckley, Paul E.

AMHERST—Taylor, F. C.

ANTRIM—Hunt, Geo. W.

ASHLAND—Sanborn, E. W.

BELMONT—Barrett, W. J.

BERLIN—Berlin Mills Co.

BRADFORD—Marshall, Chas. H.

CANAAN—Eastman, Daniel

CLAREMONT—McGrath, John (Slate, Felt & Gravel), 48 Summer

CONCORD—Britton, A. H. & Co.

Darrah, W. E. (Gravel & Slate), 156 N Main

Hobson, J. Edgar

DOVER—Hayes, Henry G.

Kennedy, Jas. H. (Slate & Gravel)

Littlefield, Frary & Co., Wash'n st

Snow, Geo. W. (Tar & Gravel), 4th st

ENFIELD—Fogg, Fred. A.

EPPING—Ladd, John S.

EXETER—Young, Augustus

FARMINGTON—Thayer, W. F.

FRANKLIN—Jenkins & Wallace

HANOVER—Brown, Chas. D. & Co.

Ford, E. T.

HENNIKER—Connelley, Edw.

HILLSBORO—Newman, W. E.

HINSDALE—Taylor, H. W.

KEENE—Kirk Sewall
Pearson Bros.
LACONIA—Smith, James S. & Co.
LAKEPORT—Brawn, W. H.
Dame, C. C.
LANCASTER—Moore, L. F. (Est. of)
LEBANON—Hildreth, C. M. & Son
LITTLETON—White, R. P.
MANCHESTER—Blood, F. W. Roofing Co.
(Slate & Metal)

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See
adv. index, end of book)

Briggs, Thos. J.
Darrah, Geo. W. (Slate & Gravel)
Knoettner, Geo. & Co.
Lawson, H. J. (Slate & Metal)
Mansau & Grimard
Marineau, Camille
Moreau, J. J. & Son (Slate, Metal &
Gravel)
O'Brien, Martin
Pike & Heald Co. (Slate & Metal)
MARLBORO—Harlow, Edw.
MEREDITH—Pynn, Gilbert
MILFORD—Powers, Geo. A.
MILTON MILLS—Murray, Daniel
NASHUA—Clarke, E. W. (Slate & Metal), 12
Colburn, Roy A. Tyler
Sanders, Jas. A. (Gravel, etc.), 7 Union
Woodbury, A. K. & Co. (Felt, Comp. &
Gravel), 42 Arlington

NEW MARKET—Griffin, Jno. H.
NORTH HAMPTON—Philbrick, C. W.
PENACOOK—Baty, Isaac
Bean, W. A.
Quimby, Wm. B.
PETERBORO—Fish, A. E.
Nichols Bros.
Parkhurst Bros.
PITTSFIELD—Nutter, M. Henry
PORTSMOUTH—Paul, Willard E.
Sweetser, John P.
ROCHESTER—Bailey, C. M.
Judkins, C. E.
SANBORNVILLE—Haynes, J. M.
SOMERSWORTH—Murray, Jas. W.
TILTON—Greenwood, Joseph
Smith & Smith
WALPOLE—Morse, Chas. W.
WOODSVILLE—Mulliken, A. F. & Son

NEW JERSEY.

ALLENTOWN—Korer, W. H.
ALLOWAY—Darlington, A. L.
ARLINGTON—Whitefield, Thomas J. (Slate &
Felt), 578 Chestnut
ASBURY PARK—Burke, P. L., 405 Bond
Day, Edward, & Son
Griffin, James F.
Hurley, James
Hutchison, Addison, Bradley Beach
Reichey, W. W., Belmar
Rugarher, Charles
Ryno, John (Slate)
Taylor, Andrew, 25 S Main
Whittle, William (Slate & Felt)
ATLANTIC CITY—Atlantic City Cornice Works
Cnrrle Co.
Frey, Jacob J.
Horan, Michael J. (Slate)
Kenney, F. J. & Co.
McDevitt Bros. & Co.
Stevens, B. L.
Sykes, Jno.
Taylor, S. C.
BAYONNE—Devaney, J. J. (Slate & Metal),
297 Av D
BELMAR—Crowther, Wm. B., Jr.
Haberstick, Samuel
Reichey, Wm. W.
Williams, T. H.
BELVIDERE—Perry, D. & Sons
Widemer Bros.
BERLIN—Burl, Henry
BERNARDSVILLE—Bromfield, W. R.
Buist, David
Davis, H. J.
Griffith, Charles H.
BEVERLY—Cryathorn, Isaac T.
BLOOMSPURY—Kremer, Geo. B.
BLOOMFIELD—Ernst, August
BOONTON—Kopp's, J. I. Sons
BORDENTOWN—Enright, James & Co.
BOUND BROOK—Gillespie, S.
Voorhees & Giles
BRIDGETON—Adams, Harry L.
Anderson & Bro.
Harper, Geo. W.

BURLINGTON—Barclay, Robert W.
Buck, Isaac W. (Est. of)
Estilow, Leon
Flreng, Franklin G.
Jobes, George W.
BUTLER—Harmon, John
CAMDEN—Austermuhl, E., 310 Vine
Ansternmuhl, Geo. (Metal), 23 N 3d
Bigler, Geo. E., 2800 Sherman av
Childrey, T. D., & Son, 7th & Kaighn av
Cole, Chas. A. Co. (Slag), Delaware av
Curry Bros., 408 Pine c Wood
Dobhins, Oscar C. (Gravel, Comp., Slag &
Slate), 38 N 5th
Doughten, Wm. H., 321 N 8th
Farrell, Danl., 106 N Front
Hunsinger, Wm. E., 741 Walnut
Johnson, John W. (Slate, Comp. & Gravel),
408 Haddon av
Klostermann Bros. Co. (Slate & Metal),
1016 B'way
Kreher, Herman, 1220 N 25th
Kurth, Chas., 836 B'way
Lounsherry, Harry C., 539 Arch
McFerren, Geo. W., 328 Arch
Metallic Mfg. Co., 232 Spruce
Moore Bros. (Slate & Metal), B'way &
Neutze, Jacob, 510 S. 5th Clinton
Belhmann, Max., 713 W 28th
Schrack, Welling G., 513 Federal
Sigle, C. R. (Slate), 24th c Federal
Spaeth, G. F., 512 Chestnut
Trego, W. R., & Co., 505 N. 5th
Vandersdlice, Thos. A., 523 Federal
Welsh, Geo. W., 744 Mt. Vernon
Whitehead, Caleb C. (Slate, Comp., Slag &
Gravel), 26 S 5th
CAPE MAY—Curtis, B. S. Gravel, 26 S 5th
Shallus, C. K.
Swain, Chas. A.
CARTERET—Spitz, Otto
CEDARVILLE—Danzonbaker, J. L.
CHATHAM—Hynes, Julia M. (Slate & Comp.)
CLINTON—Butler, W. G.
COLLINSWOOD—Albertson, Chas. R.
CRANFORD—Doyle, John
DOVER—Bennett, S. R.
Searling, W. W. (Slate)
Swackhammer, P. W.
EAST ORANGE—Blair, Saml. J. (Slate), 27
Ashland av
Harrison & Walker, 341 Main
Van Duyn, Ellsworth (Slate), 109 Dodd
EGG HARBOR CITY—Hofmann, V. P.
Woerner, Albert
ELIZABETH—Brucklacher Bros., 1165 Eliza-
Dederick, James W., 115 Fulton beth av
Elizabeth Cornice Works, 27 S Union
Elizabeth Roofing Co., 148 B'way
Hadden, Elias W., 1177 E Grand
Messing, George, 1009 E Grand
Miller, F. Stanley, 120 1st
Walker, W. J., 5 Washington av
ELMER—Barber, L. R.
Wentzell, Geo. A.
ENGLEWOOD—Dubois, Chas. L.
Hickey & Baker
FLEMINGTON—Kline, Jas. A.
Weiler, Chas. V.
FREEHOLD—Denise & Buck
De Roche's, Jno. L. Son (Slate)
White, Alonzo
GLOUCESTER CITY—Batten, L. C.
Hannold, Samuel
Klosterman, John M.
Oakes, James J.
HACKENSACK—Cleveland, E. M.
Van Orden, C.
HACKETTSTOWN—Osmun, A.
Titus, Frank P.
HADDONFIELD—Bennett & Dreyer
Eisele & Manning
HAMBURG—Linn, Jno., Jr.
HAMMONTON—Baker, Wm.
HARDINGVILLE—Boyce, Samuel W.
HARRISON—(See Newark)
HIGHTSTOWN—Skillman, A. T. (Gravel &
Iron)
HOBOKEN—Dorsett, T. W., 1113 Clinton
Haensei, Herman, 307 2d
Hansen, Arnold C., 152 4th
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Salminl, Manuel F., 739 Bloomfield
Schroeder, B., 60 6th
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HOPE—Bryan, O. E.
JAMESBURG—Jennings, Frank (Slate)

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Edelstein, Max, 324 Newark av
Fichtt & Howley, 391 Ocean av
Funk, Frank C., 439 Grove
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Heinzmann, Fred'k, 578 Pavonia av
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Holbrook & Thompson Roofing Co., 1
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Johnson & Brooks, 640 Communipaw av
Keenan, Luke, 679 Montgomery
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Schreck & Waeltz, 27 Hague
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Schufflebotham, Henry, 233 Fairmount av
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Sproul, Jos. A., 301 Monmouth
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Uhl, Philip, 153 Monticello av
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Walsh, Dennis F., 535 Jersey av
Weigel, Joseph L., 155 Neptune av
Wimmer, Jacob, 165 New York av
KEARNY—(See Arlington)
LAKEWOOD—Davidson, J. F.
Stephenson, J. F.
Turner, John N.
LONG BRANCH—Clark, Jno., Jr.
Smock, Howard
Warwick, Wm. R., Jr. (Slate & Metal)
MADISON—Allen, Geo. A. (Slate)
Burnet, Jas. E.
MANASQUAN—Chapman, John H.
Marks, Robert A.
MATAWAN—Geran, O. T. & Son
MERCHANTVILLE—Fisher, Geo. A.
Miles, Wm.
MILLBURN—Bailey, F. S.
MILLVILLE—Brandriff, A., Jr.
Gray, H. A.
MONTCLAIR—Crane, I. Seymour
Harkins, John J.
Heller, P. J.
Neilson, Gnstave E.
MOORESTOWN—Measy, F. A.
Worrell, E. C. Co.
MORRISTOWN—Byram, W. G.
Kay, Wm. J. (Slate & Metal).
Tompkins & Welsh
MOUNT HOLLY—Brannan Co.
Stead, Elwood
Tomlinson, L. A.
Worrell, Geo. D.
NEWARK—Allwood, J. R. & Son (Slate,
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American Asphalt Met Roof Co. (Slate),
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Drummond, W. H., Co., 60 Lafayette
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Elln, David M., 16 Avon
Endlich, Henry, 149 Bloomfield av
Engelberger, F. & W. V., Co., 159 Jelliff av

Faas, Frederick J., 930 S. Orange av
Freund Roofing Co., 40 Franklin
Fuerst, Frank, 722 Bergen
Gamsu, Max, 62 Broome
Geiser, Theodore, & Sons (Gravel, Felt, etc.), 248 Plane

Gordon, S. W., & Co., 635 Warren
Graham, David, 500 S. Orange av
Griglett, Robt., 16 Gray
Groel, Henry F. & Son, 54 Belmont
Grohmann & McDonald, 282 N. 6th
Hammond, Theo. C., 13 Ferry
Hanley, Jas. F. Co., 231 Ferry
Herron, Philip T., 48 Sussex av
Hetzl, John G. (est. of), (Slate, Felt, Cement & Gravel), 67 Malne

Holliday, Alfred E., 415 Halsey
Hutchison, James C., 135 Bloomfield av
Jacobi, Wm., 100 New
Kelley, Thos. F., 19 Parkhurst
Koether, Rudolph A., 17 Court
Kolb, Chas. H., 338 Bank
Lacmann Bros., 198 Ferry
Lalbe, Jacob, & Son, 56 S. Orange av
Leonard, Edson B., 14 Lombardy
Lynn, Hugh, 99 Belleville av
Lutz, Elmer, 89 New

McGulre, James C., 340 Plane
Macknet & Doremus (Asbestos), 796
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Marshall, Wm. C., 249 Mt. Prospect av
Merkel, Fred P., 533 Central av
Newark Cornice & Skylight Works, 9 17th av

Pitts, Charles L., Co., 55 E. Park
Rau, Jacob, Jr., 43 W. Kinney
Rittersbacher Bros., 36 S. Orange av
Robson, Frederick W., 16 Van Wagenen
Robinson, J. A., 87 Madison
Sandford, Thos. A., 54 Clary
Schmidt, Ralph B., Co., 62 Ann
Silver Roofing Co., 748 S. 14th
Sippel, Theodore A., 205 McWhorter
Smith, Luman (Tar, Felt & Gravel), Oliver & Mulberry

Spatcher, Wm., 121 Union
Stadelhofer, Max, 232 Orange
Steinberg, Jacob, 229 Belmont av
Steiner, Emil E., 58 Union
Stickel, Geo., 101 Union
Stone, Chas. H., 110 Thomas
Storms & Co., 128 S. 14th
Strebinger, Chas., Sons, 412 Morris av
Struening, A., & W., 431 S. 6th
Sturn, F. J., Co., 900 Broad
Taaffe, A., & Co., 94 Plane

Thompson, John, 371 Washington av
Thrush & McMillan, 108½ Roseville av
Turner, Chauncey N., 28 Belleville av
Virtue, Wm. E., 59 Pennsylvania av
Wagner's, Adam, Sons, 176 Ferry
Ward, Chas., 308½ Broad
Welthauf, Frederick, 408 Avon av
Wertz, Alfred H., 124 S. 13th
Wolf, W. D., & Co., 592 Orange
Wolstencroft, T. W., 7 Summer av
Wuner, Edward M., 312 Elm
Zeitler, Robert, 190 Hillside av
Zeliff, Winslow, 350 Belleville av
Zimmermann Plumbing & Heating Co., 291 Market

NEW BRUNSWICK—Barton, John W.
Bergen, Cornelius J. (Slate) (Slate)
Huston, Wm. J. (Slate, etc.)

McFadden, Michael
Price's, H. M. Sons, 249 Burnet
Smalley, Wm., Jr., & Bro., 33 Albany
NUTLEY—Faith, E. E.
Hayes, Thos.

ORANGE—Hindle & Williams, 295 Main
Myers, Wm., 113 Centre

PASSAIC—Falstrom & Tonquist Co.
Hublinger, Chas.
Tonquist Co.

PATERSON—Baird, Jno. (Slate, Tile & Metal), 79 Mill

Beaumont, John & Sons, 53 Market
Commonwealth Roofing Co., 184 Railroad av
Mawhinney, John, 60 Jasper
Quinn Bros. (Slate & Metal), 9 Fair
Rogers, Andrew J. Co. (Slate & Metal), 90 B'way

Rutt Bros. (Slate, Slag & Gravel), E 27th c
Van Houten, W. T., 43 River
Whritenour, Geo. P., 20 Hamburg av
Woods, Andrew, 360 Main

PAULSBORO—Furry, B. Frank
Roberts, Seth

PEMBERTON—Wells & Jones

PENN GROVE—Dalbow, Jacob K.

PERTH AMBOY—Kelly & McAlinden Co.
Seel, Chas. (Slate)

PHILLIPSBURG—Baty, Philip

Folk, J. H.
Harmes, Wm. H.
La Barre, Aaron

PLAINFIELD—Graves, Charles C., 819 S 2d
Griffin, A. M., 119 E Front
Maier, Alex. G.

POMPTON—Roome, Chas. P.

PRINCETON—Stryker, A. Y.

Worrell, Shinn & Co.

RAHWAY—Marsh, Jno. J., 137 Main

Tombs & Roarke, 28 Main

RARITAN—Wyckoff, Jas. C. (General)

RED BANK—Patterson, Jos. C.

Sabbath & White

Sutton, Jno.

RIDGWOOD—Banta-Owens Plumbing Co.

Moore, W. H.

Morgan, Wm. P.

RIVERSIDE—Orfe, G. J. & Son

RIVERTON—Lynch, Wm. B.

Worrell, Harry C. (Slate & Metal)

ROCKAWAY—Rockaway Hardware & Stove Co.

RUTHERFORD—Black, Wm. & Co.

SALEM—Casper, Chas. W.

Guest, C. B.

Righter, J. C.

SCOTCH PLAINS—Jahn's, Robert Sons

SOMERVILLE—Mundy, T. C.

Sargeant Bros. (Slate)

SOUTH AMBOY—Carberry, Jas.

SOUTH ORANGE—Kitchell, J. L. & Son

SWEDESBORO—Reed, J. M.

Sparks, H. H.

TOMS RIVER—Brandt, Amos A.

Roberts, Thos.

Van Nostrand, E. S.

TRENTON—Arundale, Merrick, 442 N Clinton av

Bennett, David T.

Crossley & Dutterly

Doerfler, Geo., 28 Cummings av

Farrell Bros., 109 E Hanover

Fell, Henry R. Co. (Slate, Tile & Slag)

Olinsky, Morris, 63 Union

Pbilkill, Mahlon, 126 Allen

Purvis, G. H., 319 S Warren

Royle, Elmer E., 14 Lincoln av

Rugaber, Reinhart, 205 Cleveland av

Selger, Morris, 23 E Front

Skirm, A. A. & Son, Broad & Perry

Smith, G. E., 360 S Broad

Street, S. F., 2 Hampton

Tuesday, F. S., 329 Liberty

Thesday, W. H.

Voorhees, Elmer E., 462 W Hanover

Voorhees, Geo. D. & Sons, 181 Pennington av

Willever, Frank C., 1019 Chestnut av

VINELAND—Austin & Turner

Bagg, W. L.

Himes & Barreta

Read, Jno. H.

WASHINGTON—Flint & Hall

Johnston, Jas. H.

WEEHAWKEN—Hoyer, Chas.

WESTFIELD—Ferris, Mahlon H.

WEST HOBOKEN—Gutschmidt, Wm. H., 810 John

Poeschel, Oscar, 524 Ann

Poeschel, Osmar, 614 Spring

Sutter, Louis, Clinton av & Courtland

Werner, William

WEST NEW YORK—Hildebrandt, Jno. A.

Merkel, Sylvester

WOODBIDGE—Humphrey, Robert
Moore's, E. F. Sons
WOODBURY—Kleinhanz, John V.
Sampson, Chas. E.
WOODSTOWN—Lippincott & Hunt

NEW MEXICO.

LAS VEGAS—Patty, S.
Vogt & Lewis

NEW YORK.

ALBANY—Ackroyd, James & Sons (Comp., Slate, Metal & Tile), 966 B'way

Brilt, John J., 142 Central av
Campbell, Chas. C., 82 Washington
Delehanty's, M. Son, 26 Green
Eglinton, Sidney J., 125 Beaver
Flitzgerald, Jno. L., 22 Beaver
Gersbach & Schafer, 17 Central av
Gillan, Hugh, Jr., 298 Sheridan av
Goetz, Edward (Slate & Metal), 211 S Pearl
Gorman, Jas. J., 14 Norton
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Hood, W. R., 115 Hamilton
Kerwin, T. E., 34 Howard
Kieley & Stahl, 10 Green
Macnee & Rabe (Sparham, Slate, Metal & Gravel), 659 B'way

Rossner & Son, 284 Madison av
Schiller, John, 49 Livingston av
Sheehan, Joseph F., 125 Madison av
Walsh's, Jas. D., Sons (Slate, Metal, Slag & Gravel), 40 Sheridan av

ALBION—Blott, Alfred

Carter, William E.

Waterman, G. M.

ALDEN—Patrell, W. R.

ALEXANDRIA BAY—Hartman, Henry

Thompson, W. H. & Son

ALTAMONT—Manchester, A. T.

Tabor, Chas. E.

AMENIA—Fry, B. H.

AMITYVILLE—Cort, Geo. W., Jr.

AMSTERDAM—De Graff, I. J.

Denison, J. L. & Co.

Jones, B. P. (Slate)

Kaiser & Freydenborg

Larabee, J. E., 5 Market

ANGELICA—Horner, S. G.

AUBURN—Armstrong, Charles, L. & Bro.

Everts Hardware Co.

Herron, P. M. Hardware Co.

Smith & Pearson, 102 Genesee

BABYLON—Ketcham, W. P.

Oehlmeier, Sebastian

BAINBRIDGE—Barlow & Clark

BALDWINVILLE—Baker Bros.

BALLSTON SPA—Armer, Fred

Tracy Bros.

BATAVIA—Dawson, W. E. (Slate & Comp.)

Russell & Palmer

BATH—Brownell Co.

Gould & Nowien

Peck, G. W. Co.

Sutherland, Washington

BAY SHORE—Vail, C. W.

BEDFORD—Tallman, H. J.

BERLIN—Lewis, W. H. & Son

BETHEL—Gabriel, Geo. D., Jr.

Sutter, Wm. E.

BINGHAMTON—Christie, Walter (Slate), 77 State

Crane & Lockwood, 12 Court

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O'Neill, Mattbew

Sullivan, Grant & Co.

White, A. C. & Son

Young, John J.

BREWSTER—Avery, Silas O.

Smith, W. E.

BRIDGEHAMPTON—Sanford, J. A. & Son

BRIDGEPORT—Draper, Horace V.

BROCKPORT—Brennan & Adams

Hinman & Fowler

BROOKFIELD—Stillman, J. T. & Son

BROOKLYN—(See New York City, Borough of Brooklyn)

BUFFALO—Armbrust's, Jno. Sons, 789 Genesee

Baird, Fred. H., 140 Erie

Baner, Leonard, 105 Roeherer av

Bauer's, Chas. Sons, 159 William

Berkhousen, Geo. H., 272 Forest av

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 Farley, John
 Fisher, Martin & Sons, 75 W. Chippewa
 Fix, Chas. J., 808 Main
 Freme Roofing Co. (Tar), 411 Grant

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Glinski, Anton, 1097 B'way
 Grant, Gilbert, 315 Michigan av
 Grove Roofing Co. (Comp. & Gravel), 121 W Eagle

Gruber, Rupert & Co., 541 Sherman
 Guenther, Theo., 1285 Jefferson
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 Hauck, Adam & Sons (Metal), 505 Main
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 Henrich, Geo. W., 1352 Jefferson
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 Keiser, C. G. (Metal, Copper & Sheet Iron), 400 Michigan

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 Kener, Edw., Jr., 400 Connecticut
 Klendl, Robert J., 728 Michigan
 Kirkpatrick, John, 364 Auburn av
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 Schell, Chas. F., 610 B'way
 Schnitz, C. J., 1328 Jefferson
 Shuart, A. E. (Metal, etc.), 135 Hoyt
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 Wick, Martin, 586 B'way
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BYRON—Boyce, J. A.
 CALEDONIA—Humphrey, O. M.
 CALLICOON DEPOT—Doetsch, H.
 CAMBRIDGE—Maxwell, Gilbert
 Watkins, Robt. H.
 CAMPBELL HALL—Howell, Chas. B.
 CANAJOHARIE—Scharff, Chas. W.
 Wheeler, W. R. & Co.
 CANANDAIGUA—Kelly, Jno. H.
 Lisk Mfg. Co.
 CANASTOTA—Bemiss & Co.
 Zapf & Co.
 CANISTEO—Laine, Orton O.
 CANTON—Howe Bros.
 Jamieson Bros.
 Tallman & Howe
 CARTHAGE—Arnot, Wm.
 Chaufy, R. & R. C.
 Strickland, J. E. & Son
 CASTILE—Cole & Andrus
 CATSKILL—Conklin, Charles
 Day & Holt
 Jones, H. T. & Son
 CATTARAUGUS—Jewell, J. H. & Sons
 CEDARHURST—Haller, Paul
 CENTRAL BRIDGE—Wessell, John W.
 CHAPPAQUA—Tompkins, Amelia
 CHARLOTTE—Hamlin, Wm.
 CHARLTON—Smith, Norman & Son
 CHATHAM—Welch, J. F.
 CHAUMONT—George Bros.
 CHERRY VALLEY—Bierman, Richard
 Fox & Brien (Slate)

CHESTER—Conklin, F. L.
 Thompson, J. T.
 CHESTERTOWN—Vetter, Fred'k
 CHITTENANGO—Gay, H. L.
 CLIFTON SPRINGS—Judd & Leland Mfg. Co.
 CLINTON—Allen, H. J. (Tinware Mfrs.)
 Clark, Jas.
 CLYDE—Bliss, Geo. S.
 CLYMER—Hazen & Havercamp
 COBLESKILL—Stilson, A. G. & Son (Slate & Metal)
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 COHOES—Clark, Jno., 24 Willow
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 Loop, W. H., 44 Van Rensselaer
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 Murray, Mrs. M. A. & Son
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 COOPERSTOWN—McEwan, Wm. L.
 COPENHAGEN—McCuen, R. G.
 CORFU—Palmer, C. O.
 CORNING—Corning Mfg. Co. (Slate & Metal)
 Williams, A. F.
 CORNWALL LANDING—Taft-Howell Co.
 CORNWALL ON THE HUDSON—Wood, T. J.
 CORTLAND—Bennett Hardware Co.
 Hollister, Hdw. & Plumbing Co.
 COXSACKIE—Church, W. R.
 CROGHAN—Tanzer, Chas. L.
 CROWN POINT—Hnestis, F. E.
 CUBA—Olive & Warren
 Sisson & Smalley
 DANKS—Bailey, J. J. & Son
 DELHI—Graham, H. S.
 DEPOSIT—Deposit Hardware Co.
 Minor, A. P. & Son
 DESPATCH—Cross, Geo.
 DOBBS FERRY—Hammill, M. (Est. of)
 DOLGEVILLE—Faville, W. H.
 DRYDEN—Bartholomew, D. P.
 DUNDEE—Beekman, Cleary & Van Lew
 Bigelow, C. J. & Co.
 DUNKIRK—Allenbrand, E. (Est. of)
 Ailing & Fields Hardware Co.
 Bloss, Clark Co.
 EAST HAMPTON—Grimshaw, S. C.
 Northrop, O. H.
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 ELLENVILLE—Rose & Childs
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 ELMIRA—Barker, Rose & Clinton Co., 109 Lake
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 EVANS MILLS—Hungerford, E. O.
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 FALCONER—Asker, Leonard
 FAR ROCKAWAY—(See New York City, Borough of Queens)
 FAYETTEVILLE—Mott Bros.
 FISHKILL ON THE HUDSON—Conner, C. H.
 Griffin & Howe
 Yates, J. H.
 FLUSHING—(See New York City, Borough of Queens)
 FORT ANN—Lewis, E. A.
 FORT EDWARD—Bowtell, C. W.
 Newton & Hill
 FORT PLAIN—Linney, Wm. T.
 Stewart & Bergen Co. (Slate)
 Williams & Tanner Co.
 FRANKLINVILLE—Salisbury & Son
 FREDONIA—Case & Zahm
 Gould & Wells
 Scott, F. W.
 Slaght, C. S.
 FULTON—Johnston, Geo. (Steel), 90 Glen
 FULTONVILLE—Brace & Richtmyer
 GARDINER—Miller, W. O.
 GENESEO—Stevens & Vallance (Gravel & Asphalt)
 GENEVA—Dorchester & Rose (Slate & Metal)
 Phillips, Amos H.
 Wilson, Wm.
 GLEN COVE—Crandall, Fred. A. (Slate, etc.)
 Seaman, S. J. (Slate)
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 Batcheller, E. S. & Co.
 Bramer, John L.
 Graff, Isaac D.
 Hanson, Ahram

Hanson, Andrew & Son
 Peek & Cooper
 Shinville, H. G.
 Slaght, E. T.
 GOSHEN—Goshen Hdw. Co.
 Kniffen & Hopkins
 GOUVERNEUR—Katzman, A.
 GOWANDA—Kammerer, Jno.
 GRANVILLE—Henry, Geo. W.
 Nelson, D. D. & Co.
 Sullivan, P. J.
 GREAT NECK—Best & Sutherland
 GREENE—Beals, F. H.
 GREEN ISLAND—(See Troy)
 GREENPORT—Corwin, Aug.
 Gehreng, John
 Walters, F. L.
 GREENWICH—Crandall, E. M.
 Parker & Cleveland
 GRIFFIN CORNERS—Angle, Edgar F.
 Todd, A. H.
 HAMBURG—Fish & Kronenberg
 HAMMONDSPOUT—Warren, G. F.
 HANCOCK—Wheeler, Samuel S. N. & Sons
 HARRISVILLE—Crandall, H. D.
 HARTFORD—Palmer, J. & Son
 HASTINGS UPON HUDSON—Fallon, Martin A.
 Will, Frank J.
 HAVERSTRAW—Bedell Bros. (Slate)
 Demarest, Alfred
 Springsteen, Daniel
 Tremper, Jas. E.
 HEMPSTEAD—Carman, H. V. & Co.
 Kelly, M. & Son, 98 Main
 Seifert, George
 HENDERSON—Thompson, Payson F.
 HERKIMER—Metzger, Wm. F.
 Palmer, C. W. & Co.
 Pelton Bros.
 HEUVELTON—Popple, Geo. N.
 HICKSVILLE—De St. Leger, J.
 Quarittus, John
 HIGHLAND—Feeter, J. W. (Slate & Metal)
 HILTON—Taher, Edson
 HOBART—Carroll, A. S.
 HOLLEY—Edwards, Ira
 Payne & Trimble
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 HONEOYE FALLS—Pride, Jas. M. & Son
 HOOSICK FALLS—Abel & Brown
 Dorr, Chas. M.
 HORNELL—McGuire, C. F.
 Roberts, Wallace
 Rose, J. R. & Son
 Shaut, M. J.
 HUDSON—Benedict, Russel & Son
 Davis, E. H., 11 N 6th
 Macy, Frank A., 612 Warren
 Rogerson, Jas. C. & Co.
 HUNTINGTON—Hendrickson, A. P.
 Stoyke, Wm. H.
 IRVINGTON—Ackerman, Albert
 Palmer, E. J.
 ISLIP—Field, John B.
 Williams, Wm. E.
 ITHACA—Barr Bros.
 Freeman, C. W. & Co.
 Klenke & Drew
 Rumsey, C. J. & Co.
 JAMAICA—(See New York City, Borough of Queens)
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 Lloyd, E. D.
 Marsh Bros.
 Rosencrantz, Eloy & Co.
 Venhlow, F. A.
 JOHNSTOWN—Lynes, Wesley
 Randall, Frank
 Rice, John C.
 Van Nest & Goodwill
 KATONAH—Kellogg & Mead
 Tuttle, J. A. (Slate)
 KEESEVILLE—Callahan Bros.
 Sampson, Albert S.
 KINGSTON—Dobbs, Sammel (Slate), 20 Ann
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 Thompson, Frank S., 43 N Front
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 LE ROY—Taft, Fred L. B., 10 Main
 LESTERSHIRE—Becker, C. D.
 LIBERTY—Monroe Hardware Co.
 LINDENHURST—Ramsauer, Henry, Sr.
 LITTLE FALLS—Gibbs, Geo. D.
 Lamh, David T.
 Wilcox, W. H.
 LOCKPORT—Burtis, Arthur L., 30 Evans
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LOWVILLE—Fowler Bros. Bor. of Queens)
 Stoddard, M. A.
LUZERNE—Kinnear, Wm. J.
LYONS—Hartman, W. T.
 Marshall & Noble
 Nusbickel, Fredk.
MALONE—Roby, Charles N.
 Tulley, Jas. H.
 Thompson, H. D. & Co.
MAMORONECK—Gedney, H. J.
 Koffman, Henry
 Leonard, Walter
MANNVILLE—Huggins & Beebe
MARATHON—Myers, Chas. S.
 Seamans Bros.
MARCELLUS—Mattison & Son
MARION—West, A. A.
MARLBORO—Hughes, T. H.
MASSENA—Hutchins, James
MATTEAWAN—Aisdorf, Leander
 Rogers, D. C.
MATTITUCK—Wickham, J. W.
MAYVILLE—Slxbey, H. & Sons
MECHANICSVILLE—Allen, William H.
 Baker, S. C.
 Safford, Henry D.
MEDINA—Acer & Whedon
 Hanlon Bros.
MEXICO—Norton, W. H.
MIDDLEBURG—Sullivan, F. A.
MIDDLE GRANVILLE—Rogers, A. N.
MIDDLEPORT—French, Edgar B.
 Sherwood, A. G.
MIDDLETOWN—Brink & Clark, 28 North
 Mushbach, Cuno (Slate & Metal)
 Swalm, Geo. A. & Son Co., 18 North
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MILLBROOK—Merritt & Colville
 Pizle, B. J.
 Woolheater, Benj.
MILLERTON—Paine, J. R. & Son
MILTON—Goehrenger, Wm. A.
MOHAWK—Adams & Co.
 Richardson, J. G.
MONROE—Knight, C. S.
 Smith & Strebel
MONTGOMERY—Brown Bros.
MONTICELLO—Purdy & Demerest
 Smith, Warren
 Tymeson, J. F.
MORAVIA—Small, F. & Sons
MOUNT KISCO—Gorham, David F.
MOUNT MORRIS—Osborn, E. B.
 Russell & Coultrey
 Walker, J. O.
MOUNT VERNON—Hoffman, K., 40 N Bond
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 Ryan, James H.
 Wilkin, H. C.
NAPLES—Bolles Hardware Co.
NARROWSBURG—Anderson, Jno. S.
NASSAU—Calkins, Chas. H.
NATURAL BRIDGE—Montondo, J. N.
NEWARK—Bobrowsky, Herman
NEW BERLIN—Haistead, H. J.
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NEW ROCHELLE—McGovern & John
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NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Abern, Andrew W., 24th av, nr
 Albany Roofing Co., 1530 Fulton Bath
 Anderson, Geo., 35 Reeve pl
 Anderson, Jno., 202 Sackett
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 Ziemer, Adolph, 101 Berry
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Boroughs of Manhattan & Bronx.

NEW YORK—Abbott's, M. Sons, 137 8th av
 & 638 Columbus av

Ackerman, John W., 413 W 24th
 Acme Roofing Co. (Comp.), 156 5th av
 Aeolian Plastic Slate Roofing Co. (Comp.
 & Fireproof Plastic Slate), 163 W 23d
 Albrecht, Max, 1681 Lexington av
 Altholz, Kalman, 85 Attorney
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 Carber & Carber, 1414 Wmsbridge rd
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CORONA—Glickman, M. & Sons

Glickman, M. & Sons

Hartman, Charles & Son

EVERGREEN—Weber, Paul

TARRYTOWN—Curtiss, C. H. & Co.

Kuntz, H. I.

TICONDEROGA—Bascom, D. C.

Brust, F. L.

Lamson, W. H. & Son

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Woelfel, Louis
METROPOLITAN—Brandt, E.
Grimm, Louis
Seitz, Louis
OZONE PARK—Lissner, A.
RICHMOND HILL—Banks, Rich. M.
Barkenthien, Gustave A.
Barkenthien, Richard
Heinstadt, John
Menz, Felix
WHITESTONE—Blum, Samnel
WINSTON JUNCTION—Laboda, Paul
WOODSIDE—Lievendag, Adolph

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FORT WADSWORTH—Zorn, Adolph
GREAT KILLS—Brower, H. S.
MARINER HARBOR—Lorenzen, Peter E.
NEW BRIGHTON—Barnes, Wm.
Everitt, Geo. Wm.
Hediger, Rudolph
NEW DORP—Schlueter, Louis C.
PORT RICHMOND—Kauscher, Frederick
ROSEBANK—Sinnott, Thos. F.
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TOMPKINSVILLE—Snyder, James
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TOTTENVILLE—Guyon, H. A.
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Henderson, R. K.
Perlet, Chas. (Slate)

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NEW YORK MILLS—Hastings, M. E. & Son
NIAGARA FALLS—Burleson Hardware Co.
Campbell, George H.
Colgan, Jos.
Leggett, Albert R.
Oliver, F. W. Co. (Slate & Comp.)
Snyder-Gillett Contracting Co.
Watson, J. & Son
NORTH TONAWANDA—Knapp-Cramer Hard-
Tuck, R. L. Co. ware Co.
NORTHVILLE—Allen & Palmer
NORWICH—Burchard Bros.
Latbam, C. H.
NYACK—Ernst & Bro.
Gates, George
Wyman, George R. & Son
OGDENSBURG—Barr, Jno.
Bowman, Jas. S.
Britton, W. D.
Hackett, P. Hdw. Co.
Rapin, Frank & Co. (Est. of)
Skelth, Thos.
Skelly, Thos. F.
OLEAN—Pierce, O. W.
ONEIDA—Harris, Wales & Co.
Lype, Norman
Millspaugh, W. H.
Tooker, O. P.
ONEONTA—Rowell, Geo. W. (Slate & Metal)
Stevens & Baker
Townsend, L. H. & C. D.
ORISKANY—Harrington, P. J.
OSSINING—Barlow & Co.
Khuns, Edward
Ramage, Thomas
Williams, Cornelius P.
Young, A. L.
OSWEGO—Blair, L. F.
Keefe Bros.
Lieb & Son
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OWEGO—Adams, H. B. & Sons
Houk, J. S.
Stanbrough, J. B.
OXFORD—Burchard Bros.
OYSTER BAY—Baldwin, Thos. E. (Slate, etc)
Hutchinson, E. K. (Slate)
PARISH—Church, F. A.

PATCHOGUE—Gordon Bros.
Overton, L. M.
PAUL SMITHS—Smith, Paul & Sons
PAWLING—Gibney, Geo. W.
Merwin, F. S.
PEEKSKILL—Durrin Bros.
Finnigan, James J.
Foster & Son
Jordan, Warren
Smith, Jno., Jr. (Slate, Gravel & Tar)
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Hogan, Michael
PORT JEFFERSON—Davis & Co. (Slate &
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Leonard, F. J.
Smith, G. H. (Slate & Metal)
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Stilerly, E. & R., 440 Main, E
Strauss, Leopold, 533 Joseph av

Turner, T., 381 State
Warren Chemical & Mfg. Co., 49 West av
Young & Harrington, 40 Cortlandt
ROCKVILLE CENTER—Cock, W. R.
McCarten, E. E.
Pettit, Frank
ROME—Couley, Jas.
McLean, Jas. H.
Relyea & Rockwood
Russell & Waller
Snerman, H. B.
Smith, Geo. S.
Towusend's, J. Sons
Tyler, C. Edwin
RONDOUT—(See Kingston.)
ROSENDALE—Bannon, L. F. Plumbing, Heat-
ing & Contracting Co.
ROSLYN—Burrowes, Robert (Slate & Metal)
Titus, Willett (Slate & Metal)
ROUSES POINT—Chilton & Jones
SAG HARBOR—Montcalm, C. H.
Youngs, D. E.
ST. JOHNSVILLE—McRae & Son
SALAMANCA—Andrews, J. A. & Son
McCann, Hubbell & Co.
SALEM—Baker, G. W. & Son
SALISBURY MILLS—Dusenbury, Z. D. W.
SANDY CREEK—Colony, O. W.
Jones, L. J.
SANDY HILL—Parks, S. H.
Sherrill Hardware & Plumbing Co.
SARANAC LAKE—Adirondack Hdw. Co.
SARATOGA SPRINGS—Towne Hardware Co.,
430 B'way
SAUGERTIES—Hildebrandt, F. A.
Lamb, Danfel & Son
Smith, Philip C.
SAYVILLE—Jedicka Bros.
SCHAGHTICOKE—Waldron, Wm.
SCHENECTADY—Burtis, Albert B. & Son,
Case, L. & Co., 414 Warren 152 Jay
Clute, W. S., 16 Central Arcade
Dakin, John H., 512 Liberty
McDonald, Benj. J.
MacGregor, Thos. F. (Slate & Metal), 135
Marsh & Marsh Jay
Peters & Borden, 224 State
Vrooman's, J. V. Sons, 138 State
SCUYLERVILLE—McRae, G. S. & Co.
Washburn & Leeds
SEA CLIFF—Koop, Juo. & Sons
SENECA FALLS—Story & Strong
Waller, George A.
SHARON SPRINGS—Klinkhart, Geo.
SHELTER ISLAND HEIGHTS—Harris, O. S.
(Slate, Comp., etc.)
SHERMAN—Sperry Hardware Co.
SIDNEY—Davis, Jas. E.
SILVER CREEK—Shofner, Geo. H.
SINCLAIRVILLE—Reed, R. & Co.
SKANEATELES—Bench, J. & Son
Shotwell, Tucker & McGinn Co.
SOUTHAMPTON—Cameron, A.
Hammond, E. E.
SOUTHOLD—Macomber, B. F.
SPENCERPORT—Spencer, F. W.
SPRING VALLEY—Ruppel Bros.
STAMFORD—Kelly, E. L.
Lawrence, H. C.
Maynard & Elliott
STAPLETON—(See New York City, Borough of
Richmond)
STILLWATER—Haight, Silas
Hunter, E. B.
STONY POINT—Springsteen, D. & W.
SUFFERN—Beers, Geo. A.
SYRACUSE—Blant, Arthur C., 117 Oak
Blant, J. A., 227 James
Bradford & Deruchle, 439 E Water
Carroll, Patrick, 405 S State
Cashman & McCarthy (Slate, Metal & Tile),
372 W Fayette
Central City Roofing Co. (Comp. & Slate),
430 Canal
Curran, Jas. (Slate & Metal), 213
Gooley, W. F., 1911 W Fayette Franklin
Heaphy, Dennis J., 133 W Water
Heftle, Jno., 1112 S Geddes
Kelley, Edmund, 1701 W Lafayette
Lacy, Joseph, 103 N Warren
Lapham, Jno., 235 South av
Lyons, R. C., 706 Grape
McCarthy, Jno. J., 511 S West
Paulus, Philip, 319 N Salina
Rolle, August, 720 Butternut
Schemel, Geo. B., 425 W Fayette
Schreyer, Jno., 1110 Butternut
Simmons, Theodore, 120 S State
Talbot, Thos. & Son (Slate, Tile, Asphalt
Vuillemot Bros. & Gravel), 240 W Water
Wallace, E. F., 1010 S State
Welch, Jno., 616 Burnet av
Zimmerman, Julius, 16 New Butternut
TOMPKINSVILLE—(See New York City, Bor-
ough of Richmond)

TONAWANDA—Ernst, A. H.
Koenig, H. B. & Co.
Krauss, C. F.
National Roofing Co. (All Kinds)

TOTTENVILLE—(See New York City, Borough of Richmond)

TROY—Catlin, Geo. O. (Asphalt, Felt, Gravel & Slag), 86 Congress
Cole, Geo. H., & Son, 403 River
Connors, James T., 506 2d
Doherty, Michael, 25 Ingalls av
Harper, Thos. K., 565 Congress
Hawkins, Jno. E., & Son, 14 12th, Lans
Joyce, Humphrey, 342 Congress
Kennedy, James, 416 River
Kennedy, James F., 508 10th
Knaupp, Jno. F. (Slate & Metal), 672
Lehmann, Adolph, 225 River
Loeble, Chas. A., 412 5th av, Lans.
Loeble, Wm. (Est of), 422 River
Lyman, James, 352 2nd
Manogue, Edward Co. (Slate, Gravel, Metal & Asbestos), ft of Grand
Miller, Jacob, 146 4th
O'Connor, John, 328 2d
Powers, J. J., 310 2d
Sasse, Robert W., 842 River
Sherman, Geo. S., cor 3d & Division
Sherman, Wm. A., 309 River
Sweet-Packard Co., 96 Congress
Wheeler, Mrs. Eliza, 414½ River
Whitaker, James A., 11 19th, Lans.
Yetto, Edward A., 3103 6th av
Young & Co., 618 2d av, Lans.

TUCKAHOE—Rubly, Wm.

TURNER—Sturr, Daniel

TUXEDO PARK—Secor, Chas. H.

UTICA—Anglebow, Henry, 28 Belmont av
Coffey, John J., 95 Taylor av
Gelsbach, Mrs. Caroline
Goodenow, A. L., 54 John
Henry & Williams, 130 Court
Jacobs, S. F., 117 Court
Jones, Wm. E. & Sons, 5 Union
McLean & Co., 131 South
Metal Roofing & Cornice Co. (Slate, Metal & Gravel), 71 Main

Parker, Edw. W., 26 Pearl
Shaughnessy Bros., 143 Genesee
Stuber, Jacob, 60 Albany
Weiss, Adam (Asphalt, etc.), 366 Seymour av
Werthman, F. T., Eagle & Elm
Wurster, John, 383 Whitesboro

VALLEY FALLS—Parker, J. W.

WALDEN—Wade, A. K.

WALWORTH—Petty, Isaac & Co.

WARRENSBURG—Hunt, John G.
Mixer, F. R.

WARWICK—Montross, A. W.
Ogden & Pelton

WASHINGTONVILLE—Hull, C. W.

WASSAIC—Williams, Wm.

WATERFORD—Carter, Chas. H.

WATERLOO—Nalios, James
Nugent & Co.
Van Riper, Theodore

WATERTOWN—Bradley, T. H. (Tar & Felt)
Spratt, Corcoran & Fuley Co.

WATERVILLE—Barr, R. M. & Son
Bourke, M. R.
McLean, W. G. & Co.

WATERVLIET—Gray, Vivian
Hamil, James, 1605 Broadway
Sexton, Samuel, 202 23d

WATKINS—Durland, L. H. Son & Co. (Slate & Metal)

WAVERLY—Mixer, E. D.

WEEDSPORT—Burritt, O. W. & Bro.
Harmon, A. B.

WELLSVILLE—Hoyt Hdw. Co.
Vincent, C. F.

WESTFIELD—Carpenter, E. F.

WEST NEW BRIGHTON—(See New York City, Borough of Richmond)

WESTPORT—Eastman, H. E.

WHITEHALL—Willard & Marshall

WHITE PLAINS—Fowler & Sellars
Quimby, G. W.
Schwaner, F. J.

WHITESTONE—(See New York City, Borough of Queens)

WILLINK—Sommer & Co.

WILLSBORO—Hudson, Wm.

WILSON—Perrigo, G. W.

WOODHAVEN—(See New York City, Borough of Queens)

WEST NEW BRIGHTON—(See New York City, Borough of Richmond)

WESTPORT—Eastman, H. E.

WHITEHALL—Willard & Marshall

WHITE PLAINS—Fowler & Sellars
Sherwood, C. P.
Quimby, G. W.
Schwaner, F. J.

WHITESTONE—(See New York City, Borough of Queens)

WILLINK—Sommer & Co.

WILLSBORO—Hudson, Wm.

WILSON—Perrigo, G. W.

WOODHAVEN—(See New York City, Borough of Queens)

WOODMERE—Baldwin, Gilbert

WORCESTER—Eitapence, Charles & Co.
Wilcox & Callender

YONKERS—Acker, D. & Co., 50 N B'way
Bailey, George A., 52 N B'way
Donnelly, James, 175 Yonkers av
Fitzgerald, D., 203 New Main
Humphrey & Bell, 40 Nepperhan
McVicar, Thos. (Slate & Metal), 30 Dock
McVicar, Wm. H. (Slate & Metal), 83 Woodworth av
Pawson, J. E., ft Wells av
Reade, Cabot S., 47 Ashburton av
Westchester Metal Works, 46 Riverdale av
Wheelock, M. R. & Son, 28 Riverdale av

NORTH CAROLINA.

ASHEVILLE—McLean, A. L.

BURLINGTON—Thomas, S. & Sons

CHARLOTTE—Garabaldi, T.
McCausland, J. N. & Co. (Slate & Metal)
Ray, G. G. & Co.
Shuman, C. F.

CONCORD—Hill, W. J.

DURHAM—Barbee, Charles E.
Lougee, W. J.
Taylor & Phipps

ELIZABETH CITY—Hill, H. O.

FAYETTEVILLE—McMillan Bros.

GOLDSBORO—Croom, C. E.
Hobbs & Pike
Slaughter, J. Co.

GREENSBORO—Bond, A. Y.
Pleasant, W. R.
Wharton, J. W.
Yates, J. F.

HENDERSON—Carter, W. T.

HIGH POINT—Gordy, McDaniel
Ward, J. R. Supply Co.

KINSTON—Isler, L. E. & Bro.
Moore, E. O.
Strickland, Clayton & Co.

MURFREESBORO—Evans & Bro.

NEWBERN—Odum, E.
Parker, S. B.

RALEIGH—Briggs, Thos. H. & Sons
Clark, M. S.
Lumsden Bros.

STATESVILLE—Frazier, T. W.
Nicholson, J. W.

WILMINGTON—Holden, H. K.
Holden, H. K.
Smith, S. L. & Son
Toler, T. S. & Son

WILSON—Dildy & Agnew
Hagan, Robert E.

WINSTON SALEM—Blum, P. W.
Brickenstein, L. B. (Slate, Metal & Gravel)
Morgan & Cuthrell

NORTH DAKOTA.

FARGO—Harrington, Hubert

GRAND FORKS—Barnes & Nuss Co.

JAMESTOWN—Scott, R. L. & Co.
Thornhill, E. B.

LISBON—Cole, J. S.

WAHPETON—Jamieson, W. W.
Schultz, O. H.

OHIO.

ADA—Riddle, J. C.

ADELPHI—Binkley, Cary L.

AKRON—Akers & Co., 1084 E Market
Akers & Harpham (Slate, Gravel & Metal), 200 E Mill
Akron Hardware & Spouting Co., 385 E Exchange
Akron Roofing Co. (Slate, Metal & Tile), 104
Akron Roofing Tile Co., E Exchange
Akron Tin & Furnace Co., 1503 S Main
Blumenstein, George
Bowers, T. A.
Corey Bros.
Dietz & Haberkost
Fowler, W. R. (Slate)
Gross, John
Harter & Millar
Kaseh Roofing Co. (Slate, Tile, Metal & Comp.)
Kidder Hardware Co.
Knapp, John G.
Lind Bros. (Slate, Felt & Metal)
May & Pieherger Co. (Metal)
Miller, Elmira E.
Neff Bros.
Pettit Bros. Hardware Co.
Popovitz, George
Pouchot, Hunsicker Co. (Slate & Metal)
Rutherford, J. & Son
Vlers Co. (Metal)

ALLIANCE—Howson & Co.
Keyes, Hugh (Slate & Metal)
Love, Casselman & Co. (Slate & Metal)
Ruhl, George W.
Stuss, M. (Slate)
Smith, C.

ASHLAND—Ambrose, Thomas B.
Marks, F. R. (Slate & Metal)
Pittinger, Jno. R.

ASHTABULA—Beldler, A. M.
Tingley, H. M.
Van Tassell Hardware Co.

ATHENS—White, F. P.
Wilson, C. B.

AUSTINBURG—McClure, J. H.

BARBERTON—Hickox, W. R. & Co.
Miller Roofing Co. (Slate, Tin & Iron)

BARNESVILLE—Anderson, W. H.
Graham, T. J.

BASIL—Weaver, Jas. M.

BATAVIA—Carter, T. D.

BELLAIRE—Kern, Andrew (Slate & Metal)
Mahaffey & Bros.
Zweig, John

BELLE CENTER—Oliphant, W. Gilbert

BELLEFONTAINE—Doll & Whitcomb
More, F. O. & Son (Slate, Metal & Comp.)
Oglesbee, E. C.

BELLEVUE—Decker, Roland B.

BELLVILLE—Dougherty, J. M.

BEREA—Curtis & Wagner
Elmore, Chas.

BERLIN—Hochstetler, E. J.

BETHEL—Davis & Hibbetts

BLANCHESTER—Hampton & Scott

BLUFFTON—Scheid, Theo. G.

BOLIVAR—Lash, D. F.

BOND HILL—Jenny, Wm. M.

BOWERSTOWN—Boor, S. B.

BOWLING GREEN—Campbell & Coiler
Golt & Son

BUCYRUS—Blair, E.
Jolly Bros. (Slate & Metal)
Picking, D. & Co. (Slate & Metal)
Walther, F. A.

CADIZ—Bryant, H. E. (Comp. & Gravel)
Lee, B. S. (Comp. & Gravel)

CAMBRIDGE—Brown, Jas. G.
Burgess Mfg. Co.
Cambridge Roofing Co. (Slate & Metal)
Hartley, W. H. & Sons (Slate & Metal)

CANAL DOVER—Brucks & Adams (Slate & Metal)
Myers Bros.
Notter, E. A.
Reeves Mfg. Co.
Schneider & Thompson

CANTON—Beard, Murry (Slate), 1817 Lawrence
Brubaker, J. H., 112 Cedar
Ruckins, W. H., 3115 W Tus.
Cappell, H. W., 1214 W 5th
Culp, T. S. (Metal)
Fife Bros. Co. (Gravel & Metal), 212 E 8th
Groner, C. O., 714 E Tus.
Grosjean, W. S., 324 W Market
Gurantz, Fred., 400 George
Keefauver, H. A., 739 Marion
Koch, Peter (Slate), 1228 Wash'n av
Lawrence, O. F. (Metal)
Mallory, R. E. (Slate & Metal), 906 Spring

Merriman, Fredk. (Slate), 1512 Willett

Merriman, W. S., 1635 John

Motz, L. S., 1729 Navaree

Peter, W. C., 907 S Market

Pfiffer & Whitmer, 210 E 5th

Piper, F. R., 136 E 7th

Reimsnyder, John A. (Slate), 1037 S Market

Reichenbaugh, U. A. (Slate), 527 Park av

Rex, Chas. A. (Metal)

Skelton, L. E. (Felt)

Taylor, Jackson, 409 N Rex

Van Dorsten & Mickley

Wilson, J. H. & Co.

Yost, L. P. D.

CARTHAGE—Knapp, Frank M.

CELINA—Feldheller & Bryson
McComb, Charles
Winters, A. A.

CHAGRIN FALLS—Lines, W. H. & Sons

CHARDON—Parks & Barker

CHICAGO—Sennett, O. F. (Slate)

CHILLICOTHE—Eberle, Jno. J.
Kellhofer, Jno. (Slate & Metal), 75 N Paint
McNellus, Wm. A. (Slate & Metal), 95 E 2d

CINCINNATI—Ahrens, Wm. F., 918 Monnd
Ammann, Albert Roofing & Cornice Co., 902 John
Andler, Adam (Slate, Metal & Tile), Highland av & Stetson

Andriot, John H., 3415 Montgomery rd

Arndt, Robt. L., 2650 Western av

Avril, Ferd. & Sons, 2871 Colerain av

Beckman, Wm., 1543 Race

Biermann, M., 3244 Jefferson av

Blum, Albert (Slate & Metal), 2837 Woodburn av
Boesch, Victor P. & Son (Slate & Metal), 2432 Eastern av
Brandis Bros. (Slate & Metal), 3109 Reading rd
Brockmann & Schuessler (Metal, Tile & Slate), 328 W 3rd
Brophy, John L. (Galvanized Iron), 25 W
Brake, Peter, 640 B'way Canal
Cincinnati Roofing Co. (Asphalt & Gravel), 220 P. O. sq
Cincinnati Roofing & Paving Co., Carlisle Bldg

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See adv. index, end of book)
Daly, Thos. W., 1703 Madison rd
Dawson, J. G., 409 Carlisle
Dearking, Fred W. & Son (Slate & Metal), 3822 Glenway av

Deck, G. H., 913 Vine
Dietz, Geo., Jr., 2708 Eastern av
Dirr, George L. & Son (Slate & Metal), 3631 Warsaw av

Duecker, Wm., 4144 Hamilton av
Ehle, Chas., 1802 Vine
Edwards Mfg. Co., Eggleston av c 5th
Emmers Cornice Co., 1007 B'way
Fahle & Dietrich, 537 Oliver
Farwick, Jno. H., 123 W Court
Fellers, Harry J., 970 E McMillan
Felix, John, 1332 Baymiller
Felix, William, 1611 Western av
Fischer, Wm. G., Stove & Range Co., 221 W 3d

Fletcher, Thos., 4044 Hamilton av
Fox, Wm. H., 2450 Gilbert av
Frank, Andrew, 900 State av
Freund, Jacob Roofing Co. (Slate, Metal & Tile), Mitchell av & B. & O. S. W. Ry.
Germann, Alex. E., 613 College
Getchell, S. D. Co. (Asphalt & Gravel), 1109 Gilbert av
Gilbert Cornice Co., 1912 Vine

GILMAN'S SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)

Gladen, Mrs. T., 637 E Pearl
Globe Paint & Roofing Co., 232 W 8th
Goodling, Michael, 1824 Race
Goosman, J. & C., 1628 Race
Greife, E. & Bro. (Slate & Metal), 1128
Grote, C. L., 2008 Madison rd Broadway
Grueninger, Louis, S E c Court & Freeman
Hader, Andreas, 3232 Harrison av
Harford, M. & Son, 314 Butler
Harkness & Towler (Asphalt, etc.), 1662 Providence

Hauck, Michael (Slate & Metal), 14 E 13th
Heatley, George, 3801 Eastern av
Herbst, H. L., 1333 Linn
Hirt Bros. (Slate & Metal), 1814 Race
Hoeltge, Fred, Jr., 1921 Gest
Howard, Franklin, 1612 Sycamore
Huelsman & Moore, 134 Opera pl
Hyde Park Roofing Co. (Slate & Metal), 2681 Madison rd

Hyndman Steel Roofing Co., 320 E 2d
Imbus, Henry, 417 W 5th
Jansen Co., 2140 Gilbert av
Kearney, James T., 940 Linn
Keller, L. E. & Co., 3811 Spring Grove
Kline, Martin, 1027 Cutter av
Klinkenberg, O. A., 3443 Reading rd
Kobmann, Charles (Slate & Metal), 1919 Central av

Kopelent, Henry (Slate & Metal), 2723 Vine
Korb, John P., 3203 Harrison av
Krummeyer, L. Co., 1501 Vine
Kuhlmann, George, 1115 Main
Kurs, Henry, 2827 Colerain av
Lalley, Michael, 216 Elm
Lemon, W. A., 947 W 8th
Leonard, Michael W., 1508 Chase av
Lindemann, Aug. E. (Slate & Metal), 2620
Loesch, Fred, 2138 Central av Vine
Loesch, W. F., 2943 Colerain av
Marcus, David, 1552 John
Meyer, Edw. & Co., 212 Wade
Miller, Frank, 705 Carr
Neabrey, John H. (Slate & Metal), 637 W
Noll, Geo. A., 1186 Harrison av Court
Opp, F. & Son, 509 W Liberty
Opp, John, 2148 W 6th
Parker, Edward, 438 E Pearl
Peal, Jacob, 933 W Liberty
Pfau Bros., 231 W 5th
Piker, Samuel, 682 W 5th

Pilger, J. S., 1507 Central av
Porter Iron Roofing & Corrugating Co., 8 E Front

Preston, Alfred, 2716 Alms pl
Queen City Exhaust & Blow Pipe Co., 1732
Reich, Joseph, 800 W 7th Central
Roseboom, J. G., 746 Betts
Pothert, Wm. & H., 1603 Main
Ruehlmann, Fred., 1414 Walnut
Salle, Adolph (Slate & Metal), 522 W 5th
Schmidt, Louis, 1215 Central av
Schneider, F. W., 418 E 2d
Scholle, Chas. H., 2611 Cook
Schwartz, Mendel, 516 W 6th
Segal, Samuel, 620 John
Shaw & Stechow, 811 Central av
Singleton, Ruffner & Co. (Asphalt & Gravel, etc.), 8th & Plum

Smith, J. S. & Co., 612 W 5th
Smyrl, R. J., 308 E 5th
Sosinsky, A. & Co., 239 W McMicken av
Spatz, Wm. C. (Slate & Metal), cor Pow-ers & Tozzer
Standard Roofing Co., 1662 Providence

Stifel, John, 1816 Elm
Sweeney, Jeremiah A. & Co., 829 W 5th
Taylor, A. P., cor Burnett av & Hickory
Trinidad Asphalt Roofing Co. (Asphalt, Gravel & Comp.), 215 W 3d
Verges, F. F. (Slate & Metal), 2543 Vine
Vetor, Edward J., 1809 Queen City av
Weigel, John Co. (Slate & Metal), 664 E McMillan

Weissenberger, Mrs. Geo. K. (Slate, Tile & Metal), 4004 Spring Grove av
Wheeler, Otto E., 313 E 3rd
Wietlisbach, Alois, 1810 Linn
Witt Cornice Co. (Slate, Tile & Metal), 8th & Broadway
Witt & Brown (Slate, Metal & Tile), 215 W 3d

Weyler, Frank, Jr., 1107 W 8th
Wolitzer, Marcus, 630 Monnd
Wolpa, Louis, 573 W 6th
Wuenker, H. F., 2441 Gilbert av
Zoller, Fred., 1732 Central av
Zoller, Louis, Jr., 1512 Harrison av

CIRCLEVILLE—Crist Bros. (Slate & Metal)
Hoffman, Brown & Wilson (Slate & Metal)

McMullen, G. J., & Son (Slate & Metal)
CLEVELAND—Apel, Lawrence, 9203 Kinsman rd, S E

Bailey, Lemuel A., 616 Miles av, Nbg
Beck, William E., 1138 W 11th, N W
Benedict, N. J., & Sons, 3519 St. Clair av, N E

Berg, Geo. A., 3013 Cedar av, S E
Brennan, T. J., 2913 Central av, S E
Bringman Bros., 2110 Superior
Broz & Cerney, 4842 B-way
Buell & Frantz, 5312 Euclid av
Callaghan, J. & Son (Slate & Metal), 1119 Superior av, N E

Cater, E. U., 9604 Madison av, N W
Clauda, Joseph, 2674 E 67th
Cleveland Metal Roofing & Ceiling Co., 3105 Detroit av

Cleveland Sheet Metal Works, 6933 Superior av, N E
Compton, J. A., & Son, 3847 Cedar av, S E

Cooley, H. E., 2618 Detroit av, N W
Drake & Wiers Co. (Asphalt, Car), 17 Blackstone bldg

Duffner, Gordian, 4216 Lorain av
Feder, Samuel, 4505 Central av, S E
Fetzer, M., & Sons, 3503 Central av, S E
Fisk, David, 4804 Central av, S E
Forest City Htg. & Supply Co., 8215 Cedar av, S E

Forrest, R. T., 7800 B'way, S E
French, Walter T., 6111 Woodland av, S E
Fuerst, J. E. & Co., 979 Potomac
Gable, Jacob, 1585 Columbus rd
Gnuschke, Gustave F., 7001 Kinsman rd, S E

Goehner, E. F., 6615 Clark av, S W
Gorsuch, Thomas M. (Gravel, Metal, etc.), 919 James

Gould, Lee H., & Co., The Arcade
Grant, Jesse, 3617 Detroit av, N W
Green, A. A., 5911 Woodland av, S E
Greenberg, Max, 3712 Scoville av, S E
Grimm, Nicholas, 1506 Scoville av, S E
Guest, F. C., 5120 Lorain av

Haettich, Chas., 3425 W 60th, S W
Halter, Jacob, 2067 W. 14th, S W
Harrison Bros., 2912 Central av, S E
Haskins, J. H., Roofing Co. (Asphalt & Gravel), 2811 Clinton av, N W

Henninge, Peter, 7027 Lorain av
Hippler, Albert, Jr., 1320 E 68th, N E
Hogen, F. G., Co., 2345 E 69th, S E
Holz, Theo., 2911 Lorain av

Hundertmark, Wm. L., 4418 Memphis av, S W

Huntington, Henry J. (Comp. & Slate), 1010 Superior av, N E
Huntington, H., & Son (Asphalt, Gravel, etc.), "The Arcade"

Hussey, P. B., 3401 St. Clair av, N E
Jones, Joseph F., 6505 Linwood av, N E
Johnson Roofing Co. (Asphalt, Slag & Gravel), 2234 E 82d, S E

Kisner, Jacob, 8710 Kenmore av, N E
Kleppel, William, 3515 E 93d
Koberna, Charles, 3696 E 49th, S E
Koberna, John, 3621 E 49th, S E
Korner, C. J., & Co., 2911 E 34th, S E
Lake View Tin & Furnace Co., 1871 E 119th

Lockwood, Stephen A., 5368 St. Clair av, N E

Mathels Bros., 2622 E 76th, S E
Mayer, Joseph, 2205 W 40th, S W
Meder, Bernhard, 3407 W. 56th, S W
Mitchell, G. F., & Son, 2187 E 2d, N E
Moore, A., 6907 Lexington av, N E
Morgan Bros., 8716 Nevada av, S E
Norton Bros. (Gravel, Asphalt & Comp.), 2667 E 69th, S E

O'Connor Bros., 3310 Superior av, N E
Ohio Roofing Co. (Slate, Metal & Tile), 1477 Euclid av

Opre, Wm. M. (Slate & Metal), 8833 B'way

Orklin Bros., 2808 Woodland av, S E
Ortli, Charles F. (Slate & Metal), 2510 Barber av, S W

Parks, A. F., 2219 E 101st, S E
Paul, Richard R., 2427 E 79th, S E
Paebke & Son, 6810 Lawnview av, N E
Potter, George J., 3621 Payne av, N E
Pyleck, Florenz, 1766 E 43d, N E
Reese, August F., 3117 Seymour av, S W
Rlester & Thesmacher Co., 1526 W 25th, N W

Rudolph & Son Co. (Slate, Gravel & Metal), 416 Prospect av, N W

Sanders, Nicholas, 2428 E 83d, S E
Schadowsky, August, 4392 W 35th
Schlegel, Emil C. & Sons, 6210 Madison av
Schwertner, B., 1245 St. Clair av, N E
Sheahan, Martin W., & Son, 1623 St. Clair
Sheridan & Gerhan, 4003 Clark av, S W
Smith, W. E., 4701 Central av, S E
Sommers, C. A., 2220 E 100th, S E
Soros, Albert, 5514 Bridge av, N W
Stran, C. W. (Slate & Metal), 1288 E 9th, S E

Tietjen, John, & Son (Gravel), 3222 Clark av

Tiapa, John & Co., Morgan av cor E 65th, S E
Towson, E. H. (Slate & Metal), Builders' Exchange

Tschumper Bros., 4256 Pearl rd, S W
Uhl, William, Grand av cor Kinsman rd.
Vaudas, A. J., 3950 B'way, S E S E
Wachalce & Vlasak, 8619 Quincey av
Walther, John, 1839 Central av, S E
Watson & Lawrey, 1459 Addison rd, N E
White, Amos A., & Son (Slate, Metal, Gravel, Felt, etc.), 726 St. Clair av

Wolf, Edward F., 11711 Detroit av, Lake-wood
Yahraus, John, 3803 B'way, S E
Zellers, George, & Co., 5803 Woodland

COLDWATER—Hoyng, J. F., av, S E
Wapelhorst, Hy.

COLLEGE CORNER—Weldner, G. G.
COLLINWOOD—Collinwood Hdw. Co.
Skinner & Richards Co.

COLUMBIANA—Beard, John
COLUMBUS—Achauer, A. L., 1135 N High
Alter, Ralph, 866 Parsons av

Bailey, Francis M., 2590 N High
Blackwood, Green & Co., 624 N High
Bohnert, J. P. (General), 1184 W Broad
Bohnert, M. J., 1907 Parsons av
Bradshaw, A. L., 207 E Long
Calkins, W. R., & Sons, 752 E Long

Capitol Asphalt Mastic Co. (Asphalt Composition, etc.), 19 N. 4th
Claar, W. L., 2574 N High

Columbus Roofing & Supply Co., 116 E. Lafayette
Consolidated Roofing Works (Asphalt), Spring, cor Track

Cussins & Fearn, 653 W Broad
Daemler, Geo., 573 S High
Ewers, Thos. (Asphalt, Gravel, Metal, Slate, etc.), Spring & Dennison

Farmers & Sheetz, 344 S 4th
Haberling, Charles, 242 E Long
Hilker, W. C., 38 N Washington av

Hirschmann Bros., 411 S Pearl
Ihrig, F. B., & Co., 541 N High
Kaefer, J. F., 306 E Main

Kaiser, Andw. (Slate & Metal), 890 N High

Kaiser Bros. (Slate & Metal), 123 E
Kerins, Andw., 43 E. Lynn Chestnut
Killels, J. F., 1151 N High
King, H. N. (Slate & Metal), 971 W
Broad
Kleinlein & Benningnus, 306 E Main
Knell, Philip (Slate & Metal), 344 S 4th
Knox, Jos. J. Lumber Co. (Ruberoild),
405 Cleveland av
Kromer, P. F. (General), 669 St. Clair
av
Learn & Brindle, Locust, cor Wall
Lamneck, William E., 1135 Mt. Vernon
av
McCoy, Skinner & Stewart, 1245 N High
Miller Bros., 560 S High
Ochs, G. W. (Slate & Metal), 1114 E
Osborn, E. S., Wesley bldg Main
Osborn, J. M. & L. A. Co., Brunson bldg
Palmer, Chas. J., 75 W Lynn
Pritchard, Dow, 323 Galloway av
Reichenbach, J. B., 1148 Hunter av
Reichenbach Bros., 892 E Main
Reither, Edw. A., 839 S Wall
Riddle & Son, 893 N High
Root, Charles, 813 S High
Rosenthal & Silverman, 134 S Front
Schilling, John N. (Slate, Metal & Comp.),
Schipper, Jno., 760 E Mound 193 N Grant
Schoedinger, F. O. (Slate, Tile, etc.), 146 N
Schwartz, Morris, 346 E Livingston av
Shaffer Roofing Co. (Asphalt, Gravel,
etc.), 431 W State
Snyder, Geo. & Son (General), 163 N 9th
South Side Lumber Co. (Ruberoild), 1929
Spohn, Valentine, 177 S Pearl S High
Star Roofing Co. (Slate & Metal), 241
E Main
Stiles, S. T., 405 E Livingston av
Ward, L. F., 892 Mt. Vernon av
Weigand & Schumacher (Slate & Metal),
1184 W Broad
Will, Jacob A., 323 Donaldson
Zimmerer Bros., 641 S 3d
Zipf, F. W., & Son, 642 Hunter
CONNEAUT—Arthur, George T.
Matson, C. F.
COSHOCOTON—Coe, Benj.
Leffler, Mrs. A. M.
Reed, E. R.
Shrake, G. W.
Wolford, C. S.
CRESTLINE—Holcker, R. & H. (Slate &
Metal)
CUYAHOGA FALLS—Loomis, L. W. Hdw. Co.
Walker, J. H.
DAMASCUS—Delzell, C. G.
Dalzell, O. V.
DAYTON—Aiger & Bickham, 11 E Cass
Baker, John R. (Tin & Slate), 631 W Wash-
Bouile, John L., 128 S Williams ington
Breese Bros. Co. (Comp., Asphalt, Felt,
etc.), Reibold bldg
Bretch, A. (Slate & Metal), 126 E 5th
Bussdicker, Fred. (Slate & Metal), 1619 E 3d
Buvinger, G. W. & E. E. (Slate, Metal &
Tile), 327 E 3d
Callahan, Henry (Slate & Metal), 23 W 2d
Cammerer, Chas., & Son, 38 N Valley
Carroll, D. H., 1348 W 3d
Couch, R. L. (Slate & Metal), 1528 W 3d
Gravel), 15 N St Clair
Dayton Asphalt Roofing & Paving Co.
(Asphalt), 16 S Canal
Dayton Felt Roofing Co. (Felt, Pitch &
Gravel), 15 N St. Clair
Dixon, Henry, 629 S Wayne av
Foley, Jesse T. (Slate & Metal), Nor-
wood av & Horace
Hemberger & Vanbel (Tin & Slate), 850
S Brown
Hoersting & Holtmann (Iron & Felt),
1124 W 3d
Jungclas Cornice & Furnace Works (Slate &
Metal), 609 W Wash'n
Kenney, Jno. R. (Slate & Tin), 253 S Wayne
Kline, Jas. E. (Slate & Metal), 1430 S
Wayne av
Kline, Jonathan H., 1227 E 5th
McLardle, Chas. N. (Tin & Slate), 415 E
Miller, Wm. E., 401 N Main 5th
Recher, M. C., 215 Wortman av
Reese, Jno., 36 E 2d
Rieck, Bernard R. (Slate, Metal &
Comp.), 431 E Xenia av
Rieck, H. F. (Asphalt, Slate & Metal),
506 S. Wayne av
Santo, Herman (Tin & Slate), 615 E
Scott, Alfred M., 2506 E 3d Xenia av
Shonk, David N. (Slate & Metal), 1st &
Summit
Soehner, Herman (Slate & Metal), 112
S Jefferson
Sullivan, Percy E., N S Xenia Pike, E of
Smithville rd
Sullivan, Geo. E., 1925 E 5th

Sullivan, S. W. (Tin, Slate & Galvan-
ized), 226 N. Valley
Sweetman, Christ. (Asphalt), 54 S Bank
Walker, Edward W., 321 E Hughes
Weidner, Otto W., 17 Allen
Wintersteen, C. A., 408 W 3d
Wuichet, Chas. & Co. (Slate, Metal & Tile),
14 S Canal
Young, Max, & Son, 1738 E Richard
DEFIANCE—Kehnast, William A. Co.
Krull, Herman
Mallet, J. G.
Torrence, Chas.
DELAWARE—Clingen, J. A. (Slate & Metal)
Karl, F. B.
DELHI—Schwinderman, Frank (Slate & Metal)
DELPHOS—Delphos Hdw. Co.
Reddelberger, Theo.
DENNISON—Haas, G. D.
EAST LEWISTON—Blosser, Henry
EAST LIVERPOOL—Allen, B. E.
Allison, A. J.
Watson, A. A.
EAST PALESTINE—Whittenberger, J. H.
ELMWOOD PLACE—Krais, Henry & Co.
ELYRIA—Elyria Hdw. Co. (Slate & Gravel)
Fitch & Hornung (Slate)
Heldmeyer Hdw. Co.
Whitney, E. F. & Son
FAYETTE—Russell, Chas. H.
FINDLEY—Brewster, F. P. (Slate & Metal)
Daymon, W. L.
Fiscus, W. J. (Slate, Comp., Gravel, Tin &
Metal)
Gates, N. S. & Co. (Slate & Metal)
Greer Bros. & Co.
Halliwell, O. B.
Hoffman & Bryan (Slate, Comp. & Metal)
Klein, Fred (Slate & Metal)
Porch & Hartrauft (Slate & Metal)
FOREST—Young, J. W. & T. M.
FOSTORIA—Baker, W. E.
Ballmer, D. R.
Hessey, T. J.
Newson, Jas. L.
Rollins, S. A.
Stewart Hdw. Co.
FRANKFORT—Briggs, R. W.
FREMONT—Gast & Lang
Swint & Reineck
Winters, F. J.
GALION—Amick, H. G.
Helcher, C. & Son
Resch & Casey
Zimmerman, J. H.
GALLIPOLIS—Langley, Henry V.
Lawson, J. A.
Leeper, Chas. W.
Lewis, Timothy
Rue, Jno. C.
GLENDALE—Dollman, J. W. (Slate & Metal)
Schatzman, P. & Son (Slate & Metal)
GLENNVILLE—Ferris & Calhoun
GREENFIELD—Langley, George W.
Oxley, N. C.
GREENVILLE—Humphrey, R. T. (Slate)
Smith, O. H.
Wolf & Craig
GREENWICH—Viers, J. L.
HAMILTON—Bast, Geo. (Slate & Metal), 151
Becker, Jno. L., 329 Market N 3d
Ehrhardt, Wm., 110 Main
Heid, Philip & Son (Slate, Metal & Gravel),
Matthias Stove Co., 33 Main 12 S 3d
Moebus, Edw. C., 215 Court
Schlosser, Jacob & Son, 340 High
Zschaulwin, A. E. (Slate, Metal, Gravel &
Asbestos), 326 Maple av
HARTVILLE—Ebel & Son
HARTWELL—Kleespies, C. J. (Slate & Metal)
HILLSBORO—Brown, P. E.
Conrad, F. L.
Mauntel, Geo. O.
IRONTON—Fillgrove, L. A. (Slate & Metal)
Ironton Roofing & Corrugating Co.
Miller, Chas. F. (Slate & Metal)
Scherer, Mrs. Constantia (Slate & Metal)
Turnbull, J. T. (Slate & Metal)
KENT—Carlisle, F. F.
Jobe, E. E.
Reed, C. R. (Slate & Metal)
Vickers, H. W.
KENTON—Pink, Jno. & Son
Held, P. B., 207 W Columbia
Shectala, J. A., 211 W Franklin
LANCASTER—Baumeister, Jno. H.
Gardiner & Hughes (Slate, Iron, Steel &
Tin)
Kerns, E. O.
McMananey, James (Est. of) (Slate, Iron,
LEBANON—Fudge & Osborn Steel & Tin)
Grim, Geo. W.
LEETONIA—Groner, S. S.

LIMA—Elliott, E. J., 243 N Charles
Francis, Hugh, 226 S Main
Harman, Frank E., 215 S Main
Miller, J. T.
National Cornice Co. (Slate & Metal), 121
National Tile Roofing Co. E High
Roush, J. E., 145 S Main
Roush, Theo., 117 E North
LISBON—Armstrong, P. M. & Co.
Whitacre, Jno. (Slate)
LOCKLAND—Dauteich, E. (Slate & Metal)
LOGAN—Armstrong, C. P.
Work Bros.
LONDON—Speasmaker, P. Sons
LORAIN—Alten, N. C. (Slate & Metal)
Lorain Hdw. Co. (Metal & Slate)
LOUDONVILLE—Lepold, A. B. (Slate & Metal)
Marks, W. M. (Slate & Metal)
Miller's, L. S. Store (Slate & Metal)
LOUISVILLE—Bauman, G. F.,
Bowen, Josiah & Son (Slate & Metal)
LYNCHBURG—Murphy Bros.
McARTHUR—Lantz Hardware Co.
MADISONVILLE—Blaney, U. G. (Slate &
Metal)
Curtis, J.
Redman Bros. (Slate & Metal)
MALTA—Mellor, J. E.
MALVERN—Lewis, W. C.
MANCHESTER—Kirschner, F. V. & Co.
Lang Bros.
MANSFIELD—Bell, H. M. (Slate & Metal)
Crouse, F. & Son (Slate & Metal)
Donaldson, George W. (Slate & Metal)
Flohr, G. A. (Slate & Metal)
Harris, Wm. M.
Harter, Sherman (Slate & Metal)
Hoffman, Chas. (Slate & Metal)
Malone, E. F.
Martin, C. E. & Bro. (Slate & Metal)
Moore, B. M. & Co.
Runyon, C. C. (Slate & Metal)
MARIETTA—Hall & Lusk
Meagle & Theabolt
Morgan, J. W.
Seyler Hardware Co.
Theis, H. P.
MARION—Edsell, Frank C.
Heidman, Oliver
Parratt, W. P.
Salter, F. R. (Slate, Metal & Comp.)
MARSHALLVILLE—Weimer Bros.
Wickard, C. A.
MARTINS FERRY—Bayliss, J. A. & Bro.
Horcher, A. A.
Koeherson, M. E.
MARYSVILLE—Chnrch Bros. & Weld (Slate,
Emmert, Conrad & Co. Gravel & Comp.)
Scott, O. M. & Bro. (Slate)
Turner, Richard
MASSILLON—Critchfield & Son
Kammer & Ertle (Slate & Metal)
Koontz, F. L. (Slate & Metal)
Oberlin, Chas. E.
Paul, A. J. (Slate & Metal)
Pinkle & Gleitsman
Portman, A. F. (Slate & Metal)
Wernet, Leo H.
MAUMEE—Myers Hardware Co. (Slate, Metal,
etc.)
MEDINA—Oatman Bros. (Slate & Gravel)
MIAMISBURG—Schell & Pansing
MIDDLEPORT—Root, I. F.
Tewkesberry, G. W.
MIDDLETOWN—Fouts, C. C. (Slate & Metal)
MILFORD—Fritz, Walter A.
MILLERSBURG—Fitch, John
Helmuth & Burke (Slate)
Hinkle, Geo. E. (Slate)
Hinkle, Jas. O. & C. T. (Slate)
Shoup, Calvin C.
MINERVA—Gallatin, G. W.
MINSTER—Kramer & Heverbeck
MOUNT EATON—Schlafly, S. A.
MOUNT GILEAD—Holt & Rule
Sames & Struble
MOUNT HEALTHY—Jackson-McNutt Co.
Sorn, John
MOUNT VERNON—Bird Bros. (Slate & Metal)
Chase, O. C. & Sons
Jewell, C. W. & R. M.
Umbach, George W.
Rowley, A. F. & Son
NAPOLEON—Groschner, Otto A.
Hines & Son
NEWARK—Bailey & Keeley (Slate & Metal)
Clark, A. S.
Jones, J. C.
Magee & Davis
Nutter & Bishop
Weakley, J. W. (Tin & Slate)
Woodward, E. L.
NEW PHILADELPHIA—Koons, H. G. (Slate
Taylor, O. P. & Son & Metal)
Zeilner Co. (Slate & Metal)

NILES—Cramer Bros.
Eaton, J. W. (Slate & Metal)
Niles Plumbing & Heating Co. (Slate & Metal)
Union Roofing & Supply Co. (Metal)

NORWALK—Gfell, J. H. & Co.

NORWOOD—Braun, A. & Co.
Gerth, Anton

OTTAWA—Frey, E. L.
Jenkins, D. R.
Seblerloh, C. A.

PIQUA—Alsbaugh, Fred'k
Heldle, Geo.
Kienle, Hy.
Lee, Geo. E. (Slate & Metal)
Norr, T. H.
Racine, Edw. C.

PLEASANT HILL—Whitmer Bros.

PLYMOUTH—Becker, F. L.

POMEROY—Prall, D. M.
Remington, B. R.
Skinner Hardware Co.

PORT CLINTON—Mizener & Orth

PORTSMOUTH—Arnold, Aug. (Slate & Metal)
Conroy, Tbos. & Son
Glockner, Alexander M.
Haney, W. S.
Hook, Frank
Lauter, Louis
Roth, Valentine

RAVENNA—Beckley, C. A. (Est. of)
Dole, J. G. & Son
Schultz, Henry (Slate & Metal)

READING—Hauser, John V. (Slate & Metal)
Hansser, Jos.
Hansser, George

ROSEVILLE—Zehring, S. P.

ST. BERNARD—Waltermann, Jno. & Co.

ST. MARYS—Bishop, A. F.
Helsel, A. F.
Meyer, Louis

SALEM—Asbead, J. M.
Forsythe, Peter
Gamble, George W.
Harris, P. E.
Hole, C. B.
Salem Furnace & Roofing Co.
Walton, J. L.
Zelley, E. F.

SANDUSKY—Andrews, S. & Son
Gundlach, Chas. W.
Matern, Henry
Mertz, Jacob & Sons

SCIO—Crogban, J. G.
Menkel, H. L.

SENECAVILLE—Brown & Lepage

SEVEN MILE—Hill, R. & Son

SHANESVILLE—Smith, Jno.

SHAWNEE—Williams, Jno. E.

SHELBY—Armstrong & Raugh (Slate & Metal)
Drake Hardware Co. (Slate & Metal)
Shelby Hardware Co. (Slate & Metal)

SHERODSVILLE—Williams, Mrs. M. A.

SIDNEY—Bayley, P. H. (Slate & Metal)
Reinisch, Geo. A.
Rostron, Jas.
Steinle & Miller

SNABURG—Bower, Frank O.

SOMERSET—Safford, Geo. H. & Co.
Yarnell, J. H. (Slate, Tin & Metal)

SOUTH CHARLESTON—Battin & Stoecklen (Slate & Metal)

SPENCER—Oakley, S. D.

SPENCERVILLE—McClain, A. W.
Pohlman, Chas. L.

SPRINGBORO—Hadley, J. W.
Thomas, J. S.

SPRINGFIELD—Bancroft, L., 80 S Yellow Springs
Fisher, W. Frank B., 23 W College av
Hauck, Chas. F. & Co., 35 W Main
Hendrickson & Petticrew, 30 N Fountain av
Humphreys, J. A. (Slate & Metal), 68 S
Lafferty, S. J. & Sons Limestone
Otto, F.
Parthamore, J. C., 24½ Primrose alley
Peet & Schuster Co. (Slate & Asphalt), 118
Schenck, Wm. S Center

STEUBENVILLE—Bentz, W. K. (Metal)
Linehan, C. E.
McMahon, P. F.
Morgan, Edward (Slate, Comp., etc.)
Mosel, F. W.
Powers, H. P.
Yocum, F. W.

SULPHUR SPRINGS—Rader & Co.

SWANTON—Walsh, Jas.

SYCAMORE—Stanm, Martha R.
Wagstaff, B.

TIFFIN—Burke, John
Crobaugh & Dahm Hardware Co.
Ernest, G.
Gabris, J. L. (Slate, Metal, Gravel & Felt)
Gundlach, A. W.

La Bar, J.
Smith, Jacob
Steinbrick, Louisa
Strandler, P.

TIPPECANOE CITY—McClure, J. W.

TOLEDO—Albrecht, J. H., 1825 Spielbusch av
Aman, John, & Co., 810 Nebraska av
Arnold, J. L., 1414 Dorr
Aufderheide, H. F., 618 St. Clair
Baily, Albert C., 932 Post
Benner & Faunce, 716 Summit
Bihn, John L., 93 Main
Burdick, L. F., Co. (Slate, Metal & Comp.), 2011 Adams
Cheney & Co., 531 S St. Clair
Cresswell, J. L. (Metal), 120 St. Clair
Curran & Firth (Steel & Tin), 620 Monroe
Eberth & Weis (Slate & Metal), 124 St. Clair
Finn Bros., 2118 Monroe
Francis, Hugh K., 605 Lagrange
Frech, Jacob F., Ontario & Orange
Garvey, M. J., 107 Michigan
Gerken, J. D., & Co., 1309 Wash'n
Gors, Herman W., 1844 B'way
Hofer, Fred'k, Jr. (Slate & Metal), ft Wash'n
Hofer, G., & Co. (Slate & Metal), 13 St. Clair
Hoffman, Harpst & Co., 1005 Cherry
Hummel & Hillebrand (Asphalt & Comp. Gravel), 427 Hamilton
Klink & Yeoman, 115 Euclid av
Kloppinger, G. F. C. (Slate, Metal, etc.),
Krauter, J. F., 531 B'way 130 Ottawa
Laures & Pfann, 1805 Canton
Loeffler & Christen, 1401 Cherry
McManus, William, 917 Summitt
Meyerhofer, H., Jr., 313 Field av
Munding, Adolph, 914 Starr av
Miller, Chas. F. (Slate & Metal), 3246 Monroe
Neipp, Jno. W., 1515 Lawrence
Pollman, E. H., 708 Collingwood av
Ramier, M. J., & Sons, 1017 Summit
Richards, Charles E. G., 8 St. Clair
Sabin Bros. (Steel & Tin), Smead av,
Sailer, Ignatz A., 612 1st n Monroe
Scharer, Mrs. J. H., 1608 Cherry
Schillenger Bros. Co. (Gravel, Asphalt & Composition), 215 City Park av
Shuman, A. D., 626 Western av
Toledo Cornice & Copper Works (Metal & Slate), 130 Ottawa
Toledo Roofing & Painting Co. (Gravel, etc.), Smith & Baker bldg
Warnke Bros. Co., 23 Erie
Wilhelm, F. J., 1104 Monroe
Wortsmith, Frank, 415 Huron

TORONTO—Allison, Wm. E. (Slate)
Boswell, S. (Slate & Metal)
Brown, L. H. (Slate & Metal)

TROY—Cosley, H. A.
Hatfield & Scott
Kauffman, Chas.
Ohlinger, J. W.
Schnaible & Smith
Schnell, George

UHRICHVILLE—Leffler & Roby (Slate & Metal)
Smith, Leslie

URBANA—McCracken, J. C. & Sons
Schiede & Dunlap

VAN WERT—Clark, D. A.
Ross, Wm. B.

WAPAKONETA—Foos & Webner
Kolter, F. F.
Meyers, Julius
Schemmel & Matlehner
Schminke, August

WARREN—Boorn, E. C.
Browning Bros.
Fox & Schler (Slate & Metal)
Skinner, L. E.
Warren Hdw. Co.

WASHINGTON—Allen, Chas.
Karney, F. P.
Wilson, Jno. W. & Co. (Slate & Metal)

WASHINGTONVILLE—Gilbert, J. E.

WAUSEON—Harper, W. J.

WELLINGTON—Pierce, A. H.
Ransom-Buchman Co., The
WELLSTON—Rupp, Geo. H.
Rupp, J. H.

WELLSVILLE—Cope Hardware Co.
Morrow Bros.
Wellsville Hardware Co.
White, P. H. & Son
White, Smith & White (Slate & Metal)

WILLOUGHBY—Yaxley, W. H. & Son

WILMINGTON—Jeffries, L. C. & J. M.
Palmer, D. K. (Metal & Slate)

WILMOT—Hurray & Son

WOOSTER—Billman, S. H.
McClure & Co. (Slate & Metal)
Maurer, John W.

WYOMING—Kuhlman, Jno. B.

XENIA—Baldner & Fletcher
Henrie, C. C. (Slate & Metal)
Rayburn, Jas.
Scott, W. H. & Son

YOUNGSTOWN—Alexander, J., 2035 W Federal
Bell, R. A. & Co. (Slate & Metal), 631 W Federal
Blunt, Geo. (Slate & Metal), 502 Maboning av
Broadbent, W. J.
Carey, Philip Mfg. Co.
Dalzell Bros. (Slate), 21 Holmer
Floravante, Corradino
Goodge, R. E. (Slate & Metal), 21 S Walnut
Holland, A. D.
Kaiser, William
Laughlin Bros. (Slate & Metal), 580 Mahoning
Lawlor, Thos. J., 265 W Federal
Ludt, Jno. P. (Slate & Metal), 637 Wilson
Palmer, C. O. & Son, 99 McGuffey av
Parry, W. J. (Slate & Metal), 738 Mahoning
Perkins Hardware & Roofing Co.
Pettit, Myron (Slate & Metal), 248 E Boardman
Squire, Jno. R. (Slate & Metal)

ZANESVILLE—Berksbire, T. C. & Son, 616 Main
Hanlon & Saup, 142 N 7th
Harlan, John C.
Ludy, J. W.
McCormack, G. W. (Slate & Metal)
Maher & Co., 701 Elm
Marcellus, C. J. & Son, 211 Main
Nowell, W. B., 13 W Main
Schreiber Bros. & Flaharida
Schmidt, David (General)
Seright & Webster
Snyder Roofing Co. (Slate, Metal & Asphalt)

OKLAHOMA.

ANADARKO—Steizner, J. C. & Son

ARDMORE—Berrybill, Frank
Weeks Bros.

CHICKASHA—Hollingsworth, C. P. & Co.

DAVIS—Page, J. C.

EL RENO—Chapman, Wm.
Hollister & Co.

ENID—Enid Plumbing Co.
Van Frank, Fred.

EUFAULA—Edson, W. & Co.

GUTHRIE—Morris, F. L.

MCALISTER—McAlester, J. B. Hardware Co.

MARIETTA—Kisselburg, E. T.

MUSHOGEE—Bellis, A. B.

OKLAHOMA—Grav, J. T. Roofing Co.
Herrman, F. W.
King, J. R.
Swanda & Finch
Wallace, J. J. (General)

PAULO VALLEY—Braden, R. E.

SHAWNEE—Boeber, M. C.
Estes, W. M.
Lester, S. H.

OREGON.

ALBANY—Ludwig, Martin
Stewart & Sox Hdw. Co.

ASHLAND—Provost Bros.

ASTORIA—Montgomery, E. T.
Sculley, W. J.
Willett, S. H.

BAKER CITY—Basche-Sage Hardware Co.
Caldwell, Hampton
Hood, Joseph E.
Wood Bros.

BANDON—McNair, A.

COQUILLE—Lamb, J. A. & Co.

CORVALLIS—Huston, R. H.
Smith, J. R. & Co.

EUGENE—Aya & Heitzman
Chambers Hardware Co.
Griffin Hardware Co.

GRANTS PASS—Coron, E.

HEPPNER—Gilliam & Bisbee

MARSHFIELD—Milner, J. H.

MYRTLE POINT—Huling, Lundy & Son

OREGON CITY—Gadke, F. C.
Pope & Co.

PENDLETON—Beck, Benj. F.
Clarke, W. J. & Co.
Taylor Hardware Co.

PORTLAND—Abbott Tinning & Rfg. Co., 432 Union av, N
Austin, J. L., 387 E Adler
Bailey, Bernard, 372 E Washington
Bartosch, John, 288 Russell
Bayer, J. C. (Slate & Metal), 263 2d
Bliger & Nichols, 353 Ankeny
Blosser, Abraham, 571 Tenino av
Burkhart & Weaverson, 303 4th
Burkley, J. A.
Campbell, J. M., 368 Russell
Columbia Hardware Co., Morrison & 2d
Cnrry, A. W., 116 Grand av
Ehlers, Albert, Montavilla
Gabriel & Groeger, 181 E Water

Hirschberger, J. (Metal & Gravel), 247
Kaddierly, John J., 141 1st Ankeny
Kelly Bros., 183 E 34th
Kingsley, J. S., 270 16th
Krebs & McDonald, 209 2d
Losil, Jacob, 212 Jefferson
McMahon & O'Connor, 5 N 3d
Meler, J. A., 265 Russell
Moore-Meagher Co., 42 1st
Northwest Roofing Co.
Oregon Sheet Metal Works, 146 Front
Petsch, C. F., 643 Umatilla av
Roland & White, 830 Union av, N
Ruedy Bros., 268 Front
Senn, Theodore, 632 1st
Thronsdon, Theodore C., 290 Grand av
Tilton Bros., 105 N 5th
Wynkoop, L. W., 248 Ash
SALEM—Barr, T. M. (Metal & Slate)
Stelner & Berger
THE DALLES—Maler & Schanno
Mays & Crowe
Sexton & Walther

PENNSYLVANIA

ADAMSTOWN—Schnader, Levi C.
AKRON—Kemper, Geo. A.
ALLEGHENY—Allegheny Cornice & Skylight
Co. (Slate & Metal)
Arndt, Herman & Co., 2062 Chartiers
Baetz, Mrs. M., 811 Chestnut
Bloedel, Herman R., 408 Chestnut
Dages & Co., 2056 Chartiers
Fortenbacher, J., 508 Ohlo, E A
Gauger, A. C., 613 Jackson
Gehb, John, 127 Ridge
Geyer, Jacob, Atlantic av, nr Termon av
Hart, Wm. V., 5 Robinson, W A
Hartzell Bros., 1325 Sheffield
Helt, Frank W., Ellis & Perrysville avs
Helt, Geo. P. (Slate, Metal & Gravel), 1015
Jacobs, Anthony, 1240 Franklin Sedgwick
Kemmer, Jacob, 1308 Geyer av
Kirk, Chas. H., 1018 Beaver av
Knodel, W. H. (Slate), 510 E Diamond
Limbach, Frank, 1614 Lowrie
McCaw, T. W. Roofing Co. (Gravel), 104
Erle, W A
McGraw's, J. A. Bros. (Gravel, etc.), 220
Myers, F. D., 105 Robinson Sandusky
Nimpher, A. J., 42 Rhine
Retter, Frank (Tin), 1530 East
Sands & Creagh, Allegheny av & W P R R
Schimpf, H. & Son, 12 Rolla
Schmidt, A., 85 McClure av
Schmidt, Geo. P. & Son (Slate), 1018 Ohlo
Schnauffer Roofing Co., 816 Concord
Scholes Bros. (Slate & Metal), 1241 Re-
becca
Schroffel, John & Son, 316 Spring Garden
Schwartz, Herman, 3035 Stayton av
Watkins, E. J. (Tin), 3035 Geyer av
Weiseckel, P. J., 342 Md av
ALLENTOWN—Allentown Cornice Works
Bernhard's, Z., Sons (Slate & Metal)
Best, J. A., & Co.
Ettlinger, C. H. & Co.
Hersh & Bro., 829 Hamilton
Herzog, F. (Slate & Tile)
Herzog, Charles
Kline, Alfred L.
Merkel, Wm. J. (Slag, etc.)
Miller, Jacob, 535 Linden
Roth, Daniel J., 212 Hamilton
Vogel, T. P., 616 N 5th
Wasser, T. R.
Wieder, Harry & Co. (Slag, etc.)
ALTOONA—Degenhart, W. J.
Degenhart, John P.
Degenhart & Segmiller
England, S. B., 1412 6th av
Garahan, P. F. & Sons, 1104 16th
Holliday, J. C.
Hughes, J. C. & Son, 906 8th av
Johnson, A. A., 1218 8th av
Klmmel, Phillip, Jr.
Klmmel, W. J.
Klesius, Geo. A., 609 12th
Peters, W. T. (Slate & Tile), 915 11th av
Pfannenschmidt, Henry (Slate), 2001 9th
Sabathne, Henry
Union Roofing Co. (Tile, Slate & Gravel)
Welsgarver, R. S., cor 11th av & 13th
Wilkinson, Lee A.
Zumsteg, Frank
ANNVILLE—Keller, S. F.
Smth, W. H. & Bro.
APOLLO—Baxter, E. L.
ARDMORE—Whelan, M. A.
ASHLAND—Barnard, C. H.
Buck, Peter E. & Sons
Laner, Jno. J.
McConnell & Bro.
Stief, Herman J.

ATHENS—Flinch Bros.
Roberts, G. L. Co.
AVALON—Springer, O. P.
AVOCA—Drufner, Christopher
Dunn, T. J.
Webber, George V.
AVONDALE—Thomas, Joshua
BAINBRIDGE—Hipple, H.
BALLY—Eddinger, Henry
BANGOR—Dutt Bros.
Houck, W. O.
Snyder, Edwin
BATH—Beer, Jacob F.
BEAVER—Lawrence, Jos. W. (Slate & Metal)
Simpson & Ingam
BEAVER FALLS—Allen, Thomas R.
Barker Bros.
Brlerly, F. F.
Davidson, W. J. (Slate & Metal)
Zeller, Henry W. (Slate & Tile)
BEAVERTOWN—Snyder, W. G.
BECHTELSVILLE—Kehs, I. B.
BEDFORD—Shires, H. P.
BELLEFONTE—Twitmore, W. T.
BELLE VERNON—Hasson, J. P.
Odert & Clendenon
BELLEVILLE—Utts, Willson S.
BELLEVUE—Knell, Louis
BENNETT—Presthoid, Edw.
BENTON—Keller, G.
Keller & Conner
BERWICK—George, O. W.
Laubach, H. C. & Son
Lenhart, J. W.
BETHLEHEM—Bishop, Augustus S.
Campbell, Abraham A.
Heuey, C. W.
Krause, Henry A.
Kromer, Amandus A.
Lehigh Valley Cornice Works
Luchenbach, F. E. & Bro.
Schall, Fred J., West B
Schlosser, Jacob F., West B
Wagner, Frank A.
Young & Weaver
BIRDSBORO—De Witt, August
Prutzman, J. M.
BLAIRSVILLE—Alter, F. M. (Slate & Metal)
Alter, J. O. (Slate & Metal)
Alter, O.
Forsha Bros. (Slate, etc.)
Stiffey, S. D. & Sons
BLANCHARD—Clark, D. W.
BLANDON—Madelra, Samuel H.
BLOOMSBURG—Hartman & Mendenhall
Whary, L. E.
BOYERTOWN—Yahn, Jacob B.
BRADDOCK—Braddock Hdw. & Supply Co.
Edmunds, Richard W.
Loew, J. A. & Co. (Slate & Tin), 546
Braddock av
Schilling, Conrad, Jr. (Slate & Tin), 644
Corey av
Shirer, J. W. (Slate & Metal)
Shiver, W. L.
Shuart, J. W.
Slickman, John A.
BRADFORD—Bodine, Geo. A. & Co.
Fox, Jas. B.
Griffith, T. M. & Son
Haggerty, Marceus A.
Tschachtll, Louis
BRIDGEPORT—Kalb, J. F.
BRISTOL—Beyan, Lewis J.
Girtom, Wm. A.
Hendricks & Marlner
BROCKWAYVILLE—Bond & Cooper
BROOKVILLE—Blake, E. E. (Slate)
Henderson, Robert L.
Sentner, J. H.
BRYN MAWR—Bryn Mawr Hardware Co.
Morris, Jos. A.
BURGETTSTOWN—Conrad, Henry
BUTLER—Barnard, C. H.
Blehl, Henry
Campbell, J. G. & W.
Gill, Mrs. Jessie
Gillmore, W. R.
Hauck, F. J.
Stack, C.
Wilson, Wm. B.
CAMPBELLTOWN—Whitman, A. M.
CANONSBURG—Elliott, W. J.
Van Eiman, J. J. & Son (Slate & Gravel)
CANTON—Clayton, W. H. (Agt.)
Pierce, Theo.
CARRONDALE—Roll & Brown
Van Bergen & Co.
Von Reck Bros.
CARLISLE—Rixler, J. P. & Sons
Fridley, Jacob
Morris & Riley
Rinesmith, Geo. W. & Sons

CARNEGIE—Linfestey, T. M. & Co.
Rome, Geo. & Co.
Schrleber, Elmer E.
Schultz, Jno. F. & Son
Thomas, Jno. C. (Slate)
CATASAUQUA—Schnelder, Chas.
Schneller, Charles W.
Schneller, Jno. P.
Souders, Henry J.
CENTER SQUARE—Drake, S. B.
CHAMBERSBURG—Eyster & Sneider
Hanks, Jared B.
Lay, Wilson F.
Leshner, Daniel (Slate)
Miller, C. P. & Co.
Miller, F. A.
Reside, Wm. H.
Stepler, George H.
CHARLEROI—Bowers, John H.
Freeman, Fred
Laird, J. F.
May, L. W. & Co.
CHESTER—Armitage, Geo. L. (Slate, Metal & Gravel)
Beaumont, Wm., Jr. (Slate & Metal)
Beaumont, J. C. & J. D.
Brackenbridge, Jas.
Deveney, Wm. L. (Slate & Gravel)
Doran, Jno. A.
Elsenblise & Bro. (Slate, Metal & Gravel)
Fryer, James
Goodman, K. & Son
Howarth's, Robt. Sons (Slate, Metal & Gravel)
Ives, E. T.
McCarey, Edw.
Shea, Jno. F.
Smith, George G.
Ward, Hugh H. (Slate, Gravel & Metal)
CHRISTIANA—Donoghue, Geo. W.
Koons, Geo. A.
CLAYSVILLE—Plants, C. C.
CLEARFIELD—Johnson, F. & Bro.
Kettelbarger Bros.
COATESVILLE—Cordes, Hy. B.
Glauner, Jno. R.
Pleasant, John
Sallis, Wm. (Slate & Tile)
Speakman, J. E.
Young, W. W.
COLLEGEVILLE—Hunsicker, A. K.
COLMAR—Clark, J. S.
COOPERSTOWN—Fleher & Eckert
COLUMBIA—Conley, Albert B.
Haug, Jacob
Paules, J. W. (Slate)
Strickler, Calvin R.
White, Thes. S.
Wilson, Hiram Hardware Co.
CONNELLSVILLE—Fitzmiller & Co.
Skinner, J. B.
CONSHOHOCKEN—Messinger's, H. C. Sons
Mullen Bros.
Sower & Campbell
COPLAY—Sieger, Elias
CORAOOLIS—Engle, J. C. (Slate & Metal)
Stoops, T. D. & Co.
CORY—Barlow Hdw. Co.
Guignon, E. E.
Guignon, H. A.
Miller & Stewart
DANIELSVILLE—Hower, J. K.
DANVILLE—Doster, J. H.
Foster Bros.
Hendricks, Geo. W.
Hixon, John
DARBY—Appleton, A. N.
DELTA—Baker & Bro.
DONORA—Hodge, B. H. (Slate & Metal)
DOYLESTOWN—Donnelly, John J.
Hiland Bros. (Slate, Tin, Tile & Iron)
DUBOIS—Hellbrun, Henry
Hibner-Hoover Hardware Co. (Slate, Metal & Gravel)
Prothero, F. W.
DUNMORE—Hughes, T. J.
Priem, Herman
Wheatcroft, Wm.
DUQUESNE—Rannigan, Wm. & Co.
Thomas, G. E.
DUSHORE—Cole, Samuel
Cunningham, Jas.
EAST BRADY—Rlatt, V.
EAST HAUCH CHUNK—Genshart, Geo. M.
EASTON—Arndt, Wm.
Bennett, H. H.
Grogan, James
Hahn, Richard S.
Kinsey, H. P.
Linden & Son
Mecker, L. R., 466 Northampton
Miller, E. H. (Metal, etc.)
Miller, H. R., 623 Northampton
Osterstock, Jos. S., 212 Northampton
Schooley, H. C., 1123 Northampton

Seybert, B. F., 1101 Butler
 Slough, Joseph
 Stotz Bros. (Slate & Metal)
 Vogel, Harvey E.
 Wilson Stove & Mfg. Co.
EAST STROUDSBURG—Barnhoft, George J.
 Lessig, Joseph H.
ELDRED—Young, W. A.
ELIZABETH—Wylie Bros.
ELIZABETHVILLE—Hoke, Ira. M.
 Ziegler, Lewis H.
ELLWOOD CITY—Lenigan, J. W.
ELVERSON—Fox, Henry S.
EMAUS—Wieder, H. A.
EMLENTON—Shoemaker Bros.
 Weller, J. A. & Sons
EMPORIUM—Murray & Coppersmith Co.
ERIE—Balzer, John
 Einbellig, J. A.
 Erie Roofing Co. (Felt, Slate, Asbestos,
 Feidler & Hippeli etc.), 1310 Sassafras
 Kretz, Jacob, 527 French
 Miller, John, 617 W 18th
 Minzenberger, Jacob
 Murphy Bros. (Slate & Metal), 22 N Park
 Patterson & Sterling (Slate & Metal), 12th
 Rasttatter, H. B. & French
 Ruland, J. S.
 Sweigard, U. D., 424 W 19th
 Trimble, W. S.
 Woeckner, H. A.
ETNA—Hartman, Charles A. Son & Co.
ETTERS—Shaffer, Geo. F.
EVANS CITY—Dunbar, B. W.
EVERETT—Gorsuch, Thomas V.
 Herman, F. H. & Son
FACTORYVILLE—Connors, John
FLEETWOOD—Maderia, Levi
 Schlegel, Wilson K.
FRACKVILLE—Haupt Bro.
FRANKLIN—Greer, C. H.
 Harding, George
 Lovell, S. A. & J. W.
 Tiffany & Ramsdale
FREDERICK—Knorr, Jno.
FREDERICKSBURG—Kirst, Geo. W. & Son
FREEDOM—Overton, R. J.
FREELAND—Marchetti, Henry
 O'Boyle, M. M.
FREEMANSBURG—Cole, O. V.
FREPPORT—Dougherty, Wilson
 Wallace, E. H.
GALLITZIN—Buck, Jos. G.
GETTYSBURG—Gottwald, George G.
 Smith, A. J.
 Winebrenner, Thomas J.
GIRARDVILLE—Horsewood, William
GLENFIELD—Friese, Chas.
GLEN ROCK—Kraft, Albert W.
 Lau, L. B.
GRATER FORD—Smith, J. L.
GREENVILLE—Bennett, E. F.
 Dickey Bros.
 McMannus, L. A.
GROVE CITY—Filer, W. H. (Slate & Metal)
 Rhodes & Redmond
HALLSTEAD—Rogers, J. B.
HAMBURG—Egolf, B. F.
 Rau Bros.
 Seidel, R. F.
HANOVER—Bargelt, Lewis I.
 Bargelt, Paul E.
 Bixler, D. D. & Son
 Rohrbaugh, John F.
 Slagle, William A.
 Wentz, R. M.
HARLEYSVILLE—Wolford, H. D.
HARRISBURG—Cleckner & Burke, 1226 N 3d
 Ebert, William, 418 Rely
 Ensminger, S. D.
 Fager, Geo. C. & Sons
 Fisher Bros., 1001 Capitol
 Mull, G. W.
 Nissley, H. K., 14 N 3d
 Parthemore, L., 37 N 13th
 Payton, Michael
 Rebeck, J. M., 1849 Derry
 Rein, H. A.
 Townsen, T. F. (Slate), 509 Walnut
 Snook, W. H., 334 Kelker
 Starr, M.
 Weast, George B.
 Weiss, E. W.
 Zeiders, W. W.
 Zeigler & Hayes
HARRISON VALLEY—Hubbard, C. G.
HATBORO—Butterworth & Fretz
HAWLEY—Lieber, August K.
 Mayer, Albert
HAZLETON—Barber, J. F. & Co (Slate &
 Cohen, Jacob Metal)
 Koehler, George G. & Son
 Murphy, Daniel S.

Schmauch, N. J., 46 E Mine
 Tunnessen, William
 Wagner, E. E. & Co.
HELLERTOWN—Fehr, F. L.
HOLLIDAYSBURG—Brenner, William
 Frank, G. J.
 Reed, J. H.
 Schilling, John M.
HOMESTEAD—Nebo Bros. (Slate & Metal)
 Roberts, Jno. H.
HONESDALE—Spettigue, O. M.
 Watts, Graham
HONEYBROOK—Anderson, A. M.
HUMMELSTOWN—Nye & Conrad
HUNTINGDON—Fluk, B. F.
 Hassenplug, William
 Vaughan, F. C.
INDIANA—Alter, Charles A. (Slate)
 Hamilton, George T.
 Taylor, Alexander T.
INTERCOURSE—Rodgers & Leaman
IRWIN—Bowman, John A.
 Miller, H. S.
 Shotts, E. P.
 Smith, E. W.
JAMESTOWN—Robb, S. L.
JEANNETTE—Dreugwitz, O. A.
 Koerbel Bros.
 McCormick, W. L.
JENKINTOWN—Fleck, W. C. & Bro.
JERMYN—Eagen, M. J.
JOHNSTOWN—Alter, F. E.
 Doyle, F. J.
 Fenn, Wm. J.
 Friedhoff & Mahaffey
 Garretson, N. S.
 Grafe, Jno. A.
 Joy Bros., 234 Bedford
 Luttringer Bros.
 Milligan, James J.
 Statler, W. H.
KANE—Crowell, Theodore
KENNETT SQUARE—Martin & Sill
 Thomas, Chas.
KINGSTON—Gallagher, P. L.
 Johnson, Harry F. & Sons
KIPPLE—Colestock, S. H. (Felt, etc.)
 Lees, John W.
KITTANNING—Croll, Lee S.
 Graham, A. W.
 McConnell & Luker
 McCullough, James, Jr.
KLECKNERSVILLE—Fehnel, John E.
KULPSVILLE—Kline, H. R.
KUTZTOWN—Smith, Joshua
LANCASTER—Ackerman, Jacob P.
 Arnold, John L. (Slate, Metal & Slag)
 Dare, John H.
 Everts & Overdeer, 1 Howard av
 Fellman Bros.
 Kiehl, George L.
 Long, Joseph, 402 E Orange
 May, Cornelius F.
 Miller, David H.
 Peach Bottom Roofing Slate Co. (Slate)
 Reeser, Jos. A.
 Pohl, John E.
 Schaum, John G.
 Sener, G. & Sons (Slate), 309 N Prince
 Sheet Metal & Supply Co. (Metal & Comp.)
 Slaugh, William
 Swartz, Harry B.
LANDISVILLE—Sanders, D. D.
LANDSDOWNE—McCullough, C.
 Nacey, John (Slate & Metal)
 Worrell, Wm. H.
LANDSDALE—Davis, Lewis M.
 Weingarther, C. S.
LANSDFORD—Davis, T. L.
 Drumbeller, N. & G. F.
 Hall, J. R. (Slate)
LATROBE—Carothers, J. D.
 Crawford, Chas.
 Gardner, M.
 Gregory Bros.
 Houck & Son
 Lohr, Jacob H.
LEBANON—Blyler, Frank P.
 Bower, A. H. (Slate)
 Bressler, C. O. & Co.
 Coble, L. M. & Co.
 Gamber, Wm. P.
 Grumbeln, J. E. Co.
 High, D. F. (W Lebanon)
 Reinhard, T. H.
 Rise, William S.
 Seltzer, J. H.
 Uhler & Kline
LEECHBURG—Leechburg Hardware Co.
 McGeary, J. M.
 Small & Hill
LEHIGHTON—Esch, George A.
 Jones, James T.

LEWISBURG—Cromley, William (Slate)
 Wensel, W. N.
 Zentmeyer, Frank
LEWISTOWN—Fichtthorn, Joseph A.
 Spangler Bros.
 Thomas, James I.
 Zerhe, H. R.
LEWISVILLE—Ewing, George T.
LINFIELD—Daub, H. L.
LIVERPOOL—Coffman, W.
 Staily, H. B.
LOCK HAVEN—Baker & Co.
 Bittner, G. W.
 Pickenscher, Frederick (Est. of)
 Fredericks, J. H. & Bro.
 Geary, M. P.
LUZERNE—Snyder, John T.
McKEESPORT—Bestwick, Jacob (Slate &
 Dale, John Metal), Blackberry av
 Exner, W. H.
 Hartman Hardware Co., 215 5th av
 Kemp, Jas. F. & Bro.
 McKeesport Pibg. & Roofing Co.
 Miller & Matthews
 Myers, Jacob, 910 Jenny Lind
 Reed, F. M. & Co.
McKEES ROCKS—Smith, Hy. J.
 Van Tine, John
MAOUNGIE—Desh, Milton
MAHAFFEY—Wrigley Hardware Co.
MAHONEY—Heinze, George C.
 Heiser, H. J. & Co.
 Larkin Bros.
 Leahy, Thomas F.
 Miles, J. W.
 Morgan, William
 Stokes, Geo. S.
MALVERN—Garret, R.
 Morgan, W. & T.
MANATAWNY—Yoder, M. S.
MANHEIM—Ream, Frank W.
MARIETTA—Strump & Mueller
 Wiseman, A.
MARS—Zeigler, A.
MARSHALLTON—McFarland, H. J.
MAUCH CHUNK—Bartholomew, E. D.
 Schrank, William M.
MEADVILLE—Berg, Fred J.
 Gill, D. A.
 Guenther, F. M.
 Powell, M. M. & Co.
 Roueche, Frank (Slate & Metal)
 Weik & Stein
MECHANICSBURG—Bobh, G. W.
 Cromleigh, D. A.
 Hauck Bros.
MEDIA—Buckley, Miss E. A.
MERCER—Downs, James
MEYERSDALE—Baer & Co.
 Bolden, Chas. A.
 Cover, P. J. & Son
MIDDLETOWN—Keever, W. F.
 Lenhart, H. A.
 Selser, S. S.
MILFORD—Klein, T. R. J. & Son
MILTON—Leh, Dennis (Slate)
 Martz, P. R.
MINERSVILLE—Martz, J. F.
 Witman, August
MONACA—Heidrick & Taylor
MONESSEN—Bearer, H. J. & Co.
MONONGAHELA—Downer Bros. (Slate)
MONROETON—Smalley, Geo. H.
MONT CLARE—Logan, A. L.
MOORES—Gould, M. D.
MORGANTOWN—Foreman, Lott B.
MORTON—Manning Bros.
MORWOOD—Groff, H. W.
MOUNT CARMEL—Beddall & Wardrop
 Bergstreser, Sam'l E.
 Phillips, Wm. H.
 Williams, H. H.
MOUNT JOY—Buohl, John H.
 Webb, Jas. E.
MOUNT OLIVER—Bametzrieder, Henry
 Wagner, John S.
MOUNT PLEASANT—Metz, David
 Patterson, G. W.
 Smith, W. H. & Son
MYERSTOWN—Drybred, I.
 Smith, T. H.
NANTICOKE—Hill & Evans
 Lecher, Chas. H.
NATRONA—Hookey, N.
NAZARETH—Bardill, John F.
 Fulmer, Joseph
 Messinger, Frank
NEW BETHLEHEM—Anderson Hardware Co.
 Cribbs & Fox
 Martin, J. E.
NEW BRIGHTON—Bestwick, G. A.
 Derrickson, Alfred (Slate & Metal)

Funkauser, S. H. & Co. (Slate & Metal)
 McDaniel, R. B. Co. (Slate)
 Reehl, P. H. (Slate & Metal)
NEW CASTLE—Carr, J. C.
 Dickson & Co.
 Dunlap & Sons
 Hannon, Joseph (Slate & Metal)
 Hellman, William (Slate & Metal)
 McBride Bros. (Slate & Metal)
 McClelland, A.
 Meyer, Geo. F.
 Pisor, M. C.
 Welch Hardware Co.
NEW CUMBERLAND—Kister, Harry E.
 Lenhart, De Lancy Y.
NEW HOLLAND—Davis, I. G. & Son
NEW KENSINGTON—Masters, Robinson & Crooks
 Miller, Harris
 Pflough, W. J.
 Seybold, S. R.
 Speer, A. L.
NEWPORT—Burd, S. W.
NEWTOWN—Lundy & Shinn
 Phillips, John W.
 Smith, W. A.
NICHOLSON—Driggs & McConnell
 Stephens, Bert D.
NORRISTOWN—Boyer, J. Frank Plumbing & Heating Co.
 Cressman, J. T.
 De Sohns, Geo. B.
 Johnson, W. F.
 Keisen, Oliver
 Neiman & Frey
 Quillman, Benjamin (Slate & Metal)
NORTH EAST—Phillips, L. J. (Slate)
 Selkregg Hardware Co.
NORTHUMBERLAND—McAlister, Clarence
 Yeager, Geo. W.
NORTH WALES—Leister, J. H.
 Meyers, Wm. H.
 Shearer, Abel K.
OGONTZ—Horner, Maurice P.
OIL CITY—Booker Sheet Metal Works
 Carson, J. M.
 Parks, F. G.
 Snyder Bros. (Slate)
OLEY—Carl, Jonas
 Yoder, F. D.
OLYPHANT—Mackey, M.
 Sullivan, J. F. & Co.
ORWIGSBURG—Long, James H.
OXFORD—Burling, Wm.
 Ivilon & Armstrong
 Manyoun, T. J.
PALMERTON—Benninger, Abraham (Slate)
PARADISE—Le Fevre, Nat'l J. & Son
PARKER FORD—Mull, Mahlon O.
PARKERSBURG—Cromleign, S.
 White, Peter D.
PARKERS LANDING—Dunlap, E. F.
PARSONS—Trethaway, Thos.
 Trethaway Bros.
PATTON—Harper, J. C.
PEN ARGYL—Bieler, C. & Son
 Correll, R. S.
PENBROOK—Wagner, Reuben N.
PENNSBURG—Diehl, Wm. B.
 Steckel, V. H.
PERRYSVILLE—Winner, J.
PHILADELPHIA—Abrams, Harry, 851 N 10th
 Abronski Bros., 1615 Stiles
 Acton, H. C., 738 S 20th
 Allard, Frederick J., 16 Harvey, Gtn.
 Altman, Alex., 948 N 7th
 Altman, Louis, 932 N 7th
 Amberg, F. Co., 805 N 13th
 American Metal Cornice Works, 1124 Ontario
 American Roofing Co., 1535 Ridge av
 Apker's, Henry Sons, 1514 E Passyunk
 Arensberg, William, 933 S 6th
 Armstrong, Charles W. (Comp., Gravel, Tin, Slag & Slate), 46th & Lancaster av
 Arnapolsky, Louis, 1506 S 7th
 Arnd, Charles A., 3527 Haverford av
 Auerback, Isaac, 623 S 3rd
 Bader, Chas., 2237 N Front
 Baile, Robert, Co., 815 S 19th
 Bailey, Edw. J., 511 Richmond
 Baker, Warren, 1600 N Front
 Banish, Andrew, 1939 S 8th
 Baral Hardware & Heating Co., 1024 Columbia av
 Barrett, John C. (Comp., Gravel & Slate), 16th, c Ellsworth
 Bartholomew, R. & Son, 445 Norris
 Basford, Erickson & Co., 26 Armat
 Basile, John, 744 S Front
 Battisto, Nicholas G., 1329 S 10th, Gtn
 Bauer, Christian H., 1233 Poplar
 Bavington, Andrew D., 2115 Oxford
 Beaumont, Jas., 49 W Rittenhouse, Gtn.
 Behre, Ferdinand L., 3210 York
 Benkler, George, 1401 N. Fawn

Benkler, Philip (Comp., Gravel & Slate), 1927 N 5th
 Benner, Geo. W., 2505 Germantown av
 Berman, Morris, 1024 S 3rd
 Berman, Noah, 607 Bainbridge
 Berman, Samuel, 805 N 13th
 Berner, William, 2700 N 5th
 Besofsky, Samuel, 1634 S 2nd
 Beswick, Richard, 330 S 4th
 Beyer, Irwin H., 1488 N 52nd
 Blschoff, Jacob G., 2958 Frankford av
 Black, Edwin C., 1720 Fkd av
 Black, Morris, 619 Pine
 Blaker, I. & Son, 722 S. 3d
 Blaker & Goldstein, 313 S. 5th
 Bleacher, Louis, 709 N 3rd
 Blefgen, Henry J., 868 N 4th
 Blumbach, Harry, 403 S 6th
 Blythe, John H., Jr., Cottman cor 2nd St
 Pk Fox Chase
 Bohem, A. & G., 15th & Federal
 Bonner, A. J., 1633 N 2d
 Bortel, E. S. Co. (Slag, Slate, Metal & Tile), 1801 Market
 Boswell, Walter, 930 Old Soldiers' Rd, Lawndale
 Brady, James T., Jr., 2511 E Clearfield
 Brenner, Ed., 1650 Gtn av
 Brenner, Chas., 1744 E Passyunk av
 Brinkmann Bros. (Gravel, etc.), 2617 Frankford av
 Broadbent, Chas. W., 1635 Lombard
 Bromwell, Chas. E., 2140 S. Simpson
 Brown, David P., 2302 N 29th
 Brown, Geo. (Tin), 617 Cherry
 Brown, H. J., 905 Fairmount av
 Brown, Joseph E., 1003 Race
 Brown, Samuel, 1203 S 7th
 Brown & Welsh, 719 Sansom
 Bruggia, Vincent, 917 Christian
 Buchert Bros., 1602 Venango
 Buchy, Henry A., 7320 Woodland av
 Buckman, Geo. W., 1840 Poplar
 Buckman, Stephen A., 1905 Ridge av
 Buehler, John L., 902 N 26th
 Bulley, Jno., 1866 N Taney
 Buzby & Helleman, 5324 2d st pk, Olney
 Byrd, John (Copper, Tin, Slate & Tile), 1427 Catharine
 Call & English, 339 N Lawrence
 Calverly, Geo. H., 1319 Parrish
 Caplan, Israel, 802 S 6th
 Carlin, Philip, 1743 Venango
 Carney, Jno. J., 1123 Christian
 Carr, Jno. E., & Son, 4118 Lancaster av
 Carre, D'Angell H. (Est. of), 143 N 13th
 Carrigan, Peter, & Son, 114 N 5th
 Carroll, Wm. D., 2316 N 27th
 Cassidy, James, 801 Noble
 Cattie Bros. Co., 1708 N Howard
 Cave, John C., 6149 Haverford
 Chambers, John, 706 S. 19th
 Chew, Wm. A., 306 Spruce
 Chidister, Chas. R., 3626 N Smedley
 Clad, V. & Sons (Inc.), 12th nr Locust
 Clampman, Chas., 919 S 6th

CLASON SNOW GUARD

428 Kinsley av, Providence, R. I. (See adv. index, end of book)
 Clausius, Frank, 929 N 11th
 Clayton's, F. B. Sons, 1222 Race
 Coburn, Geo. A., 7216 Gtn. av, Gtn.
 Coburn, George R., 7314 Germantown av
 Coffey, Richard H. (Comp., Gravel & Slate), 1914 N 5th
 Cohen, Bernard, 336 S 3rd
 Cohen, Israel, 1320 S Fairhill
 Cohen, Julius, 736 S 6th
 Colbanovsky, Robert, 1426 S 7th
 Colbert, F. M. (Comp., Gravel & Slate), 5205 Baltimore av
 Collier, Charles A., & Son (Tin), 2052 Fairmont av
 Columbia Heating & Roofing Co., 6212
 Connor, Francis E., 2838 D. Gray's av
 Cooney, John, 424 N 12th
 Cooney, Thos., 1710 S 10th
 Copes, Edwin L., 214 Washington av
 Corbaman, Fred'k, 927 S 5th
 Corbaman, Max, 927 S 5th
 Corbin, James W., Union av nr Oak la
 Cornell, Hugh T. (Slag & Gravel), 1845 N 6th
 Cortright Metal Roofing Co. (Inc.), 50 N 23d
 Covelli, Giuseppe, 928 S 10th
 Cranston, Alfred, 2527 N 2nd
 Curran, Thomas J., 4524 Baltimore av
 Daub, Chas. E., 1322 Fkd av
 Davis, C. H., Nedro, c York rd, Btown
 Dawson, James, & Son, 3535 N 5th
 Dawson, John P., 3625 Longshore Tac
 Decker, Jno., & Son, 2704 Girard av
 Delaney, Martin J., 2023 Rowan

Delaney, Roger H., 5856 Magnolia, Gtn.
 Devlin, John J., 2814 Bridge bldg
 Dickson, Jno., 105 E Chelton av Gtn
 Didow, Abraham, 425 Wood
 Diehl, Wm. W., 909 N American
 Dillon, Francis T., 1206 Federal
 Donin, Nathan, 1413 S 4th
 Donnell, Joseph, 630 S 19th
 Donnelly, James P., 2001 E Elkhart
 Donnelly, John P., 938 W Huntington
 Donovan, Emmet, 614 S 52nd
 Donovan Bros., 516 S 60th
 Dool, Samuel, 3410 Richmond
 Douglas, J. V., Construction Co., 1738
 Dragan, Philip, 2046 South N 11th
 Drucker, Isaac, 1419 S 7th
 Duffey, Thos. C., 302 N Frazier
 Dunn, Harry A., 414 McClellan
 Dux, John F. (Comp., Gravel & Slate), 2239 N 2d
 Earle, Wm. (estate of), 2132 Callowhill
 Ebner, Frederick C., 2809 Gaul
 Eisenhower, Leon D., 2008 S Juniper
 Elliott, Andrew G., 6845 Gtn. av
 Ellis, G. D., & Sons Co., 229 Vine
 Endress, George, 700 N 3rd
 Enterprise Cornice Works, 4714 Market
 Eppler, Peter, 1800 S 10th
 Esmond, Daniel, 1943 N 2d
 Evans, Othaniel B., 1635 N 26th
 Eureka Roofing Co., 5221 Market
 Fairley, Alex. W., 1609 N 17th
 Fehrlie, Thos. F., 2666 Coral
 Filbert Paving & Construction Co. (Comp., Gravel & Slate), Pennsylv-
 Flnck, J., 403 N 60th vania bldg
 Fine, S. D., 905 S 16th
 Fischer, Frank C., 823 Spring Garden
 Fliter, Isaac, 611 Lombard
 Flounders, E. L., 1337 Poplar
 Flynn, Patrick, 1745 Fernon
 Foertsch, Geo. H., 271 Susquehanna av
 Foley, Jos. F., 1132 Callowhill
 Foster, Fred'k, 805 Spring Garden
 Foster, Thos., 402 Richmond
 Fow, Benj., & Sons, 210 N 2d
 Fox, A. G., 1624 Passy'k av
 Frearson & Hanlon, 315 E. Haines, Gtn.
 Freedberg, Abraham, 1433 S 8th
 Frey, Gottlieb, 1250 N 10th
 Friedberg, Morris, 766 S 5th
 Fuss, John, 4807 Richmond
 Garges, Benjamin F., 1943 Brunner
 Gans, John H., 2908 Gtn av
 Gara, McGinley & Co. (Comp., Metal, Slate, Tile, etc.), 23 S 17th
 Garraty, James F., 4089 Lancaster av
 Gassner, Thos., 4530 Greene, Gtn
 Gebhardt, Jacob, 515 W Mt Pleasant av
 Gelger, Gustave, 4924 N Uber Mt A
 Gelssel, J. H., 2218 N 29th
 Geissler, Chas. F., 3211 N 17th
 Genasco Roofing Co., 2242 Land Title bldg
 Gibson, Peter, 3213 Germantown av
 Gildenfenny, Chas. H., 7115 Woodland av

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv. index, end of book)
 Giltman, Max, 246 Monroe
 Girard Cornice & Roofing Co., 2318 Market
 Gold, Benjamin, 1404 S 2nd
 Goldberg, Harry, 237 N 5th
 Goodleman, Harry, 706 S 3rd
 Goodwin, Fred O. (Comp., Gravel & Slate), 554 N 53d
 Goodwin, William, 3300 N 21st
 Gottschall, Llewellyn W., 4849 Lancaster
 Graber, Francis, 2306 N 3d av
 Green, Louis, 206 Monroe
 Green, Jeremiah J., Edmund, nr Long-shore, Tac.
 Grey, James, 1219 Cadwallader
 Gross, Wm. A., 2210 E Norris
 Gross, Wm. E. (Comp., Gravel & Slate), 1224 Oxford
 Grover, Thos. E., 1115 S. 47th
 Guenther, R., 227 Brown
 Hack, John C., 1400 S 8th
 Haines, Geo. W., 1619 Catharine
 Hammer, J. B., 6104 Germantown av
 Hansell, Geo. H., 6102 Ridge av
 Harbolsheimer, Chas., 926 N 28th
 Harken, Samuel, 2135 S 8th
 Harrington, Lucien H., 4541 Woodland av
 Harris, Joseph S., 2027 E Dauphin
 Harris, Samuel, 2101 Lombard
 Hart, Christopher, 33 E Graver's la, C Hill
 Hart, James J., 2311 Callowhill Hill
 Hartman, Alvin F., 2939 N 22d
 Hawthorne, Joseph J., 1724 Moyamensing
 Haybeck, Philip, 2300 Cedar av
 Heard, James, 1819 Church, Fkd.

Heath, Albert S., 1018 Somerset
 Hechner, Geo. K., 1231 Vine
 Hendricks, Jacob, 2361 N 6th
 Hendrickson, John C., 1508 Thompson
 Henry, Michael J., 2229 Berks
 Herlock, Asa, 208 McKean
 Hermann, Andrew, 1300 Newkirk
 Hicks, S. & J., 5414 Vine
 Hilley, Philip C., 305 N 2nd
 Holden, H. C., 4830 Fkd. av
 Hone, Francis, 321 Callowhill
 Hopely, Philip F., 2341 N 9th
 Hopkins, Samuel K., 1226 N 11th
 Hopkin, Wm., Jr., 22 E. Rittenhouse
 Hopkin, Warren, 8023 Roanoke, C Hill
 Hopkins, Samuel K., 1226 N 11th
 Hopkinson, Samuel, 1421 Frankford av
 Horner, Abraham L., 121 N 6th
 Horter, Augustus, 2515 Ridge av
 Howell, Joseph E., 5501 N Fairhill
 Hughes, Geo. W., 313 Walnut
 Hurlock, Asa (Comp., Gravel & Slate), 1929 S 3d
 Hurley, Isaac T., 3117 Spring Garden
 Hurlock, John, 720 Wolf
 Hushen, Michael, 1903 Pine
 Husted, Dorsey G., 144 Brown
 Ingram, W. H., 106 N 3d
 Israel, Nathan, 1042 S 4th
 Itzstein, Fredk J., 1217 N 4th
 Jacobs, Solomon, 619 Wood
 Jaspán, S., 226 S 2nd
 Jessen, George, 14 E Passyunk av
 Jester, Oliver (Est.), 5330 Gtn. av
 Johns, H. W.-Manville Co. (Asbestos), 23 N 2d
 Johnson, T. S., 622 Cherry
 Johnston, Robert, 520 S. 23d
 Joneck, Louis, 2054 N Warnock
 Jones, Evan, 5114 Lancaster av
 Jones, Howard, 752 S 51st
 Jones, Joseph, 2118 Gtn av
 Josopait, F. W., 534 Master
 Kahn, Simon, 640 W Moyamensing av
 Kamp, Martin C., 519 S 13th
 Kaucher, Fredk. M., 2724 N 5th
 Kane, Harry, 402 Poplar
 Kanter, Samuel, 436 Poplar
 Kaplan, Abraham, 727 Callowhill
 Kazakow, Abraham, 1229 N 2nd
 Keever, John S., 5815 Haverford
 Keller, Emil M., 5550 Haverford
 Kelley, Joseph V., 4055 Lancaster av
 Kensley, R. E., 2531 Brown
 Keohane, John J., 1637 N 13th
 Kershaw, Thos., & Son, 4528 Lancaster av
 Keystone Roofing Co., 2217 N 12th
 Kimes, Jessie B., & Co. (Slate, Gravel & Comp.), 1822 Filbert
 Klirkman, Frank, 4909 Aspen
 Klirst Bros., 434 Spruce
 Klein, Alexander, 2221 N 28th
 Klein, Hyman, 474 N 6th
 Knodel, Emil, 7 Glrard av
 Knowlan, James (Comp., Gravel & Slate), 45 N. 13th
 Kolb, Michael, 3950 N 6th
 Kolenski, John, 2388 Orthodox, Fk.J.
 Koons, Fredk S. E., Huntingdon Pk nr 2nd St Pk
 Kornbau, Herman, 717 Oxford
 Koroboy, Samuel, 600 Jefferson
 Krachman, Kalman, 938 S 3rd
 Kramer, Jacob, & Son, 128 Cumberland
 Kramer, Morris, 906 S 3rd
 Krause, Simon, 906 N 3d
 Krieger, Louis, 3113 Gtn. av
 Kulzer, Michael, 3005 N Marshall
 Kunkely, O. F., 2629 Columbia av
 Kunkely, Wm., 1541 N 28th
 Kunz & Henrichs, 907 Locust
 Lambert, Chas. W., 2226 E Cumberland
 Laning, Jos. M., 3000 Cumberland
 Lantman, J. & G., 3430 Chestnut
 Larimore, Jas. T., 1800 N 12th
 Lawler, John P., 1514 N 23rd
 Leathers, Nathan M., 5134 Lancaster
 Lees, M. Ranfield, 432 Krams av, Myk
 Levering, Frank, 3203 Cresson Falls
 Levin, Lewis, 421 S 7th
 Lewis, Henry, 167 Walnut La, Wiss
 Lewis, Hubert W., 2009 E York
 Lewis & Raschke, 3049 N 5th
 Lieberman, Morris, 2042 Gtn av
 Lienemann, Fredk B., 1521 Mifflin
 Limerick, J Hunter, 1602 Kater
 Lindgren, J. V. (Comp., Gravel & Slate), 1338 Jackson
 Locke, Hiram W., 1916 York
 Lorenz, Chas., 439 N 10th
 Lowry & Lynch, 1508 Ridge av
 Lupton's, David, Sons Co., Allegheny av. & Tulip
 Luttrell, Thos. J., 3830 Market
 Lynch, Jno. F., 133 E. Chelten av, Gtn.
 McAllister, James, 16 S 53d

McAvoy, James, 1524 S Lambert
 McBride, Peter J., 636 S Rambrey
 McCarthy, Wm., 2914 Fletcher
 McCartney, Terence J., 1731 Christian
 McCartney, T. J., & Co., 1731 Christian
 McCarty, J. F. (Gravel, etc.), 3035 Ridge av
 McDonald & Smith, 1821 Church, Fkd.
 McElhiney, Jas., 3616 Lancaster av
 McFassel, E. M., 4801 Woodland av
 McGrath, Edw. (Slate, Gravel & Comp.), 1534 Fkd. av
 McGrath, John, 3165 N 5th
 McGrath, Thos. J. (Slate, Gravel, etc.), 1930 N 2d
 McGuigan, Cbas. F., 19th cor Huntingdon
 McKenna, John (Comp., Gravel & Slate), 1827 E Somerset
 McMillan, Frank, 5432 Tacony, Fkd.
 McMurtrie, John S., 818 Green
 McSorley, Frank J. (Comp., Gravel & Slate), 113 N 6th
 McWade & Sharp, 50 N 3rd
 MacCrary, John, 1424 Catharine
 MacLean, Geo. B., 3655 Woodland av
 MacNelle, Geo. A., 1829 Passyunk av
 Mahood, Wm., 1723 Wood
 Manlove, Alfred P. C., 1900 S 7th
 Mannin, Ed. N., 1536 E Hewson
 Margerum, George W., 2745 Kensington
 Markowitz, Zigmund, 606 S 7th av
 Marples, T. E., 2509 Fkd. av
 Marshall, John H., 2101 E Clearfield
 Mason, E. J. (Comp., Gravel & Slate), 263 S 12th
 Matthelsz, J. H., 1625 S. 17th
 Meade Roofing Co. (Slate, Metal & Tile), Woodland av & 46th
 Mearns, Job B., 267 S 10th
 Mercadanti, Biagio, 1154 Passyunk av
 Messick, W. H., & Son, n w cor 6th & Michelson, Isaac, 1310 S 7th
 Miller, David R., 1506 S 13th
 Mills, A. W., Grays Ferry av, cor 47th
 Mills, Thos. & Bro. (Inc.), 1301 N 8th
 Mitchell, Samuel, 3159 Gtn. av
 Mitkow, Abram, 802 S 2nd
 Mogulewsky, Simon, 1115 Passyunk av
 Monaghan, Peter J., 1140 Dauphin
 Mooney, Edw., 2325 N 30th
 Moore, Alexander, 523 Race
 Moore, Andrew J., 523 Race
 Moore, Jas. R., 3004 Rorer
 Moore, Roht., 1711 McKean
 Morris, Harry, State rd, c Longshore, Tac.
 Morrison, Andrew G., 1619 Bainbridge
 Morrison, J. W., 8014 Fkd. av
 Mueller, G. Arthur, 1908 Gtn av
 Muller, Frank, 3326 N 5th
 Mulholland, J. & Bro. (Slag), Trenton av cor E Firth
 Munro, H. F., 1740 Gtn. av
 Munsloe, John, 2119 Vine
 Murphy, Albert, 1933 Callowhill
 Murray, M. S., 3521 Haverford
 Murray, Wm. M., 3516 Haverford
 Mushoff, Harry, 441 E Glrard av
 Musselman, Oscar L., 1752 Hunting Park
 Myeroff, Nathan, 209 Pine av
 Nace, Henry J., 308 N 3d
 Nacey, John, 7105 Woodland av
 Naegele, Jno. A. (Tin), 5622 German-town av
 Nagel, Fredk., 1528 N 4th
 Nagel, Fredk., 4619 2d st Pk
 Nagel, Harry C., 1706 Venango
 Nelman, Warren, 1808 Adams
 Noll, Peter H., 2044 E Monmouth
 Noone, Andrew J., 1635 Venango
 Norris, Wm. N., 2070 E Clearfield
 Odyke, Benjamin P., 1219 Callowhill av
 O'Hara, Patrick, 427 Watkins
 Oberholtzer, G. P., 949 N 12th
 Oldroyd, F., 2455 N 5th
 O'Neill & Melling, 4223 Frankford av
 Ott, John P., 1525 S 8th
 Ottinger, Henry, & Co., 2125 Market
 Paessler, Otto F., 2853 N 5th
 Palmer, Harry K., 4029 Lancaster av
 Parmer, Oscar E., 2407 N 18th
 Pangborne, Jas. H., 2015 N 18th
 Patterson, Jos., 2533 Hope
 Patterson, Samuel, 2903 N Front
 Patton, Thos., 1605 Lombard
 Pearlman, Nathan, 802 S 4th
 Penn Metal Ceiling & Roofing Co. (Ltd.), 23d, c Hamilton
 Petrific Paving & Roofing Co., 3345 Market
 Pfeiffer, Henry, 305 Diamond
 Philadelphia Tinning & Galvanizing Works, 1703 N Howard
 Phy, John B., 835 N Holly
 Porter, Samuel C., 1902 N 8th
 Power, A. E., 309 N 53d
 Preston, Harry J., 616 S. 21st

Preunthun, John F., & Co., 10 N Vogdes
 Pulvermacher, Benj., 546 N 2d
 Quaker City Paving Co., 45 N 13th
 Quigley, Ed. L., 6719 Crownson Gtn
 Quigley, Francis B., 624 S 11th
 Quigley, J. J., & Son, 1342 Ridge av
 Quinn, A. M., 1420 N. 20th
 Quinn, Joseph A., 5941 N Beechwood
 Quinn, Thomas N., 5717 Knox, Gtn
 Randolph, Samuel, 1749 S 4th
 Rappaport, Abraham, 1014 S 4th
 Rath, Jacob, 33 E. Chelten av, Gtn.
 Raynor, Wm. C., 1815 S 11th
 Read, Wm. N. (Metal, Slate, Tile, etc.), 30 N 7th
 Real Estate Improvement & Repair Co., 2100 N 29th
 Real Estate Roofing Co., 23d & Arch
 Reed & Gordan, 6560 Gtn av
 Reeder, Geo. A., 1213 N 5th
 Reichman, Geo. F., 3051 N Carlisle
 Reid, P. J., 195 N 4th
 Reuss, Ed. H., 4524 Baltimore av
 Reth, Jacob, 1630 Gtn av
 Rettberg, Ernest, 222 N 11th
 Reynolds, Thos. J., 1352 E. Psyk. av
 Rhoads & Maloney, 429 N 3d
 Richards, Edw. W., 2146 E. Norris
 Richman, Walter H., 1236 N 10th
 Richter, John H., 2310 N 28th
 Rickert, Wm. J., 2264 N 5th
 Riemenschneider, Geo. L., 3001 N Leithgow
 Rieder, Geo. A., 1213 N 5th
 Ritter, H., 1446 N 10th
 Robertson, Jas. G., 6375 Germantown av
 Rorke, P. J. & Co., 140 N 56th
 Rosenthal, Joseph, 482 N 4th
 Ross, Lewis R., 2429 E Norris
 Rossmucker, Herman, 1918 E Passyunk av
 Roth, Chas., 2106 E Dauphin
 Ruger Bros. (Slate, Gravel & Metal), 1603 N 4th
 Sablin, F. & Co., 237 Bread
 Saffian, Leon, 1016 Glrard av
 Salb, Wm., 148 Fairmount av
 Saling, G. A. & Son, 501 N 62nd
 Salinger, Chas., 1022 Ridge av
 Salomon, Asher, 909 N 6th
 Schleifer, Jacob E. & Co., 1323 Hancock
 Schluch, Peter, 4309 N Orianna
 Schmidt Bros., 1446 N 10th
 Schmitt, Edward F., 521 Ludlow
 Schnitzler, Chas. H., 215 N 2d
 Schreiber, Wm. H., 410 S 12th
 Schuehler Bros., 142 Edward
 Schwakopf & Highland, 725 Spring Garden
 Schwartz, Albert, 812 Poplar
 Schwartz, Geo., 1326 Olive
 Schwartz, Samuel, 815 S 3rd
 Schwartz, Wm., 912 S 3rd
 Schwelker, Wm. G. (Comp.), 2623 Jefferson
 Schwelkerath, Chas. F., 524 Glrard av
 Schwinn's, Geo. W., Sons, 1416 W Dauphin
 Scott, John W., 437 N 7th
 Seltzer, Henry R., 1722 Poplar
 Searle, Chas. P., 722 S 16th
 Seldeman, Nathan, 1341 S 4th
 Seldman, Joseph, 1707 S 9th
 Seybert, Henry G., 1007 Christian
 Shaffer, Chas., 6129 Vine
 Shannon, H. J. (Comp., Gravel & Slate), 1710 Federal
 Shannon, Jas., 1704 Jackson
 Shannon, Wm., 1710 Federal
 Shapcott, Abraham, 700 N 23d
 Shea, James M., 2955 Richmond
 Sheridan, Jos. F. (Slate, Gravel, Metal & Comp.), 1916 Dickinson
 Sherman, H., 1900 S 10th
 Schroeder, Paul A., 910 Jefferson
 Shubert, Geo. W., 3531 Market
 Sicer, Chas. W., 2557 Welder
 Siddall, John, 2239 Callowhill
 Sidebotham, Harry, Dickinson cor Ringold
 Silver & Morrison, 1226 S 3rd
 Simpson & Murray (Slate, Felt, Gravel & Metal), 1719 Christian
 Smith, Chas., 5547 Chester av
 Smith, George, 206 E Indiana av
 Smith, Horace, 5008 Dltman, Fkd.
 Smith, Hyman, 2016 S 4th
 Smith, Wm. H., 3241 Frankford av
 Smith & Shuster, 1318 Glrard av
 Smollock, Joseph A., 2401 S Alder
 Snodgrass, Richard P.
 Snyder, Charles S., 3366 Amber
 Souders, Willis, 239 Cumberland
 Steele, Chas., 2119 Fitzwater
 Still, Wm. W., 8053 Fkd. av
 Street, Adam J., 24 S 52d
 Stumm, Chas., 1539 S 2d
 Stumm, Ed., 1233 Passyunk av
 Sturlinsky, Jacob, 419 Lombard
 Summers, Edgar, 2318 Coral
 Summit Roofing Co., 217 Quarry

Sutton, Joseph, 1410 Green la Btown
Taylor, Frank W., & Son, 259 S 4th
Taylor, Jno. H., 726 S 8th
Thomason, Wm. J., & Sons, 108 Arch
Thompson, John C., 4332 Fkd. av
Thorn, J. S. Co. (Copper, Iron, etc.), 20th
& Allegheny av

Tierney, John J., 2023 St. Albans
Tomes, Eugene O., 252 Diamond
Tosend, Wm. H., 1020 S 13th
Trevethan, James W., 3518 N 35th
Turner, Richard, 126 E Chelton av, Gtn
Tzllman, B., 915 S 3rd
Udowitz, Jacob, 707 S 5th
Uffleman, Charles C., 15 N 41st
Viehmann, Geo. L., 2122 South
Vigners, E. W., 3814 Lancaster av
Wagner, Paul, 177 Tloga
Wagner, Wm. T., 1415 Locust
Wainwright, John W., 4633 Fkd. av
Walker, Isaac, 670 N Park av
Wallen, A. J., & Son, 1400 S 20th
Warren-Ehret Co. (Comp. & Slag), Land
Title bldg

Waselkoosky, Jacob, 433 N 4th
Weaver, Stephen B., 1722 Bellevue
Weekly, Thos. J., 2103 S 6th
Weer, Geo. P., 114 Indian Queen la Falls
Weintraub, David, 1103 N 3rd
Weiss, Fredk. J., 2305 N 7th
Weiss, J. U., 1118 Poplar
Welch, Howard J., 34 W Mt. Pleasant av.
Weich, John H., 1316 Ridge av Gtn
Welsh, P. J., 1117 S 20th
Werner, Wm., 2136 N 2d
West, Andrew H., 241 Raee
West End Cordee Works, 16 N 59th
West Philadelphia Roofing & Heating
Establishment, 46th & Lancaster av
Widmaler, Gustav, 507 Susquehanna av
Wiedersum, Wm. S., 2452 N 2nd
Wilhelm's, Theodore Sons, 128 N 16th
Wilkins, Harry W., 627 York
Williams, John, & Son, 2203 Frankford
av

Williams, Ralph, 2450 Montgomery av
Williams, Robt. C., Jr., 162 N 7th
Williams, Wm. E., 28 S 18th
Wilson, Robert S., 1628 N 7th
Wilt, Joseph A., 2224 E York
Wise, Edw., 419 Fairmount av
Wohlfarth & Greenfield, 218 Arch
Wonn, Joseph & Co., 769 Markoe
Woods, Thos. J., 420 South
Wright, Marlin A., 3409 Gtn av
Yackly, Harry T., 4638 Westminster
Zahn, G. Walter, & Bro., 5190 Lanc. av
Zlausins, Frank I., 929 N 11th
Zozov, Morris, 1620 S 6th
Zuhlin, Samuel, 1210 S 4th
Zuhlin, Samuel, 1210 S 4th

PHILIPSBURG—Bortel, Geo. E.

Travel, Wm. H.
Musser, Robert

PHOENIXVILLE—Caswell & Moore (Slate,
Metal & Corrugated Iron)

Sturges, Wm. E. (Slate, Felt & Metal)

PITTSBURG—Alexander, Wm. F., Welles-
ley av & Jancey

Alter, Hiram, 13 Brushton av
Angermeyer, W. F. Co., 7200 Henry av
Arndt, Herman & Co., 2062 Chartiers, N S
Baetz, Mrs. M., 811 Chestnut, N S
Bayless, R. F. & Co., 7732 Frankstown av
Banze, Wm., 5221 Butler
Belter, Fred., & Son, 243 1st av
Belwar Heating Co., 1121 Murland
Blindley Hardware Co., 429 7th av
Blank, Herman, 5162 Coral
Brewer & Thurst (Slate), 113 Manton
Brice Bros., Curry bldg
Briley, Chas. A., 1003 Forbes
Brown, John W., 654 Lenora
Bryar & Schnffer, 30 Larimer
Burns, John & Co., 409 Robinson
Champ, W. H., 805 Lincoln av
Couts, Fleming & Co., 4th nr Chartiers av
Crawford, Luther, 7733 Baxler
Crist & Schilken, 543 4th av
Dages & Co., 2056 Chartiers av, N S
Davis Bros., 204 Dilworth
Davis Roofing Co. (Gravel), 6376 Frank-
town av
Doran, W. T. (Gravel), 19 Junilla
East End Cornlee & Roofing Co., 7732
Frankstown av
Echement, Aug. A., 1208 Grandview av
Ehmann, J. W. (Gravel), 1637 Forbes
Emuck, John D. (Slate), Wabash bldg

Francis, John E., 7209 Hamilton av
Fortenbacher & Son, 538 Ohio, N S
Fuhrer, Anthony G., 4507 Liberty av
Gantner, Wm., 9 Decalnr
Gelb, John, 127 Ridge av, N S
Gemisco Roofing Co., Bessemer bldg
Gierl, Alois C., 34 Spring Garden av, N S
Graff Bros., 5912 Penn av
Hahn Bros. (Slate, Tin, Tile & Gravel),
3 Magee

Hart, W. V., 5 Robinson, N A
Hartzell Bros., 1325 Sheffield, N S
Helt, G. P., 1915 Sedgwick, N S
Helt, Frank W., Perrysville & Ellis avs,
Heule, Albert S., 1336 Penn av N S
Henzel, C. H., 3217 Penn av
Herboldsheiner, John B., 136 Washington
av

Hill Top Roofing Co., 138 Arlington av
Hite, Frank, 5987 Center av
Hoffman, Philip (Slate & Comp.), 3313
Hollman, T. J., 3455 Ridge Ward
Iron City Roofing Co., 6943 Frankstown av
Johnson, A. H., 605 Grant
Johnson Bros., 4 Industry
Klin, Geo. F., 3522 5th av
Klucaid Bros., 211 Water
Kirk, Chas. H., 1018 Beaver av, N S
Kirsch, Jacob, 4725 S Atlantic av
Klein, Harry, 30 Federal
Klein, Joseph, 17 Townsend
Knodell, W. H., 510 Diamond, N S
Kohler, Paul, 21 Brady
Kunzler & May (Gravel), 55 S 10th
Lahr, Peter, 205 S Canal, N S
Lamneck, Daniel, 120 Maple
Le Goullon, P. (Slate, Tile, Gravel, Ac-
tinolite & Slag), Bessemer bldg
Lehne, Fredk. Jr., 34 Southern av
Liebelt, Henry (Slate), 23 Bigham
Lincoln Heating & Roofing Co., 6440
Frankstown av

Limbach, Frank, 1620 Lowrie, N S
Link, J. & Son, 1918 East, N S
Logan, C. W., 335 Lincoln av
Longdon, H. & Sons (Slate), Center av
& Sheridan

Losey Furnace Works, 2115 Parcelo
Luckhardt, Louis, 85 Sweetbriar
Lupton, W. B. & Co., Bessemer bldg
Lyons, James H., 130 Hazlewood av
McCaw, T. W. Roofing Co., 104 Erie, N S
McClelland & Ray, 912 Homewood av
McClure Co., 14 4th av
McCombs, Wm. P. (Gravel), 2101 Carson
McGarvey, John, 72 Taggart, N S
McGraw's, J. A. Bros., 220 Sandusky, N S
Mellvalne, Geo. D. Co., Keenan bldg
McSteen, Bartley J., 6943 Frankstown av
Maren, S., 1523 Allegheny av, N S
Mellenkamp, Frank, 90 Washington av
Meyer, Geo. J., 3101 Niagara
Miller, S. J., 6630 Brainerd
Morgan Bros., 7123 Hamilton av
Morgan, O. C., 703 Hamilton av
Mueker, Carrie E., 416 Ohio, N S
Myers, F. D., 105 Robinson, W S
National Roofing Co., 209 9th
Niele Bros. (Tin & Slate), 4320 2d av
Nimfer, A. J., 42 Rhine, N S
Nobbs, G. C., 2623 Penn av
Owens, John E., 131 S 18th
Panner, L. & P. (Slate & Tin), 3201
Smallman

Panner Tin & Slate Roofing Co., 190 S
Main

Papencordt, Walter, 3201 Smallman
Pentz, G. W., 3332 Madison
Peppel, Casper (Slate), 1906 Carson
Perritt Iron & Roofing Co., 116 Brushton
Pfeiffer, Hy. J., 80 S 15th
Phillips, Jno. (Slate), 41 Industry
Phillips & Banze, 5221 Butler
Pittsburg Cornlee & Roofing Co., 1817 Mary
Pittsburg Heating & Roofing Co., 607
Herron av

Postler, P. F., 1011 Woodbourne av
Pritchard, L. L., 269 Frankstown av
Rasner & Dinger Co. (Tin), 100 2d av
Retler, Frank, 1530 East, N S
Rosenthal, Samuel, 1714 Beaver av, N S
SCAIFE, WM. B. & SONS CO., 221
1st av. (See adv. index, end of book)
Salenfeld, F., 1203 Hazel
Sands & Creagh, Allegheny av & P F W
& C R R, N S
Schimpf, Henry & Son, 12 Rolla, N S
Schmidt, A. F., 85 McCluse av, N S
Schmidt, Geo. P. Co., 1018 Ohio, N S
Schnauffer Roofing Co., 816 Concord, N S
Schroeffel, John & Son, 316 Spring Garden
av, N S

Schwartz, F. W., 614 Wylie av
Schwartz, Nicholas, Jr., 611 Wylie av

Schwartz, H., 3035 Stayton, N S
Sleg, Fred., 7716 Frankstown av
Shil, J. E., 1465 W Liberty av
Silverberg & Saltz, 1862 Wylie av
Slomovich, Morris, 2620 Penn av
Smith, Frank E., 1618 5th av
Sweltzer, Harry W., 7632 Baxter
Thompson Bros., 1023 Lincoln av
Totten, W. R., 3600 5th av
Tranter, Samuel, Montooth nr Industry
Walker & Wilcox, 5104 Penn av
Warren-Ehret Co. (Slag, Asphalt & Acti-
nolite Tile), Arrott bldg

Weaver, C. B., 2851 East, N S
Weber, S., 2166 Wylie av
West, John (Slate), 6442 Aurella
Wetzel, A., 1223 5th av
Wetzel, John A., Ann & Magee
White, Chas. F., 1107 Curson
White, Scott A. Tile, Comp. & Slate),
Lewis bldg

Whitney, John, 1716 Wylie av
Wieseckle, Peter J., 342 Maryland av, N S
Williams, J. A. & Co., 532 Chatham
Young, J. F. (Gravel, Iron, etc.), 34th &
A V By

Zellman, Simon, 1623 Wylie av
Zwiegan, Maurice, 52 Crawford
PITTSBURG—Ash, Jno. M. (estate of), 115 N
Byrne, Jno. W.
Oliver, H., 50 S Main
Smith, F. C. & Co.

PLYMOUTH—Dymand, E. P.

Jacob, Alex.
Klamansky, Jacob
Morris, John M.
Parry, W. W. (Slate)

POTTSTOWN—Faber, George (Slate & Metal)

Geyer's, W. B. Sons (Comp.)
Hartenstine, Emery & Co.
Kepner, C. G.
March, Daniel
Mowery, P. G.
Reldenouer, Thos. S.
Unruh, L. F.

POTTSVILLE—Dimmerling, Frank

Hierbrick & Co.
Hill, Howard
Hoefel, Frederick
Hoover Co.
Lamont, Winfield S., 315 N 2d
Morris, Jos. E., 209 W Arch
Schimpf, Geo. J.
Shugars, Hiram, 322 N 2d

PUNXSUTAWNEY—Robinson Hdw. Co.

QUAKERTOWN—Dengler, Jas. A.

Gross, Albert S.

READING—Bitting, W. H., 251 Penn

Boltz, I. M. (Slate), 631 Pear
Crosby, Wm. T., 429 S 10th
Danth, Arnold, 46 Cedar
Danth, Jno. P. & Son, 18 S 8th
Ganler, Jos. B., 201 Schuylkill av
Gantert, Howard, 450 N 11th
Geissler, H. C. & Sons, 731 Penn
Grant, Chas. F., 905 N 9th
Griesemer, C. K. (Slate), 37 N 6th
Homan, N. E., 114 S 6th
Keever, E. F. (Slate), 930 Franklin
Lance, J. A. (Slag)
Lnigard, Jno., 420½ Court
Menzel, M. L.
Mereer, Albert W.

Miller, James L.

Miller, M. L., 230 Washington

Otto, J. (Es.), 643 Penn

Prntzman, Walter, 304 Penn

Rankin, R. A., 700 N 9th

Rapp, William S.

Reuser, Lewis

Relst, Reuben H.

Renninger, W. Irvin, 620 N Front

Ruth, Daniel H.

Sanser, A. B. & Co., 328 N 6th

Sechler, C. M. (Slate), 1239 Moss

Sholl, John

Sohl, Daniel H.

Wagenhorst, Frank (Est. of)

Wilson, R. L. Roofing & Paving Co. (Slag)

Yeager, Wm. B. (Slate & Metal), 8th &
Chestnut

PINE GROVE—Long, J. L.

PITCAIRN—Barnhart, W. N.

PLAINS—Wilson, John

PLEASANTVILLE—Corwin, B.

Mapes, H. C.

PORT ALLEGHANY—Gallup Hardware Co.

PORT CARBON—Brenner, Alfred E.

PORTERSVILLE—Heberling, H.

RED HILL—Rohrer, Edwin

RED LION—Boeckel, W. F.

Lichtenberger, Wm.

REDSVILLE—Heaps, Davis I.

RENOVO—Cross, Dell

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv.
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RIDGWAY—Bowen, S. E.
Smith Bros. Co., Ltd.

RIMERSBURG—Kaster, P. M. (Slate)
Stewart, B. B. (Slate)

ROCHESTER—Fleming, K. D.
Hartzel, Jno. W. (Slate & Metal)
Rochester Hardware Co.
Schmidt, W. F. (Slate & Metal)

ROSEMONT—Seidel, W. W.
Shank, C. Ernest

ROYERSFORD—Buckwalter, J. A.
Reed, Jacob & Son

ST. CLAIR—Wagner, G. B.

ST. MARYS—Burden-Rowan Co.
Sosenheimer, F. X.

SALTSBURG—Moore, J. C.
Shadle, C. C. & Son
Walter, J. H.

SANDY LAKE—Farrab, C. M.

SAYRE—Talmadge, H. R.

SCENERY HILL—Hedge, T. A.

SCHUYLKILL HAVEN—Sausser Bros.

SCHWENKVILLE—Saylor, Benj. S.

SCOTTDALE—Dick, John I. (Slate & Metal)
Miller, L. A. & Bro. (Slate & Metal)
Scottdale Plumbing & Roofing Co.
Urber, H. F.

SCRANTON—Cowles, William C., 1842 N Main
Dolphin, Martin H.
Doyle, Jas. B. & Co.
Gunster Bros.
Howley Bros. (Felt & Metal), 338 Penn av
Kempster, Conrad
Klesel, Fred
Klein, Benj.
Lennon & Co.
Leonard, T. F., 505 Lack. av
Lewis, Thomas E.
Maddock, Hopkin
Maloney, Jas. P. & Co.
Monies, Geo. B.
Murray, James J., 432 Lackawanna av
Myers Bros.
Prawdzik, Ignatz P.
Quinn, Jas. E., 436 Larch.
Reyman, John
Riefenberg & Co.
Scranton Slate & Tile Co.
Warren-Ehret Co. (Composition & Slag), 321
Wolf & Wenzel N Wash'n av
Yoss & Hess

SEWICKLEY—Bowers, W. C.
Drynan, A. & Sons
McDonald, Geo. R.
Shoop, S. T.

SHAMOKIN—Ballentine & Taby
Keiser Bros.
Smith, A. & Son
Thomas, C. B.
Unger, Warren
Weaver, Jos. J.
Yocum, Geo. C. & Co.
Zanker, A.
Zuern, Mrs. Kate

SHARON—Hannah, R. A. & Co.
Hoffman, J. C. & Bro. (Slate & Metal)
Hoffman, P. & Sons (Slate & Metal)

SHARPSBURG—Hough & Dyer
Meyer, W. H. (Slate, Metal & Asphalt)
Weisenstein, Mrs. E. D. (Slate & Metal)

SHARPSVILLE—Smith, Karl

SHENANDOAH—Bell, P. W.
Delaney, Patrick
Drumheller, William
Ellis, Daniel, Jr.
Hilderbrandt, Charles
Leach, M. J.
Morgan, Isaac
Pratt, W. R.
Waters, T. C.
Willman, G. F.

SHERIDANVILLE—Marlier & Stewart (Slate,
SHICKSHINNY—Campbell, H. E. Tin, etc.)
Woodworth, J. D. & Co.

SHIPPENSBURG—Hykes, William M. & Bro.
Rehuck, R. M.

SIEGFRIED—Beer, M. C.
Keck, M. F. S.

SLATINGTON—Dettmer & Handwerk
Fritzinger, Wm. A.

SOUDERTON—Alderfer, H. S., Jr.
Wolford, B. D.

SOUTH BETHLEHEM—Bittrick, L. F.
Laufer, Milton
Meyers, A. V.
Quier, H. F.

SOUTH SHARON—Davidson, J. E. (Slate &
Metal)

SPRING CITY—Mowrey, Latshaw Hardware

STOCKERTOWN—Miller, Thos. A. Co.

STROUDSBURG—Flory, Frank P.
Hood, S.
Pierson, John F.

SUNBURY—East End Hdw. Co.
Reed, Edw. D.
Reitz, I. J. (Slate)
Wagenhorst, J. H.
Waltz, Henry J.

TAMAQUA—Hadesty, J. M. & Son
Hodgkins & Co.
Reeser, E. R.

TARENTUM—Alter, W. S.
Baker, David
Baker, J. C.
Goldinger, G. W. & Co. (Slate)
Goodwin, W. F.

TAYLOR—Jones Hardware Co.
Morgan, J. Milford

TELFORD—Hangey, Jonah T.

TIDIOUTE—Magill, B. S. & Son

TITUSVILLE—Anderson, A. P.
Besselman, J. H.
Hughes, D. D. & Son
Kernochan & Co.
Spitler, Henry
Zook, D. M.

TOWANDA—Dye & Presee Hardware Co.

TROY—Beardsley & Colony
Dobbins, John E.

TUNKHANNOCK—Billings, Paul & Son
Shook, B. H.
Williams, A. P. & Co.

TURTLE CREEK—Kelly, A. M.
Reid, R. G.
Winters, W. L.

TYRONE—Fisher, J. W. (Graved & Comp.)
Mullen Bros.
Neil, E. R.

UNION CITY—Hatch Hardware Co.
Hayes Hdw. Co.

UNIONTOWN—Beighley, I. N. (Slate &
Metal)
Collins, N. N., & Co. (Slate & Metal)
Kefover, G. B.
Miller & Co.

UPLAND—Morris & Grimison

WARREN—Mott-Phillips Hdw. Co.
Pickett Hardware Co.
Slater, T. O. & Co.
Splinner, Wm.

WASHINGTON—Brice Bros. (Slate & Metal)
Hays, G. W. & Co.
Phillips, Chas. W. (Metal & Slate)

WATSONTOWN—Knight, F. H.
Shannon & High

WAYNE—Dunne, Peter J. (Slate, Tile & Metal)
Higgins, John
Thomas, Harry R.

WAYNEBORO—Adams, Wm. G.
Frey, C. B.
Miller, Bert.
Russel, Geo. H.

WAYNESBURG—Fisher, Henry (Slate &
Metal)
Helphenstine, Thos. P. (Slate & Metal)

WELLSBORO—Haussler, F. A.
Mitchell, W. S.
Roberts & Gardner

WEST CHESTER—James Bros.
Palmer, Geo. J.
Smith, R. H. (Slate)
Speer, J. H. (Slate)

WEST GROVE—Johnston, Hugh M.

WEST NEWTON—Holbert, W. R.
Montgomery, S. K.
Sanders, C. W.

WEST POINT—Fenshtermacher, J.

WHITE HAVEN—Keck Hardware Co.
Miller, Theo. & Son

WILKES-BARRE—Baab, Frank, S Main &
Academy
Carpenter, B. G. & Co., 30 W Market
Conner, Harry
Edwards, Morris S., 137 S River
Jones, Owen D. (Comp. & Slate), 38 Balti-
Kaiser, Wm. & Son, 153 S Main more
Liem, J. W. & Co., 215 S Main
Montanye, J. H., 36 N Main
O'Rourke, Bernard F., 320 Hazle
Schuler Bros., 76 Hazle av
Spangelberger, Parry & Co., 642 S Main
Struthers, J. R.
Turner & Van Seoy, 52 S Main
White Hardware Co.
Williams, Robert P. (Slate, Gravel & As-
phalt), 23 Hakes av

WILKINSBURG—Blackhall, Alex.
Blackhall, James
Britner, E. M. (Slate), South av & P R R
Cruzan, Elmer E., 421 Kelly av
Kearns, H. Clifford, 805 Penna av
Kurtz Bros. (Slate & Metal), 706 Rebecca av
Marsh, B. & Son, 744 Penna. av
May, Jno. D., 755 Rebecca
Seybold, A. E., 520 South av

WILLIAMSPORT—Bailey & Fries
Blaisdell, Frank W. (Slate), 641 Cherry
Bousch's, J. P. Sons, 148 Academy
Cockburn, Anthony
Fisher, Charles K.
McLees & Forsburg, 771 W Edwin
Murray, W. A., 1137 Vine
Rothrock, Joseph G., 207 Market
Schmidt, Henry S., 622 Campbell
Stopper, L. D., 428 Hepburn
Weaver, O. B.
Welteroth Co., 329 Washington
Williamsport Hdw. & Stove Co., 750 W 4th

WRIGHTSVILLE—Birstock Bros.
Wrightsville Hardware Co.

WYNCOTE—Tyson, Edwin

WYNDMOOR—Aiman, Arnold (Slate & Metal)

YORK—Aughenbaugh, George H. (Tin)
Baker, M. H.
Bare, P. J.
Behler, F. W.
Blum & Eyster
Bush, George E.
Conoway, Samuel T. (Metal)
Erlon, Jacob H.
Getz, Jno. Sons
Hantz, C. Edward
Heckert, D. P.
Heckert, E. P.
Householder, H. S.
Kidd, Alex. (Tin)
Kottcamp, C. C. & Son (Slate)
Kraber, E. I. & Son, 214 W Market
Kuehn, Jacob L.
Leonard, Wm. H.
Lichtenberger, Charles
Moul, Geo. H. (Slate)
Rodgers, Abner A.
Schall, William J.
Selak, Harry J.
Smith, Edward A.
Smith, H. E., 203 W Market
Stillinger, Charles
Thatcher, Martin
Voss, John A.
Wantz, Milton A.
Weigel, Harvey E.
Wise, Chas. V.
York Corrugating Co.
Ziegler, John A. C. (Slate)

YOUNGSHIRE—Mead & Fisher

ZIEGLERSVILLE—Shaner, Irwin S.

RHODE ISLAND.

BRISTOL—McGanu Bros.
Waldron-Brownell Co.

CENTERVILLE—Clark, S. M.
Wilbraham, C. A.

CENTRAL FALLS—Allerson, Jos.
Martin, A. P. & Co.

EAST GREENWICH—Sharpe, W. R. Hardware
Co.

EAST PROVIDENCE—Crane, Jno. & Co. (Gravel, etc.)

HOPE VALLEY—Rogers, Walter

NARRAGANSETT PIER—Bristow, Jno. (Comp.
NATICK—Dailey Bros. & Gravel)

NEWPORT—Bliss, Herbert, 48 Touro
Covell, Wm. K., Jr., 163 Thames
Gillies, Jno. (Slate, Tile & Gravel), 16 W
Goddard, C. P. Narragansett av
Goddard & Earlow, r 200 Thames
Hart, J. H., 145 Spring
Marden, Jas. F., 328 Thames
Nason, U. G.
O'Brien, George
Shepley, Wm. & Son, 19 Spring
Walsh Bros., 222 Thames

PASCOAG—Smith, James H.

PAWTUCKET—Carpenter, E. P. & Co., 28 N
Davis, Frank, 404 Main Main
Degnan, Wm. F., 176 Mineral Spring av
McParlin, Owen, 24 East av
Maguire, J. T. Co. (Slate, Gravel, etc.), 118
Spring

Pawtucket Roofing Co., 54 Coyle av
Reetz, Robert C.
Thornley Bros. (Gravel), 265 Lonsdale av
Wilson, S. C. & Son, 29 High

PEACEDALE—Doane, Felix
Hodge B. S. (Slate & Metal)

PHENIX—Haywood, Charles
Snell, Byron A.

PROVIDENCE—Allenson Bros. (Metal), 9
Steeple
Appleton & Lee, 1880 Westminster
Ballon, F. M. & Co. (Felt & Gravel), 1323
Bell, Hy. G., 9 Haymarket Broad
Braley & McLaughlin, 171 Washington
Brollini & Schiavone, 452 Atwells av
Brunckow, C. G., (Slate & Metal),
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Bullock, Eben G., 361 Washington

Burgess, James, 254 Prairie av
Burnside, Maurice P., 239 Plainfield
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Carney H. & Co., 1088 Broad
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Citizens' Concrete Co. (Gravel), 75 Westminster

CLASON SNOW GUARD

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al Works (Slate, Metal, etc.), 428 Kinsley
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D'Amario, Antonio, 210 Atwells av
Dash, Joseph, 312 S Main
Deacon, James, 71 S Main
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Glennan, Timothy (Slate), 209 Prairie
Harris, Clayton (Slate, Copper & Tin),
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Holland, Frank, Co. (Gravel & Felt),
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Johnston Concrete & Roofing Co. (Gravel,
etc.), 654 Atwells av

Judd, James J., 231 Smith
Keenan, John F., 42 Beacon
Kellogg, A. O., 250 Eddy
King Roofing Co., 38 Hay
Lamoureux, F., & Co. (Slate & Metal),
39 Friendship

Leckney, John A., 471 Plainfield
Lovegrove & Burlingame, 955 Westmin-
ster
McCurdy, John, 23 S. Main
Maguire, J. T., Co. (Slate, Metal, Gravel
Felt, etc.), 75 Westminster

Milner, J. T., 300 Broad
Moore, J. W., Co. (Gravel, Asbestos,
etc.), 143 Allen's av
Narragansett Plbg. & Piping Co., 217
Nash, Thos. H. J., 706 Craston Broad
N. E. Ventilating & Heating Co., 928
Manton av

Phillips & Phillips, 90 Pine
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Westminster

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Gravel, etc.), 311 Canal
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(Slate & Gravel), 55 Fountain

R. I. Concrete Co., 3 Custom House
R. I. Cornice Co., 76 Point
Sampson, J. A., 10 Summer
Shapiro, N. & Co., 8 Steeple
Smith Concrete Co. (Tar & Gravel), 19
Spencer, Frank C., 847 Manton Ridge
Strauss Co., 303 Eddy
Tracy, Wm. M., 330 Dean
U. S. Concrete & Roofing Co. (Asphalt
& Gravel), Banigan bldg

Woolf & Galkin Co., 24 College
RIVERSIDE—Brownell, Purdon W.

TIVERTON FOUR CORNERS—Wilcox, Fred.
WAKEFIELD—Sheldon, John L.

WARREN—Lent & Barry
Pardey, H. O.

WESTERLY—Chester, A. L. & Co.
Jordan, A. R.

Thorpe, Job
Westerly Concrete Co. (Tar, Gravel &
Asphalt)

Willard, C. W. Hardware Co.
WOONSOCKET—Arnold, C. O.
French, Oliver P. & Son (Slate, Metal &
Gravel)
Gobelle, F. J.
Mulvey, B. F. & Co.

SOUTH CAROLINA.

ABBEVILLE—Abbeville Hdw. Co.
ANDERSON—Archer, T. E.

Burris & Divver
CHARLESTON—Arnot, A. M., 172 Queen

Blake, C. W., 206 King
Droze, E. M., 553 King

Masters, B. M., 127 King
Morris, R. J., 127 King
Regan, J. J., 202 King

Shepherd Supply Co., 232 Meeting
Smith, J. E., 117 King
Williams, T. J., 1 Archdale

CHESTER—Murr, W. H.
COLUMBIA—Palmer, A. D.

DARLINGTON—Welling & Bonnalit
FLORENCE—Boinest, C. L. Hardware Co.

GAFFNEY—Carroll & Byars
GEORGETOWN—Ellis, D. L.

Haselden & Co.
LAURENS—Boyd, S. S.
Boyd, W. L.
Laurens Hdw. Co.

LOWNDESVILLE—Horton, E. R.

NEWBERRY—Johnson, Wm.
White, J. W.

ROCK HILL—Bailey, J. F.

Westerlund, J. W. (Slate, Gravel & Metal)

SPARTANBURG—Ezell, S. B.

Milster, W. A.

Montgomery & Crawford

SUMTER—Brailsford, E. T.

Scaffa, T. C.

UNION—Murrah, T. A.

SOUTH DAKOTA.

ABERDEEN—Koch, Wm. H. & Son (Metal &
Witte Hdw. Co. Comp.)

CANTON—Sioux Valley Hardware & Imple-
ment Co. Treat Hardware Co.

CHAMBERLAIN—Metcalf, T. A.

DEADWOOD—Wilson, Kinney & Co.

HOT SPRINGS—Gillespie & Co.

LEAD—Coolidge & Bros.

MADISON—Kundert & Fitzgerald

PIERRE—Calhoun, W. E.

Greenough, Louis

SIoux FALLS—Hackman, E. W. Hdw. Co.

Larson Hdw. Co.

Rummel Bros.

Stallman, Jno.

YANKTON—Gross, D. D.

Strube & Rathgeber

TENNESSEE.

ATHENS—McGaughey, Jno.

BRISTOL—Bare & Skates Mfg. Co.

Brewer's, W. P. Sons

Mitchell-Powers Hardware Co.

Sweet, T. E. A. (Slate & Metal)

BROWNSVILLE—Forrest & Dupree

CHATTANOOGA—Bush & Co.

Chattanooga Roofing & Foundry Co.

Goodlake, C. W., 813 Broad

Green, W. T.

McMahon, Jas.

Mountain City Stove & Mfg. Co., 623
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Snow, T. A. Heating & Roofing Co. (Slate &
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CLARKSVILLE—Elder-Conroy Hardware Co.

Kincannon & Bro. (Iron & Tin)

Mehigan, C.

CLEVELAND—Hawk, R. H.

Tipton, E. C.

CLINTON—Mitchell, W. B. & Bro.

COVINGTON—Harrison, H. C. & Co.

DICKSON—Anderson Hardware Co.

DYERSBURG—Chamblin & Patton

Dyersburg Hardware Co.

YAFETTEVILLE—Blakemore, J. A.

Fayetteville Plumbing Co.

Robertson & Goodrich

GALLATIN—House & Brown

GREENFIELD—Brock, E. N. J.

Dudley, J. W.

HARRIMAN—Edington Bros.

Salvers, Thomas D.

JACKSON—Anderson, G. C. (Metal & Slate)

Reavis, R. A.

JOHNSON CITY—Grubbs, Frank & Co.

Summers-Parrott Hardware Co.

White, S. B.

KNOXVILLE—Chandler & Co. (Gravel)

Cruze, John (Slate), 419 S Gay

Hatcher, Sam

Hill, Lloyd & Co.

McClung, Buffat & Buckwell

Moriarity, D. F.

Mundy & Gredig

Williams, G. R. (All Kinds)

MEMPHIS—Barbieri, W. J., 138 S 4th

Bartholomew Roofing Co. (Asphalt, Gravel,
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Capps & Elsbury, 147 Monroe av

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Dush, Louis, 223 Poplar Wollentine av

Edwards, J. J. & Co., 85 N 3rd

Eichberg & Lang Mfg. Co., 167 Jefferson av

Fisher, J. F., 85 S 3rd

Fritz, E. H. (Slate, Metal & Composition),
214 N Front

Harrison, W. I., 532 Laclede av

Jones Bros. & Co., 122 Poplar

Linehan, D., Goodwin Inst. bldg

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Mulberry

Pine, W. A., 492 E Georgia av

Richards, L. W., 250 S Main

Wehmann, John H., 574 N 2nd

Wessendorff, Chas. (Slate, Tin & Iron),
197 Washington

NASHVILLE—Adamant Stone & Roofing Co.

111 1st av, S

Broad Street Stove & Tinware Co., 315
Broadway

Cammerer, H. & Son (Slate & Metal), 227
2nd av, N

Cooper & Shelton, 57 Bridge av

Gray & Dudley Hardware Co., 222 3d av, N

Howell, Geo. W., 129 3rd av, S

Jones & Hopkins Mfg. Co., 207 3rd av, N

Kadel, L. J., 912 Church

McInturff, C. C., 131 2d av, S

Minton & Wilson, 514 B'way

Murphy, W. L. & Co., 119 2nd av, N

Murray, E. T. & Co. (Slate, Tile & Metal),
144 3rd av, N

Nashville Chemical Co., 919 N Front

Nashville Roofing & Paving Co., First
Nat'l Bank bldg

Parmer, H. E., 410 Deadrick

Phillips & Buttorff Mfg. Co., 217 3rd av, N

Phillips & Co., 213 3rd av, N

Regan & Frenseley, 29 Bridge

Smith, Herrin & Baird, 144 2nd av, N

SOMERVILLE—Leach, W. H.

SPARTA—Hull, W. W.

TRENTON—Smith, C. F. Co.

TEXAS.

ABILENE—Daniel & Shackelford

Hughes, Edw. S. & Co.

ALBANY—Taylor, J. C. & Co.

ALVARADO—Park, C. H.

AUSTIN—Arlitt, Max

Bintliff, Charles

Keylich, M. G.

Turner, H. L.

BASTROP—Starcke, R. & G.

BEAUMONT—Eastham, A. R.

BELTON—Hamilton & Kigley

Tulloch, R. E.

BIG SPRING—Kennon, W. S.

BONHAM—Nunn, N. N.

Wells, F. P.

BOWIE—McDaniel, R. W.

BRENHAM—Lange Mfg. Co.

BROWNWOOD—Weakley Hardware Co.

CLARKSVILLE—Bagby, G. W.

CLEBURNE—Cleburne Hardware Co.

Goodwin, T. J.

COLORADO—McMurry, Y. D.

Moeser, W. H.

CORPUS CHRISTI—Heath, C. L.

Simmons, T. S.

CORSICANA—Fewell, C. L.

Johnson & Wood Hdw. Co.

Lee, L. H.

Tatum, W. M. Hardware Co.

DALLAS—Bucklelew, O. O. (Comp.), 387 Main

Dougherty, M. F. & Son

Burke, Wm. D. (Slate & Metal), 128 N Akard

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King, T. F. (Gravel & Comp.), 241 S Hous-
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Payne, Frank T., 588 Elm

Schultz, J. H. C.

Smothers, J. W.

DENISON—Dollardhde & Harris

DENTON—Evers Hardware Co.

EL PASO—Bloom, H. F.

ENNIS—Blakey, J. & Co.

FORT WORTH—Atwell Cornice Co. (Tin,
Iron & Slate)

Bryce, Wm. (Felt, Gravel, etc.)

Coughlin, Thos. A.

Gibbons, H. B.

Little & Woods

Nash Hardware Co.

Waynock, Chas. N.

Wills & Tyson (Gravel)

GAINESVILLE—Calkins, David

GALVESTON—Fedder, Albert & Co.

Fredericks, W. G. (Tin & Iron), 2313 Av A

Hartel, Fred. J.

Miller, W. H.

Opperman, H. C., 1811 Market

Werner, Geo. P. (Slate & Metal), 1628 Win-
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GILMER—Croley & Connell

Douphrate, Fred.

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Gravel)

HOUSTON—Bennett, M. D., 1212 Hardy

Blumenthal Bros.

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Hennion, A. G. (Gravel, etc.), 1617 Congress

Holtcamp, E. E.

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Puls, H., Jr. (Slate & Metal), 1401 Wash'n

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Shannon, G. S., 905 Commerce

LA GRANGE—Hopper, G. B.
Streitboff, Aug.
LAREDO—Deutz, A. & Bro.
Siro, Alphonse
MARSHALL—Logan & Whaley (Slate & Gravel)
MOODY—Clay, A. R.
ORANGE—Cox & Myers
Sabine Supply Co.
PARIS—Bettes, H. S. Hardware Co.
Hancock, J. H.
PITTSBURG—Hanna, S. L.
SAN ANTONIO—Cooper, J. W.
Dean, J., Jr.
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Jewett Cornice & Roofing Co., 203 Soledad
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Opel, George
Roberts, Sanford & Taylor Co.
Sherman Plbg. Co.
Walsh Hdw. Co.
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Wiegars, Theo.
TERRELL—Muckleroy & Dew
TEXARKANA—Hoffman Hdw. Co.
Texarkana Hdw. Co.
TYLER—Daglish-Merc & Mfg. Co.
Diekey, J. C.
Roebuck & Son
VERNON—Hampton, Wm.
VICTORIA—Mackrell, W. H.
Praeger, Wm.
WACO—Goodall, Chas.
Lewis, W. S.
Strauss, Ed. (Gravel)
Torbett & Germond
WEATHERFORD—Lowe-Carter Hdw. Co.

UTAH.

EPHRAIM—Jensen, F. Y.
LOGAN—Everton & Sons
Farnes, M. A.
OGDEN—Crosby & Smith
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Simmons, J. C., 220 Wash'n av
PROVO—Blumenthal, H. G.
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Salt Lake Cornice & Roofing Co.
Salt Lake Hdw. Co., 42 W 2d, S
Schoppe, F. E. & Co. (Slate & Metal)

VERMONT.

ALBANY—Darling, J. B.
ALBURN—Scriven, F.
BARNET—Wallace, Jno. S. T.
BARRIE—Phelps Bros.
Prindle, Eugene A.
Reynolds & Son
BELLOWS FALLS—Rodine & Davis
Pierce, Ned (Slate)
BENNINGTON—Hurley, James E. (Slate)
Potter, C. H.
Willoughby, H.
Winslow & Remington
BRADFORD—Libbey Bros.
BRANDON—Phelps, Chas. E.
BRATTLEBORO—Bailey, M. A.
Cox, A. V.
Fleming, Patrick
Gulvin, Jno.
Hall, George H. (Slate)
Willard, Frank E. (Slate)
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ENOSBURG FALLS—Burns, Jno. H.
ESSEX JUNCTION—Teachout, W. S.
FAIRFIELD—Perry, D.
FAIR HAVEN—Bryant, O.
Norton Hardware Co.
GREENSBORO BEND—Pope, J. H. Co.

HARDWICK—Hardwick Hardware Co.
HINESBURG—Reed, P. & Co.
JACKSONVILLE—Reed, E. P.
JOHNSON—Riddle Bros.
LONDONDERRY—Holt, P. R.
MANCHESTER—Lawrence, Geo. A.
MANCHESTER DEPOT—Davis, A. J.
MIDDLEBURY—Calhoun, A. & Son
Stewart, J. H.
MONTPELIER—Barrows & Peck
Blanchard, F.
Peck Bros.
NEWPORT—True & Blanchard Co. (Slate,
Metal, Gravel, etc.)
NORTH FIELD—Tillotson, Geo. W.
PITTSFORD—Connally, Michael
POULTNEY—Horton, M. J. & Son
RANDOLPH—Lamson, J. H. & Sons (Iron &
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RUTLAND—Connally & Loveland
Dunn Bros.
Landon, W. C. & Co.
Pratt, G. W. & Co.
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ST. JOHNSBURY—Farnham & Albee
Goss, C. H. & Co.
SPRINGFIELD—La Fontaine, Staples & Co.
SWANTON—Martin, H. F. & Son (Slate &
Asbestos)
VERGENNES—Harrington, J. A. & Co.
Hudson, Robert
WATERBURY—Ayers, O. L.
Smith & Somerville
WEST RUTLAND—Pratt, G. W. & Co.
WHITE RIVER JUNCTION—Bagley, E. H.
Billings, Frank P.
Martin, A. C.
Nott, Hiram L.
WILLIAMSTOWN—Robinson, N. B.
WINDSOR—Reed, Samuel A.
Stone, Payson & Blake
WINOOSKI—Bigwood, S.
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WOODSTOCK—Pinney, B. H. & Co.
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ALEXANDRIA—Baader, Hy. & Sons
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BERRYVILLE—Bowman, Isaac
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BLACKSBURG—Eminger, J. P. & Co. (Slate)
BLACKSTONE—Stokes, Williams & Co.
BRIDGEWATER—Smith & Hilsey
Wine Bros.
BUENA VISTA—De Priest, Robert A.
CATLETT—Marks, B. F.
CHARLOTTESVILLE—Baxter, S. S. & Co.
Martin, W. T.
CHATHAM—Whe, W. E. & Bro.
CHRISTIANSBURG—Smith, H. P.
CLIFTON FORGE—Coutts, Gordon
Smith & McKinney Hardware Co.
COVINGTON—Argenbright, J. F.
McMann, J. B.
CULPEPPER—Thomas, W. A. Son & Co.
DANVILLE—Flynn, J. A. & Co.
Piedmont Hardware Co. (Slate)
Tyler, J. E. & Co.
Virginia Hardware Co.
FARMVILLE—Noel Bros.
FRANKLIN—Pace, W. T.
FREDERICKSBURG—Cain, E. J. & Co.
Scott, J. F.
FRONT ROYAL—Forsythe, J. F. & Co.
Gilkey & Son
Striker, W. H.
HAMILTON—Myers, Nathan
HAMPTON—Copeland, Joseph F.
Connell, J. C.
Williamson, C. M.
HARRISONBURG—Saum, John R.
Saum, M. L.
JONESVILLE—Crowell, W. S. & Sons
Lee, O. C.
LEESBURG—Thomas, W. H.
Thompson, E. E.
LEXINGTON—Anderson, R. S.
Koffer, Giles
Rhodes, F. P.
LOUISA—Young, W. H.
L'RAY—Campbell, J. W.
LYNCHBURG—Doherty & Casey
Dornin, T. D. Adams Co.
Noel, M. B. & Son
Price Bros.

MADISON—Teasley, Geo. R.
MANASSAS—Davis, A. P.
MANCHESTER—Berkert, Charles
Jones, Edgar A.
Melghan, Chas. M.
MARTINSVILLE—Cheshire, J. W. & Sons
MONTEREY—Arbogast, C. O.
NEW MARKET—Crim, G. W.
Roberts, J. W.
Tidder, E. E.
Wickes, H. G.
NEWPORT NEWS—Brittingham, O. J.
Lippman, I. (Inc.)
Newport Plumbing, Heating & Tinning Co.
Roth, Frank
Ryan, E. L. & Co.
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NORFOLK—Addenbrook's, J. U. Sons (Gravel,
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Thomas, T. W. & Co. (Metal & Tile)
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PULASKI—Moore, H. S.
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RADFORD—Kirby, J. M.
RICHMOND—Armitage Mfg. Co. (Gravel,
Slag & Comp.), 3200 Williamsburg av
Atkinson, Wilton T., 1003 E Marshall
Berger, B. A., 16 N 20th
Burton, Reuben, 819 E Carey
Chappell, James H. & Bro., 110 N 7th
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Eanes, Wm. H.
Fensom, Edward B., 110 S Linden
Haley, Werth W. (Slate & Tile), 124 S
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Holzhauer, Henry, Jr., 510 E Broad
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Myer, William R., 1219 W Marshall
Messerschmidt, Henry, 214 W Broad
Pemberton & Benson, 320 E Broad
Roach, Russell, 804 Randolph
Rose, J. H. & Co., 1427 E Main
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SOUTH BOSTON—Nesbit & Barnett
STAUNTON—Flavin & Watson
Garber, Augustus M.
Gregory, C. E., Jr.
Grubert, W. A.
Mohler, H. C.
Pemberton & Marston
Raby, I. K.
Tanner, Chas. & Co.
SUFFOLK—Curry, C. D.
Farley, W. J. (Slate)
Folk, E. L. & Co.
Norfoot & Bro.
TAZEWELL—Miller, L. E.
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VINTON—McLean, Daniel
WARRENTON—Houchens, T. M.
Martine, B. F.
Wood, D. P. & Co.
WAYNESBORO—Brady, S. L.
Fry, A. C.
O'Connor, D. L.
Parish, W. A.
WEST POINT—Davis, W. O.

WINCHESTER—Solenberger, J. S. & Co.
WOODSTOCK—Bauserman, H. W.
WYTHEVILLE—Pattison, B.
Pattison & Umbarger
Peck, Jno. A.

WASHINGTON.

ABERDEEN—Cook, H. L. & Co.
BALLARD—Curtis, Wm. M.
BELLINGHAM—Morse Hardware Co.
Munro & Haskell
Northwest Hardware Co.
Stoddard, C. W.
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McNitt, Frank T.
COLFAX—Barroll & Mohoney
Kuhn Hardware Co.
DAVENPORT—Thomas, L. H.
DAYTON—Gilmour, T. B.
EVERETT—Agnew Hdw. Co.
Pacific Hardware Co.
Westover Hdw. Co.
HOQUIAM—Fesenfeld, W.
NORTH YAKIMA—Keck, E. O.
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Edgar & Campbell, 89 Pike
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Merz Sheet Metal Works, 112 2d av, S
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Pioneer Sheet Metal Works, 1024 West-
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Poppo & Knowles, 1023 Post
Puget Sound Sheet Metal Works, R. R.
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Robinson & Shafer, 1314 Western av
Rustard Hardware & Plbg. Co., 108 2d
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av
SPOKANE—Brandt Bros.
Brown Bros. (Slate, Metal & Comp.)
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Henderson, L. A.
Holley, Mason Hardware Co.
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VANCOUVER—Sparks, M. R.
WALLA WALLA—Drumheller Co.
WATERVILLE—Carpenter & Maltble
WHATCOM—Browne, L. O.
Hinsdale Hardware Co.
Stoddard, C. W.

WEST VIRGINIA.

BERKLEY SPRINGS—Ambrose, C. P. & Bro.
BLUEFIELD—Heffner, O. V.
Whitlow, M. G. Hardware Co.
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Metal)
Shawyer, W. F. Co. (Slate & Metal)
Wolf, J. C.
CHARLESTOWN—Easterday & Co. (Slate &
Sutter Roofing & Cornice Co. Metal)
Trimble, W. E.
FAIRMONT—Hough, C. D.
Morgan, Z. W.
Morris, J. S. & Son
Staley, Joshua F.
Stokes, S. & Co.
GRAFTON—Caveney, Jno. F.
Luetheke, J. W. (Slate & Tin)
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Johnson, C. A.

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Moore & Gardner
Westenhaver, S. A.
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Reed Bros.
NEW CUMBERLAND—Young, H. B.
PARKERSBURG—Bosburg Bros.
Dickel, Jno. & Sons (Slate & Metal)
Martin, A. A. & Son
Neal, R. L. & Co.
Scott Roofing & Mfg. Co.
Sharp & Kerns (Slate & Metal)
PHILLIPPI—Woodford, F. D.
RONCEVERTE—Eagle, J. W. P.
SALEM—Nutter, H. D.
SHEPHERDSTOWN—Marten, H. C.
SISTERSVILLE—Phillips, G. W.
WELLSBURG—Charnock, J. M. (Metal & Slate)
Warden, S. M. (Slate & Metal)
WESTON—Simpson & Sons
WHEELING—Adkins Itching Co. (Slate, etc.)
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ALGOMA—Meyer Bros.
APPLETON—Galpin's, Alfred Sons
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Schlegel, H. J.
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Tesch, Wm.
ARGYLE—Hendrickson, H. J.
ASHLAND—French, R. W. & Son
Garnich, Emil & Sons
BARABOO—Gaskell, F. N.
BELOIT—Newton & Zimmerman
Watson & Bittel
BERLIN—Peck, C. A. Hdw. Co.
Wood, Bert T.
BLACK EARTH—Fesenfeld & Barber
ROSCOBEL—Belmborn & Nauert Hardware Co.
BURLINGTON—Wagner, C. B.
CASCADE—Ruppenthal, A.
CEDARSBURG—Groth, Henry G.
Lehmann, C. W. & Bro.
CHIPPEWA FALLS—Hoenig Bros.
Koop, Otto
CLEVELAND—Belitz Bros.
CUBA—Kellner, C. & Son
DALE—Bock, C. A.
DELAVAL—McCoy, W. L.
DE PERE—Pratsch, G. G.
EAU CLAIRE—Crosby, E. A.
Fralley, George
Schlegelmilch, H. F. Hardware Co.
EDGAR—Pnnchner, A. W.
ELLSWORTH—Erickson, E. J.
EVANSVILLE—Baker, F. A. & Co.
Evansville Mercantile Ass'n
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Brenner, Jacob
Cheney, S. H.
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GREEN BAY—Brown & Tickler
Cooke, W. D.
Danz, Hellmer
Flindelsen Bros.
Follette, George B.
Fontaine, B. Hardware Co.
Francois, Jos. P.
Green Bay Cornice & Corrugating Co.
Hamblitzer, Joseph
Harris, Theo. E. (Slate & Metal)
Kimball, Chas. P., Jr.
Lamerond, J. L.
Van Veghel Bros.
HALES CORNERS—Mead, Jno.
HARTFORD—Esser & Schmidt
Kissel, L. & Sons
HAZEL GREEN—Edwards, James & Sons
Grieger, Robert D.
HURLEY—McConnell Hardware Co.
Volght & Christensen

JANESVILLE—Lowell Hdw. Co.
McNamara, H. L. (Slate & Metal)
Pelton, E. H.
KAUKAUNA—Buttler, Dietzler Hardware Co.
Feller, Peter (Tin & Metal)
Hass & Hohmann (Tin & Metal)
KENOSHA—Dewey, C. A.
Fay, Geo. W.
Jansen, T. E.
Skidd, Chas.
KIEL—Simon Hardware & Mfg. Co.
LA CROSSE—Badger Steel Roofing & Corru-
gating Co. (Slate, Tile & Metal)
Dittman, Fred. Hardware Co.
Gateway City Steel Tank & Roofing Co.
(Slate, Tile & Metal)
La Crosse Cornice & Ceiling Co.
La Crosse Steel Roofing & Corrugating Co.
(Slate, Tile & Metal)
Leinfelder & Hughes
Tausche, V. Hardware Co.
Thomas, H. C.
LAKE GENEVA—Cobb Hardware Co.
Moore, F. S.
LANCASTER—Ziegler Bros.
LENA—Libal Bros.
MADISON—Blief, J. H.
Blief & Schneider
Burger, Peter
Drews, William
Gill & Watermann (Comp.)
Krehl & Son
Kroncke, A. G. Hardware Co.
Miller, Waldron & Studemann (Slate &
Metal)
Morhoff, E. W.
Morhoff & Bauer
Sumner & Morris
Trachte Bros.
Wolf, Kubly & Hirsig (Slate & Metal)
MANAWA—Shipman, H. E.
MANITOWOC—Kerscher Bros.
Kerscher Bros. Co.
Rathsack, Wm. & Sons
Wallschlaeger's, Jno. Sons
Wernecke & Schmitz
Worel & Zeman
MARINETTE—Muth & Wall
Simcox, H. B. & Co.
Watson Bros. (Asbestos & Metal)
Westlund, August
MENOMONEE FALLS—Thomas, Fred.
MENOMONIE—Brennan, D. C.
Lucas, Carroll
Young, Jno. A.
MERRILL—Fehland, H. R. & Co.
Mittelstedt, Wm.
Montgomery, F. M.
Wenzel, Gustave
MIDDLETON—Manning, W. J. O.
MILWAUKEE—Badger Roofing Co. (Gravel,
etc.), 217 4th
Bauer, Tony A., 2002 Chestnut
Bauschek & Blegler, 503 12th
Beernink, S., 343 33d av
Bliersach & Niedermeyer (Slate, Tile &
Metal), 216 5th
Bishop, John, 1329 Cherry
Boehm, J. Stove Repair Co., 290 W Water
Bogenberger & Goessel, 68 Mason
Braun, Millen & Co., 534 Clinton
Bretzel, Herman J., 1904 Fond du Lac av
Bruss Bros., 648 12th
Buttles, Fred. S., 7 Clybourn
Caspari, Chas., 364 E North av
Consolidated Sheet Metal Works (Slate &
Metal), 661 Hubbard
Coorsen, Louis, Jr. (Comp.), 316 16th
Cox, Jos. L. (Slate, Tile & Metal), 138 6th
Cream City Roofing & Paint Mfg. Co., 219
Dohl & Busse, 405 Grove Cedar
Feix & Goethel, 818 Winnebago

GILMAN SNOW GUARD

103 Merrimac, Boston, Mass. (See adv.
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Graunke, Angst, 431 23th
Green, David D., 215 6th
Groeschel, Oscar, 489 27th
Hamann, Wm., 752 4th
Harbach, Christian (Asphalt), 709 Walnut
Harwood, F. M., 90 Russell av
Haselov, Fred, 660 3d
Haubner, Michael, 544 21st
Helwig, Herman C., 871 Inland pl
Held & Dern, 1524 Fond du Lac av
Henrich, Theo. A., 534 Walker
Hesse, E., & Co., 456 B'way
Hilger, Edward, 939 5th
Hoffmann & Baur, 279 Lake
Hoffmann, C., & Co., 861 Cambridge av
Hofmeister, Leo Co., 396 Clinton
Holtitz, Frank J., 1338 Green Bay av

Hollitz & Bogenberger, 445 Jefferson
Jeske, Reinhard & Bro., 718 Walnut
Kauper, John W., 488 12th
Kilberth, Jos. A., 1522 Walnut
Klubertanz, August, 2325 Fond du Lac av
Krsck, Anton (Slate & Metal), 1209
Krsck, Joseph, 1522 Villet Chestnut
Lauterbach Bros., 324 Ogden av
Lavies, P. J., & Co., 482 National av
Lenck, Chas. H., & Bro., 299 Ellen
Lindermeier, Hans, 749 Jefferson
Lorch, Wm. P., 1109 Cherry
Mertens, L., 1183 6th
Merz, Joseph, 1018 Cherry
Millen, Frank & Sons, 247 Orchard
Moeller, Herman, 57 Juncau av
Monsted, A. Co. (Comp.), Pabst bldg
Mueller, Charles, 728 Germania
Patterson, Wm., 786 Booth
Pletsch, Ferd., 619 Cedar
Podolske, August (Slate & Metal), 13
Roeder, Chas., 1520 7th Center
Romberger, Jos., 2115 Cherry
Schaetzke, Herman, 785 7th
Schmidt, Jno., 2443 Ceuter
Schmitt, F., & Sons Co. (Slate, Tile &
Metal), 301 4th
Schupinsky, Aug., 497 B'way
South Side Roofing Co. (Comp. &
Gravel), 235 Reed
Stachowiak, Charles, 949 8th av
Stein, David & Co., 702 Market
Tonnsen, E. B., 51 3d
Toombs, Jas., 271 27th
Wiesend, John M., 828 Winnebago
Winding & Gezelschap (Gravel, Asphalt,
etc.), Pabst bldg
Winter, Charles, 2453 Walnut
Zweck, Harry, 516 Mineral
MONROE—Kundert Hardware Co.
Lanze, Fred
MONTICELLO—Breylinger, F. J.
NASHOTAH—Wagner, Chas. M.
NEW GLARUS—Hoesley Bros.
NORTH PRAIRIE—Hess, Frank E.
OCONOMOWOC—Lorleberg, H. Co. (Inc.)
Smith & Meadows
OCANTO—Barlament, H. M.
Delaporte, C. J. L.
LeMieux, E. A.
OREGON—Marvin Hardware Co.
OSHKOSH—Cornellus, Frank
Hampsey, L. & Co., 277 Main
Hansbrouck, F. M., 269 Main
Heine & Welshoff
Krippene Hdw. Co., 10 6Main
Leach, Frank Hdw. Co., 30 S Main
Marden, P. L. & Bro. (Comp. & Gravel),
Tank & Tieman 85 Bond
Wille, F. Co., 29 Main
PESHTIGO—McGraw, F. E.
PORTAGE—Dimpsey, Nelson
PRAIRIE DU CHIEN—Beach Bros.
RACINE—Anderson & Fritz
Gerbig, W. E.
Mohr-Jones Hdw. Co.
Murphy, James, 614 State
Prostrenik & Kroupa
Sprado, W. A.
REEDSBURG—Ellenberg & Ost
Siefert, Aug. Hardware Co.
RHINELANDER—Dunn & Wood Hdw. Co.
Lewis Hdw. Co.
RIPON—Barlow & Seelig
RIVER FALLS—Dodge, Geo. J.
ROCKDALE—Norgord, J. E.
ST. CLOUD—Dreifurst Bros.
SCHLEISSENGERVILLE—Keidel, J. G.
SCOTT—Leifer, G. A.
SEYMOUR—Droeger Hardware Co.
SHEBOYGAN—Geele, F. Hardware Co.
Koepsell, J. J. Hardware Co.
Rainaker, J. J. & H. G.
SOUTH MILWAUKEE—Kuhn, A. W.
SPARTA—Baldwin Mercantile Co.
Reisinger, M. (Metal)
STEVENS POINT—Gross & Jacobs
Krembs, C. & Bro.
STOUGHTON—Havey, W. O.
Wiegel & Phillips
STURGEON BAY—Hay, J. S. Hardware Co.
Schofield Co.
SUPERIOR—Arnold & Schimmel (Metal, Iron
& Gravel), 414 Banks av
Bingham Hdw. Co. (Slate, Metal & Comp.),
522 Ogden
Carlson Bros. (Slate, Metal & Comp.), 1215
Fogelquist, Frank Tower av
Holmes, A. E. & Bro. Co. (Slate, Metal,
Olsamps & Kunert etc.), 1902 Winter
Roberts, G. W. (Slate, Metal & Comp.),
514 Ogden av
TISCH MILLS—Harkey, Joseph
WALDO—Timmer, H. W.

WASHBURN—Bergman, E.
Ungrodt, B. (Asbestos, Metal & Gravel)
WATERTOWN—Geschke, Richard
Kusel, D. & F. Co.
Pritzlaff, W. G. & Co.
Winkenwerder, Henry
Wittchow, Charles
WAUKESHA—Dally, Harry (Slate & Metal)
Klock, J. J.
Le Clear, N. H.
Perkins Hardware Co.
Tolg, C. F. (Slate & Metal)
WAUNAKEE—Fleiner, Gustave
WAUPUN—Buelow, Geo. W.
Howard, Wilfred C.
WAUSAU—Adams & Lubeck
Brandt, Emil
Collins, W. F.
Fehl, Jno.
Kuckuck, Wm.
Montgomery Hdw. Co. (Metal & Gravel)
WEST BEND—Ott & Boden
Warnkey & Schneiss
WHITEWATER—Cutter, E. A.
WRIGHTSTOWN—Rather & Schaeuble

WYOMING.

BUFFALO—Astell, Geo. T.
CHEYENNE—Hopper & Bartley
EVANSTON—Flfe Bros.

Roofing (Actinolite)

Machwirth Bros. Co., 201 Oak, Buffalo, N. Y.

Roofing (Anchor Brand)

Warren Chemical & Mfg. Co., 17 Battery pl.
New York

Roofing (Asbestos)

Bartholomew Roofing Co., Memphis, Tenn.
Carey, Phillip Mfg. Co., Lockland, O.
Chicago Asbestos Mfg. Co., 78 W. 22d pl
Chicago, Ill
Chicago Fireproof Covering Co., 18 N Canal
Chicago, Ill
Consolidated Roofing Works, Columbus, O.
Ehret Magnesia Mfg. Co., Land Title bldg,
Phila., Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York
Johns, H. W.-Manville Co. (Prepared), 100
William, New York
Keasbey & Mattison Co., Main Office &
Works, Ambler, Pa.
MILWAUKEE CORRUGATING CO.
(Jobbers), Milwaukee, Wis. (See adv. in-
dex & branch offices, end of book)
New Jersey Asbestos Co., Camden, N. J.
Stowell Mfg. Co., Jersey City, N. J.
Trinidad Asphalt Mfg. Co., 320 S 20th, St.
Louis, Mo
WATSON, H. F. CO., Erie, Pa. (See
adv. index & branch offices, end of book)

Roofing (Asbestos-Metallic)

Keasbey & Mattison Co., Main Office & Works,
Ambler, Pa., & 100 John, New York

Roofing (Asbestos Protected Metal)

Asbestos Protected Metal Co., Canton, Mass.

Roofing (Asphalt Felt, Mica-Plated)

Union Roofing & Mfg. Co., St. Paul, Minn.

Roofing (Asphalt Gravel)

Acme Asphalt Roofing Mfg. Co. ("Eagle" Brand
Ready), 65 Mallory av, Jersey City, N. J.
Stowell Mfg. Co., Jersey City, N. J.

Roofing (Asphalt, Ready)

(See also Roofers; also Asphalt Dealers &
Importers)

Acme Asphalt Roofing Mfg. Co. ("Eagle"
Brand), 65 Mallory av, Jersey City, N. J.
American Insulating Material Mfg. Co. (Ivory-
oid Indestructible Fireproof), Alexander.
Armitage Mfg. Co., Richmond, Va. Ind.
Asphalt Ready Roofing Co., 136 Water, New
York
Asphalt Roofing Co. ("Wanigas"), Saginaw,
Mich.

Barber Asphalt Paving Co. ("Genasco"),
Phila., Pa.
BURTON, W. J. CO., 161 W Congress,
Detroit, Mich. (See adv. index, end of
book)
Consolidated Roofing Works (Seamless), Colum-
bus, O.
Densmore-Stabler Refining Co., Los Angeles,
Cal.
DOGGETT, STANLEY (Finish), 101 Beek-
man, New York. (See adv. index, end of
book)
Eastern Granite Roofing Co., Irving bldg, New
York
General Roofing Mfg. Co., East St. Louis, Ill.
INDIAN REFINING CO., Cincinnati, O.
(See adv. index, end of book)
McClintock & Irvine Co., Pittsburg, Pa.
McHenry-Millhouse Mfg. Co. ("Climax"),
South Bend, Ind.
Minneapolis Paper Co. ("Monarch" Brand),
Minneapolis, Minn.
National Roofing Co. ("Security," "Safety"),
Tonawanda, N. Y.
Patent Vulcanite Roofing Co. ("Vulcaulte"),
625 S Campbell av, Chicago, Ill.
Pioneer Roll Paper Co. ("Ready Rock"), Los
Angeles, Cal.
Schillinger Bros. Co. ("Eagle" Brand), De-
troit, Mich.
Scott Roofing & Mfg. Co. ("Asteroid"), Parkers-
burg, W. Va.
Stowell Mfg. Co., Jersey City, N. J.
Trainer, C. W. Mfg. Co., Boston, Mass.
Triulstad Asphalt Mfg. Co., 320 S 21st, St.
Louis, Mo.
Union Roofing & Mfg. Co. ("Gal-Va-Nite"),
St. Paul, Minn.
Warren Chemical & Mfg. Co. ("Anchor"
Brand), 19 Battery pl, New York

Roofing (Asphalt Slag)

Acme Asphalt Roofing Mfg. Co. ("Diamond" &
Gray Slag), 65 Mallory av, Jersey City, N. J.
BURTON, W. J. CO., 161 W Congress,
Detroit, Mich. (See adv. index, end of
book)
Hetzl, J. G. (Est. of), 67 Malne, Newark,
Stowell Mfg. Co., Jersey City, N. J. N. J.

Roofing ("Best-of-All")

PITTSBURGH GAGE & SUPPLY CO.,
30th & Liberty av, Pittsburgh, Pa. (See
adv. index, end of book)

Roofing Caps (Tin)

Ammidon & Co., Baltimore, Md.
Barrett Mfg. Co., Land Title bldg, Phila.,
Pa.
Consolidated Fruit Jar Co., New Brunswick,
Federal Mfg. Co., Baltimore, Md. N. J.
Graham Paper Co. (Jobbers), St. Louis, Mo.
Horan Stay Hanger Co., Louisville, Ky.
Humphrey, H. W., Unionville, Conn.
Igoe Bros., 69 Metropolitan av, Brooklyn, N.
Y., & Newark, N. J.
Merwin Mfg. Co., Erie, Pa.
Robertson, W. F. Iron & Steel Co. (Half
Moon), Cincinnati, O.

Roofing (Car)

Armitage Mfg. Co., Richmond, Va.
Asbestos Protected Metal Co. ("Robertson"
Standard for Inside of Box Cars), Can-
ton, Mass.
Bird, F. W. & Son ("Paroid"), East Walpole,
Mass.
Chicago-Cleveland Car Roofing Co. (Freight Car,
Metal), Old Colony bldg, Chicago, & Cleve-
land, O.
Consolidated Supply Co. (Metal), 321 Dearborn,
Chicago, Ill.
Drake & Wiers Co. (Asphalt), Cleveland, O.
Excelsior Car Roofing Co., Chemical bldg, St.
Louis, Mo.
Fay Manila Roofing Co., Camden, N. J.
Graham Paper Co. (Jobbers), St. Louis, Mo.
Hutchins Car Roofing Co. (Iron & Plastic), Pe-
nobscot bldg, Detroit, Mich.
Patent Vulcanite Roofing Co. ("Vulcanite"
Rubber), 625 S Campbell av, Chicago, Ill.
Standard Paint Co. (Ruberoid), 100 William,
New York
Standard Railway Equipment Co. (Murphy Gal-
vanized Iron), National Bank of Commerce
bldg, St. Louis, Mo.
Western Elaterite Roofing Co. ("Elaterite"),
Denver, Colo.
Yale, Julian L. & Co. (Torison-Proof), Rail-
way Exchange bldg, Chicago, Ill.

Roofing (Cork)

Stowell Mfg. Co., Jersey City, N. J.

Roofing (Corrugated Iron, Asbestos Coated)

Hyndman Roofing Co., 318 E. 2d. Cincinnati, O.

Roofing (Duck)

(See Cotton Duck Manufacturers)

Roofing (Elaterite)

Western Elaterite Roofing Co., Denver, Colo.

Roofing (Feldspar)

Stowell Mfg. Co., Jersey City, N. J.

Roofing Felts

(See Felts, Roofing)

Roofing (Ferroinclave)*BROWN HOISTING MACHINERY**
Co. (Fire Proof), Cleveland, O., & 50
Church, New York. (See adv. index &
branch offices, end of book)**Roofing (Flintkote)**Bird, J. A. & W. & Co., 34 India. Boston,
Mass.***Roofing ("Imperial")****WATSON, H. F. CO., Erie, Pa.** (See
adv. index & branch offices, end of book)**Roofing (Mastic)**National Roofing Materials Co., Edwardsville,
Ill.**Roofing Materials**(See also Roofers; also Tin Plate, Metals, etc.;
also Roofing & Siding, Iron & Steel; also
Roofing Slate; also Roofing Tile; also Pa-
pers, Building, Sheathing, etc.; also Felts,
Roofing; also the Specific Article Required)**CALIFORNIA.****LOS ANGELES**—Harper & Reynolds Co., 152
N Main
Montague, W. W. & Co., 122 N Los Angeles
Pioneer Roll Paper Co. (Ready Rock Roofing)
Scheerer, C. & Co. (Asphalt; also Patent
Vulcanite)
SAN FRANCISCO—Arnold Hardware Co., 838
General Roofing Mfg. Co., Webster
Liggett & McCroskey, 680 Mission
Montague, W. W. & Co., Polk & Turk**GEORGIA.****ATLANTA**—Conklin Tin Plate & Metal Co.
Kriegshaber, V. H., 97½ Peachtree
Murphys, C. P., Sons, 2 Wall
Smith, O. A. Roofing & Contracting Co., 27
MACON—Mallory Mill Supply Co., Walton
SAVANNAH—Conklin Tin Plate & Metal Co.
Hanley, Andrew Co.**HAWAII.****HONOLULU**—Lewers & Cooke, Ltd.**ILLINOIS.****CHICAGO**—General Roofing Mfg. Co.
Heppes Co. ("No Tar," Roofing), 3093 Fil-
Hopkins, H. H. Co., 50 Dearborn more
Illinois Roofing & Cornice Co., 329 W.
Kinzie
Johns, H. W.-Manville Co., 171 Randolph
Lehon Co. ("Roofite," Rubber Surface), W
43d & Lincoln
MacLellan, H. G. & Co., 115 Dearborn
Murdoch, Wm. Co., 145 LaSalle
North Chicago Roofing Co., 128 North av
Patent Vulcanite Roofing Co. (Patent "Vul-
canite" Rubber, Asphalt, Asphalt Ready,
Felts, Cements, Nails)
Powell, M. W. Co., 204 Dearborn
Randolph, C. W., 825 Clifton av
Sail Mountain Asbestos Mfg. Co. ("Reliance"
Rubber), 68 S Canal
WATSON, H. F. CO. ("Indurolid,"
Asbestos, etc.), 12 S Clinton. (See adv.
index, end of book)**Western Roofing & Supply Co., 2357 LaSalle**
Wheeler & Thomas Roofing Co., 171 N
Wells
Woodley, Jas. C. & Co. ("Compo Rubber"),
22d & Lumber
EAST ST LOUIS—General Roofing Mfg. Co.
MARSEILLES—General Roofing Mfg. Co.
PEORIA—Clark, Quilen & Morse
Johnson, Chas. Hardware Co.
Meyer, F. & Bro. Co.
Streibich, John C.**INDIANA.****EVANSVILLE**—Anchor Roofing & Paving Co.**KENTUCKY.****LOUISVILLE**—Kleier, H. J., Jr., 915 Shelby
Louisville Paper Co. (Red Rope), 251 E
Main
National Roofing & Supply Co., 140 W Main
Parker, J. C. Paper Co., 307 W Main
Southern Roofing & Paving Co., 1006 W
Main**LOUISIANA****NEW ORLEANS**—Demorelle, Jas. & Sons,
1035 Toulouse
Kracke & Flanders, 630 Gravier
Louisiana Roofing Co. (Ltd.), 407 Tchoupi-
toulas
Menge, J. H. & Sons (Ltd.), Common &
Tchoupitoulas
Thompson, Edw. Co. (Ltd.), 530 Natchez
Tupper, Allen, 713 Union
Woodward, Wight & Co. (Ltd.), 420 Canal**MARYLAND.****BALTIMORE**—Dawes, J. S. & Co., 782 W.
Foy, Edw. L. & Co., 16 W Camden Pratt
Lyon, Conklin & Co., 13 Balderston
National Building Supply Co. (Asbestos, As-
phalt, Felt, etc.), 418 E Pratt
Noble, H. & Co., 623 S Caroline**MASSACHUSETTS.****BOSTON**—Asphalt Roof Coating Co., 127 Fed-
eral**GILMAN SNOW GUARD**103 Merrimac. (See adv. index, end of
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Murfieldt, W. A. Co. (Gravel, Slate &
Metal), 161 Devonshire
South Boston Roofing Co., 490 B'way
STEARNS, A. T. LUMBER CO.,
Neponset. (See adv. index, end of book)
Warren Chemical & Mfg. Co., 49 Federal
WATSON, H. F. CO., 79 Milk. (See
adv. index, end of book)
CAMBRIDGE—Purcell, Hycent (Roofing Ce-
ment, etc.)**MICHIGAN.****DETROIT**—**BURTON, W. J. CO. 161 W**
Congress. (See adv. index, end of book)
Fuel Economy & Mfg. Co., 42 Jeff'n av
Gilbert, G. W. & Son, 20 Gilman
Pndrith & Chandler, 74 Brush
Thomas Bros. & Co., Hammond bldg
SAGINAW—Asphalt Roofing Co. (2 & 3 Ply
Roofing, Roof Paints, Tarred Felts, etc.)
VALLEY CORNICE & SLATE CO.
(Ltd.) (Slate, Tile & Metal), 314-318 N
Hamilton, W. S. (See adv. index, end of
book)**MINNESOTA.****DULUTH**—Cutler, D. G. Co.
MINNEAPOLIS—Crittenden Roofing Mfg. Co.,
918 S 4th
Janney, Semple, Hill & Co., 20 S 2d
Nott, W. S. Co. ("Wizard," "Silverite"
Prepared)
Stremel Bros. Roofing & Cornice Co., 1215
Washington av, N
ST. PAUL—Griffin & Boehme, 121 W Univer-
sity av
Northwestern Lime Co., 68 Lower Levee**MISSOURI.****KANSAS CITY**—Conkey, Theo. F., 1314 E
Lewis Supply Co., 1300 W 11th 18th
ST. LOUIS—Daniels Roofing & Supply Co.,
206 Walnut
Excelsior Roofing Co., 1309 N Grand av
Finger & Co., 2008 Russell av**Latal, John J., Roofing Co., 4422 Easton av**
St. Clair Roofing Co., 921 Chestnut
Standard Roofing Co., 1109 Chestnut
Stockhoff Supply Co., 107 N Main
Trinidad Asphalt Mfg. Co. (Asphalt Roofing
Cements, Paints, etc.), 320 S 21st
Zelnicker, Walter A. Supply Co. (Prepared
Roofing), 325 Locust**NEBRASKA.****LINCOLN**—Nichols Roofing Co.
Whitebreast Coal & Lumber Co.
Young, R. S. Building Supply Co.
OMAHA—Barrick, Edw.
Cady, H. F. Lumber Co.
Jones, J. H. Roofing Co.
Mica Roofing Co.
Rogers G. W.
Sunderland Roofing & Supply Co.**NEW JERSEY.****CAMDEN**—Rudderow, S. F. & Son
JERSEY CITY—Acme Asphalt Roofing Mfg. Co.
(Asphalt, Slag, etc.), 65 Mallory av
NEW BRUNSWICK—Weigel, Philip, Jr.**NEW YORK.****BROOKLYN**—(See New York City, Borough of
Brooklyn)
BUFFALO—Baker, Howard H. & Co., 20 Ter-
race
Beaver Mfg. Co., 228 Perry
Black, John H. Co., Builders' Exchange
Buffalo Wholesale Hardware Co., 317 Oliver
Christmann, Philip & Sons, Virginia &
Orange
Fisher, Martin & Sons, 75 W Chippewa
Grove Roofing Co., 121 W Eagle
Hall, Leander W. & Son, 216 Pearl
Machwirth Bros. Co., 201 Oak
Smith, D. L., 31 Church**NEW YORK CITY.****Borough of Brooklyn.****BROOKLYN**—Coal Tar Product Co., Smith &
Creamer**Boroughs of Manhattan & Bronx.****NEW YORK**—Blue & Queripel Co., 119 E
124th
BROWN HOISTING MACHINERY
Co. ("Ferroinclave"), 30 Church. (See
adv. index & branch offices, end of book)
DOGGETT, STANLEY, 101 Beek-
man. (See adv. index, end of book)
Ehret Maguesia Mfg. Co. (Asbestos, Felts,
Cements, Paints, etc.), 80 Wooster
HEWITT, C. B. & BROS. (Roofing,
Papers, Felt, etc.), 49 Beekman (See
adv. index, end of book)
Hoopes & Shipman, 345 W 26th
Johns, H. W.-Manville Co., 100 William
Nonpareil Cork Works ("Silicator"), 50
Church
O'Meara, Maurice Co. ("Perfect"), 448 Pearl
Standard Paint Co., 100 William
Swan, Alfred F. C. (Felt, etc.), 17 Bat-
tery pl**(End of New York City)****ROCHESTER**—Rochester Roofing & Heating
SYRACUSE—Central City Roofing Co. Co.**OHIO.****CADIZ**—Long, E. M. & Sons (Wholesale Slate,
Asphalt, Felt, etc.)
CINCINNATI—Breese, J. E. & Bro., 210 W 2d
Chatfield Mfg. Co. (Ready Roofing, etc.)
Chatfield & Woods Co., 349 W. 4th
Cincinnati Roofing Co., 220 Post Square
Dlem & Wing Paper Co. ("Flintoid," etc.),
8th & Egglestou av
Globe Paint & Roofing Co., 232 W 8th
Kramig, R. E. & Co. (Asbestos, etc.), 234
E 6th
Singleton, Ruffner & Co., n e c 8th & Plum
CLEVELAND—**BROWN HOISTING MA-**
chinery Co. ("Ferroinclave"), 4403
St. Clair, N. E. (See adv. index &
branch offices, end of book)
Osborn, J. M. & L. A. Co., 1047 Viaduct
Union Paper & Twine Co. ("Leather-
oid"), 131 St. Slair
COLUMBUS—Columbus Roofing & Supply Co.
MANSFIELD—Bodine Roofing Co. (Wood
Pulp)
TOLEDO—Schillinger Bros. Co. ("Eagle Brand"
Asphalt Gravel Roofs), 215 City Park av

PENNSYLVANIA.

ERIE—WATSON, H. F. CO. ("Indur-rol," Asbestos, etc.), (See adv. Index, end of book)

PHILADELPHIA—Barrett Mfg. Co. ("Black Diamond" Waterproof, 4-Ply & Felt, Pitch & Gravel Roofing, Land Title bldg.)
 Berger, L. D., 59 N 2d
 Berger Bros. Co., 237 Arch.
 Cornell, H. T., 1845 N 6th
 Ehret Magnesia Mfg. Co. (Asbestos, Felts, Cements, Paints, etc.), Land Title bldg.
 France, David Co., Tasker Street Wharf
 Garrett, C. S. & Son Co., 22 S Farshall
 Johns, H. W.—Manville Co., 21 N 2d
 Klmes, J. B. & Co., 1822 Filbert
 Stelwagon Mfg. Co., 19th & Washington av
 United Roofing & Mfg. Co. ("Vulcanite" Ready Roofing, "Congo," Never Break, Acid & Alkali Proof), West End Trust bldg.

PITTSBURG—Booth, J. B. & Co. ("Noleke," "Shedrain," "Boustite" Composition Roofing, Paints, Felts, etc.)

BROWN HOISTING & MACHINERY Co. ("Ferrolnclave", Frick bldg. (See adv. Index & branch offices, end of Le Goulon, P., Bessemer bldg book)

McGraw, J. A. Bros.
 McKallip & Co., ("Pyramid" Ready; also Tar Paper, Asphalt Roofing, Roofing Paper, Slaters' Felt).

Young, J. F., 34th & A V Ry

SLATINGTON—McKenna, David
WILKES-BARRE—Penna. Supply Co.
 Phelps, Lewis & Bennett Co.

YORK—General Roofing Co.

RHODE ISLAND.

PROVIDENCE—Cartler, M. N. & Sons Co.
 Greene, Robert L. Paper Co., 69 Washington

TENNESSEE.

CHATTANOOGA—Chattanooga Roofing & Foundry Co. (Felts, Paints, Pitch, Steel, Eureka Supply Co. Corrugated, etc.)
 James Supply Co.

KNOXVILLE—McClung, Buffat & Buckwell
 McClung, C. M. & Co.

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 Lee Bros. (Comp. & Ready Roofing)

NASHVILLE—Nashville Roofing & Paving Co.

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DALLAS—Buckelew, O. O.
 King, T. F.

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EL PASO—Santa, Fe Fuel Co.

FORT WORTH—Burton-Lingo Co.
 Willis & Tyson

HOUSTON—Berling-Cortes Hardware Co.
 Heltman, F. W. Co. (Iron & Felt)
 Peden Iron & Steel Co. (Ruberoil, etc.)

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UTAH.

SALT LAKE CITY—Morrison, Merrill & Co.

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NORFOLK—Thomas, T. W. & Co.

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WASHINGTON.

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 Brown Bros.
 Henderson, L. A.
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 Chapman, W. H. & Sons
 Johnson's, Geo. W. Sous
 Wilson, W. A. & Sous

WISCONSIN.

MILWAUKEE—Badger Roofing Co., 217 4th
 Frankfurth, Wm. Hdw. Co., 115 W Water
 Johns, H. W.—Manville Co., 225 Claybourn
 Monsted, A. Co., Pabst bldg.
 Pritzlaff, John Hardware Co., 51 W Water
 South Side Roofing Co., 235 Reed
 Windling & Gezelachap, Pabst bldg

Roofing Materials (Asphalt)

(See Asphalt Dealers & Importers; also Asphalt Miners & Refiners; also Roofing, Asphalt)

Roofing Nails

(See Nails, Roofing & Slating)

Roofing (Paroid)

Bldr, F. W. & Son, East Walpole, Mass.

Roofing Pitch

(See Pitch, Paving & Roofing)

Roofing Plate, Metals, Etc.

(See Tin Plate, Metals, Etc.; also Tin Plate Manufacturers)

Roofing (Protected Metal)

Moeschl-Edwards Corrugating Co. ("Gem," Brand Underside protected with Cement paper or Asbestos), Covington, Ky.

Roofing (Rexoid)

Stowell Mfg. Co., Jersey City, N. J.

Roofing (Rubber)

American Asphaltum & Rubber Co. ("Pariette"), Women's Temple, Chicago, Ill.

BURTON, W. J. CO., 161 W Congress,
 Detroit, Mich. (See adv. Index, end of book)

Ford Mfg. Co. ("Ford's Galvanized"), 163 W. Washington, Chicago, Ill.

General Roofing Mfg. Co., East St. Louis, Ill.

Hepbes Co. ("No Tar"), 2427 Fulton, Chicago, Ill.

Lincoln Waterproof Cloth Co. ("Lythoid"), Boundbrook, N. J.

McHenry-Millhouse Mfg. Co. ("Veribest"), South Bend, Ind.

O'Meara, Maurice, Co. ("Perfect"), 448 Pearl, New York

Patent Vulcanite Roofing Co. ("Vulcanite"), 625 S Campbell av, Chicago, Ill.

Sall Mountain Asbestos Mfg. Co. ("Reliance," "Miko"), 68 S Canal, Chicago, Ill.

Street, J. D. & Co. ("Majestic"), 809 N. 2d, St. Louis, Mo.

Unlon Roofing & Mfg. Co. (Asphalt Felt Smooth Surfaced), St. Paul, Minn.

Woodley, J. C. & Co. ("Compo Rubber"), 22d & Lumber, Chicago, Ill.

Roofing Slag

(See Slag, Concrete & Roofing, Etc.)

Roofing Slate (Asbestos)

Asbestos Shingle, Slate & Sheathing Co. ("Century"), Ambler, Pa.

*Roofing Slate ("Eureka" Slate)

EUREKA SLATE QUARRIES, Fair
 Haven, Vt. (See adv. index, end of book)

Roofing Slate Mfrs.

NOTE—(Slate quarried in Maine is all black, ditto Virginia, while that quarried in Pennsylvania & Maryland is also black, but borders on dark blue, & is advertised by some firms as dark blue. Slate quarried in New York is red of various tints, while that quarried in Vermont is of various colors, such as green, purple, variegated, etc.)

GEORGIA.

ROCKMART—Black Diamond Slate Co.
 Rockmart Slate Co.

MAINE.

BATH—Monson Consolidated Slate Co.

BROWNVILLE—Brownville Maine Slate Co.
 (See Worcester, Mass.)
 Merrill Brownville Slate Co.

MONSON—Maine Slate Co. (of Monson)
 Monson Maine Slate Co. (See Boston, Mass.)

PORTLAND—Portland Monson Slate Co.

MARYLAND.

(The slate quarries of this State are on the Penna. State line, & the P. O. address is Delta, Pa.)

MASSACHUSETTS.

BOSTON—Mathews Slate Co.
 Monson Maine Slate Co. (Unfading Black), 113 Devonshire; Quarries at Monson,

WORCESTER—Algonquin Red Slate Co. Me.
 Brownville Maine Slate Co.

NEW YORK.

GRANVILLE—Algonquin Red Slate Co. (See Worcester, Mass.)

American Sea Green Slate Co.
 Butterfield, H. R. & Co.
 Culbertson, Samuel F.
 Edward Slate Co.
 Grauville Slate Co.
 Hughes, W. H. Co.
 Norton Bros.
 O'Brien Bros.
 Owens, Owen W. Sons
 Rice Bros.
 Sheldon, F. C.
 Vermont Slate Co. (Inc.) (See Zanesville, Ohio)
 Williams, R. J. Slate Co.

MIDDLE GRANVILLE—(See also Granville)
 Penrhyn Slate Co.

NEW YORK—Galt, John & Sons, 253 B'way
 Johnson, E. J. Co. (Dealers), 38 Park Row
 Kirtland, W. H., 1123 B'way
 Slatlughton Slate Co., 70 Wall
 Wells, Arthur, 1123 B'way

OHIO.

CLEVELAND—Auld & Conger Co., 942 Prospect. Quarries at Bangor, Me., & Poultney, Vt.

COLUMBUS—Columbus Slate Co. (Wholesale)

ZANESVILLE—Vermont Slate Co. (Quarries, Granville, N. Y.)

PENNSYLVANIA.

BANGOR—Albion Veln Slate Co.
 American Slate Co. (See Easton, Pa.)
 Auld, Conger & Co. Office, Cleveland, O.
 Bangor Crescent Slate Co.
 Bangor Excelsior Slate Co. Office, Easton, Pa.
 Bangor International Slate Co.
 Bangor Peerless Slate Co.
 Bangor Slate Co. (Unfading Black)
 Bangor Slate Mining Co.
 Bangor Washington Slate Co.
 Belmont Slate Co.
 Columbla Bangor Slate Co.
 Hercules Slate Co.
 Keenan Structural Slate Co. (See Easton, Pa.)

Moyer, J. S. & Co. (See Bethlehem, Pa.)
 North Bangor Slate Co.
 Pen-Bangor Slate Co.
 Pittsburg Slate Co. (of Pittsburg)
 Schaeffer, R. F.
 Schoonover, R. P. & Co.
 Stoddard, D. & Son

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 Helmback Slate Co.
 Moyer, J. S. & Co. (Inc.)

CHAPMAN QUARRIES—Chapman Slate Co.
 (See Bethlehem, Pa.)
 Chapman Standard Slate Co.
 Keystone Slate Co.

DANIELSVILLE—Hower, Jeremiah K.
 Lobb, Edwards & Co.
 Motgonnery Slate Co.

DELTA—Excelsior Slate Co.
 Jones, Robt. L., Slate Mfg. Co.
 Miles Peach Bottom Slate Co.
 Peach Bottom Slate Co.
 Peerless Slate Co.
 Proctor Slate Co.
 United Peach Bottom Slate Co.

EAST BANGOR—Bray, J. & Co (Dealers)
 East Bangor Consolidated Slate Co.

EASTON—American Slate Co.
 Bangor Excelsior Slate Co.
 Genuine Bangor Slate Co.
 Keenan Structural Slate Co.
 Penna. Hard Veln Slate Co.

LANCASTER—Peach Bottom Roofing Slate Co.

LYNNPORT—New York Standard Slate Works
 Ontalaunee Slate Mfg. Co.

MAUCH CHUNK—Mauch Chunk Slate Co.

NAZARETH—Belfast Slate Co.

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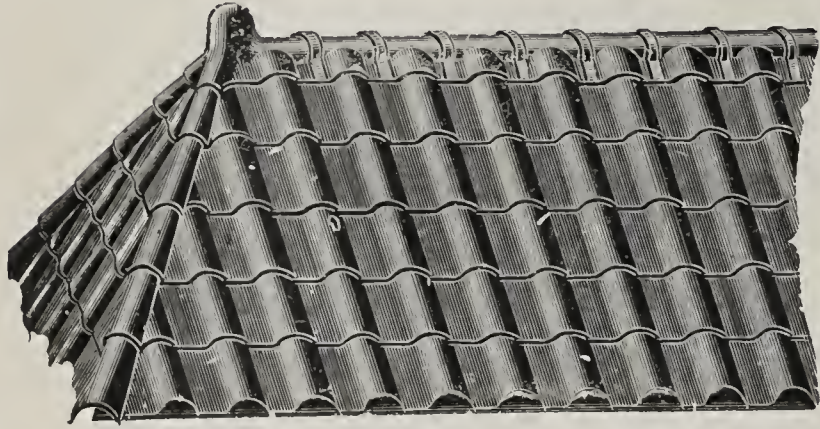
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 Jackson, Richard Slate Co.
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 Pen Argyl Valley Slate Co.
 Stephens, Jackson & Co.
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PHILADELPHIA—Cropper, R. T. (Jobbers)
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 S 7th
 Emack, Jno. D. (Jobber), Stephen Glard
 bldg
 Klmes, J. B. & Co. (Jobbers), 1822 Filbert
PITTSBURG—Pittsburg Slate Co., 714 Jack-
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 Slatington Slate Co.
 Standard Slate Co.
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 Steckel, Samuel (Jobber)
 Unger, Jno. F. Slate Co.
 Washington Slate Co.
 Western Bangor Slate Co.
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 Wyoming Slate Co.
 Zellner, Thos.
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LYNCHBURG—Arvonla Slate Co. Quarries,
 Arvonla, Va.
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 Lloyd, W. H., Fair Haven, Vt.
 Penrhyn Slate Co., 493 E 138th, New York
 Vermont Unfading Green Slate Co., Fair Haven,
 Vt.

Roofing Slate (Red)

Columbus Slate Co., Columbus, O.
 Edwards Slate Co., Granville, N. Y.
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Frost Proof Bituminous Materials), 17 Bat-
tery pl, New York

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book)

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Flat Tile for Factories, Depots, etc.).
Wampum, Pa.

Anderson & Veatch (Concrete), Evansville, Ind.
Diamond Cement Machine Co., Toledo, O.

Perth Amboy Cement & Stone Roofing Tile Co.
(Any Color), Perth Amboy, N. J.

Waterloo Concrete Roofing Co. (Inc.) ("Water-
loo"), Waterloo, Ia.

***Roofing Tile (Conosera)**

LUDOWICI-CELADON CO., Chamber
of Commerce bldg, Chicago, Ill. (See adv.
index & branch offices, end of book)

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AMERICAN CEMENT CO., 80 Wil-
liam, New York. (See adv. index, end of
book)

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of Commerce bldg, Chicago, Ill. (See adv.
index & branch offices, end of book)

***Roofing Tile (Metal)**

(See also Shingles, Metallic)

MULLINS, W. H. CO., 341 Franklin,
Salem, O. (See adv. index, end of book)

NATIONAL SHEET METAL ROOFING
Co. ("Walter's"), 339 Grand, Jersey City,
N. J. (See adv. index, end of book)

**Roofing Tile (Metallic, Spanish
Shapes)**

BERGER MFG. CO., THE, Canton, O.
(See adv. index & branch offices, end of book)

EDWARDS MFG. CO. ("Edwards"),
545-565 Eggleston av., Cincinnati, O. (See
adv. index, end of book)

MERCHANT & EVANS CO. (Inc.), 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)

Meurer Bros. Co., 571 Flushing av, Brooklyn,
N. Y.

MULLINS, W. H. CO., 341 Franklin,
Salem, O. (See adv. index, end of book)

St. Paul Roofing, Cornice & Ornament Co., St.
Paul, Minn.

Roofing Tile (Promenade)

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O. (See adv. index & branch offices, end
of book)

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nati, O.

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of Commerce bldg, Chicago, Ill. (See adv.
index & branch offices, end of book)

(See adv. index & branch offices, end of book)

***Roofing Tile (Roman Grecian)**

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O. (See adv. index & branch offices, end
of book)

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Mitchell av & B. & O. S. W. Ry., Cincin-
nati, O.

LUDOWICI-CELADON CO., Chamber
of Commerce bldg, Chicago, Ill. (See adv.
index & branch offices, end of book)

(See adv. index & branch offices, end of book)

Alfred Clay Co. ("Regal"), Alfred, N. Y.

Bennett, Edw. Roofing Tile Works, Baltimore,
Md.

Cincinnati Roofing Tile & Terra Cotta Co.,
Mitchell av. & B. & O. S. W. Ry., Cincin-
nati, O.

CINCINNATI WALL TILE CO. (Mfrs.)
Agents), 206 E 5th, Cincinnati, O. (See
adv. index, end of book)

Clark, N. & Sons, 17 Spear, San Francisco,
Cal.

Detroit Roofing Tile Co., Bamlet bldg, Detroit,
Mich.

FISKE & CO. (Inc.) (Agents), 25
Arch, Boston, Mass., & Flatiron bldg, New
York. (See adv. index, end of book)

Gladding, McBean & Co., San Francisco, Cal.
Works: Lincoln, Cal.

Huntington Roofing Tile Co. (Shingle Tile),
Huntington, W. Va.

Los Angeles Pressed Brick Co. (Impervious),
Los Angeles, Calif.

LUDOWICI-CELADON CO. ("Cela-
don"), Chamber of Commerce bldg., Chi-
cago, Ill. (See adv. index & branch of-
fices, end of book)

MAURER, HENRY & SON, 420 E 23d,
New York. & Penna bldg. Phila., Pa.
Works: Maurer, N. J. (See adv. Front In-
side Cover)

Mound City Roofing Tile Co., St. Louis, Mo.
Person & Co. ("Akron"), 160 5th av, New York

United States Roofing Tile Co., Parkersburg,
W. Va.

Warrlek Roofing Tile Co., Newburgh, Ind.

Roofing Tile (Terra Cotta Glazed)

AKRON ROOFING TILE CO., Akron,
O. (See adv. index & branch offices, end
of book)

Cincinnati Roofing Tile & Terra Cotta Co.,
Mitchell av. & B. & O. S. W. Ry., Cincin-
nati, O.

LUDOWICI-CELADON CO., 138 Wash-
ington, Chicago, Ill. (See adv. index &
branch offices, end of book)

(See adv. index & branch offices, end of book)

**Roofing Tile (Terra Cotta,
Graduated)**

AKRON ROOFING TILE CO., Akron,
O. (See adv. index & branch offices, end
of book)

Cincinnati Roofing Tile & Terra Cotta Co.
(Vitrified), Mitchell av & B. & O. S. W.
Ry., Cincinnati, O.

LUDOWICI-CELADON CO. ("Cela-
don"), Chamber of Commerce bldg., Chi-
cago, Ill. (See adv. index & branch of-
fices, end of book)

Person & Co. ("Akron"), 160 5th av, New York

(See adv. index & branch offices, end of book)

**Roofing Tile (Terra Cotta, Span-
ish Shapes)**

AKRON ROOFING TILE CO., Akron,
O. (See adv. index & branch offices, end
of book)

Cincinnati Roofing Tile & Terra Cotta Co.
(Vitrified), Mitchell av & B. & O. S. Ry.,
Cincinnati, O.

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Cal.

LUDOWICI-CELADON CO. ("Im-
perial"), Chamber of Commerce bldg., Chi-
cago, Ill. (See adv. index & branch of-
fices, end of book)

PERSON & CO. (Akron Tile), 160
5th av, New York. (See adv. index, end
of book)

(See adv. index & branch offices, end of book)

***Roofing Tin in Rolls**

MERCHANT & EVANS CO. (Inc.), 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)

(See adv. index & branch offices, end of book)

Roofing Tin Mfrs.

American Sheet & Tin Plate Co., Frick bldg,
Pittsburg, Pa.

MERCHANT & EVANS CO. (Inc.), 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)

(See adv. index & branch offices, end of book)

Roofing & Siding (Iron & Steel)

(Star (*) indicates Rolling Mills)

(See also Iron & Steel, Corrugated)

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Middletown, O. (See adv. index, end of
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*American Sheet & Tin Plate Co., Frick bldg., Pittsburgh, Pa.
***BERGER MFG. CO., THE, Main Office & Works, Canton, O.** (See adv. index & branch offices, end of book)
 Cambridge Roofing Co., Cambridge, O.
 Canton Art Metal Co., Canton, O.
CANTON MFG. CO., Canton, O. (See adv. index, end of book)
 Carter Iron Co., Pittsburg, Pa.
 Chattanooga Roofing & Foundry Co., Chattanooga, Tenn.
 Dickelman Mfg. Co., Forest, O.
 Duluth Corrugating & Roofing Co., Duluth, Minn.
 East Birmingham Roofing & Corrugating Co., Birmingham, Ala.
EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)
 Elber Mfg. Co., Canton, O.
 Follansbee Bros. Co., Pittsburg, Pa.
 Fostoria Steel Roofing Co., Fostoria, O.
 Garry Iron & Steel Co., Cleveland, O.
 Gedge Bros. Iron Roofing Co., Anderson, Ind.
 Globe Iron Roofing & Corrugating Co., Newport, Ky.
 Goff, Horner & Co. (Ltd.) ("Muskingum"), Frick bldg., Pittsburg, Pa. Works: Zanesville, O.
 Harry, O. K. Steel Wks., Dallas, Texas.
 Hazelton Sheet Steel Co. (Steel Only), Commonwealth bldg., Phila., Pa.
 Hyndman Roofing Co. (Corrugated Iron, Asbestos Lined), 318 E 2d, Cincinnati, O.
 Indianapolis Corrugating Co., Indianapolis, Ind.
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 Kanneberg Roofing & Ceiling Co., Canton, O.
 Klauer Mfg. Co., Dubuque, Ia.
 La Crosse Steel Roofing & Corrugating Co., La Crosse, Wis.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Moeschl-Edwards Corrugating Co., Covington, Ky.
 Nelson, A. J. Mfg. Co. (Ltd.), 1001 Howard av., New Orleans, La.
 New England Steel Roofing Co., Worcester, Mass.
 N. Y. Iron Roofing & Corrugating Co., Jersey City, N. J.
NEW YORK METAL CEILING CO., 537 W 24th, New York. (See adv. index, end of book)
 Niles Corrugating Co., Niles, O.
 Niles Iron & Steel Roofing Co., Niles, O.
 Ohio Galvanizing & Mfg. Co. (Steel Only), Niles, Ohio.
 Penn Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Philadelphia, Pa.
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 Reeves Mfg. Co., Canal Dover, O.
 St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.
***SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburg, Pa.** (See adv. index, end of book)
 Scott Corrugated Roof Co., Parkersburg, W. Va.
 Sheet Metal Mfg. Co., Niles, O.
 Souther, E. E. Iron Co., St. Louis, Mo.
 Southern Roofing Co., Atlanta, Ga.
 Steel Roofing & Stamping Works, Des Moines, Iowa.
 Sykes Metal Lath & Roofing Co., Niles, O.
 Thomas Steel Co., Niles, Ohio.
 Twichell Iron Co., Kansas City, Mo.
 Wheeling Corrugating Co., Wheeling, W. Va.
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(See Rope, Steel Switching & Wrecking)

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(See also Cordage & Twine Manufacturers)

American Mfg. Co. (Hemp Clothes Lines), 63 Wall, New York.
 Boscowan Mills (Inc.), Penacook, N. H.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

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 Cleveland Mill & Power Co. (Clotheslines, etc.), Lawndale, N. C.
 Consolidated Cotton Duck Co., Baltimore, Md.
 Elder, Jas., 230 W Coulter, Gtn., Phila., Pa.
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 Goss Bros., Fall River, Mass.
 Holden, Jas., Fall River, Mass.
 Hooper Sons Mfg. Co., 509 Arch, Phila., Pa.
 Lambeth Rope Corp'n (Transmission, etc.), New Bedford, Mass.

Laural Cotton Mills, Laural, Miss.
 Little River Mfg. Co., Willardville, N. C.
SAMSON CORDAGE WORKS (Rope, Cotton, etc.), 88 Broad, Boston, Mass. (See adv. index, end of book)
 Small Bros., Fall River, Mass.
 Toohey, M. J. & Co., Fall River, Mass.

TUCKER & CARTER ROPE CO. ("T & C" Brand, All Thread), 76 South & 167 Maiden La., New York. (See adv. index, end of book)

Rope Drives

American Mfg. Co., 63 Wall, New York.
 Builders' Iron Foundry (Manilla), Providence, R. I.
 Caldwell, H. W., & Son Co., 17th & Western av., Chicago, Ill.
 Cresson, Geo. V. Co., Allegheny av & N 17th, Phila., Pa.

Dodge Mfg. Co., Mishawaka, Ind.
 Howe Scale Co. (of Illinois), 1315 Wabash av., Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.
 Link Belt Co., W 39th & Stewart av., Chicago, Ill., & 299 B'way, New York
 Skillin & Richards Mf. Co., 147 Fulton, Chicago, Ill.
 Strait, H. N. Mfg. Co. (Vertical or Horizontal), Kansas City, Mo.

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(See Rope, Steel Switching & Wrecking; also Wire Rope & Cables; also Rope, Manilla & Sisal)

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 Kelly, R. A. Co., Xenia, Ohio
 Ludlow Mfg. Associates, Boston, Mass.
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Paxson, J. W. Co. (Machine Twisted), Phila., Pa.
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TRENTON IRON CO. (Patented), Trenton, N. J., & 30 Church, New York. (See adv. index, end of book)

Rope (Manila Switch)

(See Rope, Manila Transmission)

Rope (Manila Transmission)

American Mfg. Co., 63 Wall, New York.
CARPENTER, GEO. B. & CO. ("Old Colony"), 202 S Water, Chicago, Ill. (See adv. index, end of book)
COLUMBIAN ROPE CO., Auburn, N. Y. (See adv. index, end of book)

Hooven & Allison Co., Xenia, O.
 Kelly, R. A. Co., Xenia, Ohio
 Lambeth Rope Corp'n. (Cotton), New Bedford, Mass.
 New York Cordage Co. ("Nycord"), 79 Wall, New York

Plymouth Cordage Co., North Plymouth, Mass.
 Portland Cordage Co., Portland, Ore.
 Tubbs Cordage Co., San Francisco, Cal.
TUCKER & CARTER ROPE CO., 76 South & 167 Maiden La., New York. (See adv. index, end of book)
 Whitlock Cordage Co., 46 South, New York

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 Bay State Cordage Co. (Also New Zealand), Boston, Mass.

Boehme & Rauch Cordage Co., Monroe, Mich.
BRODERICK & BASCOM ROPE CO., 809 N. Main, St. Louis, Mo. (See adv. index, end of book)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Chelsea Jute Mills, 1155 Manhattan av. & 346 B'way, New York

COLUMBIAN ROPE CO., Auburn, N. Y. (Hoisting, Bale, Hay & Hide & Rope; also Jute & Hemp Rope, etc.), Auburn, N. Y. (See adv. index, end of book)

De Grauw, Aymar & Co., 35 South, New York
 Fltler, Edw. H. Co., 22 N Delaware av., Philadelphia, Pa.
 Fricke, J. E. Co., 247 Market, Phila., Pa.
 Hoffman-Corr Mfg. Co., 55 White, New York
 Hooven & Allison Co., Xenia, O.
 Hunt, C. W. Co. (Stevedore), West New Brighton, S. I., N. Y.

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 New York Cordage Co., 79 Wall, New York

Overman & Schrader Cordage Co., Covington, Ky.
 Peoria Cordage Co., Peoria, Ill.
 Planet Mills Mfg. Co. (Jute Rope), 335 Carroll, Brooklyn, N. Y.

Plymouth Cordage Co., N. Plymouth, Mass.
 Portland Cordage Co. (Trade Mark "P"), Portland, Ore.
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Tragle Cordage Co. (Wholesale Dealers), Reading, Pa.
 Travers Twine & Cordage Co., 261 B'way, New York

Tubbs Cordage Co., San Francisco, Cal.
TUCKER & CARTER ROPE CO., 76 South & 167 Maiden La., New York. (See adv. index, end of book)
 Upson-Walton Co. (Wholesale), Cleveland, O.

Wall Rope Works, 56 South, New York
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)

Waterbury Co. (Inc.), 69 South, New York
 Whitlock Cordage Co., 46 South, New York

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 National Rawhide & Belting Co., Niles, Mich.
 Western Rawhide & Belting Co., Milwaukee, Wis.

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Rope (Steel Switching & Wrecking)

BRODERICK & BASCOM ROPE CO., 809 N. Main, St. Louis, Mo. (See adv. index, end of book)

CARPENTER, GEO. B. & CO., 202 S. Water, Chicago, Ill. (See adv. index, end of book)

Hazard Mfg. Co. (Locomotive Cast Steel), Wilkesbarre, Pa., & 50 Dey, New York

Leschen, A. & Sons Rope Co., 920 N 1st, St. St. Louis, Mo.

MACOMBER & WHYTE ROPE CO., 266 S Clinton, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)

Roebling's, Jno. A. Sons Co. (Of New York), Trenton, N. J., & 117 Liberty, New York

TRENTON IRON CO. (Patented), Trenton, N. J., & 30 Church, New York. (See adv. index, end of book)

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

***Rope (Steel & Iron)**

AMERICAN STEEL & WIRE CO. (For Elevators, Rigging, Mining & Hoisting), Commercial National Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

TRENTON IRON CO. (Patented), Trenton, N. J., & 30 Church, New York. (See adv. index, end of book)

Rope (Tarred)

(See Yarn, Tarred)

Rope (Wire)

(See Wire Rope & Cable Manufacturers)

Ropes (Plough Steel)

Hazard Mfg. Co. (Cast Steel & Plough Steel, Flat Rope), Wilkes-Barre, Pa.

TRENTON IRON CO. (Patented), Trenton, N. J., & 30 Church, New York. (See adv. index, end of book)

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General Electric Co., Schenectady, N. Y.

Hart Mfg. Co., Hartford, Conn.

Palste, H. T. Co., 32d & Arch, Phila., Pa.

Pass & Seymour, Inc., Solvay, N. Y.

Peru Electric Mfg. Co., Peru, Ind.

Sears, Henry D., 131 State, Boston, Mass.

Trumbull Electric Co., Plainville, Ohio

Rosettes & Pickets (Iron)

Keystone Drop Forge Works (Drop Forged), Chester, Pa.

Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

***Rosettes & Pickets (Steel)**

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WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Rosin Mfrs.

Adams, F. C. (Mfrs. Agt.), 36 La salle, Chicago, Ill.

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Martin, W. A. & Co., Wilmington, N. C.

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Peninsular Naval Stores Co., Tampa, Fla.

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Waever & Lea Co., 118 Hudson, New York

Webb, A. L. & Sons, Baltimore, Md.

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(See Pumice Stone Importers)

Rouge

(See Buffing Compositions)

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Faber, ESberhard, 299 B'way, New York.

Goodrich, B. F. Co. (For All Uses), Akron, O.

Goodyear Tire & Rubber Co., Akron, O.

PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)

Rubber Bumpers & Cushions

Federal Rubber Co., Cudahy, Wis.

Goodrich, B. F. Co., Akron, O.

Morgan & Wright (Inc.), Detroit, Mich.

PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)

Wilkie Rubber Mfg. Co., Saugus, Mass.

Rubber Flux

Massachusetts Chemical Co., Walpole, Mass.

Rubber Goods (Druggists' & Surgical)

American Hard Rubber Co., 9 Mercer, New York

Canton Rubber Co. (Seamless Rubber Goods), Canton, O.

Cleveland Rubber Wks., Cleveland, O.

Davidson Rubber Co., Boston, Mass.

Faultless Rubber Co., Ashland, O.

Goodrich, B. F. Co., Akron, O.

Imperial Rubber Mfg. Co., Beach City, O.

L. & M. Rubber Works ("Buckskin"), Carrollton, O.

Miller Rubber Mfg. Co., Akron, O.

Morgan & Wright (Inc.), Detroit, Mich.

Myers Mfg. Co. ("Costa"), Fremont, O.

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Rubber Products Co., Barberton, O.

Seamless Rubber Co., New Haven, Conn.

Tyler Rubber Co., Andover, Mass.

Rubber Goods (Hard)

(See Rubber, Hard)

Rubber Goods (Moulded)

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BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York.

(See adv. index & branch offices, end of book)

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Canton Rubber Co., Canton, O.

Continental Rubber Works, Erie, Pa.

Faultless Rubber Co., Ashland, O.

Goodrich, B. F. Co., Akron, O.

Home Rubber Co., Trenton, N. J.

Milford Rubber Works, Milford, Del.

National India Rubber Co., Bristol, R. I.

PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)

Tyler Rubber Co., Andover, Mass.

Western Rubber Works, Goshen, Ind.

Wilkie Rubber Mfg. Co., Saugus, Mass.

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Davidson Rubber Co. (Drug, Dental & Surgical, etc.), Boston, Mass.

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Luzerne Rubber Co., Trenton, N. J.

Morgan & Wright, Detroit, Mich.

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Stokes, Jos. Rubber Co., Trenton, N. J.

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Wilkie Rubber Mfg. Co., Saugus, Mass.

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B. & R. Rubber Co., North Brookfield, Mass.

Continental Rubber Works, Erie, Pa.

Federal Rubber Co., Cudahy, Wis.

Firestone Tire & Rubber Co., Akron, O.

Goodrich, B. F. Co., Akron, O.

Goodyear Tire & Rubber Co., Akron, O.

Home Rubber Co., Trenton, N. J.

Mears Rubber Co. ("Mears"), 338 Broadway, Brooklyn, N. Y.

Morgan & Wright (Inc.) ("Federal," "Samson," "Chicago," "Dexter," "Pacific," "Atlantic," "Sterling," "Atlas," "National," "Ajax," "Newport," "Rambler," "Peerless Cushion," "Carroll Road"), Detroit, Mich.

Peerless Rubber Co., 16 Warren, New York

PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)

Plymouth Rubber Co., Stoughton, Mass.

Revere Rubber Co., Boston, Mass.

Voorhes Rubber Mfg. Co., Jersey City, N. J.

WHITMAN & BARNES MFG. CO. ("W & B"), West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

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SAN FRANCISCO—American Rubber Mfg. Co. (Mechanical)

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 Mechanical Rubber Co. (Mechanical), 230 Randolph
 N. Tire Rubber Sponge Co. (Rubber Sponges), 41 E Indiana
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MARION—Marion Insulated Wire & Rubber Co. (Insulated Wires & Cables)
MISHAWAKA—Mishawaka Woollen Mfg. Co. (Boots & Shoes)

KANSAS.

OLATHE—Great Western Rubber Co. (Mechanical)

MASSACHUSETTS.

ANDOVER—Tyler Rubber Co. (Druggists' & Stationers' Sundries, Sporting & Molded Goods)
BOSTON—American Rubber Co. (Footwear & Clothing), Controlled by U. S. Rubber Co.
 American Steam Packing Co. (Steam Packing)
 Baker Rubber Cement Co. (Inc.) (Cement)
 Bay State Rubber Co. (Footwear), Controlled by U. S. Rubber Co.
BOSTON BELTING CO. (Mechanical, etc.), (See adv. index, end of book)
 Boston Rubber Shoe Co. (Footwear), Controlled by U. S. Rubber Co.
 Clifton Mfg. Co. (Rubber Tubing, Insulating Conduits & Clothing, etc.)
 Columbia Rubber Co. (Waterproof Clothing)
 Davidson Rubber Co. (Druggists' Sundries & Hard Rubber Goods)
 Foster Rubber Co. (Heels & Shoes, Horse Shoe Pads, Crutch Tips, etc.)
 Franklin Rubber Co. (Clothing)
 Hale, Alfred Rubber Co. (Diving Apparatus & Molded Work)
 Hawthaway, C. L. & Sons (Inc.) (Cements)
 Hood Rubber Co. (Footwear)
 Hoyt Rubber Co. (Molded Goods & Specialties)
 Massachusetts Rubber Co. (Footwear)
 Melrose Rubber Co. (Controlled by Boston Rubber Shoe Co.)
 Milford Rubber Co. (Proofer for the Trade)
 Milford Rubber Cement Co. (Cements)
 New England Blacking Co. (Cements)
 New England Rubber Co. (Controlled by Hood Rubber Co.)
 Reading Rubber Mfg. Co. (Carriage Cloth & Melodeon Cloth)

Revere Rubber Co. (Mechanical Goods & Tires, etc.)
 Shawmut Rubber Co. (Controlled by Hood Rubber Co.)
 Shawmut Tire Co. (Auto Tires & Tubes)
 Simplex Electrical Co. (Insulated Wires & Cables)
 United States Rubber Co. (Holding Company for American Rubber Co., and Other Companies)

BROCKTON—Hazen-Brown Co. (Cements)

CAMBRIDGE—American Rubber Co. (See Boston)

Boston Woven Hose & Rubber Co. (Mechanical Goods)

Simplex Electrical Co. (See Boston)

CAMPELLO—Stowe & Woodward Co. (Proofing of Cloth & Mechanical Goods)

CANTON JUNCTION—C-C-C Fire Hose Co. (Rubber-Lined Cotton Fire Hose)

CHELSEA—American Circular Loom Co. (Interior Conduits)

Boston Blacking Co. (Cement)

Revere Rubber Co. (See Boston)

CHICOPEE FALLS—Flisk Rubber Co. (Tires)

Spaulding, A. G. & Bros. Mfg. Co. (Golf Balls & Sporting Goods)

CLARENDON HILLS—New England Rubber Mfg. Co. (Waterproof Clothing)

EAST CAMBRIDGE—(See Cambridge)

EASTHAMPTON—Easthampton Rubber Thread Co. (Rubber Thread & Bands)

EAST WATERTOWN—Hood Rubber Co. (See Boston)

Shawmut Tire Co. (See Boston)

HUDSON—Apsley Rubber Co. (Clothing & Footwear)

HYDE PARK—Bay State Insulated Wire & Cable Co. (Insulated Wires & Cables)

Hyde Park Rubber Co. (Clothing)

LOWELL—Lowell Insulated Wire Co. (Rubber-Covered Wires & Lamp Cords)

LYNN—Hadley Cement Co. (Cements)

MALDEN—Boston Rubber Shoe Co. (See Boston)

Franklin Rubber Co. (See Boston)

MELROSE—Boston Rubber Shoe Co. (See Boston)

MILFORD—Archer Rubber Co. (Proofing for the Trade)

Milford Rubber Co. (See Boston)

MILLVILLE—Woonsocket Rubber Co. (See Woonsocket, R. I.)

NORTH BROOKFIELD—B. & R. Rubber Co. (Molded Goods)

READING—Commonwealth Rubber Co. (Mechanical Goods & Tires)

Metropolitan Air Goods Co.

Reading Rubber Mfg. Co. (See Boston)

SALEM—Salem Rubber Cement & Shoe Findings Co. (Cements)

STOUGHTON—Plymouth Rubber Co. (Proofer for the Trade, Molded Work & Heel Pads)

Spaulding, A. G. & Bros. Mfg. Co. (See Chicopee Falls, Mass.)

Stoughton Rubber Co. (Clothing & Molded Goods), Controlled by Rubber Goods Mfg. Co.

WALPOLE—Massachusetts Chemical Co. (Rubber Insulating Tapes, Mechanical Goods, Cements, Molded Work, etc.)

Foster Rubber Co. (See Boston)

Walpole Rubber Co. (See Massachusetts Chemical Co.)

WORCESTER—**AMERICAN STEEL & Wire Co.** (Insulated Wires) (See adv. index, end of book)

Multiple Woven Hose & Rubber Co. (Fire Hose)

MICHIGAN.

DETROIT—Detroit Insulated Wire Co. (Rubber-Covered Wire)

Morgan & Wright (Mechanical Goods, Tires & Molded Goods)

Walderspin Tire Co. (Tires)

MINNESOTA.

MINNEAPOLIS—F. & M. Cement Specialty Co. (Cements & Compounds)

MISSOURI.

ST. LOUIS—Banner Rubber Co. (Footwear)

St. Louis Rubber Cement Co. (Cements)

NEW HAMPSHIRE.

CLAREMONT—Maynard Shoe Co. (Footwear)

EXETER—Rubber Step Mfg. Co. (Carriage Accessories)

MILFORD—Milford Rubber Cement Co. (See Boston)

NEW JERSEY.

ABELLINGTON—Kempshall Mfg. Co. (See New York City)

BAYONNE—Safety Insulated Wire & Cable Co. (See New York City)

BLOOMFIELD—Combination Rubber Mfg. Co. (Mechanical), Controlled by Hamilton Rubber Mfg. Co., Trenton, N. J.

Essex Rubber Co. (See Trenton, N. J.)

BUTLER—American Hard Rubber Co. (See New York City)

EAST ORANGE—Seabury & Johnson (See New York City)

ELIZABETH—Jenkins Rubber Co. (See New York City)

GARFIELD—Laurel Rubber Co. (Stationers' Sundries)

HARRISON—Driver-Harris Wire Co. (Insulated Wires)

HOBOKEN—American Lead Pencil Co. (See New York City)

IRVINGTON—Ash, Claudius & Sons (Ltd.) (See New York City)

JERSEY CITY—New Jersey Car Spring & Rubber Co. (Mechanical, etc.)

Eureka Fire Hose Mfg. Co. (See New York City)

Voorhees Rubber Mfg. Co. (Mechanical)

MORRISVILLE—Vulcanized Rubber Co. of New York (See New York City)

NEWARK—Ennis-Ruff Tire Co. (See New York City)

Faber, A. W. (See New York City)

Faber, Eberhard (See New York City)

NEW BRUNSWICK—Cincha, Staffer Co. (Rubber Stoppers)

India Rubber Co. (Controlled by Rubber Goods Co., New York City)

Johnson & Johnson (Rubber Plasters)

United States Rubber Co. (See New York City)

NEW DURHAM—Peerless Rubber Mfg. Co. (Controlled by Rubber Goods Co., New York City)

PASSAIC—Manhattan Rubber Mfg. Co. (Mechanical)

New York Belting & Packing Co. (Ltd.) (Controlled by Rubber Goods Co., New York City)

OKONITE CO. (Ltd.), (See New York City). (See adv. index, end of book)

PATERSON—Elwell Rubber Works

La Favorite Rubber Mfg. Co. (Mechanical)

PERTH AMBOY—Standard Underground Cable Co. (See Pittsburgh, Pa.)

TRENTON—Acme Rubber Mfg. Co. (Mechanical)

Ajax-Grieb Rubber Co. (See New York City)

Crescent Belting & Packing (Mechanical)

Crescent Insulated Wire & Cable Co. (Insulated Wire)

Elwell Rubber & Insulation Co.

Empire Automobile Tire Co. (Auto Tires)

Empire Rubber Mfg. Co. (Mechanical)

Essex Rubber Co. (Specialties for the Shoe Trade), Factory, Bloomfield, N. J.

Hamilton Rubber Mfg. Co. (Mechanical)

Home Rubber Co. (Mechanical)

Home Tire Co. (Auto Tires), Controlled by Home Rubber Co.

Luzerne Rubber Co. (Hard Rubber)

Mercer Rubber Co. (Mechanical)

Perfection Rubber Co. (Molded Goods)

Roebbing's, Jno. A. Sons Co. (Insulated Wires & Cables)

Stokes, Joseph Rubber Co. (Hard Rubber & Mechanical)

Trenton Rubber Mfg. Co. (Mechanical)

United & Globe Rubber Mfg. Co. (Mechanical)

Whitehead Bros. Rubber Co. (Mechanical)

Woven Steel Hose & Cable Co. (Mechanical)

NEW YORK.

BATAVIA—Sweet Tire & Rubber Co. (Tires)

BUFFALO—Buffalo Rubber Mfg. Co. (Dipped Goods)

Buffalo Weaving & Belting Co. (Rubber Belting & Webbing)

Hewitt Rubber Co. (Mechanical Goods & Hose Specialties)

LOCKPORT—Empire Mfg. Co. (Rubber-Lined Cotton Hose & Belting)

Niagara Rubber Co. (Mechanical Goods & Tires)

MAMARONECK—Soltau, Robt. (See New York City)

MATTEAWAN—New York Rubber Co. (See New York City)

MT. VERNON—Hodgman Rubber Co. (See New York City)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Behrend & Rothchild (Novelties in Dipped Goods), 353 B'way
Brooklyn Hard Rubber Co. (See Brooklyn Rubber Co.)
Brooklyn Rubber Co. (Hard & Soft Rubber Specialties), 395 Sumner av
Brooklyn Sheld Co. (See Brooklyn Rubber Co.)
Doherty, Eugene (Est. of) (Dental & Stamp Rubber), 112 Kent av
Dow Tire Co. (Foot of 36th (See New York City))
Gutta Percha & Rubber Mfg. Co. (See New York City)
Waterbury Co. (See New York City)

Boroughs of Manhattan & Bronx.

NEW YORK—Ajax-Grieb Rubber Co. (Tires, Soles & Heels), 1776 B'way. Factory, Trenton, N. J.
American Hard Rubber Co. (Hard Rubber Goods), 9 Mercer. Factories, College Point, Borough of Queens, New York, Butler, N. J., Akron, O.
American Lead Pencil Co. (Rubber Erasers & Bands), 43 W. 4th. Factory, Hoboken, N. J.
American Wringer Co. (Rubber Rolls), 99 Chambers. Factory, Woonsocket, R. I.
Ash, Claudius & Sons (Ltd.) (Dental Rubber), 30 E 14th. Factory, Irvington, N. J.
Atlantic Insulated Wire & Cable Co. (Insulated Wires), 120 Liberty. Factory, Stamford, Conn.
Bishop Gutta Percha Co. (Insulated Wire & Cables, Gutta Percha Tissue), 420 E 25th
KERITE INSULATED WIRE & CABLE Co. (Insulated Wires & Cables), 30 Church. Factory, Seymour, Conn. (See adv. index, end of book)
Consolidated Rubber Tire Co. (Tires), 243 W 47th. Factory, Buckeye Rubber Co., Akron, O.
Continental Caoutchouc Co. (Tires), 43 Warren. Factories, Boston, Mass., & Hanover, Germany
Dow Tire Co. (Inner Tubes), 104 W 42d. Factory, Brooklyn, N. Y.
Eagle Pencil Co. (Rubber Erasers, etc.), 507 W 26th
Electric Cable Co. (Electric Cables, "Votax" Insulation), 17 Battery pl. Factory, Bridgeport, Conn.
Ennis-Ruff Tire Co. ("Ruff" Spring Tires), 1876 B'way. Factory, Newark, N. J.
Eureka Fire Hose Mfg. Co. (Rubber-Lined Fire Hose), 13 Barclay. Factory, Jersey City, N. J.
Faber, A. W. (Erasers & Stationers' Rubber Goods), 44 E 23d. Factory, Newark, N. J.
Faber, Eberhard, Firm of. (Erasers & Stationers' Rubber Goods), 299 B'way. Factory, Newark, N. J.
Fabric Fire Hose Co. (Fire Hose), Duane & Church. Factory, Sandy Hook, Conn. Controlled by Rubber Goods Mfg. Co., New York City
Goodyear India Rubber Glove Mfg. Co. (Footwear, Clothing, Druggists' Sundries, etc.), 503 B'way. Factory Naugatuck, Conn. Controlled by U. S. Rubber Co., New York City
Goodyear Rubber Co. (Footwear), 787 B'way. Factory, Middletown, Conn.
Gutta Percha & Rubber Mfg. Co. (Mechanical), 126 Duane. Factory, Brooklyn, N. Y.
Healey Leather Tire Co. (Tires), 90 Gold
Hodgman Rubber Co. (Mackintoshes, Rubber Clothing, Druggists' & Stationers' Sundries & Air Goods), 806 B'way. Factories, Tuckahoe, N. Y., & Mt. Vernon, N. Y.
Imperial Rubber Works (Dental Rubber), 26 W B'way, Edw. J. McCormick, Propt.
Habrshaw Wire Co. (Insulated Wires), 253 B'way. Factory, Yonkers, N. Y.
Jenkins Rubber Co. (Mechanical Packings, Valves, etc.), 71 John. Factory, Elizabeth, N. J., Jenkins Bros. Propts.
Johnson & Johnson (Rubber Medical Plasterers), 100 William. Factory, New Brunswick, N. J.
Kempshall Mfg. Co. (Golf Balls, etc.), 475 B'way. Factory, Arlington, N. J.
Kleinert, I. B. Rubber Co. (Dental Rubber & Dress Shields), 725 B'way. Factory, College Point, Borough of Queens, New York City
Major Cement Mfg. Co. (Cements), 461 Pearl

Mechanical Rubber Co. (Mechanical), 73 Reade. Controlled by Rubber Goods Mfg. Co., New York City
New York Belting & Packing Co. (Mechanical, Mattings, etc.), 91 Chambers. Factories, Passaic, N. J. Controlled by Rubber Goods Mfg. Co., New York City
New York Gas Tubing Co. (Gas Tubings), 95 Bank
New York Insulated Wire Co. (Insulated Wires & Hard Rubber, Insulating Tapes, Gasket Packing, etc.), 114 Liberty. Factory, Wallingford, Conn.
New York Rubber Co. (Mechanical Toys, etc.), 84 Reade. Factory, Matteawan, N. Y.
OKONITE CO. (Ltd.) (Insulated Wires & Cables), 253 B'way. Factory, Passaic, N. J. (See adv. index, end of book)

Parker-Stearns & Co. (Druggists' Sundries & Auto Goods), 228 South
Peerless Rubber Mfg. Co. (Mechanical), 16 Warren. Factory, New Durham, N. J. Controlled by Rubber Goods Mfg. Co., New York City

Rubber Goods Mfg. Co. (Mechanical, Tires, etc.), 42 B'way, New York. This Company also controls the following Companies:

Fabric Fire Hose Co., New York City
G. & J. Tire Co., Indianapolis, Ind.
India Rubber Co., New Brunswick, N. J.
Indianapolis Rubber Co., Indianapolis, Ind.
Mechanical Rubber Co., Chicago, Ill.
Mechanical Rubber Co., Cleveland, O.
Mechanical Rubber Co., New York
Morgan & Wright, Detroit, Mich.
New York Belting & Packing Co., New York
Peerless Rubber Mfg. Co., New York
Stoughton Rubber Co., Stoughton, Mass.

Safety Insulated Wire & Cable Co. (Insulated Wires & Cables), 114 Liberty. Factory, Bayonne, N. J.
Seabury & Johnson (Rubber Plasters), 59 Malden Lane. Factory, East Orange, N. J.
Soltau, Robt. (Gutta Percha Tissue), 75 John. Factory, Mamaroneck, N. Y.
Traun Rubber Co. (Dental & Druggists' Sundries, Stamp Rubber, etc.), 335 B'way. Factory, College Point, Borough of Queens, New York City
Triumph Steam Packing Co. (Packings, etc.), 90 W B'way. Factory, Palmyra, N. Y.

United States Rubber Co. (Footwear, Clothing, Druggists' Sundries, Insulated Wires, etc.), 42 B'way. This Company also controls the Rubber Goods Mfg. Co., New York City, & subsidiary Companies that follow under their name. The United States Rubber Co. also controls the following:
American Rubber Co., Boston, Mass.
Banigan, Jos. Rubber Co., Providence, R. I.
Bay State Rubber Co., Boston, Mass.
Boston Rubber Shoe Co., Boston, Mass.
Candee, L. & Co., New Haven, Conn.
Goodyear Metallic Rubber Shoe Co., Naugatuck, Conn.
Lycoming Rubber Co., Williamsport, Pa.
National India Rubber Co., Bristol, R. I.
Rubber Goods Mfg. Co., New York
Woonsocket Rubber Co., Woonsocket, R. I.

Vulcanized Rubber Co. of New York (Hard Rubber Goods), 488 B'way. Factory, Norristown, N. J.
Waterbury Co. (Seamless Insulated Rubber Wires), 69 South. Factory, Brooklyn, N. Y.

Borough of Queens.

COLLEGE POINT—Kleinert, I. B. Rubber Co. (See New York City)
LONG ISLAND Rubber Stopple Co. (Small Molded Goods), W. R. Rhoades & Co., Props.

Borough of Richmond.

PRINCES BAY—White, S. S. Dental Mfg. Co. (See Phila., Pa.)

(End of New York City)

PALMYRA—Crandall Packing Co. (Packings, Dealers Packing Co. (Packings) etc.)
Garlock Packing Co. (Packings & Mechanical)

Triumph Steam Packing Co. (See New York City)

ROME—Wire & Telephone Co. of America (Insulated Wires)

SCHENECTADY—GENERAL ELECTRIC Co. (Insulated Wires). (See adv. index, end of book)

SETAUKET—Suffolk Rubber Co. (Footwear)

SYRAOUSE—Reed Electric Cordage Co. (Insulated Wires)
LUCKOHOE—Hodgman Rubber Co. (See New York City)
YONKERS—Habrshaw Wire Co. (See New York City)

OHIO.

AKRON—Akron Pneumatic Tire Co. (Tires & Tubes)
American Hard Rubber Co. (See New York City)

Betzler & Willson (Fountain Pens)

Buckeye Rubber Co. (See Consolidated Rubber Tire Co., New York City)

Colonial Tire & Rubber Co. (Swinehart Tires)

DIAMOND RUBBER CO. (Mechanical Rubber Goods, Hard Rubber, Tires, etc.). (See adv. index, end of book)

Firestone Tire & Rubber Co. (Tires)

Goodrich, B. F. Co. (Mechanical Rubber Goods, Tires, Stationers' & Druggists' Sundries, etc.)

Goodyear Tire & Rubber Co. (Mechanical Goods, Tires, Druggists' Sundries, etc.)

Lyon, O. G. (Gloves & Other Dipped Goods)

Miller Rubber Co. (Molded Work, Seamless Gloves, etc.)

Motz Clincher Tire & Rubber Co. (Tires)

Plke, O. C. (Rubber Specialties) (dries)

Star Rubber Co. (Seamless Druggists' Sundries)

Stein Double Cushion Tire Co. (Carriage Tires)

Swinehart Clincher Tire Co. (Carriage Tires)

ASHLAND—Faultless Rubber Co. (Druggists' & Surgical Sundries, Molded Goods, etc.)

BARBERTON—Rubber Products Co. (Mechanical & Druggists' Sundries)

BEACH CITY—Imperial Rubber Mfg. Co. (Seamless & Druggists' Sundries.) (See Also Canton)

CANTON—Canton Rubber Co. (Seamless Goods & Druggists' Sundries)

Imperial Rubber Mfg. Co. (See Beach City, O.)

L. M. Rubber Works (Rubber Sundries)

CARROLLTON—Mitzel Rubber Co. (Mechanical, Air Goods & Druggists' Sundries)

CINCINNATI—Cincinnati Rubber Mfg. Co. (Mechanical)

CLEVELAND—Huron Rubber Co. (Pure Gum Specialties)

Mechanical Rubber Co. (Mechanical & Druggists' Sundries), Controlled by Rubber Goods Mfg. Co. (See New York City)

DAYTON—Dayton Rubber Mfg. Co. (Mechanical)

MINERAL CITY—Progressive Rubber Co. (Hard Rubber Harness Mountings, etc.)

SPRINGFIELD—Springfield Electric Thread Co. (Heels.) (See Springfield Tire & Rubber Co.)

Springfield Tire & Rubber Co. (Mechanical, Tires & Molded Goods)

Victor Rubber Co. (Mechanical, Tires, etc.)

TOLEDO—National Cement & Rubber Mfg. Co. (Cements, Friction Tapes, etc.)

WARREN—Packard Electric Co. ("Packard," Cable)

YOUNGSTOWN—Republic Rubber Co. (Mechanical, Tires, etc.)

PENNSYLVANIA.

AMBLER—Keasbey & Mattison Co. (Asbestos & Rubber Packings)

BLOOMSBURG—Wirt, Paul E. (Fountain Pens)

ERIE—Continental Rubber Works (Mechanical, Tires, etc.)

Erie Rubber Works (Molded Work)

Lake Shore Rubber Co. (Mechanical)

JEANNETTE — PENNSYLVANIA RUBBER Co. (Mechanical, Tires, etc.) (See adv. index, end of book)

MORRISVILLE—Vulcanized Rubber Co. (See New York City)

PHILADELPHIA—Montgomery Bros. (Inc.) (Cements), 48 N Front

Moore, Alfred F. (Insulated Wires), 200 N 3d

National Metal Back Rubber Tiling Co. (Tiling), Betz bldg

Quaker City Rubber Co. (Mechanical), 629 Market

White, S. S. Dental Mfg. Co. (Dental Supplies), 12th & Chestnut. Factory, Princes Bay, Borough of Richmond, New York City

PITTSBURG—Standard Underground Cable Co. (Insulated Wires.) Factory, Perth

Aubrey, N. Y.

WILKES-BARRE—Hazard Mfg. Co. (Insulated Wires)

WILLIAMSPORT — Lycoming Rubber Co. (Boots & Shoes), Controlled by U. S.

Rubber Co. (See New York City)

RHODE ISLAND.

BRISTOL—Consumers' Hubber Co. (Insulated Wires)
National India Rubber Co. (Insulated Wires, Footwear, Mechanical Goods, Druggists' Sundries, Carriage Cloth), Controlled by U. S. Rubber Co. (See New York City)
PAWTUCKET—Collyer Insulated Wire Co. (Insulated Wires & Cables, & Rubber Packings)
PHILLIPSDALE—American Electrical Works (Insulated Wires)
PROVIDENCE—Baugan, Jos. Rubber Co. (Footwear), Controlled by U. S. Rubber Co. (See New York City)
Bourn Rubber Co. (Insulated Wires, Footwear, etc.)
Davol Rubber Co. (Druggists' Sundries)
Dunton, M. W. & Co. (Tapes & Insulation)
Meebanical Fabric Co. (Rubber Thread & Card Clothing)
WOONSOCKET—American Wringer Co. (See New York City)
Woonsocket Rubber Co. (Footwear), Controlled by U. S. Rubber Co. (See New York City)

WASHINGTON.

SPOKANE—Interstate Rubber Co. (Inc.) (Molded Goods, Valves, Gaskets, etc.)

WISCONSIN.

GUDAHY—Federal Rubber Co. (Tires, Mechanical Goods, etc.)
LA CROSSE—La Crosse Rubber Mills Co. (Mackintoshes, Rubber Clothing, Footwear & Molded Goods)
MILWAUKEE—Osins Chemical Co. (Dental Vulcanite & Dental Specialties)
RACINE—Chicago Rubber Clothing Co. (Mackintoshes, Rubber Clothing, etc.)

Rubber Mfrs. (Mechanical)

(See Index of Contents for all Other Rubber Specialties)

Acme Rubber Mfg. Co., Trenton, N. J.
Boonton Rubber Co., Boonton, N. J.
BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
Buckley, Jno. W. Mfg. Co., 69 Warren, New York
Continental Rubber Works, Erie, Pa.
Davidson Rubber Co. (Hard & Soft, Drug, Dental, Surgical & Hospital), Boston, Mass.
Dayton Rubber Mfg. Co., Dayton, O.
Elkhart Rubber Works, Elkhart, Ind.
Miller Rubber Mfg. Co., Akron, O.
Canfield, H. O. Co., Bridgeport, Conn.
Cincinnati, Rubber Mfg. Co., Cincinnati, O.

Clinton Mfg. Co., 83 Grand av, Brooklyn, N. Y.
Consolidated Rubber Co., Trenton, N. J.
Consumers' Rubber Co., 1407 W 6th, N W, Cleveland, O.
Continental Rubber Wks., Erie, Pa.
Crescent Belting & Packing Co., Trenton, N. J.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
Empire Rubber Mfg. Co., Trenton, N. J., & 60 Reade, New York
Eureka Fire Hose Co., 13 Barclay, New York. Works, Jersey City, N. J.
Federal Rubber Co., Cudahy, Wis.
Goodrich, B. F. Co., Akron, O.
Goodyear Tire & Rubber Co., Akron, O.
GRISCOM-SPENCER CO., 90 West New York and ft. Washington av., Phila., Pa. (See adv. index & branch offices, end of book)

Gutta Percha Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Co., Trenton, N. J.
Hartford Rubber Works, Hartford, Conn.
Home Rubber Co., Trenton, N. J.
Manhattan Rubber Mfg. Co., 18 Vesey, New York

Mechanical Rubber Co., 73 Reade, New York.
Milford Rubber Works, Milford, Ill.
Mineralized Rubber Co., 18 Cliff, New York
Morgan & Wright (Inc.), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
New Jersey Car Spring & Rubber Co., Jersey City, N. J.
New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
New York Rubber Co., 84 Reade, New York
Peerless Rubber Mfg. Co., 16 Warren, New York

PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

PHOENIX SPECIALTY MFG. CO., 40 Duane, New York. (See adv. index, end of book)

Quaker City Rubber Co. (Chas. A. Daniel, Prop.), 629 Market, Phila., Pa.
Revere Rubber Co., 77 Bedford, Boston, Mass.
Rayner Products Co., Barberton, O.
SAYEN, OSGOOD, Arcade bldg, Phila., Pa. (See adv. index, end of book)
Stokes, Jos. Rubber Co., Trenton, N. J.
Trenton Rubber Mfg. Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.
Waterbury Rubber Mfg. Co., 75 Warren, New York
Wilkie Rubber Mfg. Co. (Hard & Soft), Saugus, Mass.

Rubber (Mineral)

Standard Asphalt & Rubber Co. ("Sarco"), 205 La Salle, Chicago, Ill.

Rubber Molded Goods

(See Rubber Goods, Moulded)

Rubber Packers & Rings

Goodrich, B. F. Co., Akron, O.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Rubber Packing

(See Packing Manufacturers)

Rubber (Reclaimed)

Aladdin Rubber Co., Akron, O.
Alkali Rubber Co., Akron, O.
Appleton, F. H. & Co., 185 Summers, Boston, Mass.
Bloomingdale Soft Rubber Co., Bloomingdale, N. J.
Boonton Rubber Co. (For Hard Rubber Compounds), Boonton, N. J.
Clapp, E. H. Rubber Co., Boston, Mass.
Continental Rubber Works, Erie, Pa.
Danversport Rubber Co., Boston, Mass.
Derby Rubber Co., Derby, Conn.
Eastern Reclaimed Rubber Co., 63 Park Row, New York
Lockport Rubber Works, Lockport, N. Y.
Manufactured Rubber Co., Penna. Bldg., Phila., Pa., Works, Metuchen, N. J.
New Jersey Rubber Co., Lambertville, N. J.
Pequanoc Rubber Co., Butler, N. J.
Philadelphia Rubber Works, Phila., Pa.
Riekaby Rubber Mfg. Co., South Framingham, Mass.
Robinson & Stiles, 140 Pearl, New York
Stockton Rubber Co., Stockton, N. J.
Stokes, Joseph Rubber Co., Trenton, N. J.
S. & L. Rubber Co., Chester, Pa.
Trenton Rubber Reclaiming Works, Trenton, N. J.
U. S. Rubber Reclaiming Works, 127 Duane, New York
Westmoreland Rubber Mfg. Co., Grapeville, Pa.

Rubber Rods & Sheets

Bishop Gutta Percha Co. (Gutta Percha Sheets) 422 E. 25th, New York
Continental Rubber Works (Sheets), Erie, Pa.
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
Morgan & Wright (Inc.) (Rods & Tubing), Detroit, Mich.
Vulcanized Rubber Co., 488 B'way, New York.
Whitehead Bros. Rubber Co. (Pure Sheet Only) Trenton, N. J.
Wilkie Rubber Mfg. Co., Saugus, Mass.

Rubber Saw Bands

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
Continental Rubber Works, Erie, Pa.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Pennsylvania Rubber Company

JEANNETTE, PA.

MANUFACTURERS OF

RUBBER GOODS

PNEUMATIC AND SOLID TIRES

HOSE, PACKING, MATTING, GASKETS

VALVES AND PLUMBERS' GOODS

FRUIT JAR RINGS

INTERLOCKING TILING

BRANCHES:

NEW YORK, 1741 Broadway
SAN FRANCISCO, 512 Mission St.

CHICAGO, 1241 Michigan Ave.

BOSTON, 167 Oliver St.

Agencies throughout the country.

Rubber Suits (Pneumatic Pressure)

Goodrich, B. F. Co. (For Oil & Gas Wells), Akron, O.

Rubber Window Cleaners

(See Cleaners, Window)

Rubber & Enamel Carriage Cloth

Consolidated Rubber Co., Trenton, N. J.
Empire Rubber Mfg. Co. (Rubber), Trenton, N. J., & 60 Reade, New York
National India Rubber Co., Bristol, R. I.

Rubbers (Erasive)

(See also Erasers, Various Kinds)

Davidson Rubber Co., Boston, Mass.
Goodrich, B. F. Co., Akron, O.
Mattson Rubber Co., Lodi, N. J.

Rubbers (Fruit Jar)

Acme Rubber Mfg. Co., Trenton, N. J.
Boston Woven Hose & Rubber Co., Cambridgeport, Mass.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Cleveland Rubber Wks., Cleveland, O.
Consolidated Rubber Co., Trenton, N. J.
Continental Rubber Works, Erie, Pa.
Empire Rubber Mfg. Co. (Rubber), Trenton, N. J., & 60 Reade, New York
Goodrich, B. F. Co., Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
Hamilton Rubber Mfg. Co., Trenton, N. J.
Manhattan Rubber Co., 18 Vesey, New York
New York Belting & Packing Co., 91 Chambers, New York
PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)
Rubber Products Co., Barborton, O.
SAYEN, OSGOOD, Arcade Bldg, Phila., Pa. (See adv. index, end of book)

Rubbing Beds (Stone, Slate, Etc.)

Birmingham Iron Foundry (For Marble, Stone, Slate, Brick & Terra Cotta), Derby, Conn.
FLORY, S. MFG. CO. (With Adjustable Step Box), Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)
Glover Machine Works (For Marble), Marietta, Ga.
Hinds, Thos., Malone, N. Y.
Lehigh Foundry Co., Fullerton, Pa.
Lincoln Iron Works, Rutland, Vt.
Lord, Bowler & Co., Cleveland, O.
New Albany Mfg. Co., New Albany, Ind.
Patch, F. R. Mfg. Co., Rutland, Vt.

Rulers (Advertising, Wood)

(See Advertising Novelties)

Rulers (School & Desk)

Silver Springs Mfg. Co., Silver Springs, N. Y.
Westcott-Jewell Co., Seneca Falls, N. Y.

Rules

(Under this Heading See Sub-classifications)

Athol Machine Co. ("Standard" Steel), Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Chapin-Stephens Co. (Box Wood, Ivory, Combination, Slope Level, Try Square & Miscellaneous, etc.), Pine Meadow, Conn.
Dietzgen, Eugene Co. (For Draughting Room), 181 Monroe, Chicago, Ill.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Eddy, Geo. M. & Co. (For Surveyors, etc.), 345 Clason av., Brooklyn, N. Y.
Forsyth Mfg. Co. (Metal), Buffalo, N. Y.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.) ("Axion"), 157 Chambers, New York. (See adv. index, end of book)
Keuffel & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.
Massachusetts Tool Co. (Tempered Steel), Greenfield, Mass.
Russell & Erwin Mfg. Co., New Britain, Conn.

Sawyer Tool Mfg. Co., Fitchburg, Mass.
Smith, S. O. (Counting Houses, etc.), Newark, N. J.

SOLTMANN, E. G.
(Architects' & Engineers' Slide; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)
Stanley Rule & Level Co., New Britain, Conn.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)
Union Nut & Bolt Co. (Boxwood), 107 Chambers, New York
Upson Nut Co. (Boxwood), Unionville, Conn., & Cleveland, O.

Rules (Caliper)

(See also Callipers)

Brown & Sharpe Mfg. Co., Providence, R. I.
Chapin-Stephens Co. (Boxwood), Pine Meadow, Conn.
Humphrey Machine Co., Keene, N. H.

SOLTMANN, E. G.
(also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)
Stanley Rule & Level Co. (Boxwood, Ivory, etc.), New Britain, Conn.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rules (Extension)

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Keuffel & Esser Co., 127 Fulton, New York
Stanley Rule & Level Co., New Britain, Conn.

Rules (Key Seat)

Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Rules (Lumberman's)

Chapin-Stephens Co. (Log Sticks, etc.), Pine Meadow, Conn.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Lufkin Rule Co., Saginaw, Mich.
Smith, S. O. (Wood), Newark, N. J.
Stanley Rule & Level Co., New Britain, Conn.
Upson Nut Co., Unionville, Conn., & Cleveland, O.

Rules (Machine, Divided Steel)

Lufkin Rule Co., Saginaw, Mich.

Rules (Machinists')

Athol Machine Co., Athol, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Coffin & Leighton, Syracuse, N. Y.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Lufkin Rule Co., Saginaw, Mich. (See adv. index, end of book)
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)
Wyke, John & Co. (Steel), 898 Saratoga, E. B., Boston, Mass.

*Rules (Pocket)

STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Rules (Scale & Shrinkage)

Brown & Sharpe Mfg. Co., Providence, R. I.
Keuffel & Esser Co., 127 Fulton, New York
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)
SOLTMANN, E. G.
(for Metal & Terra Cotta; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Rules (Steel)

Billings & Spencer Co., Hartford, Conn.
Breil, Robt. (Transparent, for Blacksmiths, etc.), 117 Locust, St. Louis, Mo.
Brown & Sharpe Mfg. Co., Providence, R. I.
Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
Cleveland Fillet Co. (Steel Shrink Rules), Cleveland, O.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Forsyth Mfg. Co. ("F.-M.-Co."), "No. 701-2-3 & 4", Buffalo, N. Y.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
Keuffel & Esser Co., 127 Fulton, New York
Lufkin Rule Co., Saginaw, Mich.
Massachusetts Tool Co., Greenfield, Mass.
Nichols Mfg. Co. (Framing), Ottumwa, Ia.
Peck, Stow & Wilcox Co., Southington, Conn.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Smith, Ernst G. Co. ("Columbia," 6 inch), Columbia, Pa.
STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Rules (Steel, Metric)

Brown & Sharpe Mfg. Co., Providence, R. I.
Lufkin Rule Co., Saginaw, Mich.
Sawyer Tool Mfg. Co., Fitchburg, Mass.
Stanley Rule & Level Co., New Britain, Conn.

Rules (Tinner's')

Lufkin Rule Co., Saginaw, Mich.
Peck, Stow & Wilcox Co., Southington, Conn.
Russell & Erwin Mfg. Co., New Britain, Conn.

Rungs (Ladder)

Oliver Iron & Steel Co. (Steel), Pittsburg, Pa.

Rust Preventives

Houghton, E. F. & Co. ("Cosmic" & White Slushing Oil), 240 W Somerset, Phila., Pa.
Melville, F. L. ("Melville's Standard"), 192 Front, New York
PECORA PAINT CO. (S. Bowen's Son, Successor) ("Pecora"), 4th st & Reading R. R., Phila., Pa. (See adv. index, end of book)
Sonneborn, L. Sons (Inc.) ("Amalia"), 262 Pearl, New York

Rustic Woodwork

Pierce, W. E. & Co., Milford, N. H.
Siebrecht & Son, 425 5th av, New York
Van Gorden, D. P., Orange, N. J.

Rustic Work (Terra Cotta)

Cincinnati Sewer Pipe Co., c Elm & Water, Cincinnati, O.
Streator Clay Mfg. Co., Streator, Ill.

Saccharometers

Phila. Thermometer Co., Arch & 9th, Philadelphia, Pa.
Schaeffer & Budenberg Mfg. Co. ("Kaiser's" Silver), 963 Kent av., Brooklyn, N. Y.

Sacks (Ore)

Bemis Bros. Bag Co., St. Louis, Mo.
Hoegec. Wm. H., Co., Inc., 140 S. Main, Los Angeles, Cal.

Sacks (Paper, Cement & Flour)

Phillips, Thos. Co., Akron, O.

Sad Irons

American Electrical Heater Co. (Electric), 123 State, Detroit, Mich.
American Foundry & Mfg. Co. ("Potts" & Common), St. Louis, Mo.
American Skeln & Foundry Co. (Also Tailors' Irons), Racine, Wis.
Barr, W. J. Electric Mfg. Co. ("Enreka" Electric), Cleveland, O.
Blacklock Foundry Co., So. Pittsburg, Tenn.
Bless & Drake ("Potts" Cold-Handle, Self-Heating Charcoal, etc.), Newark, N. J.
Chattanooga Implement & Mfg. Co. ("Mrs. Potts" & Common), Chattanooga, Tenn.

Colebrookdale Iron Co., Pottstown, Pa.
 Dover Mfg. Co. ("Par Excellence," Asbestos), Canal Dover, O.
 Durant, W. N. Co. ("Watson" Electric), Milwaukee, Wis.
 Electric Heating & Mfg. Co. (Electric), Los Angeles, Cal.
 Electric Sad Iron Co. (Electric), Detroit, Mich.
 Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Phila., Pa.
 Eureka Alcohol Utilities Co. ("Eureka" Alcohol), Real Estate Trust bldg., Phila., Pa.
 Genessee Valley Mfg. Co., Mount Morris, N.Y.
 Germania Electric Co. ("Universal" Electric), 154 Nassau, New York
 Griswold Mfg. Co., Erie, Pa.
 Guaranty Elec. Heater Co. (Electric), Cleveland, O.
 Harwood Elec. Heating Co. (Electric), Hutchinson, Kan.
 Hawler Mfg. Co. ("Peerless" Denatured Alcohol Revolving Self-Heating), Montgomery, Ala.
 Illinois Electric Co. ("American" Steel Clad Electric), 239 Madison, Chicago, Ill.
 Illinois Iron & Bolt Co. (Also Tailors' Irons), Carpentersville, Ill.
 Mudd Mfg. Co., Hanson Pk, Chicago, Ill.
 National Electric Heating Co. (Electric, Domestic, Laundry & Tailors'), Cambridge, Mass.
 Ober Mfg. Co., Chagrin Falls, O.
 Ohio Electric Works (Electric), 6304 Ellen av., N. W., Cleveland, O.
 Pacific Electric Heating Co. ("Pacific," "World's Best," "Hot Point" Electric), Ontario, Cal.
 Patent Sad Iron Mfg. Co., Reading, Pa.
 Pease Mfg. Co., Cincinnati, O.
 Pullman Mfg. Co. ("Sensible"), Rochester, N. Y.
 Schlueter, M. L. (Denatured Alcohol, Self-Heating), 36 Canal, Chicago, Ill.
 Simplex Electric Heating Co. (Electric), Cambridge, Mass.
 Southern Skein & Foundry Co. (Also Tailors' Irons), Chattanooga, Tenn.
 Union Mfg. Co., Boyertown, Pa.
 United Steel Co., Canton, O.
WESTINGHOUSE ELECTRIC & MFG. bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
 Williams, A. C. Co., Ravenna, O.
 Wrightsville Hardware Co. (Cold Handles, "Mrs. Bent's Improved Ladies' Pride"), Wrightsville, Pa.

Sad Irons (Electric)

(See Firms in Sad Irons, with the Word Electric Following Their Name)

Saddles (Bicycle)

Graton & Knight Mfg. Co. (Leather), Worcester, Mass.

Saddles (Car Roof, for Running Board)

Dayton Malleable Iron Co., (Malleable Iron), Dayton, O.

Saddles (Pipe)

AMERICAN SPIRAL PIPE WORKS. W 14th & 48th av., Chicago, Ill. (See adv. index & branch offices, end of book)
 Dayton Pipe Coupling Co., Dayton, O.
 Kelly & Jones Co., 135 Water, Pittsburgh, Pa.
 National Tube Co. (Double Wrought Strap), Pittsburgh, Pa.

Saddles (Roof)

Cold Water Specialty Mfg. Co., Coldwater, Mich.

Safe Ends (Boiler Tube)

National Tube Co., Pittsburgh, Pa.

Safes (Express Car)

HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av., Cincinnati, O.
 Herring-Hall-Marvin Safe Co., 400 B'way, New York. Works, Hamilton, O.

Safes (Fire & Burglar Proof)

(For All Other Safe Manufacturers See Bank Vaults)

Alpine Safe & Lock Co., Cincinnati, Ohio
 Atlas Mfg. Co., Fostoria, O.
 Barnes, R. L. Safe & Lock Co., Richmond, Va.
 Barnes Safe & Lock Co., Pittsburgh, Pa.
 Baum, J. Safe & Lock Co., Cincinnati, O.
 Cary Safe Co., Buffalo, N. Y.
 Diebold Safe & Lock Co., Canton, O., & 30 Reade, New York
 Ely-Norris Safe Co., Perth Amboy, N. J.
HALL'S SAFE CO., Main Office & Factory, 3253 Spring Grove av., Cincinnati, O.
 Herring-Hall-Marvin Safe Co., 400 B'way, New York; Works: Hamilton, O.
 Macneale & Urban Co., Hamilton, Ohio
 Mauganese Steel Safe Co., 371 B'way, New York
 Meilink Mfg. Co. (Home Deposit Vaults), Toledo, O.
 Miller Safe Co., Baltimore, Md.
 Morris-Ireland Safe Co., Boston, Mass.
 Mosler Safe Co. Main Office & Works, Hamilton, O.
 Naehar Safe & Lock Co., Cincinnati, Ohio
 National Safe & Lock Co., Cleveland, O.
 Norris Safe & Lock Co., Seattle, Wash.
 Remington & Sherman Co., 359 B'way, New York
 Stiffel & Freeman, 723 Chestnut, Phila., Pa.
 Victor Safe & Lock Co., Cincinnati, O.
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)
 Waltz Safe & Lock Co., San Francisco, Cal.
 York Safe & Lock Co., York, Pa.

*Safes (House)

HALL'S SAFE CO., Main Office and Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index, end of book)

Safes (Match)

Buffalo Mfg. Co., Buffalo, N. Y.
 Carrington & Co. (Pocket), Newark, N. J.
 Dayton Co. ("Lusk"), 438 Plymouth av., Buffalo, N. Y.
 Forsyth Mfg. Co. ("No. 804"), Buffalo, N. Y.

Safes (Receiving)

(For Street Railway Conductors' Trip Returns)

HALL'S SAFE CO., Main Office and Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index, end of book)
 Littleford Bros., 453 E Pearl, Cincinnati, O.

Safety Deposit Boxes

HALL'S SAFE CO., Main Office and Factory, 3253 Spring Grove av, Cincinnati, O. (See adv. index, end of book)
 Herring-Hall-Marvin Safe Co., 400 B'way, New York; Works: Hamilton, O.
 Mosler Safe Co., Canton, O.
 National Safe & Lock Co., Cleveland, O.
 Thomas-Peter Co., Canton, Ohio.
 York Safe and Lock Co., York, Pa.

Safety Water Columns

(See Water Columns, Safety)

Sails (Yacht)

Baker, H. H. & Co., 18 Terrace, Buffalo, N. Y.
CARPENTER, GEO. B. & CO., 202 S Water Chicago, Ill. (See adv. index, end of book)
 Chandler, F. & Son, Savannah, Ga.
 Cousens & Pratt, 410 Atlantic av, Boston.
 Folsom, F. W. & Co., 2 Planet, Providence, R. I.
 Goss, J. C. Co., 18 Woodward av, Detroit, Mich.
 Hemingway, S. & Son, 54 South, New York
 Herreshoff Mfg. Co., Bristol, R. I.
 Jones & Robinson, 83 Front, New York
 Morton, Rob't E., 26 South, New York
 Pease, L. F. & Co., 7 Crawford, Providence, R. I.
 Upson-Walton Co., 155 River, Cleveland, O.
 McClellan, Chas. P., Fall River, Miss.
 Wilson & Griffin, 53 South, New York
 Wilson & Silsby, Rowe's Wharf, Boston, Mass.
 Wilson, R. M., Port Jefferson (L. I.), N. Y.

Salamanders

CARLIN'S, THOMAS SONS & CO., 1610 River av, North Side, Pittsburgh, Pa. (See adv. index, end of book)
 Durlach, I. ("Mason's"), 54 Vesey, New York
 Eagle Iron Works, 850 DeKalb av, Brooklyn, N. Y.

Houhorst, Joseph, Co., Cincinnati, O.
 Keller, A. E. (Masons'), 136 Beekman, New York
 Littleford Bros., 453 E Pearl, Cincinnati, O.
 Union Elevator & Machine Co., 144 Ontario, New York
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Salamandorite

Johns, H. W.-Manville Co. (A New Fireproof Paneling for Interior Decorative Work), 100 William, New York

Sal-Ammoniacs

Allen, L. B. Co. (Battery & Commercial Brands), 1335 Columbia av, Chicago, Ill.
 Barrett Mfg. Co., Land Title bldg, Phila., Pa.
 Cochrane Chemical Co., Boston, Mass.
 Grasselli Chemical Co., Cleveland, O., & 63 Wall, New York
 Roessler & Hasslacher Chemical Co., 100 William, New York
 Tennant Sons & Co. (Importers), 76 William, New York
 Thomsen Chemical Co., Baltimore, Md.
 Wiarda, John C. & Co., Brooklyn, N. Y.

Sal-Soda

American Chemical Co., Cincinnati, O.
 Church & Dwight Co. (Also Concentrated Sal-Soda), 63 Wall, New York
 Grasselli Chemical Co., The Arcade, Cleveland, O., & 63 Wall, New York
 Penna. Salt Mfg. Co., 115 Chestnut, Phila., Pa.
 Wiarda, John C. & Co., Brooklyn, N. Y.

Salt Cake

Contact Process Co., Buffalo, N. Y.
 Grassell Chemical Co. (For Glass Makers), Cleveland, O., & 63 Wall, New York
 Penna. Salt Mfg. Co. (For Glass Makers), 115 Chestnut, Phila., Pa.

Salt Mfrs.

Barton Salt Co., Hutchinson, Kan.
 Beck, J. A. & Co., Allegheny, Pa.
 Bevis Rock Salt Co., 421 Olive, St. Louis, Mo.
 Bliss & Van Anken, Saginaw, Mich.
 Brand & Hardin Milling Co., Saginaw, Mich.
 Buckeye Salt Co., Pomeroy, O.
 Butters Salt & Lumber Co., Buttersville, Mich.
 Cady & Johnson, Syracuse, N. Y.
 Carey Salt Co., Hutchinson, Kan.
 Cleveland Salt Co., 2295 Ashland rd. Cleveland, O.
 Colonial Salt Co., Akron, O.
 Colorado Salt Co., Colorado, Tex.
 Continental Salt & Chemical Co., 116 Battery, San Francisco, Cal.
 Crystal Flake Salt Co., Marine City, Mich.
 Desert Crystal Salt Co., White Plains, Nev.
 Detroit Salt Co., Penobscot bldg, Detroit, Mich.
 Diamond Crystal Salt Co., St. Clair, Mich.
 Dickinson, J. O. & Co., Malden, W. Va.
 Eastern Salt Co., 186 State, Boston, Mass.
 Ellsworth Salt Co., Ellsworth, Kan.
 Empire Coarse Salt Co., Syracuse, N. Y.
 Grand Saline Salt Co., Grand Saline, Tex.
 Hardin, D. Co., Saginaw, Mich.
 Hartford City Salt Co., Hartford, W. Va.
 Hutchinson Kansas Salt Co., Hutchinson, Kan.
 Independent Salt Co., 207 Duane, New York
 Inland Crystal Salt Co., Salt Lake City, Utah
 International Salt Co. (of Ill.), R'y Exch bldg, Chicago, Ill.
 International Salt Co. (of New Jersey), 2 Reector, New York
 International Salt Co. (of New York), Scrant-iroquois Salt Co., Buffalo, N. Y., ton, Pa.
 Kingman Salt Mining Co., Kingman, Kan.
 Ludington Salt Co. (of Milwaukee), Milwaukee, Wisc.
 Mereshon, Schuette, Parker & Co., Saginaw, Mich.
 Michigan Salt Ass'n, Bay City, Mich., & Saginaw, Mich.
 Myles Salt Co. (Ltd.), 100 Common, New Orleans, La., & Weeks, La.
 North American Chemical Co., Bay City, Mich.

Ohio Salt Co., Wadsworth, O., & 17 Hudson, New York
 Pennsylvania Salt Mfg. Co., Natrona, Pa., & 115 Chestnut, Phila., Pa.
 Port Huron Salt Co., Port Huron, Mich.
 Rock Glen Salt Co., Warsaw, N. Y.
 Salina Coarse & Fine Salt Co., Syracuse, N. Y.
 Salina Solar Coarse Salt Co., Syracuse, N. Y.
 Snow Flake Salt Co., 113 Fulton, New York
 Stagci Salt Co., Pomeroy, O.
 Standard Salt Co., Los Angeles, Cal.
 Standard Salt & Cement Co., Duluth, Minn.
 Stearns, Justus, Ludington, Mich.
 Stearns Salt & Lumber Co., Ludington, Mich.
 Sterling Salt Co., 23 Beaver, New York
 Union Ice & Salt Co., Hutchinson, Kan.
 Union Salt Co., Cleveland, O.
 Wadsworth Salt Co., Wadsworth, O.
 Watkins Salt Co., Watkins, N. Y.
 Western Rock Salt Co., 421 Olive, St. Louis, Mo.
 Western Salt Co., San Diego, Cal.
 White, A. C., Saginaw, Mich.

Salt Well Machinery

(See Machinery, Salt Well)

Saltpetre

Battelle & Renwick (Refined), 163 Front, New York
 Harshaw, Fuller & Goodwin Co., Cleveland, O.

Salts (Chemical)

Baker & Adamson Chemical Co. ("C. P."), Easton, Pa.
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Merrimac Chemical Co. ("Glauber's"), Boston, Mass.

Salts (Copper)

Hanson & Van Winkle Co., Newark, N. J.

Salts (Nickel)

Hanson & Van Winkle Co., Newark, N. J.
 Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Wiarda, John C. & Co., Brooklyn, N. Y.

*Salts (Platinum)

AMERICAN PLATINUM WKS., Chest-nut st & N. J. R. R. av, Newark, N. J.
 (See adv. index, end of book)

Samplers (Grain)

Galdwell, H. W. & Son Co., 17th & Western av, Chicago, Ill.

Samplers (Ore)

Braun, F. W., Los Angeles, Cal.
 Denver Engineering Works Co., Denver, Col.
 Traylor Engineering Co., Allentown, Pa.

*"Sanaloid" Interior White

SANALOID, 930 N. 3rd, Phila., Pa.

*Sand Blast Equipment

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)

Sand Blast Machines

(See Machines, Sand Blast)

Sand Boxes

(See Boxes, Sand)

*Sand Boxes (Golf Course)

BALTIMORE COOPERAGE CO., THE, cor. Hanover & Creek, Baltimore, Md.
 (See adv. index, end of book)

*Sand Excavating & Screening Plants (Portable)

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

Sand (Glass Makers')

AMERICAN CONCRETE CO., 80 Wil-lam, New York. (See adv. index, end of book)

Berkeley Springs Sand Co., Continental Trust bldg, Baltimore, Md.
 Bidwell, R. O., South Vineland, N. J.
 Brennan, J. T., Robinson, Md.
 Crystal Sand Co., Bridgeton, N. J.
 Derry Glass Sand Co., Latrobe, Pa.
 Glass Sand Co., Emlenton, Pa.
 Holland Stone & Glass Sand Co., Holland, O.
 Kentucky Silica Co., Louisville, Ky.
 Pennsylvania Glass Sand Co., 341 4th av, Pitts-
 Reynolds, E. J. & Co., Utica, Ill. burg, Pa.
 Selling Co. (Inc.), 225 5th av., New York
 Severn River Glass Sand Co., Phila. Bourse, Phila., Pa.
 Tavern Rock Sand Co., St. Louis, Mo. Mills, Klondike, Mo.
 Toledo Stone & Glass Sand Co., Toledo, O.
 Vineland Glass Sand Co., Bridgeton, N. J.
 Winfield Sand Co., 421 Wood, Pittsburgh, Pa.
 Wister, L. & R. & Co., Bullitt bldg, Phila., Pa.

Sand Handling Plants

Heyl & Patterson, Pittsburgh, Pa.
 Interstate Engineering Co., Bedford, O.

Sand Mixer & Screen (Combined)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Standard Sand & Machine Co., 1509 St. Clair, Cleveland, O.

Sand Molding Machines

(See Molding Machines, Foundry)

Sand (Molding or Foundry)

(See also Foundry Facings & Supplies)

American Sand Co., Columbus, O.
 Albany & North River Molding Sand Co., Albany, N. Y.
 Ayres Mineral Co., Zanesville, O.
 Ballou's White Sand Co. (White), Wellington, Ill.
 Beson Bros. Sand Co., Ottawa, Ill.
 Bidwell, R. O., South Vineland, N. J.
 Bloomfield Clay Co., Metuchen, N. J.
 Brown, I. K., Zanesville, O.
 Buckeye Sand Co., Pittsburgh, Pa.
 Debolt Bros. Sand Co., Ottawa, Ill.
 Evers, Jno., Waterford, N. Y.
 Garden City Sand Co., Chamber of Commerce bldg., Chicago, Ill.

Hafer Sand Co., Newport, Ky.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Illinois Valley Sand Co. (Cleaned & Dried), Ottawa, Ill.

Interstate Sand Co., Cleveland, Ohio.
 Kentucky Silica Co., Louisville, Ky.
 Lake Shore Sand Co., 138 Wash'n, Chicago, Ill.
 McKinney Sand Co., Zanesville, O.
 Mont Alto Sand Co., Waynesboro, Pa.
 Newport Sand Bank Co., Newport, Ky.
 New York Sand Facing Co., 106 Grand av, Brooklyn, N. Y.

Obermeyer, S. Co., 647 Evans, Cincinnati, O.
 Ohio Sand Co., Conneaut, O.
OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Paxson, J. W. Co., 1021 N Delaware av, Pettinos Bros., Bethlehem, Pa. Phila., Pa.
 Rapp, A. P. Co., Phillipsburg, N. J.

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd, N W, Cleveland, O. (See adv. index, end of book)

Standard Sand & Machine Co., Cleveland, O.
 Tuscarawas Sand Co., New Cumberland, O.
 Valentine, H. D. & Bro. (Core Sand), Woodbridge, N. J.

Waldo Bros., 102 Milk, Boston, Mass.

Webster Foundry Sand Co., 961 N Del. av, Phila., Pa.

Whitehead Bros. Co., 537 W. 27th, New York.

Wister, L. & R. & Co., Bullitt bldg, Phila., Pa.

Sand Paper Mfrs.

American Glue Co. ("Union," Flint, etc.), 121 Beverly av, Boston, Mass.
 Armour & Co., 205 La Salle, Chicago, Ill.
 Baeder, Adamson & Co., 210 Chestnut, Phila., Pa.
 Barton, H. H. & Son Co. (Inc.), 222 Market, Philadelphia, Pa.

Behr, Herman & Co., 75 Beckman, New York.
 Boston Flint Paper Co., Hallowell, Me.
 Coryell Flint Paper Co., Williamsport, Pa.
 Union Sand Paper Co., Walpole, Mass.
 U. S. Sandpaper Co., Williamsport, Pa.
 Waddell, R. J. & Co., 52 Beekman, New York
 Wausau Sandpaper Co., Wausau, Wis.

Sand (Pure White)

Columbia Brick & Plaster Co. (For Plaster, Scouring Soap & for Filler, etc.), North East, Md.

Sand Rammers

(See Rammers, Foundry; also Rammers, Pneumatic)

*Sand (Sand Blast)

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd, Cleveland, O. (See adv. index, end of book)

Sand Sifters

Battle Creek Interior Finish Co. (Ltd.), ("Battle Creek"), Battle Creek, Mich.
 Brass Founders Supply Co. (For Brass Founders), Newark, N. J.
 Chicago Pneumatic Tool Co. ("Chicago"), Fisher bldg, Chicago, Ill.
 Deane Steam Pump Co. (Pneumatic), Holyoke, Mass.
 Dodge Mfg. Co., Mishawaka, Ind.
 Gould & Eberhardt (Automatic for Foundries), Newark, N. J.
 Hanna Engineering Works, 825 Elston av, Chicago, Ill.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Horton Mfg. Co., Painesville, O.
 Killing, E. Molding Machine Works ("Killing" Rollover Straight Drop), Davenport, Ia.
MEYERS, FRED. J. MFG. CO., Ham-ilton, O. (See adv. index, end of book)
NORTHERN ENGINEERING WKS., Detroit, Mich. (See adv. index, end of book)

Obermeyer, S. Co., 647 Evans, Cincinnati, O.
 Paxson, J. W., Co., 1021 No. Delaware av, Phila., Pa.
 Standard Sand & Machine Co. ("Standard" Adjustable Portable), Cleveland, O.
 Turner Machine Co. (Portable Motor Driven), 2049 N. 2d, Phila., Pa.
 United States Chaplet & Supply Co., 140 Cedar, New York
WHITING FOUNDRY EQUIPMENT Co. (Rotary, etc.), Harvey, Ill. (See adv. index & branch offices, end of book)

Sand (Silica)

Ballou's White Sand Co. (Clean White), Millington, Ill.
 Bean, Francis M. (Silica Rock Fire Sand), Valley Forge, Pa.

Central Silica Co., Zanesville, O.
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)

Everhard Co., Massillon, Ohio.
 Garden City Sand Co. (Also White), Chamber of Commerce bldg., Chicago, Ill.

Haedrich, E. M., 311 Walnut, Phila., Pa.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Kentucky Silica Co., Louisville, Ky.

Ligonier Silica Brick Co., Oakmont, Pa.

National Miniug & Milling Co., Continental Trust bldg Baltimore, Md.

Ottawa Silica Co. (Washed White Flint Sand), Ottawa, Ill.

Penn, Wm., Silica Works, William Penn P. O., Phila., Pa.

Pennsylvania Glass Sand Co. (White Rock), 341 4th av, Pittsburgh, Pa.

Pettinos Bros. ("Millville"), Bethlehem, Pa.

Red Wing Filter Sand Co., Red Wing, Minn.

Temple Sand Co., Reading, Pa.

U. S. Silica Co. (Washed White Flint Sand), 125 Monroe, Chicago, Ill., & Ottawa, Ill.

Warner, Chas. Co., Wilmington, Del., & Land Title bldg., Phila., Pa.

Winfield Sand Co., 421 Wood, Pittsburgh, Pa.

Wister, L. & R. & Co., Bullitt bldg, Phila., Pa.

Sand Washers

Power & Mining Machinery Co., Cudahy, Wis.
RANSOME CONCRETE MACHINERY CO., Dunellen, N. J. (See adv. index & branch offices, end of book)

Sand & Gravel Dealers

Acme Sand Co., ft of Mill, Baltimore, Md.
AMERICAN CEMENT CO., (Concrete
 Fire, Roofers', Glassmakers' Sand, etc.),
 80 William, New York. (See adv. index,
 end of book)
 American Sand Co., Baltimore, Md.
 American Sand & Gravel Co., Chamber of
 Commerce bldg., Chicago, Ill.
 Ballou's White Sand Co. (Clean White Sand),
 Millington, Ill.
 Banner Coal & Sand Co., 4560 Audubon av,
 St. Louis, Mo.
 Bean, Francis M. (Fire), Valley Forge, Pa.
 Bedford & Nugent, Evansville, Ind.
 Berkley Sand Co., Berkley Springs, W. Va.
 Bldwell, R. O. (Glass, Furnace, Kln Dried &
 Placing Sand & Gravel), South Vineland,
 N. J.
 Bos, John N., 473 Chrystal, Chicago, Ill.
 Brooks, Wm. Son Co., 615 W 49th, New York
 Brunswick Gravel Co., Brunswick, Tenn.
 Builders' Sand Co., Kansas City, Mo.
 Campbell, Bernard & Co., 268 W. 34th, New
 York
 Clarke, Wm. Wirt & Sons, 115 S Gay, Bati-
 more, Md.
 Chicago Gravel Co., 279 Dearborn, Chicago,
 Ill.
 Clarke, Wm. Wirt & Son, Monument and For-
 rest, Baltimore, Md.
 Connellsville White Sand Co., Connellsville, Pa.
 Colorado Sand & Gravel Co., Stock Ex. bldg.,
 St. Louis, Mo.
 Davis, John A., Boston, Mass.
 De Frain Sand Co., Otis Wharf, Phila., Pa.
 DeGrott, Jas. J. A., Jonespoint, N. Y.
 Dewler Sand Co. (Dealers), York, Pa.
 Dolese Bros. Co. (Kaw River Sand), 78 La
 Salle st., Chicago, Ill.
 Donnelly & Dovey Construction Co., Union Trust
 bldg., Cincinnati, O.
 Enterprise Sand & Gravel Co., Quincy, Ill.
 Everhard Co., Massillon, Ohio
 Flanagan Bros., Kansas City, Mo.
 Fox & Holloway, 252 Pearl, Buffalo, N. Y.
 Fox River Sand Co. (Sand), Welden, Ill.
 Garden City Sand Co., Chamber of Commerce
 bldg., Chicago, Ill.
 Godfrey, N. W., Port Eaton, N. Y.
 Goodwin Sand & Gravel Co., 71 B'way, New
 York
 Haedrich, E. M., 311 Walnut, Phila., Pa.
 Halliday, H. H. Sand & Gravel Co., Calro, Ill.
 Hatfield & Phillips, Alexandria, Pa.
 Homegardner Sand Co., Sandusky, O.
 Illinois Valley Sand Co. (Cleaned & Dried Sand),
 Indiana Gravel Co., Attica, Ind. Ottawa, Ill.
 Ingram, W. T., Jeffersonville, Ind.
 Iron City Sand Co., Westinghouse bldg., Pitts-
 burg, Pa.
 Keating, J. L. & Co., 236 E. 35th, New York
 Kelley Island Lime & Transport Co. (Washed
 Sand, etc.), Cleveland, Ohio
 King, J. B. & Co., 1 B'way, New York
 Lake County Gravel Co., 4 Sherman, Chicago,
 Lake Erie Sand Co., Sandusky, O.
 Lake Shore Sand Co., 138 Wash'n, Chicago, Ill.
 McKallip & Co., Pittsburg, Pa.
 Manasquan Granite Co., Asbury Park, N. J.
 Meramec Portland Cement & Material Co., St.
 Louis, Mo.
 Metropolitan Sand Co., Kansas City, Mo.

Millington White Sand Co., Millington, Ill., &
 Cleveland, O.
 Millwood White Sand Co. (White), Jackson, O.
 Mont Alto Sand Co., Waynesboro, Pa.
 Mound City Gravel, Material & Contracting
 Co., Holland bldg., St. Louis, Mo.
 Murray & Co. (Rockaway), 263 Av C, New
 York
 Murray & Reid Co., 17 State, New York
 N. Y. Sand & Gravel Co., 320 B'way, New
 York
 Nyack Trap Rock Co., Nyack, N. Y.
 O'Brien Bros. (Gravel), 54 South, New York
 Ohio River Sand Co., Louisville, Ky.
 Pangborn, Thos. W. Co. (Sand), 90 West, New
 York
 Peoples Bros. (Bar, White & Washed), 2508
 Callowhill, Philadelphia, Pa.
 Perryville Gravel Co., Perryville, Tenn.
 Perth Amboy Fire Brick Co. (Building Sand),
 42 Bway, New York, & Perth Amboy,
 N. J.
 Pfafflin, August Gravel Co. (Gravel Pit),
 Evansville, Ind.
 Phoenix Towing & Transportation Co., 17 State,
 Plerson, Dudley, Springfield, O. New York
 Pioneer Sand Co. (River Sand, etc.), St. Jo-
 seph, Mo.
 Purdy, A. F. & Co. (Glass Sand), Bernhards
 Quincy Sand Co., Quincy, Ill. Bay, N. Y.
 Reynolds, E. J. & Co. (Building Sand), Utica,
 Ill.
 Richards & Goddard (Filter Sand), Holyoke,
 Mass.
 Richardson Sand Co., 138 Wash'n, Chicago,
 Ill.
 Rockford Sand & Gravel Co., Rockford, Ill.
 Rock Island Sand Co., Rock Island, Ill.
 Rodgers Sand Co., 321 Water, Pittsburg, Pa.
 Roland Park Co., Roland Park, Md.
 Schmidt, C. August, 1539 La Fayette Park-
 way, Chicago, Ill.
 Sherman & Martin, Lowell, Mass.
 Shoemaker, Reed & Co., Greensburg, Pa.
 Smith, Clarence L. Co., 11th av & 30th, New
 York
 Squier, Ed. E. & Co., Bank of Commerce
 bldg., St. Louis, Mo.
 Standard Sand Co., Altoona, Pa.
 Standard Sand & Machine Co., 1509 St. Clair,
 Cleveland, O.
 Stewart-Peck Sand Co., Kansas City, Mo.
 Tecumseh Gravel Co., Tecumseh, Mich.
 Thomas, Hugh Co., 340 E 64th, New York
 Union Sand & Material Co., St. Louis, Mo.
 Vanderblit, Jacob, 7th St. Dock, Hoboken, N J
 Warner, Chas. Co., Wilmington, Del.
 Webster Foundry Sand Co., 961 N Delaware
 av, Phila., Pa.
 Whitehead Bros. Co., 537 W 27th, New York
 Winfield Sand Co., 421 Wood, Pittsburg, Pa.
 Wister, L. & R. & Co., Bullitt bldg, Phila.,
 Pa.
 Yowler, C. D., Connellsville, Pa.

Sand & Gravel Heaters & Dryers

(See also Dryers, Various Kinds)
 American Process Co. (Street Railway), 62
 William, New York.
CANTON BOILER & ENGINEERING
 Co., Canton, Ohio. (See adv. index, end
 of book)
CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)

Cummer, F. D. & Son Co., The Arcade, Clevel-
 land, O.
 Handlan-Buck Mfg. Co. ("Champion"), 212 N
 3d, St. Louis, Mo.
HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)
 Honhorst, Joseph, Co. (Gravel Dryers), Cin-
 cinnati, O.
 Horton Mfg. Co. (Sand Dryers), Palmsville, O.
 Iroquois Iron Works, Buffalo, N. Y.
 Littleford Bros., Cincinnati, O.
 Indiana Foundry Co., Ltd ("Sutton" Drler),
 Indiana, Pa.
 Martin, Henry, Brick Machine Mfg. Co. (Sand
 Dryers), Lancaster, Pa.
MACLEOD, WALTER & CO., 213 E
 Pearl, Cincinnati, O. (See adv. index,
 end of book)
 Parkhurst & Wilkinson Co. ("Clark" & "Per-
 fection"), 143 Kinzie, Chicago, Ill.
 Pioneer Iron Wks., 149 Pioneer, Brooklyn, N. Y.
 Pollock, Alex. Co., 203 West, New York
RUGGLES-COLES ENGINEERING CO.
 (Dryers), 39 Cortlandt, New York. (See adv.
 index, end of book)
 Schalkenbach & Budke (Gravel Heaters), Jer-
 sey City, N. J.
 Standard Sand & Machine Co., 5157 St. Clair,
 Cleveland, O.
 Stuebner, G. L., Long Island City, N. Y.
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New
 York. Works, Newburgh, N. Y.
 Universal Road Machinery Co., 120 Liberty,
 New York
 Wellington Machine Co., Wellington, O.
 Zelnicker, Walter A., Supply Co. ("Zelnicker"
 Handy), St. Louis, Mo.

Sanders (Track)

(See Locomotive Sanders)

Saponifier

Penna. Salt Mfg. Co., 115 Chestnut, Phila., Pa.

Sash Balance Mfrs.

Buettner Sash Lock Co., 1550 Pleasant, Cin-
 cinnati, O.
 Caldwell Mfg. Co., Rochester, N. Y.
 Coleman Hardware Co. ("The Shumard"), 168,
 Michigan av, Chicago, Ill.
 Edwards, O. M. Co. (Railroad Car, also Tin
 Barrel Spring), Syracuse, N. Y.
 Gardner Sash Balance Co., 164 Dearborn, Chl-
 cago, Ill.
 International Lock Co. ("The Lorix"), Prov-
 idence, R. I.
 National Lock Washer Co., 65 Johnson, Newark,
 Pullman Mfg. Co., Rochester, N. Y. N. J.
 Radel Sash Balance & Lock Co. ("Radel"
 Sash Balance & Lock), 738 State av, Cin-
 cinnati, O.
 Rochester Sash Lock Co., Rochester, N. Y.
 Scriber, O. P. & Co. ("I X L"), 208 Elm,
 Cincinnati, O.
 Stearns, E. C. & Co. ("Vanderbilt"), Syra-
 cuse, N. Y.

*Sash Bars (Steel)

BRAUN, J. G. (Plain & Ornamental), 322
 S Paulina, Chicago, Ill., & 537 W 35th,
 New York. (See adv. index, end of book)

IMPORTANT

When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible.

S. E. HENDRICKS CO.,
 74 LAFAYETTE STREET,
 NEW YORK, N. Y.

Sash Bolt & Support

Smith & Egge Mfg. Co. ("Kings"), Bridgeport, Conn.

Sash Bolts (Ventilating)

Gardner Sash Balance Co., 164 Dearborn, Chicago, Ill.

Sash Cord Mfrs.

American Mfg. Co. (Hemp), 63 Wall, New York.

Anniston Cordage Co. (Braided), Anniston, Ala.
Bailey, John T. & Co., c Water & Morris, Phila., Pa.

CARPENTER, GEORGE B. & CO.
("Anniston" Braided Cotton), 202 S Water
Chicago, Ill. (See adv. index, end of book)
Charlotte Cordage Co. (Braided), Charlotte, N. C.

Draper, W. H. & Son (Twisted Cotton), Troy, N. Y.
Estes Mills (Inc.), Fall River, Mass.

Faber, Thos. & Son, Weston, Mass.
Franklin Cotton Mill Co., Charles & Plum, Cincinnati, O.

Fricke, J. E. Co. ("Jefferson" Solid Braided), 247 Market, Phila., Pa.

Hoffman-Corr Mfg. Co., 107 Duane, New York

Hooven & Allison Co., Xenia, O.
Mallison Braided Cord Co., Athens, Ga.

Ossawan Mills Co., Norwich, Conn.
Paton, Wm. (Ltd.), North Grafton, Mass.

SAMSON CORDAGE WORKS (Braided, etc.), 88 Broad, Boston, Mass. (See adv. index, end of book)

Schlichter Jnte Cordage Co. (Jute), 20 N. Front, Phila., Pa.

SILVER LAKE CO. (Braided, etc.), 78 Channey, Boston, Mass. (See adv. index, end of book)

Travers Twine & Cordage Co., 261 Broadway, New York

TUCKER & CARTER ROPE CO.
("Stanly" Braided Cotton Sash Cord), 76 South, & 167 Maiden La., New York. (See adv. index, end of book)

Wall Rope Works, 53 South, New York

Ware, Bruce R. & Co., 116 Bedford, Boston

Whittier-Mills Co., Chattahoochee, Ga. Mass.

***Sash Cord Mfrs. (Steel Wire)**

AMERICAN STEEL & WIRE CO.
(Timed & Coppered), Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

TRENTON IRON CO., Trenton, N. J., & 30 Church, New York. (See adv. index, end of book)

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

X Sash (Greenhouse & Hot Bed)

Hyde-Murphy Co., Ridgway, Pa.

Jacobs, S. & Sons, 1365 Flushing av, Brooklyn, N. Y.

Lochland Lumber Co., Lochland, O.

Lord & Burnham Co., 1133 B'way, New York

Selden Cypress Door Co., Palatka, Fla.

Smith, Jos M. Co., 15 Nassau, Newark, N. J.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

Woodbury Mill Lumber Co., Woodbury, N. J.

Sash Hangers (Storm)

Phenlx Mfg. Co. ("Phenlx"), Humhold av., cor Centre, Milwaukee, Wis.

Schroeder, Anton ("Peerless"), 873 Dayton av, St. Paul, Minn.

STANLEY WKS. ("Schroeder-Peerless," Hanger & Fastener), New Britain, Conn. (See adv. index & branch offices, end of book)

Watrows, E. L. Mfg. Co. (Hanger & Screen Hinge Combined), Des Moines, Iowa.

Willer Mfg. Co., 313 Cedar, Milwaukee, Wis.

Sash Holders

Automatic Sash Holder Co., 277 B'way, New York

Hart Sash Holder Co. (Hart Anti-Rattler), Lexington, Mo.

Sash Lifts

(See Lifts, Sash)

Sash Line

(See Sash Cord Manufacturers)

Sash Locks

(See Lock Manufacturers, Sash)

Sash Locks (Ventilating)

(See Lock Manufacturers, Sash Ventilating)

Sash (Metallic)

(See Window Frame & Sash, Metallic)

Sash Opening Apparatus

(See Sash Operating Device; also Ventilating Apparatus for Power Houses, Etc.)

Sash Operating Device

American Skylight & Iron Works, 221 Randolph, Jersey City, N. J.

Dearborn Hardware Mfg. Co. ("Standard," "Ideal," "Reliance" & "Triumph" Roller Bearings), 1344 Carroll av, Chicago, Ill.

Detroit Steel Products Co. ("Fenestra"), Detroit, Mich.

DROUVE, G. CO., Bridgeport, Conn. & 40 Dearborn, Chicago, Ill. (See adv. index, end of book)

Mitchings & Co., 1170 B'way, New York

Lord & Burnham Co., 1133 B'way, New York

Ormsby, E. A., 10 Thacher, Boston, Mass.

Payne, John A., 260 Culver av., Jersey City, N. J.

Thorn, J. S. Co. ("Brand"), 20th & Allegheny av, Phila., Pa.

Wolf Machine Co., 329 W. River, Dayton, O.

Sash Pulley Mfrs.

Austin & Eddy, 117 Broad, Boston, Mass.

Baltimore Sash Pulley & Hardware Co. (Ball Bearing), Baltimore, Md.

Bridgeport Sash Pulley Co. (All Steel), Grand Rapids, Mich.

Clark Mfg. Co., 260 Chandler, Buffalo, N. Y.

Coleman Hardware Co., 168 Michigan av., Chicago, Ill.

Corbin, P. & F., New Britain, Conn.

Enterprise Foundry Co., Pittsburg, Pa.

Gardner Sash Balance Co. (Ball Bearing), 164 Dearborn, Chicago, Ill.

Grand Rapids Hardware Co. ("Grand Rapids" All Steel Ball Bearing), Grand Rapids, Mich.

Grant Pulley & Hardware Co. ("Grant" Overhead & American Steel), 3 W. 29th, New York

Hardware & Woodenware Mfg. Co. (L. & S. I. Co.), 693 B'way, New York

Indianapolis Sash Pulley & Mfg. Co. ("Madison"), Indianapolis, Ind.

Johnston & Sharp Mfg. Co. ("Ottumwa" Ball Bearing Steel), Ottumwa, Iowa

Kilne Hardware Co., Allentown, Pa.

Kupferle, Jno. C. Foundry Co., St. Louis, Mo.

McDonough & Co., Eau Claire, Wis.

NIAGARA FALLS METAL STAMPING Co., Niagara Falls, N. Y. (See adv. index, end of book)

O. K. Mfg. Co. ("O. K." Pressed Steel), Phoenix bldg, Baltimore, Md.

Peck, Stow & Wilcox Co., Southington, Conn.

Penn Hardware Co., Reading, Pa.

Reading Hdw. Co. (Ball & Roller Bearing), Reading, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn.

Seldel Mfg. Co. ("Seldel" Noiseless), Chemical bldg, St. Louis, Mo.

Sloan, Frank B. & Co. ("The Norrils"), Baltimore, Md.

Stover Mfg. Co., Freeport, Ill.

Susquehanna Casting Co., Wrightsville, Pa.

Wrightsville Hdw. Co. ("Niagara," "Star," "Acme," "Gem" & "Empire" for Auger Mortises), Wrightsville, Pa.

Sash Pulley Mortiser

(See Pulley Mortising Machines)

Sash Ribbon

Caldwell Mfg. Co. (Aluminum Bronze), Rochester, N. Y.

Gardner Sash Balance Co. ("Gardner's" Steel), 164 Dearborn, Chicago, Ill.

Pullman Mfg. Co. (Aluminum Bronze & Attachments), Rochester, N. Y.

Seldel Mfg. Co., Chemical bldg., St. Louis, Mo.

Sash (Storm)

(See Storm Doors & Windows)

Sash Weights

American Brake Shoe & Foundry Co. (Cast Iron), Mahwah, N. J., & Western Union bldg, Chicago, Ill.

Austin & Eddy, 117 Broad, Boston, Mass.

Barber Mfg. Co. (Cast Iron), Ashtabula, O.

Bates, Jas. Sons, Pratt & President, Baltimore, Md.

Best Mfg. Co. ("Walden"), Pittsburg, Pa.

Birmingham Boiler Works, Birmingham, Ala.

Blatchford, E. W. Co. (Lead), 70 N Clinton Chicago, Ill.

Brown, E. E. & Co. (Iron), McKeon & Meadow, Phila., Pa.

Burditt & Williams Co., 4 High, Boston, Mass.

Solid Braided Cord.

ALL SIZES, QUALITIES AND COLORS.



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BOSTON, MASS.



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BOSTON, MASS.

Caldwell, E. R. & Co. (Cast Iron), Bradford, Pa.
 Caldwell & Drake Iron Works (Inc.) ("Rohrer's", Sectional), Columbus, Ind.
CANTON FDRY. & MACHINE CO. (Cast Iron), Canton, O. (See adv. Index, end of book)
 Chadwick-Boston Lead Co. (Lead), Boston, Mass.
 Cheney, S. & Son (Cast), Manlius, N. Y.
 Davenport Foundry & Machine Co. (Cast Iron), Davenport, Iowa
 Detroit Lead Pipe & Sheet Lead Works (Lead), Detroit, Mich.
 Drummond Mfg. Co. (Cast Iron), Louisville, Ky.
 Gibson & Price Co. (Lead), Cleveland, O.
 Hickok, W. O. Mfg. Co. (Cast Iron), Harrisburg, Pa.
 Janney & Co., Montgomery, Ala.
 Johnston & Jennings Co., Cleveland, O.
 Keagy & Lear Machine Co., Coshocton, O.
 King & Andrews Co. (Iron), Chicago Heights, Ill.
 Kings County Iron Foundry Co. (Lead, etc.), N. Y.
 Koeh & Fox (Lead, etc.), 22d & Glenwood av, Phila., Pa.
 Levering Bros., 230 Hughes av, Baltimore, Md.
 Lewis, Jno. T. & Bros. Co. (Lead), 231 S Front, Phila., Pa.
 Lissberger, Marks & Son (Lead), 281 Borden av, Brooklyn, N. Y.
 Madison Foundry Co. ("Acme"), 935 Addison rd., N. E., Cleveland, O.
 Mesker, Geo. L. & Co. (Cast Iron), Evansville, Ind.
 National Lead Co. (Lead), 100 William, New York
 Over, Ewald (Round & Square, Iron & Lead), 426 S Penn, Indianapolis, Ind.
 Paxton & Verling Iron Works (Iron), 17th & U. P. Ry, Omaha, Neb.
 Racine Malleable & Wrought Iron Co., Racine, Wis.
 Raymond Lead Co. (Lead), 51 W Lake, Chicago.
 Reading Hardware Co., Reading, Pa.
 Robertson, Jas. Mfg. Co. (Lead), Baltimore, Md.
 Rochester Lead Works (Lead), Rochester, N.Y.
 Ross, W. A. & Bro. ("Groove Eye" Elevator, Dumbwaller, Lead Sash, etc.), 11 S. William, New York
 Selby Smelting & Lead Co. (Lead), San Francisco, Cal.
 Southern Foundry & Machine Co., Knoxville, Tenn.
 Stiles Foundry & Supply Co. (Cast Iron), Parkersburg, W. Va.
 Tatbam & Bros. (Lead), 84 Beekman, New York, & 226 S 5th, Phila., Pa.
 Thompson Mfg. Co., Lancaster, N. H.
 Union Iron Works, Houston, Tex.
 Waterbury Foundry Co., Waterbury, Conn.
 Western Foundry & Sash Weight Co. (Cast Iron), 159 Miller, St. Louis, Mo.
 Windsor Mfg. Co. (Lead), Milwaukee, Wis.

Sashes, Doors & Blinds

Manufacturers are indicated by a Star (*);
 Dealers are indicated by a Dagger (†)

ALABAMA.

ANNISTON—*Houser, C. J., 431 W 16th
 BIRMINGHAM—†Blirmingham Paint & Glass Co.
 †Brewer, W. P., 1516 1st av
 †Moore & Handly Hardware Co.
 *Standard Mfg. Co.
 †Wood, Dickerson Lumber Co.
 CULLMAN—*Arnold, Casper & Son.
 DECATUR—*Jervis Lumber Co.
 ELBA—Perdne & Ham
 ENSLEY—*Sheppard Lumber Co.
 GADSDEN—†Smith, Echols-Burnett Hardware Co.
 *Southern Mfg. Co.
 GREENVILLE—†Johnson, J. F. Hardware Co.
 * (Wholesale & Retail)
 HUNTSVILLE—*Plummer, G. A.
 MOBILE—*Builders' Supply Co.
 †Cunningham Hardware Co.
 †Partridge, C. S. Hardware Co.
 MONTGOMERY—†Alabama Lumber Co.
 †Bogacki, C. Y.
 †Kennedy Co.
 *Montgomery Lumber & Mfg. Co. (Wholesale)
 ROANOKE—*Griffin & Satterwhite
 SELMA—†Schuster, Benj. J.
 TUSCALOOSA—†Allen & Jemison Co.

ARIZONA TERRITORY.

PHOENIX—Ryder, H. W.
 TUCSON—Tucson Lumber Co.

ARKANSAS.

BRINKLEY—*Brinkley Car Works & Mfg. Co.
 EUREKA SPRINGS—†Lloyd, W. J.
 FORT SMITH—*Kenny Bros. (Wholesale)
 †Tenney, J. M. & Co.
 HELENA—†Carvill, Herman & Co.
 LITTLE ROCK—Abeles, C. T. & Co., 215 Main
 MORRILTON—Dowdle & Henley
 NASHVILLE—†Skillern, Alex. L.
 PINE BLUFF—*Bluff City Lumber Co.
 TEXARKANA—Chaffield & Buhrman Hardware Co.

CALIFORNIA.

EUREKA—*Humboldt Door & Sash Co.
 FRESNO—*Madary Planing Mill (Inc.).
 HOBART MILLS—*Sierra Nevada Wood & Lumber Co. (Wholesale)
 LIVERMORE—†Anspacher Bros.
 Horton & Kennedy
 LOS ANGELES—*Builders Supply Co.
 *California Planing Mill & Lumber Co.
 City Mill & Mfg. Co., 290 N Av 21
 Consolidated Lumber Co., 614 Grosse bldg.
 †Fuller, W. P. & Co., 140 N Los Angeles
 *Hughes Mfg. Co., 1430 S. Alameda.
 *Kerchoff-Cuzner Mill & Lumber Co., 900 N. Alameda
 *Los Angeles Planing Mill, 1812 Industrial
 †Los Angeles Sash & Door Co., 120 E. 9th
 Los Angeles Storage Commission & Lumber Co., 125 W. 3d
 †Madary's Supply House, 737 Aliso
 National Lumber Co., Alameda ft 20th
 †Notzger, D. I. Lumber Co.
 Raphael, H. Co. (Wholesale Dealers), 509 S Main
 †Santa Fe Planing Mill Co., 940 E 4th
 Vernon Lumber Co., 4705 S. Central av
 Western Commercial Co. (Wholesale Dealers), 320 E Market
 Whiting Wrecking Co., 409 E 9th
 MENDOCINO—†Brown, Eugene
 NAPA—*Corlett Bros.
 NEVADA CITY—Marsh, M. L. & D.
 OAKLAND — *Burnham - Standeford Co., Wash'n c 1st
 California Door Co., c 16th & Wood
 *Mann & Mole
 Pacific Coast Lumber & Mill Co. (Redwood & Oregon Pine, etc.), 2d c Grove
 †Young, R. S. Supply Co., Wash'n c 4th
 OROVILLE—Perkins & Wise Co.
 PASADENA—Bilnn, L. W. Lumber Co.
 Kerekhoff-Cuzner Mill & Lumber Co.
 *Pasadena Mfg. Co.
 PETALUMA—Cavanaugh, Mrs. D.
 PLACERVILLE—Beach, S. G. & Co.
 Blair, J. & J.
 RED BLUFF—*Sierra Lumber Co. (Wholesale)
 SACRAMENTO—*Burnett & Sons
 Frazer, E. F.
 Friend & Terry Lumber Co.
 †Fuller, W. P. & Co.
 *Suter-Hevener Mill & Mfg. Co.
 SAN DIEGO—Fuller, W. P. & Co.
 *Graham, M. A. Mill Co.
 *Russ Lumber & Mill Co.
 †San Diego Lumber Co.
 †West Coast Lumber Co.
 SAN FRANCISCO—Burgess, C. W., 1715 Mission
 California Door Co., 20 Drumm
 California Mill Co., 645 Bryant
 Dean Reversible Window Co., 553 Brannan
 Doe, C. F. & Co., Lumber, Powell & Beach
 Hammond Lumber Co., Merchant Exchange
 Hansen, M. & Co., 231 King bldg.
 Huber, Frank, Son, York & Mariposa
 Moore, Robt. B., Folsom nr 4th.
 San Francisco Planing Mills, 185 Stevenson
 Sierra Lumber Co., Russ bldg.
 Wilkie, Andrew Co., Monadnock bldg.
 Wilson & Bro., 20 Drumm.
 SAN JOSE—*Chase, S. H. Lumber Co.
 Hubbard & Carmichael Bros.
 *Santa Clara Valley Mill & Lumber Co. (Wholesale)
 SANTA ANA—†Griffith, J. M. Co.
 †Pendleton, S. H. Lumber & Mill Co.
 SANTA BARBARA—Humphrey, G. W. & Co.
 *Union Mill Co.
 SANTA MARIA—Bryant & Trott Co.
 SANTA ROSA—Berka, Frank
 STOCKTON—Simpson & Gray
 Stockton Lumber Co.
 *Sunset Door & Sash Co. (Wholesale Mfrs.)
 *Thomas & Buell
 Union Planing Mill Co.

COLORADO.

COLORADO SPRINGS—*Walsh, Daniel W.
 DENVER—Englsh, R. W. Lumber Co., 51 Jacobson bldg

Hallack Lumber Supply Co., 3901 Gilpin
 *Hallack & Howard Lumber Co., Larimer
 *Lewis & Wheeler Mercantile Co., 1525 18th
 *McPhee & McGinnity, 18th & Wazee
 *Sayre-Newton Lumber Co., 23d & Blake
 GLENWOOD SPRINGS—Dougan, Wm., Edwards, nr N
 LEADVILLE—Smith, S. L. Lumber Co.
 Williams Lumber Co., 6th & Hemlock
 PUEBLO—†Newton Lumber Co., 4th c Court
 TRINIDAD—†Davis, O. L. Lumber Co.
 †Hughes Bros. Lumber Co.

CONNECTICUT.

ANSONIA—†Ansonia Lumber Co.
 BRIDGEPORT—Burritt, A. W. Co., Knowlton
 *Miller, Frank Lumber Co. & Arctic
 †Tomlinson, J. L. Lumber Co., 89 Knowlton
 BRISTOL—†Fogg, W. E.
 †Judd, D. B. & Co.
 †Saxton & Strong
 DANBURY—*Armstrong, I. & Co.
 *Foster Bros.
 HARTFORD—*Andrews & Peck Co., 88 Market
 Booth, C. E., 36 Wells
 Nims, Whitney & Co., 1170 Main
 MERIDEN—†George, W. H. II., 16 Stone
 †Lyon & Billard Co., 13 S Colony
 †Meriden Lumber Co., 174 State
 †Morehouse Bros. Co.
 MIDDLETOWN—†Davis, L. O. & E. S.
 NEW BRITAIN—†Rackliffe Bros. Co.
 †Rogers, D. M. & Co.
 NEW HAVEN—*Clark, David II., 106 Brewery
 †Bent, Wm. E., 132 Center W
 †Broder, Kaufman, 111 Congress av
 *Curtis, C. B., 118 Winchester av
 †Elm City Lumber Co., 144 Water
 †Hawthorn, Lewis Co., 88 Water
 †Humiston, O. W., 82 Water
 †Morgan & Humiston, 42 Pearl
 Norton Bros. & White Co., 98 Water
 †Sperry & Amos Co., 96 Water
 NEW LONDON—†Goddard, Asa O.
 NEW MILFORD—†Beach, C. M.
 †Soule, T. Co.
 NORWALK—†Hubbell & Staples Hardware Co.
 *Malin, A. R. & Co.
 NORWICH—†Chappell, Edw. Co.
 †Crowell, Fred C., 91 Water
 *Porter, H. B. & Son Co.
 PORTLAND—†Strong & Hale
 PUTNAM—†Fox, J. O. & Co.
 Wheaton Building & Lumber Co.
 SOUTHINGTON—†Southington Lumber & Feed Co.
 STAMFORD—*St. John Wood Working Co.
 †Stamford Lumber Co.
 WATERBURY—†Brass City Lumber Co., 60 Meadow
 †City Lumber & Coal Co., 590 W Main
 Smith, J. E. & Co., 65 Benedict
 *Waterbury Lumber & Coal Co., 107 Meadow
 WILLIMANTIC—†Hillhouse & Taylor
 WINSTED—†Burwell, J. C.

DELAWARE.

DOVER—*Hartnett, J. A. & Bro.
 GEORGETOWN—Thoroughgood, Wm. J.
 MIDDLETOWN—†Hukill, G. E.
 SEAFORD—Wallace, L. E.
 WILMINGTON—Evans, Hy.
 Simmons, S. G. & Bro., Tatnall & Front
 *Wilmington Sash, Door & Blind Co.

DISTRICT OF COLUMBIA.

WASHINGTON — †Barber & Ross, 614 11th, N W
 *Barker, Geo. M., 649 N. Y. av, N W
 *Crupper, Jos. L., 13th & Ohio av, N W
 *Dyer, William H., 13th c Ohio, N W
 *Herrell, L. L. & Bro., 1315 11th S. E.
 *Libby, J. Edward & Sons, 3053 P. N W
 *Smith, T. W., 1st & Indiana av, N W
 †Walker, Geo. E., 7th & K. S W
 *Washington Woodworking Co., 12th c B, N W

FLORIDA.

APALACHICOLA—*Marshall, John & Co.
 JACKSONVILLE—Enterprise Planing Mill Co.
 †Florida Hardware Co., 10 W Bay
 †Hubbard, S. B. Co. (Inc.)
 KEY WEST—†Johnson, J. W.
 †Johnson, W. A. & Bro.
 PALATKA—*Selden Cypress Door Co.
 PENSACOLA—*De Silva, H. G. & Co.
 ST. AUGUSTINE—†Hamblen, C. F.
 SANFORD—†Fernald, Geo. H. Hardware Co.
 TALLAHASSEE—†Gillmore & Davis
 †Yaeger & Bethel Hardware Co.
 TAMPA—†Knight & Wall Co.

GEORGIA.

ALBANY—*Cruger & Pace
 †Weston, J. D. & Son
 AMERICUS—*Americus Construction Co.
 †Sheffield-Huntington Co.
 ATHENS—†Athens Hardware Co.
 †Fleming Dearing Hardware Co.
 ATLANTA—*Phoenix Planing Mill, 27 N Butler
 *Ray, D. J., 510 Temple Court
 †Smith & Simpson Lumber Co., 391 Peters
 *Traynham, W. L., Peters bldg
 †West Lumber Co., 240 Peters
 †Williams, G. O. Lumber Co., 257 Marietta
 †Willingham-Tift Lumber Co., Empire bldg
 *Woodward Lumber Co., 25 Murphy av
 AUGUSTA—*Augusta Lumber Co.
 *Perkins Mfg. Co.
 BRUNSWICK—†Colson Hardware Co.
 CARROLLTON—*New, D. F. & Bro.
 COLUMBUS—Columbus Iron Works Co.
 *Dudley-Butts Sash, Door & Lumber Co.
 †Harvey, W. T. & Co., 1st av & 12th
 CORDELE—Cordele Sash, Door & Lumber Co.
 DALTON—*Cherokee Mfg. Co.
 *Farrar Lumber Co.
 FITZGERALD—*Small, J. D.
 GAINESVILLE—Queen City Planing Mill Co.
 GRIFFIN—*Gresham Planing Mill Co.
 Griffin Sash & Door Co.
 LA GRANGE—*Pike Bros. Lumber Co.
 MACON—Burke, T. C., 358 3d
 *Wilders, R. C. Sons Co., 614 3d
 *Willingham Sash & Door Co., 457 3d
 MARIETTA—*Henderson, C. E.
 NEWNAN—*Cole, R. D. Mfg. Co.
 ROME—O'Neil Mfg. Co.
 †Patton Sash, Door & Building Co.
 SAVANNAH—†Adams Paint Co.
 *Bacon, A. S. & Sons
 †Butler, John G. Builders Supply Co., 20
 †Neal-Blum Co., 112 W Bay Congress
 *Sav. Lumber Co.
 *Southern Pine Co. (of Georgia)
 THOMASVILLE—†Watt Supply Co.
 WASHINGTON—Washington Mfg. Co.
 WINDER—†Boyd, W. E.
 *Pledger & Vonderlieth

HAWAII.

HONOLULU—Lewers & Cooke, Ltd.

IDAHO.

BOISE CITY—*Goresky, A.
 †Ridenbough, W. H.
 †Shaw Lumber Co.

ILLINOIS.

ALTON—*Ginter-Wardien Lumber Co.
 *Winter, H. L.
 ANNA—Anna Lbr. & Mfg. Co.
 AURORA—*Hartsburg & Hawksley
 *Hill, L. O.
 *Johns & Brown Co.
 BATAVIA—†Hunter-Griffith Co.
 BELLEVILLE—†Reis, J. B. Lumber Co.
 †Reis, M. & H.
 *Storck, Geo. P.
 BLOOMINGTON—†Darlington, E. R. Lumber Co.
 *Evans, John W. Sons Co.
 †Fordice, J. M.
 †Harwood, W. S. & Bro.
 *Minter Mfg. Co.
 †Parker Bros.
 *White, S. R. Mfg. Co.
 CAIRO—Lancaster, Charles, Commercial av
 †Langan, P. T., 1006 Commercial av
 CARTHAGE—†Lyon, W. E. & Co.
 CHAMPAIGN—*Oliger, Frank
 CHATTAM—†Moore, Chas.
 CHICAGO—*Abbott, F. L., 405 5th av
 *Anderson & Lind, 187 Iowa
 *Avondale Sash & Door Co., 738 W Belmont av
 †Benedict, John S., 135 N Halsted
 †Biggs, A. & Co., 1140 Elston av
 *Builders' Mfg. Co., 243 N Wells
 †Bursik & Krupka Co., 940 S Fairfield av
 California Mfg. Co., 982 S Troy
 †Chandler Lumber Co., 100 Elston av
 *Chicago Mill & Lumber Co. (Mfrs.), West Chicago av & N Sangamon
 *Chicago Sash, Door & Blind Mfg. Co., 48 W North av
 *Chicago Veneered Door Co., Chamber of Commerce bldg
 †Clayton, Charles W., 1852 Armitage
 *Commercial Sash & Door Co., 4902 S Paulina
 †Curtis, Cornelius W., 7434 Kimbark av
 †Curtis, Edgar G., 2413 N Paulina
 *Dietsch, A. & Co., 619 Sheffield av
 *Dlouhy, Vincent Sash & Door Co., 701
 †Dodge, H. B. & Co., 108 Lasalle Laflin

Ehrhart, Louis & Son, 334 W Fullerton av
 *Englewood Sash & Door Co., 5947 Lowe
 Filer, Edwd. T., 79 Dearborn av
 Filp, Meydrech & Co., 505 W 21st
 Foley Mfg. Co., Western av & 25th
 Foster-Munger Co. (Wholesale), W 20th
 & S Sangamon
 †Freese, F. E., 1416 Armitage av
 *Gardner Mill Co., 1140 Elston av
 *Gauger, John A. & Co. (Wholesale Mfrs.),
 W 22d & Latin
 General Sash & Door Ass'n, 402-77 Jackson
 Gisselbrecht & Sator, 992 N Mozart boul
 †Haring, Louis, 1138 Clybourn
 *Harty Bros. & Harty Co., 21st S W c
 Loomis
 Hegener, Rudolph Co., 72 Madison
 Hess, Frank & Sons, 1264 N California av
 Hillock, James S., 2601 Millock av
 Howell, Thos. S., 59 Clark
 *Katz & Hamann Co., 5951 S Halsted
 King, Pat'k J., 958 N Spaulding av
 Kraetzer, Fischer & Co., 95th & S Chicago
 *Krause, Fred'k F., 969 Tripp av
 Lechlitter, Peter, 909 W Madison
 *Leitzow & Simon Mfg. Co., 523 W Kenzie
 *Lockwood & Strickland Co., 49th & Halsted
 *McEwen Building & Mfg. Co., 245 N Wells
 Mears Slayter Lumber Co., 1113 Belmont
 Melrose Mill Co., 1130 Clybourn av
 Morris, Wm. & Sons, 563 35th
 *Nollau & Wolff Mfg. Co., 35 Fullerton av
 *North Ave. Mfg. Co., 53 E North av
 North Side Sash & Door Co., 1140 Elston av
 Paine Lumber Co., Chamber of Commerce
 Peters, H. G., 740 W 15th hldg
 *Pulaski Sash & Door Co., 75 W North av
 Purnort, Henry C., Throop & W 22d
 Radford Sash & Door Co., 192 W 22nd
 *Rinn, Philip Co., Division & Crosby
 *Roberts, E. L. & Co., W 22d c Union pl
 Russell, Perley A., 1133 School
 Schaller-Hoerr Co. (Storm Sash & Doors,
 etc.), 496 S. California av
 Scheldt Mfg. Co., 2756 N 40th av
 Schroth & Ahrens, 639 S. Halsted
 *Skowronski, W. J., 8465 Baltimore, av
 South Side Lumber Co. (Wholesale), 1044 S Ashland av
 *Standard Sash & Door Co., 5821 S Center av
 Stewart, Alex., 316 Chamber of Commerce
 Storgaard, Anders, 927 N Western av
 Struthers, A. J. & Co., 1616 Grand av
 Tibbits-Cameron Lumber Co., 644 Greenleaf
 Trefftz Bros., 542 33d
 True & True Co., Blue Island av, s w c
 Lh coll
 *Twentieth Century Window Co., 1224 Newport av
 Ullrich, August G., 3864 Archer av
 Union Interior Finish Co., Lasalle nr W
 *Von Platen & Dick, 843 W Kenzie 53d
 Weidenaur, H. & Co., 6643 Union av
 Wheelock Lumber & Mfg. Co., 945 N Campbell av
 Wilson, Jas. G. Mfg. Co., 108 Lasalle
 Wright, Chas. O., 1855 N Calif av
 CLINTON—†Killough, John
 DANVILLE—†Holden, N. E.
 Watson, Geo. H.
 DECATUR—Deatur Lumber & Mfg. Co.
 †Huff, W. J. & Co.
 Lyon, Geo. S. & Sons Lumber & Mfg. Co.
 †Mills Lumber Co.
 DE KALB—*Schermerhorn, L. C. & Co.
 DIXON—*Fletcher Mfg. Co.
 EAST ST. LOUIS—*Gedney Construction Co.
 †Goedde, B. & Co.
 *Miller, Chas. J.
 *Wiegrefe, Theo. & Sons
 EDWARDSVILLE—†Hotz Lumber Co.
 EFFINGHAM—†Wildi-Leddy Lumber Co.
 ELGIN—*Rinehimer Bros. Mfg. Co.
 EVANSTON—†Pearson Lumber Co.
 FREEPORT—*Ramberger, Elias
 GALENA—†Hoskins, Wm. & Co.
 Taylor, D. A.
 GALESBURG—*Colton, G. D. & Co.
 HARVARD—†Lake, Harris & Backus
 HIGHLAND—†Martel, Sebastian
 JACKSONVILLE—Andrews, B. P. & Sons
 JERSEYVILLE—†Christy, John
 †Cockrell, E. Lumber Co.
 †Robb, Alex. C.
 JOLIET—*Alexander, M., 105 S Desplaines
 *Hacker, C. Co., 100 Collins
 †Joliet Sash & Door Co.
 KANKAKEE—*Panlissen, John G.
 †Troup, H. H. & Co.
 KEWAUNEE—Scott, John
 LA SALLE—†Huuter-Stevens & Co.

LEMONT—Derhy, S. L. Lumber Co.
 †Helbig, A. J.
 LINCOLN—*Hungerford, William
 MATTOON—Andrews Bros.
 METROPOLIS CITY—†Gibbons, A. J.
 MOLINE—Dimock, Gould & Co.
 †Mueller Lumber Co.
 MONMOUTH—†McCullough Lumber & Coal Co
 †Monmouth Lumber Co.
 MOUNT VERNON—†Walker, E. M. Co.
 NAPERVILLE—†Schwartz, M. & Co.
 NEWMAN—†Thomas, Reuben
 NORMAL—†Stillbamer, H. W. & Co.
 NORTH AURORA—*Hartsburg & Hawksley Co.
 OAK PARK—*Bedard & Morency Mill Co.
 OTTAWA—*Sanders Bros. Mfg. Co.
 *Sinnott Bros.
 PARIS—†Probst Lumber Co.
 PEKIN—†Conklin, Reuling Co.
 PEORIA—*Carr & Adams Co., 916 S Wash'n
 †Cutright & Russell, 1000 S Washington
 *Garside Mfg. Co., S Wash'n, c Oak
 †Kuetzger, Chas. Lumber Co., S Washington
 †Mackemer Lumber Co., 601 S Washington
 †Rogers, Jas. T., 810 S Washington
 *Rothan, Geo. J., Johnson c Webster
 *Todhunter & Alfs, 208 Walnut
 *Wahlfeld Mfg. Co., 1101 S Wash'n
 PERU—†Maze, W. H. & Co.
 †Zimmerman, C. & Co.
 PONTIAC—†Smith, F. N.
 QUINCY—*Meuke-Grinn Planing Mill Co.
 *Mullner Box & Planing Co., 2d & B'way
 RED BUD—†Boedeker, C. H.
 ROCKFORD—†Crumb, R. W. Lumber & Fuel Co.
 *Derwent, T. J. Co.
 †Marshall, A. H.
 Parsons Lbr. Co.
 †Rockford Lumber & Fuel Co.
 *Rockford Builders' Supply Co.
 ROCK ISLAND—Rock Island Sash & Door Works
 Rock Island Wood Works
 *Volk, Jno. & Co.
 SPRINGFIELD—†Baker & Baker
 *McGrew, P. O.
 *Power, Chas. A.
 †Schuck, J. H. & Son
 Vredenburgh, Peter Lumber Co.
 STERLING—†Dillon, Moses Co.
 STREATOR—†Ames, John O. Lumber Co.
 †Schmid, George A.
 Streator Lumber Co.
 URBANA—†Huff, S. E. & Co.
 UTICA—†Wilson, Jas. E.
 WAUKEGAN—*Dow, W. H. Mfg. Co.
 †Gourley, John & Co.
 †Kirk, George & Son
 WEST CHICAGO—*Brandt, Haase & Walsh

INDIANA.

ALBION—†Eagles & Son
 ANDERSON—†Atherton, M. & Sons, N Meridina
 *Springer, G. E., N Main
 BATESVILLE—†Meyer, J. & Bro.
 BEDFORD—†Bedford Building Supply Co.
 BERNIE—†Baumgartner Bros. & Co.
 Gillom Lumber Co.
 †Sehug Bros.
 BLOOMINGTON—Davis Hdw. Co.
 *Fulwider, W. A.
 BLUFFTON—†Cline, A. B. & Co.
 BOONVILLE—†White, C. P. Lumber Co.
 BRAZIL—*Halstead, J. N.
 *Reed & Sons
 *Wilder, C. E. & Co.
 BREMEN—†Steineck, J. H.
 BROOKVILLE—*Dudley, F. M.
 †Fleber & Holmes
 †Fries & Geis
 †Samoniel, C.
 CARLISLE—†Risinger & Ellis
 CICERO—*Cicero Lumber Co.
 CLAY CITY—†Gulrl, W. H. & Co.
 †Middlemas, D. C. Sons
 COLUMBUS—*Dunlap & Co.
 †Hege & Co.
 †Schwartzkopf, J. G. & Son
 CONNERSVILLE—†Enos, E. A. & Co.
 *Stoops, Thos. H.
 CORYDON—†Bullitt, J. J. & Son
 †Hurst, B. F.
 COVINGTON—†Clark, M. H.
 †Townsend, J. L.
 *Williams, Geo. W.
 CRAWFORDSVILLE—*Rumble, Geo. & Bro.
 DECATUR—*Kirsch, Peter
 ELKHART—†Newman Bros.
 ELWOOD—†Winters Lumber Co.
 EVANSVILLE—*Cottage Bldg Co.
 *Evansville Planing Mill Co.
 *McCorkle, John S.
 *Mechanics' Planing Mill Co.
 †Rechtin, Theo. E.
 †Schnute-Holtmann Co.
 †Schultze, Waltman & Co.

FAIRMOUNT—†Mercer, Brannum & Bevington Co.
 †Swain, J. L. Co.
 FORT WAYNE—Diether Lumber Co.
 *Fort Wayne Lumber Co.
 *Gilmartin, Edw.
 †Rhinesmith & Simonson
 †Schlatter, C. C. & Co.
 FRANKFORT—†Deming & Thompson Lumber Co.
 *Kramer Bros. Co.
 GARRETT—*Allman, N. R.
 †Garrett Lumber Co.
 GOSHEN—*Goshen Sash & Door Co.
 GREENCASTLE—†Bicknell Hardware Co.
 †Cook, John
 Owl Mercantile Co.
 HAMMOND—†Paxton Lumber Co.
 HARLAN—*Bickhart Bros.
 HUNTINGBURG—*Huntingburg Planing Mill Co.
 †Strattmann, Adam
 HUNTINGTON—†Hewitt, E. G.
 †Nave & Provines
 †Relchenbach & Wickenheiser
 INDIANAPOLIS—*Anson-Hixon Sash & Door Co., 125 E Norwood
 †Adams Carr Co., McCarty & I. C. R. R.
 *Balke & Krauss Co., Missouri & Market
 †Buddenbaum Lumber Co., N. Y. & Pine
 †Capitol Lumber Co., 849 Massachusetts av
 †Carter, Lee & Co., 1621 W Washington
 †Dalton Lumber Co., 30 S Noble
 †Dynes Lumber Co., E 30th & Monon Ry
 *Eaglesfield Lumber Co.
 *Foster Lumber Co., 802 N Senate av
 †Greer-Wilkinson Lumber Co. (Wholesale)
 †Home Lumber Co., 912 E Michigan (Mfrs.)
 *Indianapolis Mfrs. & Carpenters' Union, 201 S N. J.
 †Maas-Neimeyer Lumber Co., E 22d & Monon
 †Michigan Lumber Co., 929 E St Clair
 JEFFERSONVILLE—†Lindley, T. J.
 KOKOMO—*Armstrong, Landon Co.
 *Moore & Danner
 LADOGA—*Huntington & Son
 LAFAYETTE—*Lafayette Lumber & Mfg. Co.
 Taylor, Henry Lumber Co.
 LA PORTE—*La Porte Sash & Door Co.
 LEBANON—*Pinnell, J. W. & Co.
 LOGANSPOUT—†Johnson, M. L.
 *Parker & Johnston
 *Stevens & Bro.
 †Thompson Lumber Co.
 †Voorhees, Philip
 MADISON—*Madison Planing Mill & Lumber Co.
 MARION—†Barley & Spencer Lbr. Co.
 *Campbell, Jas.
 †Hogin, McKinney & Co.
 *Marion Planing Mill Co.
 †Marion Hardware Co.
 †Price & Co.
 MICHIGAN CITY—†Michigan City Sash & Door Co.
 MISHAWAKA—†Lang, O. E. & Co.
 MUNCIE—*Franklin Lumber Co.
 †Greeley Lumber Co.
 †Greer-Wilkinson Lumber Co.
 †Klus & Groueff Lumber Co.
 †Kirby-Wood Lumber Co.
 *Zook, T. L. & Son
 NEW ALBANY—*Helfrich, Geo., Sr.
 †Loughmiller, Wm. A.
 †Stoy, Peter R. & Son
 NEW PALESTINE—*Madison, Jas.
 NORTH MANCHESTER—†North Manchester
 NORTH VERNON—*Miller Bros. Lumber Co.
 North Vernon Lumber Co.
 PRINCETON—*Ford, A. S.
 RICHMOND—*Louck & Hill Co.
 ROCKVILLE—†Dooley & Dooley
 †Ferguson & Co.
 †Flickel & Graham
 SEYMOUR—†Union Hardware Co.
 SHELBYVILLE—*Parrish, J. O.
 SOUTH BEND—†Dresden & Stanfield
 *Eckler, Henry Mfg. Co.
 Indiana Lumber & Mfg. Co.
 TELL CITY—*Tell City Planing Mill Co.
 TERRE HAUTE—†Briggs Lumber Co.
 †Hooten, R. A. & Co.
 *Kintz, N. C.
 †Merson & Bro.
 †Reese-Sulder Lumber Co.
 UPLAND—*Deeren, T. J.
 VALPARAISO—*Bell, E. A.
 VINCENTNES—†Bosworth, M. A.
 †Mellivane, H. R.
 WARASH—†King, McNamee & Hipkind
 WASHINGTON—†Cosby, O. M.
 *McKernan, Hugh

IOWA.

ALBIA—†Hobson Bros.
 BELLE PLAINE—†Henry, F. H.
 BELLEVUE—†Bittner, Louis
 †Dorchester & Hughey
 BURLINGTON—†Gilbert, Hedge & Co.
 *Nafra, Gillies Co.

CALMAR—*Calmar Mfg. Co.
 CARROLL—†Joyce, W. T. Co.
 CEDAR FALLS—Weisbard & Sucher
 CEDAR RAPIDS—†Hawkeye Lumber & Coal Co.
 †Limback & Jeffrey
 *Williams & Hunting Co.
 CHARLES CITY—*Smith, George P. Co.
 CLINTON—*Curtis Bros. & Co.
 COUNCIL BLUFFS—†Bluff City Lumber Co.
 *Graham, O. W.
 †Hoagland, George A.
 †Quinn, H. A. Lumber Co.
 *Wind, P. H., 13th & B'way
 CRESTON—†Green Bay Lumber Co.
 †Jackson & Sherry Co.
 DAVENPORT—*Davenport Wood Works
 †McClelland, T. W. Co.
 *Roberts, U. N. Co.
 *Sterling, P. J. & Co.
 DES MOINES—*Carr & Adams Co.
 †Century Lumber Co., 713 Mulberry
 †Gilest, J. K. & W. H., 301 E Locust
 DUBUQUE—*Carr-Ryder & Adams Co.
 *Farley & Loetscher Mfg. Co.
 *Metz Mfg. Co.
 †Sellepp, F. J. Lumber Co.
 DYERSVILLE—†Armstrong, James
 ELDORA—†Davis & Moser
 FORT DODGE—Fort Dodge Mfg. Co.
 FORT MADISON—Atlee, S. & J. G.
 INDIANOLA—†Harlan, J. M. Lumber Co.
 INDEPENDENCE—†Independence Lumber Co.
 KEOKUK—*Carter, S. C. & S. Co.
 *Schmidt, Henry & Sons Co.
 KEOTA—†Wright, S. S.
 KNIERIM—†Anderson, F. R. & Co.
 LE MARS—†Moore, M. A. & Co.
 †Perry, W. H.
 LYONS—*Disbrow, M. A. & Co.
 MCGREGOR—†Daubenberger Bros.
 MARSHALLTOWN—*Kreutzer & Wasem
 MOUNT PLEASANT—†Hall, M. C.
 MUSCATINE—*Huttig, Mfg. Co.
 *Roach & Musser Sash & Door Co.
 NEW HAMPTON—†Bigelow & Donivan
 ORANGE—Van Pelt & Van Eizenga
 OSKALOOSA—†Sinclair, S. B.
 OTTUMWA—*Snook & Son
 †Tisdale, F. A. & Co.
 SIOUX CITY—*Curtis Sash & Door Co.
 †Queal, J. H. & Co.
 †Spalding, J. D.
 SPENCER—†Floete Lumber Co.
 †Perine, A. C.
 WATERLOO—†Bryant, W. A. & Sons Co.
 †Chapman, C. W. Lumber Co.
 †Waterloo Lumber Co.

KANSAS.

ABILENE—†Cramer & Kruger
 ARKANSAS CITY—*Roberts, H. T.
 ATCHISON—†Brockett, B. L.
 Carlisle-Pennel Lumber Co.
 †Hixon Lumber Co.
 *Stevenson & Hooper
 COLUMBUS—Hardy Lumber Co.
 EMPORIA—†Emporia Lumber Co.
 †Evans, J. E.
 †Kirkwood, J. G.
 Watson-Ballweg Lumber Co.
 FULTON—Fulton Lumber Co.
 GARFIELD—†Waymire, N. O.
 GODDARD—†Pond, W. M. & Co.
 HUTCHINSON—Hutchinson Lumber & Planing Mill Co.
 *Snyder Co.
 †White, L. J. Lumber Co.
 INDEPENDENCE—Rock Island Lumber & Coal Co.
 IOLA—†Chicago Lumber & Coal Co.
 †Northrup Lumber Co.
 KANSAS CITY—†Armourdale Lumber Co., Kansas av c Brent
 †Badger Lumber Co., 18th & Kansas av
 †Byrne, John M. Lumber Co., 1319 N 5th
 †Creel, T. C. Lumber Co., 5th c Central
 Ellis, J. W. Planing Mill Co., Scott c St.
 Foster Lumber Co., 1501 N 5th
 Wyandotte Planing Mill, 1814 N 5th
 LEAVENWORTH—†Garrett, S. C.
 LOGAN—†King, E. I. & Co.
 McPHERSON—†Lake Superior Lumber Co.
 †Sudendorf, H. H.
 NEODESHA—†Cernal, W. N. (Est. of)
 NEWTON—†Newton Lumber Co.
 †Swartz, S. M. Lumber Co.
 OBERLIN—†Chicago Lumber & Coal Co.
 †Foster Lumber Co.
 OTTAWA—†Hallgren, J.
 †Harris, M. R.
 †Winget, W. F. & Co.
 PARSONS—†Clark & Bates Lumber Co.
 PEABODY—†Davison & Co.
 PHILLIPSBURG—†Central Lumber Co.
 †Smith, Theo. & Son
 PITTSBURG—*Ransom, H. R.
 †Sweet, C. B. & Bro.

SALINA—Leidigh & Havens Lumber Co.
 †Richolson Lumber Co.
 STERLING—†Fair, D. J.
 TOPEKA—*Central Sash & Door Co.
 *Horn, E.
 WICHITA—*United Sash & Door Co., 240 S Mosley
 *Wichita Sash, Door & Planing Mill Co.

KENTUCKY.

AUGUSTA—†Moneyhon, Geo. W. Co.
 BOWLING GREEN—*Kister, F. L., Jr.
 *Roemer Bros.
 CARLISLE—†Dorsey Bros. & Fisher
 COVINGTON—*Brownfield, J. A., 37 W 8th
 *Covington Lumber Co., Madison av
 *Hellmann, Lumber & Mfg. Co., 165 W 12th
 *Kentucky Planing Mill Co., 8th e of Garrard
 McDannold, F. M. (Dealer), 16th & Madison av
 FRANKFORT—*Choate, W. E.
 *Pilkington, H. C.
 GLASGOW—Smith, J. N.
 HENDERSON—*Clare's, Joseph Sons
 HOPKINSVILLE—*Forbes Mfg. Co.
 LAWRENCEBURG—Thurman, R. L.
 LEXINGTON—*Lexington Lbr. & Mfg. Co.
 *Spottswood, L. R. & Son
 *Williamson & Son
 LOUISVILLE—*Anderson Bros. Southern Planing Mill
 *Bell & Coggeshall Co.
 *Central Planing Mill & Lumber Co.
 †Comstock, L. H. & Bro.
 †Cook, Frank S. & Co.
 †Gernert Bros. Lumber Co.
 †Graham, S. P.
 †Hughes, E. L. Co.
 *Kentucky Sash & Door Co.
 †Koehler, Henry & Co.
 †Lortz & Frey Planing Mill Co.
 †Mehler & Eckstenkemper Lumber Co.
 *Struck, Alfred Co. (Wholesale Mfrs.)
 *Struck, Alfred
 MAYSVILLE—†Collins, H. H. Lumber Co.
 †Mathews, W. B. & Co.
 †Ohio River Lumber Co.
 MOUNT STERLING—McCormick Lumber Co.
 Star Planing Mill Co.
 NEWPORT—*Voss, Frank, 417 W 7th
 *Weingartner's, Joseph Sons, 1027 Monmouth
 PADUCAH—Langstaff-Orm Mfg. Co.
 PARIS—Lowry & Talbott
 RUSSELLVILLE—*Roberts & Brown
 SHELBYVILLE—*Gruber, L. H. & Sons.
 †Hall, W. H. & Son
 †Sharp, D. N.
 WARSAW—*M'Dannell, J. H. & Sons.

LOUISIANA.

ALEXANDRIA—Hayship & Dear
 LUTCHER—*Lutcher & Moore Cypress Lumber Co.
 NEW IBERIA—*Iberia Cypress Co. (Ltd.)
 *Trainer's, O. J. Son
 NEW ORLEANS—*Algiers Mfg. Co., 240 Gen. Meyer av
 *American Mfg. Co. (Ltd.), 2101 Louisiana
 *Berwick Lumber Co. (Ltd.), 2333 Clio
 *Builders' Supply Co. (Ltd.), 2019 Magazine
 *Central Mfg. & Lumber Co., Perdido, c S Salcedo
 *Chalin, Henry & Co. (Ltd.), 7451 Levee
 *Crescent City Mfg. Co. (Ltd.), 1205 Montegue
 *Franklin Sash Factory, 2125 Callope
 *Lambou & Noel Lumber & Mfg. Co. (Ltd.), c N Peters & Kentucky
 *Lewis, H. F. Co. (Ltd.), 316 Baronne
 *Lhote Lumber Mfg. Co., Toulouse c N Liberty
 PATTERSON—Riggs Cypress Co. (Cypress) (Wholesale Mfrs.)
 SHREVEPORT—*Allen Mfg. Co.
 *Hardman, C. C. & Co.
 *Victorla Lumber Co. (Ltd.)

MAINE.

AUGUSTA—†Augusta Lumber Co.
 *Lawrence, Newhall & Page Co.
 BANGOR—†Dickey, Wm. P. & Co.
 †Haynes & Chalmers Co.
 *Morse & Co.
 †Rice & Miller
 BATH—*Passmore, H. T. & Co.
 BELFAST—*Durham, J. C.
 †Hall, C. B.
 *Mathews Bros.
 BERWICK—*Nutter, J. C.
 BIDDLEFORD—†Banks, O. K.
 CAMDEN—*Camden Lumber Co.

CARIBOU—*Ellingwood Bros.
 CHERRYFIELD—*Wilson, E. K.
 †Wingate, E. R.
 DEXTER—Eldridge Bros.
 EASTPORT—†Capen, Geo. W.
 †Wadsworth, S. L. & Son
 ELLSWORTH—†Curtis, A. W.
 *Bonsey, E. & Son
 FAIRFIELD—†Totman, A. H.
 FORT FAIRFIELD—*Stevens, L. W.
 FOXCROFT—†Steward, J. H. & Son
 GARDINER—†Smith, Benj. S.
 HOULTON—*Davis, I. H.
 *Van Wart & Whitney
 LEWISTON—*Adams & White
 LIVERMORE FALLS—†Sewall, E. & H.
 MACHIAS—*Foster & Bryant
 MADISON—*Dane, J. H.
 MECHANIC FALLS—†Weston, A. J.
 NORWAY—†Hathaway, C. L.
 PITTSFIELD—*Bryant & Co.
 PORTLAND—†Allen, W. A., 125 Somerset
 *Berlin Mills Co.
 †Burrowes, Jno. W., 112 Preble
 †Farnham, H. F. & Co., R R Wharf
 †Leavitt, James, A. & Son, 366 Commercial
 *Nelson Mfg. Co. (Blinds), 273 Middle
 *Portland Door, Sash & Blind Co., 477
 †Smith & Rumery, 510 Fore
 ROCKLAND—†Glover, W. H. & Co., 451 Main
 SANFORD—†Brown, O. W., Main
 SKOWHEGAN—*Dane, J. H.
 *Page, Ira W., Jr.
 *Robinson Bros.
 WATERVILLE—†Arnold, W. B. & Co., 109
 †Hanson, Webber & Dunham, 99 Main

MARYLAND.

BALTIMORE—*Balto Sash & Door Co., How-
 ard & West
 *Dorsey, Wm. C., Highland vs & Phila. road
 *Duker, O. Co., Canton av & Albemarle
 †Foster, James P. & Co., 115 S Frederick
 *Gilbert, J. L. & Bro., East Falls & Eastern
 †Grauer, George, 326 Belair av
 †Hanneman, Aug., Monument c Milton av
 †Helse, Bruns & Co., 600 S Caroline
 *Keen, W. F. & Co., York rd & Carroll av
 *Lafayette Mill & Lumber Co., 2100 W
 †Morgan Co., Union Trust bldg, Main
 offices & factory at Oshkosh, Wis.
 †Mottu, Theo. & Co., 1022 Penna av
 †Scherer, Wm. C., 810 W Balto
 *Short, John H., Uhler's alley
 *Sloan, Geo. F. & Bro., 1103 S Paul
 *Sloan, Geo. F. & Bro., 414 Light
 †Sunnier & Gerlach, 1401 N Register
 *Thomas, Jos. & Son, 818 Leadenhall
 *Tinley Bros. Co., Bush & Nanticoke
 *Wagner, Lewis & Co., Wolfe & Thames
 CHESTERTOWN—*Culp, W. S. & A. M.
 GUMBERLAND—†Cumberland Sash & Door Co.
 ELKTON—†Keys & Miller Lumber Co.
 EMMITSBURG—†Zimmerman, E. R. & Son
 FREDERICK—*Wilcoxon & Brown
 HAGERSTOWN—*Snyder, Geo. C. & Co.
 HAVRE DE GRACE—†Dubois, Jno. E.
 LAUREL—†Shaffer, C. F.
 LUKE—*Sigler, Wm. T.
 SALISBURY—*Adkins, E. S. & Co.
 *Mitchell, Thos. H.
 †Williams, L. E. & Co.
 SNOW HILL—†Corddry, W. D. & Son

MASSACHUSETTS.

ADAMS—†Arnold, H. J. & Sons
 †Holden, M. J. Lumber Co.
 ATHOL—*Raymond, Alfred J.
 *Tyler, A. F.
 AYER—†Phelps, Levi W.
 BARRE PLAINS—*Rich, T. E. Co.
 BOSTON—*Bailey, E. W. Co., 24 Kneeland
 *Brockway-Smith Corp., 18 Washington
 †Carlisle-Ayer Co., 28 Washington, N
 †Carlisle, E. A. & Pope Co., 2 Sudbury
 *Chapman, H. B., 166 Devonshire
 *Cutter & Smith Co., 19 Warren, Rox.
 *D'Arcy & Sons Co., 61 Washington, N
 †Ellms, H. E. & Co., 22 Washington, N
 *Farrell, C. H. & Co., 6 Northampton
 †Hastings, A. W. & Co., 134 Friend
 †Jackson & Newton Co., 29 Haymarket sq
 *Johnson, Thos. J. & Co., 896 Washington
 *Kinnear Mfg. Co., 85 Water
 *Newton, F. C., 57 Bristol
 †O'Connor, T. W. Co., 125 Haverhill
 *Skinner & McManus, 41 Beverly
 *STEARNS, A. T. LUMBER CO.,
 Nepouset. (See adv. Index, end of book)
 *West End Sash Co., 61 Washington, N
 BROCKTON—†Mittell, L. & Co.
 †Tannton Lumber Co.

CAMBRIDGE—*Hersey, Ira G., 113 B'way
 CLINTON—*Fuller, Wm. A.
 †Howe, N. L.
 FALL RIVER—*Blossom, B. & Son
 †Borden, Cook & Co., 650 Davol
 †Neill, Joseph O., 130 Bedford
 †Prosser, Wm. & Son, 185 Pleasant
 †Skinner, A. H.
 FITCHBURG—†Johnson, W. C., 109 Water
 †Lawrence, Ivers P.
 *Leger, Dosithe
 *Priest, C. A. Lumber Co., 45 Rollstone
 †Webber Lumber Co., 31 Newton pl
 GARDNER—†Favor, M. M.
 †Wright, L. A. & Co.
 GLOUCESTER—†Nauus, L. B. & Sons
 GREENFIELD—†Franklin County Lumber Co.
 HAVERHILL—†Chase, D. D. Lumber Co.
 †McGrutty & Wheeler, 44 Main
 HINGHAM—Whitney, E. E.
 HOLYOKE—*Ely Lumber Co.
 *Merrick Lumber Co., nr B. & M. M. R.
 R. freight depot
 *Ranger, Casper, 10 Bond
 HUDSON—†Robertson & Larkin
 HYANNIS—Sears, J. K. & B. & Co.
 HYDE PARK—*Hodgkinson, J. & Son
 LAWRENCE—*Briggs & Allyn Mfg. Co., 20
 †Dillon, John, 100 B'way Winter
 †Lawrence Lumber Co., 616 Essex
 LOWELL—†Bennett, J. C. Co., 564 Middlesex
 *Pratt, Amasa Co., 766 Dutton
 LYNN—*Brockway-Smith Corp'n, 117 Pleasant
 †Hutchinson Lumber Co., Broad c Wash'n
 *Marshall Co., 149 Pleasant
 MALDEN—†Kamblach, W. S.
 †Malden City Lumber Co.
 MARBLEHEAD—*Bowden, T. J & Son.
 MARLBORO—†Elliott Lumber Co., 128 Lincoln
 MIDDLEBORO—†Sears, J. K. & B. Co.
 NATICK—†Fiske & Co.
 NEW BEDFORD—*Allen, A. W. Co., 193 N
 *Blossom Bros., 172 N Water Water
 *Greene & Wood
 †Nicholson, John G.
 †Sherman, James L.
 NEWBURYPORT—†Cutter, F. E. & Son, 48
 Merrimac
 NORTH ADAMS—*Dibble (The), S. B. Lumber
 Co.
 NORTHAMPTON—†Merrick Lumber Co., Mer-
 rick Is
 PITTSFIELD—†Berkshire Lumber Co.
 *Blakeslee Lumber Co.
 †Butler, James H. Lumber Co.
 *Fankner, Geo. W.
 †Ferry, C. S. & Sons
 *Hume, Edgar B.
 *Osteyec Bros.
 PLYMOUTH—†Atwood, E. B.
 †Robbins, L. T.
 PROVINCETOWN—†Dyer, B. H. & Co.
 SOMERVILLE—†Davenport-Brown Co.
 †Rice, W. P.
 SOUTHERIDGE—*Clemence, J. M. & L. D.
 SOUTH HADLEY—*Howard, Gaylord & Co.
 SOUTH HADLEY FALLS—†Street Lumber Co.
 SPRINGFIELD—†Decker, E. S. Lumber Co.
 *Hampden Lumber Co.
 *Walker, T. M. & Co.
 TAUNTON—†Sanders, C. V. & Co., 68 Weir
 *Williams, A. G. & Co., 62 Weir
 TURNERS FALLS—†Bartlett, Joseph F.
 WAREHAM—†Grifford, Prince
 WEBSTER—†Pattison, Louis E.
 WESTFIELD—*Boyle, John E.
 †Merrick Lumber Co., 280 Elm
 WILLIAMSTOWN—†Waterman & Moore
 WORCESTER—†Adams & Powers, 171 Union
 †Baker Lumber Co., 82 Foster
 †Clark, L. C. Co.
 †Griffin, W. E. Co.
 *Stevens, F. O., 144 Union

MICHIGAN.

ALBION—†Wilder, S. A. & Son
 ALPENA—*Gebhardt, Morrow & Co.
 ANN ARBOR—*Luick Bros.
 BATTLE CREEK—†North & Strong
 *Rathbun & Kraft Lumber Co., Ltd.
 BAY CITY—*Lamont, Matthew
 *Lewis Mfg. Co.
 BENTON HARBOR—†McDonald, James
 BIG RAPIDS—*Jones & Green
 BRIGHTON—†Hyne, F. T.
 CADILLAC—Cadillac Lumber Co., Haynes
 Bros.
 CALUMET—*Armstrong-Thielman Lumber
 Co.
 CHARLEVOIX—*Charlevoix Lumber Co.
 CHARLOTTE—†Webster, Cobb & Co.
 CHEYBOYGAN—*Cheyboygan Mfg. Co.
 COLDWATER—†Pollock, S. & Son

DETROIT—*Beyster, John, 875 W Fort
 *De Man Bros., 416 Maybury Grand av
 *Hertz & Hoshbach Co., 4th and Holden
 †Houston, Jas. D., 415 16th avs
 *Huebner Mfg. Co., Mt. Elliott av & M. C.
 R. R.
 *Hurd, W. F. & Co., 200 Campbell av
 *Japes, Frank Co., 8th & Plum
 *Kotcher, C. W., 639 Gratiot av
 *Lowrie & Robinson, 2596 W Jefferson av
 *Munroe, Wm. Co., 1000 Scotten av
 *Nicholson Mfg. Co., 456 Brooklyn av
 *Sibley, F. M. Lumber Co., Kercheval av
 & M. C. R. R. Belt Line
 *Weber, J. F. & Co., 300 Gratiot av
 ELSIE—†Wooley, J. B. & Sons
 ESCANABA—*Williams, Nick
 FLINT—†Randall Lumber & Coal Co.
 GRAND RAPIDS—*Dupree, John & Co., 320
 Taylor
 *Fuller & Rice Lbr. & Mfg. Co., 11 E
 *Letellier, F. & Co., 222 Canal Bridge
 *Stiles Bros., 1st av, c M. C. R. R.
 GREENVILLE—†Belknap & Son
 HANCOCK—†Stringer, Jas. S.
 HARBOR BEACH—*Wellock, Robinson
 HOLLAND—*Kleyn Lumber Co.
 HOUGHTON—*Pryor, James & Son
 IRON MOUNTAIN—†City Lumber Yard
 †Lalng, H. H. & Co.
 IRONWOOD—†Williams, E. B.
 JACKSON—†Lathrap, C. C., 258 Michigan av
 KALAMAZOO—*Dewling & Sons, 42 N Jackson
 Kalamazoo Woodworking Co.
 *North & Coon Lumber Co.
 LANSING—*Rikerd Lumber Co.
 LAPEER—*King, Robert Lumber Co.
 *Tuttle & Burritt
 LAURIUM—*Bray, N. S.
 LUDINGTON—†Cartier-Magmer Co.
 *Widmark, H. P. & Son
 MANISTIQUE—*Weston Lumber Co.
 MARCELLUS—*Hoover, H. J.
 MARINE CITY—†Zimmerman Bros.
 MARQUETTE—*Read, F. W. & Co.
 MENOMONEE—†Gibout, L. E.
 *Karthaiser, Frank
 MILFORD—*Byrue, P.
 MONROE—†Beck, C. F. & Son Co.
 MUSKOGON—*Langland Mfg. Co.
 NADEAU—*Jean, Augustine
 OWOSSO—†Sturtevant & Blood
 PAW PAW—*Free & Morrison
 PORT HURON—†Boyce Hardware Co.
 *Home Mfg. Co.
 †Sperry, J. B.
 †Sturmer, Richard T.
 †Taylor, C. F.
 QUINCY—*Sallsbury, J. N.
 SAGINAW—*Avery & Co., 300 Hayden
 *Bills & Van Auker, 1101 S Niagara
 *Booth & Boyd Lumber Co., Holden & Banm
 *Hardin, D. Co., 605 S Niagara, W S
 †Jackson, Thos. & Co., 2019 S Michigan av
 W S
 *Mershon, Schuette, Parker & Co. (Whole-
 sale Mfrs.)

*White, Albert C., S Jeff & Euclid av
 ST. CLAIR—*Mills, N. & B.
 ST. JOSEPH—†Wallace, Jno. & Sons
 SAULT SAINT MARIE—*Lock City Mfg. Co.
 SEBEWAING—*Sebewaing Lumber & Mfg.
 SHELBY—†McKinnon, Jessie
 †Rankin, A. J.
 †Spellman, S. & Co.
 SPRINGPORT—†Hoag, Houston
 STANTON—†Pierson, John W. & Co.
 TECUMSEH—*Lenawee Lumber Co.
 TRAVERSE CITY—*Greilick, J. E. Co.
 †South Side Lumber Co.
 WALDRON—*Abbaduska & Son
 †Gish, Charles M.
 WAYNE—†Wallace, J. B.
 YPSILANTI—†Fuller, George & Son
 †Webster Bros. & Sons

MINNESOTA.

ADRIAN—†Shull, J. & W. C.
 BLOOMING PRAIRIE—†Solberg, A. Lumber
 CLOQUET—*Cloquet Lumber Co. Co.
 †Fish, L. A. & Co.
 †Lolsel, Jos.
 *Northern Lumber Co.
 DULUTH—†Duluth Lumber Co.
 *Ouellette & Baxter Co.
 *Scott-Graft Lumber Co.
 *Wallinder, E. G.
 FERGUS FALLS—*Fergus Mfg. Co.
 FRANKLIN—†Hauser Lumber Co.
 MANKATO—*Mankato Interior Mfg. & Lbr.
 MELROSE—*Richmond, E. C. Co.
 MINNEAPOLIS—*Anderson, Fred, 2810 Bryant
 av
 *Bardwell-Robinson Co., 24th av cor 2nd

*Bintner & Lawson, 58 S 12th
 *Carlson, Aaron, 15th av nr Central av
 *City Mfg. Co., Lumber Exch.
 *City Sash & Door Co. (Wholesale Mfrs.), 230 S 4th

*Curtis & Yale Co., Security Bank bldg
 †Eddy Sash & Door Co., 125 2d, N E
 *Fulton & Libbey Co., 1428 N 2d
 *Joannin-Hansen Co., 2308 N 2d
 *Johnson, H. S. & Co., 18th av c Marshall
 *Johnson, Smith & Co., 1311 Yale av
 †Johnson, W. W. Lumber Co., Lumber Exch.
 †McCulloch-Kuhn-Atkinson Co., Lumber Exch.

*Minneapolis Sash & Door Co., 1018 Central av
 *Nelson-Tutbill Lumber Co., Central av, cor B'way
 †North Side Lumber, Sash & Door Co., 214 19th av, N

*Simonson Bros. Mfg. Co., 1713 S 7th
 *Smith & Wyman, 2d av & 8th
 †Stewart, Carl L. Lumber Co., New York Life bldg

†Thompson-McDonald Lumber Co., Lumber
 *Union Sash & Door Co., 218 S 8th Exch.
 *Waterman-Hunter Co., 515 1st av N E
 *Wilcox, J. F., 1030 Marshall

MORRIS—†Jones, Edw. J.
 RED WING—†Betcher, Chas. Lumber Co.
 ROCHESTER—†Dodge, W. H.

ST. CLOUD—*Raymond & Dunnewald Mfg. Co.
 *Wright & Smart

ST. PAUL—*Abbott Mfg. Co., 298 E 6th
 *Brooks Bros., 1923 W University av
 †Hardwood Door Co., 7 Corners
 †Lamb Lumber Co., 160 W 5th
 *Osgood, Blodgett Mfg. Co., Duluth av, n E 7th

*St. Croix Mfg. Co., Ryan hldg
 †St. Croix River Lumber Co., 185 E Fairfield av

*St. Croix Sash & Door Co., 185 E Fairfield av

*St. Paul Sash, Door & Lumber Co., Arundel & Minnehaha

*Villaume Box & Lumber Co., 123 W
 SAUK CENTER—†Ingram Lumber Co. Isabel
 STILLWATER—*St. Croix Lumber Co.

*St. Croix Mfg. Co.
 *Stillwater Mfg. Co.

THIEF RIVER FALLS—*Thief River Falls Lumber Co.

WARREN—†Robertson Lumber Co.
 †St. Hilarie Lumber Co.

WINONA—*Empire Lumber Co.
 *Laird-Norton Co.

*Schroth & Ahrens Co. (Wholesale Mfrs.)

MISSISSIPPI.

BILOXI—*Rosell, T. J. Mfg. Co.
 CORINTH—†Pocahontas Lumber Co.
 GREENVILLE—†Harty, J. J.

†Neal, Dolph

JACKSON—*Enoch's Lumber & Mfg. Co.
 †Jackson Lumber Co.

MERIDIAN—*Bostick Lumber & Mfg. Co.
 NATCHEZ—†Hill Lbr. & Mfg. Co.

VICKSBURG—*Curphey & Mundy
 †Mississippi Lumber Co.

*Spengler, A. & S.

MISSOURI.

BOWLING GREEN—†La Crosse Lumber Co.

BUTLER—Logan, Moore Lumber Co.

Wyatt, H. C. & Son

CANTON—Canton Lumber Co.

CAPE GIRARDEAU—Jones & Bohle

*Rees Bros. Mfg. Co.

CARTHAGE—†Harrison, J. F.

†Home Lumber Co.

†Thomas, B. F.

EXCELSIOR SPRINGS—†Chicago Lumber Co.

†Rice, S. R.

FARMINGTON—*Doughty, D. J.

†Lang & Bro.

†Teller-Klein Lumber Co.

FREDERICKTOWN—†Fredericktown Lumber Co.

GLASGOW—†Iagerdorn, D.

*Rall Bros.

HANNIBAL—Conlon, John R.

*Hannibal Door & Sash Co.

*Meyer, J. F. & Co.

JACKSON—†Caldwell, H. L.

JEFFERSON CITY—*Wallau, Henry J.

JOPLIN—†Joplin Sash & Door Co.

†Miller, L. F.

†Stewart Bros.

KANSAS CITY—*American Sash & Door Co. (Wholesale Mfrs.), 16th & Bellefontaine

*Armourdale Lumber Co., Kansas av c Brent

†Badger Lumber Co., 303 Postal Tel. bldg

†Bell Line Lumber Co., Vine c 20th

†Bruce Lumber Co., 20th & Grand av

†Byrne, J. M. Lumber Co., 20th & Wyandotte

Clark & Bates Lumber Co., Commercial bldg

†Creel, T. C. Lumber Co., 5th c Central

†Deatherage Lumber Co., 1600 Indiana av

†Dierks Lumber & Coal Co., R. A. Long bldg

†Dierks & Sons Lumber Co., 4620 Frost av

†Foster Lumber Co., R. A. Long bldg

†Lee & Lyman, 24 E 18th

*Louisiana Central Lumber Co., 1111 R. A. Long bldg

*Lovejoy, G. W., S. W. cor Campbell

†Merrill, J. W., S. W. Boul & Summit

*Roach & Kienzie Sash & Door Co., 16th & Bellefontaine

*Sawyer & Austin Lumber Co. (Wholesale Mfrs.)

Schmidt & Wible Mercantile Co., 1219

†Shutte, S. Z., 25th c Grand McGee

*Western Sash & Door Co., Grand av & 23d

LEBANON—†Lingsweller, J. G.

LOCKWOOD—†Eaton, W. R. & Co.

MARCELINE—*Pancost, L. E.

MARYVILLE—†McNeal-Parcher Lumber Co.

MOBERLY—†Mounce, D. H. & Co.

NEOSHO—*Neosho Planing Mill Co.

NEVADA—†Robinson, J. B. & Son

PALMYRA—†Noble, G. A.

RICHLAND—†Lingsweller, Edw.

ST. JOSEPH—*American Sash & Door Co.

†Badger Lumber Co., 6th & Penn

†Biles, N. D. L. & Co., 1422 S 6th

†Dougherty & Moss Lumber Co., 10th & Mitchell av

*Huttig-Moss Mfg. Co., 4th, cor Mitchell av

†Nold, Chas. H. Lumber Co., 1212 N 4th

†St. Joseph Lumber Co., 1401 Frederick av

ST. LOUIS—*Banner Sash & Door Co., 8025 S B'way

*Carondelet Mill Co., 7020 S Broadway

*Crescent Planing Mill Co., 3227 N 9th

*De Hodiarnout Planing Mill Co., 6101 Minerva av

*Fathman & Miller Planing Mill Co., 1060 Old Manchester rd

*Frye Mfg. Co., Tiffany & Vista av

†Ganahl, John J. Lumber Co., 2d c Park av

*Ganahl Planing Mill & Mfg. Co., Kosciusko & Geyer av

*Gaus, Henry & Sons Mfg. Co., 2130 N Main

*Gravois Planing Mill Co., Junata & Gravois av

*Great Western Planing Mill Co., 400 St. George

*Hafner Mfg. Co., Main & Dock

*Huttig Sash & Door Co., 1206 Manchester rd

*Imse-Schilling Sash & Door Co., Papin c

*Kuenzel, A. Mfg. Co., 2716 S 3d 21st

Lecouter Bros. Stair Mfg. Co., 3015 Sallena boul, cor Mo. Pac. Ry.

Lohse Patent Door Co., King's Highway boul

*Maplewood Planing Mill & Stair Co., 2731 Sulton av

*Mechanics' Planing Mill Co., 3746 N B'way

*Olcott, Chas. A. Planing Mill Co., 3300 N B'way

*Phoenix Planing Mill Co., c 12th & Spruce

*Reed-Steeger Sash & Door Works, 5149 Shaw av

*Riddle, Rehbein Mfg. Co., 13th & O'Fallon

*St. Louis Mfg. Co., 1523 N 13th

*St. Louis Sash & Door Works (Wholesale), Dock & Main

*Schaerff & Pfau, Kosciusko, n Geyer

†Simplex Revolving Sash Co., 306 N B'way

*Theiling-Lothmann Mfg. Co., 3810 N 9th

*Thomsen Planing Mill Co., 1700 Old Manchester rd

*Thuener, Chas. Planing Mill Co., Prairie av, s w c Lock

*Tower Grove Planing Mill Co., 1321 Kentucky av

*Wabash Wood Working Co., 601 S Newstead av

SPRINGFIELD—†Campbell Lumber Co.

*Davis Planing Mill Co.

†Garrett, W. L.

†Hallen Lumber & Supply Co.

†Hummel Lumber Co.

*Springfield Planing Mill & Lumber Co

MONTANA.

ANACONDA—*Anaconda Copper Mining Co.

BILLINGS—†Billings Lumber Co.

BUTTE—Big Blackfoot Milling Co.

Carroll, J. T. Lbr. Co.

Western Lumber Co.

GREAT FALLS—Holter Lbr. Co.

KALISPELL—KalisPELL Lumber Co.

*McMannamy, Wm. P.

MISSOULA—*Missoula Lumber Co.

RED LODGE—†Bowlen, Chas. C.

NEBRASKA.

BEATRICE—*Beatrice Planing Mill Co.

*Thistlewait Bros.

KEARNEY—†Gilchrist, F. H. Lumber Co.

†Seeley, C. S.

LINCOLN—*Curtis & Bartlett Co.

Searle & Chapin Lumber Co., 737 N

†Trester Lumber, Coal & Ice Co., 103 S 11th

NEBRASKA CITY—*Elwin, Ellis, 205 S 4th

OMAHA—*Adams & Kelly Co., 1520 Sherman

*Bloom, Alfred Co., 1502 California av

†Bullard, Hoagland & Benedict, Izard c 20th

†Cady, H. F. Lumber Co., Douglas c 6th

*Chicago Lumber Co. (of Omaha), 814 S 14th

†Dietz, C. N. Lumber Co., 1214 Farnam

*Disbrow, M. A. & Co., 1201 Nicholas

†Gulou & Ledwich, 1024 N 18th

†Hampton Lumber Co., 1242 S 16th

†Hoagland, G. A., 9th & Douglas

Omaha Wood Working Co., 1029 S 18th

*Rosenberry, A., 1501 Marcy

†Wagner & Buchanan, 23d & Paul

†Wells Lumber & Coal Co., 1501 Military

†Wentworth, Lew, Paxton blk

SOUTH OMAHA—†Bradford, Louis Lumber Co.

†Howland, E. H. Lumber & Coal Co.

†Watkins, J. B. & Co.

NEVADA.

GOLDFIELD—*Blair, C. C.

RENO—*Reno Mill & Lumber Co.

VERDI—*Verdi Lumber Co.

NEW HAMPSHIRE.

BRISTOL—†Wells, B. I. & A.

CENTER OSSIPEE—*Smart, C. H.

CONCORD—*Carpenter, Wellington, 7 Bridge

†Drake, Clifton W.

EPSON—*Marden, Freeman

FARMINGTON—†Mooney, Frank E.

GOFFSTOWN—Kendall, Hadley & Co.

KEENE—*Nims, Whitney & Co.

†Thayer & Collins

LAKEPORT—†Bonita, Gorrell Co.

LANCASTER—†Smith, Frank & Co.

*Thompson Mfg. Co.

LEBANON—*Spencer Bros.

LITTLETON—†Littleton Lumber Co.

MANCHESTER—*Derryfield Co.

†Hend & Dowst Co., 97 Granite

*Hodge, J.

†Hubbard, Wm. F. (Est. of)

MARLBORO DEPOT—*Sherman Bros.

MILFORD—†Peirce, Geo. H. & Co.

†Smith, C. H. V.

NASHUA—*Gregg & Son

†Otis, B. B. Co.

*Roby & Swart Mfg. Co.

PENACOOK—*Rolle, C. M. & A. W.

PLYMOUTH—†Smith, Jared A.

ROCHESTER—†Rochester Lumber Co.

NEW JERSEY.

ASBURY PARK—*Asbury Park Mill Co.

*Buchanan & Smock Lumber Co.

ATLANTIC CITY—*Samers Lumber Co.

BAYONNE—†Booth, A. W. & Bros., Orient & Linnett

BOONTON—*Todd, S. C.

BRIDGETON—*Loper, A. F.

BURLINGTON—*Severns, J. T. Sons & Co.

CAMDEN—*Coles, C. B. & Sons Co., Front & Chestnut

*Cooper, Wm. J. & Co., 221 Kaighn av

†Fredericks, Wm. H., 122 Arch

EAST ORANGE—*Curtis Bros.

ELIZABETH—*Ruttler, H. V. & Co.

†Heldt, F. L. & A.

FREELHOLD—†Reid, Leonard G., Spring nr

FRENCHTOWN—†White, Charles B'way

HACKENSACK—†Young, Frank

HAMMONTON—†Bernshaus, Wm. H.

HOBOKEN—*Gahagan's, J. Sons, 217 Adams

†Kortlang, H., 556 Ferry

HOMESTEAD—†Hollingshead, D. R. (Est. of)

NEW JERSEY CITY—*Barnes Mfg. Co., West Side av and D. L. & W. R. R.

†Engler, Chas. H., Kearny av nr West Side

*Prospect Sash & Door Co., 135 Pallsade

*Schulz, T. Sash & Door Co., 467 Pacific

*Woodhouse & Co., 1 Bishop av

†Woodstock Co., West Side av nr St. Paul

KEARNY—(See Arlington)

MADISON—†Smith, J. M. Co.

MANASQUAN—†Taylor, W. P.

MATAWAN—†Bailey, Wm. D.

MILLVILLE—*Kimball, Prince & Co.
MOORESTOWN—†Collins, John S. & Son
MORRISTOWN—†Ennis, C. W. & Co.
†Mills, Geo. A. Wood Working Co.
MOUNT HOLLY—†Ewan, Josiah W.
NEWARK—*American Saw & Planing Mill Co.,
307 18th av

*Barkhoru, Wm. H., 281 S 8th
†Blaschoff, William, 501 Bergen
*Craig, J. R. & Co., 131 N. J. R. R. av
*Empire Sash & Door Co., 228 W Kinney
†Fir Door Co., 20 Lawrence
†Glasby Lumber Co., 11 Badger av
†Goldingay, Charles, 88 E Kinney
†Hatt, J. William, 135 Halsey
*Maul, G. F., 780 S 18th
*Newark Door Co., 221 Sussex av
*Russell, W. P., 40 Lawrence
*Schill, Fred'k & Co., 102 Charlton
*Schrafft, A. Moulding Co., Bruen & Ham-
lton
*Tabor Sash Co., 61 Polk
*Wette Lumber Co., 667 S 10th
NEW BRUNSWICK—*Buttler, H. V. & Co.
ORANGE—*Barber, Chas. L., 112 Railroad av
*Romine, Jacob K. & Son, 21 Reock
PASSAIC—†Crane, Floyd H.
PATERSON—*Flourance Bros. Mfg. Co.
†Graham, Jos. R. (Est. of), 425 Grand
†Jackson-Bergen Co., Clay c Railroad av
PERTH AMBOY—†Farrington Co.
PLAINFIELD—†Burdick, Jesse G.
*McCullough, Richard H.
RED BANK—*Waters & Osborn
RUTHERFORD—*Soley, Chas. R. Co.
SALEM—*Bell, W. W. & Co.
SOUTH SEAVILLE—Collins, J. P.
TRENTON—*Conner Millwork Co.
*Leuckel, A. K. & Co.
VINELAND—*Kimball, Prince & Co.
†Pixley, Albert B.
WASHINGTON—*Alleger's, E. W. Son
†Gulick, Walter D.
WESTFIELD—†Tuttle Bros.
WOODBURY—Woodbury Mill & Lumber Co.

NEW MEXICO.

ALBUQUERQUE—†Baldridge, J. O.
LAS VEGAS—*Sundt, M. M.
SANTA FE—†Dudrow, C. W.
*Hesch, Philip, Sr.

NEW YORK.

ADAMS CENTER—*Green, O. D., Jr.
ADDISON—*Park, Winton & True
ALBANY—*Burton, Wm. H. Co., cor N Lan-
sing & Center
†Cameron & Hawn, 608 Central av
*Stephens, Thomas & Sons, 277 Lark
ALBION—*Mallory, C. M.
ALLEGANY—*Hall, W. M.
AMSTERDAM—*Brookside Lumber Co.
ANTWERP—†Bethel, George D.
ARCADE—Arcade Planing Mill Co.
AUBURN—†Pomeroy, T. M. & Co.
BALLSTON—*Reynolds, M. T.
BARKER—†Lum, L. O.
BATAVIA—*Batavia & N. Y. Woodworking
Co.
BATH—*Beekman Sash, Door & Woodworking
Co.
BINGHAMTON—*Bartlett & Co.
†Ensign Lumber Co., arvis ur E. R. R.
†Middlebrook, C. D. & Son, 226 State
*Roberson, Alonzo & Son
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—*Builders' Planing Mill Co., 187
Mehlgan
*Churchyard, Jos. J., 650 Clinton
*Dohn, Fischer & Beyer, 1340 Niagara
*Elias, G. & Bro., 965 Elk
*Feist, John & Sons Co., 111 Ash
*Flierl, Christian, 1356 Genesee
*Gilmour, David Door Co., 579 Tonawanda
*Hager, E. M. & Sons Co., 141 Elm
*Iroquois Door Co., Exchange & Larkin
*Koch, W. F., 121 Davey
*Ketz, Jos. & Sons, 292 Elm
*Montgomery Bros. & Co. (Inc.), Court &
Wilkeson
†Whissel Lumber Co., 1079 Clinton
†Smith-Blanchard Lumber Co., 1035 Fillmore
†Zels, M. & Sons, 200 Cherry
Zimmermann, Geo. M., 309 Pine
CANAJOHARIE—†Smith, Hugh M.
CANANDAIGUA—†Thompson, George T.
CANTON—†Rushton, J. W.
CARTHAGE—†Vrooman, Wallace B.
OATSKILL—†Lampman, Wm. E.
CAZENOVIA—*Thayer, T. W. Co.
CHAMPLAIN—†Earl, Jno.
CHERRY VALLEY—†Wales, Robert & Son

CLINTON—†Coleman, E. G.
COBLESKILL—†Courtler, Stanton
COHOES—*Breault, Medard Co.
*Griffin, A. J. & Son
COLD BROOK—†Rhodes & Connor
COLLIERSVILLE—*Fox, F. M.
COPENHAGEN—†Cary, James
CORNING—*Corning Building Co.
CORNWALL LANDING—†Taft-Howell Co.
CORTLAND—†Benton, H. F. Lumber Co.
CROGHAN—†Virkler, Emanuel
CROWN POINT—†Bly, N.

*Pond, J. E. & Son
DANSVILLE—*Fisk Bros.
DEPOSIT—†Kerr, F. M.
DEXTER—†Blinger, Hy.
†Leonard & Gilmore Co.
DUNKIRK—†Atlas Builders' Supply Co.
*O'Donnell, M. J. & Co.
*Madigan & Co.
EARLVILLE—†Todd & Gurney
EAST AURORA—*Peek, S. H.
EDMESTON—†Ackerman, E. L.
ELLENVILLE—†Bailey & Deyo
ELMIRA—*Doane & Jones Lumber Co.
*Elmira Sash, Door & Blind Co.
*Spaulding, H. C. Co.
FALCONER—*Chautauqua Planing Mill Co.
FREDONIA—*Edmonds, R.
FRIENDSHIP—*Empire Sash & Door Co.
FULTONVILLE—†Mohawk Valley Lumber Co.
GENEVA—†Moore, Daniel E.
†Rogers, R. J. Lumber Co.
GLENS FALLS—*Kendrick & Brown
GLOVERSVILLE—†Burr Bros.
†Holden, Charles J.
†Holmes, R. E.
GOUVERNEUR—†Carpenter, J. H.
*Van Duzee, S. B. Mfg. Co.
GOWANDA—*Forbush Planing Mill Co.
GRANVILLE—†Potter, Fred.
GREENE—†Lyon Iron Works
GREEN ISLAND—*Crampton & Belden
GREENPORT—†Corwin, C. L.
HAMBURG—Hamburg Planing Mill Co.
HEMPSTEAD—†Plyer, Wm. & Co.
HICKSVILLE—*Voight, C. H.
HOLLAND—*Holland Planing Mill Co.
HOLLEY—†Cole, N. L.
HOOSICK FALLS—*Easton, Rising & Worden
HORNELLSVILLE—*McConnell Mfg. Co.
HORSEHEADS—*Tuttle, W. E.
HUDSON—Traver, W. H. & Son
ITHACA—†Dixon & Robinson
†Rumsey, C. J. & Co.
†Treman, Kling & Co.
JAMAICA—(See New York City, Borough of
Queens)
JAMESTOWN—*Watson Mfg. Co. (Queens)
*Wilson, John T.
JOHNSTOWN—†Stephenson, L.
*Younglove, James I.
KEESVILLE—†Prescott, R. & Son
KINGSTON—*Coutant, A. K., North c Strand
†Mauterstock, Albert, 109 B'way
*Palen's, Henry W. Sons
*Traphagen & Hull Mfg. Co.
†Turck, W. J. Co., 75 E Strand
†Weeks, Theo., 70 Furnace
LANCASTER—*Knauber, Mrs. M. A.
†Weill, J. C.
LANSINGBURG—*Madden Lumber Co.
LAWRENCE—*Wood, John A. & Son
LEROY—*Lapp Bros.
*Rogers, F. C.
LESTERSHIRE—*Lestershire Lumber & Box
Co.
LIBERTY—†Edmonds, Wm. F.
LITTLE FALLS—†Little, Andrew
LIVINGSTON MANOR—†Woolsey, P. H. Co.
LOCKPORT—†Clifford, Jas. & Bro.
†Heary & McGrath
*McDonough, Mrs. John
†Murphy Bros.
*Whalen, Jos.
LONG ISLAND CITY—(See New York City,
Borough of Queens)
LYONS—†Sloan Bros.
MALONE—†Kelly, Jno.
MAMARONECK—†Brewer, R. G.
MATTEWAN—†Forrestal, Jas.
MECHANICSVILLE—*Oreutt & Porter Co.
(Doors Only)
MIDDLE GRANVILLE—Allen, G. Myron
MIDDLEPORT—*Rowley & Eddy
MIDDLETOWN—†Gordon & Gould
MILLERTON—†Beers & Trafford
MONTICELLO—†Allen, Wm. C.
†Smith, Isaac O.
MOOERS—*Knapp, C. L. & Son
MOUNT KISCO—†Turner, Jerry B.
†Young, Halstead & Co.
MOUNT VERNON—*Burton & Fenton
†Cronenberg, L. & Sons
†Weiss, Charles H.
†Wilson & Adams Co.
NEWARK—†Keener, S. N.

NEWBURGH—†Newburgh Lumber Co., 215
B'way
Newburgh Planing Mill Co., c Johnes &
S William
NEW ROCHELLE—Mahlstedt, J. A. Lumber
& Coal Co.
New Rochelle Coal & Lumber Co.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN — †Bessert, Louis & Son, 1335
Grand
†Brooklyn Fireproof Sash & Door Co., 97
Richardson
Brooklyn Lumber Co. (Wholesale Dealers),
458 Hamilton av
*Cropsey & Mitchell, Cropsey av & Bay
35th
†Curtis Bros. Lumber Co., Liberty av c Van-
sunderen av
†Gardner, David P. & Son, 49 Fleet pl
†Gass, John H. Co., 601 Sackett
†Gerard, G. H. Son & Co., 257 Greenpoint
†Grau, Richard, 68 Eagle av
†Hardy, Voorhees & Co., Met. av & New-
town
†Hawkins, Geo. A. & Co., 44 Court
†Hitchings, Ben G., E 34th nr Av H
†Keshin, Blitstein & Co., 250 Moore
†Levin & Kronenberg, 287 Vesta av
†Lockard & Blake, 371 Fulton
*Loomis, John S. Co., Baltic & Nevins
†Macaulay, C. R., 255 18th
†Mayer, Michael, 181 Moore
*Melsel, Danowitz & Co., 55 Eckford
*Morganthaler's, Jacob Sons, 633 Sackett
*National Fireproof Sash & Door Co., 250
†Newton, Albro J. Co., 528 Union Moore
†Nolte, Wm. H. (Est. of), 55 Bogart
†Orr, J. C. & Co., West & Java
†Stanley & Unckles, 292 Butler

Boroughs of Manhattan & Bronx.

NEW YORK—*Auderson & Co., 35 W 125th
†Appel, Chas., 210 Lafayette
†Bayer-Catton Co., 194 Lewis
†Bird, W. D., 42 W 67th
†Blanchard, J. F. Co., Fuller bldg
†Bronx Sash & Door Co., 100 Adams
†Carl, John H., 514 1st av
*Champion Fire Proof Door Co., 277 Rider
av
*Chautauqua Planing Mill Co., 5 Beekman
†Conklin, Alfred R., 249 E 139th
*Empire City Wood Working Co., B'way &
†Finn, Chas. F., 233 Canal W 131st
*Forbes, Jas. C., Walker av, Van Nest
*Hamden Lumber Co. (of Springfield,
Mass.), 1 Madison av
*Harlem River Lumber & Wood Working
Co., E 138th & Gerard av
*Haynes & Coryell, S Boulevard & 179th
†Hogan & Digeuno, 49 E 135th
†Howell & Lawrence, 1788 1st av
†Kohart, Frank C., 21 Park row
†Leslie, John, 138 W 15th
McConnell Mfg. Co., 160 5th av
†Marx & Jacobsen, Tompkins & Delancey
†More, M. E. & Co., 489 5th av
*Mott Haven Trim Mill, 249 E 138th
*Murray & Hill Co., 617 W 130th
†Nesbitt, D. M. Co., 116 Nassau
*Nesbitt, F. T. & Co., 116 Nassau
*N. Y. Carved Moulding Co., 3rd av &
139th
*N. Y. Moulding Mfg. Co., 1648 B'way
Niagara Wood Working Co., 159 E 88th
†O'Neill, Michael F., Walton & Cheever pl
†Paleus, H. W. Sons, Fuller bldg
*Pritchard, E. M. & Son Co., 138th & Mott
*Raabe, Henry & Sons, 321 W 64th
†Read, Charles, 406 W 30th
†Reeb & Dinkins, 18 B'way
†Reynolds, Charles E., 327 E 63d
†Richardson & Dutt, 789 3d av & 122 Elm
†Schaeffler, F. (Est. of), 533 W 34th
†Short, Thos. J., 280 9th av
†Terrell, Isaac H., 261 W 27th
†Thayer, T. W. & Co., 18 Broadway
Tide Water Bldg. Co., 1499 Broadway
Union Wood Working Co., 103 E 125th
Van Kannel Revolving Door Co., 524 E
134th
*Van Nest Woodworking Co., West Farms
rd, cor Van Nest av
Wright Lumber Co., 148 W 38th

Borough of Queens.

JAMAICA—†Carpenter, Jno. R. Co.
LONG ISLAND CITY—†Quinn, H. F. & Son
ROCKAWAY BEACH—†Crabbe, Charles
OZONE PARK—†Gillespie, Earl A.
METROPOLITAN—†Reich, Val. E.

Borough of Richmond.

PORT RICHMOND—†Mersereau, A. B. & Son
PRINCE BAY—†Graham, James
Sprague, Charles B.

(End of New York City)

NIAGARA FALLS—†Blows & Co.

†Haeberle Lumber Co.

†Steinbrenner, Carl

NORTH TONAWANDA—*Charlton, J. & T.

†Hoadley & Bennett

†Palmer, W. G.

*Thompson, Hubman & Fisher

NORWICH—†Scott, W. L. Lumber Co.

*Wheeler Co.

NYACK—†Gurnee, D.

OGDENSBURG—*Green, Landon A.

*Proctor Mfg. Co.

OLEAN—†Gillingham & Son

*Moore, E. R.

*Troy, Edw.

ONEIDA—†Marcellus, Geo. A.

Ruby, R. B. (Wholesale)

OSSING—†Terwilliger's, I. Son

†Washburn & Todd

OYSTER BAY—†Hendrickson, A. C. & E. N. Co.

OZONE PARK—(See New York City, Borough

PATCHOGUE—*Bailey, E. & Sons of Queens)

PATERSON—*Pendleton & Townsend

PEEKSKILL—†Barker, Asbury

*Britherthorn, Wm.

*Lamos, Charles A.

PENN YAN—*Patteson, W. M.

PERRY—*Andrus, David

PHOENIX—Phoenix Sliding Blind Co. (Blind

Tenoned Doors)

PLATTSBURG—*Purdy, F. M.

†Sowles Hardware Co.

PLEASANTVILLE—†Cornell, S. W.

PORT CHESTER—†Slater, Charles W.

PORT HENRY—†Wallace, Geo. W.

PORT JEFFERSON—†Loper Bros.

PORT JERVIS—†Cogo, J. M. & Co., Orchard

PORT RICHMOND—(See New York City, Borough

of Richmond)

POTTERSVILLE—†Hicks, H. J.

POUGHKEEPSIE—†Brooks & Co., 46 S Water

†Lumb, Geo. W. & Son, 23 N Water

†Lumb's, Levi Son, 55 Main

PRINCE BAY—(See New York City, Borough

of Richmond.)

REDWOOD—*Cook & Smith

RHINEBECK—†Ackert & Brown, 45 E Market

RIVERHEAD—Lane Bros.

†Skidmore, Charles

ROCHESTER—*Bantleon Bros. Co., 221 N

Water

*Chapman & Goetzman, River & N Water

*Crouch, Beaham, 99 West

†Evans, Chas. P., 7 Hill

Genesee Lumber Co., 45 Warehouse

Grauwiler, Jno. J., 9 Basin

*Ocorr & Rugg Co., N. Union & N. Y. C.

R. R.

Smith Sash & Door Co., 175 Exchange

Stalker, G. H., Platt & Allen

Vogel & Binder Co., 320 St. Paul

ROME—Beach Lumber Co.

Ccmstock, E., c George & Adams

RONQUITT—(See Kingston)

ROSLYN—†Hicks, John D. & Co.

ST. JOHNSVILLE—†Kneeskern, J. H. & Sons

SANDY CREEK—*Skinkie, A. C.

SANDY HILL—*Griffin Lumber Co.

†Kenyon Lumber Co.

SARATOGA SPRINGS—†Todd, E. R.

SCHENECTADY—†Van Voast, Albert & Sons,

SIDNEY—*Clark, G. A. 37 John

†Silver, M. L. & Co.

SINCLAIRVILLE—†Reed, R. & Co.

SKANEATELES—†Bench, J. & Son

†Schultz, J. L. & Co.

SUSPENSION BRIDGE—(See Niagara Falls)

SYRACUSE—†Grant's, Alex. Sons, 132 E Gene-

*Merriam Mfg. Co., 618 E Water see

†Wood Glass Co., 226 N Salina

TROY—*Madden Lumber Co., 599 1st av, Lans.

†Martin, Wm. E., Front nr Grand

TURIN—*Hughes, Hugh

UTICA—†Gibson, G. P. & Son, 718 Genesee

†Kellogg, Chas. C. & Sons Co., 40 Seneca

Thomas', Philip Sons, south of W. S. R. R.

WALDEN—†Dominick, D. C.

†Hasebrouck & Sloan

WALTON—†Stimpson, Edgar W.

WARRENSBURG—†Pasco, D. E.

WATERLOO—†Nugent & Co.

WATERTOWN—*Case & Folsom

†Charlebois Bros.

†Frost, John & Son

†Bohlin & McKeon

†Sloat & Greenleaf Lumber Co.

†White & Sullivan

WATERVLIET—*Young, J. T.

WATKINS—†Banks & Woodward

WEBSTER—*Leake, S. S.

†O'Dell Bros.

WEST NEW BRIGHTON—(See New York City,

Borough of Richmond)

WEST WINFIELD—†Weeks, Geo. S.

WHITEHALL—*Wilson, F. J.

WHITE PLAINS—†Clark, C. H. Co.

WHITESBORO—†Dentan & Waterbury

WILSON—†Dwight, A. N.

YONKERS—†De Angelis, Fred'k

*Lawrence & Conkling

*Mitchell, Saml. P. (Est. of)

*Yerks Co.

NORTH CAROLINA.

ASHEVILLE—*Jones, Wm. M. Lumber Co.

†Scott Lumber Co.

*Westall, W. H. & Co.

CHARLOTTE—*Carolina Mfg. Co.

†Lewis, J. W. & Co.

†Ward, W. W. & Co.

†Wearn, J. H. & Co.

†Withers, B. F.

DURHAM—†Mangum, F. R. & Co.

ELIZABETH CITY—†Sharber & White

GREENSBORO—*Cape Fear Mfg. Co.

GREENVILLE—*Greenville Mfg. Co.

HENDERSON—*Watkins, Jno. B.

HICKORY—Hickory Mfg. Co.

Hickory Novelty Works

HIGH POINT—*Snow Lumber Co.

NORTH WILKESBORO—*Wilkesboro Mfg. Co.

SANFORD—†Sanford Sash & Blind Co.

WILMINGTON—†Divine, M. W. & Co.

†Jacobl, N. Hardware Co.

WILSON—†Simms, W. W. Co.

WINSTON SALEM—†Smith-Phillips Lumber Co.

SOUTH DAKOTA.

FAFSGO—*Bowers Bros.

†Schlauser & Ostve

GRAND FORKS—†Robertson Retail Lumber Co

†St. Hilaire Lumber Co.

*Turner, Jas. & Sons

WAMPETON—†McCulloch & Robinson

OHIO.

AKRON—†Akron Lumber Co., 1027 S Main

†Ewing, L. D., 121 Kirkwood

†Frederick, U. G. Lumber Co., 213 Cherry

†Lyman Hawkins Lumber Co.

†Summit Lumber & Building Co., 120 W

†White Lumber Co., 212 River State

†Wilson, N. C. Lumber Co., 388 S Main

ALLIANCE—*Stroup, L.

*Weybrecht's, J. T. Sons

ASHLAND—†Myers, J. W. & Co.

*Shearer, Kagey & Co.

ASHTABULA—†Smith, J. F. & Co.

BELLAIRE—†Anderson & McGregor

*Dubois & McCoy

BELLEFONTAINE—†Dickinson, Mack & Co.

†Lesourd, A. & Sons

BEREA—†Holmes & Johnson

BOWLING GREEN—*Hankey Lumber Co.

BRIDGEPORT—†Scott Lumber Co.

BUCYRUS—†Roehr, C. Co.

*Vollrath, E. & O.

CADIZ—†Long, E. M. & Sons (Wholesale)

CAMBRIDGE—*Forney, C. W.

*Hoyle & Scott

CANAL DOVER—†Wentz, F. & Co.

CANTON—†Bernower, Phil J.

†Holwick, D. L. Lumber Co.

†Weaver Lumber Co.

†Wills Lumber Co.

CAREY—†Snyder, W. H.

CELINA—*Esty & Stephenson

CINCINNATI—†Bosken & Brechelt, 3408 War-

saw av

*Brethauer, G. J. Planing Mill Co., 2260

Bogen

*Cincinnati Sash & Door Co., 946 W 8th

*Dexter Lbr. Co., Mont'g av (Norwood)

†Doppes, J. B. & Sons, 1244 Gest

*Ferris, Chas. S., 250 McCullough

*Griffith, Jas. & Sons, Reading rd & 12th

*Maly Bros. (Ltd.), 717 Carr

*Mayer, Wm. Co., 644 W 3d

†Mills & Ott, 216 George

*Mills, Spellmire & Co., 652 W 3d

*Morrison & Snodgrass Co., 519 Reading rd

*Short, Chas. W., 259 Strader av

*Thom, John C. Co., 1215 W 8th

†Ward, R. G. & Co., Clark & Harriett

*Weber, Fred. & Bro., 4011 Cherry

CLEVELAND—†Bohm & Stuhr Lumber Co.,

6325 B'way

†Cleveland Lumber Co., 8617 Buckeye rd.

*Diamond Glass Co., 1452 25th S E

†Henderson, Fred L., 1804 E 55th, N E

*Lakewood Lumber Co., Berea rd nr De-

troit av, N W

*Marquard Sash & Door Mfg. Co., 307 Canal

rd, N W

*Ohio Sash & Door Co., 211 Prospect av,

N W

*Osborn & Flinkers, 10,217 Berea rd, N W

*Peters' Mill Work & Lumber Co., 1895 Car-

ter rd, N W

*Pfell, Chas. J. Co., 1905 W 3d, S W

*Potter, Teare & Co., 1918 Carter rd

†Saginaw Bay Co., 2106 W 3rd

†Standard Sash & Door Co., 5108 Euclid av

†Teachout, A. Co., 11722 Euclid av

*Trebing Mfg. Co., 1002 Center

†Williams Pivot Sash Co., 309 O'Brien

Zeit, William & Son, 1928 W 3d, S W

COLLEGE CORNERS—†Miller, Fred.

†Stewart, John H.

COLUMBUS—†Acorn Lumber Co., 130 E Rich

*Baumann, Ferd., 934 S 3d

*Bergin, M. J. Lumber Co., Spring c Denni-

son

*Columbus Lumber Co., 424 W Spring

*Columbus Planing Mill Co., 390 W Town

*Doddington, E. & Co., 447 W Broad

*Earl, Andrew, Water c Hickory

†Ewers Lumber Co., Broad & Mitchell

†Hildreth & Martin Lumber Co., 157 W

*Jones, E. J. & Co., 406 W Spring State

†Knox, Jos. J. Lumber Co., 405 Cleveland av

*Sager, A. C., Town c Belle

*Snider, J. J. Lumber Co., Taylor av

†South Side Lumber Co., 1929 S High

*Sowers-Leach Lumber Co., 483 Nellston

*Taylor, Wm. M. Mantel & Grate Co., W

Fulton & Canal

†Teachout Sash, Door & Glass Co., 98 W

†Zinn, J. H., Jr., 2556 N High Spring

CUYAHOGA FALLS—†Bates, A. R. & Co.

*Walsh Milling Co.

DAYTON—*Bouck, O. L.

†Davies, S. W., 1013 E 5th

*Dayton Lumber & Mfg. Co., c Clinton &

Bacon

†Gebhart, Alex. & Co., Wayne & Railroad

†Harbaugh & Mather, 350 S Mound

†Kuntz-Johnson Co., Mead nr Perry

*Requarth, F. A. Co., cor Sears & Monu-

ment

Rinderknecht, G. C. & Son, 362 E Huff-

man av

*Rouzer, John Co., 73 S Wyandot

NEWARK—†Smith, P. & Sons Lumber Co., 65 S 2d
 NEW PHILADELPHIA—†Nagley, John Lumber Co.
 NEW RICHMOND—Fridman Lumber Co.
 NILES—†Niles Lumber Co.
 NORWALK—*Bostwick-Godell Co. (Venetian Blinds Only)
 ORRVILLE—†Kinney & Sons
 PAULDING—†Finan, M.
 PIQUA—†Wright-Kuntz Lumber Co.
 †Wood, C. L.
 POMEROY—†Genheimer, Jno.
 SANDUSKY—*Sandusky Sash, Door & Lumber Schoepfle Mfg. & Lumber Co. Co.
 SPRINGFIELD—†Bruln's Lumber Co., 85 East †Lion Hardware Co., 80 E Main
 †Rawlins, Albert M., Lincoln av c Main
 *Springfield Planing Mill & Lumber Co., 335 W Columbia
 STEUBENVILLE—†Alexander, W. J.
 *McFeeley Bros.
 TIFFIN—*Enterprise Mfg. Co.
 *Matblas, J. B.
 TOLEDO—*Campbell Co., 1100 Hoag
 *East Side Lumber Co., Starr av & Belt Line R R
 *Goodsell Mfg. Co., Bancroft & M C R R
 *Goulet & Co., 125 S St. Clair
 *Maclaren & Sprague Lumber Co., 202 S St Clair
 *Peter, William (Est. of), 197 St. Clair
 *Scroeder, C. H. Co., c S Erie & Kraus
 *Western Mfg. Co., Water & Vine
 †West Toledo Lumber Co., Phillips av
 *Witker Mfg. Co., Jackson c Water
 TROY—†Francis-Clenim & Co.
 UPPER SANDUSKY—*Shealy & Stephan
 URBANA—†Hibbrell, H. M.
 VERMILION—*Bachman, Conrad
 WARREN—Warren Mfg. Co.
 *Western Reserve Lumber Co.
 WILKESVILLE—*Strong, H. B.
 WILLOUGHBY—†Jenkins, Chas. C.
 WILMINGTON—Fisher Mfg. & Fuel Co.
 *Shepherd & Son
 WOOSTER—†Curry, D. C. Lumber Co.
 XENIA—†McDowell & Torrence Lumber Co.
 YOUNGSTOWN—*Dingeldy, Geo. H. (Est. of).
 *Heller Bros. Co., 346 S Phelps 35 Basin
 †Hoffman, Frederick, 436 W Federal
 *Huffman Bros., Federal c Reserve
 *Youngstown Lumber Co., 726 Mahoning av
 ZANESVILLE—*Curtis & Co., 25 Sth
 †Drake, Thos. Lumber Co., Lee & Amelia
 *Herdman Sash, Door & Lumber Co.

OKLAHOMA.

OKLAHOMA—†Curtis & Gartside Co.
 †Oklahoma Sash & Door Co.

OREGON.

BAKER CITY—*Bennett & Son
 *Shockey & McMurren Lumber Co.
 CANYON CITY—*Southworth, W. S.
 DALLAS—*Coad, F. J.
 EUGENE—*Midgley, George
 INDEPENDENCE—*Bobannon, John S.
 KLAMATH—FALLS—*Goeller, J. F.
 MYRTLE POINT—†Hnling, Lundy & Son
 NORTH BEND—*North Bend Mfg. Co.
 PENDLETON—*Forster, Robert
 PORTLAND—*Ainslie, Geo. & Co., Petty-
 †Bench, F. E. & Co., 135 1st grove c 15th
 †Central Door & Lumber Co.
 *Nicolai Neppach Co., 66 2d, N
 *North Pacific Lumber Co., Thurman, N W cor 22d
 *Northwest Door Co., River c Albina av
 *Oregon Planing Mills Co., 421 19th
 Pacific Coast Door Co., 972 Macadam
 *Portland Mill & Fixture Co., 441 E. Morrison
 *Portland Sash & Door Co., 230 Front
 *Schmitt, Frank & Co., 195 E 8th
 SILVERTON—*Potter, P. W. & Co.

PENNSYLVANIA.

ALLEGHENY—*Little, Sam'l J. Planing Mill Co., 402 North av
 *Meess, J. A. & Son, Reichenbach c Unity
 †Munn Lumber Co., 219 Lacock
 *Schwerd, A. F., 3556 McClure av
 *Simon's, M. Sons, Robinson c Anderson
 ALLENTOWN—*Butz, Fred'k & Co., Howard c
 *Kern & Bro.
 †Ritter & Smith
 *Well, F. W. & Co., 1031 Linden
 ALTOONA—†Bucher, Adam, 7th av c 4th
 †Elder & Cassidy
 †Orr, J. C. & Son
 ARDMORE—†Smiedley & Mehl
 ASHLAND—*Bright, H. F.

BANGOR—*Bangor Lumber & Mfg. Co.
 *Wise Lumber & Coal Co.
 BEAVER FALLS—*Beaver Falls Planing Mill & Lumber Co.
 *Commercial Sash & Door Co.
 *Mitchell, J. S. & Sons.
 BEDFORD—†Arnold, W. S.
 BELLE VERNON—*Belle Vernon Saw & Planing Mill Co.
 BENNETT—*Bennett Lumber & Mfg. Co.
 BENTON—*Smith, R. T. & Son
 BETHLEHEM—†Brown-Borhek Lumber & Coal Co. (Ltd.), W B
 BIRDSBORO—†Slipp, John W.
 BLOOMSBURG—†Creasy & Wells
 BRADDOCK—†Price & Alman
 BRADFORD—†Kent, P. A.
 †Miller, A. & Sons Lumber Co.
 †Morrison & Co.
 BRISTOL—†Pelree & Williams
 BROOKVILLE—Anderson Lumber Co.
 *Hall & Lucas
 BUTLER—†Wick, L. C.
 CARBONDALE—†Mills, F. W. & Co.
 †Tiffany, A. E.
 CARLISLE—Beeten Lumber & Mfg. Co.
 CATASAUQUE—*Wint, F. W. Co. (Ltd.)
 CATAWISSA—†Harder, C. W.
 CHESTER—†Glauser, Stacy G. & Son
 *Hamilton, John
 CHRISTIANA—*Davis, Harry
 COLUMBIA—†Ferry, John D.
 CONNELLSVILLE—†Fayette Lumber Co.
 CONSHOHOCKEN—†Jones, Wm. Potts
 *Miller, A. L. & Co.
 CORRY—*Chautauqua Lumber Co.
 DALTON—†Francis, F. M.
 DANVILLE—†Reifsnnyder, G. F.
 †Trumbower & Werkhiser
 DARBY—†Gotsball & Morgan
 DOYLESTOWN—†Rotzell & Raike
 DUBOIS—†Mouthrop Bros.
 *Pifer, G. W. & Sons
 EASTON—†Zearfoss-Hilliard Lumber Co.
 ELIZABETHVILLE—*Buffington, I. T.
 EMLENTON—*Sloan, U.
 ERIE—†Carroll, Geo. & Bro. Co., ft French
 *Constable Bros. Co., 5th c Sasafra
 *Deming, Alton A.
 *Felholm, Lyman, 16th & State
 *Johnson, Jas. D. & Co., 19th & Parade
 †Schlosser, David & Sons, 14th & French
 *Schroeck, Adolph, 906 E 11th
 †Shenk, Henry Co., 12th & Sasafra
 EVERETT—Cottage Planing Mill Co.
 FALLSTON—†Burns, H. M.
 FRANKLIN—†Ramsdale, G. H.
 GETTYSBURG—*Stallsmith, Geo. W.
 GLEN ROCK—*Glen Mfg. Co.
 GREENVILLE—†Helfman Bros.
 HALLSTEAD—†Roosa, E. H. B.
 HANOVER—*Mouil, C. & Co.
 *Rohrbauz, Jno. F.
 HARRISBURG—*Boas, D. D. (Est. of)
 †Central Mill & Lumber Co.
 †Miller, Chas. H.
 HAZLETON—†Frederick, S. Y.
 HICKORY—†McPeak, W. H.
 HOMESTEAD—*Feath & Kerr
 †Gordon & Co.
 *Hall, G. M. Co.
 HONESDALE—†Watts, Graham
 INDIANA—†Hastings, John S.
 JEANETTE—Jeanette Planing Mill Co.
 KINGSTON—†Kingston Lumber Co.
 †Roat, A. J.
 KITTANNING—†Claypool, J. S. Lumber Co.
 †Helfman Bros.
 KNOXVILLE—*Edgecomb, I. M. Sons
 LANCASTER—Johnson, E. N. & Co.
 Keystone Planing Mill
 Lancaster Planing Mill Co.
 *Wohlens, Wm. & Son, 417 N Mulberry
 LANESDALE—†Godshalk, Chas. D.
 LATROBE—†Anderson, Geo. C. & Sons (Inc.)
 †Toner & Baker
 LEBANON—*Fox & Graeff
 *Miller Bros.
 *Reinoehl Lumber Co.
 LEHIGHTON—†Leighton Lumber Co.
 LEWISBURG—*Nesbit, D. M. Co.
 LOCK HAVEN—*Hipple's Estate
 McKEESPORT—†Reynolds Lumber Co.
 MANSFIELD—†Doane, Edw. & Co.
 MARIETTA—†Cussal, A. N. & Son
 MA'CH CHUNK—†Neast, Chas. & Co.
 MEADVILLE—†Cutter, G. H. Lumber Co.
 †Harper, Walter G. Lumber Co.
 †Smith, L. F. Lumber Co.
 MERCER—*†Mercer Milling & Lumber Co. (Ltd.)
 †Zahnister, M. C.
 MIFFLINBURG—*Miller, Enoch
 MILLERSBURG—†Douden, A.
 MILTON—*Clinger, D. & Sons.
 *Fetter, Jacob

MONONGAHELA CITY—†Stephens Bros.
 MONTGOMERY—*Montgomery Door & Sash Co.
 MOSCOW—*Van Brunt, C. P.
 MOUNT CARMEL—*Gelger, Gibson & Co.
 MOUNT PLEASANT—*Husband Lumber Co.
 NAZARETH—*Wunderly Bros.
 NEW BETHLEHEM—*Andrew's, C. E. Lumber Co.
 NEW BRIGHTON—*McDaniel, R. B. Co.
 †Martsolf Bros.
 NEW CASTLE—*Acme Lumber Co., 69 Pittsburg
 †Marshall Bros.
 †New Castle Lumber & Construction Co.
 NEWTOWN—*Watson, A. W. & W. M.
 NICHOLSON—†Rought, G. G.
 NORRISTOWN—†Grater-Bodey Co. (Inc.)
 NORTH WALES—†Shearer, A. K. & Son
 *Weber, O. M. & Son
 OIL CITY—†Caldwell Lumber Co.
 †Earp & Kelley Lumber Co.
 PARKESBURG—*Reid, Adam P.
 PEN ARGYL—†Fitzgerald, Speer Co.
 PENNSBURG—Pennsburg Mfg. Co.
 PHILADELPHIA—*Alcott-Ross Co., 2917 N Broad
 †Allen, Elwood (Est. of) Trenton av. & Ann
 *Berger, Gustav, 1143 N Front
 *Brown & Watson, 305 Montrose
 *Fein, Chas. F., 151 W. Horster Gtn
 *Fite & Arhelo Co., 2431 Glenwood av
 *Gerry, F. R. Co., 1835 Market
 *Gibson, W. E., 100 N 50th
 *Hoffman Sash & Door Co., 1623 Vine
 †Kyle, Geo., Island rd c Grays av
 *Parker, John & Son, 16th c Flitzwater
 *Swenk, Benson & Co. (Ltd.), 2305 Cherry
 *Underwood, Wm. I. & Co., Kensington av & Womrath
 *Van Kannel Revolving Door Co., Hale bldg
 *Watson & Robinson, 49 Queen, Gtn.
 *Witt, A. & Son, 723 N. Front
 PHOENIXVILLE—*Keely, Wm. P.
 PICTURE ROCKS—*Fry & Son
 PITTSBURG—Commercial Sash & Door Co., Liberty av & 33d
 Curtis & Yale Co. (Wholesale Mfrs.), Arrott bldg
 *Diebold Lumber & Mfg. Co., 99 Wabash
 *Dubarry, G. D. & Co., 41st & A. V. R. R.
 *Eller Lumber & Mill Co., S. 23d & Wharton
 †Gearing, H. C., 2000 Sidney
 *Hill, Edwin M., 2061 Penna av
 †Munhall, R. J. Lumber Co., 41 S 22d
 *Penna. Door & Sash Co., 906 2d av
 *Pittsburg Door & Sash Co., 210 Sagamore
 *Pittsburg Hardwood Door Co., Park bldg
 PITTSTON—*Dershiner & Griffin
 Patterson, J. E. & Co.
 POTTSTOWN—†Healy, Jos. A. & Bro.
 Kline & Price
 POTTSVILLE—†Ryon, Jno. P.
 Sailor Planing Mill & Lumber Co.
 *Wertley, Walter
 QUAKERTOWN—Stoneboch, Howard L.
 READING—†Rummell, H. F. L.
 RICEVILLE—†Westate, Arthur & Son
 RIDGWAY—*Hyde, Murphy & Co. (Wholesale)
 ROCHESTER—†Miller, Wm. & Sons
 ROCKWOOD—*Growall, A. J.
 ROYERSFORD—*Bush Bros.
 ST. MARYS—*Schautt Bros.
 SCRANTON—Ansley Lumber Mfg. Co., 801
 †Benore, John, 706 Scranton
 Peck-Lumber Mfg. Co., 101 E Market
 *Washburn, Williams & Co.
 SHARON—*Wallis & Carley
 SHARPSBURG—†Saint, W. J. T.
 SOUDERTON—*Hernsing & Son
 STEELTON—Steelton Planing Mill Co.
 SUNBURY—†Shupson, John & Son
 TAYLOR—†Ward, C. F.
 TAMAOUA—*Weaver, Edw. E.
 TITUSVILLE—†Reuting, D. F.
 TROY—†Case, Chas. J.
 TYRONE—*Beyer, F. D. & Co.
 *McCamant, A. H.
 UNIONTOWN—Huston, John L.
 WARREN—*Newmaker & Reed
 *Rogers Lbr. Co.
 †Weimore, L. D. Co.
 WASHINGTON—*Walker & Slater
 WATSONTOWN—*Watson Door & Sash Co.
 WAYNESBORO—*Hess, D. W.
 WAYNESBURG—*Fink, J. M.
 WEST CHESTER—*Black, S. C.
 WEST NEWTON—†Finley & Campbell
 †Scholl, M. F.
 WILKES-BARRE—*Lee, Conrad
 *Shepherd, W. H. & Sons
 WILKINSBURG—*Young, W. F. Co.
 WILLIAMSPORT—*Brown, Clark & Howe
 *Crooks, W. D.
 *Sones, C. W.
 Williamport Planing Mill Co.
 Wood Working & Stair Building Co.

YORK—*Beitzel, Jacob & Sons
†Billmeyer & Small Co.
†Gilbert, Geo. W.
†Noss, Herman & Sons
†Oermann & Blachmann
†Seuerlist's, Jacob Sons

RHODE ISLAND.

BRISTOL—†Wardwell Lumber Co.
PAWTUCKET—†Cottrell, John T. Co.
†Pawtucket Sash & Blind Co., 24 Mason
†Tingley, Frank E., Broad & Olive
PROVIDENCE—†Arnold, Wm. E., 326 Dean
*Dodge, J. C. & Son, 530 S Main
†D. S. B. Co., 255 Eddy
*Evans, H. R. & Son, 8 Mathewson
†Harris, Wm. M., Jr., 363 Charles
†Lausing, Geo. D. & Son, 32 Branch av
*Learned, A. C. J. & Co., 5 Charles
†McGowan, Jas. & Co., 14 Exchange pl
*Perkins Bros., 970 Westminster
†Providence Sash & Blind Co., 301 Broad
*Smith, E. E. & Co., 136 Rhodes
*Tingley, Frank E., Broad & Olive
*Vaughn, L. Co.
WESTERLY—†Babcock & Wilcox
†Maxson & Co.
†Sherman, R. A. & Sons
WOONSOCKET—†City Lumber Co.
†Robinson, A. M.

SOUTH CAROLINA.

ANDERSON—*Barton, J. E.
†Brissey, W. L.
*Townsend, H. C.
BEAUFORT—†Christensen, N. & Sons
CHARLESTON—†Hacker, Geo. S. & Sons
*Wetherhorn & Fischer
CHERAW—*Cheraw Door & Sash Co.
COLUMBIA—†Brown, C. O. & Bro.
†Shand Builders' Supply Co.
†Thomas, H. Co.
FERGUSON—†Santee River Cypress Lumber
GREENVILLE—†Gower Supply Co. Co
†Morgan & Austin
SPARTANBURG—*Morgan Wood & Iron
†Pearson, J. H. Works
SUMTER—*Kennedy Building & Supply Co.
VAIRVILLE—*Ginu, E. R.

SOUTH DAKOTA.

DEADWOOD—†Fish & Hunter Co.
†Stearns Co.
MADISON—Colman, C. L. Lumber Co.
MITCHELL—†Burns, Robert Lumber Co.
†Davis & Daniels
SIOUX FALLS—†Ross, H. W. Lumber Co.
Sioux Falls Lumber Co.
*†Tenthill, J. W. Lumber Co.
STURGIS—†Anderson, H. O. & Son
*Grains, Wm.
†Voorhees, S. T.

TENNESSEE.

BRISTOL—*Bristol Door & Lbr. Co.
*Cloyd Bros.
*McCrary Lbr. Co.
*Stone-Huling Lbr. Co.
CHATTANOOGA—*Central Mfg. Co.
*Chattanooga Lumber Co., John c N. C. &
St. L. Ry
*East Tennessee Lumber Mfg. Co., Har-
rison av & T. V. & G. R. R
*Loomis & Hart Mfg. Co., 719 E. 9th
Magill Hardware Co., 729 Market
CLARKSVILLE—*Smith, F. L.
FAYETTEVILLE—*Waggoner & Nuttall
*Williams-Hass Lumber Co.
GALLATIN—Simpson, S. R. & Son
GREENEVILLE—†Adams, T. T.
GREENFIELD—†Dudley, J. W.
HARRIMAN—Flaunders Mfg. Co.
†Watts, J. H.
HUMBOLDT—*Campbell, J. E.
†Jerrill, B. C. & Co.
KNOXVILLE—*Atkin, C. B.
*Cooley & Son
*Rose, D. M. & Co.
MEMPHIS—†Central Lumber Co.
*Cole Mfg. Co.
†Darnell-Thenzer Lumber Co.
*Friedel, P. R. & Co.
†Jordan, J. P. & Co.
*Moore & McFerron, Henry & Wolf River
†Southern Lumber Co.
†Tennessee Lumber Co.
†Williams & Co.
MORRISTOWN—†East Tennessee Wood Work
NASHVILLE—†Bensley & Sons ing Co
†Cohn & Goldberg
*Davidson-Benedict Co.

*De Hart, I. N. & Son
*McGinnis & Co.
*Moore, G. & Sons
†Norvell & Wallace, 601 Broad
†Riddle Co.

TEXAS.

ALBANY—†Rockwell Bros. & Co.
AUSTIN—†Calcasieu Lumber Co., 311 W 2d
†Haldeman & Co., 118 Congress
†Nulle & Co., 609 E 6th
BEAUMONT—*Georgs, C. W. Mfg. Co.
CLARKSVILLE—†Clarksville Lumber Co.
CLEBURNE—Conway-Craig Lumber Co.
COLORADO—†Burton-Lingo Co.
†Roe, A. J.
CORPUS CHRISTI—†Sibbury Lumber Co.
CORSICANA—*Clopton, B. M., Jr.
†Doke, F. Y. & Son
DALLAS—†Campbell-Harriss Lumber Co.
Conkling Planing Mill Co.
†Griffiths & Co., 139 N Lamar
*Hillingworth, W., 244 Cochran
†Mayfield, J. S. Lumber Co., Ross av c Mag-
DENISON—†Lingo-Leeper Lumber Co. nolla
DUBLIN—†Smith, H. A. & Co.
†Spencer, H. R.
EL PASO—†Bassett, O. T. & Co. (Inc.)
†Burton, Lugo & Co.
FLATONIA—†Cockrill, Milton
*Eidelbach, A.
FORT WORTH—†Armstrong, J. H. & Co.
*Brown, R. L.
*Buckley Planing Mill
†Cameron, Wm. & Co.
†Darnell Lumber Co.
*Lusher & Rockett
*Owens, G. W. Lumber Co.
†Quarles, J. E. Lumber Co.
†Ripley, J. W. & Son
†Roe, A. J.
†Smith, Cicero Lumber Co.
GALVESTON—*Beaumont Saw Mill Co.
†Moore & Goodman, 2827 Mechanic
†Schadt, Wm., 2801 Mechanic
*Smith, J. F. & Bro.
†Wilson, D. M. & Co., 3428 Av N
HALLETTSVILLE—†Hill, T. A. & Son
HOUSTON—*Bering Mfg. Co.
†Burton Lumber Co.
†Central Lumber Co.
*House, Henry
*Houston Co-Operative Mfg. Co.
†Jones, Jesse H. & Co.
†Rice, Allen Waples Co.
†South Texas Lumber Co.
*Ware, Wm. & Co.
KERRVILLE—†Kemschell, Henry
LAREDO—†Pfeiffer, Geo. & Co.
MARSHALL—*Forsland, Wm.
NAVASOTA—*Yonens, J. & Co.
ORANGE—*Miller-Link Lumber Co.
PITTSBURG—†Robinson, J. E.
SAN ANTONIO—†Beitel Lumber Co.
†Hans, E.
†Steves, Ed. & Sons
†West End Lumber Co.
SAN MARCOS—†Mead, C. G.
SIERRA—†Fielder, A. A. Lumber Co.
†Lyon, O. T. & Son
†Wilson, J. B. & Co.
†Wylie, Wm. T.
SWEET WATER—†Wilkinson, O. L.
TAYLOR—†Thompson, J. A.
TEXARKANA—†Hoffman Hardware Co.
VICTORIA—*Bailey Mills Co.
WACO—†Brazleton & Johnson (Wholesale)
*Cameron, Wm. & Co.
WAXAHACHIE—†Timmons, H. D. Lumber Co.
WILLS POINT—†Matthews, N. A. Lumber Co.

UTAH.

OGDEN—†Belknap, H.
†Eccles Lumber Co., 154 24th
*Humphries, C. J., 202 21st
SALT LAKE CITY—†Asper, Noall & Co., 151
W North Temple
Commerelal Mill & Bullding Co., 141 3d, W
†Felt, Geo. F. Lumber Co., State c 8th
†Morrison, Merrill & Co., 241 N 3d, W E
†Stewart, J. J., 205 S W Temple

VERMONT.

ARLINGTON—†Lathrop, E. M.
BARRE—†Allen, Stillman D.
BARTON—†Drew, G. A.
BELLOWS FALLS—*Ramsay, R. H.
BENNINGTON—*Bingham, Jos. B.
BRANDON—†Gipson, H. M.

BRATTLESBORO—*Holden & Martin
†Mellen, J. E.
†Robbins & Cowles
BURLINGTON—†Booth, J. R.
*Burlington Venetian Blind Co.
*Champlain Mfg. Co.
*Morgan Bros.
†Spear Bros.
DERBY—*Albee, A. J.
ENOSBURG FALLS—*Manley, A. H.
HARTLAND—†Martlu, A. W.
†Martin, F. P.
MIDDLEBURY—*Rogers & Wells
MONTPELIER—†Brooks, Jno. V.
NEWPORT—†White, A. J. & Son
POULTNEY—†Ripley Lumber Co.
RANDOLPH—*Emerson, E. F. Co.
RICHFORD—†Impey, W. M.
*Sweat-Comings Co.
RUTLAND—†Chaffee, F. Sons, 321 West
†Noyes, H. F., 127 State
ST. JOHNSBURY—†Bragg, Alfred L.
†Caldbeck, M. J. & Son
SOUTH SHAFESBURY—*Eagle Square Mfg.
STOWE—†Straw, John Co.
SWANTON—†Pronty, E. M.
VERGENNES—*Cotey, L. C. & Son
*Vergennes Mfg. Co.
WEST DANVILLE—†Merrill, Augustus W.

VIRGINIA.

ALEXANDRIA—*Aitcheson & Bro.
*Smoot & Co.
BLACKSTONE—*Blackstone Mfg. Co.
CHARLOTTESVILLE—*Charlottesville Lum-
ber Co.
*King Lumber Co.
DANVILLE—†Anderson, R. I. Co.
*Danville Lumber & Mfg. Co.
*Heidelbach & Penn
HAMPTON—*Hampton Sash & Door Mfg. Co.
†Hesselfinger, Jacob
HARRISONBURG—†Bucher, Wm. M. & Son
LYNCHBURG—†Adams-Monroe Mfg. Co.
†Hutter, C. S.
*Ross, E. E.
†Taylor, W. O.
MANCHESTER—†Woodward & Son
NEWPORT NEWS—†James River Lumber &
Supply Co.
†Porch & Co.
†Richardson, R. E.
†Weaver Bros.
NORFOLK—†Clark, Frank T. Co. (Ltd.)
†Nash, C. A. & Sou
*Watkins, E. A. & Bros.
†White Hardware Co.
PETERSBURG—†Hargrave, W. T.
†Jefferson, T. J.
†Marks, L. L. Lumber & Supply Co.
PORTSMOUTH—†Hart & Watts
RICHMOND—†Baldwin & Brown, 1557 E Main
*Hardwicke, Chas. W. & Co., 18th c Cary
†Heppert, Jos., 906 Catherine
*Miller & Miller 324 S 6th
*Montague Mfg. Co., 400 S 9th
*Sittinger-Carney-Davis Co., 2001 E Frank-
lin
*Stugg, Thos. C.
*Whitehurst, W. J.
†Woodward & Son, 330 S 9th
ROANOKE—†Catogul Bros., Campbell av c 3d,
S E.
*Central Mfg. Co., Shenandoah av c 2d
Exchange Lumber Co., 15 2d, S W
†Wilkinson, J. H.
SOUTH BOSTON—†Penick, R. A. & Son
STANTON—†Livick, A. J.
†Worthington Hardware Co.
SUFFOLK—†Allen, R. R.
†Folk, E. L. & Co.
WARRENTON—†Wood, D. P. & Co.
WOODSTOCK—*Fravel, Jos.
WYTHEVILLE—Wytheville Mfg. Co.

WASHINGTON.

BALLARD—*Rines Mfg. Co.
BELLINGHAM—*Bay City Furniture Co.
*Bay City Sash & Door Factory
†Munro, Blake & Haskell
*Whitcom Falls Mill Co.
*Whitcom Sash & Door Co.
BRYANT—*Bryant Lumber & Shingle Mill Co.
CHEHALIS—*Chehalis Fir Door Co.
CENTRALIA—*Harrn, Frank D.
CHENEY—†Battelle, Chas. A.
CONNELL—†Myer, C. H.
DAVENPORT—†Baske & Hnesmann
DAYTON—†Dayton Lumber Co.
ELMA—†Minard, E. L. & Co.
EVERETT—*Robinson Mfg. Co.
*Everett Sash & Door Co.
*Wheelhan-Weidauer Co.

HOQUIAM—*Hoquiam Sash & Door Co.
MANETTE—*Parks, W. A.
MARYSVILLE—*Krusse Bros. & Norton
MONROE—*Wagner & Wilson (Inc.), (Red Cedar, Wholesale Mfrs.)

NORTH YAKIMA—*Howard, A. E.
OAKDALE—*Madison Lumber Co.
OLYMPIA—*Olympia Door Co.
PORT ANGELES—*Martin, Jno. M.
PORT TOWNSEND—*Quimper Mfg. Co.
PRESCOTT—*Geyer, John
SEATTLE—*Almslie-Boyd Co., Plne & 6th av
*Argo Mfg. Co., Spokane av & East Waterway

*Brace & Hegert Mill Co., Westlake av & Mercer
*Bryant Lumber & Shingle Mill Co., Fremont

*Kramer & Fisher, 1445 Western av
*Lake Washington Mill Co., 834 31st av S
*Lewis & Tucker, 537 Westlake av
*Nelle & Englebrecht, 82 W. Columbia
*Nordquist, Edberg & Nelson, 41 Aetna
*Richardson & Elmer Co., 619 Pine
*Slocum, E. E., 815 1st av, S
*Stetson & Post Mill Co., Water front & Weller
*Uphus, A. J. & Co.
*Vetter, Otto, 1901 East Lake av
*Western Mill Factory, Terry av Mercer
*Williams, O. B., 1010 Wester av
SNOHOMISH—*Morgan Bros.
SOUTH BEND—*Cameron, E. H.
SPOKANE—*Dean Lumber & Fuel Co., Reagal & S. F. & N. Tracks

Eastern Lumber Co.
Hoag, Geo. W. Lumber Co.
*Holland-Horr Mill Co.
*Luratsch & Doley Milling Co.
*King Sash, Door & Lumber Co.
Petersen, H. J. Lumber Co.
*Sexton, J. F. & Co.
*Spokane Sash & Door Co.
*Springston Lumber Co.
*Washington Mill Co.
TACOMA—*East Tacoma Mfg. Co.
*Fuller, W. P. & Co.
*Peterman Mfg. Co.
*Todd, J. L. Lumber Co.
*Washington Mfg. Co.
*Washington, Mfg. Co., 720 Pacific av
*Wheeler, Osgood Co. (Red Cedar, Wholesale Mfrs.)
WALLA WALLA—*City Lumber Yard & *Kent Lumber Co., Planing Mill
*Stack, John
*Walla Walla Lumber Co.
*Whitehouse-Crawford Co.

WEST VIRGINIA.

BLUEFIELD—*Saxon Lime & Lumber Co.
CHARLESTON—*Gates, L. C.
CHARLESTOWN—*Phillips', Wm. Sons
CLARKSBURG—*Williams & Davidson Co.
FAIRMOUNT—*Dickerson Building Supply Co.
HUNTINGTON—*Emmons-Hawkins Hdw. Co.
MORGANTOWN—*Morgantown Planing Mill
WHEELING—*Beltz, J. W. Sons Co. Co.
*Chapman, W. H. & Sons
*Killeves Lumber Co.
*Willson, W. A. & Sons
*Wood, W. W.

WISCONSIN.

APPLETON—*Miller Lumber Co.
*Schlafer Hardware Co.
*Standard Mfg. Co.
ASHLAND—*Scott-Taylor Co.
BAGLEY—*Brodt, T. E.
BEAVER DAM—*Roedel & Jacobs
BELOIT—*Cunningham Bros.
BLACK RIVER FALLS—*McGillivray, J. J.
BRILLION—*Brillion Lumber Co.
CEDARBURG—*Hilgen Mfg. Co.
CHILTON—*Dorschel, Schultz & Co.
CHIPPEWA FALLS—*Stanley, F. G. & C. A.
CLINTONVILLE—*Rohrer, D. J.
EAU CLAIRE—*Fish, E. M. & Co.
*Hoepfner, Bartlett & Co.
FOND DU LAC—*Moore & Galloway Lumber Co.
*Steenberg, O. C. Co.
FOX LAKE—*Eggleston & Rodger
GREEN BAY—*Cooke, W. D.
*Green Bay Planing Mill Co.
HARTFORD—*Denison-Liver & Coerper
*Hartford Lumber Co.
HAYWARD—*North Wisconsin Lbr. & Mfg. Co.
HELENVILLE—*Reul Bros.
JANESVILLE—Cullen, J. B. Co.
*Fifeled Bros. Lumber Co.
KAUKAUNA—*Kaukauna Lumber & Mfg. Co.
KENOSHA—*Grant, Mrs. Co.
*Kenosha Sash & Door Co.
KEWAUNEE—*Borgman, Jno. M.

LA CROSSE—*Colman, C. L. Lumber Co.
*Kuhn, R. C. Sash & Door Co.
*Segelke & Kohlhaas Mfg. Co.
*Trow, A. S. & Co.

LAKE GENEVA—*Wilbur Lumber Co.
MADISON—*Brittingham & Hlxon Lumber Co.
*Frederickson, A. D. & J. V.
*Silbernagel, J. J.
Strack Mfg. Co.

MANAWA—*Davids & Kinsman
*Little Wolf River Lumber Co.
MANITOWOC—*Manitowoc Building Supply Co.
MARINETTE—*Linden & Miller
*Marinette Planing Mill Co.
MARSHFIELD—*Bille, Hans
MENASHA—*Menasha Mfg. Co.
MERRILL—*Anson-Hlxon Sash & Door Co.
*Wright, H. W. Lumber Co.
MILWAUKEE—*Badger Sash & Door Co., 592 Island av

*Butter, Gustav A., 603 Mitchell
*Conway Veneered Door & Mantel Co., St. Paul av ft 20th
*Cream City Sash & Door Co. (Wholesale Mfrs.), 7th av & Park
*Curtis & Yale Co., 204 Grand av
*Gruhl Sash & Door Co., Stewart nr Klinklinne av
*Interior Woodwork Co., 539 Park
*Meckelburg, A. F. Sash & Door Co., 760 31st

*Pederson & Grobben, 598 National av
*Phenix Mfg. Co., Humboldt av & Center
*Poppert, Geo. Mfg. Co., 417 Poplar
*Rockwell Mfg. Co. (Wholesale Mfrs.)
*Schmidt, W. H. & Sons, 305 3d av
*Wilbur Lumber Co., Pabst bldg
*Willer Mfg. Co., 313 Cedar

MONROE—*Monroe Planing Mill Co.
NEW RICHMOND—*Jagger, H. M.
*Willow River Lumber Co.

OMRO—*Morton, C. C. & Co.
OSHKOSH—*Campbell & Cameron Co.
*Foster, Lothman Mills (Wholesale)
*Gould Mfg. Co. (Wholesale)
*McMillen, R. Co. (Wholesale)
*Morgan Co. (Sash, Open, Glazed; Doors, Veneered Doors, Blinds, Shutters)

*Paine Lumber Co. (Wholesale)
*Radford Bros. & Co. (Wholesale)
*Starkweather, R. R. Co.
PRINCETON—*Yahr, F. J.

RACINE—*Belle City Sash & Door Co.
*Driver, Thos. & Sons Mfg. Co.
*Weber-Bahnemann Co.

RHINELANDER—*Lewis Hardware Co.
RICE LAKE—*Rice Lake Mfg. Co.

RIPON—*Horner & Middleton
Ripon Veneer & Box Works (C. T. Timm)
SAUK CITY—*Laehmund, P. & Son Prop'r
SHEBOYGAN—*Geele, Frank Hardware Co.
*Miller Hardware Co.

*Mueller, H. G. Lumber & Mfg. Co.
SHIOCTON—*Shiocton Lumber Co.
SPARTA—*Sparta Sash & Door Co.

STEVENS POINT—*Vetter Mfg. Co.
SUPERIOR—*Cowdin, H. F.
*Dam, F. H.

*Shunn, Wm. H.
WATERTOWN—*Lehmann & Schroeder
*Weber, J. & Son

WAUKESHA—*Wilbur Lumber Co.
WAUPACA—*Nelson, A. G. Lumber Co.
WAUSAU—*Werhelm Mfg. Co.

WAUWATOSA—*Wauwatosa Sash & Door Factory
WEST ALLIS—*Radcliffe & Porter Mfg. Co.

WESTFIELD—*Kendall, George

WYOMING.

EVANSTON—*Atkinson, J. L.
RAWLINS—*Daley, R. A.
*Larsen, Hans

Sashes (English Casement)

Haase, G. J., 142 Centre, New York

*Saw Anvils

COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)

Saw Arbors

American Wood Working Machinery Co. Rochester, N. Y., & West Street bldg, New York
Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
Atlantic Works (Inc.) (Cast Steel), Phila., Pa.
Beach, H. W., Montrose, Pa.
Bentel & Margedant Co., Hamilton, O.
Chase Turbine Mfg. Co. (With Self-Oiling Boxes), Orange, Mass.

Cruible Steel Co. of America (La Belle Steel), Frick bldg, Pittsburg, Pa.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Goodell-Pratt Co. (Saw or Emery Wheel), Greenfield, Mass.

Hemingway, John & Son, Lynn, Mass.
Hobbs Mfg. Co., Worcester, Mass.

Howell, R. R. & Co., 31st av eor S E 4th, Minneapolis, Minn.

National Saw Co., Newark, N. J.
Oliver Machinery Co., Grand Rapids, Mich.

Simonds Mfg. Co., Fitchburg, Mass.
Sovereign Foundry & Mfg. Co., Lebanon, N. J.

White, Jno. A. Co. (Self Oiling), Dover, N. H.
Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Saw Benches or Tables

American Sawmill Machinery Co. ("American"), 50 Church, New York & Hacketts-town, N. J.

American Wood Working Machinery Co., Rochester, N. Y., & West St. bldg, New York
Atlantic Works (Inc.), Phila., Pa.

Badger State Machine Co. (Self-Feed Rip, Saw & Combination), Janesville, Wis.

Baker Bros., Toledo, O.
Beach, H. W. (Rip & Cut-off), Montrose, Pa.

Carey, W. W. (Circular), Lowell, Mass.
Challenge Co., Batavia, Ill.

Chase Turbine Mfg. Co. (Power Feed), Orange, Mass.

Colburn Machine Tool Co. ("Universal"), Franklin, Pa.

Colladay, Jos. O. Co., 626 Race, Phila., Pa.
Connell & Dengler Machine Co. (Iron or Wood Table), Rochester, N. Y.

COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)

Creseent Machine Co. (Combination), Leetonia, O.

Dennis Machine Co. (Benches Only), Jackson, Mich.

Dodds, Alex. (Circular, etc.), Grand Rapids, Mich.

Fairbanks, E. & T. Co., St. Johnsbury, Vt.
Fay, J. A. & Egan Co., W. Cincinnati, O.

Fischer, E., Machine Works (Cut-Off & Rip Saw for Box Factories), 710 Carroll av, Chicago, Ill.

Frank Machinery Co., Buffalo, N. Y.

Freeman, S. & Sons Mfg. Co., Racine, Wis.
Goodspeed Machine Co., Winchendon, Mass.

Grabo, E. O. (for Metal), 180 Centre, New York

Grand Rapids Hand Screw Co. (Wood Frame), Grand Rapids, Mich.

Greenlee Bros. & Co. (Automatic), Railway Exchange bldg, Chicago, Ill. Factory: Rockford, Ill.

Hayes Machine Co. (Inc.), Kingston, N. Y.

Hemingway, John & Son, Lynn, Mass.
Hildreth Bros. (Tables Only), Harvard, Mass.

Hobbs Mfg. Co., Worcester, Mass.
Holmes, E. & B. Machinery Co., 59 Chicago, Buffalo, N. Y.

Hub Machine & Tool Co. ("Aeme" Metal), 621 Cherry, Phila., Pa.

Humphrey Machine Co., Keene, N. H.

Kidder, R. E. (Circular, etc.), Worcester, Mass.
Klmball Bros. & Sprague (Also Circular), Brockton, Mass.

Murray, D. J. Mfg. Co. (Self Feed, etc.), Wausau, Wis.

Oliver Machinery Co. ("Universal" Saw Benches), Grand Rapids, Mich.

Power, L. & Co., 20 S 23d, Phila., Pa.
Root, B. M. Co. (Portable Saw Tables), York, Pa.

Royle, John & Sons, Paterson, N. J.
Sidney Tool Co. ("Defiance" Saw Tables and Jointers), Sidney, O.

Smith, H. B. Machine Co., Smithville, N. J., & 121 Liberty, New York
Sovereign Foundry & Mfg. Co., Lebanon, N. J.

Spangler Mfg. Co. (Circular, etc.), York, Pa.
Stowell, J. A. Co., Leominster, Mass.

Tidey, M. B., Newark, N. J.

U. S. Machine Co. (Self Feed), Williamsport, Pa.

U. S. Wind Engine & Pump Co., (Horse Power), Batavia, Ill.

Wachusett Machine Co. (Adjustable), Fitchburg, Mass.

Walker, G. A. Machine Co., 51 Chardon, Boston, Mass.

Yerkes & Finan Woodworking Machine Co., St. Louis, Mo.

Saw Blades (Band & Jig)

Cunningham, E. E. (Est. of), Worcester, Mass.
Simonds Mfg. Co., Fitchburg, Mass.

Saw Blades (Cold)

Atkins, E. C. & Co. (Inc.). Home Office & Factories, Indianapolis, Ind.
 High Duty Saw & Tool Co. (High Carbon Crucible Steel Plate with Inserted Teeth), Eddystone, Pa.
 Simonds Mfg. Co., Fitchburg, Mass.

Saw Blades (Hack, Flexible Back)

Atkins, E. C. & Co., Indianapolis, Ind.
 Simonds File Co., Fitchburg, Mass.
 Thompson, Henry G. Son & Co. ("Eureka"), New Haven, Conn.
 West Haven Mfg. Co., New Haven, Conn.

Saw Blades (Hack, for Metal)

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
PITTSBURGH GAGE & SUPPLY CO. ("Damascus"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
 Thompson, Henry G. & Son Co., New Haven, Conn.
 West Haven Mfg. Co., New Haven, Conn.

Saw Blades (Stone)

(See Stone Saw Blades, Steel)

Saw Blades & Frames (Hack)

(See also Hack Saw Machines)

Allen-Randall Co., Springfield, Mass.
 Arcade Mfg. Co., Freeport, Ill.
 Armstrong-Blum Mfg. Co. ("Marvel" Draw-cut), 120 N Francisco, W, Chicago, Ill.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
BERNZ, OTTO S., 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
 Boker, Herman & Co. ("Intra" Hack Saw Blades), 101 Duane, New York
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Bridgeport Hardware Mfg. Co., Bridgeport, Conn.
 Clemens Bros., Middletown, N. Y.
 Diamond Saw & Stamping Works ("Sterling," also "Sterling," for Railroad & Structural Steel Work), Buffalo, N. Y.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Goodell-Pratt Co. ("The G."), Greenfield, Mass.
 Grover, John B. File Co., Nashua, N. H.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)
 Harris, Samuel & Co., 23 S Clinton, Chicago, Ill.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
 Hough, Morrill M. ("Morrill" Hack Saw Blade), 123 Liberty, New York
 Jennings, C. E. & Co., 42 Murray, New York
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Massachusetts Saw Works ("Victor," "Diamond"), Chicopee, Mass.
 Millers Falls Co. ("Star"), 28 Warren, New York. Works, Millers Falls, Mass.

Montgomery & Co., 105 Fulton, New York
 National Saw Co., Newark, N. J.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Olmsted, L. H., Hasbrouck Heights, N. J.
PATTERSON, GOTTFRIED & HUNTER (Ltd.), 211 Centre, New York
 Quality Saw & Tool Works ("Quality"), Springfield, Mass.

Q. M. S. Co., Plainfield, N. J.
 Robertson Mfg. Co., Buffalo, N. Y.
 Sawyer Tool & Mfg. Co., Fitchburg, Mass.
 Simonds Mfg. Co., Fitchburg, Mass.
 Smith & Hemenway Co. ("Red Devil" Hack Saw Frame), 108 Duane, New York
 Smith & Pomeroy Wind Mill Co. ("Eureka"), Kalamazoo, Mich.
STARRETT, L. S. CO., Athol, Mass. (See adv. index, end of book)
 Thompson Henry G. & Sons Co. ("Milford" Hack Saw & Blades), New Haven Conn.
 Tower & Lyon Co., 95 Chambers, New York
 Union Hardware Co. (Frames Only), Torrington, Conn.
 West Haven Mfg. Co. ("Universal," "Utility"), New Haven, Conn.

***Saw Brazing Tables**

COVEL MFG. CO. (For Band Saws), Benton Harbor, Mich. (See adv. index, end of book)

Saw Bucks & Frames

Belle City Mfg. Co., Racine, Wis.
 Brennan & Co., Louisville, Ky.
 Chapin-Stevens Co. (Turning Saw Frames & Saws), Pine Meadow, Conn.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Doscher Plane & Tool Co. ("Acme" Roller Saw Bucks), Saugatuck, Conn.
 Hunt, Helm, Ferris & Co. (Hardwood Folding), Harvard, Ill.
 Jennings, C. E. Co., 42 Murray, New York
 Judson Mfg. Co. ("Vermont"), E. Arlington, Vt.
 Simonds Mfg. Co., Fitchburg, Mass.
 Tucker & Dorsey Mfg. Co. ("Hoosier" Folding Saw Buck), State av & Bates, Indianapolis, Ind.

***Saw Coils (Butchers')**

AMERICAN TAP & DIE CO. (50 Feet Long), Greenfield, Mass. (See adv. index, end of book)

Saw Guides

American Sawmill Machinery Co. ("American"), 50 Church, New York & Hackettstown, N. J.
 American Wood Working Machinery Co., Rochester, N. Y., & West Street bldg, New York
 Atkins, E. C. & Co. (Inc.), Home Office & Factories, Indianapolis, Ind.
 Baldwin, Tuthill & Bolton (for Band Saws), Grand Rapids, Mich.
 Barry Saw Co., Indianapolis, Ind.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Filer & Stowell Co. (Circular), Home Office, Milwaukee, Wis.
 Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
 Howell, R. R. & Co., Minneapolis, Minn.
 Lane Mfg. Co., Montpelier, Vt.

Murray, L. J. Mfg. Co., Wausau, Wis.
 New Britain Machine Co. ("Pines," Band Saw), New Britain, Conn.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, Ohio
 Reed, Jos. B., Cairo, Ill.
 Salem Iron Works, Winston Salem, N. C.
 Simonds Mfg. Co., Fitchburg, Mass.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Union Iron Works, Bangor, Me.
 Wickes Bros., Saginaw, Mich.

***Saw Leveling Tables**

COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)

Saw Mill Carriages

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 American Sawmill Machinery Co., 50 Church, New York & Hackettstown, N. J.
 Clark Bros. Co., Belmont, N. Y.
 Corinth Engine & Boiler Works, Corinth, Miss.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Diamond Iron Works ("Wilkinson"), Minneapolis, Minn.
 Dubois Iron Works, Dubois, Pa.
 Filer & Stowell Co., Home Office, Milwaukee, Wis.
 Frick Co., Waynesboro, Pa.
 Garland, M. Co., Bay City, Mich.
 Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
 Lane Mfg. Co., Montpelier, Vt.
 McDonough Mfg. Co., Eau Claire, Wis.
 Memphis Machine Works, Memphis, Tenn.
 Murray, D. J. Mfg. Co., Wausau, Wis.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Prescott Co., Menominee, Mich.
 Southern Engine & Boiler Works (Inc.), Jackson, Tenn.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Stearns Co. Erie, Pa.
 Union Iron Works, Bangor, Me.
 Wheeland Machine Works, Chattanooga, Tenn.
 Wickes Bros., Saginaw, Mich.

***Saw Mill Construction (Fire-Proof)**

WORDEN-ALLEN CO., P. O. BOX 528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

Saw Mill Feeds (Steam)

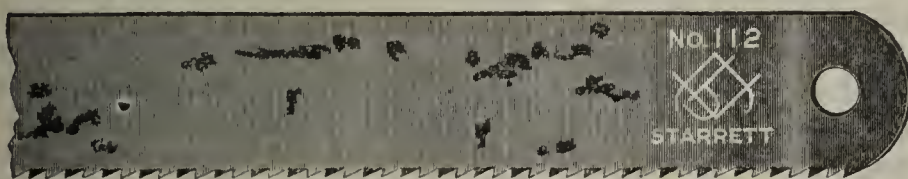
Diamond Iron Works, Minneapolis, Minn.
 Stearns Co., Erie, Pa.
 Soule Steam Feed Works, Meridian, Miss.

Saw Mills

(See Lumber Manufacturers)

Saw Mills (Band)

ALLIS-CHALMERS CO. (Single & Double Cutting), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Clark Bros. Co., Belmont, N. Y.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Corinth Engine & Boiler Works, Corinth, Miss.

STARRETT HACK SAWS

**CUT QUICKER
AND
LAST LONGER**

Made in great variety of lengths, widths, thicknesses and teeth per inch, to cut anything from thin sheet brass or tube to heavy steel rails.

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BRANCHES AT
NEW YORK
CHICAGO
LONDON

Diamond Iron Works ("Wilkinson," Single & Double Cutting), Minneapolis, Minn.
Du Bois Iron Works, Du Bois, Pa.
Filer & Stowell Co., Home Offices, Milwaukee, Wis.
Garland, M. Co., Bay City, Mich.
Giddings & Lewis Mfg. Co., Fond du Lac, Wis.
Hill, W. E. & Co., Kalamazoo, Mich.
Humphrey Machine Co., Keene, N. H.
Lombard Iron Works & Supply Co., Augusta, Ga.
McDonough Mfg. Co., Eau Claire, Wis.
Manistee Iron Works & Supply Co., Manistee, Mich.

Mershon, Wm. B. & Co., Saginaw, Mich.
Murray, D. J. Mfg. Co., Wausau, Wis.
Phoenix Mfg. Co. (Portable, etc.), Eau Claire, Wis.

Portland Iron Works (Inc.), Portland, Ore.
Sinker-Davis Co., Indianapolis, Ind.
Stearns Co., Erie, Pa.
Wickes Bros., Saginaw, Mich.
Wisconsin Engine Co. ("Wilkin"), Corliss, Wis.

Saw Mills (Circular)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)

Bartley, Wm. & Son (Portable), Bartley, N. J.
Butts, W. W., Trestle, N. Y.
Chandler & Taylor Co., Indianapolis, Ind.
Chase Turbine Mfg. Co., Orange, Mass.
Clark Bros. Co., Belmont, N. Y.
Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co. Mfg. Co., St. Louis, Mo.
DeLouch Mill Mfg. Co., Bridgeport, Ala.
Diamond Iron Works, Minneapolis, Minn.
Enterprise Mfg. Co., Columbiana, Ohio.
Eureka Bark Mill Co., Lancaster, Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Filer & Stowell Co., Home Offices, Milwaukee, Wis.
Frick Co., Waynesboro, Pa.
Gaar, Scott & Co., Richmond, Ind.
Garland, M. Co., Bay City, Mich.
Geiser Mfg. Co., Waynesboro, Pa.
Giddings & Lewis Mfg. Co., Fond du Lac, Wis.
Hethman Machine Works, Evansville, Ind.
Herrick, Chas. E., Northampton, Mass.
Hill, W. E. & Co., Kalamazoo, Mich.
Humphrey Machine Co., Keene, N. H.
Knight Mfg. Co., Canton, O.
Lane Mfg. Co. (Lane Patent Lever-Set), Montpelier, Vt.

Lombard Iron Works & Supply Co., Augusta, Ga.
Lovell Foundry, Fitchburg, Mass.
Lyon Iron Works ("Standard"), Greene, N. Y.
McEwen Bros., Wellsville, N. Y.
McNamar Machine Works, Newark, O.
Mansfield Engineering Co., Mansfield, O.
Moltz, Jacob J., Williamsport, Pa.
Murray, D. J. Mfg. Co., Wausau, Wis.
New Birdsall Co., Auburn, N. Y.
New York Engine Co., Watertown, N. Y.
Phoenix Mfg. Co., Eau Claire, Wis.
Port Huron Mfg. Co., Port Huron, Mich.
Prescott Co., Menominee, Mich.
Robinson & Co., Richmond, Ind.
Rockwood Mfg. Co., 1801 English av., Indianapolis, Ind.
Russell & Co., Massillon, O.
Salem Iron Works, Winston-Salem, N. C.
Scheidler Machine Works Co., Newark, O.
Sinker-Davis Co., Indianapolis, Ind.
Smalley Mfg. Co., Manitowoc, Wis.
Southern Engine & Boiler Works, Jackson, Tenn.
Sovereign Foundry & Mfg. Co., Lebanon, N. J.
Spangler Mfg. Co., York, Pa.
Standard Saw Mill Machinery Co., Erie, Pa.
Stearns Co., Erie, Pa.
Stover Mfg. Co., Freeport, Ill.
Union Iron Works, Bangor, Me.
Wheland Machine Works, Chattanooga, Tenn.
Wickes Bros., Saginaw, Mich.

Saw Mills (Drag)

Butterworth & Lowe, Grand Rapids, Mich.
Chandler & Taylor Co., Indianapolis, Ind.
Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Filer & Stowell Co., Home Offices, Milwaukee, Wis.
Garland, M. Co., Bay City, Mich.
Giddings & Lewis Mfg. Co., Fond du Lac, Wis.
Globe Foundry & Machine Co. (Self-Feed), Sheboygan, Mich.
Hill, W. E. & Co., Kalamazoo, Mich.
Howell, R. R. & Co., 31st av cor S E 4th, Minneapolis, Minn.
Kline, Lewis T. (Drag Saw Machines), Algonquin, Mich.
Lane Mfg. Co., Montpelier, Vt.
Lyon Iron Works ("Standard"), Greene, N. Y.
St. Albans Foundry Co., St. Albans, Vt.

Smalley Mfg. Co., Manitowoc, Wis.
Southern Engine & Boiler Works, Jackson, Tenn.
Stearns Co., Erie, Pa.
Trevor Mfg. Co. (For Handle Factories, etc.), Lockport, N. Y.
Union Iron Works, Bangor, Me.
Wickes Bros. (Belt or Steam), Saginaw, Mich.

Saw Mills (Gang)

Adams, S. & Son, Rome, N. Y.
Bartlett, A. F. & Co., Saginaw, Mich.
Diamond Iron Works ("Diamond" Belt, etc.), Minneapolis, Minn.
Filer & Stowell Co., Milwaukee, Wis.
Giddings & Lewis Mfg. Co., Fond du Lac, Wis.
Henderson, W. K. Iron Works & Supply Co., Shreveport, La.
Prescott Co., Menominee, Mich.
Stearns Co., Erie, Pa.
Union Iron Works, Bangor, Me.
Wickes Bros., Saginaw, Mich.
Wisconsin Engine Co. ("Wilkin"), Corliss, Wis.

Saw Mills (Portable)

Abenague Machine Works (Circular Saw Outfit), Westminster Station, Vt.
Advance Thresher Co. (Single & Double), Battle Creek, Mich.
Aultman & Taylor Machinery Co., Mansfield, O.
Burlingame, A. Co., Worcester, Mass.
Chandler & Taylor Co., Indianapolis, Ind.
Comstock, Geo. S. ("U. S. Standard"), Mechanicsburg, Pa.
Corinth Engine & Boiler Works, Corinth, Miss.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Enterprise Mfg. Co. ("New Buckeye"), Columbiana, Ohio.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Frick Co., Waynesboro, Pa.
Gaar, Scott & Co., Richmond, Ind.
Geiser Mfg. Co., Waynesboro, Pa.
Hethman Machine Works, Evansville, Ind.
Hench & Drougold Co., York, Pa.
Howell, R. R. & Co., Minneapolis, Minn.
June, D. & Co., Fremont, O.
Keck-Gonnerman Co., Mount Vernon, Ind.
Lombard Iron Works & Supply Co., Augusta, Ga.
Liddell Co., Charlotte, N. C.
Lyon Iron Works, Greene, N. Y.
Mansfield Machine Works, Mansfield, O.
Mechanburg Iron Works, Charlotte, N. C.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Reeves & Co., Columbus, Ind.
Robinson & Co., Richmond, Ind.
Russell & Co., Massillon, O.
Salem Iron Works, Winston-Salem, N. C.
Scheidler Machine Works, Newark, O.
Sergeant Mfg. Co., Greensboro, N. C.
Southern Engine & Boiler Works, Jackson, Tenn.
Spangler Mfg. Co., York, Pa.
Sparta Iron Works Co., Sparta, Wis.
Standard Saw Mill Machinery Co., Erie, Pa.
Stevens, A. W. Co., Marquette, Wis.
Thomas-Albright Co., Goshen, Ind.
Talbot & Sons, Richmond, Va.
Westinghouse Co., Schenectady, N. Y.

Saw Re-Toothers

Hanchett Swage Works, Big Rapids, Mich.
Matteson Mfg. Co., 128 S. Clinton, Chicago, Ill.

If You Are In Doubt

as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

They Can Tell You

Saw Sets

Atkins, E. C. & Co. (Inc.), Home Offices & factories, Indianapolis, Ind.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Baker & Foster ("Baker" Double Tooth), 3050 Ludlow, Phila., Pa.
Bergman Hardware & Tool Mfg. Co., Buffalo, N. Y.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Bonney Vise & Tool Works, Allentown, Pa.
Cmmlingham, E. E. (Est. of), Worcester, Mass.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Humason & Beckley Mfg. Co. ("Nash's"), New Britain, Conn.
Johnson, Wm. (Hedberg Works, Hammer, Common & Stillman Lever), Newark, N. J.
Kilborn & Bishop Co. ("Whiting & Woodman Forged"), New Haven, Conn.
Matteson Mfg. Co., 128 S. Clinton, Chicago, Ill.
MORRILL, CHAS. ("Morrill"), 277 B'way, New York. (See adv. index, end of book)

THE "SPECIAL" SAW SET



MANUFACTURED BY

CHAS. MORRILL, 277 Broadway, N. Y.

National Saw Co., Newark, N. J.
Peck, Stow & Wilcox Co. ("The Elrich"), Southington, Conn.
Prouty, C. & Co. (Steel), Eldred, Pa.
Simonds Mfg. Co., Fitchburg, Mass.
Smith, Seymour & Son (Hammer & Lever), Oakville, Conn.
Smith & Hemenway Co., 108 Duane, New York
Springfield Machine Screw Co., Springfield, Mass.
Stearns, E. C. & Co. ("Stearns"), Syracuse, N. Y.

Saw Sharpening Machines

(See Machines, Saw Sharpening; also Sharpeners, Saw)

Saw Slashers

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)
Diamond Iron Works, Minneapolis, Minn.
Filer & Stowell Co., Milwaukee, Wis.
Garland, M. Co., Bay City, Mich.
Simonds Mfg. Co., Fitchburg, Mass.

Saw Stretchers & Re-Toothers

(See Saw Re-Toothers)

Saw Swages

Ajax Mfg. Co. ("Ibsen Bros."), 1 Jackson, Pittsburg, Pa.
Atkins, E. C. & Co. ("The Victor"), Home Offices & Factories, Indianapolis, Ind.
Anton Saw Co., Canton, Ohio.
COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)
Crowell, D. J., 200 Terrace, Buffalo, N. Y.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Emerson, Smith & Co. (Solid Steel), Beaver Falls, Pa.
Hanchett Swage Works (Adjustable foot Circular Saws, etc.), Big Rapids, Mich.
Hinds, Thos., Malone, N. Y.
Hoe, R. & Co., 504 Grand, New York
Matteson Mfg. Co., 128 S. Clinton, Chicago, Ill.
Mixer, J. W. Saw Tool Co. ("Mixer" Duplex Saw Tooth Swage), Plymouth, Mass.
Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.
Phoenix Mfg. Co. ("White"), Eau Claire, Wis.
Pribnow Swage & Tool Works ("Pribnow"), Mellen, Wis.
Rogers, Sam'l C. & Co., 10 Lock, Buffalo, N. Y.
Rowe & Trunnel, 124 W 2d, Cincinnati, O.
Simonds Mfg. Co., Fitchburg, Mass.
Southern Saw Works, Atlanta, Ga.

Saw Tables

(See Saw Benches or Tables; also Saw Tables for Metal)

Saw Tables for Metal

Grabo, E. O., 180 Centre, New York
Hub Machlue & Tool Co. ("Acme"), 623 Cherry, Phila., Pa.
Johnson, Israel H., Jr., Co., 337 N. 15th, Phila., Pa.

Saw Teeth

Keystone Drop Forge Works (Drop Forge), Chester, Pa.
Simonds Mfg. Co., Fitchburg, Mass.

*Saw Teeth (Diamond)

MEYERS, WILLARD F., 342 Vernon av, Long Island City, N. Y. (See adv. index, end of book)

Saws

(Under this Heading See Sub-classifications)

Albany Saw Works Co., Albany, N. Y.
Ambler Saw Mfg. Co., Natick, Mass.
Andrews, E. & Sons (Solid & Inserted), Williamsport, Pa.
Atkins, E. C. & Co., Indianapolis, Ind.
Barry Saw Co., Indianapolis, Ind.
Barnes Bros., Muskegon, Mich.
Barnes Tool Co., New Haven, Conn.
Birmingham Saw Works, Birmingham, Ala.
Bishop, G. H. & Co., Lawrenceburg, Ind.
Branch Saw Co., 817 N. 2d, St. Louis, Mo.
Broadhead, Jos., Manistee, Mich.
Buckeye Saw Mfg. Co., Columbus, O.
California Saw Works, 208 Mission, San Francisco, Cal.
Canton Saw Co., Canton, O.
Chattanooga Saw Works, Chattanooga, Tenn.
Clemson Bros., Middletown, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Detroit Saw & Tool Works, Detroit, Mich.
Disston, Henry & Sons (Inc.), Tacony, Philadelphia, Pa.

Edge, Frank & Co., Grand Rapids, Mich.
Elmira Saw & Machine Co., Elmira, N. Y.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Fisherville Saw Co., Penacook, N. H.
Fox, J. E. Saw Works (Inc.), Seattle, Wash.
Gerlach, Peter Co., Cleveland, O.
Goes, Oscar & Co., 18 S Canal, Chicago, Ill.
Hiles, C. A. & Co., 14th & Western av, New York, N. Y.
Hastings, Arthur J. & Co., Railroad pl, New York, N. Y.

Hoe, R. & Co., 504 Grand, New York
Hunter Saw & Machine Co. (Circular Saws for Metal), Pittsburg, Pa.
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Kennedy, Ralph M., 111 N 7th, Phila., Pa.
Kentucky Saw Works (J. B. Semor, Prop.), Louisville, Ky.
Lippert, E. T. Saw Mfg. Co., Bennett, Pa.
McNiece, Wm. & Son, 515 Cherry, Philadelphia, Pa.

Mack & Winkle, 172 Skillman av, Brooklyn.
Menominee Saw Co., Menominee, Mich., N. Y.
Michigan Saw Co., Saginaw, Mich.
Miner, J. H., Humboldt, Miss.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Oldham, Joshua & Sons, 112 26th, Brooklyn.
Penfield Saw Works, Bristol, Conn.
Rowe & Trunnell, 123 W 2d, Cincinnati, O.
Schwartz, M. Sons, Bangor, Me.
Simonds Mfg. Co., Fitchburg, Mass.
Simonds Saw Co., San Francisco, Cal.
Southern Saw Works, Atlanta, Ga.
Standard Saw Co., Bradford, Pa.
Terhune, E. L., 69 Centre, New York
Thompson, H. G. & Son Co., 6 Elm, New Haven, Conn.

Toland & Son, Front & Low, Baltimore, Md.
Toledo Saw Co., Toledo, O.
United Mfg. Co., Kane, Pa.
Ward, Wm., Bay City, Mich.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.
Wolters-Baley Co., Manistee, Mich.

Saws (Band)

Ambler Saw Mfg. Co., Natick, Mass.
American Woodworking Machinery Co., Rochester, N. Y., & West St bldg, New York
Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, G. H. & Co., Lawrenceburg, Ind.
Canton Saw Co., Canton, O.
Clemson Bros., Middletown, N. Y.
Crescent Machine Co. ("Crescent"), Leetonia, Ohio
Curtis & Co. Mfg. Co., St. Louis, Mo.

Detroit Saw & Tool Works, Detroit, Mich.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Edge, Frank & Co., Grand Rapids, Mich.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.

Gerlach, Peter Co., Cleveland, O.
HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index end of book)

Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.

Hoe, R. & Co., 504 Grand, New York
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Kennedy, Ralph M., 111 N 7th, Phila., Pa.
Lippert, E. T. Saw Mfg. Co., Bennett, Pa.
McNiece, Wm. & Son (Imported), 515 Cherry, Philadelphia, Pa.

Marston, J. M. & Co. (Hand & Foot Power), 226 Ruggles, Boston, Mass.
National Saw Co., Newark, N. J.
Oldham, Joshua & Sons, 112 26th, Brooklyn, New York

Oliver Machinery Co., Grand Rapids, Mich.
Silver Mfg. Co., Salem, Ohio
Simonds Mfg. Co., Fitchburg, Mass.
Southern Saw Works, Atlanta, Ga.
Terhune, E. L., 69 Centre, N. Y.
Toland & Son, c Front & Low, Baltimore, Md.
Toledo Saw Co., Toledo, Ohio
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Wright, Chas. E., Waterbury, Conn.

Saws (Band Sprue)

(See Band Sprue Sawing Machines)

Saws (Blind Slat)

American Woodworking Machinery Co., Rochester, N. Y., & West Street bldg, New York
Fay, J. A. & Son Co., Cincinnati, Ohio
Hayes, E. B. Machine Co., Dshkosh, Wis.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, Ohio

Saws (Buck)

Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Butchers', Etc.)

Andrews, E. & Sons, Williamsport, Pa.
Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, Geo. H. Co., Lawrenceburg, Ind.
Chatillon, Jno. & Sons ("Chatillon"), 85 Cliff, New York
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.

Massachusetts Saw Works ("Diamond"), Chicopee, Mass.
Millers Falls Co. ("Star" Crucible Steel Back), 28 Warren, New York; Works: Millers Falls, Mass.

Ohlen, J. & Sons Saw Mfg. Co., Columbus, Reading Hardware Co., Reading, Pa.
Ross, James, 107 E Court, Cincinnati, O.
Simonds Mfg. Co., Fitchburg, Mass.
Thompson, H. G. & Son Co. (Polished, also in Colls of 50 feet), New Haven, Conn.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Circular)

Atkins, E. C. & Co., Indianapolis, Ind.
Barnes Bros., Muskegon, Mich.
Buckeye Saw Mfg. Co. (Inserted & Solid Tooth), Canton Saw Co., Canton, O.
Chattanooga Saw Works (Solid Tooth), Chattanooga, Tenn.

Clemson Bros., Middletown, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Detroit Saw & Tool Works, Detroit, Mich.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Eagle Saw Wks. Chattanooga, Tenn.
Emerson, Smith & Co., Beaver Falls, Pa.
Foucart, J. E., Williamsport, Pa.
Gerlach, Peter Co., Cleveland, O.
Hiles, C. A. & Co. (Solid Tooth, etc.), 14th & Western av, Chicago, Ill.

Hoe, R. & Co., 504 Grand, New York
Hoe, R. & Co., 504 Grand, N. Y.
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Kennedy, Ralph M., 111 N 7th, Phila., Pa.
Lippert, E. T. Saw Mfg. Co., Bennett, Pa.
McNiece, Wm. & Son, 515 Cherry, Phila., Pa.
Marston, J. M. & Co. (Hand & Foot Power), 226 Ruggles, Boston, Mass.

Menominee Saw Co., Menominee, Mich.
Michigan Saw Co., Saginaw, Mich.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, Ohio

Oldham, Joshua & Sons, 112 26th, Brooklyn.
Penfield Saw Works, Bristol, Conn.
Rowe & Trunnell, 123 W 2d, Cincinnati, O.
Simonds Mfg. Co., Fitchburg, Mass.
Southern Saw Works, Atlanta, Ga.
Standard Saw Co., Bradford, Pa.
Tabor Mfg. Co. ("Taylor-Newbold"), 18th & Hamilton, Phila., Pa.
Terhune, E. L., 69 Centre, New York
Toledo Saw Co., Toledo, O.
Wilson Saw & Mfg. Co. ("Wilson" Solid & Inserted Tooth), Port Huron, Mich.
Wolters-Baley Co., Manistee, Mich.

Saws (Circular, for Metal)

Atkins, E. C. & Co., Indianapolis, Ind.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Hunter Saw & Machine Co. (For Hot or Cold Metal Crucibles, Slate, etc.), Pittsburg, Pa.
Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Ohlen, J. & Sons, Saw Mfg. Co., Columbus, O.

Saws (Circular, Stone)

Lincoln Iron Works (For Soft Stone, etc.), Rutland, Vt.
Meyers, W. F., Long Island City, N. Y. City
Ohlen, J. & Sons, Saw Mfg. Co., Columbus, O.

Saws (Cold)

(See Cold Saw Cutting-Off Machines)

Saws (Concave)

Atkins, E. C. & Co., Indianapolis, Ind.
Barry Saw Co., 228 S. Penn, Indianapolis, Ind.
Canton Saw Co., Canton, O.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Emerson, Smith & Co., Beaver Falls, Pa.
Gerlach, Peter Co. (Circular), Columbus Rd & Winter, Cleveland, O.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.

Huther Bros. Saw Mfg. Co., Rochester, N. Y.
Lippert, E. T. Saw Mfg. Co., Bennett, Pa.
Menominee Saw Co., Menominee, Mich.
Michigan Saw Co., Saginaw, Mich.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Oldham, Joshua & Sons, 112 26th, Brooklyn, New York
Simonds Mfg. Co., Fitchburg, Mass.
Southern Saw Works, Atlanta, Ga.

Saws (Coping)

Millers Falls Co., 28 Warren, New York; Works: Millers Falls, Mass.

Saws (Cotton Gin)

Turner's, Jonathan F. Sons, Ossining, N. Y.

Saws (Cross-Cut)

Andrews, E. & Son, Williamsport, Pa.
Atkins, E. C. & Co., Indianapolis, Ind.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Henry & Sons, Tacony, Phila., Pa.
Grammes, L. F. & Sons (Jobbers), Allentown, Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.

Menominee Saw Co., Menominee, Mich.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Prouty, C. & Co., Eldred, Pa.
Root, B. M. Co., York, Pa.
Simonds Mfg. Co., Fitchburg, Mass.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Cylinder)

Gerlach, Peter Co., Cleveland, O.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.

Saws (Dehorning)

Atkins, E. C. & Co., Indianapolis, Ind.
Barnes, W. F. & John Co., Rockford, Ill.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Disston, Henry & Sons, Tacony, Phila., Pa.
Goodell-Pratt Co., Greenfield, Mass.
Hiles, C. A. & Co., Chicago, Ill.
Millers Falls Co. ("Star"), Millers Falls, Mass.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Diamond)

Atkins, E. C. & Co., Indianapolis, Ind.
Diamond Saw & Stamping Co., 361 7th, Buffalo, N. Y.
MEYERS, WILLARD F. (Reciprocating & Circular), 342 Vernon av, Long Island City, N. Y. (See adv. index, end of book)

Saws (Drag)

Atkins, E. C. & Co., Indianapolis, Ind.
Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
Canton Saw Co., Canton, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Henry & Son (Inc.), Tacony, Phila., Pa.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Farquhar, A. B. Co. (Ltd.), York, Pa.
Heebner & Sons (Horse Power), Lansdale, Pa.
Hoe, R. & Co., 504 Grand, New York
Howell, R. R. & Co., Minneapolis, Minn.
Kilne, Lewis T., Alpena, Mich.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Simonds Mfg. Co., Fitchburg, Mass.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Flexible Back Band)

(See Saw Blades, Hack, Flexible Hack)

Saws (Gang)

Atkins, E. C. & Co., Indianapolis, Ind.
Canton Saw Co., Canton, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.
Foucart, J. E., Williamsport, Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Hoe, R. & Co., 504 Grand, New York
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Simonds Mfg. Co., Fitchburg, Mass.
Southern Saw Works, Atlanta, Ga.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Gang, Stone & Slate)

(See Stone Gang Sawing Machines)

Saws (Grooving)

Atkins, E. C. & Co., Indianapolis, Ind.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Hoe, R. & Co., 504 Grand, New York
Michigan Saw Co., Saginaw, Mich.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Oldham, Joshua & Sons, 112 26th, Brooklyn, New York
Simonds Mfg. Co., Fitchburg, Mass.
Standard Saw Co., Bradford, Pa.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Hack)

(See Saw Blades & Frames, Hack; also Hack Saw Machines)

Saws (Hand)

Atkins, E. C. & Co., Indianapolis, Ind.
Bishop, Geo. H. & Co., Lawrenceburg, Ind.
Clemens Bros., Middletown, N. Y.
Disston, Henry & Sons, Tacony, Phila., Pa.
Jennings, C. E. & Co., 42 Murray, New York
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons' Saw Mfg. Co., Columbus, O.
Simonds Mfg. Co., Fitchburg, Mass.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Hot, Cut-off)

(See Machines, Hot Sawing)

Saws (Ice)

Atkins, E. C. & Co., Indianapolis, Ind.
Clemens Bros., Middletown, N. Y.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Disston, Henry & Sons (Inc.), Tacony, Philadelphia, Pa.
Gerlach, Peter Co., Cleveland, O.
Gifford-Wood Co., Hudson, N. Y., & Arlington, Mass.
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
Hoe, R. & Co., 504 Grand, New York
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Oldham, Joshua & Sons, 112 26th, Brooklyn, New York
Simonds Mfg. Co., Fitchburg, Mass.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Inserted Teeth)

Andrews, E. & Sons, Williamsport, Pa.
Buckeye Saw Mfg. Co., Columbus, O.
Curtis & Co. Mfg. Co., St. Louis, Mo.
Miner, J. H., Lumberton, Mass.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Simonds Mfg. Co., Fitchburg, Mass.
Tabor Mfg. Co. ("Taylor-Newbold"), 18th & Hamilton, Phila., Pa.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Jewelers')

Miller's Falls Co. ("Star"), 28 Warren, New York. Works: Miller's Falls, Mass.
West Haven Mfg. Co., New Haven, Conn.

Saws (Jig)

Atkins, E. C. & Co., Indianapolis, Ind.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Royle, John & Sons (Inc.) (For Metal Mortising, etc.), Stralight & Essex, Paterson, N. J.
Simonds Mfg. Co., Fitchburg, Mass.

Saws (Kitchen)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
Christy Knife Co., Fremont, O.
Goodell-Pratt Co., Greenfield, Mass.
Miller's Falls Co. ("Star" Steel Frame), 28 Warren, New York. Works: Miller's Falls, Mass.
Simonds Mfg. Co., Fitchburg, Mass.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Metal Slitting)

Automatic Tool Co., East Norwalk, Conn.
Becker Milling Machine Co., Hyde Park, Mass.
Brown & Sharpe Mfg. Co., Providence, R. I.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book.)
Pratt & Whitney Co., Hartford, Conn.
Thurston Mfg. Co. (Jewelers'), Providence, R. I.
Union Twist Drill Co., Athol, Mass.

Saws (Mitre Box)

Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Nail Cutting)

Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Piercing)

Dixon, Wm. (Inc.), 39 John, New York

Saws (Plumbers')

Atkins, E. C. & Co., Indianapolis, Ind.
BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
National Saw Co., 15 River, Newark, N. J.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Wilson Saw & Mfg. Co. ("Wilson"), Port Huron, Mich.

Saws (Plumbers' Hollow Mill)

West Haven Mfg. Co., New Haven, Conn.

Saws (Rail & Shop)

(See also Shop Sawing Machines, Iron)

Atkins, E. C. & Co., Indianapolis, Ind.
FAIRBANKS, MORSE & CO. (Portable), Wabash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Q. M. S. Co. ("Q. & C." Portable Rail Saws), Plainfield, N. J.

Saws (Scroll)

American Woodworking Machinery Co., Rochester, N. Y., & West St bldg, N. Y.
Atkins, E. C. & Co., Indianapolis, Ind.
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Edge, Frank & Co., Grand Rapids, Mich.
Emerson, Smith & Co., Beaver Falls, Pa.
Gerlach, Peter Co., Cleveland, O.
Hiles, C. A. & Co. ("Foy's"), 14th & Western av, Chicago, Ill.
Miller's Falls Co. ("Star"), 28 Warren, New York. Works: Miller's Falls, Mass.
Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
Oliver Machinery Co., Grand Rapids, Mich.
Pomeroy Scroll Saw Co., Hartford, Conn.
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 National Saw Co., Newark, N. J., & Middletown, N. Y.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Simonds Mfg. Co., Fitchburg, Mass.
 Standard Saw Co. (And Veneering), Bradford, Pa.

Saws (Shaver)

Inter-State Equipment & Engineering Co. ("Little Shaver" for Cross-Cutting, Rip Sawing & Mitering, etc.), Old Colony bldg, Chicago, Ill.

Saws (Stone Cutting)

Anderson, Geo. & Co., 420 Ogden, Newark, N. J.
MEYERS, WILLARD F., 342 Vernon
 av, Long Island City, N. Y. (See adv. index, end of book)

Saws (Swing)

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 Badger State Machine Co. (Improved Cut-Off), Janesville, Wis.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Bentel & Margedant Co., Hamilton, O.
 Chandler & Taylor Co., Indianapolis, Ind.
 Chase Turbine Mfg. Co. (Cut-Off), Orange, Mass.
 Coladay, Jos. O., 626 Race, Phila., Pa.
 Connell & Dengler Machine Co., Rochester, N. Y.
 Cordesman, Meyer & Co., Cincinnati, O.
 Cordesman, Rehtin Co., Cincinnati, O.
 Curtis & Co. Mfg. Co., St. Louis, Mo.
 Diamond Iron Works, Minneapolis, Minn.
 Dodds, Alexander, Grand Rapids, Mich.
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 Filer & Stovell Co., Milwaukee, Wis.
 Fischer, E. Machine Works (6-foot Swng), 710 Carroll av, Chicago, Ill.
 Frank Machinery Co., Buffalo, N. Y.
 Greaves, Klusman & Co., Cincinnati, O.
 Hill, W. E. & Co. (Iron Frame), Kalamazoo, Mich.
 Hobbs Mfg. Co., Worcester, Mass.
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 Howell, R. R. & Co., Minneapolis, Minn.
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 Knight Mfg. Co., Canton, O.
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 Luther, B. G. & Co., Worcester, Mass.
 Murray, D. J. Mfg. Co., Wausau, Wis.
 Ohlen, J. & Sons Saw Mfg. Co., Columbus, O.
 Oliver Machinery Co., Grand Rapids, Mich.
 Porter, C. O. & A. D., Grand Rapids, Mich.
 Power, L. & Co., 20 S 23d, Phila., Pa.
 Root, B. M. Co., York, Pa.
 Seymour & Whitlock, Newark, N. J.
 Sidney Tool Co. ("Defiance"), Sidney, O.
 Smith, H. B. Machine Co. (Swng Cut-Off), Smithville, N. J.
 Southern Engine & Boiler Works, Jackson, Tenn.
 Standard Saw Mill Machinery Co., Erie, Pa.
 Straub, H. N. Mfg. Co. (For Cooperage, etc.), Kansas City, Mo.
 Union Iron Works, Bangor, Me.
 U. S. Machine Co. (Iron Frame), Williamsport, Pa.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Wheeland Machine Works, Chattanooga, Tenn.
 White, John A. Co., Dover, N. H.
 Wickes Bros., Saginaw, Mich.
 Yerkes & Finan Woodworking Mahline Co., St. Louis, Mo.

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 Chesebro, Whitman & Co., 1167 1st av, New Grass Mfg. Co., 125 N. 2d, Phila., Pa.
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 Chicago Scale Co., Chicago, Ill.
 Columbia Steel Lever Scale Co., 29 W. Randolph, Chicago, Ill.
 Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Wash-
 bash av & Eldredge pl, Chicago, Ill.
 (See adv. index, end of book)
 Forschner, Chas. & Sons, 230 3rd av, New National Scale Co., Chicopee, Mass., York
OSGOOD SCALE CO., Binghamton,
 N. Y. (See adv. index & branch offices, end of book)
 Peck, Stow & Wilcox Co., Southington, Conn.
 Standard Scale & Supply Co. (Recording Beam), 243 Water, Pittsburg, Pa.
 Sargent & Co., New Haven, Conn., & 94 Center, New York
 Stephenson, L. & Co. ("Dearborn" for Wool, Cotton, Sugar, Paper, etc.), 22 Custom House, Boston, Mass.

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 Buffalo Scale Co., Buffalo, N. Y.
 Hunt, C. W. Co. (Automatic), West New Brighton, S. I., N. Y.
OSGOOD SCALE CO., Binghamton,
 N. Y. (See adv. index & branch offices, end of book)
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(See Testing Machines, Cement)

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 Arithmetical Scale Co., Chattanooga, Tenn.
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 McGrew Computing Scale Co., St. Louis, Mo.
 National Scale Co., Chicopee Falls, Mass.
 National Counting & Computing Co., Providence, R. I.
OSGOOD SCALE CO., Binghamton,
 N. Y. (See adv. index & branch offices, end of book)
 Standard Computing Scale Co., Detroit, Mich.
 Stimpson, W. F. Co., Detroit, Mich.
 Strnhler Computing Scale Co., Elkhart, Ind.
 Toledo Computing Scale Co., Toledo, O.
 Triner Scale Mfg. Co. 1255 W. 21st, Chicago, Ill.

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Pelouze Scale & Mfg. Co., 405 Ohio, Chicago, Ill.
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Standard Computing Scale Co., Detroit, Mich.
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Toledo Computing Scale Co., Toledo, Ohio
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Scales (Dormant)

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National Scale Co., Chicopee, Mass.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end of book)

Scales (Dump)

Avery Scale Co., North Milwaukee, Wis.
Buffalo Scale Co., Buffalo, N. Y.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end of book)
Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.

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Landers, Frary & Clark ("Columbia," "Landers"), New Britain, Conn.
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N. Y. (See adv. index & branch offices, end of book)
Pelouze Scale & Mfg. Co., 405 Ohio, Chicago, Ill.
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Triner Scale & Mfg. Co., 21st & Fairfield av, Chicago, Ill.

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Pratt & Whitney Co., Hartford, Conn.
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Chicago Scale Co., 292 W Jackson boul, Chicago, Ill.
Cincinnati Scale Mfg. Co., 212 Walnut, Cincinnati, O.
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Fairbanks Co., 186 Lafayette, New York
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Government Standard Scale Works (M. H. Winslow, Prop.), Terre Haute, Ind.
Howe Scale Co., Rutland, Vt., & 341 B'way, New York
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Richardson Scale Co., 3 Park Row, New York
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Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.
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Wolff, Fred, 625 W Boulevard, Kansas City, Mo.

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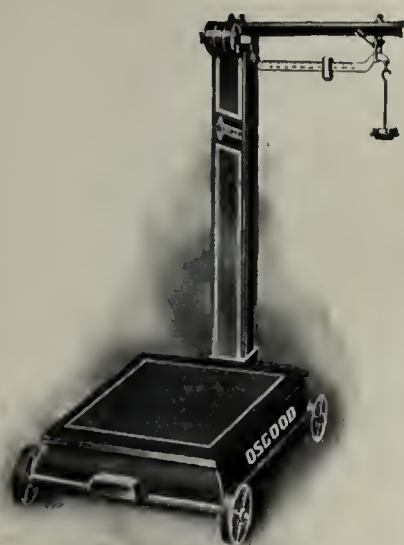
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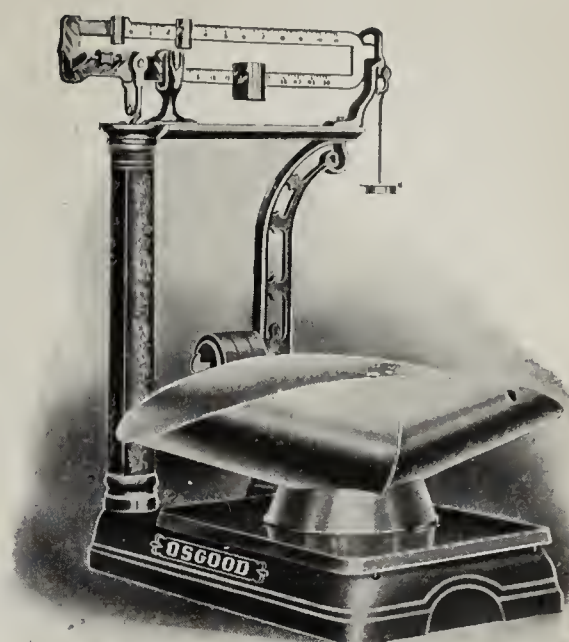
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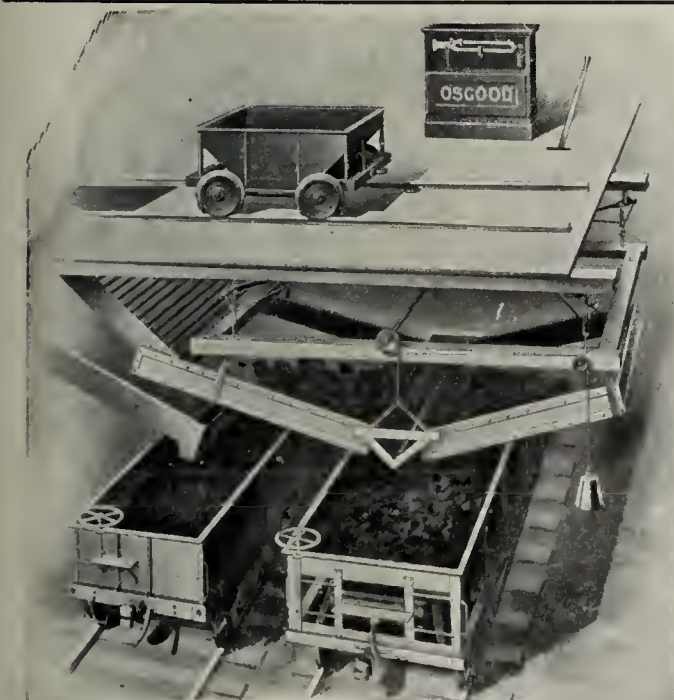
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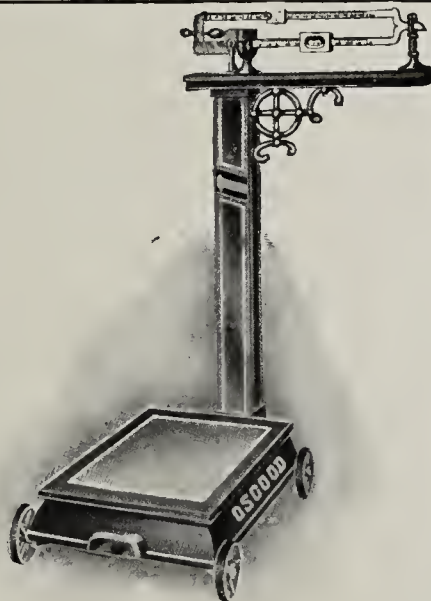
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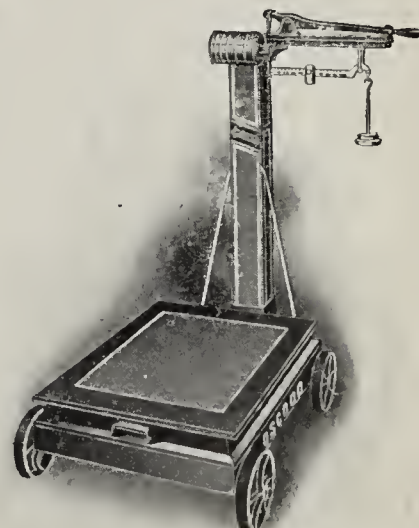
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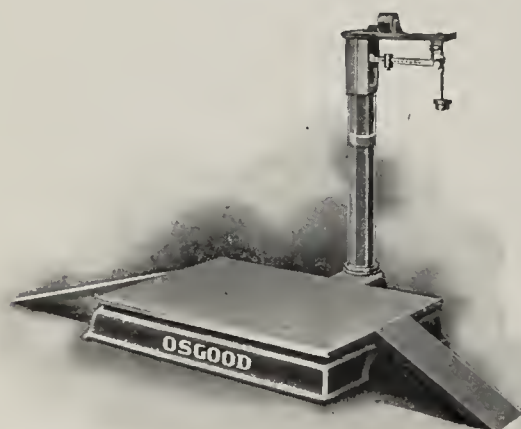
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(See adv. index, end of book)
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Zering, H. Mfg. Co. (Portable), Cincinnati, O.
Zimmerman Steel Co., Lone Tree, Ia.

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Scales (Postal)

Atwater, S. I., 603 B'way, New York
Buffalo Scale Co., Buffalo, N. Y.
Forschner, Chas. & Sons, 230 3rd av, New
York

Hurd & Hagglin, 316 Hudson, New York
NATIONAL SCALE CO., Beaver Falls,
Pa. (See adv. index, end of book)
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end
of book)

Pelouze Scale & Mfg. Co., 405 Ohio, Chicago,
Ill.
Standard Scale & Supply Co., 243 Water,
Pittsburg, Pa.

Tatum, Sam'l C. Co., Cincinnati, O.
Triner Scale & Mfg. Co., 1255 W 21st, Chi-
cago, Ill.

Scales (Railroad Track)

(See Scales, Track)

Scales (Revolving)

Sawyer, W. H. & Sons, Americus, Ga.
Standard Scale & Supply Co., 243 Water,
Pittsburg, Pa.

Scales (Rolling Mill)

Avery Scale Co., North Milwaukee, Wis.
Buffalo Scale Co., Buffalo, N. Y.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end
of book)
Standard Scale & Supply Co., 243 Water,
Pittsburg, Pa.

Scales (Spring)

Chatillon, Jno. & Sons, 85 Cliff, New York.
Henrichson Scale Co., Cincinnati, O.
Hanson Bros., 30 W Randolph, Chicago, Ill.
Landers, Frary & Clark, New Britain, Conn.
National Scale Co., Chicopee, Mass.
Sargent & Co., New Haven, Conn., & 94
Centre, New York

Scales (Stock)

Avery Scale Co., North Milwaukee, Wis.
Beckman Bros. ("American"), Des Moines, Ia.
Brunner, Chas. ("Acme"), Peru, Ill.
Buffalo Scale Co., Buffalo, N. Y.
Chicago Scale Co., 292 W Jackson boul., Chi-
cago, Ill.
Dayton Pitless Scale Co. ("Boulton's im-
proved Pitless"), Dayton, Ohio
Des Moines Wagon Works ("Ideal"), Des
Moines, Iowa
Fairbanks Co., 186 Lafayette, New York
FAIRBANKS, MORSE & CO., Franklin &
Monroe, Chicago, Ill. (See adv. index,
end of book)
Gaston's, N. B. Sons Co., Beloit, Wis.
Government Standard Scale Works (M. H. Win-
slow, Prop.), Terre Haute, Ind.
Howe Scale Co., Putland, Vt.
Jones of Binghamton, Binghamton, N. Y.
Kansas Hay Press Co. ("Lightning"), Kansas
City, Mo.
Kimball Bros. Co. ("Columbia"), Council
Bluffs, Iowa
McDonald Bros. ("Economy"), Pleasant Hill,
Myers, Chas. H. & Co., Le Roy, Ill. Missouri
North American Scale Co., Boston, Mass.
OSGOOD SCALE CO. ("Challenge,"
"Hercules," "Triumph"), Binghamton, N. Y.
(See adv. index & branch offices, end of book)
Queen City Scale Co. (repair), Cincinnati, O.
Standard Scale & Supply Co., 243 Water,
Pittsburg, Pa.

Standard Scale & Mfg. Co., Northville, Mich.
Stimpson Standard Scale Co., Northville, Mich.
Strait, H. N. Mfg. Co. ("National" & "Mon-
arch"), Kansas City, Mo.
Zimmerman Steel Co. ("Royal"), Lone Tree,
Iowa

Scales (Suspended, for Boiler Rooms)

Avery Scale Co., North Milwaukee, Wis.
Buffalo Scale Co., Buffalo, N. Y.
Hunt, C. W. Co., West New Brighton, S. I.,
N. Y.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end
of book)
Standard Scale & Supply Co., 243 Water,
Pittsburg, Pa.

Scales (Talking)

United Vending Machine Co., Cleveland, O.

*Scales (Tank)

OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end
of book)

Scales (Thermometer & Barom-eter)

Electro Chemical Engraving Co. (Inc.), 450 19th,
Brooklyn, N. Y.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index, end of book)
Standard Scale & Supply Co., 243 Water,
Pittsburg, Pa.

Scales (Tipple)

Avery Scale Co., North Milwaukee, Wis.
Niles Mine & Mill Supply Co., Williamson
bldg, Cleveland, O., & Niles, O.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end
of book)
Standard Scale & Supply Co., 243 Water,
Pittsburg, Pa.

Scales (Track)

Avery Scale Co. ("Avery" Automatic), North
Milwaukee, Wis.
Barker, S. G. & Son, Scranton, Pa.
Beckman Bros., Des Moines, Iowa.
Brunner, Chas., Peru, Ill.
Buda Foundry & Mfg. Co., Railway Ex-
change Bldg., Chicago, Ill.
Buffalo Scale Co., Buffalo, N. Y.
Chicago Scale Co., 292 W Jackson boul, Chi
cago, Ill
Cincinnati Scale Mfg. Co., 212 Walnut, Cin
cinnati, O
Fairbanks Co., 186 Lafayette, New York.
FAIRBANKS, MORSE & CO., Wabash
av & Eldredge pl., Chicago, Ill. (See adv.
index & branch offices, end of book)
Government Standard Scale Works (M. H. Win-
slow, Prop.), Terre Haute, Ind.
Howe Scale Co., Rutland, Vt.
Hunt, C. W. Co., West New Brighton, S. I.,
N. Y.
Jones of Binghamton, Binghamton, N. Y.
Kansas Hay Press Co., Kansas City, Mo.
MEAD-MORISON MFG. CO., Cambridge
Mass., & 11 Broadway, New York. (See
adv. index & branch office, end of book)
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end
of book)
Standard Scale & Supply Co., 243 Water,
Pittsburg, Pa.
Strait, H. N. Mfg. Co. ("Monarch"), Kansas
City, Mo.

ERNST WIENER RAILROAD SPECIALISTS FOR ALL INDUSTRIES. -COMPANY-

475 Fulton bldg, New York. (See adv. index
& branch offices, end of book)

Scales (Trolley Track)

Coburn Trolley Track Mfg. Co., Holyoke, Mass.
OSGOOD SCALE CO., Binghamton,
N. Y. (See adv. index & branch offices, end
of book)

Scalpers (Corn Mill)

Nordyke & Marmon Co. (Round Reel & Hexa-
gon), Indianapolis, Ind.

*Scalpers (Sieve)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)

Scenic Artists

Lash, Lee Studios, 142 W 39th, New York
Sosman & Laudis, 236 S Clinton, Chicago, Ill.
Story, O. L. Scenic Co. (Inc.), 21 Tufts,
Somerville, Mass.

Scissor Mfrs.

(See Shears & Scissors)

Scissors (Fluting)

Osborne, C. S. & Co. ("C. S. O. & Co."),
Harrison, N. J.

Scissors (Sardine)

Johnson, Wm. (Hedberg Works), Newark,
N. J.
Osborne, C. S. & Co. ("C. S. O. & Co." or
"Fetter's"), Harrison, N. J.

Scoops (Cheese)

American Cutlery Co., 193 Mather, Chicago,
Ill.

Scoops (Coal)

(See also Shovel & Spade Manufacturers)

Avery Stamping Co., Cleveland, O.
Beall Bros. (Inc.), Alton, Ill.
Central Stamping Co., 174 Fulton, New York
Chisholm Steel Shovel Works (Solid Cast
Steel) Cleveland O.
Hussey-Binns Shovel Co. (Crucible Cast Steel),
Pittsburg, Pa. Works: Charleroi, Pa.
Hubbard & Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
National Enameling & Stamping Co., Cass av
& 2d, St. Louis, Mo., & 374 B'way, New
York
Owensboro Shovel & Tool Co., Owensboro, Ky
Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
Pittsburg Shovel Co., Pittsburg, Pa.
Reiter G. C. Canton Ohio
Stontenborough, X., 277 Pearl, New York
Union Furnace Co., Union Furnace, Pa.
Wood Shovel & Tool Co., Piqua, O.

Scoops (Furnace)

Beall Bros. (Inc.), Alton, Ill.
Chisholm Steel Shovel Works (Solid Cast
Steel) Cleveland O.
Hussey-Binns Shovel Co. (Cast Steel), Pittsburg,
Pa. Works: Charleroi, Pa.
Hubbard & Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
Kohler, F. E. & Co., Canton, O.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Owensboro Shovel & Tool Co., Owensboro, Ky
Pittsburg Shovel Co., Pittsburg, Pa.
Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
Reiter G. C. Canton, Ohio.
Schalkenbach & Budke, Jersey City, N. J.
Union Furnace Co., Union Furnace, Pa.

Scoops (Grain)

Beall Bros. (Inc.), Alton, Ill.
Chisholm Steel Shovel Works, Cleveland, O.
Hussey-Binns Shovel Co. (Crucible Cast
Steel), Pittsburg, Pa. Works: Charleroi,
Pa.
Hubbard & Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Pa.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Owensboro Shovel & Tool Co., Owensboro, Ky.
Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
Pittsburg Shovel Co., Frick bldg, Pittsburg,
Pa. Works: Leechburg, Pa.
SPROUT, WALDRON & CO., Muncy,
Pa. (See adv. index, end of book)
Union Furnace Co., Union Furnace, Pa.
Wood Shovel & Tool Co., Piqua, O.

Scoops (Potato, Corn, Etc.)

Hubbard & Co., Pittsburg, Pa.
Mount Pleasant Tool Co. (Malleable Iron)
Mount Pleasant, Pa.
Union Fork & Hoe Co., Columbus, O.

Scoops (Scale)

American Can Co., 447 W 14th, New York
Freeman Mfg. Co. (Wooden), Kalkaska, Mich.
Lalance & Grosjean, 299 B'way, New York
McMorran, Edw. E. & Co., 15 N. Clinton,
Chicago, Ill.
National Enameling & Stamping Co., Cass av,
cor. 2d, St. Louis, Mo.
National Scale Co., Chicopee, Mass.
Philadelphia Scoop Co., 134 N. 2d, Phila-
delphia, Pa.

Scoops (Tunneling)

Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.

*Scourers (Wheat & Buck-wheat)

SPROUT, WALDRON & CO., Muncy,
Pa. (See adv. index, end of book)

Scow Builders (River)

Howard Ship Yards Co. (Scow & Barge), Jef-
fersonville, Ind.
Manitowoc Dry Dock Co. (Dump, Derrick, etc.),
Manitowoc, Wis.
Perth Amboy Dry Dock Co. (Brick & Freight),
Perth Amboy, N. J.

Scrap Brass

(See also Scrap Iron & Steel)

Atlas Smelting & Refining Co., 1012 German-
town av. Phila., Pa.
Bers, E. & Co., 22 S Del av, Phila., Pa.
Culbert, John C., Pawtucket, R. I.
Dolgoft, Jas. L., Bridgeport, Conn.
Duquesne Reduction Co., Pittsburg, Pa.
Fort Wayne Smelting & Refining Works, Fort
Wayne, Ind.
Goldberg & Rathman, 289 Commercial, Boston,
Mass.
Glacomo, San Sons, 9 Abel, Newark, N. J.
Grimm, Paul, 309 Water, New York
Gruenebaum, L., 418 E 7th, Cincinnati, O.
Hofeller, Theo. & Co., Buffalo, N. Y.
Illinois Smelting & Refining Co., 122 N Peoria,
Chicago, Ill.
Kahn Bros., 517 E 19th, New York
Lehman Bros., Hoboken, N. J.
Lake Erie Smelting & Refining Co., Cleveland,
Ohio
London, N., 31 Peck st, New York
Moers, Albert A., 412 Grand, Jersey City, N. J.
Moore, C. W., 39 E Washington, Bridgeport,
Conn.
Peerless Smelting & Refining Co., Phila., Pa.
Sponberg, I., 63 Hudson av, Brooklyn, N. Y.
Smith, Morton B. Co., 243 Front, New York
WALSH'S SONS & CO., Newark, N. J.
(See adv. index, end of book)

Scrap Iron & Steel

(See also Special List of Scrap Brass)
(This list is published for Purchasing Purposes
and comprises only the Largest firms who
make a specialty of Scrap Iron & Steel)

ALABAMA.

BIRMINGHAM—Weller & Co.

CALIFORNIA.

SAN FRANCISCO—Burnstine Bros. Co., 534
Harley, Chas. Co., 844 Harrison Brannan

COLORADO.

DENVER—Consolidated Iron & Metal Co
Denver Metal Co.

CONNECTICUT.

WATERBURY—Waterbury Scrap Iron Co.

DELAWARE.

WILMINGTON—Stirllth Bros.

ILLINOIS.

AURORA—Annenberg, J. D. & Co.
CHICAGO—Blonder Bros., 161 W Chicago av
Bregman, L. I. & Co., 64 Dearborn
Buda Foundry & Mfg. Co., Railway Ex-
change bldg.
Illinois Iron & Metal Co., 183 W Taylor
Joseph, Isaac Iron Co., Monadnock blk
Lanski, I. & Son Co., W 22d cor S Jeff
Levine, A. & Co., 1461 State
Marks, H. & Son, 322 W 14th pl
Morris, S. & Co., 462 S Canal
Ohio Iron & Metal Co., First Natl. Bank
Stern, Harris, 272 S Clinton bldg
Twomey, W. T. & Co., Rookery bldg
Williams, Jacob, 403 S Canal
PEORIA—Cohen, J. & Son
QUINCY—Rupp, Geo. & Bros. Co.
ROCK ISLAND—Morris & Lewis.

INDIANA.

EVANSVILLE—Fligeltaub, Henry

KENTUCKY.

LOUISVILLE—Weber, Simon & Son

LOUISIANA.

NEW ORLEANS—Doran, Wm.
Marx, Alphonse

MARYLAND.

BALTIMORE—Baltimore Iron & Metal Co.,
1620 Gough
Bowman, Wm., 1325 Eastern av.
Monumental Iron & Metal Co., 228 W Pratt
Wehr, H. & Co., Pratt & President
Winternitz, Hiram & Co., 221 S Howard.
Woolford & Thomas, 914 S B'way

MASSACHUSETTS.

BOSTON—Broomfield, Philip & Co. (also
Scrap Rubber), 72 Midway
Doane, G. B. & Son, 18 Midway, S. B.
Houdlette, Fred. A. & Son, 93 Broad
Perry, Wm. H. Co., 43 Stillings
Stewart, Jas. & Co., 240 A. S. B.
Wadman, Vernon S., 38 Burroughs
CAMBRIDGE—Fine, Chas. E. C.
FALL RIVER—Dunn, Wm. J.
FITCHBURG—Hardy, John Co.
LOWELL—Harris, A. J. & Co.
NEW BEDFORD—McCullough, John
SPRINGFIELD—Ehrlich, A. B. & Co.
WORCESTER—Buxton, E. & Son Co.

MICHIGAN.

DETROIT—Cohen, Alex. Iron Co., 20 Franklin
Ginsburg, R. L. Sons Co., 542 Franklin
Goldman, A. & Co., 2580 W Jefferson av
Riverside Scrap Iron & Metal Co.
LANSING—Simon, Abram Iron Co.
SAGINAW—Clinkofstine, Layne S. & Son

MINNESOTA.

MINNEAPOLIS—George, J. W., 717 S 3d

MISSOURI.

ST. LOUIS—Hirsch Rolling Mill Co.
Wertban & Co., ft Dorcas

NEW JERSEY.

HOBOKEN—Lehman Bros.
JERSEY CITY—Contey, Frank Co., 430 Mont-
Jersey Rubber & Metal Co., 164 1st gomery
NEWARK—Benisch, Meyer & Bro.
WALSH'S SONS & CO. (See adv.
index, end of book)
PERTH AMBOY—Gregory, Jno. H.
PHILLIPSBURG—Gibney Iron & Steel Co.
Vetter, Casper & Son

NEW YORK.

BUFFALO—Buffalo House Wrecking & Sal-
vage Co., 491 Walden av
Benjamin Iron & Steel Co., D. S. Morgan
Lichtenstein, M. & Son, 350 Clinton
Michel, Louis, 29 Wash'n
Sukernek, Louis
Ullman, Jacob, 44 Lloyd
NEWBURGH—Hart, Patrick

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Blume, H. & Son, 536 Myrtle av
Samuels, M. & Sons, N 2d
Smith, Thos & Son, 64 Frost
Watson, Andw., 44 Withers

Boroughs of Manhattan & Bronx.

NEW YORK CITY—Blake, M. J. & M., 79
10th av
Continental Iron & Steel Co., 2 Rector
Danvers, R. E., 428 E 18th
Imperial Metal Mfg. Co., 420 E 106th
Jane Old Metal Co., 20 Jane
LEAVITT, C. W. & CO., 30
Church, New York. (See adv. index, end of
book)
Leonard, Jno. & Co., 149 B'way
Lowy, D. & Co., 68 10th av
Metropolitan Iron & Steel Co., 210 11th av
Reiss, Edw. S. & Co., 32 B'way
Seymour, Chas. F., 72 10th av
Smith, Morton B. Co., 243 Front
U. S. Metal & Mfg. Co., 165 Broadway

Borough of Queens.

LONG ISLAND CITY—Daly, Jno. J.
(End of New York City)
TROY—Security Steel & Iron Co.
UTICA—Baxter, T. W. Co.

NORTH CAROLINA.

CHARLOTTE—Yarbrough & Beilinger Co.

OHIO.

AKRON—American Scrap Iron Co. (Rails,
Beams, etc.)
CANTON—Canton Iron & Metal Co.
CINCINNATI—Block Poliak Iron Co., Carthage
Fettig, Jos., 1910 Plum & Steelton
General Supply, Iron, Steel & Rail Co.
Hilb & Bauer, 233 Mill
Hirsch, I. C. Iron, Steel & Rail Co.
Joseph, Isaac Iron Co., 525 Hunt
Klein & Cohn, 830 Wade
CLEVELAND—Cohen, M. & Son Co., 1238-1256
E 55th, N E
Fishbein & Gross, 411-413 Hill av, S E
Fishe & Marks, 3018 E 55th, S E
Hagusky, Jos. & Co., 850 E 67th, N E
Hathaway, A. G. & Co., Cuyahoga bldg
Hirsch, Wm. D. & Co.
Koblitz, Kohn & Co., 1519 B'way, S E
McCarthy, W. B., Rose bldg
Merwin Iron & Metal Co., 1722 Merwin,
Schonthal, Jos., Iron Co. N W
Schwarzenberg, E. A., Garfield bldg
Shaw, A. & Co., 2687 E 40th, S E
Silberman, Morris, Rear 2688 E 23rd, S E
Wilksky, S. & Co., 2732 Croton av, S E
COLUMBUS—Kilbourne, A. W., 450 W Spring
DAYTON—Israel Bros. Iron & Metal Co.
SPRINGFIELD—Landau & Schaedel
TOLEDO—Gerson, I. & Sons
YOUNGSTOWN—Wilkoff Bros. Co.

PENNSYLVANIA.

ALLENTOWN—Sofransky, H. & Co.
ERIE—Brown & Thomas
Quigley, Martin
LANCASTER—Hahn, J. F.
NORRISTOWN—Furlong, Andrew
PHILADELPHIA—Bers, E. & Co., 22 S Del av
Blakey, W. H., 313 Hale bldg
Caine, John J., North American bldg
Cox, J. & Co., Land Title bldg
Cunliffe, Robt. M., 11th & Washington
Dallett & Co., Harrison bldg
De Cou, Richard, 12th & Noble
Dreifus, Chas. Co., Pennsylvania bldg
Dreifus, Emanuel & Co., Arcade bldg
Eckhold's, Wm. Sons, 707 E Girard av
Fraleys, S. C. Sons, 515 Richmond
Gillingham, H. F. & Co., 1013 N Front
Girard Iron & Metal Co., E York & Ara-
mingo av
Goldstein's, L. Sons, 1036 N Front
Heuning, Jno. & Son, 1016 E Susquehanna
Hitner's, Hy. A. Sons Co. (Also Metals,
etc.), Huntington & Aramingo av
Houston, C. B. & Co., Franklin Bank bldg
Johnson, Geo. T. & Co., Penna. bldg
Kaiser, A. V. & Co., Drexel bldg
Keeley, Jerome & Co., 421 Chestnut
Law, Ernest & Co., Harrison bldg
Leaf, E. R. & Co., Real Estate Trust bldg
Mohr, J. J. (Old Car Wheels, etc.), Bullitt
bldg

Newkirk, Jno. B. & Co., Harrison bldg
 Pitt & Co., Real Estate Trust bldg
 Purves Machinery & Iron Co., 17 South
 Samuel, Frank (Firm of), Harrison bldg
 Well, Morris & Sons, 837 N 3d
 Wheeler, Midlin & Co., Arcade bldg
 Wilson, E. H. & Co., Arcade bldg
 Wister, L. & R. & Co., Bldg
 Wood, A. M. Co., Arcade bldg
PITTSBURG—Bell Bros., 27th & A V Ry
 Bowes, Homer, River av & Federal
 Continental Iron & Steel Co.
 Drefus, Chas. Co., Frick bldg
 Fasberg, Samuel, 368 Soho
 Frank, M. K., Frick bldg
 Green, L. A. Co., Park Oldg
 Hausman & Wimmer Co., 111 2nd av
 Higgins, L. J. & Son, Pike nr 18th
 Isay, H. & Bro., 803 Penna av
 Jones, J. B. & Co., 712 Lacock E
 Keystone Iron & Steel Co.
 Koehler, J. P. Co., 2918 Penn av
 Koehler & Streng Co., 2830 Liberty av
 Levinson, Schubb & Caplan, 35 Pride
 McDermott, Jno. J., 31 Water
 McLean, Geo. A. & Co., 915 Beaver av
 McKenney, Wm. G. & Co., 2827 Smallman
 Maloney, T. J., A V Railroad & 29th
 Mark & McKelvey, 37th & Smallman
 Moore, Edgar M. & Co., Farmers' Bank
 Oratto, Frank, 4106 Liberty av bldg
 Riccardino, Angelo, 1014 Webster av
 Ryan & O'Neill, 3137 Spring av
 Sherriff-Kaufman Co., Lewis bldg
 Sorocco, John J., 616 Webster av
 Speer, M. B. & Co., 576 Lacock E
 Streng's, M. Sons Co., River av & Walnut
WILKES-BARRE—Fisher, Louis I.

RHODE ISLAND.

PROVIDENCE—Higgins, J. H. Co.
 Perry, Wm. H. Co.
 Pettis, B. H. Co.

WISCONSIN.

LA CROSSE—La Crosse Scrap Iron & Metal Co.
MILWAUKEE—Jones, E. P. & Bro.

Scrap Rubber

Bers, E. & Co., 22 S Delaware av, Phila., Pa.
 Broomfield, Philip & Co. (Also Scrap Iron &
 Steel), Midway, Boston, Mass.
 Contey, Frank, 430 Mont'g. Jersey City, N. J.
 Green & Shouberg, Morton bldg, New York
 Grimm, Paul, 309 Water, New York
 Hofeller, Theo. & Co., 98 Terrace, Buffalo,
 N. Y.
 Jersey Rubber & Metal Co., 164 1st, Jersey City,
 N. J.
 Kilbourne, A. W., 450 W Spring, Columbus, O
 Lehman Bros., Hoboken, N. J.
 Moers, E. M. Sons, 16 James Slip, New York
 Schwab & Co., Phila., Pa.
 Trenton Scrap Rubber Supply Co., Trenton,
 N. J.
 U. S. Waste Rubber Co., Brockton, Mass
WALSH'S SONS & CO., Newark, N. J.
 (See adv. index, end of book)

*Scrap Tin

WALSH'S SONS & CO., Newark, N. J.
 (See adv. index, end of book)

Scrapers (Asphalt)

Durlach, I. (5-ft. Handle), 54 Vesey, New York

Scrapers (Boiler Flue or Tube)

(See Cleaners, Boiler Flue or Tube)

Scrapers (Box & Plumbers')

Atkins, E. C. & Co. (Floor & Cabinet Bench),
 Indianapolis, Ind.
BERNZ, OTTO, S 13th & S Orange av,
 Newark, N. J. (See adv. index, end of
 book)
 Bradley's, G. W. Sons (Inc.) (Box Only), West-
 port, Conn.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Britt & Page (Universal Wood), Lowell, Mass.
 Browne & Dowd Mfg. Co. (Plumbers), Meri-
 den, Conn.
 Carver Tool Works, Spring Valley, N. Y.
 Chapin-Stephens Co., Pine Meadows, Conn.
 Dicke Tool Co., Downers Grove, Ill.
 Drew, C. & Co., Kingston, Mass.

Johnson, Wm. (Hedenberg Works), Newark,
 N. J.
 Kraeuter & Co., Newark, N. J.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Storiz, Jno. & Son, 210 Vine, Phila., Pa.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Box
 Only), 875 W Carroll av, Chicago, Ill.
 Weston, Thos. B. (Box), 118 Centre Market
 Space, Baltimore, Md.
 Wilcox, Crittenden & Co., Middletown, Conn.

Scrapers (Burning Off)

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Scrapers (Butchers' Block)

Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Browne & Dowd Mfg. Co., Meriden, Conn.
 Chatillon, John & Sons, 85 Cliff, New York
 Hiles, C. A. & Co., 14th & Western av, Chi-
 cago, Ill.
 National Saw Co., Newark, N. J.
 Simonds Mfg. Co., Fitchburg, Mass.
 Specialty Mfg. Co., Hatfield, Pa.
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Vaughan & Bushnell Mfg. Co., Chicago, Ill.

*Scrapers (Cabinet, Etc.)

IRVING MFG. & TOOL CO. (J. F.
 McCoy Co., Prop.), 157 Chambers, New
 York. (See adv. index, end of book)
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)

Scrapers (Coke)

Niles Mine & Mill Supply Co., Williamson
 bldg, Cleveland, O., & Niles, O.
 Solid Steel Tool & Supply Co., Pittsburg, Pa.

Scrapers (Cotton)

Atlanta Agricultural Works ("Atlanta"), At-
 lanta, Ga.
 Avery, B. F. & Sons, Louisville, Ky.
 Blount, Henry F., Evansville, Ind.
 Empire Plow Co. ("Oliver"), Cleveland, Ohio
 Hall, Jas. H. Plow Co., Maysville, Ky.
 Rock Island Plow Co., Rock Island, Ill.
 Southern Plow Co., Columbus, Ga.

Scrapers (Drag Wheel)

(See Road Scrapers, Drag & Wheel)

Scrapers (Floor)

Ackerman, J. B., Grand Rapids, Mich.
 Floor Sanding & Polishing Machine Co., 628
 Race, Phila., Pa.
 Fox Machine Co., Grand Rapids, Mich.
 Fox Mfg. Co., Milwaukee, Wis.
 Hurley Machine Co., 153 S. Jefferson, Chicago,
 Ill.
 Kuster, J. A. ("Common Sense"), Plymouth,
 Wis.
OSBORN MFG. CO. (Iron Head Rub-
 bers), 5401 Hamilton av N E, Cleveland,
 Ohio. (See adv. index, end of book)
 Putnam Mfg. Co. ("Black Hawk"), Daven-
 port, Ia.
 Richards, F. P. Mfg. Co., Springfield, Ill.
 Rudd Mfg. Co. ("X. L."), 232 S Clinton,
 Chicago, Ill.
 Schlueter, M. L., 36 S Canal, Chicago, Ill.
 Star Floor Scraper Co., Elkhart, Ind.
STARRETT, L. S. CO., (For Floors,
 Benches, etc.), Athol, Mass. (See adv.
 index & branch offices, end of book)
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Vaughn & Bushnell Mfg. Co. ("V. & B."
 Steel Blades), 875 W Carroll av, Chicago,
 Ill.
 Weber Mfg. Co. ("Weber" Double Acting),
 West Allis, Wis.

Scrapers (Foot)

Arcade Mfg. Co. ("Arcade"), Freeport, Ill.
 Columbia Grey Iron Co., Columbia, Pa.
 Davis Mfg. Co., Milwaukee, Wis.
 Dosh Mfg. Co. ("Champion"), Bridgeport,
 Conn.
 Griffin Mfg. Co., Erie, Pa.
 Hardware & Woodenware Mfg. Co., 693 B'way,
 New York
 National Mfg. Co., Sterling, Ill.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Pleuger & Henger Mfg. Co., St. Louis, Mo.
 Pratt, Wm. E. Mfg. Co. (Steel), 91 Lake, Chi-
 cago, Ill.
 Reading Hardware Co., Reading, Pa.
 Richards Mfg. Co. (Steel), Aurora, Ill.

Rock River Mfg. Co., Dixon, Ill.
 Root Bros. Co., Plymouth, Ohio
 Schreiber & Concher Mfg. Co., Dubuque, Iowa
 Stearns, E. C. & Co., Syracuse, N. Y.
 Stover Mfg. Co., Freeport, Ill.
 Weller Hardware & Foundry Co. (Cast),
 Horseheads, N. Y.
 Wilcox Mfg. Co. (Steel), Aurora, Ill.
 Williams, A. C. Co., Ravenna, O.

Scrapers (Hog)

Hiles, C. A. & Co., 14th & Western av, Chi-
 cago, Ill.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Sheet
 Steel), 875 W Carroll av, Chicago, Ill.

Scrapers (Ice Cream Can)

Stortz, John & Son, 210 Vine, Phila., Pa.

Scrapers (Kettle)

(See Scrapers, Pot & Kettle)

Scrapers (Miners')

(See Miners' Needles & Scrapers)

Scrapers or Cleaners (Track)

(See Cleaners, Track)

Scrapers (Painters' & Paper-hangers')

Browne & Dowd Mfg. Co., Meriden, Conn.
 McNiece, Wm. & Son, 515 Cherry, Phila., Pa.

*Scrapers (Pipe Line)

PETROLEUM IRON WORKS CO.
 ("The Klein"), Sharon, Pa., & Farmers'
 Bank bldg, Pittsburg, Pa. (See adv. index,
 end of book)

Scrapers (Pot & Kettle)

Browne & Dowd Mfg. Co. ("Gem"), Meriden,
 Conn.
 Buckeye Mfg. Co., Canton, O.
 Christy Knife Co. ("Eclipse" Flexible), Fre-
 mont, O.
 Kohler, F. E. & Co. (Flexible), Canton, O.
 Rocky Hill Hardware Co., Rocky Hill, Conn.
 Stortz, John & Son, 210 Vine, Phila., Pa.

Scrapers (Road & Pavement)

Straff & Sanford Co. ("Barnard Castle"), 18
 W 34th, New York

*Scrapers (Self-Filling)

LIDGERWOOD MFG. CO., 96 Liberty,
 New York, & Old Colony bldg, Chicago, Ill.
 (See adv. index & branch offices, end of book)

Scrapers (Ship)

AMERICAN TAP & DIE CO., Greenfield,
 Mass. (See adv. index, end of book)
 Bradley's, G. W. Sons (Inc.), Westport, Conn.
 Mack & Co., Rochester, N. Y.
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875
 Carroll av, Chicago, Ill.
 Wilcox, Crittenden & Co., Middletown, Conn.

Scrapers (Sidewalk)

(See also Cleaners, Pavement)

Jackson Shovel & Tool Co. (Steel), Montpelier,
 Ind.
 Kohler, F. E. & Co. (Steel), Canton, O.
 Maynard, C. A., Northampton, Mass.
 Pittsburg Shovel Co., Pittsburg, Pa.
 Union Furnace Mfg. Co., Union Furnace, Pa.

Scrapers (Snow)

Hiles, C. A. & Co., 14th & Western av, Chi-
 cago, Ill.
 Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.

Scrapers (Stove)

Fanner Mfg. Co., Cleveland, O.
 Lanson & Sessions Co., Cleveland, O.
 Ohio Nut & Bolt Co., Berea, O.
 Wire Goods Co. (For Stove Flues), Worcester,
 Mass.

Scrapers (Wall)

Bonney Vise & Tool Works (Steel), Allentown, Pa.

Kohler, F. E. & Co., Canton, O.
Ontario Knife Co., Franklinville, N. Y.
Richard, Stephen Co. ("S. R."), Southbridge, Mass.
Stortz, John & Son, 210 Vine, Phila., Pa.
White, Ira F. & Son Co., Newark, N. J.

Scrapers (Wire)

Dicke, C. H. Tool Co. ("Perry"), Downers Grove, Ill.
Klein, Mathias & Sons, 87 W Van Buren, Chicago, Ill.
Sibley & Pitman ("Climax"), 26 Warren, New York

Screen Door Checks

Arcade Mfg. Co. ("The Warner"), Freeport, Ill.
Caldwell Mfg. Co. ("Caldwell & Dime"), Rochester, N. Y.
Sargent & Co. ("The No Slam"), New Haven, Conn.

***Screens (Bank Counter)**

ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)
ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
JACKSON, WM. H. COMPANY (A Specialty), 29 E 17th (Union Sq.), New York & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)
STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)
WINSLOW BROS. CO., Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Screens (Clay & Cement)

American Clay Working Machinery Co., Bucyrus, O.
Chambers Bros. Co. ("H. G. Virgln." "Elder & Dunlap") 52d, bel. Lancaster av., Philadelphia, Pa.
Cross Engineering Co., Carbondale, Pa.
Dunlap Mfg. Co., Bloomington, Ill.
ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.
Raymond, C. W. Co., Dayton, O.
Traylor Engineering Co., Allentown, Pa.

Screens (Coal)

(See Screens, Sand Coal & Gravel; also Screens, Revolving & Shaping)

Screens (Cylindrical)

Hendrick Mfg. Co., Carbondale, Pa.
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
Johnston & Chapman Co. ("John O'Laughlin's"), 1333 Carroll av., Chicago, Ill.

Screens (Disintegrating)

American Concentrator Co. ("New Century") Basic City, Va.

Screens (Door)

(See Screens, Window & Door)

Screens (Fire Place)

(See Fire Place Furnishings)

Screens for Water Works

Caldwell-Wilcox Co. (For Purifying Water), Newburgh, N. Y.

***Screens (Fly, Rustless)**

BURROWES, E. T. CO., THE, 70 Free, Portland, Me. (See adv. index & branch offices, end of book)

Screens (Foundry)

Buffalo Wire Works Co., 316 Terrace, Buffalo, N. Y.
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)
ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
MEYERS, FRED. J. MFG. CO., Hamiltou, O. (See adv. index, end of book)
Standard Sand & Machine Co. (Power or Hand) 5157 St. Clair, Cleveland, O.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

***Screens (Insect, Wire)**

BURROWES, E. T. CO., THE, Portland, Me. (See adv. index & branch offices, end of book)

Screens (Mining)

Altchison Perforating Co., 303 Dearborn, Chicago, Ill.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Concentrator Co. ("New Century" Disintegrating & "Henry" Classifying & Sizing), Joplin, Mo.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill.
Buffalo Wire Works Co., Buffalo, N. Y.
California Perforating Screen Co., 147 Beale, San Francisco, Cal.
Carbondale Machine Co., Carbondale, Pa.
Chalmers & Williams, Commercial Natl. B'k bldg, Chicago, Ill.
Clinton Wire Cloth Co., Clinton, Mass.
Colorado Iron Works Co., Denver, Col.
Connellsville Machine & Car Co., Connellsville, Pa.
Cross Engineering Co., Carbondale, Pa.
Danville Foundry & Machine Co., Danville, Ill.
Davis, F. M. Iron Works Co., 8th & Larimer, Denver Eng. Works Co., Denver, Col.
Eagle Iron Works (Shaking, etc.), Terre Haute, Ind.
Earlington Iron Works (For Coal, etc.), Earlington, Ky.
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)
ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)
Fairmont Mining Machinery Co., Fairmont, W. Va.
HANKE IRON & WIRE WKS., 1234 Fillmore, Chicago, Ill. (See adv. index, end of book)
Harrington & King Perforating Co., 224 N Union, Chicago, Ill.
Helmick Foundry & Machine Co., Fairmont, W. Va.
Hendrick Mfg. Co., Carbondale, Pa.
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
JEFFREY MFG. CO., (For Coal, Ores, etc.), Columbus, O. (See adv. index & branch offices, end of book)
LANDON, E. R. IRON & WIRE Works, 18 N May, Chicago, Ill. (See adv. index, end of book)
Littleford Bros., 453 E Pearl, Cincinnati, O.
Lucas, A. & Sons (Coal Mine Shaking), Peoria, Ill.
Indlow-Saylor Wire Co. (Double Crimped), St. Louis, Mo.
McFarlane Mfg. Co., Denver, Col.

MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Mecklenburg Iron Works, Charlotte, N. C.

MEYERS, FRED. J. MFG. CO., Hamiltou, O. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

Mine & Smelter Supply Co., Blake & 11th, Denver, Colo.

Morse Bros. Machinery & Supply Co. ("Wild"), Denver, Col.

Mundt, Chas. & Sons, 441 Pearl, New York

Nelsonville Foundry & Machine Co. (Bar & Revolving), Nelsonville, O.

Niles Mine & Mill Supply Co., Niles, O.

Power & Mining Machinery Co., Cudahy, Wis.

Prox, Frank Co., Terre Haute, Ind.

San Francisco Pioneer Screen Works, 221 1st, San Francisco, Cal.

Scottdale Foundry & Machine Co., Scottdale, Pa.

Stephens-Adamson Mfg. Co., Aurora, Ill.

Traylor Engineering Co., Allentown, Pa.

Traylor, John A., 1634 Blake, Denver, Colo.

TYLER, W. S. CO., Cleveland, O. & 11 B'way, New York. (See adv. index & branch offices, end of book)

Urie-Snyder Iron Works Co., Kansas City, Mo.

Vulcan Iron Works, Wilkes-Barre, Pa.

West Pittston Screen Works (Wire Coal Screens), West Pittston, Pa.

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Screens (Revolving Water)

Sandy Hill Iron & Brass Works, Sandy Hill, N. Y.

Screens (Revolving & Shaking)

Acme Road Machinery Co., Frankfort, N. Y.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Pulverizer Co. ("American" Revolving), St. Louis, Mo.

American Road Machine Co., Kennett Square, Pa.

BARTLETT, C. O. & SNOW CO. ("Triumph" Revolving for Slack Coal, etc.), French st, Cleveland, O. (See adv. index, end of book)

Bonnot Company (Clay Working), Canton, O.

CARLIN'S, THOS. SONS CO. (Revolving Only), 1610 River av., North Side, Pittsburg, Pa. (See adv. index, end of book)

Chalmers & Williams (Revolving for Wet Sizing, etc.), Commercial Nat. B'k bldg., Chicago, Ill.

Cross Engineering Co., Carbondale, Pa.

Day, J. H. Co. (Sands, Clay, etc.), Cincinnati, Ohio

Eagle Iron Works, Terre Haute, Ind.

ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)

Exeter Machine Works, Pittston, Pa.

Ilaiss, Geo. Mfg. Co. (Revolving Only), 141st & Rider av, New York

Harrington & King Perforating Co., 224 N Union, Chicago, Ill.

Helmick Foundry & Machine Co., Fairmont, W. Va.

Hendrick Mfg. Co. (Revolving Only), Carbondale, Pa.

HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)

JEFFREY MFG. CO., (All kinds, of Any Capacity), Columbus, O. (See adv. index & branch offices, end of book)

Krom Machine Works (Self-Cleaning Revolving), 170 B'way, New York; Works: Jersey City, N. J.

Link Belt Co., W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York

Littleford Bros., 453 E Pearl, Cincinnati, O.

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

MEYERS, FRED. J. MFG. CO., Hamiltou, O. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

Mundt, Chas. & Sons, 441 Pearl, New York

Nelsonville Fdry. & Mach. Co., Nelsonville, O.

O'Laughlin, John, Stone Co. (Revolving for Stone, Gravel, Sand, Coal, etc.), Racine, Wls.
 Pacific Tank Co., Los Angeles, Cal.
 Prox, Frank Co., Terre Haute, Ind.
 Sackett, H. B., Screen & Chute Co., 4220 State, Chicago, Ill.
 San Francisco Pioneer Screen Works, 2221 1st, San Francisco, Cal.
 Steele & Condit (Inc.) ("Condit," Roller Bearing Revolving), Jersey City, N. J.
 Taylor Iron & Steel Co. (Revolving & Flat), High Bridge, N. J.
TYLER, W. S. CO. (Revolving Only), Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)
 Union Iron Works Co., San Francisco, Cal.
 Universal Road Machinery Co., 120 Liberty, New York
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Wallace, Saml., White Haven, Pa.
 Western Wheeled Scraper Co., Aurora, Ill.

Screens (Roller Window)

Purinton, C. F. Co., South Easton, Mass.
 Roller Window Screen Co., Hillsdale, Mich.

*Screens (Rolling)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Screens (Safe Deposit)

(See Screens, Bank Counter)

Screens (Sand, Coal & Gravel)

Altholson Perforating Co., 303 Dearborn, Chicago, Ill.
 Atlanta Wire & Iron Works Co., Atlanta, Ga.
 Barnum, E. T. Wire & Iron Works, 82 Washington av., Detroit, Mich.
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
 Barker, S. G. & Son (Coal Only), Scranton, Pa.
BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
 Buffalo Wire Works Co., Buffalo, N. Y.
 Cable, Wm. Excelsior Wire Mfg. Co., 43 Fulton, New York
 California Perforating Screen Co., Howard & Fremont, San Francisco, Cal.
 Carbondale Macblue Co., Carbondale, Pa.
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
 City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.
 Clinton Wire Cloth Co., Clinton, Mass.
 Cross Engineering Co., Carbondale, Pa.
DARBY, EDWARD & SONS CO., 239 Arch, Phila, Pa. (See adv. index, end of book)

Earlington Iron Works, Earlington, Ky.
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)

ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)
 Gilbert & Bennett Mfg. Co., Georgetown, Conn.
 Harrington & King Perforating Co., Chicago, Ill.

Helmick Foundry & Machine Co., Fairmont, W. Va.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of index of Contents)

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

JEFFREY MFG. CO., ("Standard"), Columbus, O. (See adv. index & branch offices, end of book)

Littleford Bros., 453 E Pearl, Cincinnati, O.

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

Morss & Whyte Co., 75 Cornhill, Boston, Mass.

Mundt, Chas. & Sons, 441 Pearl, New York

Phillips Mine Supply Co., Pittsburgh, Pa.

New Jersey Wire Cloth Co., Trenton, N. J.

Sackett Screen Co. (Steel Coal Screens Only), Fredonia, N. Y.

Schalkenbach & Budke, Jersey City, N. J.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Syracuse Wire Works, Syracuse, N. Y.

TAYLOR & DEAN, Penn av. & 25th, Pittsburgh, Pa. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Union Steel Screen Co. (Ltd.), ("Union" Sand & Gravel), Albion, Mich.

Vulcan Iron Works, Wilkes-Barre, Pa.

WEBSTER MFG. CO., 1075 W. 15th, Chicago, Ill., & 88 Rende, New York. (See adv. index & branch offices, end of book)

What Cheer Wire Works, Providence, R. I.

Wickwire Bros., Cortland, N. Y.

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wls. (See adv. index, end of book)

WRIGHT WIRE CO. (Also Revolving), Worcester, Mass. (See adv. index & branch offices, end of book)

Screens (Steam Pipe Covering)

Tuttle & Bailey Mfg. Co. (Cast Brass, Bronze & Iron & Wrought Steel), 83 Beekman, New York

Screens (Stone)

(See Screens, Revolving & Shaking)

Screens (Suction)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Sandy Hill Iron & Brass Works ("Packers" Diaphragm for Paper Mills), Sandy Hill, N. Y.

*Screens (Vibrating)

JEFFREY MFG. CO., ("Jeffrey"), Columbus, O. (See adv. index & branch offices, end of book)

Screens (Well)

Johnson, E. E. ("Johnson"), St. Paul, Minn.
 Layne & Bowler Co. (For Irrigation Wells), Houston, Tex.

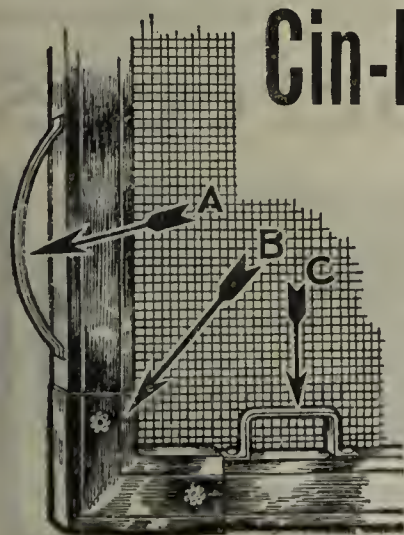
Screens (Window, Metal Frame)

American Screen Co., Brookline, Mass., & 95 Liberty, New York
 Baker, W. J. Co., Newport, Ky.
CINCINNATI MFG. CO., ("Cin-Man-Co."), 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
 Continental Co. (Wholesale Mfrs.), Detroit, Mich.
 Higgin Mfg. Co., Newport, Ky.
 Metal Screen & Mfg. Co., St. Paul, Minn.
 Metallic Screen Co. (Adjustable), Collins, Wls.
 Snow, Fred O. & Co., 17 Milk, Boston, Mass.
 Standard Stamping Co. ("Armstrong"), (Made to Order Only), 2000 N B'way, St. Louis, Mo.
TAYLOR & DEAN, Penn av. & 25th, Pittsburgh, Pa. (See adv. index, end of book)
 Watson Mfg. Co., Jamestown, N. Y.

Screens (Window & Door)

(Wholesale Manufacturers are so Indicated Between their Name & Address)

American Screen Co. (Wholesale Mfrs.), Brookline, Mass.
 American Window Screen Co., Ionic c S American, Phila., Pa.
 Baker, W. J. Co. (Metal Frame), Newport, Ky.
 Eastwick-Godell Co., Norwalk, O.
 Burlington Venetian Blind Co., Burlington, Vt.
BURROWES, E. T. CO. THE (Mfrs.), also Wire Insect Screens, Rustless, 70 Free, Portland, Me. (See adv. index & branch offices, end of book)
 Cincinnati Fly Screen Co., Cincinnati, Ohio
CINCINNATI MFG. CO., (Metal, to Order Only), 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
 City Sash & Door Co., Minneapolis, Minn.
 Continental Co. (Metal & Wood, Wholesale Mfrs.), Detroit, Mich.
 Curtis & Yale Co. (Wholesale Mfrs.), Wausau, Wis.
 Dallas Screen Co., Dallas, Tex.
 DeWitt Wire Cloth Co., 631 Market, Philadelphia, Pa.
 Fish, A. E. & Co., Keene, N. H.
 Fuller & Rice Lumber & Mfg. Co. (Wholesale), Grand Rapids, Mich.
 Grand Rapids Screen Co., Grand Rapids, Mich.
 Higgin Mfg. Co. (Metal Frame), Newport, Ky.
 Hipolito Screen & Sash Co., Los Angeles, Cal.
 Huebner Screen Door Co., Farmsworth av & Dequindre, Detroit, Mich.



Cin-Man-Co REWIRABLE METAL FRAME FLY SCREENS

Are strong, durable and ornamental. Will not rot, warp, shrink or swell. Work easy in wet or dry weather; easily taken apart and rewired. Made sliding or hinged and in any mesh, size or shape desired—basket, circle, segment top, bow or bull's-eye.

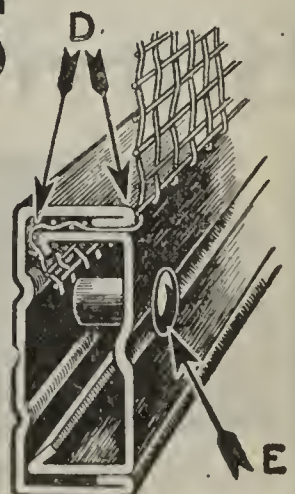
Cut to right shows frame construction and method of securing wire cloth, held by rounded corners, forming a perfect water shed. Open rivets are easily removed for rewiring. Cin-Manco Bronze wire cloth (90 per cent. copper) is rustless in any climate.

Cut to left shows reinforced corners, stationary bronze lift, always out of the way. Frame is equipped with durable detachable spring for holding screen in place.

We make to order window, door or porch screens for the home, office, club or public buildings. Write to-day for catalog and estimate on your work.

(ORNAMENTAL IRON AND BRONZE)

The Cincinnati Mfg. Co. 1260 W. Sixth Street, Cincinnati, O.



Introstyle & Novelty Co., Marletta, O.
Kane Blind & Screen Co., Kane, Pa.

Maclaren & Sprague Lumber Co. (Wholesale), Toledo, O.

McMillan, R. Co. (Wholesale), Oshkosh, Wis.
Menke-Grimm Planing Mill Co., Quincy, Ill.

MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO., 500
Howard, Detroit, Mich. (See adv. index, end of book)

Monroe Screen, Blind & Partition Co., Lima, O.
Morgan Co., Factory & General Offices: Oshkosh, Wis.

Owosso Mfg. Co. (Adjustable Frames) (Wholesale Mfrs.), Owosso, Mich.

Penna. Woven Wire Co., Lock Haven, Pa.

Phenix Mfg. Co. (Also Swinging Half, Silding, etc., Wholesale Mfrs.), Humboldt av cor Centre, Milwaukee, Wis.

Philadelphia Screen Mfg. Co. (Wholesale Mfrs.), Paschall av & 56th, Phila., Pa.

Phillips, A. J. Co. (Made to Order), Fenton, Mich.

Porter Screen Mfg. Co. (Wholesale Mfrs.), Trenton, N. J., & Winooski, Vt.

Purinton, C. F. Co. ("Roll-a-way"), South Easton, Mass.

Riggs Cypress Co. (Wholesale Mfrs.), Patterson, La.

Roach & Musser, Sash & Door Co. (Wholesale Mfrs.), Muscatine, Iowa.

Robbins Mfg. Co., 968 N. Central av, Chicago, Ill.

Roebuck Weather Strip & Wire Screen Co., 419 Hamilton av, Brooklyn, N. Y.

Schumacher, F. E. Co., Hartville, O.

Snow, Fred O. & Co., 17 Milk, Boston, Mass.

Solmsen, M. Flynn Screen Co. (Rustless), cor Bayard & Nanticoke, Baltimore, Md.

Standard Stamping Co. ("Armstrong"), Marysville, O.

Sunset Door & Sash Co. (Wholesale Mfrs.), Stockton, Cal.

TAYLOR & DEAN (Made to Order)
Penn av & 25th, Pittsburg, Pa. (See adv. index, end of book)

Wabash Screen Door Co., 115 Adams, Chicago, Ill.

Watson Mfg. Co. (To Order Only, All Metal, also Wood), Jamestown, N. Y.

Wheeler Screen Co., Geneva, Ill.

Willer Mfg. Co. (To Order Only), Milwaukee, Wis.

WILSON, JAS. G. MFG. CO., Chief Office
3 West 29th, New York, Mills & Factory, Norfolk, Va. (See adv. index, end of book)

*Screens (Wire, Rustless)

BURROWES, E. T. CO., THE (Rustless), 70 Free, Portland, Me. (See adv. index & branch offices, end of book)

CINCINNATI MFG. CO., (Metal Frame), 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

Screw Chasers

Polk, A. J. & Son, (Lathe Screw Cutting, etc.), Millersburg, Pa.

Screw Driver Mfrs.

Arcade Mfg. Co. ("Serpentine," "Arcade" & "Combination"), Freeport, Ill.

BERNZ, OTTO, S 13th, cor S. Orange av,
Newark, N. J. (See adv. index, end of book)

Billings & Spencer Co. ("B. & S." Magazine Combination Knife & Screw Driver, etc.), Hartford, Conn.

Braunsdorf-Mueller Co. ("Never Twist," "New Century" & "Improved Locksmith"), Elizabeth, N. J.

Bridgeport Hdwe. Mfg. Co., 481 Iranistan av Bridgeport, Conn.

Brown, R. H. & Co. ("Clark's"), New Haven, Conn.

Browne & Dowd Mfg. Co. ("I. L."), Meriden, Conn.

Buffalo Specialty Co. (Leather Handle), Buffalo, N. Y.

Burgess-Norton Mfg. Co. ("Bur-Nor" Folding), Geneva, Ill.

Cassady-Fairbank Mfg. Co. ("Cassady," "Premier," "Columbia" & "No. 100 & 200"), 6106 La Salle, Chicago, Ill.

Cincinnati Tool Co. ("Hargraves"), Norwood, Cincinnati, O.

Clement Mfg. Co. ("Vulcan" Hollow Handle), Northampton, Mass.

Crescent Tool Co., Jamestown, N. Y.

Cronk & Carrier Mfg. Co., Elmira, N. Y.

Dicke Tool Co. (For Electrical & Machinery Work), Downers Grove, Ill.

Disston, Henry & Sons (Inc.), Phila., Pa.

Ducharmes & Co., Shelburne Falls, Mass.

Elmore Tool Mfg. Co. ("Elmore" Square Shank), Hartford, Conn.

Gay, Geo. E. ("Gay" & "Union" Double Acting Ratchet, Screw Driver & Drill Combined, "Gay's" Ratchet Spiral Rigid Screw Driver & Drill), Augusta, Me.

IRVING MFG. & TOOL CO. (J. F. McCoy Co., Props.), 157 Chambers, New York. (See adv. index, end of book)

Johnson, Wm. (Hedberg Works), (In great Variety), Newark, N. J.

Kendrick & Davis (Small), Lebanon, N. H.

Kimball, C. J. Co., Bennington, N. H.

Knapp & Cowles Mfg. Co., Bridgeport, Conn.

Mayhew, H. H. Co., Shelburne Falls, Mass.

Meriden Mfg. Co. ("Fairchild" Self Adjustable), Meriden, Conn.

Miller's Falls Co. (Ratchet, Duplex & Automatic, In & Out), 28 Warren, New York. Works: Miller's Falls, Mass.

Mueller, H. Mfg. Co., Decatur, Ill.

New England Specialty Co., N. Easton, Mass.

NIAGARA HANDLE & FERRULE CO., 321 Holliday, Baltimore, Md. (See adv. index, end of book)

North Bros. Mfg. Co. ("Yankee" Ratchet & Pocket Magazine, etc.), Lehigh av c Ameri-can, Phila., Pa.

Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.

Rehm Hardware Co. (Pocket), 352 Blue Island av, Chicago, Ill.

Reid, A. H. Creamery & Dairy Supply Co. ("Reid" Automatic), 69th & Haverford, Phila., Pa.

Russell & Erwin Mfg. Co. ("The Swan"), New Britain, Conn., & 196 Lafayette, New York

S. & I. Co. ("S. & I. Never Break"), Springfield, Mass.

Sawyer Tool Mfg. Co. ("Samson"), Fitchburg, Mass.

Smith, H. D. & Co. ("Perfect Handle," Drop Forged), Plantsville, Conn.

Smith, J. Barton Co., Norrlis & Hoop, Phila., Pa.

Smith & Egge Mfg. Co., Bridgeport, Conn.

Smith & Hemenway Co., 108 Duane, New York

Small Mfg. Co., Fiskdale, Mass.

STARRETT, L. S. CO., (Pocket Jewelers, etc.), Athol, Mass. (See adv. index & branch offices, end of book)

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Swan, Jas. Co., Seymour, Conn.

Swift-Waters Mfg. Co. (Interchangeable), Kensington, Conn.

Syracuse Twist Drill Co. (Knurl Tool Makers), Syracuse, N. Y.

Tower & Lyon Co. ("Champion"), 95 Chambers

Tuck Mfg. Co., Brockton, Mass. New York

Turner & Deegan, Bristol, Conn.

Union Mfg. Co., Buffalo, N. Y.

United Awl & Needle Co., Boston, Mass.

Vanderbeck Tool Works (Combination), Hartford, Conn.

Vaughn, Chas. A., Seitzland, Pa.

Waltham Watch Tool Co., Springfield, Mass.

WHITMAN & BARNES MFG. CO. (" Hercules," all Steel), Chicago, Ill. (See adv. index & branch offices, end of book)

Wiebusch & Illger ("Fairchild Adjustable"), 106 Lafayette, New York

Wichus & Illger ("Fairchild Adjustable"), 106 Lafayette, New York

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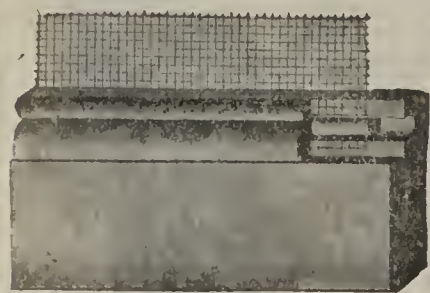
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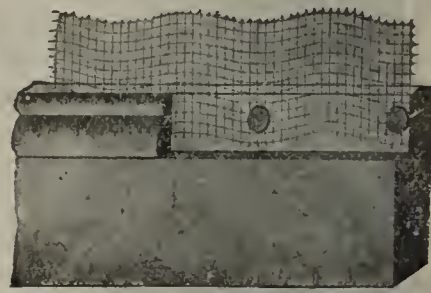
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Washburn Shops of the Polytechnic Institute,
Worcester, Mass.

Screw Eyes

American Iron & Steel Mfg. Co., Lebanon, Pa.
Brewer Bros. (Wrought), 614 Filbert, Phila., Pa.

Brooks, M. S. & Sons (Brass & Iron Wire)
Chester, Conn.

Corbin Cabinet Lock Co., New Britain, Conn.
Hamblin & Russell Mfg. Co., Worcester, Mass.

Humason & Beckley Mfg. Co., New Britain, Conn.

Hoopes & Townsend Co., 1330 Buttonwood, Philadelphia, Pa.

Jenekes, E. Mfg. Co. (Brass & Bright Wire),
Pawtucket, R. I.

Kansas City Bolt & Nut Co. (1 1/4-in. dia. to
1 1/2), Kansas City, Mo.

Landers, Frary & Clark, New Britain, Conn.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

North & Judd Mfg. Co. (Loop, etc.), New
Britain, Conn.

Sargent & Co., New Haven, Conn. & 94
Center, New York

TURNER & SEYMOUR MFG. CO.,
Torrington, Conn. (See adv. index, end
of book)

Wilcox, Crittenden & Co., Middletown, Conn.
Wire Specialty Co., 43 Fulton, Chicago, Ill.

Wire Goods Co. (Bright Wire & Brass Wire),
Worcester, Mass.

***Screw Driver & Holder**

STARRETT, L. S. CO. (Opticians'),
Athol, Mass. (See adv. index & branch of-
fices, end of book)

Screw Jacks

(See Jacks, Screw)

Screw Machine Products

Acorn Brass Mfg. Co., 203 Fulton, Chicago, Ill.
Anthony Screw Co., Worcester, Mass.

Atlantic Machine Screw Co., Boston, Mass.
Barnes, Wallace Co., Bristol, Conn.

Bowen Mfg. Co. (All Kinds in Brass & Steel),
Auburn, N. Y.

Clark Novelty Co., Rochester, N. Y.
Crescent Tool Co., Jamestown, N. Y.

Delaware Marine Supply Mfg. Co., Wilmington.
Eclipse Machine Co., Elmira, N. Y.

Globe Machine & Stamping Co., Cleveland, O.
Grant Mfg. & Machine Co., Bridgeport, Conn.

Hanson Bros., Plainville, Conn.
Hartford Machine Screw Co. (From All Metals),
Hartford, Conn.

International Brass & Electric Co., 76 Beck-
man, New York

KEIM, JNO. R. MILLS (Inc.), Buf-
falo, N. Y. (See adv. index, end of book)

Manhattan Screw & Stamping Works, West End
av & 67th, New York

Mossberg, Frank Co., Attleboro, Mass.
NATIONAL ACME MFG. CO., 75

Stanton av, S E, Cleveland, O. (See adv.
index & branch offices, end of book)

New Haven Machine Screw Co., New Haven,
Conn.

NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See
adv. index, end of book)

Parham & Lawser, 712 Cherry, Phila., Pa.
Perry-Fay Mfg. Co. (Of All Kinds), Elyria, O.

PHILADELPHIA MACHINE SCREW
Works, Race & Sheridan Phila., Pa. (See
adv. index, end of book)

Progressive Mfg. Co. (Steel, Brass & Copper,
Studs, Screws, Rivets, Threaded Wire,
etc., to Order Only), Torrington, Conn.

Quadruga Mfg. Co., 18 S Canal, Chicago, Ill.
Reed & Prince Mfg. Co., Worcester, Mass.

Risser Mfg. Co. (Screw Machine Work), 301
W Lake, Chicago, Ill.

Screw Machine Products Co. (Brass or Steel),
Providence, R. I.

Smith, F. H. Mfg. Co. (Special to Order), 52
St. John st, Chicago, Ill.

Wells, F. E. & Son Co., Greenfield, Mass.

Screw Machinery

(See Screw Cutting Machines; Screw Polishing
Machines; Screw Shaving Machines; Screw
Slotting Machines; Screw Thread Rolling
Machines)

Screw Mfrs.

(Under this Heading see Sub-classifications)

American Iron & Steel Mfg. Co., Lebanon, Pa.
American Screw Co. (Brass, Bronze, Copper &
Iron), Providence, R. I.

Anthony Screw Co., Worcester, Mass.
Atlantic Screw Works, Hartford, Conn.

ATLAS BOLT & SCREW CO., THE,
Marquette opp Hamilton av, N E, Cleveland,
O. (See adv. index, end of book)

Blake & Johnson Co., Waterbury, Conn.
Boston Bolt Co., 40 Farnsworth, Boston, Mass.

Chapin-Stephens Co., Pine Meadow, Conn.
Chicago Nut Co., 118 W Jackson boul, Chi-
cago, Ill.

Chicago Screw Co., 519 Homan av, Chicago,
Ill.

Cincinnati Screw & Tap Co., Twilghtwee, O.
Clark Bros. Bolt Co., Milldale, Conn.

Colorado Fuel & Iron Co., Denver, Col.
Columbia Screw Co., 106th & Cottage Grove
av, Chicago, Ill.

Columbus Bolt Works, Columbus, O.
Continental Bolt & Iron Works 22d & Union,
Chicago, Ill.

Corbin Screw Corporation, New Britain, Conn.
DETROIT SCREW WORKS, Detroit,
Mich. (See adv. index, end of book)

Eastern Bolt & Nut Co., Providence, R. I.
Equipoise Rivet Co., Waterbury, Conn.

Ferry Cap & Set Screw Co. (Steel & Brass),
2151 Scranton rd, Cleveland, O.

Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
Greenlee, Wyatt & Co., 499 Water, New York

Hall's Samuel Sons, 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

Hoopes & Townsend Co., 1330 Buttonwood,
Philadelphia, Pa.

Hope, Wm. H. & Co. (Milled, etc.), Lowell,
Mass.

Hubbell, Harvey, Bridgeport, Conn.
Humason & Beckley Mfg. Co., New Britain,
Conn.

Kansas City Bolt & Nut Co., Kansas City, Mo.
KEIM, JNO. R. MILLS, (Inc.), Buf-
falo, N. Y. (See adv. index, end of book)

Kirk-Latty Mfg. Co., Cleveland, O.
Lamson & Sessions Co., Cleveland, O.

Michigan Bolt & Nut Works, Detroit, Mich.
Miles, Franklin S. (Est. of), 205 Quarry, Phila.,
Pa.

Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

NATIONAL-ACME MFG. CO., 7500
Stanton av, S E, Cleveland O. (See adv.
index & branch offices, end of book)

National Bolt & Nut Co., Pittsburg, Pa.
National Screw & Tack Co., Cleveland, O.

Niagara Screw Co., 7 W. Lombard, Buffalo,
N. Y.

Pawtucket Mfg. Co., Pawtucket, R. I.
Peck, Stow & Wilcox Co., Southington, Conn.

Penn Hardware Co., Reading, Pa.
Perry-Fay Mfg. Co., Elyria, O.

PHILADELPHIA MACHINE SCREW
Works, Race & Sheridan, Phila., Pa. (See
adv. index, end of book)

Pittsburg Mfg. Co., Pittsburg, Pa.
Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Progressive Mfg. Co., Torrington, Conn.
Quadruga Mfg. Co., 18 S Canal, Chicago, Ill.

Reading Hardware Co., Reading, Pa.
Reading Screw Co., Norristown, Pa.

Reed & Prince Mfg. Co., Worcester, Mass.
Reeves Mfg. Co. (Brass Machine, etc.), New
Haven, Conn.

Republic Iron & Steel Co., Pittsburg, Pa.
Reynolds & Co., New Haven, Conn.

Richards, F. C. Hdw. Co., Winsted, Conn.
Rochester Machine Screw Co., Rochester, N. Y.

Rogers Screw Co., Providence, R. I.
Russell, Burdell & Ward Bolt & Nut Co.,
Port Chester, N. Y.

Scranton Bolt & Nut Co., Scranton, Pa.
St. Louis Screw Co., St. Louis, Mo.

Smith, F. H. Mfg. Co. (Special to Order), 52
St. John st, Chicago, Ill.

Southington Cutlery Co., Southington, Conn.
Springfield Brass Co., Springfield, Mass.

Standard Screw Co., 6 Madison, Chicago, Ill.
Steele & Johnson Mfg. Co., Waterbury, Conn.

Turner, John D., 542 B'way, Lowell, Mass.
Waltham Screw Co., Waltham, Mass.

Waterbury Mfg. Co., Waterbury, Conn.
Western Automatic Mach. Screw Co., Elyria, O.

Wire Goods Co., 20 Union, Worcester, Mass.
Worcester Machine Screw Co., Worcester,
Mass.

Young Bros., Forestville, Conn.

Screw Plates

(See also Stocks & Dies)

AMERICAN TAP & DIE CO. ("Adamant-
tine"), Greenfield, Mass. (See adv. index,
end of book)

Billings & Spencer Co. ("Standard," "Billings"
Drop Forged), Hartford, Conn.

Boker, Hermann & Co., 101 Duane, New York.
Brubaker, W. L. & Bros., Millersburg, Pa.

Butterfield & Co. ("Derby," "Reece's New"),
Derby Line, Vt.

Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co. ("Carpen-
ter's"), Pawtucket, R. I.

Champion Blower & Forge Co., Lancaster, Pa.
Conant & Donelson Co. ("Little David"),
Greenfield, Mass.

Eastwood Wire Mfg. Co. (Rolled Brass), Belle-
ville, N. J.

Hart Mfg. Co. ("Duplex"), Cleveland, O.
Holroyd & Co. ("Holroyd"), Waterbury, N. Y.

MORSE TWIST DRILL & MACHINE CO.
("No. 1, A, B, C, D & E"), New Bed-
ford, Mass. (See adv. index, end of book)

Oster Mfg. Co., Cleveland, O.
Pawtucket Mfg. Co., Pawtucket, R. I.

Polk, A. J. & Son ("Common Sense"), Mil-
lerville, Pa.

Pratt & Whitney Co., Hartford, Conn.
Reese, E. F. Co. ("Reese" & "Hercules," Full
Mounted), Greenfield, Mass.

SMART, A. J. MFG. CO., ("Smart"),
Greenfield, Mass. (See adv. index, end
of book)

Superior Tap Co., Springfield, Vt.
Walworth Mfg. Co., 132 Federal, Boston, Mass.

WELLS BROS. CO. ("Little Giant"), Green-
field, Mass. (See adv. index, end of book)

Wiley & Russell Mfg. Co. ("Lightning,"
"Green River," Style X), Greenfield, Mass.

***Screw Plates (Automobile)**

WELLS BROS. CO., ("Little Giant"),
Greenfield, Mass. (See adv. index, end of
book)

Screw Tops (Bottle)

Wheeling Stamping Co., Wheeling, W. Va.

Screws (Bed)

Kansas City Bolt & Nut Co., Kansas City, Mo.
Shelton Co., Shelton, Conn.

Screws (Bench)

(See Screws, Hand)

Screws (Bibb)

Steele & Johnson Mfg. Co., Waterbury, Conn.
Western Automatic Mach. Screw Co., Elyria, O.

Screws (Bicycle)

ATLAS BOLT & SCREW CO., THE,
Marquette opp Hamilton av, N E, Cleve-
land, O.

Chicago Screw Co. (Iron or Brass), 519 Homan
av, Chicago, Ill.

Hartford Machine Screw Co., Hartford, Conn.
National Screw & Tack Co., Cleveland, O.

NATIONAL-ACME MFG. CO., 7500
Stanton av, S E, Cleveland, O. (See adv.
index & branch offices, end of book)

Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., 600 E Clarence av, St.
Louis, Mo.

Western Automatic Mach. Screw Co., Elyria, O.

Screws (Brass, Copper & Bronze)

American Pin Co. (Brass Only), Waterbury,
Conn.

American Screw Co., Providence, R. I.
Blake & Johnson Co., Waterbury, Conn.

Bridgeport Brass Co. (To Order Only), Bridge-
port, Conn.

Columbia Screw Co. (Gimlet Pointed), 106th &
Cottage Grove av, Chicago, Ill.

DETROIT SCREW WORKS, Detroit,
Mich. (See adv. index, end of book)

Gaynor & Mitchell Mfg. Co. (Brass for Steam,
Gas & Water Fittings), Bridgeport, Conn.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hubbell, Harvey, Bridgeport, Conn.

HUNGERFORD, U. T. BRASS & COP-
per Co. (All Kinds), 497 Pearl New York

MERCHANT & EVANS CO. (Inc.), 517
Arch, Philadelphia, Pa. (See adv. Index &
branch offices, end of book)

NATIONAL-ACME MFG. CO. (Brass
Only), 7500 Stanton av. S. E., Cleveland, O.
(See adv. Index & branch offices, end of book)
National Screw & Tack Co. (Brass Only),
Cleveland, O.

PHILADELPHIA MACHINE SCREW
Works, Race & Sheridan, Phila., Pa. (See
adv. Index, end of book)

Reading Hardware Co., Reading, Pa.
Reed & Prince Mfg. Co., Worcester, Mass.
Rochester Machine Screw Co., Rochester, N. Y.
St. Louis Screw Co., St. Louis, Mo.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Waterbury Mfg. Co. (Brass Only), Waterbury,
Conn.

Welch, T. F. & Co., 55 Sudbury, Boston,
Mass.

Western Automatic Mach. Screw Co., Elyria, O.

Screws (Brass Machine)

American Screw Co., Providence, R. I.
Anthony Screw Co., Worcester, Mass.

ATLAS BOLT & SCREW CO., THE.
Marquette opp Hamilton av, N. E., Cleve-
land, O.

Chicago Nut Co., 118 W Jackson boul, Chi-
cago, Ill.

Chicago Screw Co., 519 Homan av, Chicago,
Ill.

Corbin Screw Corporation, New Britain, Conn.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

HUNGERFORD, U. T. BRASS & COP-
per Co., 497 Pearl, New York

Miles, Franklin S. (Est. of), 205 Quarry,
Phila., Pa.

Mount Carmel Bolt Co., Mount Carmel, Conn.

NATIONAL-ACME MFG. CO., 7500
Stanton av, S. E., Cleveland, O. (See adv.
Index & branch offices, end of book)

National Screw & Tack Co., Cleveland, O.

Parham & Lawser, 712 Cherry, Phila., Pa.

PHILADELPHIA MACHINE SCREW
Works, Race & Sheridan, Phila., Pa. (See
adv. Index, end of book)

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Progressive Mfg. Co., Torrington, Conn.

Reading Screw Co., Norristown, Pa.

Reed & Prince Mfg. Co., Worcester, Mass.

Reeves Mfg. Co., New Haven, Conn.

Reynolds & Co., New Haven, Conn.

St. Louis Screw Co., St. Louis, Mo.

Standard Screw Co., 6 Madison, Chicago, Ill.

Steele & Johnson Mfg. Co., Waterbury, Conn.

Young Bros., Forestville, Conn.

*Screws (Brass & Iron Machine)

DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. Index,
end of book)

Screws (Building Movers')

Boston Bolt Co., 284 Franklin, Boston, Mass.

New London Vise Works, New London, Conn.

Screws (Can)

Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

Screws (Cap & Set)

American Bolt Co., Lowell, Mass.

Anthony Screw Co., Worcester, Mass.

Chicago Nut Co., 118 W Jackson boul, Chi-
cago, Ill.

Chicago Screw Co. (Iron & Steel), 519 Homan
av, Chicago, Ill.

Cincinnati Screw & Tap Co., Twightwee, O.

Corbin Screw Corporation (Also Knurled Set
etc.), New Britain, Conn.

DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. Index,
end of book)

Eastern Bolt & Nut Co., Providence, R. I.

Electric Welding Products Co., Cleveland, O.

Ferry Cap & Set Screw Co. (Steel & Brass),
2151 Scranton rd, Cleveland, O.

Greenlie, Wyatt & Co., 499 Water, New York

Hall's, Samuel Sons (Milled), 229 W. 10th,
New York

Hartford Machine Screw Co., Hartford, Conn.

Haskell, Wm. H. Mfg. Co. (Oval, Flat, Coun-
ter Sunk, Square, Hexagon, Button &
French Head), Pawtucket, R. I.

Hoopes & Townsend Co., 1330 Buttonwood, Phila-
delphia, Pa.

Hope, Wm. H. & Co., Lowell, Mass.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Lamson & Sessions Co. (Set), Cleveland, O.

NATIONAL-ACME MFG. CO., 7500
Stanton av, S. E., Cleveland, O. (See adv.
Index & branch offices, end of book)

Niagara Screw Co., Buffalo, N. Y.

Payne's Bolt Works, San Francisco, Cal.

Pawtucket Mfg. Co., Pawtucket, R. I.

Penn Hardware Co., Reading, Pa.

Penna. Shafting Co., Spring City, Pa.

Perry-Fay Mfg. Co., Elyria, O.

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Reynolds & Co. (Square, Round & Hex Head),
New Haven, Conn.

Rochester Machine Screw Co., Rochester, N. Y.

Rhode Island Tool Co., Providence, R. I.

Russell, Burdell & Ward Bolt & Nut Co.,
Portchester, N. Y.

St. Louis Screw Co., St. Louis, Mo.

Upson Nut Co., Unionville, Conn., & Cleve-
land, O.

Western Automatic Mach. Screw Co., Elyria, O.

Worcester Mach. Screw Co., Worcester, Mass.

Young Bros., Forrestville, Conn.

Screws (Coach & Lag)

(See also Screw Manufacturers, Wood)

American Iron & Steel Mfg. Co., Lebanon, Pa.

Boston Bolt Co., Boston, Mass.

Buffalo Bolt Co., Buffalo, N. Y.

Central City Bolt Co., Syracuse, N. Y.

Chicago Nut Co., 118 W Jackson boul, Chi-
cago, Ill.

Clark Bros Bolt Co., Milford, Conn.

Colorado Fuel & Iron Co., Denver, Col.

Columbus Bolt Works, Columbus, O.

Continental Bolt & Iron Works, 22d & Union
Chicago, Ill.

Cooke, Asa Co., Hartford, Conn.

Corbin Screw Corporation (Gimlet-Pointed,
etc.), New Britain, Conn.

Dietrich Bros., 344 North, Baltimore, Md.

Graham Nut Co., Pittsburg, Pa.

Greenlie, Wyatt & Co., 499 Water, New York

HAMMACHER, SCHLEMMER & CO.,
133 4th av, New York. (See adv. Index,
end of book)

Hall's, Samuel Sons, 229 W 10th, New York

Haskell, Wm. H. Mfg. Co. (Gimlet Pointed),
Pawtucket, R. I.

Hoopes & Townsend Co., 1330 Buttonwood, Phila-
delphia, Pa.

Hubbard & Co., Pittsburg, Pa.

Kansas City Bolt & Nut Co. (Coach), Kansas
City, Mo.

Lake Erie Iron Co. (Also Gimlet Pointed
Coach), Cleveland, O.

Lamson & Sessions Co., Cleveland, O.

Lanz, M. & Sons (Cone & Gimlet Pointed
Lag), Carson & 29th, Pittsburg, Pa.

McCABE HANGER MFG. CO., 425 W.
25th, New York. (See adv. Index, end of
book)

Michigan Bolt & Nut Works, Detroit, Mich.

Milton Mfg. Co., Milton, Pa.

Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

National Bolt & Nut Co., Pittsburg, Pa.

National Screw & Tack Co., Cleveland, O.

National Supply Co. (Coach Gimlet Point), 7 W.
Lombard, Baltimore, Md.

Necly Nut & Bolt Co. (Lag), Pittsburg, Pa.

New Castle Forge & Bolt Co., New Castle, Pa.

Oliver Iron & Steel Co. (Gimlet Pointed, etc.),
Pittsburg, Pa.

Parker, Chas. Co., Meriden, Conn.

Pawtucket Mfg. Co. (Gimlet Point), Pawtucket,
R. I.

Pittsburg Mfg. Co., 28th & R. R., Pittsburg, Pa.

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Pottsville Bolt Co., Pottsville, Pa.

Republic Iron & Steel Co. (Gimlet Pointed),
Frick bldg, Annex, Pittsburg, Pa.

Reynolds & Co., New Haven, Conn.

Rhode Island Tool Co. (Gimlet Pointed),
Providence, R. I.

Scranton Bolt & Nut Co., Scranton, Pa.

St. Louis Screw Co., St. Louis, Mo.

Shelton Co., Derby, Conn.

Upson Nut Co., Cleveland, O.

Scranton Bolt & Nut Co., Scranton, Pa.

Screws (Collar)

Anthony Screw Co., Worcester, Mass.

ATLAS BOLT & SCREW CO., THE.
Marquette opp Hamilton av, N. E., Cleve-
land, O.

Chicago Screw Co., 519 Homan av, Chicago,
Ill.

Cincinnati Screw & Tap Co., Twightwee, O.

Columbia Screw Co. (Gimlet Pointed), 106th &
Cottage Grove av, Chicago, Ill.

Corbin Screw Corporation, New Britain, Conn.

Hartford Machine Screw Co., Hartford, Conn.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

NATIONAL-ACME MFG. CO., 7500
Stanton av, S. E., Cleveland, O. (See adv.
Index & branch offices, end of book)

Pawtucket Mfg. Co., Pawtucket, R. I.

PHILADELPHIA MACHINE SCREW
Works (Also for Electrical Trade), Race &
Sheridan, Phila., Pa. (See adv. Index, end
of book)

Pittsburg Screw & Bolt Co., Pittsburg, Pa.

Western Automatic Mach. Screw Co., Elyria, O.

Worcester Mach. Screw Co., Worcester, Mass.

Screws (Dowel)

• (See Screws, Wood)

Screws (Drive)

(See Screws, Wood)



DETROIT SCREW WORKS

MANUFACTURERS OF

SET, CAP and MACHINE SCREWS, TAPER PINS,
COUPLING BOLTS, STUDS, NUTS, Etc.

SCREW MACHINE PRODUCTS,—STEEL AND BRASS

AUTOMOBILE, ENGINE AND MACHINERY PARTS,
HARDENED AND GROUND WORK A SPECIALTY.

SEND US YOUR BLUE PRINTS
FOR ESTIMATE.

DETROIT, MICH.



Philadelphia Machine Screw Works, Race and Sheridan Sts., Philadelphia.

MANUFACTURERS OF

SPECIAL : MACHINE : SCREWS

AND ALL KINDS OF SCREW MACHINE PRODUCTS



*Screws (Feed)

ALLIS-CHALMERS CO., Milwaukee, Wis.
(See adv. index & branch offices, end of book)
STANDARD GAUGE STEEL CO.,
Beaver Falls, Pa. (See adv. index, end of book)

Screws for Electrical Trade

American Pin Co., Waterbury, Conn.
DETROIT SCREW WORKS (Collar,
etc.), 348 Franklin, Detroit, Mich. (See
adv. index, end of book)
NATIONAL-ACME MFG. CO., 7500
Stanton av., S. E., Cleveland, O. (See adv.
index & branch offices, end of book)
PHILADELPHIA MACHINE SCREW
Works (Collar, etc.), Race & Sheridan,
Phila., Pa. (See adv. index, end of book)
Western Automatic Mach. Screw Co., Elyria, O.

Screws (German Silver)

Blake & Johnson Co., Waterbury, Conn.
Columbia Screw Co., 16th & Cottage Grove av.,
Chicago, Ill.
NATIONAL-ACME MFG. CO., 7500
Stanton av., S. E., Cleveland, O. (See adv.
index & branch offices, end of book)
Parham & Lawser, 712 Cherry, Phila., Pa.
PHILADELPHIA MACHINE SCREW
Works, Race & Sheridan, Phila., Pa. (See
adv. index, end of book)

Screws (Gib)

DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. index,
end of book)
Hartford Machine Screw Co., Hartford, Conn.
NATIONAL-ACME MFG. CO., 7500
Stanton av., S. E., Cleveland, O. (See adv.
index & branch offices, end of book)
PHILADELPHIA MACHINE SCREW
Works, Race & Sheridan, Phila., Pa. (See
adv. index, end of book)
Reynolds & Co., New Haven, Conn.
St. Louis Screw Co., St. Louis, Mo.
Western Automatic Mach. Screw Co., Elyria, O.
Yale & Towne Mfg. Co., Stamford, Conn.

Screws (Hand Rail)

Columbia Screw Co., 106th & Cottage Grove av.,
Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
Sargent & Co., New Haven, Conn., & 94 Cen-
ter, New York
Wire Goods Co., Worcester, Mass.

Screws (Hand Saw)

Corbin Screw Corporation, New Britain, Conn.
DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. index,
end of book)
PHILADELPHIA MACHINE SCREW
Works, Race & Sheridan, Phila., Pa. (See
adv. index, end of book)
Sargent & Co., New Haven, Conn., & 94 Cen-
ter, New York

Screws (Hand)

Aldrich, Wm. K. Co., Lowell, Mass.
Bliss, R. Mfg. Co., Pawtucket, R. I.
Brighton Specialty Co. (Wood Hand), Manches-
ter, N. H.
Chapin-Stephens Co., Pine Meadow, Conn.
Chicago Screw Co. (Improved "Reno" Wrought
Iron Screws with Metal Bearing), 519
Homan av., Chicago, Ill.

DETROIT SCREW WORKS (Iron
with Metal Bearings), 348 Franklin, Detroit,
Mich. (See adv. index, end of book)
Grand Rapids Hand Screw Co., Grand Rap-
ids, Mich.

HANMACHER, SCHLEMMER & CO.,
133 4th av., New York. (See adv. index,
end of book)

Hardware & Woodenware Mfg. Co., 693 B'way,
New York

HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)

Judson Mfg. Co. (Brush Makers'), E. Arling-
ton, Va.

New London Vise Works, New London, Conn.
Pinto Tool Co. (Iron & Wood), Columbus, O.

Peck, Stow & Wilcox Co., Southington, Conn.
Reading Hardware Co., Reading, Pa.

Sandusky Tool Co. (Wood), Sandusky, O.
TAYLOR, JAS. L. MFG. CO., Bloomfield,
N. J. (See adv. index, end of book)

Screws (Hanger)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Columbia Screw Co. (Gimlet Pointed), 106th &
Cottage Grove av., Chicago, Ill.
Corbin Screw Corporation, New Britain, Conn.
DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. index,
end of book)

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Kansas City Bolt Co., Kansas City, Mo.

Kirk-Latty Mfg. Co., Cleveland, Ohio
Lamson & Sessions Co., Cleveland, O.

Michigan Bolt & Nut Works, Detroit, Mich.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

NATIONAL-ACME MFG. CO., 7500
Stanton av., S. E., Cleveland, O. (See adv.
index & branch offices, end of book)

National Screw & Tack Co., Cleveland, O.
National Supply Co., Baltimore, Md.

Old Dominion Iron & Nail Works Co., Richmond
Pawtucket Mfg. Co., Pawtucket, R. I.

Republic Iron & Steel Co., Pittsburg, Pa.
Western Automatic Mach. Screw Co., Elyria, O.

Screws (Headless)

(See Screws, Wood)

Screws (Hook & Eye)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

Screws (House Raising)

(See Screws, Building Movers')

Screws (Jack)

(See also Jacks, Screw; also Jacks, Ratchet)
American Skein & Foundry Co., Racine, Wis.

Barber Mfg. Co., Ashtabula, O.
Illinois Iron & Bolt Co. ("I. I. & B. Co."),
Carpentersville, Ill.

Miller's Falls Co., 28 Warren, New York
Works: Miller's Falls, Mass.

STARRETT, L. S. CO. ("Little
Giant"), Athol, Mass. (See adv. index
& branch offices, end of book)

Southern Skein & Foundry Co., Chattanooga,
Tenn.

Swett, A. L. Iron Works (Ratchet, etc.), Me-
dina, N. Y.

WALSH'S SONS & CO., Newark, N. J.
(See adv. index, end of book)

Screws (Jack, Cable Reel)

Illinois Iron & Bolt Co. ("I. I. & B. Co."),
Carpentersville, Ill.

Screws (Lag)

(See Screws, Coach & Lag)

*Screws (Lead)

STANDARD GAUGE STEEL CO.,
Beaver Falls, Pa. (See adv. index, end of book)

Screws (Lock Cap)

Reed & Prince Mfg. Co., Worcester, Mass.

Screws (Machine)

American Screw Co., Providence, R. I.
Anthony Screw Co. (Milled), Worcester, Mass.
Atlantic Screw Works (David Tilton), Hartford,
Conn.

ATLAS BOLT & SCREW CO., THE,
Marquette opp Hamilton av., N. E., Cleve-
land, O.

Chicago Nut Co., 118 W Jackson boul., Chi-
cago, Ill.

Chicago Screw Co. (Iron & Brass), 519 Homan
av., Chicago, Ill.

Cincinnati Screw & Tap Co., Twightwee, O.
Cleveland Machine & Screw Co., Cleveland, O.

Columbia Screw Co., 106th & Cottage Grove av.,
Chicago, Ill.

Corbin Screw Corporation (Brass or Iron), New
Britain, Conn.

DETROIT SCREW WORKS, 348
Franklin, Detroit, Mich. (See adv. index,
end of book)

Draper Co., Hopedale, Mass.
Ferry Cap & Set Screw Co. (Steel & Brass),
2151 Scranton rd., Cleveland, O.

Hall's, Sam'l Sons, 229 W 10th, New York
HANMACHER, SCHLEMMER & CO.,
133 4th av., New York. (See adv. index,
end of book)

Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

Hill, Geo. Q. Co., 326A, Boston, Mass.
Hoopes & Townsend Co., 1330 Buttonwood, Phil-
adelphia, Pa.

Hope, Wm. H. & Co. (Milled), Lowell, Mass.
Hubbel, Harvey (Inc.), Bridgeport, Conn.

Kirk-Latty Mfg. Co., Cleveland, O.
Miles, Franklin S. (Est. of) (Brass & Iron),
205 Quarry, Phila., Pa.

Mount Carmel Bolt Co., Mount Carmel, Conn.
NATIONAL-ACME MFG. CO., 7500
Stanton av., S. E., Cleveland, O. (See adv.
index & branch offices, end of book)

National Screw & Tack Co., Cleveland, O.
New Haven Machine Screw Co., New Haven,
Conn.

Ohio Nut & Bolt Co., Berea, O.
Parham & Lawser, 712 Cherry, Phila., Pa.

PHILADELPHIA MACHINE SCREW
Works (All Kinds of Special), Race & Sheri-
dan, Phila., Pa. (See adv. index, end of book)

Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Progressive Mfg. Co., Torrington, Conn.

Reading Screw Co. (Brass & Iron), Norris-
town, Pa.

Reed & Curtis Machine Screw Co., Worcester,
Mass.

Reed & Prince Mfg. Co. (Brass & Iron), Wor-
cester, Mass.

Reynolds & Co., New Haven, Conn.
Rochester Machine Screw Co., Rochester, N. Y.

Russell & Erwin Mfg. Co., New Britain, Conn.
St. Louis Screw Co., St. Louis, Mo.

Smith Machine Screw Co., Northampton, Mass.
Steele & Johnson Mfg. Co., Waterbury, Conn.

Turner, Jno. D., Lowell, Mass.
Wells, F. E. & Son Co. (Special), Greenfield,
Mass.

Western Automatic Mach. Screw Co., Elyria, O.
Worcester Machine Screw Co., Worcester,
Mass.

Young Bros. (From Sample Only), Forestville,
Conn.

Screws (Ore Washer)

American Iron & Steel Co., Lebanon, Pa.

Screws (Plated & Lacquered)

(See Screws, Wood; also Screws, Brass, Etc.)

Screws (Plumbers')

American Pin Co., Waterbury, Conn.

BERNZ, OTTO (Closet, etc.), S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)

Chicago Nut Co., 118 W Jackson boul, Chicago, Ill.

Columbia Screw Co., 16th & Cottage Grove av, Chicago, Ill.

Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.

New England Screw Co., Boston, Mass.

Sanitary Co. (Brass), Cleveland, O.

Steele & Johnson Mfg. Co., Waterbury, Conn.

Wolverine Brass Works (Closet, etc.), Grand Rapids, Mich.

Screws (Power, Lead & Feed)

Screw Cutting Co. of America (Any Length, Diameter & Pitch), 17th & Sedgley av, Phila., Pa.

Screws (Press)

American Skein & Foundry Co. (For Pressing Cider, Tobacco, Cheese, etc.), Racine, Wis.

Illinois Iron & Bolt Co. (For Pressing Cider Tobacco, Cheese, etc.), Carpentersville, Ill.

Screws (Rail)

Humason & Beckley Mfg. Co., New Britain, Conn.

Screws (Saw)

Disston, H. & Sons (Inc.), Tacony, Phila., Pa.

National Saw Co., Newark, N. J., & Middletown, N. Y.

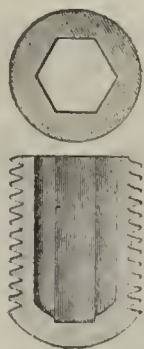
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)

Simonds Mfg. Co., Fitchburg, Mass.

Screws (Set)

(See Screws, Cap & Set)

Screws (Set, Hollow)



HAMMACHER, SCHLEMMER & CO. Controlling Agents, 4th av & 13th, New York

AGENTS.

Cal...Oakland.....Ingram Hardware Co.
 Colo...Denver.....Scott Supply & Tool Co.
 Ga...Atlanta.....Alexander, J. M. & Co.
 Ill...Chicago.....Harris, Samuel & Co.
 Ind...Indianapolis...Vonnegut Hardware Co.
 Ia...Muscatine...Barry Mfg. Co.
 Md...Baltimore...Adt, John B.
 Mass...Boston.....Chase, Parker & Co.
 Mich...Detroit.....Strellinger, Chas. A. Co.
 Mo...St. Louis.....St. Louis Machinists Supply Co.

N. Y...Albany.....Albany Hardware & Iron Co.
 N. Y...Rochester...Ernst, Louis & Sons
 N. Y...Syracuse...Syracuse Supply Co.
 N. C...Charlotte...Textile Mill Supply Co.
 Ohio...Cincinnati...Boebinger Hardware Co.
 Ohio...Cleveland...Strong, Carlisle & Hammond Co.

Pa...Phila.....Maddock & Co.
 Pa...Pittsburg...Somers, Fittler & Todd Co.
 S. C...Anderson...Sullivan Hardware Co.
 Wash...Seattle...Whiton Hardware Co.
 W. Va...Huntington...Banks Supply Co.
 Wis...Milwaukee...Packard, O. L. Machinery Co.
 Can...Ont...Toronto...Alkenhead Hardware Co.

Screws (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Sargent & Co., New Haven, Conn.

Screws (Side Knob)

Reed & Prince Mfg. Co., Worcester, Mass.

Screws (Skein)

American Iron & Steel Mfg. Co., Lebanon, Pa.
 Kansas City Bolt & Nut Co., Kansas City, Mo.
 Lamson & Sessions Co., Cleveland, O.

Michigan Bolt & Nut Works, Detroit, Mich.

Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

National Bolt & Nut Co., Pittsburg, Pa.

National Supply Co., 7 W. Lombard, Baltimore, Md.

Republic Iron & Steel Co., Pittsburg, Pa.

Screws (Stage)

Brewer Bros. (Steel), 614 Filbert, Phila., Pa.
 Stortz, John & Son, 210 Vine, Phila., Pa.

Screws (Stud)

Chicago Screw Co., 519 Homan av, Chicago, Ill.

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)

Haskell Wm. H. Mfg. Co., Pawtucket, R. I.

Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.

PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)

Republic Iron & Steel Co., Pittsburg, Pa.

Reynolds & Co., New Haven, Conn.

Rochester Machine Screw Co., Rochester, N. Y.

St. Louis Screw Co., St. Louis, Mo.

Western Automatic Mach. Screw Co., Elyria, O.

Screws (Thumb)

Billings & Spence Co., Hartford, Conn.

Chicago Screw Co. (Drop Forge & Malleable Iron), 519 Homan av, Chicago, Ill.

Cincinnati Screw & Tap Co., Twilight, O.

DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)

Hardware & Woodenware Mfg. Co., 693 B'way, New York

Hartford Machine Screw Co., Hartford, Conn.

Haskell, Wm. H. Mfg. Co. (Drop Forged), Pawtucket, R. I.

Keystone Drop Forge Works (Drop Forged), Chester, Pa.

Miles, Franklin S. (Est. of), 205 Quarry, Phila., Pa.

PAGE-STORMS DROP FORGE CO. Chicopee, Mass. (See adv. index, end of book)

PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)

Quadrige Mfg. Co., 18 S. Canal, Chicago, Ill.

Rhode Island Tool Co., Providence, R. I.

Rochester Machine Screw Co., Rochester, N. Y.

St. Louis Screw Co., 3017 N 13th, St. Louis, Mo.

Steele & Johnson Mfg. Co., Waterbury, Conn.

Welch, T. F. & Co. (Brass), 55 Sudbury, Boston, Mass.

Western Automatic Mach. Screw Co., Elyria, O.

Screws (Tobacco)

Bates', Jas. Sons, Baltimore, Md.
 Danbery Foundry Co. ("Parker" Stationary), Ripley, O.

Screws (Water Closet)

(See Screws, Plumbers')

Screws (Wood)

American Screw Co., Providence, R. I.

Atlantic Screw Works (Brass & Bronze) (David Tilton, Prop.), Hartford, Conn.

Brooks, M. S. & Sons (Dowel, Wing), Chester, Conn.

Columbia Screw Co., 106th & Cottage Grove av, Chicago, Ill.

Corbin Screw Corporation, New Britain, Conn.

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Eagle Lock Co., Terryville, Conn.

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Humason & Beckley Mfg. Co., New Britain, Conn.

NATIONAL-ACME MFG. CO., Cleveland, O. (See adv. index, end of book)

National Screw & Tack Co. (Iron & Brass), Cleveland, O.

Parker, Chas. Co., Meriden, Conn.

Penn Hdw. Co. (Inc.), Reading, Pa.

Reading Hardware Co., Reading, Pa.

Reading Screw Co. (Brass & Iron), Norristown, Pa.

Reed & Prince Mfg. Co. (Iron & Brass), Worcester, Mass.

Russell & Erwin Mfg. Co., New Britain, Conn.

Sargent & Co., New Haven, Conn.

Southington Cutlery Co., Southington, Conn.

Wire Goods Co., Worcester, Mass.

Screws (Wooden)

Aldrich, Wm. K. Co., Lowell, Mass.

Pelree, Wm. E. & Co., Milford, N. H.

*Scribers (Adjustable, Etc.)

STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Scrubbers (Floor)

Bosley, D. W. Co. (Rubber), 303 Fulton, Chicago, Ill.

*Scrubbers & Tanks

PETROLEUM IRON WORKS CO., Sharon, Pa., & Farmers' Bank bldg, Pittsburg, Pa. (See adv. index, end of book)

Sculptors (Architectural)

(See Modelers & Sculptors, Architectural; also Carvers, Stone)

*Scuttle Openers (Automatic Self-Locking)

BICKELHAUPT, GEO., SKYLIGHT Works, 243 W 47th, New York. (See adv. index, end of book)

Scythe Mfrs.

American Axe & Tool Co., Glassport, Pa.

Columbian Cutlery Co. (Grass, Weed & Bush), Reading, Pa.

Dunn Edge Tool Co., Oakland, Me.

Emerson Edge Tool Co., East Lebanon, N. H.

Emerson-Stevens Mfg. Co., Oakland, Me.

Kelly Axe Mfg. Co., Charleston, W. Va.

Nolan Mfg. Co., Skowhegan, Me.

North Wayne Tool Co., Hallowell, Me.

Rixford Mfg. Co., East Highgate, Vt.

Sibley Scythe Co., North Newport, N. H.

Wadsworth, David & Son, Auburn, N. Y.

Winsted Mfg. Co. (Grass, Grain, Bush, Bramble, Weed & Lawn), Winsted, Conn.

Scythe Snaths

American Fork & Hoe Co., Cleveland, O.

Benton Mfg. Co., Charlotte, Mich.

Brown, Hinman & Huntington Co., Memphis, Tenn.

Derby & Ball, Bellows Falls, Vt.

Emerson-Stevens Mfg. Co., Oakland, Me.

Iowa Farming Tool Co., Fort Madison, Ia.

Owosso Mfg. Co., Owosso, Mich.

Seymour Mfg. Co., Seymour, Ind.

*Seals (Box Strap)

ACME STEEL GOODS CO., 2834 Archer av, Chicago, Ill.; 147 Lafayette, New York, & Empire bldg., Atlanta, Ga.

(See adv. index, end of book)

CARY MFG. CO., ("Cary's" Patented Protective Seals), 19 Roosevelt, New York.

(See adv. index, end of book)

Seals (Case)

(See Seals, Box Strap)

Seals (Lead)

ACME STEEL GOODS CO., 2834
Archer av., Chicago, Ill.; 147 Lafayette,
New York, & Empire bldg., Atlanta, Ga.
(See adv. Index, end of book)
American Smelting & Refining Co., Cincinnati,
Ohio
Chadwick-Boston Lead Co., Boston, Mass.
Hertz, Theo. & Son, St. Louis, Mo.

Seals & Sealing Presses (Car)

AMERICAN RAILWAY SUPPLY CO.,
24 Park pl., New York. (See adv. index,
end of book)
American Smelting & Refining Co. (Lead),
Cincinnati, O.
Barnard Stamp Co., 311 Olive, St. Louis, Mo.
Brooks, E. J. & Co., 227 Fulton, New York
Chadwick-Boston Lead Co. (Lead Car Seals
Only), Boston, Mass.
Chicago Car Seal Co., 108 N Green, Chicago,
Ill.
Crescent Seal & Stamp Co., Cambridge, O.
Detroit Car Seal & Tin Tag Co., Detroit, Mich.
Handlan-Buck Mfg. Co. ("Handlan's"), 212 N
3d, St. Louis, Mo.
Hanson, C. H. (Seals & Presses), 44 Clark,
Chicago, Ill.
Hertz, Theo. & Son (Lead Car Seals), 10th &
Poepping, St. Louis, Mo.
Hill, E. B. Mfg. Co., 1020 New Market, Phila.,
Pa.
International Seal & Lock Co., Hastings, Mich.
Keystone Seal & Press Co., 30 Church, New
York
Lehmer, Jos. R., 1212 Farnam, Omaha, Neb
National Car Seal Co., Hamilton, O.
New York Stencil Works, 100 Nassau, New
York
Parker, T. M., Hartford, Conn.
Saubrey, Geo. Car Seal Co. (Hasp & Car
Shipping Seals), Columbus, O.
Sigwalt Mfg. Co. (Presses), 188 Madison,
Chicago, Ill.
Smith, R. H. Mfg. Co., Springfield, Mass.
Utica Drop Forge & Tool Co. (Presses), Utica,
N. Y.
Wendell & MacDuffie (Mfrs.' Agts.), 50
Church, New York
Woodman, B. Mfg. & Supply Co. (Lead), 63
Oliver, Boston, Mass.

Searchlights

(See Projectors or Searchlights)

Searchlights (Acetylene)

American Acetylene Stove Co. ("Clear View")
Masonic Temple, Minneapolis, Minn.
Colt, J. B. Co., 21 Barclay, New York
MacLeod, Walter & Co., 213 E. Pearl, Cin-
cinnati, O.
Twentieth Century Mfg. Co., 19 Warren, New
York

Seating(See Furniture, School; also Furniture, Church;
also Opera Chairs & Theatre Seating)**Seating (Car)**

(See Car Seats, Chairs & Fittings)

Seats (Agricultural Implement)

Avery Stamping Co., Cleveland, O.
Cambria Steel Co. (Pressed Steel), Arcade
bldg., Phila., Pa.

Seats (Bath Tub)

Buffalo Specialty Co. ("The Empire," "Bon
Ton," "Climax" & "Universal" Adjustable),
Buffalo, N. Y.
Climax Specialty Co., Elmira, N. Y.
Hess, Chas. Co. (For Export), 129 Front, New
York
Warner, A. H. & Co., Bristol, Conn.

***Seats (Cable Pole)**

ANDERSON FORGE & MACHINE CO.,
271 Guolin, Detroit, Mich. (See adv. Index,
end of book)

***Seats (Chair)**

DIAMOND STATE FIBRE CO., (Hard
Fibre), Elsmere, Del. (See adv. Index,
end of book)

DELAWARE HARD FIBRE CO.,
(Hard Book Fibre), Wilmington, Del.
Works, Marshalltown, Del. (See adv. In-
dex, end of book)

Seats (Folding)**Bryan Novelty Mfg. Co., Bryan, O.****Seats (Pole)****Lanz, M. Sons, Carson & 20th, Pittsburg, Pa.****Seats (Reversible, Car)**

Brill, J. G. Co. (For Open or Closed Cars), 62d
& Woodland av., Phila., Pa.

Seats & Seating (Car)

(See Car Seats, Chairs & Fittings)

Secohmeters

Leeds & Northrup Co., 4901 Stenton av, Gtn,
Phila., Pa.

Seeders (Beet)

Bateman Mfg. Co. (Drills), Grenloch, N. J.
Caledonia Bean Harvester Works, Caledonia,
N. Y.
Deere & Mansur Co. (Drills), Moline, Ill.
Gale Mfg. Co., Albion, Mich.
Moline Plow Co. (Four Row), Moline, Ill.
Parlin & Orendorff Co., Canton, Ill.
Rowell, I. B. Co., Menominee Falls, Wls.
Superior Drill Co. (Drills), Springfield, O.

Seeders (End Gate)

Adam, W. J., Joliet, Ill.
American Seeding Machine Co., Main Office,
Springfield, O.
Bailey, Nichols & Co. (Chainless Force Feed),
Delevan, Ill.
Bristol & Gale Co., Chicago, Ill.
Chambers, Bering, Quinlan Co., Decatur, Ill.
Engel, J. A. & Co., Peoria, Ill.
Foster & Williams Mfg. Co., Racine, Wls.
Johnson & Field Mfg. Co., Racine, Wls.
Luthy Co., Peoria, Ill.
Peoria Drill & Seeder Co. ("Glendale Agita-
tor," "Peoria Agitator"), Peoria, Ill.
Racine Implement Co., Racine, Wls.
Racine Malleable & Wrought Iron Co., Racine,
Wls.
Rhea-Thiele Implement Co., Peoria, Ill.
Talt, F. B. Mfg. Co. (Force Feed; also Wright's
Clover Seed Attachment), Decatur, Ill.

Seeders (Garden)**Deere & Mansur Co., Moline, Ill.****Seeders (Grass)**

Brown Mfg. Co., Phelps, N. Y.
Fetzer & Co., Springfield, Ill.
Holmes Wire Rope Seeder Co., Ypsilanti, Mich.
Seeder & Hancock Chair Co., Homer, Mich.
Star Seeder Co., Shortsville, N. Y.
Thompson, O. E. & Son, Ypsilanti, Mich.

Seeders (Raisin)

Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Landers, Frary & Clark ("Crown"), New
Britain, Conn.

Seeders & Sowers

(Seeders; also Sowers)

Allen, S. L. & Co. ("Planet, Jr.," Bean, Pea,
etc.), 107 Market, Phila., Pa.
American Harrow Co. (Seeders Only), Detroit,
Mich.
American Seeding Machine Co. (Broadcast),
Main Office, Springfield, O.
Appleton Mfg. Co. ("Budger" & "Royal"),
Batavia, Ill.
Beaver Dam Mfg. Co., Beaver Dam, Wls.
Belcher & Taylor Agri. Tool Co. (Fertilizer
"Stevens"), Chicopee Falls, Mass.
Benicia Agricultural Works ("Gem," "Ger-
man"), Benicia, Cal.
Caldwell & Drake Iron Works (Inc.) (End Gate
Seeders), Columbus, Ind.
Cyclone Seeder Co. ("Cyclone," "Chicago" &
"Champion, Jr.," Hand Broadcast Seed
Sower), Urbana, Ind.

Deere & Mansur Co. (Broadcast; also Grass
Seeder Attachment), Moline, Ill.
Dowaglac Mfg. Co. (Seeders), Dowaglac, Mich.
Emerson Mfg. Co., Rockford, Ill.
Fetzer & Co., Springfield, Ill.
Fond du Lac Implement Co., Fond du Lac,
Wls.

Foster & Williams Mfg. Co., Racine, Wls.
Freeman S. & Sons Mfg. Co., Racine, Wls.
Gale Mfg. Co. (Broadcast), Albion, Mich.
Goodell Co. (Hand), Antrim, N. H.
Grant-Ferris Co. (Combined Drill & Broadcast
Seeder), Troy, N. Y.
Hench & Dromgold Co. (Inc.), York, Pa.
Hoosier Drill Co., Richmond, Ind.
Howell, R. K. & Co. (Seeder with Cultivator),
Minneapolis, Minn.
Janesville Machine Co., Janesville, Wls.
Johnston Harvester Co. (Disc Seeder), Batavia,
N. Y.
Johnson & Field Mfg. Co. (Scandinavian Broad-
cast), Racine, Wls.
King Drill Mfg. Co., Nebraska City, Neb.
La Crosse Plow Co. (Also Grass Seeder Attach-
ments), La Crosse, Wis.
Luthy & Co. (Also Grass Seeder Attachments),
Peoria, Ill.

Mast, P. P. & Co., Springfield, O.
Moline Plow Co., Moline, Ill.
Monitor Drill Co., Minneapolis, Minn.
Ohio Rake Co. (Seeders for Disc Harrows),
Dayton, O.
Owatonna Mfg. Co., Owatonna, Minn.
Peoria Drill & Seeder Co. ("Columbia," "Cy-
clone," "Union, Jr."), Peoria, Ill.
Reed Mfg. Co. (Broadcast), Kalamazoo, Mich.
Rockford Well Drill Co. ("Gorman" Seeders),
Rockford, Ill.
Rock Island Plow Co. (Seeder Attachment for
Disc Harrows), Rock Island, Ill.
Rowell, I. B. Co., Menominee Falls, Wls.
Rowell, J. S. Mfg. Co. (Also Combined Seeder
& Drill), Beaver Dam, Wis.
Seeder Mfg. Co., Homer, Mich.
Star Seeder Co., Shortsville, N. Y.
Sterling Mfg. Co. ("Sterling"), Sterling, Ill.
Superior Drill Co. (Broadcast), Springfield, O.
Thompson, J. & Sons Mfg. Co., Beloit, Wls.
Van Brunt Mfg. Co. (Broad Cast), Horicon,
Wls.
Wayne Works, Richmond, Ind.
Whitman Agricultural Co. (Broadcast), St.
Louis, Mo.

Segments (Commutator)

(See Commutator Bars)

Seine Twine

(See Twine, Seine)

Self-Closing Work

(See Corks & Bibbs, Self-Closing)

**Self-Feeders & Band Cutters
for Threshers**

Advance Thresher Co., Battle Creek, Mich.
Avery Co. ("Avery"), Peoria, Ill.
Buffalo Pitts Co., Buffalo, N. Y.
Case, J. I. Thresher Co., Racine, Wls.
Frick Co., Waynesboro, Pa.
Garr, Scott & Co., Richmond, Ind.
Holt Mfg. Co. (Chain), Stockton, Cal.
Howell, R. K. & Co., Minneapolis, Minn.
Huber Mfg. Co., Marion, O.
Hunt, Gilbert Co., Walla Walla, Wash.
Jackson, Byron Machine Works (Self Feeder),
San Francisco, Cal.
La Crosse Mfg. Co. (Self Feeder), La Crosse,
Wls.
Maplebay Wind Stacker Co., Crookston, Minn.
Marion Mfg. Co., Marion, O.
Minneapolis Threshing Machine Co., Minne-
apolis, Minn.
Monarch Feeder & Stacker Co., Cedar Falls, Ia.
National Machine Co., Columbus, Ind.
Nichols & Shepard Co., Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Parsons Band Cutter & Self Feeder Co., New-
ton, Ia.
Port Huron Engine & Thresher Co., Port Huron,
Iles, Henry, Bowling Green, O.
Robinson & Co., Richmond, Ind.
Rumley, M. Co., Laporte, Ind.
Ruth Self Feeder Mfg. Co., Halstead, Kan.
Russell & Co., Masillon, O.
Sandwich Mfg. Co., Sandwich, Ill.
Westinghouse Co., Schenectady, N. Y.
Wood Bros. Steel Self Feeder Co., Des Moines,
Iowa

***Self-Starters**

CUTLER-HAMMER MFG. CO. (Alternating and Direct Current), Milwaukee, Wis. (See adv. index & branch offices, end of book)
WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Semaphore Lenses

(See Globes, Lantern)

Semaphores (Train Order)

Barney & Smith Car Co. ("The Harrington"), Dayton, O.

Separators (Air)

American Pulverizer Co. ("American" For All Dry Materials), St. Louis, Mo.

Separators (Barley)

Huntley Mfg. Co. ("Monitor" for Brewers & Malsters), Silver Creek, N. Y.

Separators (Bean)

Avery, B. F. & Sons, Louisville, Ky.
 Bacon Mfg. Co., Pontiac, Mich.

Separators (Cement, Plaster, Etc.)

Emerick, Geo. S., Nazareth, Pa.
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Separators (Centrifugal)

American Tool Works Co. ("American," for Separating Oil from Metal Chips & Turnings, etc.), Cincinnati, O.
 American Tool & Machine Co. (For Separating Oil from Metal Chips & Turnings), 109 Beach, Boston, Mass.
 Curtis, Albert B. (For Separating Oil from Steel Chips, etc.), Worcester, Mass.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Separators (Coal)

Anthracite Separator Co. ("Spiral," Automatic in Action), Hazleton, Pa.

Separators (Cotton Seed)

New Winona Mfg. Co., Winona, Minn.
 Sherman Iron Works, Sherman, Tex.
 Van Winkle, E., Gin & Machine Works, Atlanta, Ga.

Separators (Cream)

American Hardware Mfg. Co. ("Illinois Dairy," Centrifugal), Ottawa, Ill.
 American Separator Co., Bainbridge, N. Y.
 Anderson, Oscar ("Anderson"), 30 Lawrence, Newark, N. J.
 Aquatic Cream Separator Co. ("Aquatic" Gravity), Rochester, N. Y.
 Arras Cream Separator Co. ("Arras"), Bluffton, O.
 Atlantic Stamping Co. ("Atlantic"), Rochester, N. Y.
 Bluffton Cream Separator Co., Bluffton, O.
 Borden Automatic Cream Separators, Middle Granville, N. Y.
 Buckeye Cream Separator Co., Oberlin, O.
 Burrell, D. H. & Co. ("Simplex," Centrifugal Hand Power), Little Falls, N. Y.
 Chamberlain Machine Works, Waterloo, Ia.
 Chapman, C. L., Erie, Pa.
 Cleveland Cream Separator Co., Cleveland, O.
 Creamery Package Mfg. Co., 182 E Kinzie, Chicago, Ill.
 Cushman, E. S., Co., Centerville, Iowa.
 Dairy Implement Co., Lima, O.
 Dairy Queen Mfg. Co. ("Dairy Queen"), Flora, Ind.
 Davis Cream Separator Co. ("Davis" Centrifugal), 54 N. Clinton Chicago, Ill.
 De Laval Separator Co., 74 Cortlandt, New York
 Doty Mfg. Co., Cato, N. Y.
 Empire Cream Separator Co. ("Empire"), Bloomfield, N. J.

Fisk, E. W., Newark, N. Y.
 Hackett, Dailey Creamery Supply Co., Waterloo, Ia.
 Hunt Mfg. Co., Newark, N. J.
 International Harvester Co. of America, Chicago, Ill., & Auburn, N. Y.
 Iowa Dairy Separator Co. ("Iowa Dairy"), Centrifugal, Waterloo, Iowa
 Jones, Frank L., Utica, N. Y.
 King Drill Mfg. Co., Nebraska City, Kans.
 Kneeland Crystal Creamery Co., Lansing, Mich.

Lawrence, Bostwick Mfg. Co., Phelps, N. Y.
 Lawrence Mfg. Co., Toledo, O.
 Lisle Mfg. Co. ("Monarch" Hand), Clarinda, Ia.
 Laurie Co., Kookuk, Ia.
 Lowell Specialty Co. ("Puritan," "Michigan" & "King"), Lowell, Mich.
 Moseley & Pritchard Mfg. Co., Clinton, Ind.
 National Dairy Machine Co. ("National" Centrifugal, etc.), Goshen, Ind.
 National Enameling & Stamping Co. ("National"), 374 B'way, New York
 Omega Separator Co. ("Omega" Centrifugal), Lansing, Mich.

Papee Machine Co. ("Papee"), Lima, N. Y.
 Plymouth Mfg. Co., Plymouth, O.
 Polar Creamery Co., Lafayette, Ind.
 Reid, A. H., Creamery & Dairy Supply Co. ("Reid" Steam, Turbine & Hand), 69th & Haverford, Phila., Pa.
 Sanitary Cream Separator Co., Bluffton, O.
 Sharpless Separator Co. (Tubular), West Chester, Pa.

Stone Bros., Breckenridge, Mich.
 Superior Fence Machine Co., Detroit, Mich.
 U. S. Butter Extractor Co., Bloomfield, N. J.
 Vermont Farm Machine Co. ("United States"), Bellows Falls, Vt.
 Waterloo Cream Separator Co. ("Peerless" Centrifugal), Waterloo, Ia.
 Wheeler Gravity Cream Separator Co., Syracuse, N. Y.
 Wilson, H. McK. & Co., St. Louis, Mo.

Separators (Cream, Centrifugal)

(See Separators, Cream, with the word Centrifugal following their name)

Separators (Dust)

Buffalo Forge Co., Buffalo, N. Y., & 39 Cortlandt, New York
 Spicer Mfg. Co., New Philadelphia, O.
 Sterling Blower & Pipe Mfg. Co., Hartford, Conn., & 85 Liberty, New York.

Separators (Egg)

Degerdon, Adolph, 383 W B'way, New York

Separators (Flax)

Huntley Mfg. Co. ("Monitor"), Silver Creek, N. Y.

***Separators (Gas & Oil)**

PETROLEUM IRON WORKS CO., (Automatic, for Oil Wells), Sharon, Pa., & Farmers' Bank bldg. Pittsburg, Pa. (See adv. index, end of book)

Separators (Grain)

Aultman & Taylor Machinery Co. ("New Century"), Mansfield, O.
 Avery Mfg. Co., Peoria, Ill.
 Bidwell, C. H., Thresher Co. (Inc.), Batavia, N. Y.
 Closz & Howard Mfg. Co., Webster City, Ia.
 Dickey, A. P. Mfg. Co., Racine, Wis.
 Farquhar, A. B. Co. (Ltd), York, Pa.
 Gelsner Mfg. Co. (The New Peerless), Wayneboro, Pa.
 Glosz & Howard Mfg. Co., Webster City, Ia.
 Grain Separator Co., Sparta, Wis.
 Johnson & Field Mfg. Co. (Dustless), Racine, Wis.
 Hoosier Mfg. Co., New Castle, Ind.
 Howes, S. Co., Silver Creek, N. Y.
 Huntley Mfg. Co. ("Cranston" & "Monitor," Scouring, Polishing & Separating, etc.), Silver Creek, N. Y.
 Invaluable Grain Cleaner, Silver Creek, N. Y.
 Owens, J. L. Co. (Also Flax), Minneapolis, Minn.
 Prairie Queen Mfg. Co., Newton, Kan.
 Prinz & Rau Mfg. Co. ("Prinz" Automatic), 659 E Water, Milwaukee, Wis.
 Reeves & Co. (Compound), Columbus, Ind.
 Robinson & Co., Richmond, Ind.
 St. Albans Fdry. & Implt. Co., St. Albans, Vt.
SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)

Separators (Iron & Brass)

(See Separators, Magnetic)

Separators (Lime & Ash)

Hench & Dromgold Co., York, Pa.
 Spangler Mfg. Co. (Lime & Ash), York, Pa.

Separators (Magnetic)

American Concentrator Co. ("Knowles," "New Century"), Basic City, Va.
 Barnard & Leas Mfg. Co., Moline, Ill.
 Blake Mining & Machine Co., Denver, Colo.
 Brass Founders' Supply Co. ("Badger" Electro-Magnetic, etc., for Brass Fdr.), Newark, N. J.

Burlin, Chas. T., Whitinsville, Mass.
 Carter Auto-Magnetic Ore Separator Co., 123 Liberty, New York

Cresson, Geo. V. Co. ("Buchanan" for Brass, Iron, Ore, etc.), Allegheny av, W of 17th, Phila., Pa.

CUTLER HAMMER CLUTCH CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Dings Electro Magnetic Separator Co. ("Dings" Electric), 675 Smith, Milwaukee, Wis.

Elm City Engineering Co. ("Hoyt" & "Martin"), New Haven, Conn.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Howes, S. Co., Silver Creek, N. Y.

McCormack, J. S. Co., Pittsburg, Pa.

Magnetic Separator Co., Troy, N. Y.

Monquette, O. J. ("Monarch" Crusber & Pulverizer), Driggs av. & N. 10th, Brooklyn, N. Y.

Reed, Charles J., 23d & Hamilton, Phila., Pa.

SPROUT, WALDRON & CO. (Automatic), Muncy, Pa. (See adv. index, end of book)

Stearns-Roger Mfg. Co. ("Wetherill"), Denver, Colo.

United Iron Works Co. ("Cleveland-Knowles" for Separating Iron Pyrites from Lead & Zinc Ores), Springfield, Mo.

Separators (Mud)

American District Steam Co., Lockport, N. Y.

Separators (Oil from Steel Chips)

(See Separators, Centrifugal)

***Separators (Pea)**

SPRAGUE CANNING MACHINERY CO. (Scott's Rotary Interchangeable), 5 Wabash av, Chicago, Ill. (See adv. index, end of book)

Separators (Reclaimed Rubber)

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio

Separators (Small Seed)

Nichols & Shepard Co., Battle Creek, Mich.

Separators (Steam & Oil)

(See also Oil & Grease Extractors)

Acton, John ("Nelson"), 118 John, Brooklyn, N. Y.

Albany Steam Trap Co. ("Blessing"), Albany, N. Y.

Ambrose Machine Co. ("De Rycke"), Eagle & Provost, Brooklyn, N. Y.

American District Steam Co., Lockport, N. Y.

AMERICAN SPIRAL PIPE WORKS, W 14th & 48th av, Chicago, Ill., & 39 Cortlandt, New York. (See adv. index & branch offices, end of book)

Angell & Co., John E., St. Louis, Mo.

Atwood & Morrill ("XX Century"), Salem, Mass.

Austin Separator Co. ("Austin" Oil), Detroit, Mich.

Baldwin Engineering Co. ("Baldwin"), 209 W 33d, New York

Baragwanath & Son, 55 W Division, Chicago, Ill.

Best Mfg. Co. ("Climax," Centrifugal), 25th & A V. Ry., Pittsburg, Pa.

Bushnell, John S. Co., 227 Fulton, New York
Central Station Steam Co., Detroit, Mich.
Colles, E. G. T. & Co., 20 S Canal, Chicago, Ill.
Crane Co. (of Chicago), Est. 1855. (See adv. Index & branch offices, end of book)
D'Este, Julian Co. ("Curtis"), Boston, Mass.
Direct Separator Co., ("Sweets"), Syracuse, N. Y.

Eureka Iron Co., 63 S Canal, Chicago, Ill.
Flint, S. E. & Co. ("St. Louis"), Security bldg., St. Louis, Mo.

GARDNER GOVERNOR CO., ("Gardner"), Quincy, Ill. (See adv. Index, end of book)

Goubert Mfg. Co. ("The Stratton," Live Steam), 90 West, New York

Harrison Safety Boiler Works ("The Cochran"), 17th. below Allegheny, Phila., Pa.
Hawley Down Draft Furnace Co. ("Hutchinson"), c Superior & Townsend, Chicago, Ill.
Hershey Machine & Foundry Co. ("Baum"), Manheim, Pa.

Hoppes Mfg. Co., Springfield, O.
Hughson Steam Specialty Co. ("Eclipse"), 5021 S. State, Chicago, Ill.

Hussey-McCann & Co. ("Peerless"), 87 Warren, New York

Huxley, C. E. & Co., 91 W Randolph, Chicago, Ill.

Ide, A. L. & Sons ("Ideal"), Springfield, Ill.
Ironton Engine Co. (Steam), Ironton, O.

Jacobs, Chas. & Co. ("Lowden"), Boston, Mass.
Jarvis Engine & Machine Works ("Moulter" Oil), Lansing, Mich.

Kellogg, M. W. Co., 50 Church, New York
Keyes, F. E. & Son ("Advance") 20 Broad, New York

Kieley & Mueller, 34 W. 13th, New York.
Kruger & Blind Co. ("Simpson's" Centrifugal Steam), 511 Master, Philadelphia, Pa.

KUTZTOWN FOUNDRY & MACHINE Co. (Compound for Steam Boilers), 116 N. Broad, Phila., Pa. (See adv. Index & branch offices, end of book)

Liberty Mfg. Co. ("Liberty-Greenway"), Pittsburgh, Pa.

Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.

Locke Regulator Co., Salem, Mass.
Loew Mfg. Co. ("Loew"), Cleveland, O.

Marion Inclue Filter & Heater Co. ("Packard"), Marion, O.

Mitchell, W. K. & Co., Schuylkill & Ellsworth, Phila., Pa.

Monash-Yunker Co. ("Goan" & "Monash"), 203 S Canal, Chicago, Ill.

Mosher, Chas. D. ("Mosher"), 1 B'way, New York

Nicholson, W. H. & Co. ("Wyoming" Steam Only), Wilkes-Barre, Pa.

Ohio Blower Co. ("Swartwout" Vertical), Cleveland, O.

Patterson, Frank L. & Co. ("Patterson"), 20 Cortlandt, New York

PITTSBURGH GAGE & SUPPLY CO. ("Pittsburgh"), 30th & Liberty av, Pittsburgh, Pa. (See adv. Index, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. R'y, Pittsburgh, Pa. (See adv. Index, end of book)

Potter Separator Co. ("Potter Mesh"), Newburgh, N. Y.

Power Plant Specialty Co. ("Vater," Two Stage Steam, etc.), 245 S Jefferson, Chicago, Ill.

Providence Steam Trap Co. ("Newton"), Providence, R. I.

Robertson, Jas. L. & Son (Inc.) ("Line" Eliminator), 48 Warren, New York

Sayre Bros. ("Ridge"), Phoebus, Va.
Schaeffer & Rudenberg Mfg. Co. ("Acme"), 963 Kent av, Brooklyn, N. Y.

SHAW, BENJ. F. CO., Wilmington, Del. (See adv. Index, end of book)

Simonds Heating & Specialty Co. ("Simonds" Steam Receiver & Separator, overcomes all Steam Pipe Vibration), Detroit, Mich.

Sims Co., Erie, Pa.
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York

Steam Appliance Co. ("Milwaukee," "Victor," "Ideal," & "Triumph" Centrifugal), Milwaukee, Wis.

Stewart Heater Co. (Separator & Purifier Combined), Buffalo, N. Y.

STRONG, CARLISLE & HAMMOND Co., 336-344 Frankfort av, N W, Cleveland, O. (See adv. Index, end of book)

THOMAS & SMITH (Inc.), 17 S. Carpenter, Chicago, Ill., & 288 Hudson, New York. (See adv. Index, end of book)

Thompson, Richard & Co., 126 Liberty, New York

Unique Engineering Co., 100 Hinsdale, Brooklyn, N. Y.

Watson & McDaniel Co. ("W. & McDaniel" and "Jennings"), 146 N 7th, Philadelphia, Pa.

Webster, Warren & Co. ("The Webster"), Camden, N. J.

Wheeler Condenser & Engineering Co. ("Baker" Oil), Cartaret, N. J.

Whitlock Coll Pipe Co. ("American"), Hartford, Conn.

Williams, D. T. Valve Co. ("Cookson" Automatic), 410 E 8th, Cincinnati, O.

Windsor Machine Co., Windsor, Vt.

Separators (Stone)

American Clay Machinery Co., Bucyrus, O.

Brewer, H. & Co., Tecumseh, Mich.
Great Western Mfg. Co. (For Separating Stone & Gravel from Wheat), Leavenworth, Kan.

Martin Henry Brick Machine Mfg. Co., Lancaster, Pa.

Sturtevant Mill Co. ("Newaygo"), Boston, Mass.

Wallace Mfg. Co., Frankfort, Ind.

Separators (Vacuum)

Austin Separator Co., 55 Woodbridge, W Detroit, Mich.

Separators (Waste Oil)

(See Separators, Centrifugal)

Servers

Riverside Metal Co., Riverside, N. J.

Sets (Lock)

Sargent & Co. ("Union"), New Haven, Conn.

Sets (Nail, Rivet, Saw, Etc.)

(These specialties are classified under their descriptive kinds)

Settees, Chairs, Etc. (Veneered)
(See Veneer Seating)

Settees (Gliding)

Goshen Mfg. Co. ("Boyers"), Gosben, Ind.
Kelly Mfg. Co., Waterloo, Ia.

Settees (Railroad)

American Seating Co., 90 Wabash av., Chicago, Ill.

Ahnapee, Veneer & Seating Co., Algoma, Wis.
Frost Veneer Seating Co., 206 Canal, New York

Kane, Thos. & Co. Works (Station, etc.), 90 Wabash av., Chicago, Ill. Works: Racine, Wis.

Settees (Rustic)

(See Rustic Woodwork)

Settees & Chairs (Iron)

(See also Fountains, Vases, Etc.)

Badger Wire & Pottery Co., Milwaukee, Wis.
Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.

Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.

Bayley, Wm. Co., Springfield, O.
Belmont Iron Works, 22d & Washington, Phila., Pa.

Bethlehem Foundry & Machine Co. (Iron Frame, Wooden Seat), Front st., S. Bethlehem, Pa.

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. Index, end of book)

Casey-Hedges Co. (Cast Iron Settees), Chattanooga, Tenn.

Central Wire & Iron Works, Indianapolis, Ind.
CHAMPION IRON CO., Kenton, Ohio (See adv. Index, end of book)

Cincinnati Iron Fence Co. (Also Wire), Cincinnati, Ohio

City Forge & Iron Works (Andrew Plocher, Prop.), Dayton, O.

COLUMBUS WIRE & IRON WORKS CO. (Settees Only), Columbus, O. (See adv. Index, end of book)

Fliske, J. W. Iron Works, 56 Park Pl, New York

Glen Mfg. Co., Elwood City, Pa.

Hinderer, C. A. F., New Orleans, La.

Jones, M. D. & Co., 71 Portland, Boston, Mass.

Jones, Willis H., Utica, N. Y.
Keystone Farm Machine Co. (Wood, Iron Frame), York, Pa.

Le Baron Foundry Co., Middleboro, Mass.
Ludlow-Saylor Wire Co., St. Louis, Mo.

McDonald Bros. (Cast Iron), Columbus, Ohio

Black Iron Works Co. (Wrought Iron), Sandusky, O.

Mott, J. L. Iron Works, 118 5th av, New York

Nimmo Fence & Wire Works Co., 305 E. 4th, Cincinnati, O.

Nute T. C. Foundry Co., Akron, O.

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. Index, end of book)

Oruamental Iron & Wire Co. (Inc.), Portsmouth, Va.

Smith Fence & Iron Co. (Steel), Waynesboro, Pa.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. Index, end of book)

Smyser, Royer Co., York, Pa., & Baltimore, Md.

Stewart Iron Works Co., Covington, Ky.

Swett, A. L. Iron Works, Medina, N. Y.

TAYLOR & DEAN, Penn av & 25th, Pittsburg, Pa. (See adv. Index, end of book)

VULCAN CO., Detroit, Mich. (See adv. Index, end of book)

Van Dorn Iron Works Co., Cleveland, O.

Washington Iron Works, 419 Pratt, Buffalo, N. Y.

Westervelt, A. B. & W. T., 102 Chambers, New York

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. Index, end of book)

Settees & Chairs (Lawn)

Adams Company ("Iron Fence"), Dubuque, Ia.

Badger Wire & Iron Works (Iron), Milwaukee, Wis.

Barnum, E. T. Wire & Iron Works, 82 Washington av, Detroit, Mich.

Bausman, D. H. (Wood, Iron Frame), Bausman, Pa.

Belcher & Taylor Ag'l Tool Co., Chicopee Falls, Mass.

Bernstein Mfg. Co. (Wood, Iron Frame), 3d & Allegheny av., Phila., Pa.

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. Index, end of book)

Buckstaff-Edwards Co., Osbkosh, Wis.

Buffalo Wire Works Co., Buffalo, N. Y.

Champlain Mfg. Co. (Wood, Iron Frame), Burlington, Vt.

Crocker Chair Co., Sheboygan, Wis.

Donaldson Bros., Mount Clemens, Mich.

ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. Index, end of book)

Farguhar, A. B. Co. York Pa. (book)

Fletcher & Webster Furniture Co. Nashua, N. H.

Gold Medal Camp Furniture Mfg. Co., Racine, Wis.

Hardware & Woodenware Mfg. Co. (Iron), 693 B'way, New York

Kalamazoo Sled Co. (Bent Wood, Folding & Swinging), Kalamazoo, Mich.

Keystone Farm Machine Co., York, Pa.

Mann Bros., 33 Erie, Milwaukee, Wis.

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. Index, end of book)

Mott, J. L. Iron Works (Wood, Iron Frame), 88 Beekman, New York

Moulton, C. W. H. & Co., Somerville, Mass.

Nashua Novelty Works, Nashua, N. H.

Ohio Rake Co., Dayton, Ohio

Stewart Iron Works Co., Covington, Ky.

VAN DORN IRON WORKS CO., 2685 N. 79th, Cleveland, O. (See adv. Index, end of book)

Western Implement Co., Port Washington, Wis.

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. Index, end of book)

Setters (Axle)

Steadham, W. S. ("Steadham" Cold Setter & Straightener), Boyse, Tex.

Setters (Skein)

Williams, White & Co., Moline, Ill.

Setters (Tie Plate)

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.

Setters (Tire)

Brooks Tire Machine Co. ("Brooks" Cold), Wichita, Kan.
Burt Mfg. Co., Kalamazoo, Mich.
Comstock, Geo. S. ("Wolf" Cold Tire Setter. Edge Grips), Mechanicsburg, Pa.
House Cold Tire Setter Co. ("House" Cold), St. Louis, Mo.
McGovern Tire Setter Co., Cincinnati, O.
MacGowan & Flanagan Fdy & Machine Co. ("House" Cold), Gay bldg, St. Louis, Mo.
Mayers Tire Setter Mfg. Co., 1721 N. 8th st., St. Louis, Mo.
Munnsville Plow Co. ("Bunch"), Munnsville, N. Y.
National Machine Co. ("Hercules" Hydraulic), Keokuk, Ia.
Standard Tire Setter Co. ("Scientific," "Henderson's" Hand Power), Keokuk, Ia.
West Tire Setter Co. ("West" Hydraulic), Rochester, N. Y.

Settings (Prism Glass)

National Sheet Metal Co., Peru, Ill.

Sewage Disposal Outfits (Odorless)

Edson Mfg. Co., 257 Atlantic av, Boston, Mass.
Noble, Henry A. ("National" & "The Improved"), 203 Dock, Philadelphia, Pa.

Sewage Disposal Plants

Bacterial Sewage Purification Co., 32 B'way, Bonnot Co., Canton, O.
CENTRAL FOUNDRY CO., (Pipe and Specials for), 37 Wall, New York. (See adv. index, end of book)
City-Wastes Disposal Co., 156 5th av., New York
Decarle Mfg. Co., 200 1st av, Minneapolis, Minn.
Lewis & Kitchen, 1200 Michigan av., Chicago, Ill.
MERRITT & CO., 94 Arch, Camden, N. J. (See adv. index, end of book)
Modern Iron Works ("Rhoads-Williams" Raw Sewage Syphon), Quincy, Ill.
Municipal Engineering & Contracting Co., 90 West, New York
Nelson, N. O. Mfg. Co. (Septic Tank Sewage Disposal System), St. Louis, Mo.
New York Sewage Disposal Co., 1 Madison av., New York
Pacific Flush Tank Co., 84 La Salle, Chicago, Ill.
Stehlings, W. L. (Sewage Disposal & Treatment), Monadnock Blk., Chicago, Ill.
Waring, Chapman & Farquhar ("Waring" System), 874 B'way, New York

Sewage Ejectors

I X L Pump & Mfg. Co. ("I. X. L."), 805 S 11th, Phila., Pa.
Jenkins Mfg. Co. ("Jenkins"), 20 Vesey, New York
MERRITT & CO., 94 Arch, Camden, N. J. (See adv. index, end of book)
Shone Co. ("Shone"), 134 Blackhawk, Chicago, Ill.
Walworth Mfg. Co., Boston, Mass.
Yeomans Bros., 98 Jackson boul, Chicago, Ill.

Sewage Lifts (Water Power)

Ansonia Mfg. Co., 355 W 26th, New York
MERRITT & CO. (For Raising, Flushing, Control of Sewage, etc.), 94 Arch, Camden, N. J. (See adv. index, end of book)

Sewer Braces

Dixon, Chas. E. & Son, 3027 Liberty av, Pittsburgh, Pa.
DUFF MFG. CO., (& French Braces), N. S., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Dunn Mfg. Co. ("Dunn" Alliance), Westinghouse bldg, Pittsburgh, Pa.
Kalamazoo Foundry & Machine Co. (Extension Trench), Kalamazoo, Mich.
Potter Mfg. Co. (Trench), Indianapolis, Ind.

Sewer Buckets

(See Buckets, Various Kinds; also Tubs, Various Kinds)

Sewer Builders

(See Contractors, General)

Sewer Couplings & Connections

Canton Cement Specialty Co., Canton, Ohio

Sewer Inlet Mfrs.

American Brake Shoe & Foundry Co., Mahwah, N. J., & Western Union bldg, Chicago, Ill.
Barber Mfg. Co., Ashtabula, O.
Buckeye Foundry Co., 2257 Buck, Cincinnati, O.
Burr, E. M. & Co., Champaign, Ill.
City Foundry Co., 1151 Hamilton, Cleveland, O.
Co-Operative Foundry Co., Detroit, Mich.
Davis & Thomas Co., Catasauqua, Pa.
Defiance Machine Works, Defiance, O.
Duplex Mfg. & Fdry. Co., Cleveland, O.
Elrth, Roland & Son, Phillipsburg, N. J.
Ford & Kimball, Concord, N. H.
Greger Mfg. Co., 22d & Wash'n av, Phila., Pa.
Hartnett, John J., Albany, N. Y.
Hayes Foundry Co., Lynn, Mass.
Kramer Bros. Foundry Co., Dayton, O.
Kuhns Bros., Dayton, O.
McDonald Bros., Columbus, O.
McDonald, H. W. & Son ("Star"), Gallon, O.
MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
Madison Foundry Co. ("Acme"), Cleveland, O.
Muncie Foundry & Machine Co., Muncie, Ind.
Over, Ewald, 426 S Penn, Indianapolis, Ind.
Sessions Foundry Co., Bristol, Conn.
Shunk Plow Co., Bucyrus, O.
South Bend Foundry Co., South Bend, Ind.
Stiles Foundry & Supply Co., Parkersburg, W. Va.
Thompson, J. & Co., c Van Horn & Sophia, Philadelphia, Pa.

Sewer Manhole Covers

(See Manhole Covers)

Sewer Manhole Steps

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Co-Operative Foundry Co., Detroit, Mich.
Maher & Flockhart, 62 Polk, Newark, N. J.

Sewer Pipe Machinery

(See Machinery, Sewer Pipe)

Sewer Pipe Mfrs.

American Clay Products Co., 138 Washington, Chicago, Ill.
AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)
American Sewer Pipe Co., Pittsburg, Pa.
Appleton Sewer Pipe Co., Appleton, Wis.
Argillo Works, Carbon Cliff, Ill.
Athens Fire Brick Co., Athens, Tex.
Avon Milling & Mfg. Co., Avon, Ill.
Bannon Brick & Sewer Pipe Co., Louisville, Ky.
Berthelet, H., Sewer Pipe Co. (Cement), Milwaukee, Wis.
Blackmer & Post Pipe Co., St. Louis, Mo.
Boynton, C. W., Seward, N. J.
Brocket, C. A. Cement Co., Kansas City, Mo.
Buckeye Fire Clay Co., Uhrichsville, O.
Buckeye Sewer Pipe Co., Akron, O.
Butte Sewer Pipe & Tile Co., Butte, Mont.
Carnegie Brick & Pottery Co., Montgomery Bldg., San Francisco, Cal.
Central N. Y. Drain Tile Co., Syracuse, N. Y.
Chattanooga Sewer Pipe & Fire Brick Co., Chattanooga, Tenn.
Chicago Sewer Pipe Co., 79 Dearborn, Chicago, Ill., & Brazil, Ind.
Clark, N. & Sons, San Francisco, Cal.
Clawson, L. E. & Co., San Francisco, Cal.
Cowden, F. H. & Son, Harrisburg, Pa.
Dee, Wm. E. Clay Mfg. Co., Royal Ins. bldg, Chicago, Ill.
Delaware Clay Mfg. Co., Delaware, O.
Denny-Renton Clay & Coal Co., Seattle, Wash.
Denver Sewer Pipe & Clay Co., Continental bldg, Denver, Colo.
Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
East Ohio Sewer Pipe Co., Irondale, O.
Eichelberger's, T. D. Sons, Dayton, O.
Evans & Howard Fire Brick Co. (Up to 36 inches), 920 Market, St. Louis, Mo.
Excelsior Clay Works, Brazil, Ind.

Federal Clay Mfg. Co., B'way & 23rd, New York

FISKE & CO., (Inc.) (Dealers), 25 Arch, Boston, Mass., & Flat Iron bldg, New York. (See adv. index, end of book)
Georgia Vitreous Brick & Clay Co., Augusta, Ga.
Gladding, McBean & Co., Crocker bldg, San Francisco, Cal.; Works, Lincoln, Cal.
Iowa Pipe & Tile Co., Des Moines, Iowa.
Joliet Mound Drain Tile Co., Joliet, Ill.
Laclede-Christy Clay Products Co., St. Louis, Mo.
Lehigh Sewer Pipe & Tile Co., Fort Dodge, Ia.
Little Falls Fire Clay Co., Tacoma, Wash.
Works: Little Falls, Wash.
Los Angeles Stoneware & Sewer Pipe Co., Los Angeles, Cal.
Louisville Brick & Tile Co., Louisville, O.
McNutt, Lewis, Brazil, Ind.
Mack Mfg. Co., Land Title bldg, Phila., Pa.; Works, New Cumberland, W. Va.
Macomb Sewer Pipe Co., Macomb, Ill.
Monmouth Milling & Mfg. Co., Monmouth, Ill.
NATIONAL FIRE PROOFING CO., Fulton bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
National Terra Cotta Works, Washington, D.C.
New York Pottery Co., 949 B'way, New York.
Northwestern Clay Co., New Windsor, Ill.
Owensboro Brick & Sewer Pipe Co., Owensboro, Ky.
Ohio River Sewer Pipe Co., Empire, O.
Pacific Clay Mfg. Co., Los Angeles, Cal.
Patton Clay Mfg. Co., Patton, Pa.
Pittsburg-Buffalo Co., Pittsburg, Pa.
Pittsburg Sewer Pipe & Conduit Co., Pittsburg, Kans.
Pomona Terra Cotta Co., Pomona, N. C.
Post Pipe Co., Texarkana, Tex.
Red Wing Sewer Pipe Co., Red Wing, Minn.
Reeve, Augustus, Camden, N. J.
Robinson Clay Product Co., Akron, O.
Rochester Sewer Pipe Co., Rochester, N. Y.
RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index & branch offices, end of book)
St. Marys Sewer Pipe Co. (3 to 36 inches), St. Marys, Pa.
San Antonio Sewer Pipe Co., San Antonio, Tex.
Schuylkill Valley Clay Mfg. Co., Mutual Life bldg, Phila., Pa. Works, Shoemakerville, Pa.
Shawmut Clay Mfg. Co. ("Shawmut"), Drummond, Pa., & 182 B'way, New York
Southern Sewer Pipe Co., Birmingham, Ala.
Standard Sewer Pipe Co., Rochester, N. Y.
Steiger Terra Cotta & Pottery Works, San Francisco, Calif.
Steven's, H. Sons Co., Macon, Ga.
Stratton Fire Clay Co., Empire, O.
Streator Clay Mfg. Co., Streator, Ill.
Uhl Pottery Co., Evansville, Ind.
Webster Bros., Shelbyville, Ill.
White Hall Sewer Pipe & Stoneware Co., White Hall, Ill.
Williams, N. A. Co., Chamber of Commerce bldg, Chicago, Ill.
Withycomb, Philip, North Yamhill, Ore.

Sewer Pipe Mfrs. (Cement)
AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)
Rhode Island Cement Drain Pipe Co. (Cement), 50 Valley, Providence, R. I.
Wilson & Baillie Mfg. Co. ("Kosmocrete"), 26 Court, Brooklyn, N. Y.

Sewer Pipe Mfrs. (Reinforced Concrete)
Lock Joint Pipe Co., 165 B'way, New York
Reinforced Concrete Pipe Co., Jackson, Mich.

Sewer Siphons
(See Flush Tank Manufacturers)

Sewing Machine Attachments
Russell Mfg. Co. (Button Sewers), Woolworth bldg, Lancaster, Pa.

Sewing Machine Mfrs.
Ames Mfg. Co., Chicopee, Mass.
Arlington Machine Works, Arlington, Mass.
Bauer Machine Co. (Lock Stitch), Jeffersonville, Ind.
Birch Bros., Somerville, Mass.
Chicago Wheel & Mfg. Co., 39 W Randolph, Chicago, Ill.
Clark-Fefel Mfg. Co., Frederick & Fayette, Baltimore, Md.

Curtis & Marble Machine Co. (Railway), Worcester, Mass.

Davis Sewing Machine Co., Dayton, O.
Dinsmore Mfg. Co., Salem, Mass.
Fales, L. F. ("Maniplex"), Walpole, Mass.
Foley & Williams Mfg. Co., 46 E Jackson boul., Chicago, Ill.

Illinois Sewing Machine Co., Wabash & Randolph, Chicago, Ill.; Works, Rockford, Ill.
Industrial Mfg. Co., Camden, N. J.
King Sewing Machine Co., Buffalo, N. Y.
Krusse & Co., 162 W 23d, New York
Krusse & Murphy Mfg. Co., Park av & E 130th, New York

Leyland, Thos. & Co. (Wholeback), 60 India, Boston, Mass.

Lycoming Foundry & Machine Co., Williamsport, Pa.

Merchants Specialty Mfg. Co. ("Simplicity"), 259 Greenwich, New York

Metropolitan Sewing Machine Co., Nyack, N. Y.
Morley Button Sewing Machine Co., 133 Essex, Boston, Mass.

National Automatic Knitter Co., 125 N. 5th, Phila., Pa.

National Sewing Machine Co., Belvidere, Ill.

New Domestic Sewing Machine Co., 18 Exchange pl., New York

New Home Sewing Machine Co., Orange, Mass.

Simmons Hardware Co. ("Volo"), St. Louis, Mo.

Singer Sewing Machine Co., 149 B'way, New York

Smith & Egge Mfg. Co. (Automatic Hand), Bridgeport, Conn.

Standard Sewing Machine Co., Cleveland, O.

Stanley Mfg. Co. (Shoe Sewing), Boston, Mass.

Union Button Sewing Machine Co., 164 High, Boston, Mass.

Union Special Machine Co., 75 E. Kluzie, White Co., Cleveland, O.

Wilcox & Gibbs Sewing Mach. Co., 658 B'way, New York

Williams Mfg. Co., Plattsburg, N. Y.

Sewing Machine Parts & Supplies

Sewing Machine Supplies Co., Boston, Mass.

Sewing Machines (Bag)

Union Special Machine Co., 75 E. Kinzie, Chicago, Ill.

Wilcox & Gibbs Sewing Mach. Co., 658 B'way, New York

Sewing Machines (Boot & Shoe)

Davis Sewing Machine Co., Davis & Linden av, Dayton, Ohio

Dunlap Machinery Co., 69 Beekman, New York

Fifield Shoe Machinery Co., 53 High, Boston, Mass.

Puritan Shoe Mfg. Co., 82 Lincoln, Boston, Mass.

Smith, Geo. A. Machinery Co., 415 Arch, Phila., Pa.

Stanley Mfg. Co., 99 Beach, Boston, Mass.

Tennis, A. H., 47 E 10th, New York

Treen-Sawyer Mfg. Co., Lynn, Mass.

Union Special Machine Co., 47 Leonard, New York

White Sewing Machine Co., Rose bldg., Cleveland, Ohio

Sewing Machines (Button Hole)

National Machine Co., Mamaroneck, N. Y.

Reece Button Hole Machine Co., Boston, Mass.

Standard Sewing Machine Co., 6402 Cedar av, S E, Cleveland, O.

Sewing Machines (Carpet)

Consolidated Carpet Sewing Machine Co., Bridgeport, Conn.

Singer Sewing Machine Co., 149 B'way, New York

Taft Machine Co., Providence, R. I.

Sewing Machines (Chain Stitch)

Krusse & Murphy Mfg. Co., Park av & E 130th, New York

Metropolitan Sewing Machine Co., Nyack, N. Y.

Singer Sewing Machine Co., 149 B'way, New York

Smith & Egge Mfg. Co. ("Little Comfort," Hand), Bridgeport, Conn.

Wilcox & Gibbs Sewing Machine Co., 658 B'way, New York

Sewing Machines (Glove)

Ahlstrom, O. J., 711 B'way, New York
Curtin-Helbert Mfg. Co., Gloversville, N. Y.
White Sewing Machine Co., Cleveland, O.
Wilcox & Gibbs Sewing Machine Co., 658 B'way, New York
Williams Mfg. Co., Montreal, Canada.

Sewing Machines (Hat)

Durbrow & Hearne Mfg. Co., 12 Wooster, New York

Shackles (Chain)

Hayden-Corbett Chain Co., Columbus, O.
Laughlin, Thos. Co., Portland, Me.
McMillan's, W. H. Sons, 153 South, New York
Wilcox, Crittenden & Co. (Screw & Pin, etc.), Middletown, Conn.

*Shade Cloth Cutting Machines

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Shade Cloth Mfrs.

Breneman, Chas. W. & Co., Cincinnati, O.

Columbia Shade Cloth Co., 27 W. 24th, New York

Minetto Shade Cloth Co., Oswego, N. Y.

Opaque Shade Cloth Co., Peoria, & W 121st, Chicago, Ill.

Oswego Shade Cloth Co. ("Chouaguen"), Oswego, N. Y.

*Shade Cord Mfrs.

(See also Cords, Trolley, Arc Lamp & Bell)

SAMSON CORDAGE WORKS, 88 Broad, Boston, Mass. (See adv. index, end of book)

SILVER LAKE CO., 78 Chauncy, Boston, Mass. (See adv. index, end of book)

Shades (Aluminum)

Dale Co., 352 W. 13th, New York.

Faries Mfg. Co., Decatur, Ill.

Tea Tray Co., Mulberry & Murray, Newark, N. J.

Shades (Car)

Boston Artificial Leather Co. ("Moroccoline"), Stamford, Conn.

Celluloid Co. ("Texordem"), 30 Washington pl., New York

Chase, L. C. & Co., Boston, Mass.

Curtain Supply Co., 85 Ohio, Chicago, Ill.

National Lock Washer Co., Newark, N. J.

Pantasote Co., 11 B'way, New York

Shades (Glass, Pressed or Blown)

Gillender & Sons (Inc.), 135 Oxford, Phila., Pa.

United States Glass Co., Pittsburg, Pa.

Shades (Glass & Metal)

McCreary, A. A. (Shades, Half Glass & Metal), 136 Liberty, New York

Salo Art Metal Co. (For Gas & Electric Portables), 19 Coiller, Binghamton, N. Y.

Shades (Mirror Lined)

Bailey Reflector Co., 547 4th av, Pittsburg, Pa.

FRINK, ISAAC P., 551 Pearl St, New York. (See adv. index, end of book)

Shades (Paper)

Hohenstein, H. Co., 30 Waverly pl., New York

Whaley, J. A. & Co., 812 Greenwich, New York

Will & Baumer Co., 18 Murray, New York

Yost Electric Mfg. Co., Toledo, O.

Shades (Porch)

Comey, R. H. Co. ("Komi" Porch Curtains), Camden, N. J.

Hough Shade Corporation ("Vudor"), Janesville, Wls.

Shades (Prismatic)

Gilbert Prism Hood Co. (For Electric Lamps), 99 Warren, New York

Holophane Glass Co., Newark, Ohio

Weisbach Co., 922 Chestnut, Phila., Pa.

Shades (Silk)

Dale Co., 9th av & 13th, New York

FRINK, ISAAC P., 551 Pearl St, New York. (See adv. index, end of book)

Hohenstein, H. Co., 30 Waverly pl., New York

Whaley, J. A. & Co., 812 Greenwich, New York

Will & Baumer Co., 18 Murray, New York

Shades (Trolley Vestibule)

Electric Service Supplies Co., 1024 Fulbert, Phila., Pa.

Shades & Reflectors (Glass or Porcelain)

Acorn Shade & Reflector Co., Chicago, Ill.

Addison Glass Works, Addison, N. Y.

Alton Mfg. Co., Sandwich, Mass.

Cleveland Window Glass Co., Cleveland, Ohio

Consolidated Lamp & Glass Co., Cornopolis, Pa.

Dayton Art Glass Works (Art Glass), Dayton, Ohio

Gilbert Prism Hood Co., New York

Gill & Co. (Washington Flint Glass Works), 2327 E. Thompson, Philadelphia, Pa.

Gillender & Sons (Inc.), 135 Oxford, Philadelphia, Pa.

Haskins Glass Co., Martins Ferry, Ohio.

Illuminating Engineering Co. ("Pagoda"), 201 E. 16th, New York

Kneeland Reflector Co., 18 Pitts, Boston, Mass.

McCreary, A. A., 136 Liberty, New York

Murray, James J. & Co., c E Willard & Collins, Philadelphia, Pa.

National X-Ray Reflector Co., 247 Jackson boul., Chicago, Ill.

Palrpoint Corp'n, New Bedford, Mass.

Pettingell, Andrews Co., Boston, Mass.

Phoenix Glass Co. ("Electric & Gas"), 2d Nat'l Bank Bldg., Pittsburg, Pa.

Sandwich Glass Co., Sandwich, Mass.

Shelby Electric Co., Shelby, Ohio

Sunlight Reflector Co., 141 Court, Brooklyn, N. Y.

Unique Art Glass & Metal Co., 105 Vanderveer, Brooklyn, N. Y.

Shades & Reflectors (Metallic)

American Reflector & Lighting Co. ("Paragon"), 199 E Van Buren, Chicago, Ill.

Bailey Reflector Co., 547 4th av, Pittsburg, Pa.

Baltimore Enamel & Novelty Co. cor. Allen & Clement, Baltimore, Md.

Berggreu Mfg. Co., St. Paul, Minn.

Chicago Lamp & Reflector Co., 319 S Canal, Chicago, Ill.

Curtis Leger Fixture Co. ("Poke Bonnet"), 240 Jackson boul., Chicago, Ill.

Cutter, George Co., South Bend, Ind.

Dale Co., 352 W. 13th, New York.

D'Oller, Henry, Jr., Co., 119 S 11th, Philadelphia, Pa.

Dorn, Philip ("Dawn"), Boston, Mass.

Faries Mfg. Co., Decatur, Ill.

Federal Electric Co., c Lake & N. Desplaines, Chicago, Ill.

FRINK, ISAAC P., 551 Pearl, New York. (See adv. index, end of book)

Gleason, E. P. Mfg. Co., 37 Murray, New York

Globe Light & Heat Co., 218 La Salle, Chicago, Ill.

Hathaway Electric Co., New York

Hubbell, Harvey, Bridgeport, Conn.

Klemm & Co., 132 N 5th, Philadelphia, Pa.

McCreary, A. A. (Shades), 136 Liberty, New York

McLeod, Ward & Co., 27 Thames, New York.

MORSE, FRANK W., 516 Atlantic av., Boston, Mass. (See adv. index, end of book)

Ostrander, W. R. & Co., 22 Dey, New York.

Overhaugh & Ayres Mfg. Co. ("Omaco" Show Case Reflectors), 232 S. Clinton, Chicago, Ill.

Pardridge Shade & Reflector Co., Chicago, Ill.

Proctor-Raymond Mfg. Co. ("Hartwig"), 40 Larned, Detroit, Mich.

Roberts, H. C. Electric Supply Co. ("Crown"), 905 Arch, Philadelphia, Pa.

Sarco Co., 906 6th av., New York.

Schwartz & Silberman, 72 W B'way, New York

Standard Electric & Chemical Co. ("Universal"),
224 S. Clinton, Chicago, Ill.
Tea Tray Co. ("Tidman," "Martlin"), c. Mul-
berry & Murray, Newark, N. J.
Vallce Bros. Electrical Co. ("Crescent"), 81
Arch, Philadelphia, Pa.
Western Reflector Co., 315 W Lake, Chicago,
Ill.
Wheeler Reflector Co., 156 Pearl, Boston
Mass.
Yost Electric Mfg. Co. ("Fiberlite"), Toledo,
Ohio

Shades & Reflectors (Mirror)

Acorn Shade & Reflector Co., 73 Ellen, Chi-
cago, Ill.
American Reflector & Lighting Co. ("Para-
gon"), 52 W Jackson boul, Chicago, Ill.
Bailey Reflector Co., Pittsburg, Pa.
Chicago Lamp & Reflector Co. ("Blocks Brill-
lant"), 193 Wabash av, Chicago, Ill.
FRINK, ISAAC P., 551 Pearl, New
York. (See adv. index, end of book)
Klemm & Co., 132 N 5th, Philadelphia, Pa.
Matthews, W. N. & Bro. ("Easy Light"), St.
Louis, Mo.
National X-Ray Reflector Co. ("Helmet,"
"Poke," "Bonnet"), 249 Jackson boul, Chi-
cago, Ill.
Overbaugh & Ayres Mfg. Co., 232 S Clinton,
Chicago, Ill.
Sunlight Reflector Co., 141 Court, Brooklyn,
N. Y.
Tea Tray Co., c. Mulberry & Murray, New
ark, N. J.
Weekes, Nelson, 217 William, New York.
Western Reflector Co., 315 W Lake, Chicago,
Ill.
Wheeler Reflector Co., 156 Pearl, Boston
Mass.

Shaft Straightening Machines

(See Machines. Shaft Straightening)

Shafting (Cold Drawn Steel)

AMERICAN STEEL & WIRE CO.,
Commercial Natl. Bank bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)
Cambria Steel Co., Arcade bldg., Phila., Pa.
Columbia Steel & Shafting Co., Pittsburg, Pa.
Crucible Steel Co. of America, Frick bldg,
Pittsburg, Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Jones & Laughlin Steel Co. (Also Cold Rolled),
Pittsburg, Pa.
Medart Patent Pulley Co., 3500 De Kalb, St.
Louis, Mo.
Pardee, C. Works, Perth Amboy, N. J.
Pennsylvania Shafting Co., Spring City, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
UNION DRAWN STEEL CO., Beaver
Falls, Pa., & 460 Washington, New York

Shafting Collars

BROWN, A. & F. CO., 25 Dey, New York
Works, Elizabethport, N. J. (See adv.
index, end of book)
CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)
Chain Belt Co., Milwaukee, Wis.
Fesson, Geo. V. Co., Allegheny av, W of 17th
Phila., Pa.
Dodge Mfg. Co., Mishawaka, Ind.
Falls Rivet & Machine Co., Cuyaboga Falls, O.
Huntsville Foundry & Machine Works (Nolan
& Jones, Props.), Huntsville, Ala.
Jones & Laughlin Steel Co. (Steel, Loose
etc.), Pittsburg, Pa.
Keystone Drop Forge Works (Drop Forged
Blanks, etc.), Chester, Pa.
Klein, Chas. C., 2850 N Marshall, Phila., Pa.
Medart Patent Pulley Co. (Plain or Safety
Type), St. Louis, Mo.
Middletown Machine Co., Middletown, O.
PATTERSON, GOTTFRIED & HUN-
ter (Ltd.) ("Johnson" Safety, Solid &
Split), 211 Centre, New York

PLATT IRON WORKS CO., (Set
Collars, etc.), Dayton, O. (See adv. index
& branch offices, end of book)
Poole Engineering & Machine Co., Woodberry
Station, Baltimore, Md.
Rhode Island Tool Co. (Cold Punched), Provi-
dence, R. I.
Smith, M. I. (Split & Solid), Bristol, Conn.
Standard Pressed Steel Co. ("Hallowell," Cold
Rolled Steel), 20th & Clearfield, Phila., Pa.
Williams, J. H. & Co. (Drop Forged), 150
Hamilton av, Brooklyn, N. Y.
Wood's, T. B. Sons Co. (Safety Set), Chambers-
burg, Pa.

Shafting (Heavy Forged Steel)

Bethlehem Steel Co. (Solid or Hollow), South
Bethlehem, Pa.
Cambria Steel Co., Arcade bldg., Phila., Pa.
Carnegie Steel Co., Pittsburg, Pa.
Cleveland City Forge & Iron Co., Cleveland, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Pennsylvania Steel Co., Girard bldg., Phila.,
Pa.
Philadelphia Forge Co., 50 Church, New York
Pittsburg Forge & Iron Co., Pittsburg, Pa.
Reading Iron Co., Reading, Pa.

Shafting (Hollow Seamless Steel)

Dodge Mfg. Co., Mishawaka, Ind.
National Tube Co. ("Shelby"), Pittsburg, Pa.
Standard Seamless Tube Co., Ellwood City, Pa.

Shafting (Iron & Steel)

(The Firms under this heading all Roll
Shafting)

American Bridge Co. (Open Hearth Steel),
Pittsburg, Pa.
AMERICAN STEEL & WIRE CO.,
Commercial Natl. Bank bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)
Braeburn Steel Co. (Steel Only), Braeburn, Pa.

COATES

Flexible Shaft Outfits

1-10 TO 150 H. P. ALL THE SAME TO US.

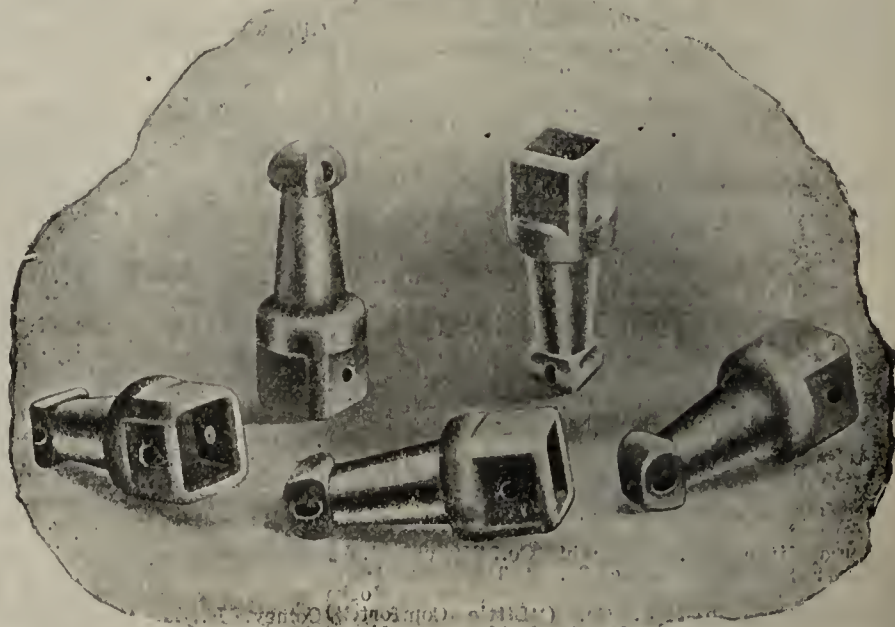
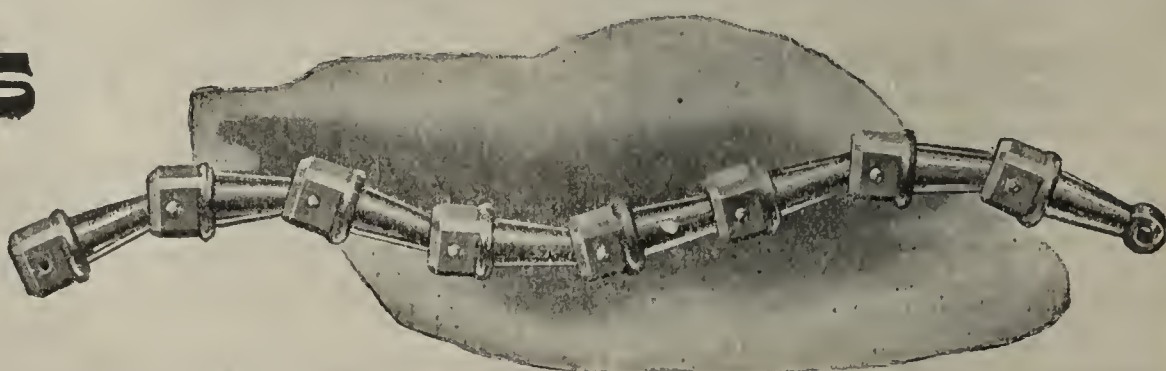
Both motor and belt-driven outfits. Flexible shaft-
ing built on the unit link ball-bearing type. Run it
in either direction.
Used for Drilling,
grinding, buffing,
varnish rubbing, sand
papering, etc.



Get after us, so that we
may get after you.

Coates Clipper Mfg. Co.

Worcester, Mass., U. S. A.



CONSTRUCTION OF COATES SHAFT

Cambria Steel Co. (Steel Only), Arcade bldg., Phila., Pa.
Cumberland Steel Co. (Turned & Ground Steel), Cumberland, Md.
Illinois Steel Co. (Steel Only), 115 Adams, Chicago, Ill.
Jones & Laughlin Steel Co. (Steel Only), Pittsburgh, Pa.
Judson Mfg. Co. (Iron), San Francisco, Cal.
Licking Rolling Mill Co. (Iron Only), Covington, Ky.
Lockhart Iron & Steel Co., Pittsburg, Pa.
Penn Iron Co. (Iron only), Lancaster, Pa.
Pennsylvania Steel Co. (Steel Only), Girard bldg., Philadelphia, Pa.
Reading Iron Co., Reading, Pa.

Shafting (Polished Steel)

AMERICAN STEEL & WIRE CO., Commercial Natl. Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Bliss & Laughlins (Keyseated & Fitted with Couplings), Harvey, Ill.
Brightman Mfg. Co. ($\frac{1}{4}$ to 6 inches, inclusive), Shelby, O.
BROWN, A. F. & CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Buffalo Steel Shafting Works, ft Baitz av, Buffalo, N. Y.
Cambria Steel Co., Arcade bldg., Phila., Pa.
Columbia Steel & Shafting Co., Pittsburg, Pa.
Compressed Steel Shafting Co., 393 Dorchester av, Boston, Mass.
Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.
Crucible Steel Co. of America, Frick bldg., Pittsburgh, Pa.
Cumberland Steel Co. (Turned & Ground), Cumberland, Md.
Dodge Mfg. Co., Mishawaka, Ind.
Flinted Steel Co., Youngstown, O.
Fitzsimmons & Co., Cleveland, O.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Medart Patent Pulley Co., St. Louis, Mo.
Penn Shafting Co., Spring City, Pa.
Pittsburg Shafting Co. of Detroit, Detroit, Mich.
Pennsylvania Steel Co. (1 to 5 15-16 ins. in diameter), Girard bldg., Phila., Pa.
Republic Iron & Steel Co. ("Acme"), Pittsburg, Pa.
UNION DRAWN STEEL CO., Beaver Falls, Pa., & 460 Washington, New York

Shafting (Turned)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Tool & Machine Co. (Iron), 109 Beach, Boston, Mass.
BROWN, A. & F. CO. (Steel), 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
Cleveland City Forge & Iron Co., Cleveland, O.
Cumberland Steel Co. (Turned & Ground Steel), Cumberland, Md.
Dodge Mfg. Co., Mishawaka, Ind.
Medart Patent Pulley Co. (Steel), 3500 De Kalb, St. Louis, Mo.
Pittsburg Shafting Co. of Detroit (Steel), Detroit, Mich.
PLATT IRON WORKS, CO., Dayton, O. (See adv. index & branch offices, end of book)
STANDARD GAUGE STEEL CO., Beaver Falls, Pa. (See adv. index, end of book)
Tloga Steel & Iron Co., 52d & Grav's av, Phila., Pa.
Titusville Forge Co. (Forged 10 lbs. to 20 Tons), Titusville, Pa.
UNION DRAWN STEEL CO. (Steel), Beaver Falls, Pa., & 460 Wnsh'n, New York

Shafts (Flexible)

CHICAGO FLEXIBLE SHAFT CO., La Salle av & Ontario, Chicago, Ill. (See adv. index & branch offices, end of book)
COATES CLIPPER MFG. CO. ("Coates" Unit Link), Worcester, Mass. (See adv. index, end of book)
Gem Mfg. Co. ("Gem"), Spruce nr 33d, Pittsburgh, Pa.
Stow Flexible Shaft Co., N 26th & Buttonwood, Philadelphia, Pa.
Stow Mfg. Co., Binghamton, N. Y.
Webb Mfg. Co., Newark, N. J.

*Shafts (Flexible, Boat, Sand Papering & Varnish Rubbing)

COATES CLIPPER MFG. CO., Worcester, Mass. (See adv. index, end of book)

*Shafts (Flexible, Stone Polishing)

COATES CLIPPER MFG. CO., Worcester, Mass. (See adv. index, end of book)

Shafts (Key Seating)

Dodge Mfg. Co., Mishawaka, Ind.
Judson Mfg. Co., San Francisco, Cal.
Lockhart Iron & Steel Co., McKees Rocks, Pa.
Pardee, C., Works (Planished), Perth Amboy, N. J.
Penn Iron Co. (Iron), Lancaster, Pa.
Pittsburg Steel Shafting Co., Braddock, Pa.
Reading Iron Co., Reading, Pa.
Republic Iron & Steel Co., Pittsburg, Pa.
STANDARD GAUGE STEEL CO., Beaver Falls, Pa. (See adv. index, end of book)
UNION DRAWN STEEL CO., Beaver Falls, Pa., & 460 Washington, New York

Shampoos

Edwardsville Brass Co., Edwardsville, Ill.

*Shanks (Carrying)

ANDERSON FORGE & MACHINE CO. (Double & Single), 271 Guolin, Detroit, Mich. (See adv. index, end of book)
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Shapes (Pressed Metal)

American Pulley Co., 29th c. Bristol, Phila., Pa.
Globe Machine & Stamping Co., 3868 Hamilton av, Cleveland, O.

Shares (Plow & Lister)

Crescent Forge & Shovel Co. (Plow), Havana, Ill.
Havana Metal Wheel Co. ("Crescent"), Havana, Ill.
Star Mfg. Co., Carpentersville, Ill.
Weyburn Co., Rockford, Ill.

Sharpeners (Disc)

B. B. Mfg. Co., Davenport, Ia.
Benecia Iron Works ("Peerless"), Benecia, California
Chicago Wheel & Mfg. Co. (Gem), Chicago, Ill.
Clark Mfg. Co. (Moline), Moline, Ill.
Clizbe Bros. Mfg. Co. (Plymouth), Plymouth, Ind.
Deere & Mansur Co., Moline, Ill.
Durner, A. E. ("Wouder." "Little Giant"), Evansville, Wis.
Hammond, R. M. Co. ("Perfection." With Emery Staud Attachment), Dellyale, Kau.
Herschel, R. Mfg. Co. (Reliable), Peoria, Ill.
Kane Bros. & Co., Warren, Ill.
Lancaster Mfg. Co. ("New Lancaster"), Massillon, In.
Luther, C. J. Co. ("American" & "Star"), Port Washington, Wis.
Murray Iron Works Co. ("Monarch"), Burlington, N. Y.
Novelty Mfg. Co., Rock Island, Ill.
Rock Island Plow Co., Rock Island, Ill.
Schofield & Co. ("Daisy"), Freeport, Ill.
Shipp & Dickerson ("Winner"), Renner, Tex.
Skow Bros. ("Skow"), Newton, Iowa
Weenzelman Mfg. Co. ("Farmers' Delight"), Streator, Ill.

Sharpeners (Dowel)

Smith, H. B. Machine Co., Smithville, N. J.
Stanley Rule & Level Co., New Britain, Conn.

Sharpeners (Drill)

Brossolt, James J. ("Numa"), Salt Lake City, Utah
Eclipse Drill Sharpening Machine Mfg. Co. ("Eclipse"), Denver, Colo.
Leyner, J. G., Engineering Works Co., Littleton, Colo.
Lund, P. H. (Pneumatic), Denver, Col.
Proske, T. H. ("Ajax"), Denver, Col.
Word Bros., 60 Castro, San Francisco, Cal.

*Sharpeners (Drill Steel)

INGERSOLL-RAND CO. ("Ajax"), 11 B'way, New York. (See adv. index & branch offices, end of book)

Sharpeners (File)

(See also File Sharpening Machines)
American File Sharpener Co. ("American"), 287 B'way, New York

Sharpeners (Floor Scraper)

Weber Mfg. Co. ("Weber" Automatic), West Allis, Wis.

Sharpeners (Knife)

American Cutlery Co. ("The Only"), 193 Madison, Chicago, Ill.
Cassady-Fairbank Mfg. Co. (Emery & Corundum), 610 La Salle, Chicago, Ill.

Sharpeners (Lawn Mower)

Arcade Mfg. Co. ("Schofield" Lawn Mower Grinder), Freeport, Ill.
Chicago Wheel & Mfg. Co. ("Chicago," "Eureka," "Gem," "Peoria"), 336 W Monroe, Chicago, Ill.
Clizbe Bros. Mfg. Co., Plymouth, Ind.
Coldwell Lawn Mower Co. ("Coldwell"), Newburgh, N. Y.
Hampden Corundum Wheel Co., Brightwood, Springfield, Mass.
Heath Foundry & Mfg. Co. ("Ideal" Grinder), Plymouth, Ohio
National Mach. & Stamping Co., Detroit, Mich.
Osborn Mfg. Co. ("Osborn"), Cleveland, O.
Royal Mfg. Co., 408 Commerce, Phila., Pa.
Spruger, B. C. & Co., Mason City, In.
Wilcox Mfg. Co. ("Wilcox"), Aurora, Ill.

Sharpeners (Mower Knife)

(See Grinders, Sickle & Mower Knife)

Sharpeners (Pencil)

Automatic Pencil Sharpener Co. ("U. S. Automatic"), Spring & Crosby, New York.
Cook, F. H. & Co. ("Gem"), Leominster, Mass.
North American Supply Co. ("N. A."), Columbus, Ohio
Wehster, F. S. Co. ("Wehster"), Boston, Mass.
Weeks, A. A. Mfg. Co. ("Handy"), 11 Gold, New York

Sharpeners (Saw)

(See also Saw Sharpening Machines; also Band Saw Filing & Setting Machines; also Saw Filing & Setting Machines)
Atkins, E. C. & Co., Indianapolis, Ind.
COVEL MFG. CO. (Band Saw, etc.), Beuton Harbor, Mich. (See adv. index, end of book)
Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
Hanchett Swage Wks. ("Hanchett" Automatic), Big Rapids, Mich.
Matteson Mfg. Co., 128 S Clinton, Chicago, Ill.
Nutter, Barnes & Co. (Automatic), Boston, Mass.
Riverside Iron Works ("Crescent"), Kokomo, Indiana
Rotary File & Machine Co. ("Ideal"), 589 Kent av, Brooklyn, N. Y.
Star Corundum Wheel Co. (Automobiles), Detroit, Mich.
Wickes Bros. (Hand, etc.), Saginaw, Mich.

*Sharpeners (Skate)

OSBORN MFG. CO. ("File 'em Quick"), 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Sharpeners (Tool)

Walker, Oakley S. & Co. ("Globe" for Machine Tools), Worcester, Mass.

*Sharpeners (Toe Calk)

COATES CLIPPER MFG. CO., Worcester, Mass. (See adv. index, end of book)

Shavers (Ice)

(See also Ice Cube Cutting Machines)

Arcade Mfg. Co., Freeport, Ill.
Blakeslee, G. S. & Co., 325 Dearborn, Chicago, Ill.
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.
Erie Specialty Co. ("Walker's"), Erie, Pa.
Gilechrist Co. ("Yankee" Steel), Newark, N. J.
Griswold Mfg. Co., Erie, Pa.
Hardware & Woodenware Mfg. Co., 693 B'way, New York
Hiles, C. A. & Co., 14th & Western av, Chicago, Ill.
North Bros. Mfg. Co., Lehigh av & American, Philadelphia, Pa.
Reinhold Mfg. Co. ("Jumbo"), Detroit, Mich.
Schutte, E. G. & Co. ("Schutte"), 230 Stark, Cincinnati, Ohio
Stortz, John & Son, 210 Vine, Phila., Pa.

Shavers (Smoked Beef)

Blakeslee, G. S. & Co. ("Blakeslee"), 325 Dearborn, Chicago, Ill., & 260 B'way, New York
Enterprise Mfg. Co., 3d & Dauphin, Phila., Pa.

Shaves (Spoke)

Chaplin-Stephens Co., Pine Meadow, Conn.
Cincinnati Tool Co., Cincinnati, Ohio
Goodell-Pratt Co., Greenfield, Mass.
Johnson, Wm. (Hedenberg Works), (Wood),
Mack & Co., Rochester, N. Y. Newark, N. J.
Miller's Falls Co., 28 Warren, New York
Works: Miller's Falls, Miss.
Ohio Tool Co., Columbus, Ohio
Osborne, C. S. & Co. ("C. S. O. & Co." Harness Makers, etc.), Harrison, N. J.
Smith, Seymour & Son, Oakville, Conn.
Stanley Rule & Level Co., New Britain, Conn.
Stearns, E. C. & Co., Syracuse, N. Y.
Stortz, Jno. & Son, 210 Vine, Philadelphia, Pa.
Tatum, Sam'l C. Co., Cincinnati, Ohio

Shavings (Baled)

Alliger, F. I. Lumber Co., Tonawanda, N. Y.
Butts, Chas. G. Co., North Tonawanda, N. Y.
Empire Lumber Co., Winona, Minn.
Page, Geo. B. Box Co., Cambridge, Mass.
Osgood, Blodgett Mfg. Co., St. Paul, Minn.

Shavings (Vinegar & Brewers')

Kelso & Co. (Clarifying), 209 S Clinton, Chicago, Ill.
Redlich Mfg. Co., 2 Oak, Chicago, Ill.

Shavings (Zinc)

Braun, F. W., Los Angeles, Cal.
Calkins Co., Los Angeles, Cal.
Denver Fire Clay Co., Denver, Col.
Pacific Tank Co. (for Gold, Silver Precipitation), Los Angeles, Cal.

Shears

(Under this Heading see Sub-classifications)
(See also Machinery, Punching & Shearing; also Punches, Various Kinds)

Shears (Alligator)

American Roll & Foundry Co., Canton, O.
CANTON FOUNDRY & MACHINE CO.
("Universal"), Canton, O. (See adv. index, end of book)
CARLIN'S, THOS. SONS CO., 1610
River av., North Side, Pittsburg, Pa. (See adv. index, end of book)
Danville Foundry & Machine Co., Danville, Pa.
Evans, John Sons, 13th & Buttonwood, Phila., Pa.
Mesta Machine Co., Lewis bldg., Pittsburg, Pa.
Rock River Machine Co. ("Badger" Belt Driven), Janesville, Wis.
Seafie Foundry & Machine Co. (Crocodile), Pittsburg, Pa.
Sutton, C. E. Co., Toledo, O.
United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Shears (Angle Iron)

Alliance Machine Co., Alliance, O.
Badger State Machine Co., Janesville, Wis.
Bethlehem Foundry & Machine Co., South Bethlehem, Pa.
Bertsch Machine Co., Cambridge City, Ind.

BLISS, E. W. CO., 19 Adams, B'klyn, New York. (See adv. index, end of book)
CLEVELAND PUNCH & SHEAR
Works Co., Cleveland, O. (See adv. index, end of book)

Fischer Foundry & Machine Co., Ford City, Pa.
Hiles & Jones Co., Wilmington, Del.
Long & Allstatter Co. (Steam, Belt or Motor Driven, Double or Single Geared & on Turntable), Hamilton, O.
New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York
Pels, Henry & Co. ("John's" Patent), 90 West, New York

Perkins Machine Co., Warren, Mass.
Phila. Roll & Machine Co., 23d & Wash'n av, Phila., Pa.

Rock River Machine Co. ("Badger"), Janesville, Wis.
Royersford Fdry & Machine Co., Royersford, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.

Sutton, C. E. Co. (Single & Double Power), Toledo, Ohio
Toledo Machine & Tool Co., Toledo, O.

United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa., & Youngstown, O.

WATSON-STILLMAN CO., 50 Church,
New York. (See adv. index, end of book)
Whiting, Geo. C. 156 W. North av., Chicago, Ill.

Williams, White & Co., Moline, Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. index, end of book)

Shears (Bar & Plate)

Alliance Machine Co., Alliance, O.
American Roll & Foundry Co., Canton, O.
Badger State Machine Co., Janesville, Wis.

BLISS, E. W. CO., 19 Adams, Brook-
lyn, N. Y. (See adv. index, end of book)
CLEVELAND PUNCH & SHEAR WORKS
Co., Cleveland, O. (See adv. index, end of book)

Fischer Foundry & Machine Co., Ford City, Pa.
Garrison, A., Foundry Co., Pittsburg, Pa.

Long & Allstatter Co. (Bar Iron, Steam, Belt or Motor Driven), Hamilton, O.
Mesta Machine Co., Lewis blk., Pittsburg, Pa.

MORGAN ENGINEERING CO., Alliance, O.
(See adv. index & branch offices, end of book)
Newbold, R. S. & Son Co., Norristown, Pa.

New Doty Mfg. Co., Janesville, Wis.
NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)

Philadelphia Roll & Machine Co., 23d & Wash., Phila., Pa.

Phillips & McLaren, Pittsburg, Pa.
PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index & branch offices, end of book)

Rock River Machine Co. ("Badger" Bar & Round Iron Shears), Janesville, Wis.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Phila., Pa.
Sutton, C. E. Co., Toledo, O.

United Engineering & Foundry Co., Pittsburg, Pa., & Youngstown, O.

Whiting, Geo. C. 156 W. North av., Chicago, Ill.
Wickes Bros., Saginaw, Mich.

Williams, White & Co., Moline, Ill.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Philadelphia, Pa.

YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. index, end of book)

Shears (Beam & Channel)

(See Shears, Angle Iron)

Shears (Bench)

Merwin Mfg. Co., Erie, Pa.
NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)

Oliver, W. W. Mfg. Co. (Jewelers), 1483 Niagara, Buffalo, N. Y.
Viking Shear Co. ("Viking"), Erie, Pa.

Shears (Beveling)

Badger State Machine Co., Janesville, Wis.
BLISS, E. W. CO., 19 Adams, B'klyn,
N. Y. (See adv. index, end of book)

CLEVELAND PUNCH & SHEAR WORKS
Co., 1306 E. 40th, Cleveland, O. (See adv. index, end of book)

Fischer Foundry & Machine Co., Ford City, Pa.
Hiles & Jones Co., Wilmington, Del.

Long & McAllstatter Co. (Boiler Plate, etc.), Hamilton, O.
New Doty Mfg. Co., Janesville, Wis.

NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)
Niles-Bement-Pond Co., 111 B'way, New York

Perkins Machine Co. (Plate Beveling), Warren, Mass.
Ryerson, Jos. T. & Son ("Lennox" Rotary), 16th & Rockwell, Chicago, Ill.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton, Philadelphia, Pa.
United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank bldg., Pittsburg, Pa.

Shears (Billet & Bloom)

Alliance Machine Co., Alliance, O.
American Roll & Foundry Co. (Billet), Canton, O.

Bethlehem Steel Co., South Bethlehem, Pa.
BLISS, E. W. CO., 19 Adams, B'klyn, New York. (See adv. index, end of book)

CLEVELAND PUNCH & SHEAR
Works, Cleveland, O. (See adv. index, end of book)

Fischer Foundry & Machine Co., Ford City, Pa.
Lewis Foundry & Machine Co., Coraopolis, Pa.

Long & McAllstatter Co. (Belt, Motor or Steam Driven), Hamilton, O.
Mackintosh, Hemphill & Co., Pittsburg, Pa.

Mesta Machine Co., Lewis blk., Pittsburg, Pa.
Morgan Construction Co., Worcester, Mass.

MORGAN ENGINEERING CO. (Duplex,
Hydraulic & Electric), Alliance, O. (See adv. index, & branch offices, end of book)

New-Doty Mfg. Co. (Heavy Motor Driven), Janesville, Wis.
Phillips & McLaren, 24th & Smallman, Pittsburg, Pa.

United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.
Williams, White & Co., Moline, Ill.

Wood, R. D. & Co. (Hydraulic), 400 Chestnut, Phila., Pa.

Shears (Brushmakers')

Stortz, John & Son, 210 Vine, Phila., Pa.

Shears (Circle)

Badger State Machine Co., Janesville, Wis.
BLISS, E. W. CO., 19 Adams, B'klyn, New York. (See adv. index, end of book)

Gould & Eberhardt, Newark, N. J.
NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)

Ohl, Geo. A. & Co. (For Metal), 157 Oraton, Newark, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.
Perkins Machine Co. (Metal), Warren, Mass.

Ryerson, Jos. T. & Son (Hand & Power), 16th & Rockwell, Chicago, Ill.

Stoll, D. H. Co., Buffalo, N. Y.
Toledo Machine & Tool Co., Toledo, Ohio

Waterbury Farrel Foundry & Machine Co., Waterbury, Conn.

Shears (Clipping)

United Engineering & Foundry Co. (For Rolling Mills), Farmers' Bank bldg., Pittsburg, Pa.

Shears (Cotton Bale)

Draper Co., Hopedale, Mass.

Shears (Crocodile)

(See Shears, Alligator)

Shears (Doubling Plate & Sheet Mill)

Aetna Foundry & Machine Co., Warren, O.
Fischer Foundry & Machine Co., Ford City, Pa.

Lewis Foundry & Machine Co., Coraopolis, Pa.
Mesta Machine Co., Lewis blk., Pittsburg, Pa.

Philadelphia Roll & Machine Co., 23d & Wash., Phila., Pa.
Phillips & McLaren, Pittsburg, Pa.

Union Foundry & Machine Co., Pittsburg, Pa.
United Engineering & Foundry Co., Farmers' Bank bldg., Pittsburg, Pa.

Shears for Heavy Boiler Plates, Etc.

BLISS, E. W. CO., 19 Adams, B'lyn,
N. Y. (See adv. index, end of book)
BRAUN, J. G., 322 S. Paulina, Chica-
go, Ill., & 537 W 35th, New York. (See
adv. index, end of book)
Queen City Punch & Shear Co., 208 Law-
rence, Cincinnati, O.

Shears for Sheet Metal Work

BLISS, E. W. CO., 19 Adams, B'lyn,
N. Y. (See adv. index, end of book)
BRAUN, J. G., 322 S. Paulina, Chica-
go, Ill., & 537 W 35th, New York. (See
adv. index, end of book)
HEARTLEY MACHINE, VARIETY IRON &
Tool Works, Toledo, O. (See adv. in-
dex, end of book)
Queen City Punch & Shear Co., 208 Law-
rence, Cincinnati, O.
Stoll, D. H. Co., Buffalo, N. Y.

Shears (Gate or Guillotine)

Alliance Machine Co., Alliance, O.
Danville Foundry & Machine Co., Danville, Pa.
Fischer Foundry & Machine Co., Ford City, Pa.
Cincinnati Punch & Shear Co., 1416 Plum,
Cincinnati, O.
CLEVELAND PUNCH & SHEAR
Works Co., Cleveland, O. (See adv. index,
end of book)
Long & Allstatter Co. (Gate Shears, Motor,
Belt or Steam Driven & Double or Single
Geared), Hamilton, O.
United Engineering & Foundry Co., Farmers'
Bank bldg, Pittsburgh, Pa.
Williams, White & Co. (Gate Shears), Moline,
Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Shears (Grass)

(See Shears, Sheep, Grass, Etc.)

Shears (Hand)

Bertsch & Co., Cambridge City, Ind.
Kane & Roach, Syracuse, N. Y.
Lewthwaite, T. H., 413 E. 31st, New York
Marshall Son & Co., Boston, Mass.
NIAGARA MACHINE & TOOL
Works (For Sheet Metal), Buffalo, N. Y.
(See adv. index, end of book)
Novelty Iron Works (G. E. Davis, Prop.),
"Victor", Dubuque, Iowa
Pels, Henry & Co., 90 West, New York.
Perkins Machine Co. (Metal), Warren, Mass.
Smith & Egge Mfg. Co. ("Eureka" for Cutting
Wire, Rods & Strip Metal), Bridgeport,
Conn.
YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. index, end of book)

Shears (Hoof)

Champion Tool Co. ("Champion" Ball Bear-
ing), Meadville, Pa.

Shears (Horse Clipping)

Clauss Shear Co. ("Clauss"), Fremont, O.
Columbian Cutlery Co., Reading, Pa.
Smith, J. Bartou Co., N. Norris & Hope, Phila.,
Pa.
National Cutlery Co. ("National" Roaching),
Westmoreland & Boudinot, Phila., Pa.
Wiss, J. & Sons Co., Newark, N. J.

Shears (Hydraulic)

Alliance Machine Co., Alliance, O.
Bertsch & Co., Cambridge City, Ind.
Bethlehem Steel Co., South Bethlehem, Pa.
Birdsboro Steel Foundry & Machine Co.,
Birdsboro, Pa.
DUDGEON, RICHARD, 24 Columbia,
New York. (See adv. index, end of book)
Fischer Foundry & Machine Co., Ford City, Pa.
Maryland Steel Co., Sparrows Point, Baltimore,
Md.
Mesta Machine Co., Lewis blk., Pittsburgh, Pa.
Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO., Alliance, O.
(See adv. index, & branch offices, end of book)
Niles-Bement-Pond Co., 111 B'way, New York

Philadelphia Roll & Machine Co., S 23d &
Washington av., Phila., Pa.
Union Foundry & Machine Co., Pittsburgh, Pa.
United Engineering & Foundry Co. (for Tin,
Bar, Bloom, Slab, etc.), Farmers' Bank
bldg, Pittsburgh, Pa.
WATSON-STILLMAN CO., 50 Church,
New York. (See adv. index, end of book)
Wood, R. D. & Co. (Multiple Power Plate
Shear), 400 Chestnut, Philadelphia Pa.
Wood, Wm. H., Media, Pa.

Shears (Lever)

Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.
Birmingham Iron Foundry, Derby, Conn.
CARLIN'S, THOS. SONS CO. ("Alli-
gator"), 1610 River av., North Side, Pitts-
burg, Pa. (See adv. index, end of book)
Crane, W. W. Foundry & Machine Works, Au-
burn, N. Y.
Detroit Shear Co. ("Searight" Compound
Lever Mechanics), Detroit, Mich.
Edwards, C. D., Albert Lea, Minn.
Farrel Foundry & Machine Co., Ansonia,
Conn.

Fischer Foundry & Machine Co., Ford City, Pa.
Fulton Iron Works ("Detroit" Compound
Lever), Detroit, Mich.
Garrison, A. Foundry Co. ("Alligator" Heavy),
Pittsburg, Pa.

HEARTLEY MACHINE, VARIETY IRON &
Tool Works (Hand Lever), Toledo, O.
(See adv. index, end of book)

Lewis Foundry & Machine Co. (Rolling Mill),
Coraopolis, Pa.

Lewthwaite, T. H., 413 E 31st, New York
National Machinery Co., Tiffin, O.

New Doty Mfg. Co., Janesville, Wis.
NIAGARA MACHINE & TOOL
Works, Buffalo, N. Y. (See adv. index,
end of book)

Pawtucket Mfg. Co., Pawtucket, R. I.
Peck, Stow & Wilcox Co., Southington, Conn.
Philadelphia Roll & Machine Co. (For Scrap &
Old Boiler Shells, etc.), S 23d & Wash'n
av., Phila., Pa.

Pittsburg Iron Works, Westinghouse bldg.,
Pittsburg, Pa.

Rock River Machine Co. ("Badger") Janes-
ville, Wis.

Robinson, J. M. Mfg. Co. (Slitting), 3282
Spring Grove, Cincinnati, O.

Union Foundry & Machine Co., Pittsburgh, Pa.
United Engineering & Foundry Co. (For Roll-
ing Mills), Farmers' Bank bldg, Pittsburgh,
Pa.

Waterbury Farrel Foundry & Machine Co., Wa-
terbury, Conn.
Williams, White & Co., Moline, Ill.

YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. index, end of book)

*Shears (Muck Bar)

BLISS, E. W. CO., 19 Adams, B'lyn,
lyn, N. Y. (See adv. index, end of book)

Shears (Paper Box Makers')

BECK, CHAS. PAPER CO. (LTD.), 607
Chestnut, Phila., Pa. (See adv. index, end
of book)

Hinze, H., Tribune bldg., New York.

Jacques, Jno. & Son, Worcester, Mass.

KNOWLTON, M. D., CO., Rochester, N.
Y. (See adv. index, & branch offices, end of
book.)

Shears (Paper Hangers')

Clauss Shear Co. ("Clauss"), Fremont, O.
National Cutlery Co., Westmoreland & Bou-
dinot, Phila., Pa.

Sehatt & Morgan Cutlery Co., Titusville, Pa.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Wiss, J. & Sons Co., Newark, N. J.

Shears (Plate Splitting)

(See Shears, Splitting or Plate)

Shears (Power)

Alliance Machine Co., Alliance, O.
Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.

BLISS, E. W. CO., 19 Adams, Brooklyn,
N. Y. (See adv. index, end of book)

Cincinnati Punch & Shear Co., 1416 Plum,
Cincinnati, O.

Fischer Foundry & Machine Co., Ford City, Pa.
Gowanda Agricultural Works (For Cutting
Sheet Steel, 20-24 inch), Gowanda, N. Y.
HEARTLEY MACHINE, VARIETY IRON &
Tool Works, Toledo, O. (See adv. index,
end of book)

Mackintosh-Hemphill & Co., Pittsburgh, Pa.

MORGAN ENGINEERING CO., Alliance, O.
(See adv. index & branch offices, end of book)

New Doty Mfg. Co., Jamesville, Wis.

NIAGARA MACHINE & TOOL WKS,
Buffalo, N. Y. (See adv. index, end of book)

Niles-Bement-Pond Co., 111 B'way, New York

PRENTISS TOOL & SUPPLY CO., 115
Liberty, New York. (See adv. index, & branch
offices, end of book.)

Queen City Punch & Shear Co., Cincinnati, O.

Royersford Foundry & Machine Co., Royers-
ford, Pa.

Sellers, Wm. & Co. (Inc.), 1600 Hamilton,
Philadelphia, Pa.

Standard Machinery Co., Providence, R. I.

Stoll, D. H. Co., Buffalo, N. Y.

Sutton, C. E. Co., Toledo, O.

Torrington Mfg. Co., Torrington, Conn.

Toledo Machine & Tool Co., Toledo, O.

United Engineering & Foundry Co., Farmers'
Bank bldg, Pittsburgh, Pa.

Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

WATSON-STILLMAN CO., 50 Church,
New York. (See adv. index, end of book)

Williams, White & Co., Moline, Ill.

YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. index, end of book)

Shears (Pruning)

Carver Tool Works ("Carver's"), Spring Valley,
N. Y.

Clauss Shear Co. ("Clauss Buckeye"), Fre-
mont, O.

Columbian Cutlery Co., Reading, Pa.

Cronk & Carrier Mfg. Co., Elmira, N. Y.

Clyde Cutlery Co. (Hedge, etc.), Clyde, O.

Davy Spring Seat Co. (Duesler), Mohawk, N. Y.

Denison Mfg. Co. ("Denison"), Warren, O.

Elchelman, C. W., Rochester, N. Y.

Field Force Pump Co. ("The Niagara" &
"Henry"), Elmira, N. Y.

Henry, John T. Mfg. Co., Hamden, Conn.

Henry & Allen (Pruning Knives), Auburn, N. Y.

International Cutlery Co. ("New Buckeye"),
Fremont, O.

Kohler, F. E. & Co. (California Pattern), Can-
Little Giant Mfg. Co., Saugatuck, Mich. ton, O.

Nagley Mfg. Co. ("Diamond"), Lyons, N. Y.

Ney, V. L. Co., Canton, O.

Oshkosh Logging Tool Co., Oshkosh, Wis.

Rhodes Mfg. Co. ("Rhodes" Double Cut), Grand
Rapids, Mich.

Smith, Seymour & Son (Royal, Concord, Taylor,
Levin, Ideal, California, Rockdale &
Standard), Oakville, Conn.

Wiss, J. & Sons Co. (Solid Steel), Newark,
N. J.

Shears (Rotary)

Badger State Machine Co., Janesville, Wis.

Bethlehem Foundry & Machine Co., Front,
South Bethlehem, Pa.

BLISS, E. W. CO., 19 Adams, Brooklyn,
New York. (See adv. index, end of book)

Detrich & Harvey Mach. Co. (Slitting), Balti-
more, Md.

Ham, L. M. & Co., 152 Portland, Boston, Mass.

HEARTLEY MACHINE, VARIETY IRON &
Tool Works, Toledo, O. (See adv. index,
end of book)

Hilles & Jones Co., Wilmington, Del.

Lennox Machine Co. (Beveling & Splitting),
Marshalltown, Ia.

Michigan Machinery Mfg. Co. ("Michigan"),
Ypsilanti, Mich.

Morgan Construction Co., Worcester, Mass.

Newbold, R. S. & Son Co., Norristown, Pa.

NIAGARA MACHINE & TOOL WORKS,
Buffalo, N. Y. (See adv. index, end of
book)

Ohl, Geo. A. & Co. (Slitting), 157 Oraton,
Newark, N. J.

Peck, Stow & Wilcox Co., Southington, Conn.

Perkins Machine Co., Warren, Mass.

Rock River Machine Co. ("Badger"), Janes-
ville, Wis.

Ryerson, Jos. T. & Son ("Lennox"), 16th &
Rockwell, Chicago, Ill.

Standard Machinery Co., Providence, R. I.

Stoll, D. H. Co., Buffalo, N. Y.

Sutton, C. E. Co., Toledo, O.

Toledo Machine & Tool Co., Toledo, O.

Union Foundry & Machine Co., Pittsburg, Pa.
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.
Whiting, Geo. Co., 156 W North av, Chicago,
Ill.

Shears (Rotary Circle)

BLISS, E. W. CO., 19 Adams, B'lyn,
N. Y. (See adv. Index, end of book)
Perkins Machine Co., Warren, Mass.
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

Shears (Rotary, Pipe Cutting)

Fischer Foundry & Machine Co., Ford City, Pa.
Newbold, R. S. & Son Co., Norristown, Pa.
Ryerson, Jos. T. & Son ("Leunox" Rotary
Throat), 16th & Rockwell, Chicago, Ill.
United Engineering & Foundry Co., Farmers'
Bank bldg, Pittsburg, Pa.

Shears (Rotary Slitting)

BLISS, E. W. CO., 19 Adams, Brooklyn,
N. Y. (See adv. Index, end of book)
Detrick & Harvey Mach. Co., Baltimore, Md.
Lenox Machine Co., Marshalltown, Iowa
NIAGARA MACHINE & TOOL CO., Buf-
falo, N. Y. (See adv. Index, end of book)
Ohl, Geo. A. & Co., 157 Oraton, Newark, N. J.
Standard Machinery Co., Providence, R. I.
Toledo Machine & Tool Co., Toledo, O.
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.
Waterbury Machine Co., Waterbury, Conn.

Shears (Scrap)

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. Index, end of book)
CARLIN'S THOS. SONS CO., 1610
River av., North Side, Pittsburg, Pa. (See
adv. Index, end of book)
Fischer Foundry & Machine Co., Ford City, Pa.
United Engineering & Foundry Co., Farmers'
Bank bldg, Pittsburg, Pa.

Shears (Sheep, Grass & Hedge)

Columbian Cutlery Co., Reading, Pa.
Delaware Shear & Mfg. Co., Wilmington, Del.
Dunn Edge Tool Co., Oakland, Me.
Gay, Geo. E. ("Uncle Sam"), Augusta, Me.
Gowanda Agricultural Works (Dog or Sheep),
Gowanda, N. Y.
Kelser Mfg. Co., Reading, Pa.
Smith, J. Barton Co., Norris & Hope, Phila.,
Pa.
Taylor, Geo. P. & Co. ("Boston" Grass Shears),
Clinton, Mass.

Shears (Slitting)

Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge City, Ind.
Birdsboro Steel Foundry & Machine Co.,
Birdsboro, Pa.
BLISS, E. W. CO., 19 Adams, Brooklyn,
N. Y. (See adv. Index, end of book)
CLEVELAND PUNCH & SHEAR WORKS
Co., 1306 E 40th, Cleveland, O. (See adv.
Index, end of book)
Detrick & Harvey Machine Co. (Rotary), Balti-
more, Md.
DUDGEON, RICHARD (Hydraulic),
24 Columbia, New York. (See adv. Index,
end of book)
Fischer Foundry & Machine Co., Ford City, Pa.
HEARTLEY MACHINE, VARIETY IRON &
Tool Works, Toledo, O. (See adv. Index,
end of book)
Keene, Geo. C. & Co., Cincinnati, O.
Kladder, J. F. Mfg. Co. ("Little Blacksmith"),
Burlington, Vt.
Lewis Foundry & Machine Co., Cornopolis, Pa.
Mersick, C. S. & Co. (Compound Lever &
Pinion), New Haven, Conn.
Michigan Machinery Mfg. Co. (Gang Slitters),
Ypsilanti, Mich.
NIAGARA MACHINE & TOOL
Works (Hand Slitting), Buffalo, N. Y. (See
adv. Index, end of book)
Ohl, Geo. A. & Co. (Also Rotary Slitting), 157
Oraton, Newark, N. J.
Pawtucket Mfg. Co., (52-inch), Pawtucket, R. I.
Perkins Machine Co., Warren, Mass.
Rock River Machine Co. ("Badger"), Janesville,
Wis.
St. Louis Machine Tool Co., St. Louis, Mo.

Star Forge Co. ("Star" Hand Power), Buffalo,
Stoll, D. H. Co., Buffalo, N. Y. N. Y.
Sutton, C. E. Co., Toledo, O.
Unlou Fdry. & Mach. Co., W Carson, Pitts-
burg, Pa.
United Engineering & Foundry Co., Farmers'
Bank bldg, Pittsburg, Pa.
Whelan, D. J. (Est. of) (Rotary), Troy, N. Y.
Whitlug, Geo. Co., 156 W North av, Chicago,
Ill.

Shears (Splitting or Plate)

Alliance Machine Co., Alliance, O.
Bertsch & Co. ("Universal"), Cambridge City,
Ind.
CLEVELAND PUNCH & SHEAR WORKS
Co., Cleveland, O. (See adv. Index, end of
book)
Fischer Foundry & Machine Co., Ford City, Pa.
Long & Allstatter Co. (Steam, Belt or Motor
Driven), Hamilton, O.
New Doty Mfg. Co. (Hand & Power), Janesville,
Wis.
NIAGARA MACHINE & TOOL WORKS,
Buffalo, N. Y. (See adv. Index, end of book)
Rock River Machine Co. ("Badger," Steel Slit-
ting, Hand or Power), Janesville, Wis.
Ryerson, Jos. T. & Son ("Leunox" Rotary),
16th & Rockwell, Chicago, Ill.
United Engineering & Foundry Co., Farmers'
Bank bldg., Pittsburg, Pa.
Williams, White & Co., Moline, Ill.
Wood, R. D. & Co. (Hydraulic), 400 Chestnut,
Philadelphia, Pa.

Shears (Squaring)

Aetna Foundry & Machine Co. (For Tin &
Sheet Mills), Warren, O.
American Roll & Foundry Co. (For Sheet &
Tin Plate), Canton, O.
Ams, Max Machine Co. (Can Makers, etc.),
Mount Vernon, N. Y.
Ayars Machine Co. (For Can Making, etc.),
Salem, N. J.
Badger State Machine Co., Janesville, Wis.
Bertsch & Co., Cambridge, Ind.
BLISS, E. W. CO., 19 Adams, Brooklyn,
N. Y. (See adv. Index, end of book)
Excelesior Tool Machine Co. (Exclusive"
Double Geared), East St. Louis, Ill.
Fischer Foundry & Machine Co., Ford City, Pa.
HEARTLEY MACHINE, VARIETY IRON
& Tool Works, Toledo, O. (See adv. Index,
end of book)
Hibbard, Wm. H. Mfg. Co., 79 Washington,
Brooklyn, N. Y.
Johnson, Israel H., Jr., Co., Phila., Pa.
Lay & Nawrath Co. (Foot & Belt Power) New-
ark, N. J.
Lewis Foundry & Machine Co., Cornopolis, Pa.
Mesta Machine Co., Lewis blk, Pittsburg, Pa.
Michigan Machinery Mfg. Co. ("Michigan"),
Ypsilanti, Mich.
MORGAN ENGINEERING CO., Al-
liance, O. (See adv. Index & branch of-
fice, end of book)
New Doty Mfg. Co., Janesville, Wis.
NIAGARA MACHINE & TOOL WKS.
Buffalo, N. Y. (See adv. Index, end of
book)
NORTH AMERICAN METALINE CO.,
4 West av., Long Island City, N. Y. (See
adv. Index, end of book)
Ohl, Geo. A. & Co. (Heavy & Light), 157
Oraton, Newark, N. J.
Peck, Stow & Wilcox Co. (For Sheet Metal),
Southington, Conn.
Perkins Machine Co. (Metal Squaring & Circle),
Warrent, Mass.
Phillips & McLaren, Pittsburg, Pa.
Stoll, D. H. Co., Buffalo, N. Y.
Toledo Machine & Tool Co., Toledo, O.
Union Foundry & Machine Co., W Carson st.
Pittsburg, Pa.
United Engineering & Foundry Co. (For Tin
Plate & Rolling Mills), Farmers' Bank
bldg, Pittsburg, Pa.
Vulcan Foundry & Machine Co., New Castle,
Pa.
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.
Whiting, Geo. Co., 156 W. North av., Chi-
cago, Ill.

YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. Index, end of book)

Shears (Tobacco)

Black, John B. ("Brady's"), Chester, Pa.
Nagley Mfg. Co. (Cutting Tobacco in the
Field), Lyons, N. Y.

Shears (Vertical)

Lewis Foundry & Machine Co., Cornopolis, Pa.
National Machinery Co., Tiffin, O.
Union Foundry & Machine Co., Pittsburg, Pa.
United Engineering & Foundry Co. (For Roll-
ing Mills), Pittsburg, Pa.

Shears (Wire Rod, Etc.)

Smith & Egge Mfg. Co. ("Enreka"), Bridge-
port, Conn., & 62 Reade, New York

Shears & Punches (Combined)

Armstrong-Blum Mfg. Co. ("Marvel," Hand or
Lever), 104 N. Francisco, Chicago, Ill.
Badger State Machine Co., Janesville, Wis.
Hibbard, Wm. H. Mfg. Co., 79 Washington,
Brooklyn, N. Y.
Kelby Mfg. Co., Cleveland, O.
Sutton, C. E. Co., Toledo, O.
YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. Index, end of book)

Shears & Scissors

Acme Shear Co., Bridgeport, Conn.
American Shear & Knife Co. (Shears), Hotch-
kissville, Conn.
Allentown Reed Harness & Mill Supply Co.,
Allentown, Pa.
Atlas Shear Co., Bridgeport, Conn.
Bens, Wm. Co. (Silver Mounted), Providence,
R. I.
Berridge Shear Co. (High Grade Steel Laid),
Sturgis, Mich.
Bridgeport Hdw. Mfg. Co. (Button Hole, Kin-
dergarten, Pocket), Bridgeport, Conn.
Case, W. R. & Son, Bradford, Pa.
Clayton Bros., Bristol, Conn.
Clausen Shear Co., Fremont, O.
Coddling & Hellborn Co. (Silver Mounted), North
Attleboro, Mass.
Davis Automatic Shear Co., 41 Maiden lane,
New York
Delaware Shears Mfg. Co., Wilmington, Del.
Diamond Shear Co., Wilmington, Del.
Foster, Theo. W. & Bro. Co. (Silver), Provi-
dence, R. I.
Heinrich's, R. Sons Co. (Pocket), Newark, N. J.
International Cutlery Co. (Shears), Fremont, O.
Kustor, Adolph & Bros., 109 Duane, New York.
Mallinson, J. Shear Co., West Cornwall, Conn.
Mount Pleasant Tool Co. (Pocket), Mount Pleas-
ant, Pa.
National Cutlery Co. (Buttonhole), Westmore-
land & Boudinot, Philadelphia, Pa.
Robeson Cutlery Co., Rochester, N. Y.
Schatt & Morgan Cutlery Co. (Buttonhole),
Titusville, Pa.
Spaulding, D. S. (Silver Mounted), Mansfield,
Mass.
Standard Mfg. Co. (Toe-Nail), Rochester, N. Y.
Wallace, R. & Sons' Mfg. Co. (Buttonhole, Em-
brodery, Folding, Ladies', Manicure, Pocket),
Wallingford, Conn.
Waterville Cutlery Co. ("Pabcock" Patent
Shears), Waterville, Conn.
Wiebush & Hilger (Bent, Buttonhole, Embroid-
ery, Pocket), 106 Lafayette, New York
Wiss, J. Sons Co. (Barbers', Buttonhole, Pocket),
Newark, N. J.

*Sheave Bushing (Tackle Block)

NORTH AMERICAN METALINE CO.,
4 West Av., Long Island City, N. Y. (See
adv. Index, end of book)

Sheave or Pulley Filling (Rubber)

Goodrich, B. F. Co., Akron, O.
Morgan & Wright (Inc.), Detroit, Mich.

Sheave Wheels & Frames

Lanz, M. & Sons, Carson & 29th, Pittsburg,
Pa.

Sheaves (Ball Bearing Show Case)

Johnston & Sharpe Mfg. Co., Ottumwa, Ia.

Sheaves (Door)

Brewer Bros. (Anti-Friction Run), 614 Filbert,
Phila., Pa.
Corbin Cabinet Lock Co. (Cast Brass Sliding
Door Sheave & Rail), New Britain, Conn.

Grant Pulley & Hardware Co. ("Grant" Noiseless), 3 W. 29th, New York.
 Nicol & Co., 66 N. Jefferson, Chicago, Ill.
 Peck, Stow & Wilcox Co., Southington, Conn.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Sargent & Co., New Haven, Conn.
 Stowell Mfg. & Foundry Co., S. Milwaukee, Wis.
 Wrightsville Hardware Co. (Also Sliding Door), Wrightsville, Pa.

*Sheaves (Gravity)

CARLIN'S, THOS. SONS CO., 1610
 River av., North Side, Pittsburg, Pa. (See adv. index, end of book)

Sheaves (Pulley)

Piqua Handle & Mfg. Co. (Wooden), Piqua, O.

Sheaves (Shutter)

Peck, Stow & Wilcox Co., Southington, Conn.
 Reading Hardware Co., Reading, Pa.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 Sargent & Co., New Haven, Conn.

*Sheaves (Special Patented)

G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)

Sheaves (Tackle Block)

(See also Blocks, Tackle)

Boston & Lockport Block Co., Boston, Mass.
CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end of book)

Cleveland Block Co., 163 River, Cleveland, O.
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y.
 (See adv. index & branch offices, end of book)
 Dubuar, J. A. Mfg. Co., Northville, Mich.
G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)
 Laughlin, Thos. Co., Portland Me.
 Marine Hardware & Equipment Co., South Portland, Me.

OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
TRENTON IRON CO., Trenton, N. J.
 & 30 Church, New York. (See adv. index, end of book)

Union Hardware Co., Torrington, Conn.
 Wilcox, Crittenden & Co. (Ball Bearings, etc.), Middletown, Conn.

Sheaves (Wire & Manila Rope)

(See also Machinery, Power Transmitting)

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)
 Bates Machine Co., Joliet, Ill.
 Bellwood Mfg. Co. (Rope), Bellwood, Pa.

Boston & Lockport Block Co. (Rope), 160 Commercial, Boston, Mass.

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.

CALDWELL, W. E. CO., Brook & D,
 Louisville, Ky. See adv. index, end of book)
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.

Crawford & McCrimmon Co. (Wrought Iron Spoke, Rope Sheaves Only), Brazil, Ind.
 Cresson, Geo. V. Co., Allegheny av., W of 17th, Phila., Pa.

Davis, R. M., Iron Works Co., 8th & Larimer, Denver, Colo.

DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y.
 (See adv. index & branch offices, end of book)

Dodge Mfg. Co., Mishawaka, Ind.
 Exeter Machine Works, Pittston, Pa.

Falls Rivet & Machine Co., Cayahoga Falls, O.
 Garland, M. Co., Bay City, Mich.
 Great Western Mfg. Co., Leavenworth, Kan.

Gustafson Mfg. Co., Chattanooga, Tenn.
G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)

Helmick Foundry & Machine Co. (Chilled Curve Wire Rope Only), Fairmont, W. Va.

Herron-Webb Engineering Co., Monongahela, Pa.
 Hill Clutch Co., ft. 58th, N. W., Cleveland, O.
 Howard Iron Works, Buffalo, N. Y.

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

Jones, W. A. Foundry & Machine Co., 143 W North av., Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.
 Lake Shore Engine Works, Marquette, Mich.
 Link Belt Co., W. 39th & Stewart av., Chicago, Ill., & 299 B'way, New York

MACOMBER & WHYTE ROPE CO.,
 266 S. Clinton, Chicago, Ill., & 126 Centre, New York. (See adv. index, end of book)

Marselles Mfg. Co., Marselles, Ill.

MEAD-MORRISON MFG. CO., Cambridge,
 Mass. & 11 B'way, New York. (See adv. index & branch offices, end of book)

Medart Patent Pulley Co., 3500 De Kalb av., St. Louis, Mo.

Minne & Smelter Supply Co., Denver, Colo., & 43 B'way, New York

MINNEAPOLIS STEEL & MACHINE-
 ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Nelsonville Foundry & Machine Co., Nelsonville, O.

Nordyke & Marmon Co., Indianapolis, Ind.

OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Portland Co. (Rope & Power Transmitting), Portland, Me.

Robinson Machine Co., Monongahela, Pa.

Scottdale Foundry & Machine Co., Scottdale, Pa.

Shriner, T. & Co., Harrison, N. J.

Skilkin & Richards Mfg. Co. (Rope), 127 Fulton, Chicago, Ill.

Stevens-Adamson Mfg. Co., Aurora, Ill.

Stine, J. C. Co. (Gravity Plane), Tyrone, Pa.

Stine, S. B., Osceola Mills, Pa.

Ferry & Tench Co. (Inc.), Lexington av & 131st, New York

TRENTON IRON CO., Trenton, N. J.
 & 30 Church, New York. (See adv. index, end of book)

Union Foundry & Machine Co., Pittsburg, Pa.

Union Iron Works, Wilkes-Barre, Pa.

WEBSTER MFG. CO., 1075 W. 15th,
 Chicago, Ill., & 88 Reade, New York. (See adv. index & branch offices, end of book)

WELLER MFG. CO., 124 E. North av.,
 Chicago, Ill. (See adv. index, end of book)

Western Block Co. (Rope), Lockport, N. Y.

Wood's, T. B. Sons Co. (Manilla Rope), Chambersburg, Pa.

*Sheaves with Graphite Bronze or Metaline Bronze

DOBBIE FOUNDRY & MACHINE CO.,
 Main Office & Works, Niagara Falls, N. Y.
 (See adv. index & branch offices, end of book)

Sheaves (Wood Split)

(See Pulleys, Wood Split)

Shedders (Fodder)

Appleton Mfg. Co., Batavia, Ill.

Dick, Jos. Agricultural Works, Canton, O.

Keystone Mfg. Co., Sterling, Ill.

Silver Mfg. Co. ("New Ohio"), Salem, O.

Sheet Brass & Copper

(See Copper & Brass Sheet)

Sheet Iron (Cold Rolled)

Youngstown Sheet & Tube Co., Youngstown, O.

Sheet Metal Borders & Friezes

Broschart & Braun, 601 W 130th, New York

BURTON, W. J. CO., 161 W. Con-
 gress, Detroit, Mich. (See adv. index, end of book)

EDWARDS MFG. CO., 545-565 Eg-
 gleston av., Cincinnati, O. (See adv. index, end of book)

Frard, M. J. & Co., 112 Arch, Camden, N. J.

FRIEDLEY-VOSHARDT CO. (Inc.), 194
 Mather, Chicago, Ill. (See adv. index, end of book)

Gerock Bros. Mfg. Co., St. Louis, Mo.

Hergert, Theo. E., 422 E 53rd, New York

Kelley, Wm. J., 448 Adelphi, Brooklyn, N. Y.

Miller & Doing, 83 Wash'n. Brooklyn, N. Y.

MILWAUKEE CORRUGATING CO.,
 Milwaukee, Wis. (See adv. index & branch offices, end of book)

MULLINS, W. H. CO., 341 Franklin,
 Salem, O. (See adv. index, end of book)

PRUDEN, C. D. CO., Warner, Bayard
 & Dock, Baltimore, Md. (See adv. index, end of book)

Thoresen, Wm., 419 W North, Chicago, Ill.

Sheet Metal Goods Mfrs.

(See also Stamping, Sheet Metal)

EDWARDS MFG. CO. (To Order)
 545-565 Eggleston ave., Cincinnati, O. (See adv. index, end of book)

Jenkinson, R. C. & Co. (By Automatic Machines, Newark, N. J.)

Knobourn Co., 27 E 22d, New York

Parker, Jno. L. Co. (Seamless), Worcester, Mass.

Special Machinery Co., Bridgeport, Conn.

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FRIEDLEY-VOSHARDT CO. (Inc.), 194 Mather, Chicago, Ill. (See adv. index, end of book)

Gerock Bros. Mfg. Co., St. Louis, Mo.
Hergert, Theo. E., 422 E 53d, New York
Kelley, Wm. J., 448 Adelphi, Brooklyn, N. Y.
Mesker Bros., 421 S. 6th, St. Louis, Mo.
Miller & Doring, 83 Wash'n, Brooklyn, N. Y.
MULLINS, W. H. CO., 341 Franklin, Salem, O. (See adv. index, end of book)

*Sheet Metal & Strip Stock Straighteners & Cutters (Automatic)

SHUSTER, F. B. CO., New Haven, Conn. (See adv. index, end of book)

Sheet Metals (Plated)

American Nickeloid Mfg. Co. (Nickelzinc, Nickel, Brass, etc.), Peru, Ill.
National Sheet Metal Co. (Nickel, Brass, Copper & Bronze, Tin & Zinc), Peru, Ill.

*Sheet (Nickel)

DRIVER-HARRIS WIRE CO. (Pure Malleable), Harrison, N. J. (See adv. index, end of book)

Sheets (Aluminum)

Aluminum Co. of America, Pittsburg, Pa.
Electric Smelting & Aluminum Co., Lockport, N. Y.
Scovill Mfg. Co., Waterbury, Conn.

Sheets (German Silver)

Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co., Bristol, Conn.
Chicago Brass Co., Kenosha, Wis.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
HUNGERFORD, U. T. BRASS & COPPER CO. (Sheets or Rolls), 497 Pearl, New York
MERCHANT & EVANS CO. (Inc.) (Sheets & Rolls), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Pilling Brass Co., Waterbury, Conn.
Riverside Metal Co., Riverside, N. J.
Scovill Mfg. Co., Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Waterbury Brass Co., Waterbury, Conn.

Sheets (Manganese)

American Manganese Bronze Co., 99 John, New York

Shelf Fixtures (Adjustable)

Van Doorn Co. (Polished Brass, Nickel Plated, etc.), Quincy, Ill.

Shellac Gum

Berry Bros., Limited (Bleached), Main Office & Factory, Detroit, Mich.
Felgel, M. & Bro. (Bleached, Varnish, etc.), 147 Wooster, New York
Hoople & Nichols, 250 Front, New York
Marx & Rawolle (Orange & Bleached), 100 William, New York
New York Shellac Co., 229 Pearl, New York
Rogers & Pyatt (Orange & Bleached), 4 Jones, New York
Scheel, Wm. H., 159 Maiden La., New York
Zinser, Wm. & Co. (Bleached & Refined), 197 William, New York

Shellers (Corn)

Adams, W. J. (Hand), Joliet, Ill.
American Bell & Foundry Co., Northville, Mich.
Ames Plow Co., Quincy Hall, Boston, Mass.
Appleton Mfg. Co., Batavia, Ill.
BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)
Barnard & Leas Mfg. Co. ("Victor"), Moline, Ill.
Batavia Windmill Co., Batavia, Ill.
Becher & Taylor Ag'l Tool Co., Chicopee Falls, Mass.
Billups, Son & Co., Norfolk, Va.

Brinley-Hardy Co. ("Red Chief"), Louisville, Ky.

Bristol & Gale Co., 110 Wash'n boul, Chicago, Ill.
Brown, Geo. W. & Co., Galesburg, Ill.
Buch's, A. Sons Co., Elizabethtown, Pa.

Butler Co., Butler, Ind.
Butterfield & Co., Derby Line, Vt.
Challenge Co., Batavia, Ill.

Deats, Hiram, Jr., Pittston, N. J.
Deere & Mansur Co. (Power & Hand), Moline, Ill.
Dickey Mfg. Co., Racine, Wis.

Donaldson Bros., Mount Clemens, Mich.
Dunham, J. W. & Son, Berea, O.
Eagle Machine Co., Lancaster, O.

Elgin Wind, Power & Pump Co., Elgin, Ill.
Ellis Keystone Agricultural Works ("Cannon" Sheller & Cleaner, with Bagger, etc.; also "Pottstown" & Double Sheller), Pottstown, Pa.

Farquhar, A. B. Co., York, Pa.
Foss Mfg. Co., Springfield, O.
Freeman, S. & Sons Mfg. Co. (Hand, etc.), Racine, Wis.

Genesee Valley Mfg. Co. (Hand & Power), Mount Morris, N. Y.

Great Western Mfg. Co., Leavenworth, Kan.
Grier, Geo. S., Milford, Del.

Halsh, Jacob Co., De Kalb, Ill.
Heath Foundry & Mfg. Co., Plymouth, O.
Hench & Dromgold Co., Inc., York, Pa.

Hocking Valley Mfg. Co., Lancaster, O.
Howell, R. R. & Co., Minneapolis, Minn.
Hutchison, Jno. Mfg. Co., Jackson, Mich.

Huntley Mfg. Co., Silver Creek, N. Y.
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Joliet Mfg. Co., Joliet, Ill.
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Kingsland Mfg. Co., St. Louis, Mo.
Klotz Machine Co., Sandusky, O.
Lehr Agricultural Co., Fremont, O.

Litchfield Mfg. Co., Waterloo, Iowa
Luthy & Co., Peoria, Ill.
McGrath, R. H. (For Warehouse), Lafayette, Ind.

McSherry Mfg. Co., Middletown, O.
Mann, F. W. Co. (Ball Bearing), Milford, Mass.
Marselles Mfg. Co. ("Cyclone" Spring, Power & Hand), Marselles, Ill.

Messinger Mfg. Co. (Power & Hand), Tatamy, Pa.
Minneapolis Threshing Machine Co., Minneapolis, Minn.

Mountville Mfg. Co., Mountville, Pa.
Munnsville Plow Co. ("Old Burrall"), Munnsville, N. Y.

New Winona Mfg. Co. ("Crescent A. A."), Self-Feed Sheller with Cob-Stacking Elevator, Winona, Minn.
Nordyke & Marmon Co. (Hand & Power), Indianapolis, Ind.

Noye Mfg. Co., Buffalo, N. Y.
Ohio Rake Co., Dayton, O.
Patch, A. H. ("Black Hawk" Hand), Clarks-Penna. Electric Co., Marletta, Pa.

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Reeves & Co. (Cylinder), Columbus, Ind.

Rock River Machine Co. (Hand), Janesville, Wis.
Rogers Iron Co., Springfield, O.
Salem Iron Works, Salem, N. C.

Sandwich Mfg. Co. (Horse & Steam Power & Centrifugal), Sandwich, Ill.
Schrleber & Conchar Mfg. Co., Dubuque, Ia.

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Smalley Mfg. Co., Manitowoc, Wis.
Southern Foundry & Machine Works, Fredericksburg, Va.

Spangler Mfg. Co., York, Pa.
SPROUT, WALDRON & CO., ("Monarch"), Muncy, Pa. (See adv. index, end of book)

Standard Harrow Co., Utica, N. Y.
Star Mfg. Co., Carpentersville, Ill.

Stevens, A. W. Co. (Power), Marletta, Wis.
Stevens Mfg. Co., Joliet, Ill.
Stover Mfg. Co., Freeport, Ill.

Streeter, Hiram R., Grand Ledge, Mich.
Tait, F. B. Mfg. Co., Decatur, Ill.
Tiffin Wagon Co., Tiffin, O.

Union Iron Works ("Western" Power), Decatur, Ill.
U. S. Engine & Pump Co., Batavia, Ill.

White, S. R. & Bro., Norfolk, Va.
Whitehurst, R. W. Co., Norfolk, Va.
Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

Whitman & Barnes Mfg. Co., Akron, O.

*Shells (Brass)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Shells (Coke Oven)

PETROLEUM IRON WORKS CO., Sharon, Pa., & Farmers' Bank bldg., Pittsburg, Pa. (See adv. index, end of book)

Shells (Roll)

Standard Steel Works Co. ("Standard" Solid Weldless), Harrison bldg., Phila., Pa.

Shells (Rolled Chrome Steel)

Chrome Steel Works, Chrome, N. Y.

*Shells (Seamless Steel)

(See also Cylinders & Shells, Seamless Pressed Steel)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Shells (Straight & Taper Bore)

Railway Steel Spring Co. (Weldless Forged & Rolled Steel), 30 Church, New York

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Warren, J. D. Mfg. Co., Masonic Temple, Chicago, Ill.

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New Britain Machine Co., New Britain, Conn.

Shelving (Steel)

BERGER MFG. CO., THE (Plain & Roller), Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)

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GENERAL FIREPROOFING CO., Youngstown, O. (See adv. index & branch offices, end of book)

LYON METALLIC MFG. CO. (For All Purposes), Aurora, Ill. (See adv. index, end of book)

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Avery Stamping Co. ("Never-Break"), Cleveland, O.

Shims (Pole)

Lanz, M. & Sons, Carson & 29th, Pittsburg, Pa.

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AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)

*Shingle Holders (Steel)

TALOR, JAS. L. MFG. CO., Bloomfield, N. J. (See adv. index, end of book)

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Acme White Lead & Color Works, Detroit, Mich.

Adams & Elting Co. (Asbestine), 155 W Washington, Chicago, Ill.
Berry Bros. (Ltd.) (Singletint), Main Office & Factory, Detroit, Mich.

Buffalo Enamel & Stain Co., D. S. Morgan Bldg., Buffalo, N. Y.
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Forest City Paint & Varnish Co., Cleveland, O.

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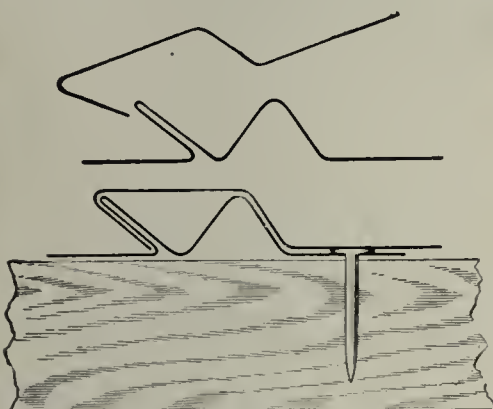
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 Parker, Preston & Co. (Inc.) (Waterproof & Odorless), Norwalk, Conn.
 Price Fireproofing Co. (Fireproofing Creosote), Poughkeepsie, N. Y.
 Sberwin-Williams Co., Cleveland, O.
 Sprittine Chemical Co. (Sprittine Creosote), Wilmington, Del.
 Sonneborn, L. Sons (Inc.) ("Shingleedges"), 262 Pearl, New York
 Union Roofing & Mfg. Co. ("Petrosote" Preservative), St. Paul, Minn.
 Vilas Bros. ("Impervious"), 227 5th av, Chicago, Ill.
 Weatherine Paint Works, 139 Steuben, Brooklyn, N. Y.
 Wilhelm, A. Co. ("Fernoleum"), Reading, Pa.

*Shingle Stains (Creosote)

CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av, Chicago, Ill. (See adv. index & branch offices, end of book)

Shingles (Asbestos)

Asbestos Shingle, Slate & Sheathing Co. ("Century"), Ambler, Pa.
 Keasbey & Mattison Co. ("Century"), Ambler, Pa.

Shingles (Asphalt)

Winthrop Asphalt Shingle Co., Women's Temple, Chicago, Ill.

Shingles (California Redwood)

(See also Lumber Manufacturers)

Loverin, J. G. (Plain & Fancy), Eureka, Cal.
 Minneapolis Cedar & Lumber Co. (Red and White Cedar), Lumber Ex., Minneapolis, Minn.

Shingles (Cedar)

Seattle Cedar Lbr. Mfg. Co. ("Maltese Cross" Brand), Seattle, Wash.
 Waccamaw Lumber Co. (Machine Dressed), Bolton, N. C.

Shingles (Cement)

(See Roofing Tile, Cement)

*Shingles (Cluster)

EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O. (See adv. index, end of book)

Shingles (Cypress)

(See also Lumber Manufacturers)

Cypress Lumber Co., 88 Broad, Boston, Mass., & Apalachicola, Fla.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)

*Shingles (Flat Terra Cotta)

LUDOWICI-CELADON CO., 509 Chamber of Commerce, Chicago, Ill. (See adv. index & branch offices, end of book)

Shingles (Metallic)

(See also Roofing Tile, Metallic)

BERGER MFG. CO., THE, Main Office & Works: Canton, O. (See adv. index & branch offices, end of book)
 Burriss, John T. & Son, Anderson, S. C.

BURTON, W. J. CO., ("East Lake"), 161 W Congress, Detroit, Mich. (See adv. index, end of book)

Butler Mfg. Co., Kansas City, Mo.

CANTON MFG. CO., ("Standard"), Canton, O. (See adv. index, end of book)
 Chattanooga Roofing & Foundry Co. ("Century"), Chattanooga, Tenn.

Cincinnati Stamping Co. ("Regan's"), 24 W McMicker av, Cincinnati, O.
 Cortright Metal Roofing Co., 50 N. 23d, Philadelphia, Pa.

Crittenden Roofing & Mfg. Co. (Dealers), 918 S. 4th, Minneapolis, Minn.

EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)

Eller Mfg. Co. ("Champion" Lock Joint), Canton, O.
 Indianapolis Corrugating Co., Indianapolis, Ind.
 Kanneberg Roofing & Ceiling Co., Canton, O.
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

Meurer Bros. Co. ("Unique"), Brooklyn, N. Y.
 Miller & Doing, 83 Wash'n, Brooklyn, N. Y.

MILWAUKEE ARTISTIC METAL

Celling Co. ("Titelock"), Milwaukee, Wis. (See adv. index & branch offices, end of book)

MILWAUKEE CORRUGATING CO.

("Titelock"), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Moeschl-Edwards Corrugating Co. ("Just-Right," "Magnolia"), Covington, Ky.

Montross Metal Shingle Co., Camden, N. J.

MULLINS, W. H. CO., 341 Franklin, Salem, O. (See adv. index, end of book)

NATIONAL SHEET METAL ROOFING

Co. ("Walter's"), 339 Grand, Jersey City, N. J. (See adv. index, end of book)

Penn Metal Ceiling & Roofing Co. ("The Sagerdorf"), 23d & Hamilton, Phila., Pa.

Ringle, Jacob & Son ("The Hamsley"), 85 Newark av, Jersey City, N. J.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Tiffin Art Metal Co. ("Neverleak"), Tiffin, O.

VALLEY CORNICE & SLATE CO. (Ltd.), 314-318 N Hamilton, Saginaw, W S. Mich. (See adv. index, end of book)

Watson, Jas. H. Co. (Inc.) ("Watson"), Bradley, Ill.

Wheeling Corrugating Co. (Tin or Galvanized), Wheeling, W. Va.

Wheeling Metal & Mfg. Co., Wheeling, W. Va.

Willis Mfg. Co., Galesburg, Ill.

Shingles (Red Cedar)

(See Lumber Manufacturers, California, Washington & Oregon)

Shingling Kits

Coldwater Specialty Mfg. Co. ("Stowe's"), Coldwater, Mich.

Ship Builders

(See also Dry Docks & Marine Railways)

(Star *) Indicates those who build Iron & Steel; Section Mark (\$) those who build Wooden; Dagger (†) those who build Iron, Steel & Wooden)

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*Atlantic Works (Steam Yachts), 70 Border, E. B., Boston, Mass.

*Barrett, John & Son (Tugs, River Vessels, Scows, etc.), Chamber of Commerce bldg, Cincinnati, O.

*Bath Iron Works (Ltd.), Bath, Me.

*Bates, J. B. & Co., 22d & Sangamon, Chicago, Ill.

*Bayles, J. M. & Son, Port Jefferson, N. Y.

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*Burice Dry Dock Co., Port Richmond, Borough of Richmond, N. Y.

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*Calvin Co., Garden Island, Ont.

*Camden Yacht Building & Ry Co. (Yachts, etc.), Camden, Me.

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*Carrier, Laine & Co., Levis, Que.

*Chicago Shipbuilding Co., 101st & Calumet River, Chicago, Ill.

*Cobb Bros. (Tugs, River Vessels, Scows, etc.) Brewer, Me.

*Cobb, Butler & Co., Rockland, Me.

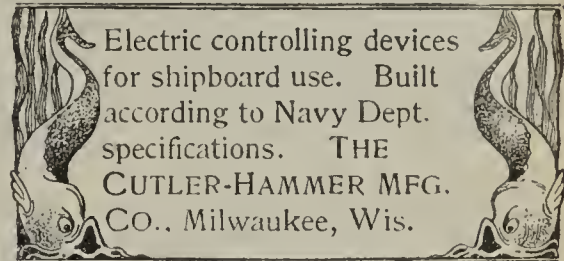
*Conley, Horace J., Green Bay, Wis.

*Cramp, Wm. & Sons, Ship & Engine Bldg. Co., Beach, c. Fall, Phila., Pa.

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*Lockwood Mfg. Co., 61 Sumner, E. B., Boston, Mass.

*Long Island Machine & Marine Construction Co., L. I. City, N. Y.

*Lutcher & Moore Lumber Co., Orange, Tex.

*McCosker, Thos. & Co., Baltimore, Md.

*McKie, Wm., 100 Border, Boston, Mass.

*Manitowoc Dry Dock Co. (Steel Ships, Passenger Steamers, Tugs, etc.), Manitowoc, Wis.

*Marine Iron Works, Clybourn & Southport av., Chicago, Ill.

§Mar, Jno. E. & Son, West Haven, Conn.
 §Marine Railway Machine & Boiler Works.
 (Tugboats, etc.), Baltimore, Md.
 Marine Railway Ship Building & Coal Co., Alex-
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 §Marsh, Jas. T., Solomons, Md.
 §Marvel, T. S. Shipbuilding Co., Newburgh,
 N. Y.
 *Maryland Steel Co. (All kinds of Steam &
 Sailing Vessels & Barges), Sparrows Point,
 Baltimore, Md.
 *Merrill-Stevens Co., Jacksonville, Fla.
 †Michigan Steel Boat Co., Detroit, Mich.
 §Mills, Jno. L. Co., Camden, N. J.
 †Milwaukee Dry Dock Co., Milwaukee, Wis.
 §Montreal Transportation Co., Montreal, Que.
 §Moran Co., Seattle, Wash.
 §Muncy, Thos. F. (Yachts Only), Bay Shore,
 New York
 §Muir, Alex. & Bros., Port Dalhousie, Ont.
 §New England Co., Bath, Me.
 *New York Ship Building Co., Camden, N. J.
 *Newport News Ship Building & Dry Dock Co.,
 Newport News, Va.
 §Nilsson Yacht Bldg. Co. (Yachts, etc.), Balti-
 more, Md.
 §Oades, Walter H., Detroit, Mich.
 §Olligner & Bruce Dry Dock Co., Mobile, Ala.
 §Paducan Dry Dock Co., Paducah, Ky.
 §Palmer, R. & Son Shipbuilding & Marine
 Railway Co., Noank, Conn.
 §Paquet, Joseph, 112 E. 12th, Portland, Ore.
 §Percy & Small, Bath, Me.
 §Penn & Lake Dry Dock Co., Pittsburg, Pa.
 §Perth Amboy Dry Dock Co., Perth Amboy,
 N. J.
 *Poison Iron Works, Toronto, Can.
 †Phillips, G. K. & Co., Bethel, Del.
 §Poillon, C. & R., N. Y. & Clinton, So.
 Brooklyn, N. Y.
 §Portland Ship Building Co. (Motor Boat
 Launches, Yachts, also Ship Knees), Port-
 land, Me.
 *Pusey & Jones Co. (Yachts, Sailing & Steam
 Vessels), Wilmington, Del.
 †Racine Boat Mfg. Co. (Steel Vessels, Canoes,
 Yachts, etc.), Muskegon, Mich.
 Raritan Dry Dock Co. (Scows, Tugs, Barges,
 etc.), Perth Amboy, N. J.
 §Read Bros., Fall River, Mass.
 §Reibold, Walter & Co., Sturgeon Bay, Wis.
 §Reynolds, Frank W. (Tugs, River Vessels,
 Scows, etc.), Canajoharie, N. Y.
 *Richmond Iron Works, Richmond, Va.
 *Risdon Iron & Locomotive Works, Stenart &
 Folsom, San Francisco, Cal.
 *Riter-Conley Mfg. Co., Pittsburg, Pa.
 §Rossiter, Chas. S. & Co., ft. of Montgomery,
 Baltimore, Md.
 §Ryan, John, Whitehall, N. Y.
 §Sawyer Bros. Millbridge, Me.
 §Sawyer, Warren, Millbridge, Me.
 †Sewall, Arthur & Co., Bath, Me.
 *Ship Owners Dry Dock Co., 381 N. Halsted,
 Chicago, Ill.
 §Simpson Lumher Co., San Francisco, Cal.
 §Skaneateles Boat & Canoe Co., Skaneateles,
 N. Y.
 *Skinner Ship Building & Dry Dock Co.,
 Baltimore, Md.
 §Smith, Abram & Sons, Algonac, Mich.
 §Smith & McCoy, Norfolk, Va.
 §Smith, Jno. P. Co., Nyack, N. Y.
 §Snow, I. L. & Co., Rockland, Me.
 §Southern Ship Bldg. Co., Jacksonville, Fla.
 *Spedden Ship Building Co., Baltimore, Md.
 §Starlin Ship Yard & Iron Works, Port Rich-
 mond, S. I., N. Y.
 §Stearns & McKay (Tugs, River Vessels,
 Scows, etc.), Marblehead, Mass.
 §Stetson, E. & I. K., Bangor, Me.
 §Stone, W. F. & Co. (Tugs, River Vessels,
 Scows, etc.), San Francisco, Cal.
 §Story, A. D., Essex, Mass.
 *Superior Ship Building Co., Superior, Wis.
 §Supple, Jos., Portland, Ore.
 §Swanson, Peter, Thurston, Cal.
 §Swenson, Johan, ft. of Warren, Jersey City,
 N. J.
 §Tarr & James, Essex, Mass.
 §Thames Towboat Co., New London, Conn.
 §Thropp, Jno. E. Sons Co. (Small Passenger
 Steamers, Tugs & Yachts Complete), ft.
 of Lewis, Trenton, N. J.
 *Toledo Ship Building Co., Toledo, Ohio
 †Truscott Boat Mfg. Co., St. Joseph, Mich.
 *United Engineering Works, San Francisco,
 Cal.
 *Union Iron Works Co. (Battleships, Steam-
 ships, Steam Tugs), San Francisco, Cal.
 §Vansant, Stanley G., Atlantic City, N. J.
 §Washburn Bros., Thomaston, Me.
 §Waterhouse, Frank & Co. (Inc.), Seattle,
 Wash.
 *West Bay City Ship Building Co., West Bay
 City, Mich.

*White, Robert Engineering Works (Tugboats,
 Lighters, etc.), ft. of Columbia, Brooklyn,
 N. Y.
 §Williams-Whittlesey Co. (Tugs, River Ves-
 sels, Scows, etc.), Long Island City, N. Y.
 §Woodall, Wm. E. & Co., ft. Allen, Baltimore,
 Md.
 §Wood, B. F. (Tugs, River Vessels, Scows,
 etc.), City Island, N. Y.

Ship Knees

Portland Ship Building Co., Portland, Me.

Shock Absorbers

Baldwin Chain & Mfg. Co. ("House"),
 Worcester, Mass.
 Buffalo Specialty Co. ("Thomson"), 375 Ell-
 cott, Buffalo, N. Y.
 Diezemann Shock Absorber Co. ("Dieze-
 mann"), 1311 Hudson, Hoboken, N. J.
 Duke, Oak ("Conduc"), Wellsville, N. Y.
 Gabriel Horn Mfg. Co. ("Foster"), Cleveland,
 Ohio
 Graygood Co. ("Graygood"), 53 W. 93d, New
 York
 Hartford Suspension Co. ("Truffault-Hart-
 ford"), 67 Vestry, New York
 Hercules Auto. Specialty Mfg. Co., Los An-
 geles, Cal.
 Herz & Co. ("Pater Noster"), 203 Lafayette,
 New York
 Hotchkiss Mfg. Co. ("Hotchkiss") Anti-Jolt De-
 vice), 1256 Michigan av., Chicago, Ill.
 Indianapolis Bolster Spring Co., 107 S. Me-
 ridian, Indianapolis, Ind.
 Kelsey, C. W., 317 W. 59th, New York
 Kelsey Suspension Co., Tarrytown, N. Y.
 Kligore Automobile Air Cushion Co., 48 Co-
 lumbus av., Boston, Mass.
 Rueckert Compound Shock Absorber (Thos. E.
 Curry, Mgr.), 66 Leonard, New York
 Sager, J. H. Co., Rochester, N. Y.
 Shippey, George E., 220 1st, Pittsburg, Pa.
 Supplementary Spiral Spring Co., 4524 Delmar
 boul., St. Louis, Mo.
 Toquet, B. Louis, South Norwalk, Conn.
 Twombly Power Co., 12th av & 51st, New
 York
 Weeber, C. J. Mfg. Works, Albany, N. Y.
 Walker, E. C. Co., 1905 Logan, Louisville, Ky.

Shockers (Corn)

Independent Harvester Co., Plano, Ill.
 International Harvester Co. of America, Chi-
 cago, Ill. (Osborne Plant, Auburn, N. Y.)

Shoe Blackings & Polishes

American Shoe Polish Co. ("Eagle"), 222 N.
 Franklin, Chicago, Ill.
 Bixby, S. M. & Co., 194 Hester, New York.
 Brown, B. F. & Co., Boston, Mass.
 Buckeye Chemical Co., Findlay, Ohio
 Burckard Blacking & Oil Co. ("Okollite"), 520
 W. Franklin, Baltimore, Md.
 Diamond, McDonnell & Co., Phila., Pa.
 Hawthaway, C. L. & Son, Boston, Mass.
 Imperial Leather Preserver Mfg. Co. ("Leath-
 erline" Waterproof), 216 Chancellor, Phila.,
 Pa.
 Mason, James S. Co., Phila., Pa.
 Miller, Frank Co., 349 W 26th, New York
 Prescott, J. L. & Co., 92 W B'way, New York
 Robb, C. L. Mfg. Co., Bellefontaine, O.
 Whittemore Bros. Co. (Polishes, Paste, etc.,
 "Quick White," "Dandy," "Rossola,"
 "Gilt Edge," "Baby Elite," "Star," "Su-
 perb," "Dandy Russet Paste"), Cam-
 bridge, Mass.
 Wood, Geo. H. Co., Boston, Mass.

*Shoe Horns

DELAWARE HARD FIBRE CO. (Hard
 Fibre), Wilmington, Del. Works, Marshall-
 town, Del. (See adv. index, end of book)
 DIAMOND STATE FIBRE CO. (Hard
 Fibre), Elsmere, Del. (See adv. index,
 end of book)

**When writing to firms listed
 in this book please mention
 HENDRICKS'
 COMMERCIAL REGISTER**

Shoe Scraper & Cleaners

Stiles Fdry. & Supply Co., Parkersburg, Va.

Shoe Shiners

American Hardware Mfg. Co. ("American"),
 Ottawa, Ill.

Shoes (Cutter)

Sweet's Steel Co., Williamsport, Pa.

Shoes (Horse, Rubber)

DIAMOND RUBBER CO., Akron, O.
 (See adv. index, end of book)
 Goodyear Tire & Rubber Co., Akron, O.
 Revere Rubber Co., 77 Bedford, Boston, Mass.
 WHITMAN & BARNES MFG. CO. ("W.
 & B.") Rubber Pad, West Pullman, Chica-
 go, Ill. (See adv. index & branch office, end
 of book)

Shoes (Horse & Mule)

American Horse Shoe Co. (Horse & Mule),
 Phillipsburg, N. J.
 AMERICAN STEEL & WIRE CO. (Horse
 "Junata" Brand, Iron or Steel, in all Sizes
 & Patterns, also Toe Calks), Commercial
 Steel Bank Bldg., Chicago, Ill. (See adv.
 index & branch offices, end of book)
 Bryden Horse Shoe Co. (Horse & Mule), Cata-
 sauqua, Pa.
 Burden Iron Co. (Horse), Troy, N. Y.
 Cincinnati Horse Shoe Co. (Horse & Mule), Cin-
 cinnatl, Ohio.
 Cray Bros. ("Cleveland" Iron Shoe), Cleveland,
 Ohio
 Huinane Horse Shoe Co., Lima, Ohio
 Manhattan Rolling Mill (Inc.) (Horse), 362
 Avenue A, New York
 Meyer, Otto A. Co. (Steel Calk Horse Shoe),
 Milwaukee, Wis.
 Neverslip Mfg. Co. ("Neverslip" Red Tip
 Horse Shoes), New Brunswick, N. J.
 Old Dominion Iron & Nail Works Co. (Horse
 & Mule), Richmond, Va.
 Parkway Drop Forge Horseshoe Co., Clevel-
 and, O.
 Phoenix Horse Shoe Co. (Horse & Mule), The
 Hookery, Chicago, Ill.
 Rhode Island Perkins Horse Shoe Co. ("Per-
 kins" Horse & Mule), Providence, R. I.
 Scott Iron & Steel Co. (Horse), Carnegie, Pa.
 Side Weight Horse Shoe Co. ("Boss," "Hart-
 ford"), Mechanic, Hartford, Conn.
 Standard Horse Shoe Co., Boston, Mass., &
 South Wareham, Mass.
 Tredegar Co., Richmond, Va.
 United States Horse Shoe Co. (Horse), Erie, Pa.
 Virginia Iron, Coal & Coke Co., Roanoke, Va.
 Williams Drop Forging Co. ("Williams" Cant-
 slip Drop Forged Horse Shoes & Remov-
 able Calks), Scranton, Pa.

Shoes (Ox)

Atwater Mfg. (Forged Wrought Iron), Plants-
 ville, Conn.
 Millers Falls Co., 28 Warren, New York; Works,
 Millers Falls, Mass.
 Scranton Forging Co., Scranton, Pa.
 Woodruff, W. W. & Sons Co., Mount Carmel,
 Conn.

Shoes (Plank)

Pollard, Jos. G. (Steel), 141 Raymond, Brook-
 lyn, N. Y.

Shoes (Sliding Furniture)

Onward Mfg. Co. ("Onward"), Menasha, Wis.

Shoes & Dies (Stamp Mill)

ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)
 American Brake Shoe & Foundry Co. (Cast
 Steel), Mahwah, N. J., & Western Union
 bldg., Chicago, Ill.
 American Steel Foundries, Main Office, Com-
 mercial Nat. Bank bldg., Chicago, Ill.
 Chester Steel Casting Co., 407 Sanson, Phila.,
 Pa., & Chester, Pa.
 Chrome Steel Works (Adamantine), Chrome,
 Colorado Iron Works Co., Denver, Col. N. J.
 Davis, F. & M. Iron Works Co., Denver, Col.
 Denver Eng. Works Co., Denver, Col.
 Hendy, Joshua Machine Works ("The Wit-
 son"), San Francisco, Cal.
 KOPPEL, ARTHUR CO., Machesney
 Bldg., Pittsburg, Pa. (See adv. index &
 branch offices, end of book)

National Steel Casting Co., Montpelier, Ind.
Power & Mining Machinery Co., Cudahy, Wis.
Bladon Iron & Locomotive Works, Stewart & Folsom, San Francisco, Cal.
Taylor Iron & Steel Co. ("Hatfield"), Elkhart Bridge, N. J.

ERNST WIENER COMPANY.

475 Fulton bldg., New York. (See adv. index & branch offices, end of book)

Shooks (Box)

Acushnet Saw Mills Co., Acushnet, Mass.
Allegheny Box Co. (Exp.), Richmond, Va.
Anderson-Tully Co., Memphis, Tenn.
Astoria Box Co. (Exp.), Astoria, Ore.
Badger Box & Lumber Co. (Exp.), Grand Rapids, Wis.
Barnes, E. H. Co., 11 B'way, New York
Bartlett Box & Lumber Co., Westboro, Mass.
Barron, Jas. S. Co. (Exp.), 127 Franklin, New
Hardsley, R., Buckeye, Wash.
Bradley, Miller & Co., Bay City, Mich.
Brannum Mfg. Co., Edenton, N. C.
Breault, M. Co., Cohoes, N. Y.
Brookings Lumber & Box Co., Highland, Cal.
Buffalo Box Factory (Exp.), 240 Perry, Buffalo,
Butts, C. G. & Co., Tonawanda, N. Y.
Carlier Lumber & Mfg. Co., Sardis, Miss.
Carter, Jno. A., Petersham, Mass.
Chaffee Bros. Co. (Exp.) (By Car Lots), Oxford, Mass.
Chandler, E. L. Co., Barton Landing, Vt.
Chicago Mill & Lumber Co., W. Chicago av. & N. Sangamon, Chicago, Ill.
Clow, Elmer L., Eastbrook, Me.
Cochran Lumber Co., Chelsea, Memphis, Tenn.
Cohn & Bock, Princess Anne, Md.
Connecticut Box Co. (Inc.), New Haven, Conn., & 30 Church, New York
Delta Box & Mfg. Co., Chancy, Miss.
Derry, Fred. J., Danvers, Mass.
Duker, J. H. Box Co., Eden & Alicanna, Baltimore, Md.
Eddy Bros. & Co. (Ltd.), Bay City, Mich.
Ellington & Gny. (Va. Sap Pine), Richmond, Va.
Feuton Bros. Box & Lumber Co., Tonawanda, N. Y.
Fidalgio Mill Co. (Exp.), Anacortes, Wash.
Flick, A. R. Box Co., Dubuque, Ia.
Gale, Conrad H., Tully, Mass.
Gilkey & Anson Co., Merrill, Wis.
Goodwill Bros., 171 Lussale, Chicago, Ill.
Griggs, D. B. & Sons, Chicopee Falls, Mass.
Gulf Cooperage Co., Pittsburg, Pa.
Habu, J. N. Co., Cuyahoga av., cor. W. 4th, Cleveland, Ohio.
Harmon, J. E. & Son, Watertown, N. Y.
Holley-Matthews Mfg. Co., Sikeston, Mo.
Iowa Lumber & Box Co., Council Bluffs, Iowa
Jordan Lumber Co., Old Town, Me.
Keokuk Box Co., Council Bluffs, Iowa
Kelley Lumber & Shingle Co., Traverse City, Mich.
Kress, F. J. Box Co., 2920 Liberty av., Pittsburgh, Pa.
Lake Superior Lumber & Box Co., Ashland, Wis.
Lawrence, Newhall, Page & Co., Augusta, Me.
Linderman Box & Veneer Co., Eau Claire, Wis.
Lucas Lumber Co. (Exp.), Tacoma, Wash.
Luman, J. & Son, Falls River, Mass.

Marquette & Menominee Box Co., Marquette, Wis.
Melendy, C. F., Nashua, N. H.
Mengel, E. & Co., Bay City, Mich.
Mengel, C. C. & Bro. Co. (Exp.), Louisville, Ky.
Mershon-Bacon Co. (Boxes in Shooks or Nailed), Bay City, Mich.
Mershon, Schuette, Parker & Co. (Exp.), Saginaw, Mich.
McLigan Mfg. & Lumber Co. (Exp.), Holly, Mich.
Millard Lumber Co., New Hamburg, N. Y.
Mississippi Box Co., Muscatine, Ia.
Morrison Mill Co., Perudale, Wash.
Murphy Box Co., Green Bay, Wis.
Musser, Wm. Lumber & Mfg. Co., Spokane, Wash.
Nashua Spool & Bobbin Co., Journal Bldg., Boston, Mass.
Naylor, S. E. (Domestic & Export), Gulfport, Miss.
Osgood & Blodgett Mfg. Co., St. Paul, Minn.
National Box Co. (Exp.), 105 Jefferson, Cleveland, O.
Nickleless, W. H., Bay City, Mich.
Paepske-Leicht Lumber Co. (Exp.), W. Chicago av. & N. Sangamon, Chicago, Ill.
Peart, Nields & McCormick Co., Harrison Bldg., Phila., Pa.
Pierpont Mfg. Co. (Exp.), Savannah, Ga.
Presbrey, A. A. & Son Co., Providence, R. I.
Rice, Henry H. & Co., South Athol, Mass.
Rieckhoff, W. H. Co., New Duluth, Minn.
Rust-Owen Lumber Co. (Wisconsin Cork Pine), Drummond, Wis.
Saginaw & Manistee Lumber Co., Saginaw, Mich.
Saginaw & Rittler Box Co., 621 S. Carolina, Baltimore, Md.
Sawyer & Austin Lumber Co., Kansas City, Mo.
Schultz Bros. (Exp.), 71 B'way, New York
Sierra Lumber Co., San Francisco, Cal.
Skinner, French & Co., Barton Landing, Vt.
Smith, C. A. Lumber Co., Minneapolis, Minn.
South Muscatine Lumber Co., Muscatine, Ia.
South Side Lumber Co., Traverse City, Mich.
Southern Roller, Stave & Heading Co. (Gum Box), Elizabeth City, N. C.
Stevens Point Box Co., Stevens Point, Wis.
Stillwater Mfg. Co., Stillwater, Minn.
Stone, E. E. Lumber & Box Co. (Exp.), Spencer, Mass.
Stovall Mfg. Co., Stovall, N. C.
Sunset Door & Sash Co., Stockton, Cal.
Talbott Bros. Co., Providence, R. I.
Thompson, G. A. & Son, Hurlock, Md.
Thornton, E. A. Lumber Co., Chamber of Commerce, Chicago, Ill.
Treworgy, Charles J., Ellsworth Falls, Me.
Vance, E. J. Box Co. (Ltd.) (Exp.), Bay City, Mich.
Varney, Isaac & Sons Co. (Exp.), Fall River, Mass.
Verdi Lumber Co., Verdi, Nev.
Warrior Mfg. Co., Birmingham, Ala.
Wausau Box & Lumber Co., Wausau, Wis.
White, A. C., Saginaw, Mich.
Wlug & Eagle Co., Old Town, Me.

Shooks (Tub, Bucket, Etc.)

Langeland Mfg. Co. (Box), Muskegon, Mich.
Riggs Cypress Co. (Also for Washing Machines, Ice Cream Freezers), Patterson, La.

Shooting Galleries (Mechanical)

Mangels, Wm. F. (Steel), 2941 W. 5th, Brooklyn, N. Y.
Parker, C. W., Abilene, Kan.

Shot Mfrs.

Balley, Farrel Mfg. Co., Pittsburg, Pa.
Colwell Lead Co., Lafayette & Walker, New York
Hoyt Metal Co., St. Louis, Mo., & Perth Amboy, N. J.
Markie Lead Wks., Rialto bldg., St. Louis, Mo.
Raymond Lead Co., 55 W. Lake, Chicago, Ill.
Robertson, Jas. Mfg. Co., Baltimore, Md.
Selby Smelting & Lead Co. (Drop, Chilled, etc.), San Francisco, Cal.
Shepard, Sidney & Co., Buffalo, N. Y.
Sparks, Thos. W., 121 Walnut, Phila., Pa.
Tatham & Bros., 261 Water, New York
United Lead Co., 111 B'way, New York
Wythe Lead & Zinc Mine Co., Austierville, Va.

Shot (Steel Chilled)

Bowers, R. C. Granite Co., Montpelier, Vt.
Calais Shot Works, Calais, Me.
HARRISON SUPPLY CO., 5 & 7 Dorchester av. Extension, Boston, Mass. (See adv. index, end of book)
Pittsburgh Crushed Steel Co. (Ltd.), Pittsburgh, Pa.
Townsend, Townsend & Co., 453 W 21st, New York

*Shot (Steel, Sand Blast)

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd., Cleveland, O. (See adv. index, end of book)

Shovel, Spade & Scoop Mfrs.

Ames Shovel & Tool Co., Ames Bldg., Boston, Mass. Works, North Easton, Mass.
Avery Stamping Co. ("Never Break"), Cleveland, O.
Baldwin Forging & Tool Co., Columbus, O.
Beall Bros. (Inc.), Alton, Ill.
Belknap Mfg. Co., Anamosa, Iowa.
DAREY, GEO. H. (Jobber), 1 B'way, New York. (See adv. index, end of book)
Chisholm Steel Shovel Wks., Cleveland, O.
Collins Co., Collinsville, Conn.
Conneaut Shovel Co. ("Milk Kola," "Rouberg"), Conneaut, Ohio.
Hubbard & Co., Pittsburg, Pa.
Lussey-Blinns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
Indiana Rolling Mill Co., New Castle, Ind.
Indiana Shovel Co., New Castle, Ind.
Jackson Shovel & Tool Co., Montpelier, Ind. & Market & Randolph, Chicago, Ill.
Maynard, C. A., Northampton, Mass.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Owensboro Shovel & Tool Co. ("McCulloch"), "Owensboro," "Kentucky," "Handy Andy," Owensboro, Ky.
Ohio Shovel & Stamping Co., Canal Dover, O.
Pfeifer, Jno. & Co., 222 Race, Phila., Pa.
PITTSBURGH GAGE & SUPPLY CO. ("Best-Of-All," Contractors'), 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
Pittsburg Shovel Co., Frick Bldg., Pittsburg, Pa. Works, Leechburg, Pa.
Rowland, Maxwell & Co. (Inc.), Hokesburg, Philadelphia, Pa.
Russell, J. C. Shovel Co., Pittsburg, Pa.

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Star Shovel & Range Co., Vincennes, Ind.
 Stroh, Peter (Malt), Covington, Ky.
 Union Fork & Hoe Co. (Garden Spades Only).
 Columbus, O.
 Union Furnace Mfg. Co., Union Furnace, Pa.
 Wood Shovel & Tool Co., Piqua, O.
 Wyoming Shovel Works, Wyoming, Pa.

Shovels (Automatic Steam)

Hunt, C. W. Co., West New Brighton, S. I.,
 N. Y.
MEAD-MORRISON MFG. CO., Cam-
 bridge (Boston), Mass., & 11 B'way, New
 York. (See adv. index & branch offices, end
 of book)
 Thew Automatic Shovel Co., Lorain, O.

Shovels (Bakers')

Hussey-Binns Shovel Co. (Cast Steel), Pitts-
 burg, Pa.

Shovels (Coal)

Ames Shovel & Tool Co., Ames Bldg., Boston,
 Mass.
 Beall Bros. (Inc.), Alton, Ill.
 Chisholm Steel Shovel Wks., Cleveland, O.
 Chisholm, Wm. & Sons, Cleveland, Ohio.
 Collins Co., Collinsville, Conn.
 Conneaut Shovel Co. ("Union"), Conneaut, Ohio
 Hardsoeg, Martin Co., Allegheny, Pa.
 Hubbard & Co., Pittsburg, Pa.
 Hussey-Binns Shovel Co. (Crucible Cast Steel),
 Pittsburg, Pa. Works, Charleroi, Pa.
 Indiana Shovel Co., New Castle, Ind.
 Maynard, C. A. ("C. A. Maynard"), North-
 ampton, Mass.
 Mount Pleasant Tool Co., Mount Pleasant, Pa.
 Owensboro Shovel & Tool Co. (Hollow Back),
 Owensboro, Ky.
 Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
PITTSBURGH GAGE & SUPPLY CO.
 ("Best-Of-All"), 30th & Liberty av., Pitts-
 burgh, Pa. (See adv. index, end of book)
 Pittsburg Shovel Co., Pittsburg, Pa.
 Russell, J. C. Shovel Co., Pittsburg, Pa.
 Union Furnace Mfg. Co., Union Furnace, Pa.
 Wood Shovel & Tool Co., Piqua, Ohio

Shovels (Cultivator)

Akron Machine Co., Akron, O.
 Albright, Jas. H. & Sons, Mifflinburg, Pa.
 Allen, S. L. & Co., 1017 Market, Phila., Pa.
 Avery, B. F. & Sons, Louisville, Ky.
 Cambria Steel Co. (Gautier Dept.), Johnstown,
 Pa., & Arcade bldg., Philadelphia, Pa.
 Crescent Forge & Shovel Co., Havana, Ill.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Gale Mfg. Co., Albion, Mich.
 Harrow Spring Co., Kalamazoo, Mich.
 Havana Metal Wheel Co. ("Crescent") Ha-
 vana, Ill.
 Hench & Dromgold Co., York, Pa.
 Mason, F. C. & Co., St. John's, Mich.
 Moline Plow Co., Moline, Ill.
 Morrison Mfg. Co., Fort Madison, Ia.
 Ohio Cultivator Co., Bellevue, O.
 Parlin & Orendorff Co., Canton, Ill.
 Star Mfg. Co., Carpentersville, Ill.
 Weyburn Co. ("Rockford Ideal"), Rockford,
 Ill.
 White, S. R. & Bro., Norfolk, Va.

Shovels (Drain)

Beall Bros. (Inc.), Alton, Ill.
 Harriman Hoe & Tool Co. ("Decatur"), Harri-
 Hubbard & Co., Pittsburg, Pa.
 Indiana Shovel Co., New Castle, Ind.
 Iwan Bros. ("Iwan's Champion"), South Bend,
 Ind.
 Mount Pleasant Tool Co. (Long Handle),
 Mount Pleasant, Pa.
 Owensboro Shovel & Tool Co., Owensboro, Ky.
 Pittsburg Shovel Co., Frick bldg., Pittsburg,
 Pa.; Works, Leechburg, Pa.
 Wood Shovel & Tool Co., Piqua, O.

Shovels (Electric)

Vulcan Steam Shovel Co., Toledo, O.

Shovels (Fire)

Dayton Malleable Iron Co. (Malleable Iron),
 Dayton, O.
 Geuber & Paeschke (Fire Shovels), Milwaukee,
 Wis.
 Hazel Atlas Glass Co. (Wrought and Stamped)
 Wheeling, W. Va.
 Ireland & Matthews Mfg. Co., Detroit, Mich.
 Iron Clad Mfg. Co., 204 Varet, Brooklyn, N.Y.
 Reiter, G. C., Canton, O.
 Union Furnace Mfg. Co., Union Furnace, Pa.

*Shovels (Hand Dump)

FAIRBANKS, MORSE & CO. (For
 Quickly Moving Coal or Grain), Wabash av
 & Eldredge pl., Chicago, Ill. (See adv. In-
 dex & branch offices, end of book)

Shovels (Lime)

Hubbard & Co., Pittsburg, Pa.
 Indiana Shovel Co., New Castle, Ind.
 Mount Pleasant Tool Co. (Long Handle), Mount
 Pleasant, Pa.
 Owensboro Shovel & Tool Co., Owensboro, Ky.
 Pfeifer, Jno. & Co. (Cast Steel), 224 Race,
 Phila., Pa.
 Pittsburg Shovel Co., Frick bldg., Pittsburg,
 Pa. Works, Leechburg, Pa.

Shovels (Mining Machine)

Beall Bros. (Inc.), Alton, Ill.
 Conneaut Shovel Co. ("Magyar Unlons"), Con-
 neaut, Ohio
 Hussey-Binns Shovel Co. (Crucible Cast Steel),
 Pittsburg, Pa. Works, Charleroi, Pa.
 Indiana Shovel Co., New Castle, Ind.
 Mount Pleasant Tool Co., Mount Pleasant, Pa.
 Owensboro Shovel & Tool Co., Owensboro, Ky.
 Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
 Pittsburg Shovel Co., Pittsburg, Pa.
 Union Furnace Mfg. Co., Union Furnace, Pa.

Shovels (Molders')

Beall Bros. (Inc.), Alton, Ill.
 Conneaut Shovel Co., Conneaut, Ohio
HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)
 Hubbard & Co., Pittsburg, Pa.
 Mount Pleasant Tool Co., Mount Pleasant, Pa.
 Indiana Shovel Co., New Castle, Ind.
 Owensboro Shovel & Tool Co., Owensboro, Ky.
 Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
 Pittsburg Shovel Co., Frick bldg., Pittsburg,
 Pa. Works, Leechburg, Pa.
 Wood Shovel & Tool Co., Piqua, O.

Shovels (Power, Grain)

Caldwell, H. W. & Son Co., 17th & Western
 av., Chicago, Ill.
 Dodge Mfg. Co., Mishawaka, Ind.

Shovels (Snow)

Atlas Mfg. Co., Danville, Pa.
 Avery Stamping Co. (Steel), Cleveland, O.
 Beall Bros. (Inc.), Alton, Ill.
 Benton Mfg. Co., Charlotte, Mich.
 Hubbard & Co., Pittsburg, Pa.
 Hussey-Binns Shovel Co. (Cast Steel), Pittsburg,
 Pa. Works, Charleroi, Pa.
 Indiana Shovel Co., New Castle, Ind.
 Kohler, F. E. & Co. ("Cyclone," etc.), Canton,
 Ohio
 Mount Pleasant Tool Co., Mount Pleasant, Pa.
 Neverslip Tin Cover Co. ("Gifford's" Galvan-
 ized Steel Plate), Watertown, N. Y.
 Owensboro Shovel & Tool Co., Owensboro, Ky.
 Owosso Mfg. Co. (Galvanized Steel Blade),
 Owosso, Mich.
 Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
 Phillips, A. J. Co. (Wood & Steel), Fenton,
 Mich.
 Pittsburg Shovel Co., Pittsburg, Pa.
 Reiter, G. C., Canton, O.
 Rugg Mfg. Co. ("Star Rugg" Wood & Steel),
 Greenfield, Mass.

Shovels (Steam)

(See also Buckets, Clam Shell, Etc.)
ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)
 American Locomotive Co. ("Atlantic"), 111
 B'way, New York
 Atlantic Equipment Co., 30 Church, New York
 Bellefontaine Foundry & Machine Co., Belle-
 fontaine, O.
 Beatty, M. & Sons, Welland, Ontario, Canada
 Browning Engineering Co., Cleveland, O.
 Bucyrus Co., South Milwaukee, Wis.
CARLIN'S, THOS. SONS CO., 1610
 River av (North Side), Pittsburg, Pa. (See
 adv. index, end of book)
 Cupples Adjustable Tooth Co., Tyrone, Pa.
 East St. Louis Locomotive & Machine Shop
 Co. (Rebuilt), East St. Louis, Mo.
 Fairbanks Steam Shovel Co., Marion, O.
 Heyworth, Jas. O. ("Heyworth-Newman"),
 Harvester bldg., Chicago, Ill.

Kingsford Foundry & Machine Works, Oswego,
 Marion Steam Shovel Co., Marion, O. N. Y.
MARYLAND EQUIPMENT & SUPPLY
 Co., Calvert & Fayette, Baltimore, Md. (See
 adv. index, end of book)

Ohio Steam Shovel Co., Toledo, O.
 Osgood Dredge Co., Albany, N. Y.
 Souther, John & Co., 185 Summer, Boston,
 Mass.

Thew Automatic Shovel Co., Lorain, O.
 Toledo Foundry & Machine Co. ("Victor"),
 Toledo, O.

Vulcan Steam Shovel Co., Toledo, Ohio.
ERNST WIENER
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475 Fulton bldg., New York. (See adv. index
 & branch offices, end of book)

Shovels (Steam, Second-Hand)

Apex Equipment Co. (Mfrs.' Agts.), All Kinds),
 11 B'way, New York
 Atlantic Equipment Co., 30 Church, New York
 Baldwin Equipment & Supply Co., Flsher, bldg.,
 Chicago, Ill.
 Cincinnati Equipment Co., Cullom's Station,
 Cincinnati, O.
 Law Railing Equipment Co., Western Union
 bldg., Chicago, Ill.
 Males Co., 1st Nat'l Bank Bldg., Cincinnati,
 Ohio, & 26 Cortlandt, New York
MARYLAND EQUIPMENT & SUPPLY
 Co., Calvert & Fayette, Baltimore, Md. (See
 adv. index, end of book)
 Mltshkun, M. Co., Detroit, Mich.
 Torbet, A. C. & Co., Monadnock blk., Chicago,
 Ill.
SHAW, WILLIS CO., 171 La Salle,
 Chicago, Ill. (See adv. index, end of book)
WATSON, BENJAMIN, 66 Beaver, New
 York. (See adv. index, end of book)
 Watson, Jno. B., Drexel bldg., Phila., Pa.
 Zeinicker, Walter A. Supply Co., St. Louis, Mo.

Shovels (Telegraph)

Beall Bros. (Inc.), Alton, Ill.
 Hubbard & Co., Pittsburg, Pa.
 Hussey-Binns Shovel Co. (Crucible Cast Steel,
 Handles 7 to 8 ft.), Pittsburg, Pa. Works,
 Charleroi, Pa.
 Indiana Shovel Co., New Castle, Ind.
 Mount Pleasant Tool Co., Mount Pleasant, Pa.
 Owensboro Shovel & Tool Co., Owensboro, Ky.
 Pfeifer, Jno. & Co., 224 Race, Phila., Pa.
 Pittsburg Shovel Co., Frick bldg., Pittsburg,
 Pa. Works, Leechburg, Pa.
 Union Furnace Mfg. Co., Union Furnace, Pa.

Show Case Fixtures (Metal)

Van Doorn Co. (All Finishes), Quincy, Ill.

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 jobbers in every line of
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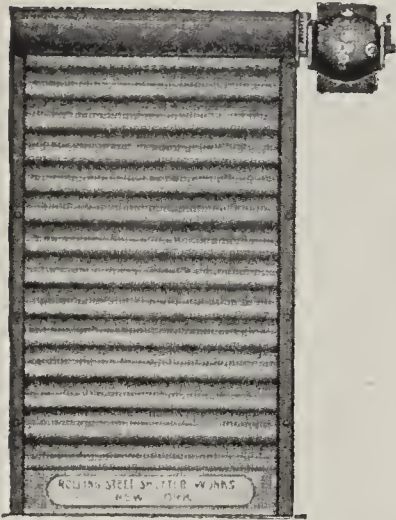
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 Bartelstone, Harris & Son (All Glass), 56 Cooper sq., New York
 Blitz Bros., 80 Norton, Chicago, Ill.
 Bodach, Chas. & Sons, 187 5th av., Chicago, Ill.
 Borneman & Co., 62 N 4th, Phila., Pa.
 Columbus Corner Post Co., Columbus, O.
 Coulson, J. W. & Co., Columbus, Ohio
 Crane Glass & Mfg. Co. (All Glass), 206 St Clair av., N. E., Cleveland, Ohio
 Detroit Show Case Co., Detroit, Mich.
 Grand Rapids Fixture Co., Grand Rapids, Mich.
 Grand Rapids Show Case Co., Grand Rapids, Mich.
 Grand Rapids Hand Screw Co., Grand Rapids, Mich.
 Home Supply Co., 2301 N 10th, Phila., Pa.
 Illinois Show Case Works (Inc.), 874 N Ashland av., Chicago, Ill.
 Jorgeson, F. C. & Co., 11 N Ann, Chicago, Ill.
 Lutke Mfg. Co., Portland, Ore.
 Michigan Show Case Co. ("Wolverine"), Detroit, Mich.
 National Show Case Co., 20 Johnson av., Brooklyn, N. Y.
 Phillips, John & Co. ("Silent Salesman"), Detroit, Mich.
 Quincy Show Case Works, Quincy, Ill.
 Revell, Alex. H. & Co., 198 Wabash av., Chicago, Ill.
 Rochester Show Case Works, Rochester, N. Y.
 Rubin Figure Co., 206 Drexel bldg., Phila., Pa.
 Scott, N. S. & Co., 440 Adelphi, Brooklyn, N. Y.
 Strass, Wm., 416 Arch, Phila., Pa.
SUN MFG. CO., Columbus, O. (See adv. index, end of book)
 Union Show Case Co., 56 Frank, Chicago, Ill.
 Waddell, J. P. Show Case & Cabinet Co. ("Waddell Detroit"), Detroit, Mich.
 Yesbera Mfg. Co., Inc., Toledo, O.

*Shredders (Chip)

JEFFREY MFG. CO., Columbus, Ohio.
 (See adv. index & branch offices, end of book)

*Shredders (Corn Cob)

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

Shredders (Ice)

Greswold Mfg. Co., Erie, Pa.

*Shredders (Leather Scrap)

JEFFREY MFG. CO., Columbus, O.
 (See adv. index & branch offices, end of book)

Shrinkers (Tire)

Boynton & Plummer, Worcester, Mass.
 Champion Blower & Forge Co., Lancaster, Pa.
 Illinois Iron & Bolt Co. ("H. & B.", "Magie," "Mole," "I. I. & B. Co." & "O. & B." Shrinker & Punch), Carpentersville, Ill.
 Sandage Steel Skein Co., South Bend, Ind.
 Southern Skein & Foundry Co., Chattanooga, Tenn.
 Sovereign, C. E. Co (Mole), Rockford, Ill.
 Victor Tool Co. ("Wolfe" Cold), Waynesboro, Pa.
 Weyburn Co. ("Rockford Ideal"), Rockford, Ill.
Wiley & Russell Mfg. Co. ("Green River" Horizontal & Upright), Greenfield, Mass.

Shutes (Package)

Herrmann & Grace, 671 Bergen, Brooklyn, New York

Shutter Workers

Brockton Shutter Worker Co., Stoughton, Mass.
 Mallory Mfg. Co. ("Mallory's Standard"), Flemington, N. J.
 Quincy Foundry & Novelty Co. ("Plitney"), Quincy, Ill.
 Sargent & Co., New Haven, Conn.
 Zimmerman, G. F. S. & Co., Frederick, Md.

Shutters (Automatic, Fire)

Lane Bros. Co., Poughkeepsie, N. Y.

Shutters (Fire-Proof)

(See Doors & Shutters, Fire Proof)

Shutters (Steel)

AMERICAN ROLLING MILL CO., Middletown, O. (See adv. index, end of book)
 Barnum, E. T. Wire & Iron Wks., 82 Washington av., Detroit, Mich.
BERGER MFG. CO., THE, Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
BOLLES, J. E. IRON & WIRE WKS. Detroit, Mich. (See adv. index, end of book)
 Cambridge Roofing Co., Cambridge, O.
 Canton Art Metal Co., Canton O.
 Dickelman Mfg. Co., Forest, O.
 Eller Mfg. Co., Canton O.
 Gara, McGinley & Co., 23 S 17th, Phila., Pa.
KINNEAR MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
MERRITT & CO., 94 Arch, Camden, N. J. (See adv. index, end of book)
 Mesker, Geo. L. & Co. (Also Doors), Evansville, Ind.
 Mesker & Bro., 421 S 6th, St. Louis, Mo.
MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

MILWAUKEE CORRUGATING CO., Milwaukee, Wis.

(See adv. index & branch offices, end of book)
 Penn. Metal Ceiling & Roofing Co. (Ltd.), 23d & Hamilton, Philadelphia, Pa.
 Perkins Mfg. Co., St. Paul, Minn.
ROLLING STEEL SHUTTER WORKS (John McLean), 162 W 27th, New York.
 (See adv. index, end of book)
SCHREIBER, L. & SONS CO., 8th & Eggleston av., Cincinnati, O. & 1133 B'way, New York. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON CO., 100 Lake, Chicago, Ill. (See adv. index, end of book)
 Steel Roofing & Stamping Works, Des Moines, Iowa
 Variety Mfg. Co. (Iron & Tin Clad Window), Sacramento & Carroll av., Chicago, Ill.
VULCAN CO., Detroit, Mich. (See adv. index, end of book)
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)
 Youngstown Iron & Steel Roofing Co., Youngstown, O.

Shutters (Steel Rolling)

Cornell, J. B. & J. M. Co., 26th & 11th av., New York
KINNEAR MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
MEYERS, FRED. J. MFG. CO. (Fire-Proof Steel Clad), Hamilton, O. (See adv. index, end of book)
ROLLING STEEL SHUTTER WORKS (John McLean), 162 W 27th, New York.
 (See adv. index, end of book)
SCHREIBER, L. & SONS CO., 8th & Proof Steel Clad), 8th & Eggleston av., Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
 Variety Mfg. Co., Sacramento & Carroll av., Chicago, Ill.
WILSON, JAS. G. MFG. CO. ("Salamander"), Chief Office, 3 W 29th, New York; Mills & Factory, Norfolk, Va. (See adv. index, end of book)

Shutters (Wood Rolling)

Flexifold Door & Shutter Co. ("Flexifold"), 10 E. Worcester, Worcester, Mass.
KINNEAR MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Peirce, W. E. & Co., Milford, N. H.
WILSON, JAS. G. MFG. CO., Chief office, 3 W. 29th, New York; Mills & Factory, Norfolk, Va. (See adv. index, end of book)

Sickle & Mower Knife Grinders

(See Grinders, Sickle & Mower Knife)

Sickles (Mower & Reaper)

(See Knives, Mower & Reaper)

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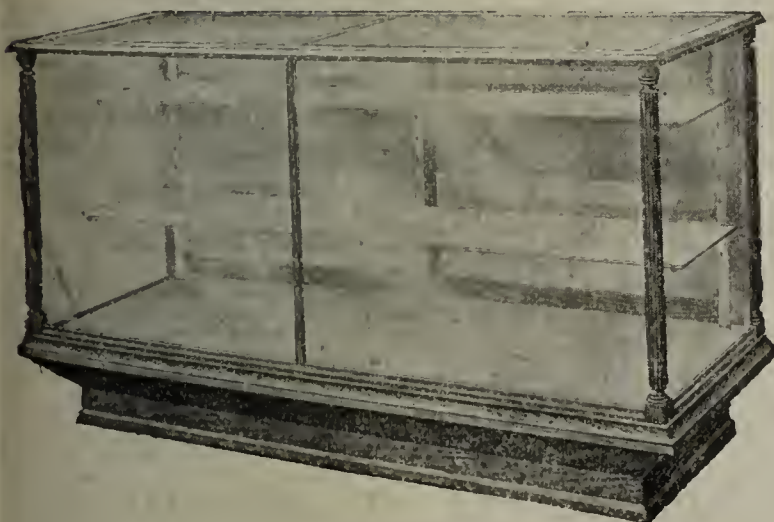
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COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)

Side Edges (Plumbers')

Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.

Side Files for Saws

COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)
Matteson Mfg. Co., 128 S Minton, Chicago, Ill.
Port Huron Engine & Thresher Co., Port Huron, Mich.

Sidewalk Lights

(See Vanit & Sidewalk Lights, Plain & Prismatic)

Sidewalk Lights (Prismatic)

(See Glass, Prismatic)

***Sidewalk Lights (Reinforced Concrete)**

AMERICAN LUXFER PRISM CO., General Offices & Factory, Heyworth Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

***Siding ("Felspar")**

BEAVER MFG. CO., 22 S Perry, Buffalo, N. Y. (See adv. index, end of book)

Sieves (Ash)

Hamblin & Russell Mfg. Co., Worcester, Mass.

Sieves (Flour)

Central Stamping Co. (Seamless Metallic), 174 Fulton, New York
Day, J. H. Co., Cincinnati, O.
Gillart & Bennett Mfg. Co., Georgetown, Conn.
Hamblin & Russell Mfg. Co., Worcester, Mass.
Lalanc & Grosjean Mfg. Co., 209 B'way, New York
Marquette, John N., Baltimore, Md.
MYERS, FRED. J. MFG. CO. ("Hunter's," "Favorite"), Hamilton, O. (See adv. index, end of book)
National Mfg. Co., Worcester, Mass.
SPROUT, WALDRON & CO., Muncy, Pa. (See adv. index, end of book)
Wickwire Bros. (Also Coal), Cortland, N. Y.

***Sieves (Testing)**

TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

***Sieves (Wire)**

HOWARD & MORSE (For Grading Various Products), 45 Fulton, New York. (See adv. facing first page of Index of Contents)
TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

***Sight Feeds for Oiling Devices**

LUNKENHEIMER CO., General Offices and Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Sights (Level)

Stearns, E. C. & Co., Syracuse, N. Y.

Sign Flashers (Electric)

Baker Electric Co. ("Reco," "Reynolds"), 17 E 24th, New York
Bissell, F. Co., Toledo, Ohio
Crescent Co. ("Crescent"), Vulparalso, Ind.
Electro Ad. Co., 51 State, Detroit, Mich.
Electric Motor & Equipment Co., 13 Beaver, Newark, N. J.
Hamblin, Jno. A. Co., Providence, R. I.

Hayes Electric Mfg. Co., Indianapolis, Ind.
Reynolds-Duff Flusher Co., 152 5th av., Chicago, Ill.
Reynolds Electric Flasher Mfg. Co. ("Reco"), 191 5th av., Chicago, Ill.
Schneider, C. O. & Co. ("Firefly"), 103 State, Chicago, Ill.

Signal Car Lights

Brill, J. G. Co., 62d & Woodland av, Philadelphia, Pa.
Smith, Chas. G., 352 Pearl, New York
Star Headlight Co., Rochester, N. Y.

Signal Cord

(See Sash Cord Manufacturers)

Signals (Block System)

American Railway Signal Co. (Automatic Electric Block Crossing Alarms), Cleveland, O.
Federal Signal Co., 103 Park av, New York
GENERAL ELECTRIC CO. (Automatic Electric), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
General Railway Signal Co., Rochester, N. Y.
Kinsman Block System Co., 50 Church, New York
UNION SWITCH & SIGNAL CO., THE (Automatic, Electric & Pneumatic Semaphore), Swissvale, Pa., 143 Liberty, New York, & Monadnock blk, Chicago, Ill.
United States Electric Signal Co., West Newton, Mass.

Signals (Distress)

Coston Signal Co. (Inc.), 5 Water, New York

Signals (Electric Mine)

Flint-Lomax Electric & Mfg. Co., 1400 Del-gang, Denver, Colo.
Richmond Co., 708 Hanover, Milwaukee, Wis.
United Electric & Apparatus Co., 200 Summer, Boston, Mass.

Signals (Electric Railway)

Allen Electric Co., 153 S Jefferson, Chicago, Ill.
Baldwin & Rowland Switch & Signal Co., New Haven, Conn.
Blake Signal & Mfg. Co., Boston, Mass.
Enreka Automatic Signal Co., Tamaqua, Pa.
Federal Signal Co., 103 Park av, New York
General Railway Signal Co. ("Young," "Standard"), Rochester, N. Y.
Gilbs Electric Signal Co., Providence, R. I.
Hall Signal Co., 25 Broad, New York, & Monadnock blk, Chicago, Ill.
Jordan Automatic Signal Co., 74 Beekman, New York
Kinsman Block System Co., 50 Church, New York
Lintern Car Signal Co., Cleveland, O.
Milroy Electric Co., Bueyrus, O.
Ohio Brass Co. ("Hay Cox"), Mansfield, O.
Painter, G. E., Baltimore, Md.
Telegraph Signal Co., Rochester, N. Y.
UNION SWITCH & SIGNAL CO., THE (Interlocking), Swissvale, Pa., 143 Liberty, New York, & Monadnock Blk., Chicago, Ill.
United Electric Signal Co., Providence, R. I.
United States Electric Signal Co. ("Ruddle"), West Newton, Mass.
United States Engineering Co. ("Nash"), 429 Chestnut, Philadelphia, Pa.
Weir Frog Co., Beech & Highland av, Cincinnati, O.
Williamson & Co. ("Ramsey"), Allegheny, Pa.
Wilsou Railway Gate Co., Birmingham, Mich.

Signals (Hospital Nurse)

Electric Goods Mfg. Co., Boston, Mass.
Holzer-Cabot Electric Co., Brookline, Mass.
Novelty Electric Co., 50 N 4th, Philadelphia, Pa.

Signals (Interlocking System)

American Railway Signal Co. (Interlocking Manual & Electric), Cleveland, O.
Federal Signal Co., 103 Park av, New York
General Railway Signal Co., Rochester, N. Y.
Rowell-Porter Safety Stop Co. (Automatic), Rookery bldg, Chicago, Ill.
UNION SWITCH & SIGNAL CO., THE Swissvale, Pa., 143 Liberty, New York, & Monadnock Blk., Chicago, Ill.

Signals (Pneumatic)

Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill.
Works, Harvey, Ill.
General Railway Signal Co., Rochester, N. Y.
Pneumatic Signal Co., Rochester, N. Y.
UNION SWITCH & SIGNAL CO., THE Swissvale, Pa., 143 Liberty, New York, & Monadnock Blk., Chicago, Ill.

Signals (Police)

Ganewell Fire Alarm Telegraph Co., 19 Barclay, New York
Pearce, Fred'k Co., 20 Rose, New York
Rochester Electric Signal Co., Rochester, N. Y.
Utica Fire Alarm Telegraph Co., Utica, N. Y.

Signals (Railway Crossing)

(See also Gates, Railway Crossing; also Railway Supplies; also Frogs, Switches, Crossings & Signals)
Baltimore Enamel & Novelty Co. (Enameled Steel), c Allen & Clement, Baltimore, Md.
Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill.
Works, Harvey, Ill.
Enameled Steel Sign Co., 12 State, Chicago, Ill.
General Railway Signal Co., Rochester, N. Y.
Hall Signal Co., 25 Broad, New York, & Monadnock blk, Chicago, Ill.
Handlan-Buck Mfg. Co. ("Newton's"), 212 N 3d, St. Louis, Mo.
Harris Mfg. Co., Greenville, S. C.
Miller Signal Co., Monadnock blk, Chicago, Ill.
Penna. Steel Co., Girard bldg, Philadelphia, Pa.
Railroad Supply Co., Bedford bldg., Chicago, Ill., and 143 Liberty, New York
Ramapo Iron Works, Hillburn, N. Y., & 26 Cortlandt, New York
Safety Train Order Signal Co., 66 B'way, New York
Standard Railway Gate Co. (Electric Magnette), Saginaw, Mich.
Tatte Railway Signal Co., Contesville, Pa.
UNION SWITCH & SIGNAL CO., THE Swissvale, Pa., 143 Liberty, New York, & Monadnock Blk., Chicago, Ill.
United States Railway Signal Co., Fostoria, O.
Western Railway Signal Co., Fostoria, O.
Wilsou Railway Gate Co. (Electric & Mechanical), Birmingham, Mich.

Signals (Switch)

Barney & Smith Car Co., Dayton, O.
Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill.
Works, Harvey, Ill.
Federal Signal Co., 103 Park av, New York
General Railway Signal Co., Rochester, N. Y.
Penna. Steel Co., Girard bldg, Philadelphia, Pa.
Ramapo Iron Works, Hillburn, N. Y.
UNION SWITCH & SIGNAL CO., THE Swissvale, Pa., 143 Liberty, New York, & Monadnock Blk., Chicago, Ill.

Signals (Train Order)

Adams & Westlake Co. (Telegraph), Ontario cor N Franklin, Chicago, Ill.
Barney & Smith Car Co., Dayton, O.
Federal Signal Co., 103 Park av, New York

***Signs (Advertising)**

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

***Signs (Aluminum)**

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Signs (Brass & Bronze)

Barnum, E. T. Wire & Iron Wks., 82 Washington av, Detroit, Mich.
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
Brown Bros. Mfg. Co., 22d & Campbell av, Chicago, Ill.
CABARET, PAUL E. & CO., 312 W. 14th, New York. (See adv. index, end of book)
Chicago Metal Sign Co. (All Kinds for All Purposes), 56 W Van Buren, Chicago, Ill.
FLOUR CITY ORNAMENTAL IRON Works, 27th st & 28th av, Minneapolis, Minn. (See adv. index, end of book)

GORHAM CO. ARCH'L BRONZE
5th av. & 36th, New York. Works, Providence, R. I. (See adv. index, end of book)
Henry-Bonnard Bronze Co., Mount Vernon, N. Y.

JACKSON, WM. H. COMPANY, 29 E. 17th
(Union Square), New York, & 163 Michigan av, Chicago, Ill. (See adv. index, end of book)

JONES, TREVOR F. & CO. (Also Silver), 374 W B'way, New York. (See adv. index, end of book)
Matthews, Jas. H. & Co., 306 Wood, Pittsburgh, Pa.

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Union Equipment & Bronze Co., 1901 Park av, New York
Van Hoven, John H. H. (Brass & Silver), 42 E. 9th, New York

WINSLOW BROS. COMPANY (Also Brass & Iron). Main Office & Works, 2515 W Harrison, Chicago, Ill. (See adv. index & branch offices, end of book)

WISCONSIN IRON & WIRE WORKS, 190 E. Water, Milwaukee, Wis. (See adv. index, end of book)

*Signs (Business)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

• Signs (Car)

(See also Signs, Enameled Steel)

Brill, J. G. Co. ("Brilliant," Reversible), 62d & Woodland av, Phila., Pa.
Columbia Machine Works & Malleable Iron Co. ("Millen" Illuminated), Atlantic av, cor. Chestnut, Brooklyn, N. Y.

Creaghead Engineering Co. (Indicating), Cincinnati, O.
Enameled Steel Sign Co., 12 State, Chicago, Ill.

Hunter Illuminated Car Sign Co., Cincinnati, Ohio

McLeer Engineering Co. ("F. & B."), 50 Church, New York
Morris, Elmer P. Co. ("Hunter" Illuminated), 72 Trinity pl, New York

Rawson & Evans Co., 151 W Jackson boul, Chicago, Ill.

Royal Enameled & Stamping Works, Des Plaines, Ill.

U. S. Electric Signal Co. ("Henderson" Illuminated), West Newton, Mass.
Weber Illuminating Sign Co., Reading, Pa.

Western Sand Blast Mfg. Co., 73 W Jackson boul, Chicago, Ill.

Signs (Cardboard)

Enameled Steel Sign Co. (Waterproof), 12 State, Chicago, Ill.

Signs (Celluloid)

Bastian Bros., Rochester, N. Y.
Beach, H. D. Co., Cohocton, O.
Ehrman Mfg. Co., 854 Old So. bldg, Boston, Mass.
Meek, The, Co., Cohocton, O.
Whitehead & Hoag Co., Newark, N. J.

Signs (Chipped Glass)

Rawson & Evans Co. (In Silver & Gold), 151-153 Wash'n boul, Chicago, Ill.
Suess Ornamental Glass Co., 750 Throop, Chicago, Ill.

Signs (Cloth)

Acme Sign Printing & Mfg. Co., Dayton, O.
Bemis Bros. Bag Co., St. Louis, Mo.
Cleveland-Akron Bag Co., Cleveland, O.
Eastern Printing & Mfg. Co., Dayton, O.
Silver Springs Mfg. Co., Silver Springs, N. Y.

Signs (Electric Illuminated)

A. & W. Electric Sign Co. ("A. & W."), Cleveland, O.
Advertising Mirrorgraph Co., 105 Liberty, Brooklyn, N. Y.

American Electric Sign Co., Boston, Mass.
American Endoscopic Co., Providence, R. I.
Art Sign Co., Syracuse, N. Y.
Betts & Betts, 330 B'way, New York
Bofinger Bros., 146 E 42d, New York
Bogenberger & Goessel, Milwaukee, Wis.
Brilliant Mfg. Co., 1035 Ridge av, Phila., Pa.
Central Construction Co., Oshkosh, Wis.
Chase Electric Co. ("Chaseco"), 102 Franklin, Chicago, Ill.

Chris Sign & Wall Paper Co., Seattle, Wash.
Colonial Sign & Insulator Co., Akron, O.
Common Sense Novelty Co., 215 S Clinton, Daves Mfg. Co., Pittsburgh, Pa. Chicago, Ill.
De Mun Sign Co., Wilkes-Barre, Pa.
Economy Electric Co., Marion, Ind.
Edison Decorative & Miniature Lamp Dept., Harrison, N. J.

Electric Carriage Call Co. (Changeable & Permanent), 173 Christopher, New York
Electric Motor & Equipment Co. (Talking Sign), Newark, N. J.
Electro-Ad Co. ("Newest," "Phelps"), Detroit, Mich.

Empire Electric Sign Co., 162 E 118th, New York

Federal Electric Co., 124 W Lake, Chicago, Ill.
Federal Sign System (Electric), 317 W 42d, New York

FRINK, I. P., 551 Pearl, New York. (See adv. index, end of book)

Globe Electric Co., 419 W 42d, New York
Haller Sign Works ("Luna"), 319 Clinton, Chicago, Ill.

Hinsdill-Pickering Electric Co., Troy, N. Y.
Jackson, H. C., Electric Co. ("La Luciole"), Parkersburg, W. Va.

Klantz, A. & Co., 63 W. Jackson boul, Chicago, Ill.

Lindstrom-Smith Co. ("Flash-I-Do"), 253 La Salle, Chicago, Ill.

Martin Bradley Co., San Francisco, Cal.
Marx Zero Sign Works ("Zero"), 160 Superior, Chicago, Ill.

Metropolitan Engineering Co., 124 W 42d, New York
Moore Electrical Co., Newark, N. J.

National Electric Sign Co., 113 Nassau, New York

Niagara Electric Sign Co., Buffalo, N. Y.
Novelty Sign Co., San Francisco, Cal.

Ohio Novelty Sign & Electric Co., Marion, O.
Opal Sign Co., 344 Broome, New York

Pacific Electric Co. ("Espersen"), La Crosse, Pa.
Pause, P. & Co., 81 Erie, Chicago, Ill.

Portland Electric Sign Works, Portland, Ore.
Pyro Sign Co., 1 Madison av, New York

R. R. Sign Co., Dayton, O.
Rawson & Evans, 151 Washington boul, Chicago, Ill.

Reynolds Electric Flasher Mfg. Co. ("Reco" Flashers), 191 5th av, Chicago, Ill.

Rice, Geo. H. Co., Flatbush & 5th avs, Brooklyn, N. Y.

Solar Electric Co., 161 S Canal, Chicago, Ill.
Strauss & Co., 1574 B'way, New York

Suess Ornamental Glass Co., 192 Washington boul, Chicago, Ill.

Tidey, S. E. ("Tidey"), Newark, N. J.
Toledo Electric Sign Co., Toledo, O.

Tripp & Co., 111 5th av, Chicago, Ill.
Universal Elec. Stage Lighting Co. ("Kliegl"), 1393 B'way, New York

Universal Mfg. Co., 206 Illinois, Chicago, Ill.
Valentine Electric Sign Co., Atlantic City, N. J.

Weber Illuminating Sign Co., Reading, Pa.
Western Display Co. ("Reflectic"), St. Paul, Minn.

Western Sand Blast Mfg. Co., 73 Jackson boul, Chicago, Ill.

Western Stage Appliance Co., Oakland, Cal.
Yoerger, P. F. Sign Co., Columbus, O.

*Signs (Emblematic)

JONES, THOS. W., 22 Burling sl. New York. (See adv. index, end of book)

*Signs (Enameled)

NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Signs (Enameled Iron)

Baltimore Enamel & Novelty Co., Allen & Clement, Baltimore, Md.
BURDICK, JNO. R. (Steel), 77 Dear- born, Chicago, Ill. (See adv. index, end of book)
Caeser Bros., Long Island City, N. Y.
Climax Supply Co. ("Climax" Sign Posts & Signs), Marquette bldg, Chicago, Ill.

Enameled Steel Sign Co. (Steel), 12 State, Chicago, Ill.
Ingram & Richardson Mfg. Co., Beaver Falls, Pa.
Leonard, Wark Electric Co., Bronxville, N. Y.
Nelke, L. D. (Also Tin, etc.), 29 Murray, New York
Toledo Metal Sign Co., 222 Craig, Toledo, O.

Signs (Enameled Iron Station)

Baltimore Enamel & Novelty Co., c Allen & Cement, Baltimore, Md.

Signs (Enameled Steel)

(See also Signs, Car)

Baltimore Enamel & Novelty Co., Baltimore, Md.

Brilliant Mfg. Co., 1035 Ridge av, Phila., Pa.
Burdick Enamel Sign Co., 52 State, Chicago, Ill.

Dawes Mfg. Co., Pittsburgh, Pa.
Electric Motor & Equipment Co. ("Ironclad"), Newark, N. J.

Enameled Steel Sign Co., 12 State, Chicago, Ill.
Ingraham-Richardson Mfg. Co., Beaver Falls, Pa.
National Enamelling Co., Cincinnati, O.

Signs (Etched Metal)

Ahhott, W. H., 1263 B'way, New York
American Name Plate & Mfg. Co., 226 Klnzle, Chicago, Ill.

Dayton Stencil Works, Dayton, Ohio
Electro Chemical Engraving Co. (Inc.), 450 19th, Brooklyn, N. Y.

Haeusermann Metal Mfg Co., 242 E. 122d, New York
Salo Art Metal Co., 19 Collier, Binghamton, N. Y.

Signs (Fence Board)

Silver Springs Mfg. Co., Silver Springs, N. Y.

Signs (Glass)

Ashury Glass Sign Co., 43 John, New York
Decorative Art Co., 37 N 3d, Columbus, O.

Denzi & Phillips, 24 Dey, New York
Empire Ornamental Glass Co., 42 Renwick, New York

Herrlein & Henrich Co. (All kinds for All Purposes), 97 Hudson, New York
Jones Decorative Glass Co., Hudson av & Concord, Brooklyn, N. Y.

Mansfield & Co., 158 Chambers, New York
National Sheet Metal Co., Peru, Ill.

Nelke, L. D., 29 Murray, New York
Rawson & Evans Co., 151 Washington boul, Chicago, Ill.

Tweed & Rau Co., 208 W Madison, Chicago, Ill.

Western Sand Blast Mfg. Co., 21st & Marshall boul, Chicago, Ill.

Wunder, J. & Co., 192 Wash'n, Chicago, Ill.

Signs (Glass Advertising)

Rawson & Evans Co., 151 Washington boul, Chicago, Ill.

Signs (Illuminated Car Destination)

Sterling-Meaker Co., Newark, N. J.

Signs (Illuminating)

Hughes, Thomas, 51 E 9th, New York

Signs (Litho. Metal)

Beach, H. D. Co., Cohocton, O.
Kaufman & Strauss, 124 5th av, New York
Meek Co., The, Cohocton, O.
New York Metal Ceiling Co., 537 W 24th, New York

Niagara Litho. Co., Buffalo, N. Y.
Sentenne & Green, 150 Nassau, New York
Shonk, Chas. W., 253 B'way, New York

Signs (Metal, Etc.)

American Can Co., 11 B'way, New York
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)

Chicago Metal Signs Co. (Of All Kinds of Metals), 56 W Van Buren, Chicago, Ill.

Enameled Steel Sign Co., 12 State, Chicago, Ill.
Ingraham-Richardson Mfg. Co. (Blue & White Enameled Iron Street Names, etc.), Beaver Falls, Pa.

JONES, TREVOR F. & CO., 374 W
B'way, New York. (See adv. index, end of book)

Trevor F. Jones. Henry H. Jones.
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Manufacturers of
Metal Signs, Plates and Memorial Tablets,
Bulletin Signs for Buildings, Raised Letter,
Bronze, Brass, Silver, Engraved, etc.
374 West Broadway, New York City.
Tel. 4759 Spring.

Matthews, Jas. H. & Co. (Brass, Bronze, Copper, etc.), 306 Wood, Pittsburg, Pa.
MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)
NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See
adv. index, end of book)
St. Paul Roofing, Cornice & Ornament Co., St.
Paul, Minn.
Salo Art Metal Co. (Metal Etched, Engraved
& Applied Letters), 19 Collier, Binghamton,
N. Y.
Silver Springs Mfg. Co., Silver Springs, N. Y.
STANDARD CO., Railway Exchange
bldg, Chicago, Ill. (See adv. index, end
of book)
Toledo Metal Sign Co. (Aluminum & Brass,
Enameled, Japanned, Tin, etc.), 222 Craig,
Toledo, O.
TYLER, W. S. CO., Cleveland, O., & 11
B'way, New York. (See adv. index &
branch offices, end of book)
Van Hoven, John H. H. (Brass & Silver), 42
E 9th, New York
Western Sand Blast Mfg. Co., 21st & Mar-
shall boul., Chicago, Ill.
WISCONSIN IRON & WIRE WORKS, 190
E Water, Milwaukee, Wis. (See adv. in-
dex, end of book)

Signs (Muslin)

Acme Sign Printing Co., Dayton, O.
American Mfg. Concern, Jamestown, N. Y.
Bemis Bros. Bag Co., St. Louis, Mo.
Cleveland-Akron Bag Co., Cleveland, O.
Eastern Printing & Mfg. Co., Dayton, O.
Geraghty & Co., 61 La Salle, Chicago, Ill.
Globe Sign & Poster Co., Akron, O.
Nelke, L. D. (also Oilcloth), 29 Murray, New
York
Parker & Granville, Ithaca, N. Y.
Silver Springs Mfg. Co., Silver Springs, N. Y.
Zero Marx Sign Works, 160 E Superior, Chi-
cago, Ill.

Signs (Oilcloth)

(See Signs, Cloth)

Signs (Paper)

Silver Springs Mfg. Co., Silver Springs, N. Y.

Signs (Raised Letter Metal)

Hanson, C. H., 44 Clark, Chicago, Ill.

Signs (Rope Fibre)

Globe Sign & Poster Co. (And Clothline), Ak-
ron, O.

Signs (Street)

American Sign Co. (Four Way, etc.), Clyde, O.
American Steel House Co. (Steel), 796 11th
av, New York
Baltimore Enamel & Novelty Co. (Enameled
Iron Street Names), Allen & Clement,
Baltimore, Md.
Enameled Steel Sign Co. (Street Name), 12
State, Chicago, Ill.
Ingraham-Richardson Mfg. Co. (Blue & White
Enameled Iron, Street Names, etc.), Beaver
Falls, Pa.
NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See
adv. index, end of book)
Roberts, D. E., Racine, Wis.

Signs (Talking)

Electric Carriage Call Co., 173 Christopher, New
York
Electric Motor & Equipment Co., Newark, N.J.

Signs (Translucent)

Translucent Window Sign Co., 118 W. 23d, New
York

Signs (Wire)

Adams Steel & Wire Works, Joliet, Ill.
BIGELOW, CHENEY WIRE WORKS
(For Roofs), Springfield, Mass. (See adv.
index, end of book)
BOLLES, J. E. IRON & WIRE WORKS
Detroit, Mich. (See adv. index, end of book)
Buffalo Wire Works Co., 316 Terrace, Buffalo,
New York
CINCINNATI MFG. CO., 1243 W 6th, Cin-
cinnati, O. (See adv. index, end of book)
COLUMBIA IRON & WIRE WORKS
Co., Canton, O. (See adv. index, end of book)
ESTEY WIRE WORKS CO., 59 Fulton, New
York. (See adv. index, end of book)
Kokomo Fence Machine Co., Kokomo, Ind.
MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)
STANDARD CO., Railway Exchange
bldg, Chicago, Ill. (See adv. index, end
of book)
TAYLOR & DEAN, Penn av & 25th,
Pittsburg, Pa. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O., & 11
B'way, New York. (See adv. index &
branch offices, end of book)
WISCONSIN IRON & WIRE WORKS, 190
E Water, Milwaukee, Wis. (See adv. in-
dex, end of book)

Signs (Wood)

Nelke, L. D. (Painted), 29 Murray, New York
Silver Springs Mfg. Co., Silver Springs, N. Y.

Signs & Letters (Prismatic Metal)

Herrlein & Henrich Co., 97 Hudson, New York

Silex

Bridgeport Wood Finishing Co. (For Soap-
makers, etc.), New Milford, Conn.
Nevins, Sam'l Co., 109 S. 2d, Phila., Pa.
O'Connell Lime & Marble Dust Co. (Marble-
Flour for Soapmakers, etc.), Tuckahoe,
N. Y.
Selling Co. (Inc.), 225 5th av, New York
Whittaker, W. H., 245 Front, New York

Silica Mfrs.

Atlas Mineral & Machine Co., Lincoln, N. J.
Babcock, H. H., Mystic, Conn.
Bridgeport Wood Finishing Co. ("Lithowite"),
New Milford, Conn.
Central Silica Co., Fortville, Ind.
Davidson, Jas. H. (Inc.), 239 Front, New York
Grasselli Chemical Co., Cleveland, O., & 63
Wall, New York
Hauna & Andrus Mfg. Co. ("F. S. A." & Star
White"), Chicago, Ill.
Hoosac Co., North Adams, Mass.
Nevins, Samuel Co., 109 S 2d, Phila., Pa.
Ohio Marble Co., Piqua, O.
Salomon, L. A. & Bro., 216 Pearl, New York.

Silicate of Soda

General Chemical Co., 135 Adams, Chicago,
Ill.; Ship from Hegewisch, Ill.
Graselli Chemical Co., The Arcade, Cleveland,
O., & 63 Wall, New York
Mechling Bros. Mfg. Co., Phila., Pa.
Philadelphia Quartz Co., 121 S 3d, Phila., Pa.
St. Louis Chemical Co., St. Louis, Mich.
Thomsen Chemical Co., Baltimore, Md.

Silicate-Rock

Silicate Mfg. Co., 24 S 7th, Phila., Pa.

*Silico-Manganese

LEAVITT, C. W. & CO., 30 Church,
New York. (See adv. index, end of book)

Silico-Spiegel

Dana & Co., 32 B'way, New York
LEAVITT, C. W. & CO., 30 Church,
New York. (See adv. index, end of book)

*Silicon-Calcium-Aluminum

LEAVITT, C. W. & CO., 30 Church,
New York. (See adv. index, end of book)

*Silicon-Chromium

LEAVITT, C. W. & CO., 30 Church,
New York. (See adv. index, end of book)

Silicon-Copper

Electric Smelting & Aluminum Co. ("Cowles")
Lockport, N. Y.
LEAVITT, C. W. & CO., 30 Church,
New York. (See adv. index, end of book)

*Silicon-Manganese-Aluminum

LEAVITT, C. W. & CO., 30 Church,
New York. (See adv. index, end of book)

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BADGER, E. B. & SONS CO., 75 Pitts,
Boston, Mass. (See adv. index, end of book)

Silos

BALTIMORE COOPERAGE CO., THE,
cor. Hanover Creek, Baltimore, Md. (See
adv. index, end of book)

Bushnell Tank Works, Bushnell, Ill.
Duplex Mfg. Co., Superior, Wisc.
Farmers Handy Wagon Co. (All Steel Frames),
Saginaw, Mich.

Harder Mfg. Co., Cobleskill, N. Y.
Harrison, W. R. & Co., Massillon, O.
Helfer-Aller Co., Napoleon, O.
Hopkins & Williams Co., Newton, N. J.
Ideal Motor Co., Lansing, Mich.
Indiana Silo Co., Anderson, Ind.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
Maud S. Windmill & Pump Co., Lansing, Mich.
Peck, S. H., East Aurora, N. Y.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.
Ross, E. W. Co., Springfield, O.
Severance Tank & Silo Co., Lansing, Mich.
Stoddard Mfg. Co., Rutland, Vt.
Smalley Mfg. Co., Manitowoc, Wis.
STEARNS, A. T. LUMBER CO., Bos-
ton, Mass. (See adv. index, end of book)
Stevens Tank & Tower Co., Auburn, Me.
Van Slyke & Co. (Round), North Tonawanda,
N. Y.

*Single Phase Railway System

WESTINGHOUSE ELECTRIC & MFG.
Co., Union Bank bldg, Pittsburg, Pa. (See
adv. index & branch offices, end of book)

Singletrees, Doubletrees & Whif- fletrees

Adams, E. B. & Son, Racine, Wis.
Automatic Yoke Co. (Single Trees, etc.), In-
dianapolis, Ind.
Avery, B. F. & Son, Louisville, Ky.
Campbell & Dunn Mfg. Co., Tullahoma, Tenn.
Collins, Hilton, Louisville, Ky.
Empire Plow Co. (Steel), Cleveland, O.
Fee-Crayton Hardwood Lumber Co., Little
Rock, Ark.
Harris Mfg. Co. (Singletrees), Johnson City,
Tenn.
Hartwell Bros. (Singletrees), Chicago Heights,
Ill.
Howland Mfg. Co. (Whiffletrees, etc.), Pontiac,
Mich.
Lack Single Tree Co., Paducah, Ky.
Missouri Malleable Iron Co. (Singletrees &
Doubletrees), E. St. Louis, Ill.
Pioneer Pole & Shaft Co., Piqua, O.
Pittsburg Tubular Steel Whiffletree Co., Pitts-
burg, Pa.
Racine Malleable & Wrought Iron Co., Racine,
Wis.
Tanner, D. F., Holland, N. Y.
Thornburgh Mfg. Co., Bowling Green, O.
Todd Mfg. Co., New Albany, Ind.
Tower & Sullivan Mfg. Co., Rome, Ga.
Von Behren Mfg. Co., Evansville, Ind.

Singletrees (Hay Hoisting)

Louder Machinery Co., Fairfield, Iowa
Myers, F. E. & Bro., Ashland.
Porter, J. E. Co., Ottawa, Ill.

Sink Backs

Lalance & Grosjean Mfg. Co. (Seamless
Wrought Steel), 299 B'way, New York

*Sinks (Copper & German Silver)

BADGER, E. B. & SONS CO., 75 Pitts,
Boston, Mass. (See adv. index, end of book)

*Sinks or Water Closet Ranges (Privy)

CENTRAL FOUNDRY CO., 37 Wall,
New York. (See adv. index, end of book)

Sinks (Porcelain)

(See Bath Tubs, Porcelain)

Sinks & Trays

(See also Bath Tubs, Various Kinds; also Laun-
dry Tubs, Various Kinds)

Alberene Stone Co. (Soapstone), 223 E 23d,
New York, & 260 N Clinton, Chicago, Ill.
Allen's, S. Sons (Slate), Fair Haven, Vt.
American Porcelain Co. (Porcelain Sinks), New
Brighton, Pa.
Auld & Conger (Soapstone), 262 Prospect,
Cleveland, O.
Barber Mfg. Co. (Cast Iron, White Enameled,
etc.), Ashtabula, O.
Blacklock Foundry Co. (Cast Iron, Stamped),
S Pittsburg, Tenn.
Brian Pottery Co. (Porcelain), Trenton, N. J.
Brig. Henry (White Porcelain), 56 Wallabout,
Brooklyn, N. Y.
Cabill Iron Works ("Southern Beauty" En-
ameled Iron), Chattanooga, Tenn.
CENTRAL FOUNDRY CO., (Cast
Iron), 37 Wall, New York. (See adv.
index, end of book)
Day-Ward Co. (Enameled Iron), Warren, O.
Glenn Mfg. Co. (Kitchen & Slop Sinks), St.
Charles, Ill.
Graham, Charles Chemical Pottery Wks.
(White Porcelain & Brown Vitrified), 936
Metropolitan av., Brooklyn, N. Y.
Hercules Iron & Supply Co. (Cast Iron), An-
niston, Ala., & 427 Commercial, Boston,
Mass.
Horner Sanitary Mfg. Co., 121 & 123 N 6th,
Philadelphia, Pa.
Humphreys Mfg. Co. (Cast Iron Porcelain
Enameled), Mansfield, O.
Illinois Marble Co. (Slate), Edwardsville, Ill.
Iron City Sanitary Mfg. Co. (Enameled Iron),
18 Wood, Pittsburg, Pa.
Iron Clad Mfg. Co. (Sheet Steel), 204 Varet
Brooklyn, N. Y.

Kilbourne & Jacobs Mfg. Co. (Wrought
Steel), Columbus, O.

Kohler, J. M. Sons Co. (Enameled Iron),
Sheboygan, Wis.

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

Lalance & Grosjean Mfg. Co. (Seamless
Wrought Steel, "L. & G."), 299 B'way, New
York

Limberg Foundry & Enameling Wks. (Enam-
eled Iron), Florence Rd. & Symmes, Cin-
cinnati, O.

McCrum-Howell Co. (Enameled Iron), 103
Park av, New York

McVay & Walker (Enameled), Braddock, Pa.
Maddock, Thomas Sons Co. (Earthenware),
Trenton, N. J.

Meadow Brook Slate Co. (Slate Sinks), Slat-
ington, Pa.

Minns Sink & Specialty Co. (Sinks & Tubs
Combined), 349 Court, Brooklyn, N. Y.

Moline Pump Co. (Cast Iron), Moline, Ill.
Monson Consolidated Slate Co. (Slate), Bath,
Me.

Mott, J. L., Iron Works (Porcelain & Iron
Enameled), 118 5th av, New York

National Sanitary Mfg. Co. (Enameled Iron),
Salem, O.

National Soapstone Co. (Soapstone Sinks &
Urinals), 385 1st av., New York

New York Slate Works (Slate), 493 E 138th,
New York

Norcross Co. (Euclid Stone), Cleveland, O.
Northwestern Foundry & Supply Co. (Cast
Iron Slop Sinks), Orleans nr Grand boul,
Detroit, Mich.

Pertli Amboy Ceramic Co. (Ceramic), Perth Am-
boy, N. J.

Phoenix Slate Co. (Slate), Windgap, Pa.
Ronalds & Johnson Co. (Copper), 54 Cliff, New
York

Rumsey & Co. (Ltd.) (Cast Iron), Seneca
Falls, N. Y.

Scotch Hill Slate Co. (Slate), Fair Haven, Vt.
Bessemer bldg., Pittsburg, Pa.

Piedmont Soapstone Co. (Soapstone), 55 Con-
gress, Boston, Mass., Works, Abestine, Va.

Standard Sanitary Mfg. Co. (Enameled Iron),
Pittsburg, Pa.

Steiger Terra Cotta & Pottery Wks. (Glazed
Clay), San Francisco, Cal.

STEIN, HENRY (Mfr. Agt.) (Enamel-
ed Iron), 48 Cliff, New York

Swett, A. L. Iron Works (Cast Iron), Medina,
N. Y.

Trageser's, Jno. Steam Copper Works (Copper),
447 W 26th, New York

Trenton Potteries Co. (Earthenware), Trenton,
N. J.

United States Sanitary Mfg. Co. (Enameled
Iron), Arrott bldg, Pittsburg, Pa.

Walls, Owen & Stambach Co. (Soapstone), 11th
& Ridge av, Phila., Pa.

Weiskittle, A. & Son, Aliceanna & Washington,
Baltimore, Md.

Wheeling Enameled Iron Co. (Enameled Iron),
Wheeling, W. Va.

Wolff, L. Mfg. Co. (Cast Iron, Steel, Porce-
lain Lined, Grey, Enameled, Slate & Soap-
stone), 117 W Lake, Chicago, Ill., & Den-
ver, Colo.



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*Sirens for Fog, Fire & Factory Signals

BROWN, A. & F. CO. ("F. Brown's" Self-Acting), 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Sirens (Steam)

BROWN, A. & F. CO. ("F. Brown's" Self-Acting Fog, Fire & Factory Signals), 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

NATIONAL GAUGE CO. 168 Sth. Brooklyn, N. Y. (See adv. index, end of book)

Schaeffer & Bulenberg Mfg. Co., 963 Kent av. Brooklyn, N. Y.

Size

(See also Paste)

American Type Founders Co. (Gold), 6 Duane, New York

Ault & Wiborg Co. (Gold), Cincinnati, O.

Babcock, Jno. & Co. (Gold), 86 Western av. Boston, Mass.

Calumet Mfg. Co., Adams, N. Y.

Carolina Sizing Co., Charlotte, N. C.

Cleveland Varnish Co. (Gold), Cleveland, O.

Devoe, F. W. & C. T. Reynolds Co. (Gold), 103 Fulton, New York

Diamond Paste Co. (Vegetable), Albany, N. Y.

Fox, M. E. & Co. (Paperhangers), 136th & Rider av. New York

Gillespie, L. C. & Sons (Gold), 6 Fletcher, Holt, J. & Co., Lowell, Mass.

Hoyt, Arthur S., 90 W. B'way, New York

Keystone Paste Co., 232 N. Water, Phila., Pa.

Longman & Martinez (Gold), 207 Pearl, New York

McMeekan, D. Mfg. Co. (Paper), 1070 Pacific, Brooklyn, N. Y.

Mayer & Loewenstein (Gold), 170 Fulton, New York

Morrill, Geo. H. Co. (Gold), 155 Pearl, Boston, Mass.

Paper Makers Chemical Co. (Rosin, Combination), Easton, Pa.

Pierce, F. O. Co. (Gold), 170 Fulton, New York

Salomon, L. A. & Bro. (Gold), 216 Pearl, New York

Sisk, R. J. (Paperhangers & Painters), New London, Conn.

Waxine Size Co., Fall River, Mass.

Well, S. & Sons, 194 Franklin, New York

Wiggins, H. B. Sons Co., Bloomfield, N. J.

Sizers (Wood Turners')

Kraeuter & Co., Newark, N. J.

Sizing (Decorators')

Manhattan Color Works ("Manhattan" Alum Size), 197 Amsterdam av. New York

*Sizing for Whitewash

GROSCHKE, BRUNO & CO. 13 Jones Lane, New York. (See adv. index, end of book)

Skate Mfrs.

Barney & Berry (Ice), Springfield, Mass.

Brown Spring Ice Skate Co. (Ice), Webster City, Ia.

Brown Spring Ice Skate Co. (Ice), Webster City, Iowa

Chicago Roller Skate Co. (Roller, 3 Wheels), 65 S. Canal, Chicago, Ill.

Cycle Skate & Sporting Goods Co. (Pneumatic Roller), 37 Park, New York

Henley, M. C. (Ice & Roller), Richmond, Ind.

Lowentraut, R. Mfg. Co. ("U. S." Ice), Newark, N. J.

Martin Skate Co. (Folding), 208 Camden, Boston, Mass.

Raymond Skate Co. (Ice), Charlestown, Boston, Mass.

Richardson Ball Bearing Skate Co. (Pneumatic Roller), 501 N. Wells, Chicago, Ill.

Schoverling, Daly & Gales (Ice), 302 B'way, New York

Union Furnace Mfg. Co. (Ice), Union Furnace, Pa.

Union Hardware Co. (Ice & Roller), Torrington, Conn.

Winslow, Samuel Skate Mfg. Co. (Ice & Roller), Worcester, Mass.

Skins (Wagon)

American Skin & Foundry Co. ("Rocky Mountain" Steel, "Sandage," "Columbus," "Red Label," "Anderson Leader" Wrought Steel, "D. V.," "Indiana" Cast, "Brown's," "Hoosier"), Racine, Wis.

Illinois Iron & Bolt Co. ("D. V. & Co.," "I. I. & B. Co.," "Dundee" Cast Iron, "Wright" Sand Arrester, "Columbia" Steel, etc.), Carpentersville, Ill.

Schreyer, G. (Steel), 210 W. Broad, Columbus, Ohio

Southern Skel & Foundry Co. (Steel & Cast), Chattanooga, Tenn.

Skewers (Steel Meat)

Brewer Bros., 614 Filbert, Phila., Pa.

Central Stamping Co., 174 Fulton, New York

Hamblin & Russell Mfg. Co., Worcester, Mass.

Landers, Frary & Clark, New Britain, Conn.

McVoy Tub, Pail & Package Co., Minneapolis, Minn.

Skidders (Log)

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

Lindsey Wagon Co. (Self-Loading), Laurel, Miss.

RUSSELL WHEEL & FOUNDRY CO. (Steam), Detroit, Mich. (See adv. index, end of book)

Skids

Anderson & Sons Co., Detroit, Mich.

Boston & Lockport Block Co., Boston, Mass.

Branchville Ice Tool Wks., Branchville, Conn.

Diamond Iron Works, Minneapolis, Minn.

Fairbanks & Co., Broome & Lafayette, New York

Farmer's Handy Wagon Co. (Gasoline Engine), Saginaw, Mich.

Howe Scale Co., 1315 Wabash av. Chicago, Ill.

Kilbourne & Jacobs Mfg. Co., Columbus, O.

Lansing Wheelbarrow Co., Lansing, Mich.

New York Wheelbarrow Co., 180 West, New York

Western Wheelbarrow & Mfg. Co., Lansing, Mich.

Zering, H. Mfg. Co., Cincinnati, O.

Skimmers (Boiler)

(See Cleaners, Skimmers, Boiler)

Skips (Mining)

ALLIS-CHALMERS CO. (Dumping & Hoisting), Milwaukee, Wis. (See adv. index & branch offices, end of book)

Chalmers & Williams (Vertical Self-Dumping), Commercial Nat'l Bank bldg. Chicago, Ill.

Globe Iron Works (Inc.) (Ore & Water), Stockton, Cal.

Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.

KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lake Shore Engine Works, Marquette, Mich.

Leyner, J. Geo., Engineering Works Co., Littleton, Colo.

Power & Mining Machinery Co. (Ore & Water), Cudahy, Wis.

Schalkenbach & Budke, Jersey City, N. J.

Traylor Engineering Co., 2 Rector, New York; Works, Ailentown, Pa.

Truax Mfg. Co., Denver, Colo.

Weilmau-Seaver-Morgan Co., Cleveland, O.

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AMERICAN HOIST & DERRICK CO., St. Paul, Minn. (See adv. index & branch offices, end of book)

Kilbourne & Jacobs Mfg. Co. (Steel), Columbus, O.

White, Robt. Engineering Wks., ft. of Columbia, Brooklyn, N. Y.

Williams, G. H. Co., 1513 Rockefeller bldg, Cleveland, O.

*Skylight Lift

BICKELHAUPT, GEO. SKYLIGHT Works, 243 W. 47th, New York. (See adv. index, end of book)

Skylight Ventilating Apparatus

(See also Ventilating Apparatus for Greenhouses & Buildings)

American Skylight & Iron Works, 221 Randolph, Jersey City, N. J.

DROUVE, G. CO. ("Lovell") 40 Tulip, Bridgeport, Conn., & 40 Dearborn, Chicago, Ill. (See adv. index, end of book)

Enterprise Mfg. Co. (Automatic), Newburgh, New York

Howard, S. I. (Automatic Lift), Worcester, Mass.

Lyster Sheet Metal Co. ("Lyster"), 1216 Filbert, Phila., Pa.

National Skylight & Ventilator Co., Rochester, N. Y.

National Ventilating Co., 1 Madison av. New York

Ormsby, E. A., 10 Thacher, Boston, Mass.

Quaker City Machine Co. ("The Evans"), Richmond, Ind.

Weathered Co., Orient & West End avs, Jersey City, N. J.

*Skylight Wire Glass

MISSISSIPPI WIRE GLASS CO., 115 B'way, New York, & St. Louis, Mo. (See adv. index, end of book)

Skylights

(See also Cornices, Galvanized iron, Etc.; also Roofers & Tanners)

ALABAMA.

BIRMINGHAM—Spiro Hardware Co. Wheelock, Geo. F. Co.

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Forderer Cornice Works, 269 Petrero av
Jackson, P. H. Co., 228 1st

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Kessler, Fred., 2708 Larimer 1809 Blake
Penn Metal Ceiling & Roofing Co., 3060
Wahlgren, Jno. A., 1933 Curtis Newton

CONNECTICUT.

BRIDGEPORT—Bridgeport Cornice Works,
227 John

DROUVE, G. CO. ("Anti-Pluvius"), 40
Tulip. (See adv. index, end of book.)

Hurley, Jas. J., 606 E Main
Kirk, Wm. P. Co., 360 Fairfield av
Mills, L. H., 32 Middle
Reilly, J., Jr., 283 State
Schwing, John Corp., 863 Wood av
HARTFORD—Beseman & Bostwick, 44 Ann
Lurie, Aaron, 172 Allyn
Stelling, Frederick W., 93 Franklin
MERIDEN—Grissold, Richmond & Glock Co.
NEW HAVEN—Bradley Co., 158 Orange
Buckingham, Routh Co., 151 Court
Dorman & Cngell, 243 Congress av
Rourke Bros. Co., 834 Grand av.
WATERBURY—Barlow Bros. Co., 63 Grand
Disley, William T. (Inc.), 276 Bank
Gill, John M., 256 N Main
Hardwick, O. A., 13 Bishop
Weyand, Henry Co. (Inc.), 16 Jefferson

DELAWARE.

WILMINGTON—Wilmington Cornice Works

DISTRICT OF COLUMBIA.

WASHINGTON—Beck, Jos. F., 425 K, n w
Gielas, H. J., 113 4½ SW
Hulse, Edgar J., 321 13th, n w
Mathy Co., 1918 Pennsylvania av, n w
Stockstill, D. W. & Co., 211 12th, n w
Whyte, W. M., 306 13th, n w
Wolfstener, O. L. Co., 1315 W, n w

GEORGIA.

ATLANTA—Dowman-Dozier Mfg. Co., 20 Trin-
Warlick Sheet Metal Mfg. Co. ity av.

ILLINOIS.

BRADLEY—Watson, Jas. H. Co. (Inc.)
CHICAGO—AMERICAN LUXFER PRISM
Co., Heyworth bldg. (See adv. index,
end of book)

Anderson, Lars, 465 Grand av
Armbruster, Louis, 767 Lincoln av
Bremcr, Henry F., 1136 W 13th
Burkhardt, G. Mfg. Co., 940 N Clark
CHICAGO SIDEWALK LIGHT CO.,
103 Reaper bik. (See adv. index, end of book)

Clasen, E. L. & Co., 3114 Shields av
Dauchy Iron Works (Iron Frame), 84 Illi-
Erickson, Jno. T., 4430 La Salle nois
Farwell Cornice Co., 1304 Southport av
Griffith Cornice Works, 2441 Wabash av
Gross, Geo. M., 1445 State
Illinois Roofing & Cornice Co., 329 W Kin-
Jaeger, Fred. J. Co., 571 W 17th zie
Jennings, M. L. Co., 57 W Jackson boul
Jensen, C. E., 1218 W North av
Knisely Bros., 28th pl & 5th av
KNISELY, H. C. CO., 273 S Canal.

(See adv. index, end of book)
Krefting, Edw., 117 W Van Buren
Kuder, C. V. Co., 5315 Wentworth av
Lang, Wm., 300 Warsaw av
Liddle, Robert, 2608 State
McFARLAND, J. C. & CO., 27th &
5th av. (See adv. index, end of book)

Mellroy Cornice Works, 1519 State
Miller, Jas. A. & Bro., 129 S Clinton
Noyes, E. A., 584 W Lake
Perkinson & Brown, 113 N Lincoln
Peter, Jno., 632 N Wood
Purdy & Canble, 800 W 63d
Rysdon, E. A. & Co., 627 W 41st
Slavik & Co., 425 Blue Island av
Spless, Edw., 954 N Clark
Universal Cornice & Roofing Co., 970 S
Troy

Voigtmann, Frank Cornice Co., 91 Indiana
Wagner Bros., 1350 Diversey boul
Warner, Chas. W., 93 W Harrison
Yeldham, H. G. (Metal), 269 W Van Buren
GALESBURG—Galesburg Cornice Works
Willis Mfg. Co.

KANKAKEE—Reuter, Henry
LA SALLE—Camenish, G. S.
MOLINE—Willis & Sons Co.

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Hunter & Strehlow, 114 S Adams ington
Johnson, Chas. Hdw. Co., 2023 S Adams
Kellerstrass, Robert
Meyer, F. & Bro. Co., 305 Gallatin
Peoria Roofing Co., Maple & Forsythe
Wilson, R. L. & Co., 3017 S Adams

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Martin, Alfred & Co.

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Robinson, Henson Co.

STERLING—Taylor, F. R. & Co.
STREATOR—Powers & Williams

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Mesker, Geo. L. & Co.

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Welch, J. H. & Sons, 190 Calhoun

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Gardner, Jos., 37 Kentucky av ate
Hawkins, Rollyn Co.
Humphreys & Sargent, 124 E Court
Indianapolis Corrugating Co.

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SOUTH BEND—Lanber, J. C. & Co.

TERRE HAUTE—Smith's, C. C. Sons Co.
VINCENNES—Vincennes Galvanized Works

IOWA.

CEDAR RAPIDS—Cedar Rapids Cornice
Grissel, J. P. Cornice Co. Works

DAVENPORT—Hipwell, Chas. G.
Reimers, P. A.

DES MOINES—Fischer, John
Krtz, L. H. Co.

St. John & Barquist Co.
DUBUQUE—Klaner Mfg. Co.

IOWA CITY—Maresh Bros.
OSKALOOSA—Wells, Porter & Stump

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ATCHISON—Walcott, H. C.
NEWTON—Bergh, Wm.

TOPEKA—Van Dorp, Louis

KENTUCKY.

COVINGTON—Glaser, Wm. A. Roofing & Cor-
nice Works

LEXINGTON—Bitterman, Edw. & Son

LOUISVILLE—Heartick, E. G., 1308 Preston
Louisville Cornice & Roofing Co., 226
Wagner, J. F. & Sons, 1375 7th 10th

Wulff, W. C. & Co., 603 E Jeff'n
NEWPORT—Rust, Lawrence & Son, 909 Mon-
OWENSBORO—Southern Foundry Co. month

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NEW ORLEANS—Eichorn, Mrs. Ludwig
New Orleans Roofing & Metal Works, 926
Lafayette

MAINE.

LEWISTON—Stetson, J. H. Co.
PORTLAND—Hollivan & Parker, 56 Cross
Hutchinson & Cain, 438½ Fore
Scott, Wm. H. Co., 29 Union

MARYLAND.

BALTIMORE—Banks, Wm. H. & Sons, 405
Druid Hill av

Bartlett, Hayward & Co., Continental bldg
Clifton Cornice & Skylight Works, 427 N
Cotton, Wm. E., 1600 Hartford av High

Fingles, W. A., 1533 Maryland av
Fitzberger, Jno. Metal Cornice Co., 113
Clay

Hetzell, Jno. G. & Son, 225 N Howard
Hicks, Chas. A., 911 3d av, N

Kohlbepp, A., 406 N Howard
Lenderking, P. H., Jr., Dillon & Patuxent
Moore, A. D., 405 Druid Hill av

Northwestern Cornice Works, 1506 Penna av
PRUDEN, C. D. CO. Warner, Bay-
ard & Dock. (See adv. index, end of
book)

Valie & Young, 216 N Calvert
Wilhelm, J. F., 748 Pennsylvania av
Zimmers, A. M., 1808 Frederick av

MASSACHUSETTS.

BOSTON—Ames & Ginty, 101 Tremont
Anderson, C. & Co., 41 Way

BADGER, E. B. & SONS CO., 75 Pitts.
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Boston Cornice & Skylight Co., 43 Bristol
Finkelstein, M., 37 Spring

Forrest, Alfred W., 464 Harrison av
Gulesian, M. H., 16 Waltham

Harrigan, J. & Son, 111 Liverpool
Hicks, S. D. & Son, 17 Bowker

Jeffers, Wm., 77 E Joy
Maguire, W. J., 46 Cornhill

Marley Bros., 1 Wareham
Mayberger, Edw. F., 1 Willow Park

Pempe, Fred'k, 1462 Columbus av
Pempe, Geo. Co., 27 Eustis

Raymond, John B. Co., 48 India
Union Cornice Co., 7½ Appleton

Van Noorden, E. Co., 944 Mass. av
Williams & Poore, 33 Haverhill

CAMBRIDGE—Douglass, Geo., 266 Prospect
Eagle Cornice & Skylight Works

FALL RIVER—Hughes, J. T., 140 3d
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LOWELL—Cushing, Daniel & Co. /

Mack, W. A. Co.
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QUINCY—Angier Millis (Rubber Glass)

SALEM—Eklund, Victor
SPRINGFIELD—Atwater, E. C. & Co., 21
Taylor.

Brnnton, M. J. & Son, 173 Liberty
Hampden Cornice Works, 26 Taylor

Pratt, H. J. & Co., 97 Dwight
Wilson, Robt., 341 Worthington

WORCESTER—McNally, D. E. & Co., 24
Houghton

New England Steel Roofing Co., 274 Main

MICHIGAN.

BATTLE CREEK—Battle Creek Furnace &
Roofing Co.

DETROIT—Berschbach & Herz, 599 Gratiot av
Bertling, Paul C., 344 Grand River av

BURTON, W. J. CO., 161 W Con-
gress. (See adv. index, end of book)

Candler, J. D. & Co., 177 High, E
Clark, James F., 18 Grant ct River av

Detroit Cornice & Slate Co., 145 St. An-
toine

Eagle Cornice & Roofing Co., 959 Fort, W
Hines, H. C. & Co., 354 Humboldt av

Howie Roofing Co., 374 4th av
Hutton, Rob't & Co., 112 Fort, E

Lewis, Henry B., 45 Jos Campau av
Michigan Cornice & Slate Works, 117

Orth, Adam J., 166 Hastings Fort, E
Pudrith & Candler, 76 Brush

Union Sheet Metal Works, 815 Russell
Voigt & Sexauer, 148 Sherman

Wrench, C. E., 200 Reaubien
GRAND RAPIDS—Grand Rapids Sheet Metal
& Roofing Co.

Hopson, W. C. & Co., 25 Campau
Reynolds, H. M. Roofing Co.

Sokup, F. J., 121 S Front
Weatherly Co.

JACKSON—McGraw & Crone
KALAMAZOO—Kalamazoo Cornice Works

SAGINAW—Jacobi, Alexander, 809 Genesee av
VALLEY CORNICE & SLATE CO.,
Ltd., 314-318 N. Hamilton, W S. (See
adv. index, end of book)

MINNESOTA.

DULUTH—Burrell & Harmon, 18 W 1st
Deetz & Co., 108 W 1st

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Helbing, L. R. Co.

Hollihan & Milostan
MINNEAPOLIS—Crittendon Roofing & Mfg.
Co., 918 S 4th

National Roofing & Concrete Co., 1412 S
Nees, Louis & Co., 1207 3d, S 7th

Northwestern Roofing, Cornice & Stamping
Works, 1111 S 5th

Selden Roofing & Mfg. Co., 76 Western av
Stremel Bros. Roofing & Cornice Co., 1215
Washington av, N

ST. PAUL—Griffin & Boehme, 121 University
av

Laubach, Jacob A., 152 Baker
Lefebvre-Deslanriers Roofing & Cornice Co.,
311 Chestnut

Minnesota Roofing & Cornice Works, 135
12th

St. Paul Roofing, Cornice & Ornament Co.
Scribner-Libbey Co., 219 W 5th

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CAPE—GIRARDEAU—Vogel, W. H.
KANSAS CITY—Kornbrodt, Kornice Co., 1811
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 Ceiling Co., 927 W 8th. (See adv. index, end of book)
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 Stoeltzing Stove & Hardware Co., 1605
 Twichell Iron Co., 220 W 3rd Grand av
 Vanstone, Walter, 2910 E 18th
 Wels, Henry Cornice Co., 1811 Wyandotte
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ST. JOSEPH—Seaman & Schuske Metal Works,
 1604 Frederick av
 Wehrman, Wm., 119 N 2d
ST. LOUIS—Blohm, Chas. H., 1120 Emmet
 Gerock Bros. Mfg. Co., 1252 Old Man-
 chester rd
 Hiller & Chambers, 4579 Easton av
 Mesker & Bro., 421 S 6th
 Murphy, E. & Co., 3727 Easton av
 Powers & Boyd Cornice & Roofing Co.
 Von-der-Au & Cluss Mfg. Co., 2404 S Jef-
 ferson av

MONTANA.

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 Mitchell, John, 352 N Main

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CRAWFORD—McNair, Robert
OMAHA—Carter, R. L., 1724 St. Mary's av

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CAMDEN—Metallic Mfg. Co.
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 Hoffman, L. A. & Son
HOBOKEN—Leonard Sheet Metal Works (Inc.),
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JERSEY CITY—American Skylight & Iron
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 ondus"), 221 Randolph
 Anderson Bros. Co., 394 Grove
NATIONAL SHEET METAL ROOF-
 ing Co., 339 Grand. (See adv. index,
 end of book)
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 Rader, Henry, 27 Thorne
 Ringle, Jacob & Son, 83 Newark av
 Schreck & Waelty, 27 Hague
NEWARK—Allwood, Jos. R., 39 Marshall
 Baler & Conrad 336 Hunderton
 Berla, Elias, 232 Mulberry
 Bleeker, Jos., 130 South
 Central Cornice & Skylight Works, 160 N 1st
 Ding & Teuscher, 476 18th av
 Engelberger, F. & W. V. Co., 159 Jelliff
 av
 Essex Cornice & Skylight Works, 109 Hous-
 Hammond, Theo. C., 13 Perry ton
 Himmel, Louis & Co., 115 Belmont av
 Newark Cornice & Skylight Works, 9
 Schwing & Co., 190 Ferry 17th av
 Smith, Frank F., 19 Division
 Steinberg, Jacob, 225 Belmont av
 Zenglein, John A., 45 Winans av
PASSAIC—Falstrom & Tornquist
PATERSON—Lendrin, H. C. Co., 82 Clay
 McNeil, Lawrence W.
 Quinn Bros., 9 Fair
SCOTCH PLAINS—Jahns, Rob't Sons
WEST HOBOKEN—Gutschmidt, W. H., 810
 John

NEW YORK.

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 Gorman, Jas. J., 14 Norton
 Hoffman, J. H. B., 90 Green
 Hood, W. R., 115 Hamilton
 MacNee & Rahe, 659 B'way
 Walsh's, James D. Sons, 40 Sheridan av
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 McIntyre & Hull
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 of Brooklyn)
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 Christmann, Philip & Sons, Virginia &
 Degenhart & Co., 1910 Niagara Orange
 Eberz, Peter, 285 Dearborn
 Elsinghorst, John H., 574 Michigan
 Gruber, Rupert & Co., 541 Sherman.
 Lindsay Wilson, 167 E Ferrv.
 Machwirth Bros. Co., 201 Oak
 Peters, G. H. Co., 289 Oak
 Rademacher Bros., 345 Fox.

COHOES—Loop, Wm. H.
ELMIRA—Barker, Rose & Clinton Co.
KINGSTON—Wleber, Henry E. (Est. of)
NEWBURGH—Atlas Roofing Co.
 Shannon & Co., 107 Liberty

NEW YORK CITY.

Borough of Brooklyn.

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 Baussmann, Henry, 8 Lombardy Bath
 Bent & Becker, 329 Myrtle av
 Beer, Max F., 1622 B'way
 Blecher Bros., 49 Nostrand av.
 Bloch, Jos., 34 Grand
 Buchanan, Wm., 488 Sumner av
 Buell, C. S. Co., 26 Court
 Burger & Gohlke, 232 7th
 City Cornice & Skylight Co., 908 Flushing
 Cohen, Henry, 395 Rockaway av
 Davis, John Sons, 170 Court
 Friedberg & Klein, 278 Division av
 Gogarty, Michael J. (Copper & Galvanized
 Iron), 1531 Fulton
 Greenthaler, Chris., 333 Throop av
 Haines, A., 87 Fulton
 Herrmann & Grace, 671 Bergen
 Hoellner, Jos., 91 Union av
 Kuhnla, August, 10 Lorimer
 Metropolitan Cornice & Skylight Works, 79
 Metropolitan av
 Midner, Chas., 465 Flushing
 Muller, E. A. & Bro., 687 4th av
 Ostergren, Sam'l & Sons, 727 3d av
 Otto, Jno. M., 46 Maujer
 Schnabel, Casper, 1470 Myrtle av
 Schnitzspan, Henry V., 800 Wythe av
 Schratwieser Fireproof Construction Co., 420
 Seton, John, 78 Washington av 3d av
 Smith, Alr Chamber Sky Light Co., 17
 Wachter, Gus H., 129 Stanhope Fulton
 Weiss, Adolph, 963 Myrtle av

Boroughs of Manhattan & Bronx.

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AMERICAN LUXFER PRISM CO.,
 507 W B'way. (See adv. index, end of
 book)
 Architectural Cornice & Skylight Works,
 325 W 38th
 Architectural Metal Works, 1192 2d av.
 Bauman, Jos. & Son, 79 E 4th
 Beer & Hess, 223 W 35th
 Berghind, Chas. & Son, 774 3d av
BICKELHAUPT, GEO. SKYLIGHT
 Works, 243 W 47th. (See adv. index,
 end of book)
 Bois Sheet Metal Works, 562 W 34th
 Breivogel, Geo., 48 Rose
 Bronx Metal Works, 1833 Washington av
 Cary-Doerhoefer Co., 126 E 129th
 Coleman & Krause, 515 W. 29th
 Curry, P. & Son, 61 Wooster
 Dietze, Oscar, 242 E 80th
 Erker, Adam M., 432 W 37th
 Essenwanger, Chas., 280 E 148th
 Fordham Cornice Works, 634 Pelham av
 Ginger Skylight Co., 218 W. 37th
 Goldman, Barney, 520 W. 40th
 Harlem Cornice & Roofing Co., 1960 Park
 av
 Harrison, M. & Son, 214 E. 52d
 Hayes, George Co., 71 5th av
 Hell Gate Sheet Metal Works, 236 E 95th
 Jampol & Martz, 132 W Houston
 Kulbert, Adolph & Son, 170 3d
 Kramer, Morris, 569 3d av.
 Lupton's, David Sons Co., 50 Church
McFARLAND, J. C. & CO., 213 &
 215 E 44th. (See adv. index, end of
 book)
 Mark, Jacob Sons (Iron Frame), 7 Worth
 May, Wm. M. Co., 708 11th av
 Morrow, Jno. Co., 225 W 50th
 National Ventilating Co. (Steel Puttyless).
 1 Madison av

NEW YORK PRISM CO., 497 W.

B'way. (See adv. index, end of book)
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 Pfeiffer Bros., 473 Greenwich
 Rendle, Arthur E. (The Paradigm), 18 W
 Rosenberg, Adolph, 512 E 17th
 Saron, David, 2164 Madison av
 Schwoerer, A. & Sons, 530 E 80th
 Smith, Moritz, 1045 3d av
 Smith & Dorsett Co., 403 E 47th
 Steckler & Feder, 246 Ave B
 Taylor, E. R. Co., 160 5th av
 United Cornice & Skylight Works, 153
 Vincent, Wm. E. D., 133 E 118th Lewis
 Vogt, Geo. J., 315 E 60th
 Westergren, Moritz F., 213 E 144th

(End of New York City)

NIAGARA FALLS—Machwirth Bros. Co.
POUGHKEEPSIE—Aldrich, Elbert, 363 Mill
ROCHESTER—Goggin & Knowles, 50 Frank-
 Haskins & Co., 397 Main E
 - National Skylight & Ventilator Co. (Ven-
 tilated & Puttyless)
 Siddons, John Co., 65 N Water
SYRACUSE—Bradford & Deruchie, 439 E
 Water

Cashman & McCarthy, 372 W Fayette
 Curran, James
 Talbott, Thos. & Son, 240 W Water
TROY—Loeble, Wm., 422 River
 Manogue, Edw. Co., ft Grand
UTICA—Metal Roofing & Cornice Co., 71 Main
YONKERS—Fitzgerald, David, 202 New Main
 McVicar, Thos., 30 Dock
 McVicar, Wm. H., 83 Woodworth av

NORTH DAKOTA.

GRAND FORKS—Barnes & Nuss Co.

OHIO.

AKRON—Kasch Roofing Co.
CAMBRIDGE—Cambridge Roofing Co.
CANTON—BERGER MFG. CO., THE.
 (See adv. index, end of book)
CANTON MFG. CO. (See adv. in-
 Eller Mfg. Co. dex, end of book)
 Kannherg Roofing & Ceiling Co.
CINCINNATI—Beckman, Wm., 1543 Race
 Blum, Albert, 2837 Woodburn av
 Brandis, Wm., 3109 Reading rd
EDWARDS MFG. CO., 545-565 Eg-
 gleston av. (See adv. index, end of
 Emmers Cornice Co., 1007 B'way book)
 Freund, Jacob Roofing Co., Mitchell av &
 B. & O. S. W. R'y
 Greiwe, Edw. & Bro., 1128 B'way
 Lee, Thos., Elm & Race
 Queen City Exhaust & Blow Pipe Co.,
 1732 Central av
 Standard Roofing Co., 1662 Providence
 Weissenberger, Geo. G., 4004 Spring Grove
 Witt Cornice Co., 2118 Winchell av
 Witt & Brown, 215 W 3d
CLEVELAND—Callaghan, J. & Sons, 1119
 Superior, N E
 Cleveland Metal Roofing & Ceiling Co.,
 3105 Detroit av, N W
 Garry Iron & Steel Co., 1270 E 53d
 Mannen & Esterly Co., 2241 St. Clair av,
 Ohio Roofing Co., 1477 Euclid av N E
 Ortil, Chas. F., 2510 Barber av, S W
 Rlester & Thesmacher Co., 1512 W 25th,
 N W
 Rudolph & Son Co., 416 Prospect av, N W
 Stran, C. W., 1288 E 9th
COLUMBUS—Schilling, John N., 193 N Grant
 Schoedinger, F. O., 146 N 3d
DAYTON—Bretch, A., 126 E 5th
 Buvinger, G. W. & F. E., 323 E 3d
 Kenney, J. R., 251 S Wayne av
 Wulchet, Chas. & Co., 14 S Canal
FINDLAY—Gates, N. S.
 Hoffman & Bryan
HAMILTON—Schlosser, Jacob, & Son
MANSFIELD—Martin, C. E. & Bro.
SALEM—MULLINS, W. H. CO. (Steel).
 (See adv. index, end of book)
SPRINGFIELD—Peet & Schuster Co., 28 S
 Fountain av
TOLEDO—Gerken, J. D. & Co., 1309 Washn
 Hofer, Fred'k, Jr., ft of Washington
 Hofer, G. & Co., 13 S St. Clair
 Toledo Cornice & Copper Works, 130 Ot-
 Warnke Bros. Co., 23 Erie
ZANESVILLE—Snyder Roofing Co.

OREGON.

PORTLAND—Bayer, J. C. Furnace Co., 265
 Burkhart & Weaverson, 305 4th Second
 Hirschberger, H. H.
 Tilton Bros., 105 5th N
 Wynkoop, L. W.

PENNSYLVANIA.

ALLEGHENY—Allegheny Cornice & Skylight
 Co.
 Irwin, Thos. W. Mfg. Co., 411 Rebecca
 Scholes Bros., 1241 Rebecca
ALTOONA—Hughes, J. C. & Son
BETHLEHEM—Lehigh Valley Cornice Works
CARNEGIE—Rome, Geo. & Co.
CHESTER—Armltage, Geo. L.
ECONOMY—Lieberman, M. F. Sheet Metal &
ERIE—Murphy Bros. Roofing Co.
 Patterson & Sterling
GREENSBURG—Overly, W. F.
HARRISBURG—Fager, G. C. & Son
HAZLETON—Barber, J. F. & Co.

LANCASTER—Arnold, Jno. L.
Sheet Metal & Supply Co.
McKEESPORT—Trader, E. N.
PHILADELPHIA—Abronski Bros., 1615 Stiles
American Bar Lock Co. (Bar Lock Sys-
tem), 26th & Penna av
American Metal Cornice W'ks, 1124 Ontario
Bleigen, Henry J., 868 N 4th
Bohem, A. & G., 15th & Federal
Central Cornice Works, 3420 Market
Gara, McGinley & Co., 23 S 17th
Garthaus, H. A., 1847 N 6th
Knodel, Emil, 7 Girard av
Lupton's, David Sons Co., Allegheny av &
Tulip
Meade Roofing Co., Woodland & 46th,
Phila., Pa.
Metallic Mfg. Co., 232 Spruce
Penn Metal Ceiling & Roofing Co., 23d &
Hamilton, Philadelphia, Pa.
Rhoads & Maloney, 429 N 3d
Rising Sun Cornice Works, Rising Sun la
& 8th
Schnitzspan, H. V., 800 Wythe av
Thorn, J. S. Co., 20th & Allegheny av
PHOENIXVILLE—Caswell & Moore
PITTSBURG—Kelghley, S. Metal Ceiling &
Mfg. Co., 824 Locust
Luckhardt, Louis, 85 Sweetbriar
Rasner & Dinger Co., 2d av & Ferry
SCRANTON—Gmister Bros.
WILKES-BARRE—Carpenter, B. G. & Co.
Connor, Harry & Co.

RHODE ISLAND.

PROVIDENCE—Brody, Louis, 21 Mill
Brunckow, C. G. Co., 223 Globe
Burgess, Jas., 254 Prairie av
CLASON ARCHITECTURAL METAL
Works, 428 Kinsley av. (See adv. in-
dex, end of book)
Enterprise Cornice & Skylight Works, 27
Harris, Clayton, 281 Canal Bassett
Lamoureux, F. & Co., 39 Friendship
Providence Arch'l Metal Works, 237 Dyer
Providence Cornice Co., 311 Canal
Rhode Island Cornice Co., 76 Point
Strauss Co., 303 Eddy

SOUTH CAROLINA.

CHARLESTON—Masters, R. M., 127 King
Morris, R. J., 130 King

TENNESSEE.

CHATTANOOGA—Goodlake, C. W.
MEMPHIS—Burdick, A. W. & Co.
Eichberg & Lang Mfg. Co.
Fritz, Ed. H.
Wessendorf, Chas.
NASHVILLE—Phillips & Buttorf Mfg. Co.
nue A

TEXAS.

AUSTIN—Arlitt, Max
DALLAS—Burke, W. D., 128 N. Akard
EL PASO—Monsen, Gus. & Co.
FORT WORTH—Attwell Cornice Co.
GALVESTON—Fredericks, Wm. G., 2309 Ave-
Werner, Geo. P., 1628 Winnie nue A
HOUSTON—Holtkamp, E. E.
Schlom, M. J. & Co.
SAN ANTONIO—Jewett Cornice & Roofing Co.

UTAH.

SALT LAKE CITY—Bywater & Groo

VIRGINIA.

NORFOLK—Bohn Roofing & Cornice Co., 11
RICHMOND—Burton, R. Plume
Hackett, R. & Co., 1009 Basin
ROANOKE—Possin, Theo. & Co.

WASHINGTON.

SEATTLE—Finlay & Robb, 88 Lenora
Seattle Cornice Works, 1130 1st av, S
Western Sheet Metal Works, 1751 1st av, S
SPOKANE—Brandt Bros.
Brown Bros. (Inc.), 42 Sprague av
TACOMA—Cizek, A. F. Sheet Metal W'ks Co.
Miller, Edw. Cornice & Roofing Co.

WEST VIRGINIA.

WHEELING—Bayha, D. H.
Caldwell, B. F. & Co.
Nesbitt & Bro.

WISCONSIN.

EAU CLAIRE—Eau Claire Cornice & Heating
Co.

GREEN BAY—Green Bay Cornice & Corru-
LA CROSSE—Gass, Anthony gating Co.
Gateway City Steel Tank & Roofing Co.
La Crosse Steel Roofing & Corrugating Co.
MILWAUKEE—Biersach & Niedermeyer, 218
Braun & Millen, 534 Clinton 5th
Consolidated Sheet Metal Works, 661 Hub-
Feix & Goethe, 818 Winnebago bard
Green, David D., 215 6th
Hoffmann & Baur, 279 Lake
Kiebertanz, August, 2325 Fon du Lac av
MILWAUKEE ARTISTIC METAL
Ceiling Co. (See adv. index, end of book)
MILWAUKEE CORRUGATING CO.,
S Bay & Aldrich. (See adv. index, end
of book)
Milwaukee Metal Skylight & Galvanized
Iron Cornice Works, 139 6th
Roeder, Chas., 1520 7th
Romberger, Jos., 2121 Cherry
Schmitt, F. & Sons Co., 301 4th
Tonnsen, Elbert B., 51 3d
SUPERIOR—Bingham Hardware Co., W. S.
Carlson Bros.
Holmes, A. E. & Bro. Co.

*Skylights ("More Light" System)

MORE LIGHT SIDEWALK CON-
struction Co., 29th st, Wheeling, W. Va.
(See adv. index, end of book)

Skylights (Ornamental Iron)

BICKELHAUPT, GEO. SKYLIGHT
Works, 243 W 47th, New York. (See adv.
index, end of book)
Hecla Iron Works, 118 N 11th, B'klyn, N. Y.
SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)
WINSLOW BROS. COMPANY, Chicago, Ill.
(See adv. index & branch offices, end of book)

Skylights (Prism System)

(See Glass Manufacturers, Prismatic)

Skylights (Puttyless)

National Skylight & Ventilator Co., Rochester,
N. Y.
National Ventilating Co., 1 Madison av, New
York

*Skylights (3-Way Prism)

AMERICAN 3-WAY PRISM CO., 134 N
10th, Phila., Pa. (See adv. index & branch
offices, end of book)

Slag (Concrete & Roofing, Etc.)

Acme Asphalt Roofing Co., 65 Mallory av., Jer-
sey City, N. J.
Clymer, J. L., Marshall & Berks, Phila., Pa.
Emanuel & Co., Catasauqua, Pa.
Hatfield, Geo. E., 314 Flushing av., Brooklyn,
New York
Imperial Product Co., 213 St. Paul, Baltimore,
Md.
Little, Wm., Conschohocken, Pa., & Swede
land, Pa.
Mount Laurel Slag Co., Reading, Pa.
Perry Iron Co. (Granulated), Erie, Pa.
Robinson, Thos. & Co., Real Estate Trust bldg.
Phila., Pa.
Vulcanite Paving Co., Land Title bldg, Phila.,
Pa.

Slate Columns

American Slate Co., Bangor, Pa.
Criterion Slate Co., Hydeville, Vt.
East Bangor Consolidated Slate Co., East Ban-
gor, Pa.

Slate Fasteners

Farquhar's, Jno. Sons, Fair Haven, Vt.

Slate Floor Tile

Allen's S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
Fair Haven Marble & Marbleized Slate Co.,
Fair Haven, Vt.
Hower, J. K., Slatington, Pa.
Hinckey, Patrick, Hydeville, Vt.

McKenna, David, Slatington, Pa.
Minogue Bros. & Quinn, Hydeville, Vt.
Monson Consolidated Slate Co., Bath, Me.
Monson Maine Slate Co., 113 Devoushire, Bos-
ton, Mass.
Pelican Slate Mfg. Co., Wind Gap & Pottstown,
Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Slatington Slate Co., Slatington, Pa.
Williams Slate Co., Arvonla, Va.

Slate Flour

Atlas, M. & M. Co., Lincoln, N. J.
Mertztown Mfg. Co. Works, Mertztown, Pa.

Slate for Electrical Purposes

Aigouquin Red Slate Co., Worcester, Mass.
Mills, Truthville, N. Y.
Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bachman Bros., Slatington, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Bonville Bros., Fair Haven, Vt.
Bonville, Edw., Fair Haven, Vt.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
Durick & Flanagan Co., Fair Haven, Vt.
Fair Haven Marble & Marbleized Slate Co.,
Fair Haven, Vt.
Fitzpatrick Bros. & Co., West-Castleton, Vt.
Hower, J. K., Slatington, Pa.
Hydeville Slate Works, Hydeville, Vt.
Jones & Frances, Fair Haven, Vt.
McGratty & Sons, 313 Butler, Brooklyn, N. Y.
McNamara Bros., Fair Haven, Vt.
Merrill Brownville Slate Co., Brownville, Me.
Monson Consolidated Slate Co., Bath, Me.
Monson Maine Slate Co., Boston, Mass.
New York Slate Works, 138th & 3d av, New
York
North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Penna. Natural Slate Blackboard Co., Slat-
ington, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 253 E 138th, New York
Portland-Monson Slate Co., Portland, Me.
Shenton, Thos. H., Slatdale, Pa.
Slatington Slate Co., Slatington, Pa.
Young, A. B., Fair Haven, Vt.

Slate Grave Covers

(See Burial Cases & Vaults, Slate)

Slate (Mausoleum or Catacomb)

Bangor Slate Co., Bangor, Pa.
Bangor Structural Co., Bangor, Pa.
Penna. Structural Slate Co., Easton, Pa.

Slate Mill Stock

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., East Bangor & Easton, Pa.
Bachman Bros., Slatington, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bonville Bros., Fair Haven, Vt.
Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
East Bangor Consolidated Slate Co., East Ban-
gor, Pa.
Fair Haven Marble & Marbleized Slate Co.,
Fair Haven, Vt.
Genuine Bangor Slate Co., Easton & Bangor
Pa.
Hahn, Granville (Mantel Stock), Walnutport,
Pa.
Heimbach Slate Co., Bethlehem, Pa.
Hinckey, Patrick, Hydeville, Vt.
Hower, J. K., Slatington, Pa.
International Slate Co., Slatington, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Kirtland, W. H., 1123 B'way, N. Y.
McKenna, David, Slatington, Pa.
Moyer, J. S. & Co., Bangor, Pa.
North Bangor Slate Co., Bangor, Pa.
Ontalaunee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Pittston Slate Mfg. Co., Pittston, Pa., &
Slatington, Pa.
Schaeffer, R. F., Bangor, Pa.
Slatington Slate Co., Slatington, Pa.
Stoddard, D. & Son, Bangor, Pa.
Williams Slate Co., Arvonla, Va.
Woodley Slate Co., East Bangor, Pa.

Slate Morgue & Dissecting Slabs

Bangor Slate Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
Penna. Structural Slate Co., Easton, Pa.

Slate (Plumbers')

(See Slate Urinal Slabs, Etc.)

Slate Radiator Tops

(See Slate Stairs, Treads & Risers)

Slate Refrigerator Linings

(See Slate Stair Treads & Risers)

Slate Register Frames or Borders

Algonquin Red Slate Co., Worcester, Mass.
Mills, Truthville, N. Y.

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
Hinchey, Patrick, Hydeville, Vt.
Illinois Marble Co., Edwardsville, Ill.
McKenna, David, Slatington, Pa.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.

North Bangor Slate Co., Bangor, Pa.
Ontalannee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Penna. Structural Slate Co., Easton, Pa.
Williams Slate Co., Arvonla, Vt.

Slate (School)

(See Slates, School; also Black Boards, Slate)

Slate Sinks

(See Laundry Tubs, Slate; also Slate Urinal Slabs, Etc.)

Slate Stair Treads & Risers

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Hardy Slate Co., Pen Argyl, Pa.
Bangor Slate Co., Bangor, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
Blue Mountain Slate Co., Wind Gap, Pa.
Chicago Slate & Mantel Co., 232 S Clinton, Chicago, Ill.

Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Excelsior Slate Co., Pen Argyle, Pa.
Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.

Hahn, Granville, Walnutport, Pa.
Hower, J. K., Slatington, Pa.
Illinois Marble Co., Edwardsville, Ill.
International Slate Co., Slatington, Pa.
Keenan Bros., Bangor, Pa.
Keenan Structural Slate Co., Bangor, Pa.
Kirtland, W. H., 1123 B'way, New York
Lehigh Structural Steel Mfg. Co., Slatington, Pa.
McKenna, David, Slatington, Pa.
Meadow Brook Slate Co., Slatington, Pa.
Monarch Slate Mfg. Co., Slatington, Pa.
Monson Consolidated Slate Co., Bath, Me.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.

North Bangor Slate Co., Bangor, Pa.
New York Slate Works, 493 E 138th, New York
Ontalannee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, Pa.
Penna. Natural Slate Blackboard Co., Slatington, Pa.
Penna. Slate Co., Slatington, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Phoenix Slate Co., Windgap, Pa.
Portland-Monson Slate Co., Portland, Me.
Schaeffer, R. F., Bangor, Pa.
Schilling Co., 43 Eagle, Albany, N. Y.
Scotch Hill Slate Co., Fair Haven, Vt.
Slatington-Bangor Slate Syndicate, Slatington, Pa.
Slatington Slate Co., Slatington, Pa.
Southwestern Slate Co., Slatington, Ark.
Washington Slate Co., Slatington, Pa.
Williams Slate Co., Arvonla, Va.
Woodley Slate Co., East Bangor, Pa.

Slate (Structural)

(See Slate, Stair Treads & Risers)

Slate Tanks

Fair Haven Marble & Marbleized Slate Co., Fair Haven, Vt.
Illinois Marble Co., Edwardsville, Ill.
New York Slate Works, 138th & 3d av, New York

Slate Tile

(See Slate Floor Tile)

Slate Urinal Slabs, Etc.

Allen's, S. Sons, Fair Haven, Vt.
American Slate Co., Bangor, Pa.
Bangor Slate Co., Bangor, Pa.
Bangor Crescent Slate Co., Bangor, Pa.
Bangor Slate Mining Co., Bangor, Pa.
Bangor Structural Slate Co., Bangor, Pa.
Chicago Slate & Mantel Co., 232 S Clinton, Chicago, Ill.
Cleveland Mantel & Tile Co., 1426 E 30th, Cleveland, O.

Columbia Slate Co., Slatington, Pa.
Columbus Slate Co., Columbus, O.
Coulman & Westcott, Fair Haven, Vt.
Durick, Keenan & Co., Fair Haven, Vt.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Fair Haven Marble & Marbleized Co., Fair Haven, Vt.

Hahn, Granville, Walnutport, Pa.
Hall, Chas. E. & Co., E. Cambridge, Mass.
Hinchey, Patrick, Hydeville, Vt.
Hower, J. K., Slatington, Pa.
Illinois Marble Co., Edwardsville, Ill.
Kimes, J. B. & Co., 1822 Filbert, Phila., Pa.
Kirtland, W. H., 1123 B'way, New York
Lehigh Structural Steel Mfg. Co., Slatington, Pa.
McKenna, David, Slatington, Pa.
Monarch Slate Mfg. Co., Slatington, Pa.
Monson Consolidated Slate Co., Bath, Me.
Monson Maine Slate Co., 113 Devonshire, Boston, Mass.
Moore & Snyder, Slatington, Pa.
New York Slate Works, 138th & 3d av, New York
North Bangor Slate Co., Bangor, Pa.
Ontalannee Slate Mfg. Co., Lynnport, Pa.
Peerless Slate Co., Delta, Pa.
Pelican Slate Mfg. Co., Wind Gap, & Pottstown, Pa.

Penna. Natural Slate Blackboard Co., Slatington, Pa.
Penna. Slate Co., Slatington, Pa.
Penna. Structural Slate Co., Easton, Pa.
Penrhyn Slate Co., 493 E 138th, New York
Phoenix Slate Co., Windgap, Pa.
Portland-Monson Slate Co., Portland, Me.
Rutland Marble Mfg. Co., Rutland, Vt.
Schilling Co., 43 Eagle, Albany, N. Y.
Scotch Hill Slate Co., Fair Haven, Vt.
Slatington-Bangor Slate Syndicate, Slatington, Pa.
Slatington Slate Co., Slatington, Pa.
Southwestern Slate Co., Slatington, Ark.
Troy Bros. & Co., 91 Haverhill, Boston, Mass.
Unger, Jno. F., Slatington, Pa., & 1006 Mount Vernon, Phila., Pa.
Williams Slate Co., Arvonla, Va.
Woodley Slate Co., East Bangor, Pa.

Slate Vault Lining

(See Burlap Cases & Vaults, Slate)

Slates (School)

American Slate Works, Slatington, Pa.
East Bangor Consolidated Slate Co., East Bangor, Pa.
Gardner, Jno., Portland, Pa.
McKenna, David, Slatington, Pa.
Meadow Brook Slate Co., Slatington, Pa.
Miller, O. A. Slate Co., Slatington, Pa., & 127 W Logan, Gtn., Phila., Pa.
National School Slate Co., Bethlehem, Pa.
Shenton, Thos. H., Slaton, Pa.

Slats (Bath Tub)

Wolverine Brass Works, Grand Rapids, Mich.

Sledge Mfrs.

Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), (Blacksmiths' Stone, etc.), Alton, Ill.
Evansville Tool Works (Coal, Blacksmiths' Stone, etc.), Evansville, Ind.
Fulton Tool Works (Miners, etc.), Canal Fulton, Ohio
Hammond, C. & Son, Ogontz, Pa.
Hardseog, Martin Co. (Coal), Pittsburgh, Pa.
Heller Bros. Co., 879 Mt. Prospect av, New-Hubbard & Co., Pittsburgh, Pa. ark, N. J.

Iron City Tool Works (Solid Cast Steel), 324 & Smallman, Pittsburgh, Pa.
Klein-Logan Co., S 13th & Breed, Pittsburgh, Pa.

Lovejoy Tool Works (Double Faced Striking, etc.), 86 E Ohio, Chicago, Ill.

Mack & Co., Rochester, N. Y.
Pittsburg Tool & Drop Forge Co. ("Cheswick" Stone Miners', Blacksmiths', etc.), Works, Cheswick, Pa.

Plumh, Fayette R. (Inc.), Frankford, Philadelphia, Pa.

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Union Drop Forge Co. (Drop Forged), 69 Indiana, Chicago, Ill.

Verona Tool Works, Verona, Pa., & Pittsburgh, Pa.

Warwood Tool Co. (Blacksmiths', Coal, Stone, etc.), Wheeling, W. Va.

Sleds (Bob)

Abingdon Wagon Co., Abingdon, Ill.
Acme Wagon Co., Emlgsville, Pa.
Allen, S. L. & Co. (Flexible Flyer), 1107 Market, Phila., Pa.

Anderson Co., St. Paul, Minn.

Angle Steel Sled Co., Otsego, Mich.

Barber Mfg. Co. (Oscillating), Ashtabula, O.

Belknap Wagon Co., Grand Rapids, Mich.

Bement's, E. Sons, Lansing, Mich.

Columbia Combination Coaster Co., Morgan bldg, Buffalo, N. Y.

Donaldson Bros., Mt. Clemens, Mich.

Howland Mfg. Co., Pontiac, Mich.

Hunt, Helm, Ferris & Co. ("Star", "American" Bobs, Coasters), Harvard, Ill.

Kalamazoo Sled Co., Kalamazoo, Mich.

Keller Mfg. Co., Sank Center, Minn.

Lansing Wheelbarrow Co., Lansing, Mich.

Lloyd Mfg. Co., Minneapolis, Minn.

Minneapolis Plow Works, Minneapolis, Minn.

Northwestern Mfg. Co., Fort Atkins, Wls.

Sheer, Eugene, Lincoln, Ill.

Standard Harrow Co., Utica, N. Y.

Sterling Mfg. Co., Sterling, Ill.

Streich, A. & Bro., Oshkosh, Wis.

Studebaker Bros. Mfg. Co., South Bend, Ind.

Thornburgh Mfg. Co., Bowling Green, O.

Toledo Plow Co., Toledo, O.

Turner, Joel & Co., Fairfield, Ia.

Western Steel & Iron Works, De Pere, Wls.

Sleeves (Dredging)

Acme Rubber Mfg. Co., Trenton, N. J.
American Metal Hose Co. (Flexible Metallic), 173 Lafayette, New York

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. Index & branch offices, end of book)

Boston Woven Hose & Rubber Co., Cambridge, Mass.

Continental Rubber Works, Erie, Pa.

DIAMOND RUBBER CO., Akron, O. (See adv. Index, end of book)

Goodrich, B. F. Co. (Rubber), Akron, O.

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Home Rubber Co., Trenton, N. J.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. Index, end of book)

Republic Rubber Co., Youngstown, O.

Revere Rubber Co., Boston, Mass.

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Sleeves (Paper)

(For Electrical Use, Etc.)

American Electric Fuse Co., Muskegon, Mich.

Cook, Frank B., 244 W Lake, Chicago, Ill.

Harvard Electric Co., 60 W Van Buren, Chicago, Ill.

Standard Underground Cable Co., Pittsburgh, Pa.

Sleeves (Pipe)

Dayton Pipe Coupling Co., Dayton, O.

Dresser, S. R. Mfg. Co. (For Repair Work), Bradford, Pa.

Haines & Co. (Adjustable), 747 W Lake, Chicago, Ill.

Sleeves (Plumbago)

McCullough-Dalzell Crucible Co. (For Bessemer & Open Hearth Furnaces), Pittsburgh, Pa.

Sleeves (Pole Repair)

Gberky, Wm. D. ("Voynow"), Heed bldg., Phila., Pa.

Sleeves (Trolley Wire Splicing)

Western Electric Co. (Made from Cold-Drawn Brass or Pure Copper), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Sleeves (Twist Drill)

Billings & Spencer Co. (Taper), Hartford, Conn.

MORSE TWIST DRILL & MACHINE CO.
New Bedford, Mass. (See adv. index, end of book)

New Process Twist Drill Co., Taunton, Mass.

Sleeves & Tees for Underground Construction

McIntire, C. Co., Newark, N. J.

Sleeving (Cotton)

(For Electrical Use, Etc.)

Anchor Webbing Co., Woonsocket, R. I.
Belden Mfg. Co., 194 Michigan av, Chicago, Ill.

Dunton, M. W. Co., Providence, R. I.
Hope Webbing Co., Providence, R. I.
Niedner, Chas. Sons Co., Malden, Mass.

ROSSENDALE - REDDAWAY BELT-
ing & Hose Co., Newark, N. J. (See adv. index, end of book)

Textile Tube Co., Fall River, Mass.

Slicers (Fruit & Vegetable)

Atkins, E. C. & Co., Indianapolis, Ind.
Catawissa Specialty Mfg. Co. (Vegetable), Catawissa, Pa.

Disston, Henry & Sons, Phila., Pa.
Enterprise Mfg. Co., Phila., Pa.

Goodell Co. (Potato), Antrim, N. H.
Handy Things Co., Ludington, Mich.

Judge Machine Co., Marine Bk Bldg., Baltimore.
Kilbourne Mfg. Co., Troy, N. Y.

Landers, Frary & Clark ("Universal," "French," "Lightning"), New Britain, Conn.

Peck, Stow & Wilcox Co., Southington, Conn.
Sinclair-Scott Co. (Pineapple), Baltimore, Md.

Streeter, N. R. & Co. (Fruit), Rochester, N. Y.
Tucker & Dorsey Mfg. Co., Indianapolis, Ind.

Valk Mfg. Co., Topeka, Kan.
Zastrow, Geo. W. (Pineapple, Power), 1404 Thames, Baltimore, Md.

Slicers (Meat)

American Slicing Machine Co., Chicago, Ill.

Slide Rests for Lathes

Bartlett, Edwin E., 326 A., Boston, Mass.
National Machine Co., Milwaukee, Wis.

Reed, F. E. Co., 120 Gold, Worcester, Mass.

Slides (Breast Strap)

Stearns, E. C. & Co., Syracuse, N. Y.

Slings (Hay)

Goshen Mfg. Co. ("Hercules"), Goshen, Ind.
Harvard Hay Tool Co., Harvard, Ill.

Hunt, Helm, Ferris & Co. ("Star"), Harvard, Ill.
Louden Machinery Co., Fairfield, Ia.

Milwaukee Hay Tool Co., Milwaukee, Wis.
Myers, F. E. & Bro., Ashland, O.

Ney Mfg. Co., Canton, O.
Ney, V. L. Co., Canton, O.

Porter, J. E. Co. (Center Grip), Ottawa, Ill.
Ricker, W. G., Rochester, N. Y.

Strickler Hay Tool Co. ("Strickler"), Janesville, Wis.

WHITMAN & BARNES MFG. CO.
Chicago, Ill. (See adv. index & branch offices, end of book)

Wisconsin Hay Tool Co., Ottawa, Ill.

***Slitters (Cloth & Paper)**

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

***Slotters (Paper Box)**

BECK, CHAS. PAPER CO. (LTD.), 607 Chestnut, Phila., Pa. (See adv. index, end of book)

Smelters of Spelter

(See also Spelter Manufacturers)

Hegeler Bros., Danville, Ill.
Illinois Zinc Co., Peru, Ill.

Matthiessen & Hegeler Zinc Co., La Salle, Ill.
Mineral Point Zinc Co., Dupue, Ill.

Smelters & Refiners

(See also Babbitt Metal; also Refiners, Electrolytic Copper)

Ajax Metal Co., 48 Richmond, Phila., Pa., & Birmingham, Ala.

American Smelting & Refining Co., 9th & Freeman, Cincinnati, Ohio

American Smelting & Refining Co., 165 B'way, New York

American Zinc Lead & Smelting Co., Caney, Kans.

Atlas Smelting & Refining Co., 1008 Gtn av, Phila., Pa.

Balbach Smelting & Refining Co., Newark, N. J.

Baltimore Copper Smelting Rolling Co., Baltimore, Md.

Battle Creek Smelting & Refining Co., Battle Creek, Mich.

Chicago Metal Reduction Co., 77 Jackson boul, Chicago, Ill.

Colonial Refining Co., 2nd & Bristol, Phila., Pa.

Columbia Smelting & Refining Works, 366 West, N. Y.

Cornell & Andrews Co., Providence, R. I.

Crescent Phosphorized Metal Co., 2314 Wood, Phila., Pa.

Dee, Thos. J. & Co., 69 Wash'n, Chicago, Ill.

Delaware Metal Refinery, 18th & Washington av, Philadelphia, Pa.

Deutsch, N. & Co., 552 S Canal, Chicago, Ill.

Duquesne Reduction Co., Pittsburg, Pa.

Edna Smelting & Refining Co., 525 Reading rd., Cincinnati, O.

Electric Smelting & Aluminum Co. (Aluminum, Silicon, Manganese, Alloys), Lockport, N. Y.

Essex Smelting & Refining Works, 335 Stanton, New York

Eustis Smelting Works, Boston, Mass.

Garfield Smelting Co. (Copper, Ore, etc.), Salt Lake City, Utah

Genesee Reduction Co., Rochester, N. Y.

Glorieux Smelting & Refining Co., Irvington, N. Y.

Goldsmith Bros., 65 Wash'n, Chicago, Ill.

Great Western Smelting & Refining Co., 173 W Kinzie, Chicago, Ill.

Hatthiessen & Hegeler Zinc Co., La Salle, Ill.

Hazard, Coates & Bennett Co.

Higginbotham, Z. F. & Sons (Lead), Fertile, Mo.

Honkamp Bros., 40th cor. Wentworth, Chicago, Ill.

Idaho Smelting & Refining Co. (Gold, Silver, Lead, etc.), Ponderay, Idaho

Illinois Smelting & Refining Co., Kinzie & Peoria, Chicago, Ill.

International Smelting & Refining Co., Real Estate Trust bldg, Phila., Pa.

Johnsen, S. & Co., 208 President, Baltimore, Md.

Kahn Bros., 525 E 19th, New York

Kramer, H. & Co., 353 S Canal, Chicago, Ill.

La Harpe Smelting Co., La Harpe, Kan.

Lanyon Zinc Co., Iola, Kans.

Lehman Bros., 401 Jefferson, Hoboken, N. J.

Lelong, L. & Bro., 345 Halsey, Newark, N. J.

Lipshitz Smelting Works, Waco, Tex.

Lissberger, B. & Co., 742 E 14th, New York

Lissberger, Marks & Son, 281 Borden ave., Brooklyn, N. Y.

Lorraine Smelting & Refining Co., 115 Dearborn, Chicago, Ill.

Los Angeles Smelting & Refining Co., Los Angeles, Cal.

McDonald, Jas. & Sons Co., Cincinnati, O.

McHattan Smelting Co., 1500 Wash'n av, Phila., Pa.

Mammoth Copper Mining Co., Kennett, Cal.

Metropolitan Smelting & Refining Co., 92 New Chambers, New York

Michigan Smelting & Refining Co., Detroit, Mich.

Monarch Metal Co., 156 S Lincoln, Chicago, Ill.

Nassau Smelting & Refining Works, 607 W 29th, New York

National Lead Co., 100 William, New York

National Smelting & Refining Works (H. Hepenheimer, Prop.), 419 Marcy av, Brooklyn, N. Y.

New Jersey Zinc Co., 55 Wall, New York

Orford Copper Co., 43 Exchange pl, New York

Pearl Smelting & Refining Works, 2507 E Cumberland, Phila., Pa.

Perth Amboy Smelting & Refining Co., Perth Amboy, N. J.

Raritan Copper Works, Perth Amboy, N. J.

Reeves, Paul S. & Sou, 1413 Catherine, Phila., Pa.

Riverside Metal Refining Co. (Inc.), Connelville, Pa.

Robson Smelting Co., Buffalo, N. Y.

Roesing Bronze Co., Etna, Pa.

Rosenthal's, Jos. Sons, 192 Berks, Phila., Pa.

Selby Smelting & Lead Co., San Francisco, Cal.

Shimer, H. W. & Co., 19th & Wash'n av., Phila., Pa.

Star Refining Co., 50 State, Boston, Mass.

St. Louis Smelting & Refining Co. (Lead, Slag, etc.), St. Louis, Mo.

Syracuse Smelting Works, Dobbin & Nassau av, Brooklyn, N. Y.

Tacoma Smelting Co. (Lead, Copper, Gold, etc.), Tacoma, Wash.

Tottenville Copper Co., Tottenville, N. Y.

Tri-Bullion Smelting & Development Co. (Gold, Silver, Lead, etc.), 2 Rector, New York

United States Metal Refining Co., 100 B'way, New York

United States Smelting Co. (Copper & Lead Smelters), Salt Lake City, Utah

United States Smelting Works, Phila., Pa.

WALSH'S SONS & CO. (Brass, Copper, Lead, etc.), Newark, N. J. (See adv. index, end of book)

White & Bro., 1502 E. Wilt, Phila., Pa.

Williams, E. A. & Son, Jersey City, N. J.

Woodfall Bros., 1105 Fairmont av, Phila., Pa.

Smelting Plants (Complete Equipment)

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Power & Mining Machinery Co., Cudahy, Wis.

Traylor Engineering Co. (Copper, Silver & Lead), Allentown, Pa.

Smoke Consumers

(See Fuel Economizers; also Furnaces, Smokeless)

Smoke House Builders

Evers Iron Works ("Evers's & Hilderbrandt's" Patents), 1630 Columbus rd. N. W., Cleveland, O.

Gehret Bros. (Doors, Meat Trees, Patent Floors, etc.), Bridgeport, Pa.

Smoke Jacks (Round House)

Dickinson, Paul (Inc.) (Cast Iron), Security bldg, Chicago, Ill.

Illinois Malleable Iron Co. ("Bruyn" Cast Iron Automatic Swinging), 537 Diversey Boul., Chicago, Ill.

Johns, H. W.-Manville Co. ("Transite Asbestos," "Phoenix"), 100 William, New York

Keasby & Mattison Co. ("Century" Asbestos Building Lumber), Ambler, Pa.

Mann-McCann Co. ("Bruyn," "Mann"), Fisher bldg, Chicago, Ill.

Smoke Stacks (Self-Supporting)

(See Chimneys, Steel)

Smoke Stacks (Steel)

(See also Chimneys, Various Kinds; also Boilers, Tubular)

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. index & branch offices, end of book)

Abendroth & Stein (Inc.), 39 Cortlandt, New York

Allen, Wm. & Sons Co., Worcester, Mass.

Anderson Bridge & Scraper Co., Anderson, Ind.

Aurora Boiler Works (Inc.) (Self-Supporting Steel), Aurora, Ill.

Bartlett, Hayward & Co., Baltimore, Md.

Biggs Boiler Works Co., Akron, O.

Bridgeport Boiler Works, Bridgeport, Conn.

Bryan, E. A. Co. (Steel), 1st Nat'l Bank bldg, Chicago, Ill.

CANTON BOILER & ENGINEERING CO. (Self Supporting), Canton, O. (See adv. index, end of book)

CARLIN'S, THOS. SONS CO., 1610 River av., North Side, Pittsburg, Pa. (See adv. index, end of book)

Casey-Hedges Co. (Self Supporting, Guyed, etc.), Chattanooga, Tenn.

Chicago Bridge & Iron Works (Horace E. Horton, Prop.) (Self-Supporting), W 105th & Throop, Chicago, Ill.

Coatesville Boiler Works, Coatesville, Pa.
Connellsville Iron Works, New Haven, Pa.
Connelly, D. Boiler Co. (Self Supporting),
Cleveland, O.

CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)
Cooper, C. & G. Co., Mount Vernon, O.
Detroit Ship Building Co. (Brass Dep't), De-
troit, Mich.

DONEGAN & SWIFT ("Swift's" Self
Sustained), 6 Murray, New York. (See
adv. index, end of book)

Dubois Iron Works, Dubois, Pa.
Duff Patents Co., Inc., Frick Bldg., Pittsburg,
Pa.
East Jersey Pipe Co., Paterson, N. J.
Edge Moor Iron Co., Wilmington, Del.
Fargo Foundry Co., Fargo, N. D.
Fitzgibbons Boiler Co., Oswego, N. Y.
Franklin Boiler Works, Green Island, Troy, N. Y.
Freeman, S. & Sons Mfg. Co., Racine, Wis.
Gem City Boiler Co., Dayton, O.

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)
Hammond Iron Works, Warren, Pa.
Harlan & Hollingsworth Corp., ft. West st.,
Wilmington, Del.

Harrisburg Mfg. & Boiler Co., Harrisburg, Pa.
Hellman Boiler Works, Allentown, Pa.
Hendrick Mfg. Co., Carbondale, Pa.
Honhorst, Joseph Co., Cincinnati, O.
Jarvis Engine & Machine Works, Lansing,
Mich.

Jones & Harold, Jersey City, N. J.
KEELER, E. CO. (Self-Supporting),
Williamsport, Pa. (See adv. index &
branch offices, end of book)

KEWANEE BOILER CO., Kewanee,
Ill., & 35 Michigan, Chicago, Ill. (See
adv. index, end of book)

King Bridge Co., Cleveland, O.
Kittie Boiler & Tank Co., Canton, O.

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

Laey Mfg. Co., Los Angeles, Cal.
Leetonia Boiler Co., Leetonia, O.
Lewis, H. B., 45 Jos. Campau, Detroit, Mich.
Lindsay, W. W. & Co., 1502 Market, Phila.,
Pa.

Littleford Bros. (Steel), Cincinnati, O.
Lyon Boiler & Iron Works, De Pere, Wis.
Lyon Metallic Mfg. Co., Aurora, Ill.

MCCOY, HENRY J. CO. 65-67 Dey,
New York. (See adv. index, end of book)

McNeil Boiler Co., Akron, O.
McNeil, Jas. & Bro. Co., 29th & A. V. Ry.,
Pittsburg, Pa.

MacKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index,
end of book)

Meehan Boiler & Construction Co., Lowellville,
Ohio

MICHELMANN STEEL CONSTRU-
tion Co. (Self-Supporting), Quincy, Ill.
(See adv. index, end of book)

Milwaukee Boiler Co., Milwaukee, Wis.
MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in-
dex & branch offices, end of book)

Munroe, R. & Sons Mfg. Co., Pittsburg, Pa.
Murray Iron Works Co., Burlington, Ia.
Muskegon Boiler Works, Muskegon, Mich.

National Boiler Works, 60 Fulton, Chicago, Ill.
Newbold, R. S. & Son Co., Norristown, Pa.

New England Iron Works Co., Sumner, B &
Fargo, Boston, Mass.

Novelty Steam Boiler Works (Triplett & Jen-
nings, Prop's) (Self-Supporting), 917 S
Howard, Baltimore, Md.

Odlum-Taylor Boiler Co., Memphis, Tenn.
Ohio Boiler Co., Girard, O.

Oil City Boiler Works (Inc.), Oil City, Pa., &
39 Cortlandt, New York

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)

Oldman Boiler Works, 38 Illinois, Buffalo, N. Y.
Oswego Boiler & Engine Co., Oswego, N. Y.

Pennsylvania Boiler Works, Erie, Pa.

PETROLEUM IRON WORKS CO.,
Sharon, Pa. (See adv. index & branch of-
fices, end of book)

Pfeiffer, Chris. Boiler Co., 70 Michigan, Chi-
cago, Ill.

Phoenix Iron Works Co., Meadville, Pa.
Pittsburg Steel Construction Co., Lewis Block,
Pittsburg, Pa.; Works, Economy, Pa.

Pollock, Wm B. Co., Yonngstown, O.
Porter Foundry & Machine Co., Pittsburg, Pa.

Portland Co., Portland, Me.

REEVES BROS. CO. (Self-Support-
ing), Alliance, O. (See adv. index &
branch offices, end of book)

Ricard Boiler & Engine Co., Toledo, O. (book)
Riter-Conley Mfg. Co., 56 Water, Pittsburg, Pa.

Robertson Iron Works Co., Cambridgeport, Mass.

Robb-Mumford Boiler Co. (Inc.), South Fram-
ingham, Mass.

RUGGLES-COLES ENGINEERING CO.,
39 Cortlandt, New York. (See adv. index,
end of book)

SCAIFE, WM. B. & SONS CO., 221
1st av., Pittsburg, Pa. (See adv. index,
end of book)

Sotter Bros., Pottstown, Pa. (end of book)
Southern Engine & Boiler Works (Inc.), Jackson,
Tenn.

Springfield Boiler & Mfg. Co., Springfield, Ill.
Standard Boiler Works, Seattle, Wash.

Standard Boiler & Plate Iron Co., Niles, O.
Star Boiler Works, Clinton, Iowa

Struthers-Wells Co. (Self-Supporting), Warren,
Pa.

Tippet & Wood, Phillipsburg, N. J.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York

Union Boiler & Mfg. Co., Lebanon, Pa.
Union Iron Works, Erie, Pa.

Urle-Snyder Iron Works Co., Kansas City, Mo.
Vance Boiler Works, Geneva, N. Y.

Varley Iron & Steel Works Co., Cleveland, O.
Vogt, Henry Machine Co., Louisville, Ky.

Walsh & Weldner Boiler Co., Chattanooga,
Tenn.

Warren City Tank & Boiler Co., Warren, O.
White, Rob't Engineering Works, ft of Colum-
bia, B'klyn, N. Y.

Wlekes Bros., Saginaw, Mich.
York Mfg. Co., York, Pa.

Smoke Test Machines

(See Machines, Smoke Testing)

***"Smooth-On" Cements & Com-**
pounds

SMOOTH-ON MFG. CO., 572 Com-
munipaw av., Jersey City, N. J. (See adv.
index & branch offices, end of book)

*Snaps (Bolt)

NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See adv.
index, end of book)

*Snaps (Chain)

NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See adv.
index, end of book)

Snaps (Harness, Etc.)

American Snap Co. ("Bang-Up" & "Cant-Un-
Hook"), Ashtabula, O.

Covert Mfg. Co. ("Yankee"), Troy, N. Y.
Draper & Hall Co. ("Hayes" Lock), Middle-
town, Conn.

East Bangor Mfg. Co. ("J. P."), East Bangor,
Pa.

Hayward, S. F. & Co. (Fire Dept.), 39 Park
pl., New York

Mosher & Hogarty, Unionville, Conn.

National Safety Snap Co. ("Kingsnap" Spring
Steel), Wilmington, O.

NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See adv.
index, end of book)

North & Judd Mfg. Co. ("Anchor"), New Bri-
tain, Conn.

Reading Hardware Co., Reading, Pa.

Snaps (Hitching)

East Bangor Mfg. Co. ("J. P."), East Bangor,
Pa.

Owen Mfg. Co., South Bend, Ind.

NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See adv.
index, end of book)

North & Judd Mfg. Co. ("Anchor"), New Bri-
tain, Conn.

*Snaps (Lock)

NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See adv.
index, end of book)

*Snaps (Rope)

NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See adv.
index, end of book)

Snaps (Swivel)

NIAGARA FALLS METAL STAMP-
ing Works, Niagara Falls, N. Y. (See adv.
index, end of book)

North & Judd Mfg. Co. ("Anchor"), New Bri-
tain, Conn.

Wileox, Crittenden & Co., Middletown, Conn.

Snippers (Bean)

Gowanda Agricultural Works ("Century"),
Gowanda, N. Y.

Snips (Pipe)

Kraeutner & Co., Newark, N. J.

Snips (Tinner's)

Acme Shear Co. (Tinner's Shears), Bridgeport,
Conn.

Atlas Shear Co., Bridgeport, Conn.
BERNZ, OTTO S., 13th & S Orange av.,
Newark, N. J. (See adv. index, end of
book)

Berridge Shear Co., Sturgis, Mich.
Claus Shear Co. ("Claus"), Fremont, O.

Clayton Bros., Bristol, Conn.
Detroit Shear Co. ("Searight" Compound Lever
Mechanics, for Soft Steel, Brass, Copper,
etc.), Detroit, Mich.

Hall, Chas. E. Co., Buffalo, N. Y.
Heinisch's, R. Sons Co. ("Vulean"), Newark,
N. J.

International Cutlery Co. ("Star"), Fremont,
Ohio

National Cutlery Co. (Tinner's), Westmoreland
& Boudinot, Phila., Pa.

NIAGARA MACHINE & TOOL
Works, Buffalo, N. Y. (See adv. index,
end of book)

Osborne, C. S. & Co., Harrison, N. J.
PAGE-STORMS DROP FORGE CO.
(Drop Forged), Chicopee, Mass. (See adv.
index, end of book)

Peck, Stow & Wileox Co. ("P. S. & W."),
Southington, Conn.

Penn Metal Ceiling & Roofing Co. (Ltd.), 23d
& Hamilton, Phila., Pa.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Universal Shear Co. ("L'Universal"), 171
B'way, New York

Wiss, J. & Sons Co., Newark, N. J.

Snow Brooms & Sweepers (Street Railway)

(See also Plows, Snow; also Street Railway
Sweeping Machines)

Brill, J. G. Co. ("Brill" Standard Snow
Sweeper), 62d & Woodland av., Phila., Pa.

Consolidated Car Fender Co. ("Campbell" Snow
Broom), Providence, R. I.

Columbia Machine Works & Malleable Iron Co.
("Columbia" Snow Sweeper Brooms),
Brooklyn, N. Y.

McGuire-Cummings Mfg. Co. ("McGuire-Cum-
mings" Automatic Sweeper & Loader; also
Snow Sweepers), N Sangamon, Chicago, Ill.

Snow Guards

(See Roof Snow Guards)

Soap Dispensers (Liquid)

Antiseptol Liquid Soap Co. ("Antiseptol"), 90
S Clinton, Chicago, Ill.

Hygienic Soap Granulator Co., 3 W 39th, New
York

Ideal Liquid Soap Co. ("Ideal"), 726 Byron,
Chicago, Ill.

MORRILL, CHAS. ("Soapurn" for all
Purposes), 277 Broadway, New York. (See
adv. index, end of book)

West Disinfecting Co., 9 E 59th, New York

Soap (Harness)

Frazer Lubricator Co. ("Frazer," White Cas-
tile, etc.), 83 Murray, New York

Hollingshead, R. M. Co. ("Hollingshead" Cas-
tile Cream), Camden, N. J.

Miller, Frank Co., 349 W 26th, New York

Sonneborn, L. Sons (Inc.) ("Amalia"), 262
Pearl, New York

Soap (Linseed Oil)

Sonneborn, L. Sons (Inc.) ("Amalia"), 262
Pearl, New York

*Soap (Liquid)

MORRILL, CHAS., 277 B'way, New
York. (See adv. index, end of book)

Soapstone

Arkansas Soapstone & Refractories Co., Little
Rock, Ark.

Albemarle Soapstone Co., Alberene, Va.

Alberene Stone Co., 223 E. 23d, New York, & 60 N. Clinton, Chicago, Ill.
 Cobutta Tale Co. (Brick, Foundry Facings, Crayons, Pencils, etc.), Dalton, Ga.
DOGGETT, STANLEY (Brick, Foundry Facings, etc.), 101 Beekman, New York. (See adv. index, end of book)
 Hoffman, F. G., Beta, N. C.
 National Soapstone Co., 385 1st av., New York
 Phoenix Soapstone Co., 7 Warren, New York
 Piedmont Soapstone Co., 55 Congress, Boston, Mass. Works, Asbestine, Va.
 Troy Bros. & Co., 91 Haverhill, Boston, Mass.
 Union Soapstone Co., 14 Marshall, Boston, Mass.
 Virginia Soapstone Co. (Kitchen Slabs, Laundry Tubs, Slabs, Hearths, etc.), Schuyler, Va.

Soapstone for Electrical Work

Alberene Stone Co., 223 E. 23d, New York
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 National Soapstone Co. Shipman, Va., & 385 1st av., New York
 Old Dominion Soapstone Corp., Esmont, Va.
 Phoenix Soapstone Co., 7 Warren, New York
 Piedmont Soapstone Co., Asbestine, Va.
 Williams & Co., Nashua, N. H.
 Walls, Owen & Stambach Co., 11th & Ridge av., Phila., Pa.

Soapstone for Lubricants

(See Soapstone, Powdered or Dust)

Soapstone (Ground)

(See Soapstone, Powdered or Dust)

Soapstone (Powdered or Dust)

American Soapstone Finish Co., Chester Depot, Atlas, N. & M. Co., Lincoln, N. J. Vt.
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
 Hoffman, F. G. (Dust & Crude), Beta, N. C.
 Mellvaine Bros., 1500 Hamilton, Phila., Pa.
 Piedmont Soapstone Co., 55 Congress, Boston, Mass. Works, Asbestine, Va.
RUTLAND FIRE CLAY CO., Rutland, Vt. (See adv. index & branch offices, end of book)
 Salomon, L. A. & Bro. (Powdered), 216 Pearl, New York

Socket Bushings (Rubber)

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
 Goodrich, B. F. Co., Akron O.
 Republic Rubber Co., Youngstown, O.

*Socket Linings

DELAWARE HARD FIBRE CO. (Fibre), Wilmington, Del. Works, Marshaltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO. (Fibre), Elsmere, Del. (See adv. index, end of book)

*Sockets ("Andrews")

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

***Sockets (Curtain, Pole & Rod)**
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Sockets (Drill)

American Specialty Co. ("Use-Em-Up"), Monadnock blks., Chicago, Ill.
 Billings & Spencer Co., Hartford, Conn.
CLEVELAND TWIST DRILL CO., Lakeside av & 49th, Cleveland, O. (See adv. index, end of book)
 Imperial Bit & Snap Co., Racine, Wis.
 Keystone Mfg. Co., 41 Chandler, Buffalo, N. Y.
 Lang, G. R. Co. ("Lang's" Stayin), Meadville, Pa.
MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)
 National Twist Drill & Tool Co. ("National" Taper Shank Sockets & Sleeves), Detroit, Mich.
 New Process Twist Drill Co., Taunton, Mass.
ONEIDA COMMUNITY (Ltd.), Oneida, N. Y. (See adv. index, end of book)
 Standard Tool Co., Cleveland, O.

Sockets (Electric Lamp)

Benjamin Electric Mfg. Co. (Rotating Counterbalanced), 42 W Jackson boul., Chicago.
 Bryant Electric Co., Bridgeport, Conn.
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Federal Electric Co., Lake & Desplaines, Chicago, Ill.
 Household Electric Appliance Co. ("Dim-a-Lite"), Real Estate Trust Bldg., Phila., Pa.
GENERAL ELECTRIC CO. ("Security" Snap), Schenectady, N. Y., & 30 Church New York. (See adv. index & branch offices, end of book)
 Johns H. W.-Manville Co. (Moulded Mica), 100 William, New York
 Marshall Electric Mfg. Co. (Incandescent), 301 Congress, Boston, Mass.
 Paiste, H. T. & Co., 3101 Ludlow, Phila., Pa.
 Pass & Seymour ("P. & S." Weatherproof), Solvay, N. Y.
 Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
 Peru Electric Mfg. Co., Peru, Ind.
 Sears, Henry D. ("Weber"), 131 State, Boston, Mass.
 Tea Tray Co., Mulberry & Murray, Newark, N. J.
WESTINGHOUSE LAMP CO., Bloomfield, N. J.
 Yost Electric Mfg. Co., Toledo, O.

Sockets (Flag Pole)

Durkee, C. D. & Co., 3 South, New York
 Marine Hardware Co., Penbody, Mass.
 Nicol & Co., 66 N Jefferson, Chicago, Ill.
 Turner Brass Works, Sycamore, Ill.
 Wilcox, Crittenden & Co., Middletown, Conn.

Sockets (Grip)

Standard Tool Co., Cleveland, O.

*Sockets (Incandescent Lamp)

(See also Sockets, Electric Lamp)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Sockets (Ladder)

Arcade Mfg Co. (Iron), Freeport, Ill.

*Sockets (Lathe)

MORSE TWIST DRILL & MACHINE Co., New Bedford, Mass. (See adv. index, end of book)

Sockets (Miniature Lamp)

Bryant Electric Co., Bridgeport, Conn.
 Dennison, L. S. Co., Warren, O.
 Electric Porcelain Mfg. Co., Baltimore, Md.
 Federal Electric Co., 124 W Lake, Chicago, Ill.
 Franco-American Electric Novelty Co., 111 Chambers, New York
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 McCandless, H. W. & Co., 69 Park pl, New York
 Mitchell-Vance Co., 507 W 24th, New York

*Sockets ("Morse" Taper)

MORSE TWIST DRILL & MACHINE Co. (for Oil Drills & Socket Keys), New Bedford, Mass. (See adv. index, end of book)

Sockets (Pump Rod)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 National Tube Co., Pittsburg, Pa. (of book)

Sockets (Regulating)

Knapp Mfg. Co., 20 Warren, New York
 Pringle Electrical Mfg. Co. ("Rels"), 1906 N 6th, Phila., Pa.
 Wirt, Chas. & Co. ("Dim-a-Lite"), 4901 Stenton av, Phila., Pa.

Sockets (Special)

Benjamin Electric Mfg. Co. (Twin or Double Socket), 40 W Jackson boul., Chicago, Ill.
 Burdett-Rowntree Mfg. Co. ("Ball Socket"), Chicago, Ill.

CUTLER-HAMMER MFG. CO. (Push Button), Milwaukee, Wis. (See adv. index, end of book)

D'Oller Shade Co., 119 S 11th, Phila., Pa.
 Federal Electric Co., 124 W Lake, Chicago, Ill.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Hubbell, Harvey (Inc.) ("Hubbard," Pendant Chain Pull), Bridgeport, Conn.
 Marshall Electric Co. (Pendant Chain Pull), Boston, Mass.

Sockets (Standard)

Bryant Electric Co. ("New Wrinkle"), Bridgeport, Conn.
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Marshall Electric Mfg. Co. ("M-S."), 301 Congress, Boston, Mass.
 Paiste, H. T. Co. ("Holoshade"), 32d & Arch, Pass & Seymour, Solvay, N. Y. Phila., Pa.
 Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
 Sears, Henry D. ("Weber"), 131 State, Boston, Mass.
 Yost Electric Mfg. Co., Toledo, O.

Sockets (Sucker Rod)

Masseth Packer & Machine Works ("M. & B."), Butler, Pa.

Sockets (Waterproof)

Advance Mfg. Co. ("Heinz"), Pittsburg, Pa.
 Benjamin Electric Mfg. Co. ("Benco"), 40 W Jackson boul, Chicago, Ill.
 Bryant Electric Co., Bridgeport, Conn.
 Connecticut Electric Mfg. Co., Bantam, Conn.
 Crouse-Hinds Co. ("Norblitt" Porcelain), Syracuse, N. Y.
 Dickinson Mfg. Co. (Mica), Springfield, Mass.
 Federal Electric Co., 124 W Lake, Chicago, Ill.
 Freeman, E. H. Electric Co., Trenton, N. J.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Johns, H. W.-Manville Co. (Moulded Mica), 100 William, New York
 Knowles, C. S., Boston, Mass.
 Marshall Electric Co., Boston, Mass.
 Mechanical & Electrical Mfg. Co., 54 N Desplaines, Chicago, Ill.
 Mercer Electric Mfg. Co., Trenton, N. J.
 Newgard, Henry & Co., 30 W Monroe, Chicago, Ill.
 Paiste, H. T. Co., 32d & Arch, Phila., Pa.
 Pass & Seymour, Solvay, N. J.
 Peru Electric Mfg. Co., Peru, Ind.
 Sears, Henry D. ("Weber"), 131 State, Boston, Mass.
 Slemon Hard Rubber Corp., Bridgeport, Conn.
 Stanley & Patterson ("Newcode"), 23 Murray, New York
 Trumbull Electric Mfg. Co., Plainville, Conn.
 Yost Electric Mfg. Co., Toledo, O.

Sockets (Weatherproof)

(See Sockets, Waterproof)

Sockets (Wire Rope)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BRODERICK & BASCOM ROPE CO., 809 N Main, St. Louis, Mo. (See adv. index, end of book)
 Durable Wire Rope Co. (Self Locking), 28 Atlantic av., Boston, Mass.
 Harris, Wm. & Son, Pittsburg, Pa.
 Keystone Drop Forge Works (Drop Forged), Chester, Pa.
 Terry & Tench Co., Lexington av & 131st, New York
 Trow & Holden, Barre, Vt.
 Wilcox, Crittenden & Co., Middletown, Conn.
 Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

Soda Ash

American Chemical Co., Cincinnati, O.
 Bitterworth-Judson Co., Newark, N. J.
 Clark, Fred. G. Co. (For Wholesale Trade Only), Cleveland, O.
 Columbia Chemical Co., Pittsburg, Pa. Works, Barberton, O.

Mathieson Alkali Works ("Eagle" & "Thistle" Brand), Providence, R. I. Works: Sattville, Michigan Alkali Co., Wyandotte, Mich. Va. Pennsylvania Salt Mfg. Co., 115 Chestnut, Phila., Pa.
Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.
Tennant Sons & Co. (Importers), 76 William, New York
Wing & Evans (Inc.) (Selling Agents), 22 William, New York

Soda (Bichromate & Fluoride)

Harshaw, Fuller & Goodwin Co., Cleveland, O.

Sodium Sulphide

United Zinc & Chemical Co., Kansas City, Mo. Works: Argentine, & Iola, Kans.

Soduxite

American Chemical Co., Cincinnati, O.

Softeners (Cotton)

Zurn, O. F. Co. (Turkish Softener, Resolvent Compound), Broad & Lehigh, Phila., Pa.

Soil Pipe Closers

Kemp, C. M. Mfg. Co. ("Climax"), 401 E. Oliver, Baltimore, Md.

Soil Pipe & Fittings

(See Cast Iron Soil Pipe & Fittings)

Solder (Aluminum)

Aluminum Solder & Refining Co. ("Aluminate"), Oswego, N. Y.
Clum & Atkinson, Rochester, N. Y.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Robson Smelting Co., Buffalo, N. Y.

Solder (Brass Spelter)

Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York

*Solder (Gold & Silver)

UNITED WIRE & SUPPLY CO. (In Wire & Sheets), 109 Summer, Providence, R. I. (See adv. index, end of book)

Solder Mfrs.

(See also Soldering Paste, Salts & Stick)

American Metal Co., 52 B'way, New York
Allen, L. B. Co. (Self Fluxing), 38 Jackson boul., Chicago, Ill.
Blatchford, E. W. Co., 70 N Clinton, Chicago, Ill.
Brady Brass Co., 204 10th, Jersey City, N. J.
Butter, Samuel & Co., 293 Commercial, Boston, Mass.
CANTON MFG. CO. (Jobbers), Canton, O. (See adv. index, end of book)
Chadwick-Boston Lead Co. (Bar, Block, Wire, Plumbers', Tinman's & Came or Glaziers'), Boston, Mass.
Clum & Atkinson, Rochester, N. Y.
Columbia Smelting & Refining Works 366 West, New York
Colwell Lead Co., 109 Lafayette, New York
Crane-Hawley Co., Cincinnati, O.
Cunningham, E. E. (Est. of) (Saw Brazing), Worcester, Mass.
Delaware Metal Refinery, 18th c Wash'n av, Phila., Pa.
Detroit Lead Pipe & Sheet Lead Works, Detroit, Mich.
Eagle Smelting & Refining Works (Wire Segment, Bar, Drop & Capping Triangle, etc.), 738 E 14th, New York
Empire Metal Co., Syracuse, N. Y.
Eureka Tempered Copper Works, North East, Pa.
Gilbert, A. & Sons Brass Foundry, St. Louis, Mo.
Goldberg & Rathman, 289 Commercial, Boston, Mass.
Graham, Jas. & Co., New Haven, Conn.
Great Western Smelting & Refining Co., 173 W Kinzie, Chicago, Ill.
Hendricks Bros. (Plumbers & Brazers), 49 Cliff, New York
Hertz, Theo. Metal Co., St. Louis, Mo.

HUNGERFORD, U. T. BRASS & COPPER Co. (Bar, Tri-Angular & Capping Wire & Segments), 497 Pearl, New York
Illinois Smelting & Refining Co., cor Kinzie & Peoria, Chicago, Ill.
Johansen, S. & Co., 208 President, Baltimore, Md.
Koch & Fox, 22d & Glenwood av, Phila., Pa.
Kramer, H. & Co., 357 S Canal, Chicago, Ill.
Lang, E. M. Co. ("Neverslip" Wire, Drop & Stick), Portland, Me.
Lansten Lead Works, 78 Pratt, Chicago, Ill.
Lehman Bros., Hoboken, N. J.
Lewis, Jno. T. & Bro. Co., 231 S Front, Phila., Pa.
Lissberger, B. & Co. (For All Purposes), 738 E 14th, New York
Lissberger, Marks & Son, 281 Borden av, Brooklyn, N. Y.
Lukens, Thos. F. Metal Co., 238 N. 4th, Phila., Pa.

LUMEN BEARING CO., Buffalo, N. Y. (See adv. index, end of book)
MERCHANT & EVANS CO. (Inc.), (Bar, Tri-Angular & Capping; Wire & Segments), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Millar, Charles & Son Co., Utica, N. Y.
More-Jones Brass & Metal Co., 3138 N B'way, St. Louis, Mo.

Nassau Smelting & Refining Works, 607 W 29th, New York
National Lead Co., 100 William, New York
National Lead & Oil Co. of Pa., 2d National Bk bldg, Pittsburgh, Pa.
North American Smelting Co., 9th c Thompson, Phila., Pa.

Pacific Metal Works, San Francisco, Cal., & Portland, Oreg.
Pearl Smelting & Refining Works, 2507 E Cumberland, Phila., Pa.
Peerless Alloy Co., Denver, Col.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.

Powell, W. G. & Co., Bridgeport, Conn.
Raymond Lead Co., 51 W Lake, Chicago, Ill.
Richards & Co. (Inc.), 200 Causeway, Boston, Mass.
Robson Smelting Co., Buffalo, N. Y.
Rochester Lead Works, Rochester, N. Y.
Rogers Metal Works, Kansas City, Mo.

Rumsey, L. M. Mfg. Co., St. Louis, Mo.
Sanborn, Jno. & Son, 217 Water, New York
Schultz, A. & Co. (Wire, Drop, etc.), Baltimore, Md.
Selby Smelting & Lead Co. (Wiping, Wire, Bar, Strip, Drop, etc.), San Francisco, Cal.
Star Refining Co., 50 State, Boston, Mass.
Syracuse Smelting Works, Syracuse, N. Y.
Tatham & Bros., 82 Beekman, New York, & 223 S 5th, Phila., Pa.

United Lead Co., 111 B'way, New York
United States Smelting Works, Phila., Pa.
UNITED WIRE & SUPPLY CO. (Gold & Silver), 109 Summer, Providence, R. I. (See adv. index, end of book)
Windsor Mfg. Co., Milwaukee, Wis.
Woodfall Bros. (Plumbers, Cannery, Tanners etc.), 1105 Fairmount av, Phila., Pa.

Solder (Rosin Core)

Belden Mfg. Co. ("Belden" for Switchboard & Telephone Connections), 194 Michigan, Chicago, Ill.

Solder (Self-Fluxing)

Belden Mfg. Co., 194 Michigan, Chicago, Ill.
Chicago Solder Co. ("Kester"), 44 N Union, Chicago, Ill.
Kellogg Switch Board & Supply Co., W Congress & Green, Chicago, Ill.
National Lead Co., 100 William, New York
Solderene Co., Boston, Mass.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Soldering Apparatus for Rail Bonding

Smith, Chas. G., 352 Pearl, New York

Soldering Coppers

Ansonia Brass & Copper Co., Ansonia, Conn.
Ayars Machine Co. (For Canning Factories, etc.), Salem, N. J.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Central Stamping Co., 174 Fulton, New York
Clendenin Bros., Baltimore, Md.
Covert Mfg. Co., Troy, N. Y.
Diamond Mfg. Co., Detroit, Mich.
Emmelmans Bros. Mfg. Co. (Gas), Indianapolis, Ind.

Eureka Tempered Copper Works, North East, Pa.

HUNGERFORD, U. T. BRASS & COPPER Co., 497 Pearl, New York
Isle, A. W. & Son, 51 Pitts, Boston, Mass.
Kaufman, A. G. Mfg. Co. (Inc.) (Self Heating), 133 Reade, New York
MacArthur, Archibald, Kearny, N. J.
Mansfield Tempered Copper Co., Mansfield, O.
New Haven Copper Co., Seymour, Conn.
NIAGARA MACHINE & TOOL Works, Buffalo, N. Y. (See adv. index, end of book)

Osborne, C. S. & Co., Harrison, N. J.
Peck, Stow & Wilcox Co., Southington, Conn.
Stover Mfg. Co., Freeport, Ill.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Taunton-New Bedford Copper Co., New Bedford & Taunton, Mass.

Soldering Flux, Paste, Salts & Stick

Allen, L. B. Co. ("Sun" Stick, Paste & Salts), 98 Jackson boul., Chicago, Ill.
American Electric Fuse Co. ("Merico" Paste), Muskegon, Mich.
Atlantic Chemical Works ("Victor," Paste & Stick), 9 Seabring, Brooklyn, N. Y.
Benson, A. R. Co. (Yeager's Salts), Hudson, N. Y.

Blake Signal & Mfg. Co., Boston, Mass.
Brunner Chemical Works, Cincinnati, O.
Bull Dog Specialty Co. (Stick & Paste), South Bend, Ind.
Burnley Battery & Mfg. Co. ("Diamond," Stick & Paste), North East, Pa.
Callahan, Geo. & Co. (Fluid), 129 Front, New York

Central Stamping Co. ("Solderine" Salts & Paste), 174 Fulton, New York
Chase-Shawmut Co. ("Red E"), Newburyport, Mass.

Chicago Solder Co. ("Kester," Paste & Salt), 56 N Union, Chicago, Ill.
Cochrane Chemical Co. (Flux), Boston, Mass.
Corliss Chemical Co. (Stick, Paste & Salts), St. Louis, Mo.
Crescent Co. ("Star," "Crescent," Paste, Stick & Fluid), Valparaiso, Ind.

Dielectric Mfg. Co., St. Louis, Mo.
Dunton, M. W. Co. ("Nokorode," Paste), Providence, R. I.
Electric Traction Supply Co. ("I. T. L., Salts), St. Louis, Mo.

Electrical & Mechanical Development Co. ("Hickey's Hiko," Stick), Asbury Park, N. J.
Elliott Chemical Works (Fluid), Newton, Mass.
Engler, C. A. ("Improved Acme," Stick), 842 N 6th, Phila., Pa.

Fres-Ko Chemical Co., Fort Wayne, Ind.
General Chemical Co. (Salt & Solution), 25 Broad, New York
Grasselli Chemical Co. ("Snowflake," "Standard," "Eureka" Flux), Cleveland, O.
Hartwig, Wm. J. Co. ("New Idea"), Detroit, Mich.

Highland Electro Chemical Mfg. Co. (Insulating Soldering Paste), Connellsville, Pa.
Leveridge, C. W. ("Yankee"), 183 Greenwich, New York

Manhattan Electric Supply Co. ("Excelsior"), 17 Park pl, New York
Reade Mfg. Co. ("Incomparable," Fluid), Hoboken, N. J.
Ruby Chemical Co. ("Ruby," Fluid), Johnstown, O.

Schnelder, Emil (Salts), Newark, N. J.
Schultz, A. & Co. (Fluids), Baltimore, Md.
Seldner & Enequist (Soldering Fluid & Tinning Flux), Brooklyn, N. Y.

Solderine Co., 53 State, Boston, Mass.
Walpole Chemical Co., Walpole, Mass.
WALSH, JOHN F. CO. ("Norcoroso" Stick, Salts & Fluids), Pittsfield, Mass. (See adv. index, end of book)

Soldering Frames & Cylinders

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Lefler, Chas. & Co. (For Can Makers), 63 Clymer, Brooklyn, N. Y.

Soldering Furnaces

(See Furnaces, Gasoline Blast)

Soldering Iron & Blow Torch Combined (Gasoline)

Emmelmans Bros. Mfg. Co. ("Emmelmans"), Indianapolis, Ind.

Soldering Irons (Electric)

American Electric Fuse Co. ("American"), Muskegon, Mich.
American Electrical Heater Co., Detroit, Mich.
Ohio Electric Works, Cleveland, O.
Simplex Electric Heating Co. ("American"), Cambridge, Mass.
Vulcan Electric Heating Co. ("Vulcan"), 69 W. Jackson boul., Chicago, Ill.
Ward, Leonard Elec. Co., Bronxville, N. Y.
WESTINGHOUSE ELECTRIC & MFG. Co. (Electric), Union Bank bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Soldering Irons (Self Heating)

Ams, Max Machine Co. (For Cannery, etc.), Mount Vernon, N. Y.
BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)
Kaufman, A. G. Mfg. Co., 133 Reade, New York

Soldering Machines

(See Machinery)

Soldering Sets

Arcade Mfg. Co., Freeport, Ill.
Barrett, W. L., Bristol, Conn.
Millers Falls Co. ("Gem"), 28 Warren, New York.
Peck, Stow & Wilcox Co., Southington, Conn.
Smith & Hemenway Co., 108 Duane, New York
Thompson, Chas. A. Co. ("Solderine"), 41 Cortlandt, New York
Williams, Chas. & Co., Bigelow, N. Y.
Winn, Wm. R. (Non-Corrosive), 143 Maiden la, New York

*Solenoids (Magnetic)

ELECTRIC CONSTRUCTION & MFG. Co., Cleveland, O. (See adv. index & branch offices, end of book)

Soot Blowers & Suckers (Boiler Flue or Tube)

(See Cleaners, Boiler Flue or Tube (Soot Blowers & Suckers))

Sorters (Bean & Pea)

Bacon Mfg. Co., Pontiac, Mich.
Ferrell, A. T. & Co. ("Clipper"), Saginaw, Mich.
Johnson & Field Mfg. Co., Racine, Wis.

Sorters (Potato)

American Bell & Foundry Co., Northville, Mich.
Aspinwall Mfg. Co., Jackson, Mich.
Brown, Peter & Son, Greeley, Col.
Denver Iron & Wire Works Co. (Screens), Denver, Col.
Dowden Mfg. Co., Prairie City, Ia.
Hench & Dromgold Co. (Peach & Potato Sorter), York, Pa.
Hoover, Prout & Co., Avery, O.
Johnston, A. H., Lucerne, Col.
Miller Bros. (Picker), Rochester, Mich.
Nowlock, J. H. & Sons (Separator & Grader), Bloomsburg, Pa.
Pearson Mfg. Co., Edwardsville, Kans.

*Sounding Lines (Deep Sea)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Sowers (Hand Seed)

Allen, S. L. & Co. ("Planet, Jr."), 1017 Market, Philadelphia, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Bachelor, S. W., Goshen, Ind.
Champion Seeder Co., Urbana, Ind.
Christen, F. & Son ("Premier" Broadcast), St. Louis, Mo.
Cyclone Seeder Co., Urbana, Ind.
Everett, J. A. (Broadcast), Indianapolis, Ind.
Foster, C. A. (Broadcast), Elkhart, Ind.
Goodell Co., Antrim, N. H.
Humphrey & Sons (Broadcast), Joliet, Ill.
Little Giant Seeder Co., North Manchester, Ind.
Prairie Mfg. Co., Indianapolis, Ind.
Pratt, Wm. E. Mfg. Co., 91 Lake, Chicago, Ill.
Rittenhouse, S. B. (Broadcast), S Bend, Ind.
Seeder Mfg. Co., Homer, Mich.

Trojan Mfg. Co. (Broadcast), South Bend, Ind.
Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

Sowers (Plaster)

Empire Drill Co., Shortsville, N. Y.
Foster & Williams Mfg. Co., Racine, Wis.
Ontario Drill Co., Despatch, N. Y.
Williams Bros. (Broadcast Plaster or Grain), Ithaca, N. Y.

Sowers & Drills (Hand Seed Garden)

Allen, S. L. & Co. ("Planet, Jr."), 1017 Market, Philadelphia, Pa.
Ames Plow Co., Quincy Hall, Boston, Mass.
Bacon Mfg. Co. (Seed Drills), Pontiac, Mich.
Bateman Mfg. Co., Grenloch, N. J.
Buckley, R. C. (Garden Drills), Peoria, Ill.
Deere & Mansur Co. (Garden Seeders), Moline, Ill.
Everett, J. A., Indianapolis, Ind.
Genung, W. H. & Son ("Iron King"), Madison, O.
Jelliff, C. O. & Co. (Onion Seed, Drills, etc.), Southport, Conn.
Keller Mfg. Co. (Seeder), Albany, Pa.
Whitman & Barnes Mfg. Co. ("Pearce," "Cyclone," "Chicago"), West Pullman, Chicago, Ill.

Sowers & Seeders

(See Seeders & Sowers)

Spade Mfrs

(See Shovel, Spade & Scoop Manufacturers)

Spades (Concrete)

Concrete Spade Mfg. Co. ("Vaughn," for Concrete Work), 123 S Clinton, Chicago, Ill.

Spades (Garden)

(See also Shovel, Spade & Scoop Manufacturers)
Western Steel & Iron Works, De Pere, Wis.

Spades (Tiling)

American Fork & Hoe Co., Cleveland, O.
Avery Stamping Co., Cleveland, O.
Iwan Bros., South Bend, Ind.
Osmundson Spade Mfg. Co. ("Osmundson" One Piece), Perry, Ia.

Span Wire or Rising Forks

(See Forks, Rising)

Spars

Central Lumber Co., Wapavine, Wash.
Fraser Hollow Spar & Boat Co., Greenport (L. I.), N. Y.
Gamwell & Wheeler, Seattle, Wash.
Hoskins, J. S. Lumber Co., Baltimore, Md.
Lawley, Geo. & Son Corp'n, So. Boston, Mass.
Ostrander Railway & Timber Co., Ostrander, Wash.
Palmer Boat Co., Highland Park, Ill.
Northwest Lumber Co., Seattle, Wash.
Plgeon-Fraser Hollow Spar Co. (Clear White Spruce, Hollow & Solid Spars, 20 to 120 ft.), 116 Condon, East Boston, Boston, Mass.
Pope & Talbot, San Francisco, Cal.
Puget Lumber Co., Port Gamble, Wash.
Tacoma Mill Co., Tacoma, Wash.

Speaking Tubes

Berger Bros. Co., 237 Arch, Phila., Pa.
BERGER MFG. CO., THE, Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
Cowles, C. & Co., Inc. (Automobile & Electric Megaphone), New Haven, Conn.
Ivins, Elwood Tube Works ("Seamless"), Oakline Station, Phila., Pa.
Kell, Francis & Son ("Reliance"), 401 E 163d, New York
Lamb & Ritchie Co., Cambridge, Mass.
McWade, Wm. J. (Combination Tube Phone & Mail Box), 101 Clinton, Chicago, Ill.
Manhattan Electrical Supply Co., 17 Park pl., New York
OSTRANDER, W. R. & CO., 22 Dey, New York. (See adv. index, end of book)
Poole, Jas. W., Boston, Mass.
Van Wagoner-Linn Construction Co., 110 W 28th, New York
Walsh, Owen Mfg. Co., 78 Barclay, New York
Western Electric Co., 259 S Clinton, Chicago, Ill. & 57 Bchune, New York
Wilhelm, Henry, 70 Frost, Brooklyn, N. Y.

Spears (Fish)

Arcade Mfg. Co., Freeport, Ill.

*Specifications for Architects & Builders

SOLTMANN, E. G. (also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Speed Changing Devices

(See Meters, Distance Recording; also Meters, Speed Indicating; also Variable Speed Transmission)

Speedometers

Du Vivier, Ernest H., 30 Church, New York
Schaeffer & Budenberg Mfg. Co. (For Motor Cars), Foxboro, Mass.

Speed Recording (Railway)

Railway Speed Recorder Co., Kent, O.

*Speed Reducing Transmission

(See also Variable Speed Transmission)

JAMES, D. O. MFG. CO. ("O'Kelly" Patent). 351 W Monroe, Chicago, Ill. (See adv. index, end of book)

Spelter Mfrs.

(See also Smelters of Spelter; also Smelters & Refiners)

American Metal Co. (Ltd.) (Jobbers), 52 B'way, New York
American Smelting & Refining Co., 165 B'way, New York
American Zinc, Lead & Smelting Co., Caney, Kan.
Beer, Sondheimer & Co., 42 B'way, New York
Behr & Stelner, 81 Fulton, New York
Blatchford, E. W. & Co., 70 N Clinton, Chicago, Ill.
Cherokee Zinc Co., Gas. Kan.
Delaware Metal Refinery, 18th & Washington av, Philadelphia, Pa.
Edgar Zinc Co., St. Louis, Mo.
Granby Mining & Smelting Co., St. Louis, Mo.
Works, Granby, Mo.
Great Western Smelting & Refining Co., 179 W. Kinzie, Chicago, Ill.
Hayman, Mich'l & Co., Buffalo, N. Y.
Hegeler Bros., Danville, Ill.
Hendricks Bros., 49 Cliff, New York
Hiertz, Theo. Metal Co., 10th & Poepping, St. Louis, Mo.
Hofeller Smelting & Refining Co., Buffalo, N. Y.
Illinois Smelting & Refining Co., cor Peoria & Kinzie, Chicago, Ill.
Illinois Zinc Co., Peru, Ill.
Kramer, H. & Co., 353 S. Canal, Chicago, Ill.
Lanyon Zinc Co., Iola, Kans.
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
Mineral Point Zinc Co., 204 Dearborn, Chicago, Ill.
New Jersey Zinc Co. ("Horsehead"), 55 Wall, New York
Prime Western Spelter Co., Gas. Kan.
Raymond Lead Co., 51 W Lake, Chicago, Ill.
Sandoval Zinc Co., 122 N Peoria, Chicago, Ill.
Works, Sandoval, Ill.
Shimer, H. M. & Co. ("Golden Rod"), 19th & Washington, av, Phila., Pa.
Trench, C. S. & Co., 81 Fulton, New York
Trotter, Nathan & Co., 36 N Front, Phila., Pa.
United Zinc & Chemical Co., Kansas City, Mo.
Works, Argentine & Iola, Kans.
Vogelstein, L. & Co., 42 B'way, New York
Walte, Ranlet & Co., Boston, Mass.

WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)
Woodfall Bros., 1105 Fairmont av, Phila., Pa.

Spherometers

Smith, Ernest G. Co. ("Columbia"), Columbia, Pa.

***Spice Mills**

(See also Mills, Coffee & Spice)

BROWN, A. & F. CO., 25 Day, New York. (See adv. index, end of book)**Spiegelcisen**

Bond, Vivian & Co., 68 Beaver, New York
 Camhria Steel Co., Arcade bldg, Phila., Pa.
 Carnegie Steel Co., Pittsburg, Pa.
 Colorado Fuel & Iron Co., Denver, Colo.
 Crocker Bros. (German), 99 John, New York,
 & Penna. bldg, Phila., Pa.
 Dana & Co. (English & German), 32 B'way,
 New York

LEAVITT, C. W. & CO. (English & German), 30 Church, New York. (See adv. index, end of book)

Maryland Steel Co., Sparrows Point, Baltimore, Md.

New Jersey Zinc Co. (From Zinc Residuum), 55 Wall, New York

Penna. Steel Co., Girard bldg, Phila., Pa.

Potts & Wittman, North American bldg., Phila., Pa.

Samuel, Frank (Firm of), 1502 Market, Phila., Pa.

Tennant, C. Sons & Co., 76 William, New York.

Tennessee Coal, Iron & Railroad Co., Birmingham, Ala.

Spike Mfrs.

(Under this heading see Sub-classifications)

American Iron & Steel Mfg. Co., Lebanon, Pa.

AMERICAN STEEL & WIRE CO.,

(Wire), Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices end of book)

Ames, W. & Co., Jersey City, N. J.

Colorado Fuel & Iron Co., Denver, Col.

Davis Bros., N 29th & Bristol, Phila., Pa.

Dillworth, Porter & Co., Pittsburg, Pa.

Godcharles, F. A. Co. (Cut), Milton, Pa.

Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Igoe Bros., 69 Metropolitan av., Brooklyn, N. Y., & Newark, N. J.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Judson Mfg. Co., San Francisco, Cal.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Kelly Nail & Iron Co. (Cut), Ironton, O.

La Belle Iron Works, Steubenville, O.

Linton Rolling Mill Co., Park bldg., Pittsburg, Pa.

Norton Iron W'ks (Inc.), Ashland, Ky.

Old Dominion Iron & Nail W'ks Co., Richmond, Va.

Penn Iron Co., Lancaster, Pa.

Phillips, Townsend & Co., 4th & Glenwood av., Pottsville, Pa.

Pottsville Bolt Co., Pottsville, Pa.

Republ Iron & Steel Co., Pittsburg, Pa.

Severence, S. Mfg. Co., Glassport, Pa.

Sylvester Co., 70 Kilby, Boston, Mass.

Tredegar Co., Richmond, Va.

Van Alen & Co. (Cut All Sizes), Northumberland, Pa.

Wheeling Steel & Iron Co. (Steel Cut), Wheeling, W. Va.

Spikes (Boat)

(See Spikes, Ship, Dock & Bridge)

Spikes (Bridge)

(See Spikes, Ship, Dock & Bridge)

Spikes (Composition, Boat)

Taunton-New Bedford Copper Co., Taunton Mass., & New Bedford, Mass.

Spikes (Countersunk)

Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.

Spikes (Cut)

Brooke, E. & G. Iron Co., Birdshoro, Pa.

Godcharles, F. A. Co., Milton, Pa.

Igoe Bros., 69 Metropolitan av., Brooklyn, N. Y., & Newark, N. J.

Kelly Nail & Iron Co., Ironton, O.

La Belle Iron Works, Steubenville, O.

Norton Iron Works, Ashland, Ky.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Van Alen & Co., Northumberland, Pa.

Wheeling Steel & Iron Co., Wheeling, W. Va.

Spikes (Dock or Wharf)

(See Spikes, Ship, Dock & Bridge)

Spikes (Hand Made)

Davis Bros., 29th & Bristol, Phila., Pa.

Kohlmann's, Peter Sons, Humboldt, Brooklyn, N. Y.

Ulmer, Theo. C., 336 Richmond, Phila., Pa.

Spikes (Railroad Track)

American Iron & Steel Mfg. Co. (Pressed or Rolled Points), Lebanon, Pa.

AMERICAN STEEL & WIRE CO.,

Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

Ames, W. & Co., Jersey City, N. J.

Atlanta Steel Co., Atlanta, Ga.

CAREY, GEO. H. (Jobber), 1 B'way,

New York. (See adv. index, end of book)

Colorado Fuel & Iron Co., Denver, Colo.

Davis Bros., N 29th & Bristol, Phila., Pa.

Dillworth, Porter & Co. (Steel), Pittsburg, Pa.

Elyria Iron & Steel Co. (High Carbon Steel), Elyria, O.

Hirsch Rolling Mill Co., St. Louis, Mo.

Illinois Steel Co., 115 Adams, Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Judson Mfg. Co., San Francisco, Cal.

Kansas City Bolt & Nut Co., Kansas City, Mo.

KILGORE-PETELER CO. (Mfrs.)

Agts., Minneapolis, Minn. (See adv. index)

Linton Rolling Mill Co., Linton, Ind.

Oliver Iron & Steel Co. (Screw), Pittsburg, Pa.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Penn Iron Co., Lancaster, Pa.

PITTSBURGH GAGE & SUPPLY CO.

(Jobbers), 30th & Liberty av., Pittsburg, Pa.

(See adv. index, end of book)

Pottsville Bolt Co., Pottsville, Pa.

Republic Iron & Steel Co., Pittsburg, Pa.

Scranton Bolt & Nut Co., Scranton, Pa.

Sellers Mfg. Co., 27 W Chicago av., Chicago, Ill.

Severence, S. Mfg. Co., Glassport, Pa.

Sylvester Co., 70 Kilby, Boston, Mass.

Tennessee Coal, Iron & R. R. Co., Birmingham, Ala.

Tredegar Co., Richmond, Va.

Spikes (Rubber)

Morgan & Wright (Inc.), Detroit, Mich.

Spikes (Screw)

Pittsburg Forge & Iron Co., Pittsburg, Pa.

Spikes (Ship, Dock & Bridge)

American Iron & Steel Mfg. Co., Lebanon, Pa.

AMERICAN STEEL & WIRE CO.,

Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

Ames, W. & Co., Jersey City, N. J.

CAREY, GEO. H. (Jobber), 1 B'way,

New York. (See adv. index, end of book)

Colorado Fuel & Iron Co., Denver, Col.

Davis Bros., N 29th & Bristol, Phila., Pa.

Dillworth, Porter & Co. (Steel), Pittsburg, Pa.

Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Jones & Laughlin Steel Co., Pittsburg, Pa.

Judson Mfg. Co., San Francisco, Cal.

Kansas City Bolt & Nut Co., Kansas City, Mo.

Kohlmann's, Peter Sons (Hand-Made & Galvanized), Humboldt, Brooklyn, N. Y.

La Belle Iron Works, Steubenville, O.

Lanz, Matthew & Sons, 101 S 29th, Pittsburg, Pa.

Michigan Bolt & Nut Works, Detroit, Mich.

Norton Iron Works (Inc.), Ashland, Ky.

Old Dominion Iron & Nail Works Co., Richmond, Va.

Oliver Iron & Steel Co., Pittsburg, Pa.

PITTSBURGH GAGE & SUPPLY CO.

(Jobbers), 30th & Liberty av., Pittsburg, Pa.

(See adv. index, end of book)

PITTSBURGH RIVET CO., 38th &

Junction R. R., Pittsburg, Pa. (See adv. index, end of book)

Penn Iron Co. (Ltd.), Lancaster, Pa.

Republic Iron & Steel Co., Pittsburg, Pa.

Scranton Bolt & Nut Co., Scranton, Pa.

Severence, S. Mfg. Co., Glassport, Pa.

Sylvester & Co., 8 Oliver, Boston, Mass.

Tredegar Co., Richmond, Va.

Youngstown Sheet & Tube Co., Youngstown, O.

Spikes (Track)

(See Spikes, Railroad Track)

Spikes (Wire)**AMERICAN STEEL & WIRE CO.,**

Commercial Nat'l Bank bldg, Chicago, Ill.

(See adv. index & branch offices, end of book)

Corbin Screw Corporation, New Britain, Conn.
 Kokomo Steel & Wire Co., Kokomo, Ind.
 Wire Goods Co., Worcester, Mass.
 Youngstown Sheet & Tube Co., Youngstown, O.**Spindles (Clamp)**

Gem Mfg. Co. ("Gem," for Holding Buffing & Polishing Wheels, etc.), Pittsburg, Pa.

Spinning (Metal)

Acorn Brass Mfg. Co., 203 Fulton, Chicago, Ill.

BADGER, E. B. & SONS CO., 75 Pitts,

Boston, Mass. (See adv. index, end of book)

Barlow Mfg. Co., Holyoke, Mass.

Boekel, Wm. & Co., 518 Vine, Phila., Pa.

Braun, David J. Mfg. Co., 135 W Wash'n, Chicago, Ill.

Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.

Evansville Stamping Works, Evansville, Ind.

Hesse & Goodyear Co. (German Silver, Copper, Brass & Steel), 260 S 5th, Phila., Pa.

Woodwin & Kintz Co. (Brass, Steel, Aluminum, etc.), Winsted, Conn.

Hergert, Theo. E., 422 E 53d, New York

Ideal Gas & Electric Fixture Co., 142 Worth, New York

Ireland & Matthews Mfg. Co. (German Silver, Copper, Brass & Steel), Detroit, Mich.

Klause, Chas., 1204 Nectarine, Phila., Pa.

Miller & Doling, 83 Wash'n, Brooklyn, N. Y.

Nangatuck Mfg. Co., Nangatuck, Conn.

Smith, Chas. G., 352 Pearl, New York

Turner Brass Works (All Metals), Sycamore, Ill.

Twilco Stamping Works, Rome, N. Y.

Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N.Y.

Spirits (Columbian)

Gray, Wm. S. & Co., 76 William, New York

Webb, A. L. & Sons, Baltimore, Md.

Wood Products Co., Buffalo, N. Y.

Spirits (Wood)

(See also Alcohol, Wood)

Peninsular Naval Stores Co., Tampa, Fla.

Willcox-Ives Oil Co., Savannah, Ga.

Spittoons (Steel Factory)

(See also Cuspidors)

Ohio Mfg. Co., Painesville, O.

Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N.Y.

Splicers (Cable)

Matthews, W. N. & Bro. ("Hargis"), St. Louis, Mo.

Morris, Elmer P. Co., 90 West, New York

Sponge Rubber**DIAMOND RUBBER CO., Akron, O.**

(See adv. index, end of book)

Faultless Rubber Co. (For Stamp Makers), Ashland, O.

Goodrich, B. F. Co. (For Rubber Stumps, etc.), Akron, O.

Morgan & Wright (Inc.) (Car Wagon, etc.), Detroit, Mich.

"N" Tire Rubber Sponge Co. ("Featheredge"), 35 E. Indiana, Chicago, Ill.

Sponges

Greek-American Sponge Co., 229 Randolph, Chicago, Ill.

Rhodes, James H. & Co. (Producers & Bleached), 117 Kinzie, Chicago, Ill.

Spool Mfrs

(See Textile Machinery, Supplies, Etc.)

Spoons (Aluminum)

Grissold Mfg. Co. ("Erie," Cast), Erie, Pa.

Wagner Mfg. Co., Sidney, O.

Spoons (Basting & Mixing)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Glover, Julia B., Ardsley, N. Y.

Potter Mfg. Co., Geneva, O.

Spoons (Digging)

(See also Shovel & Spade Manufacturers)

Ames Shovel & Tool Co. (Telegraph, etc), Boston, Mass.
Beall Bros. (Inc.), Alton, Ill.
Chisholm, William & Sons, Cleveland, O.
Columbus Haulie & Tool Co., Columbus, Ind.
Gibbs Mfg. Co. (Lock Lever), Canton, O.
Hubbard & Co., Pittsburg, Pa.
Hussey & Binns Shovel Co., Pittsburg, Pa.
Indiana Shovel Co., New Castle, Ind.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Pfeifer, Jno. & Co., 222 Race, Phila., Pa.
Pittsburg Shovel Co., Pittsburg, Pa. Works: Leechburg, Pa.
Russell, J. C. Shovel Co., Pittsburg, Pa.
Wyoming Shovel Works, Wyoming, Pa.

Spoons (Measuring)

Landers, Frary & Clark ("Universal" & "Original"), New Britain, Conn.

Spoons (Rock Drilling)

Falls Mfg. Co., San Francisco, Cal.

Spoons (Strainer)

Hutchins, C. K. Co., Buffalo, N. Y.

Spoons (Telegraph)

Hussey-Binns Shovel Co. (Crucible Cast Steel), Pittsburg, Pa. Works, Charleroi, Pa.
Indiana Shovel Co., New Castle, Ind.
Maynard, C. A., Northampton, Mass.
Pittsburg Shovel Co. ("W. A. Shuster," "Armstrong"), Frick Bldg., Pittsburg, Pa. Works: Leechburg, Pa.
Union Furnace Mfg. Co., Union Furnace, Pa.

Spoons (Tin)

Atlas Mfg. Co., New Haven, Conn.
Central Stamping Co., 174 Fulton, New York
Dover Stamping & Mfg. Co., Cambridge, Mass.
Humphrey, H. W., Unionville, Conn.
Parker, Chas. Co., Meriden, Conn.
Wallace, R. & Sons Mfg. Co., Wallingford, Conn.
Yale, C. I. Mfg. Co., Yalesville, Conn.

Spoons (Wooden)

Cudworth & Platts, State Line, N. H.
Pelree, W. E. & Co., Milford, N. H.

Sporting Goods Mfrs.

(For other goods in this line see Specific Article or write us)
Chicago Sporting Goods Mfg. Co. (Base Ball, Foot Ball, Boxin, etc.), Fulton & May, Chicago, Ill.

*Sprayers (Foundry)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
OSBORN MFG. CO. (Lighting), 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)

Sprayers (Potato)

Asplnwall Mfg. Co., Jackson, Mich.
VOELKNER & HARRY MANUFACTURING Co. (Iland), 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)
Splittstoser, F. ("Splittstoser"), North Branch, Minn.

Spraying Apparatus

(See Pumps, Spraying; also Spraying Machines)

Spreaders (Concrete)

AMERICAN CONCRETE CO. (Mfrs.' Agents), 80 William, New York. (See adv. index, end of book)
Briggs Labor Saving Specialty Co. ("Briggs"), Waterloo, Pa.

*Spreaders (Glue)

ADVANCE MACHINERY CO., Toledo, O. (See adv. index, end of book)

Spreaders (Lime)

Hench & Dromgold Co., York, Pa.
Ontario Drill Co., Despatch, N. Y.
Spangler Mfg. Co., York, Pa.

Spreaders (Manure)

American Harrow Co., Detroit, Mich.
Caldwell & Drake Iron Works (Inc.), Columbus, Corn Belt Mfg. Co., Waterloo, Ia.
Independent Harvester Co., Plano, Ill.
International Harvester Co. of America, Chicago, Ill., & Auburn, N. Y.
Kemp, J. S. Mfg. Co., Newark Valley, N. Y.
Kemp & Burpee Mfg. Co., Syracuse, N. Y.
Litchfield Mfg. Co. ("King"), Waterloo, Ia.
Newark Machine Co., Newark, O.
Richardson Mfg. Co., Worcester, Mass.
Smith Mfg. Co. ("Great Western"), 158 E. Harrison, Chicago, Ill.
Rosendale Spreader Co., Rosendale, Wis.
Ross, E. W. Co., Springfield, O.
Spangler Mfg. Co. (Broadcast), York, Pa.
Waterloo Spreader Mfg. Co., Waterloo, Ia.

Spreaders (Rubber Mill)

American Tool & Machine Co., 109 Beach, Boston, Mass.
Birmingham Iron Foundry, Derby, Conn.
New England Butt Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

*Spreaders (Tar)

WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Spring Cotters & Keys

(See Cotters, Spring; also Keys, Flat Spring & Riveted)

Spring Dampener

McCord & Co. ("McCord"), Old Colony bldg, Chicago, Ill.

Spring Hinges

(See Hinges, Spring Butt)

Springs (Agricultural Implement)

(See also Springs, Machinery)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.
American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.
AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Babcock Mfg. Co., Leonardsville, N. Y.
BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Cambria Steel Co. (Gautier Dept.), Arcade bldg., Phila., Pa. Works, Johnstown, Pa.
Cleveland Wire Spring Co., Cleveland, O.
Cook Spring Co., 420 E 106th, New York
Crucible Steel Co., Frick bldg, Pittsburg, Pa.
FISCHER, CHAS. SPRING CO., 89-90 Walker, New York. (See adv. index, end of book)
FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburg, Pa.; Works: McKees Rocks, Pa. (See adv. index & branch offices, end of book)
Gibson, Wm. D. Co., 27 E. Huron, Chicago, Ill.
Harrow Spring Co. (Cultivator Sectional, etc.), Kalamazoo, Mich.
Independent Steel & Wire Co., Pittsburg, Pa.
Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., Hoboken, N. J.
Page Woven Wire Fence Co., Monessen, Pa.
Pittsburgh Spring & Steel Co., Farmers' Bank bldg, Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New York
Raymond Mfg. Co. (Ltd.) (Steel & Wire), Cor. Sabin Machine Co., Montpelier, Vt., Pa.
Vehicle & Implement Spring Co., Pontiac, Mich.
Wilson, Robt. P., 313 Market, Newark, N. J.

Springs (Air Brake)

(See Springs, Coll or Spiral)

Springs (Automobile)

(See also Springs, Various Kinds; also Shock Absorbers)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.
American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.
Burgess, Robt. & Son ("Burgess" Double Tension), Winona, Ill.
Cleveland-Canton Spring Co., Canton, O.
Cleveland Wire Spring Co. (Wire), Cleveland, Ohio
Cook Spring Co., 420 E 106th, New York
Detroit Steel Products Co., E Grand boulev & Chene, Detroit, Mich.
Detroit Wire Spring Co. (Wire), Detroit, Mich.
FISCHER, CHAS. SPRING CO., 89-90 Walker, New York. (See adv. index, end of book)
FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburg, Pa.; Works: McKees Rocks, Pa. (See adv. index & branch offices, end of book)
FRASSE, PETER A. & CO., 130 Worth, New York. (See adv. index & branch offices, end of book)
Gem Wire Fence Co., Pontiac, Mich.
Hebb, Geo. A. (Coll), Newark, N. J.
Independent Steel & Wire Co., Pittsburg, Pa.
Iron City Spring Co., Allegheny, Pa.
Kalamazoo Spring & Axle Co., Kalamazoo, Mich.
King Spring Co., Buffalo, N. Y.
Merrill, E. R. Spring Co., 530 W 28th, New York
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Morgan Spring Co., Worcester, Mass.
Palmer, Jos., 333 Rutherford av, Boston, Mass.
Penn Spring Works, Baldwinville, N. Y.
Raymond Mfg. Co. (Ltd.) (Steel & Wire), Corry, Pa.
Spring Perch Co., Bridgeport, Conn.
Supplementary Spiral Spring Co. (Spiral), St. Louis, Mo.
Triple Action Spring Co. (Triple Action), 67 21st, Chicago, Ill.
Tuthill Spring Co., 215 W Polk, Chicago, Ill.

Springs (Bed)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.
BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
Cuyahoga Spring Works, 810 Champlain, Cleveland, O.
FISCHER, CHAS. SPRING CO., 89-90 Walker, New York. (See adv. index, end of book)
Hartford Woven Wire Mattress Co., Hartford, Conn.
Independent Steel & Wire Co., Pittsburg, Pa.
Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.
Morgan Spring Co. ("Helical"), Worcester, Mass.

Springs (Bicycle)

(See Springs, Coll or Spiral)

Springs (Bolster)

(See Springs, Car)

Springs (Brush Holder)

American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.
Eureka Tempered Copper Works, North East, Pa.
FISCHER, CHAS. SPRING CO., 89-90 Walker, New York. (See adv. index, end of book)
Morgan Spring Co., Worcester, Mass.
Railway Steel Spring Co., 30 Church, New York
Vose Spring Co., 347 W B'way, New York

Springs (Car)

American Spiral & Spring Mfg. Co. (Car Truck), Pittsburg, Pa.
AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Betts Spring Co., 218 Fremont, San Francisco, Cal.
Cook Spring Co., 420 E 106th, New York
Crucible Steel Co. of America, Pittsburg, Pa.
Detroit Steel Products Co., Detroit, Mich.
Farist Steel Co., Bridgeport, Conn.
FISCHER, CHAS. SPRING CO., 89-90 Walker, New York. (See adv. index, end of book)

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburg, Pa.; Works:
McKees Rocks, Pa. (See adv. index &
branch offices, end of book)
Gibson, Wm. & Co., Huron & Kinsbury, Chi-
cago, Ill.
Harrow Spring Co. (Railway & Street Car),
Kalamazoo, Mich.
Independent Steel & Wire Co., Pittsburg, Pa.
McGuire-Cummings Mfg. Co., 112 N Sangamon,
Chicago, Ill.
Phoenix Car Spring Co. (Car & Tender), Rook-
ery bldg, Chicago, Ill. Works: Joliet, Ill.
Pittsburg Spring & Steel Co., Farmers' Bank
bldg., Pittsburg, Pa.
Railway Steel Spring Co. (Heavy, Elliptic &
Coil), 30 Church, New York
Rowland, Wm. & Harvey, Frankford, Phila.,
Pa.
Simplex Railway Appliance Co. (Coil & Ellip-
tic), Commercial Nat'l Bank Bldg., Chicago,
Ill. Works: Hammond, Ind.
Standard Steel Works, Harrison bldg, Phila.,
Pa.
Union Spring & Mfg. Co. (Coil & Elliptic),
Farmers' B'k bldg, Pittsburg, Pa.; Works:
New Kensington, Pa.
Vose Spring Co., 347 W B'way, New York

Springs (Car Fender)

(See Springs, Coil or Spiral)

Springs (Car Seat)

(See Springs, Furniture & Upholstering)

Springs (Carriage & Wagon)

Adams, E. B. & Son (Wagon), Racine, Wis.
Ansted Spring & Axle Co., Connersville, Ind.
Armstrong, J. B. Mfg. Co., Flint, Mich.
Belle City Bolster Spring Co. (Wagon), Racine,
Cleveland-Canton Spring Co., Canton, O. Wis.
Cleveland Wire Spring Co. (Bolster), E 38th
Hamilton, N E, Cleveland, O.
Concord Axle Co. ("Palmer's" Concord), Pena-
cook, N. H.

Cooper, Geo. & Co., Cleveland, O.
Delany, D. & Son, 2 Liberty, Newark, N. J.
Detroit Wire Spring Co., Detroit, Mich.
Dobbin, C. E. & Co., 172 N Halsted
Foster Bros. Mfg. Co., Utica, N. Y.
Haggard Wagon Spring Co. (Wagon), Lafayette,
Ind.

HEARTLEY MACHINE, VARIETY
Iron & Tool Works (Wagon Seat), Toledo, O.
(See adv. index, end of book)

Hess-Pontiac Spring & Axle Co., Pontiac, Mich.
Hess Spring & Axle Co., Carthage, Cincinnati.
Higgins Spring & Axle Co., Racine, Wis. Ohio
Hirsch Bros. (Bolster), Milwaukee, Wis.
Independent Steel & Wire Co., Pittsburg, Pa.
Indianapolis Bolster Spring Co., 107 S Meridian
Indianapolis, Ind.
Iron City Spring Co. (Oil Tempered), Allegheny,
Pa.

Kalamazoo Spring & Axle Co., Kalamazoo, Mich.
Keystone Spring Works, 13th & Buttonwood,
Philadelphia, Pa.

King Spring Co. (Carriage Only), Buffalo, N. Y.
Lewis Spring & Axle Co., Jackson, Mich.
Liggett Spring & Axle Co., Monongahela, Pa.
Lightbody & Foster, South & Allegheny avs,
Allegheny, Pa.

Merrill, F. B. Spring Co., 530 W 28th, New
York, & Jersey City, N. J.
Morgan Spring Co., Worcester, Mass.

Mulholland Spring Co. (Ball Bearing), Dunkirk,
N. Y.

New Haven Spring Co., New Haven, Conn.
Palmer, Jos. (Est. of), 333 Rutherford, Boston,
Mass.

Penn Spring Works, Baldwinsville, N. Y.
Pontiac Spring & Wagon Works (Bolster), Pon-
tiac, Mich.

Racine Pole & Spring Co. (Bolster), Racine, Wis.
Racine Rice Machinery Co. (Bolster), Racine,
Wis.

Rowland, Wm. & Harvey, Frankford, Phila.,
Pa.
Sheldon Axle Co., Wilkesbarre, Pa.

Spring Perch Co. (Carriage Only), Bridgeport,
Conn.
Studebaker Bros., Mfg. Co. (Wagon & Bolster),
South Bend, Ind.

Tuthill Spring Co., 215 W Polk, Chicago, Ill.
Vehicle & Implement Spring Co., Pontiac, Mich.

Wurster, Fred. W. & Co., 375 Kent av, Brook-
lyn, N. Y.

Springs (Children's Carriage, Etc.)

American Spring & Supply Co., 145-147 John-
son, Brooklyn, N. Y.

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

HEARTLEY MACHINE, VARIETY
Iron & Tool Works, Toledo, O. (See adv.
index, end of book)

Wagner, E. R. Mfg. Co., North Milwaukee, Wis.

Springs (Clock, Music Box, Etc.)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)

Cary Spring Works, 240 W 29th, New York
Cook Spring Co., 420 E 106th, New York
Dunbar Bros. Co., Bristol, Conn.

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburg, Pa.; Works:
McKees Rocks, Pa. (See adv. index &
branch offices, end of book)

Independent Steel & Wire Co., Pittsburg, Pa.
Mauros, F. N., Forestville, Conn.
Morgan Spring Co., Worcester, Mass.

New York Wire & Spring Co., 73 Park av,
Hoboken, N. J.

Springs (Coil or Spiral)

American Spiral Spring & Mfg. Co., Pittsburg,
Pa.

American Spring & Supply Co., 145-147 John-
son, Brooklyn, N. Y.

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)

Barnes, Wallace Co. (Small, All Kinds), Bris-
tol, Conn.

Cary Spring Works, 240 W 29th, New York
Chatillon, Jno. & Sons (Cast Steel), 85 Cliff,
New York

Cleveland Wire Spring Co., Cleveland, O.
Cook Spring Co., 420 E. 106th, New York.

Cooper, Geo. & Co., Cleveland, O.
Crucible Steel Company of America (All Kinds
of Coil), Pittsburg, Pa.

Detroit Steel Products Co. ("Harvey" Fric-
tion Draft), Detroit, Mich.
Detroit Wire Spring Co. (Wire), Detroit, Mich.

Dunbar Bros. Co. (Small Sheet Steel & Brass
Wire), Bristol, Conn.

Eureka Spring Co., 347 W B'way, New York
Farist Steel Co. (Car, etc.), Bridgeport, Conn.

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg, Pittsburg, Pa.; Works:
McKees Rocks, Pa. (See adv. index &
branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.

Harrow Spring Co., Kalamazoo, Mich.

Hebb, Geo. A. (Coil), Newark, N. J.

Independent Steel & Wire Co., Pittsburg, Pa.

Insull, Thos., 1429 Hutchinson, Phila., Pa.

Ludlow-Saylor Wire Co., St. Louis, Mo.

McGuire-Cummings Mfg. Co., 112 N Sangamon,
Chicago, Ill.

Meyer & Co., Auburn, N. Y.

Miffler & Van Winkle, 18 Bridge, Brooklyn,

Morgan Spring Co., Worcester, Mass. N. Y.

New York Wire & Spring Co., Hoboken, N. J.

Pittsburgh Spring & Steel Co. (Car, etc.), Far-
mers' Bank bldg, Pittsburg, Pa.

Preece, Wm. F. (Spiral), Reading, Pa.

Railway Steel Spring Co. (Light & Heavy), 30
Church, New York

Raymond Mfg. Co. (Ltd.) (Steel & Wire), Cor-
ry, Pa.

Sabin Machine Co. (Organ, etc.), Montpelier,
Sheldon Axle Co., Wilkes-Barre, Pa. Vt.

Shuler, D. W. & Son, Amsterdam, N. Y.

Silver, Wm. S. & Co., 347 W B'way, New York

Simplex Railway Appliance Co. (Car & Locomo-
tive), Commercial Nat. Bk. bldg, Chicago,
Ill. Works: Hammond, Ind.

Taylor Electric Truck Co. (Coil Only), Troy,
N. Y.

Tuthill Spring Co., 215 W Polk, Chicago, Ill.

Ventilated Cushion & Spring ("Rough
Rider"), 1514 Euclid av, Cleveland, O.

Union Spring & Mfg. Co. (Car & Machinery),
Farmers' B'k bldg, Pittsburg, Pa.; Works:
New Kensington, Pa.

Vose Spring Co., 347 W B'way, New York

Wilson, Robt. P., 313 Market, Newark, N. J.

*Springs (Compression)

(See also Springs, Extension & Compression)

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

Springs (Cultivator)

(See Springs, Agricultural Implement)

Springs (Curtain)

Morgan Spring Co., Worcester, Mass.

Springs (Door)

American Spiral Spring & Mfg. Co., Pittsburg,
Pa.

American Spring & Snpply Co., 145-147 John-
son, Brooklyn, N. Y.

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VANADIUM STEEL SPRINGS

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Offices, FARMERS BANK BLDG., PITTSBURG

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Steel & Railway Supply Co.	Boston, Mass.
W. R. Jacques & Company	New York, N. Y.
Sloan-Howell & Company	Philadelphia, Pa.
Universal Railway Supply Co.	Baltimore, Md.
John J. Reilly & Company	Columbus, Ohio
Railway Specialty & Supply Co.	Chicago, Ill.
B. C. Watts & Company	Denver, Colo.
William R. Jacques	Kansas City, Mo.
Railway Supply & Equipment Co.	Atlanta, Ga.

AMERICAN STEEL & WIRE CO.

Commercial Nat'l Bank bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)
Arcade Mfg. Co. ("Warner" & "Perfect"), Freeport, Ill.

Chatillon, John & Sons, 85 Cliff, New York
Chicago Spring Butt Co., 54 Union Park pl, Chicago, Ill.

Cleveland Wire Spring Co., Cleveland, O.
Columbian Hardware Co., Cleveland, O.
Cuyahoga Spring Works (Screen Door), 810 Champlain, Cleveland, O.

FISCHER, CHAS. SPRING CO., 89-90

Walker, New York. (See adv. index, end of book)

Hayward, S. F. & Co. (Engine House), 39 Park Pl, New York

Independent Steel & Wire Co., Pittsburg, Pa.

Middletown Mfg. Co. ("Geran"), Middletown, Ohio

Miller & Van Winkle, 18 Bridge, Brooklyn, N. Y.

Morgan Spring Co. ("Perfection" & "Morgan"), Worcester, Mass.

Peck, Stow & Wilcox Co., Southington, Conn.

Phoenix Hdw. Mfg. Co. (Coil), Homer, N. Y.

Pullman Mfg. Co., Rochester, N. Y.

Raymond Mfg. Co. (Ltd.), Corry, Pa.

Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York

Sabin Machine Co., Montpelier, Vt.

Union Mfg. Co., New Britain, Conn.

Wire Goods Co. ("Perfection"), Worcester, Mass.

Springs (Draft)

Beecher Draught Spring Co., New Haven, Conn.

Crucible Steel Company of America, Pittsburg, Pa.

Detroit Steel Products Co. ("Harvey" Friction Draft), Detroit, Mich.

FISCHER, CHAS. SPRING CO., 89-90

Walker, New York. (See adv. index, end of book)

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburg, Pa.; Works: McKees Rocks, Pa. (See adv. index & branch offices, end of book)

Hayward, S. F. & Co., 39 Park Pl, New York

Morgan Spring Co., Worcester, Mass.

Railway Steel Spring Co., 30 Church, New York

Raymond Mfg. Co. (Ltd.), Corry, Pa.

Springs (Elliptic)

Cleveland-Canton Spring Co., Canton, O.

Cooper, George & Co., Western Reserve bldg, Cleveland, O.

Crucible Steel Company of America, Pittsburg, Pa.

Delaney & Son, Newark, N. J.

Farist Steel Co. (For Railroad Cars), Bridgeport, Conn.

FISCHER, CHAS. SPRING CO., 89-90

Walker, New York. (See adv. index, end of book)

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburg, Pa.; Works: McKees Rocks, Pa. (See adv. index & branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.

Hess Spring & Axle Co. (Platform & Concord), Carthage, Cincinnati, O.

Insull, Thomas, 1429 Hutchinson, Phila., Pa.

Iron City Spring Co., Allegheny, Pa.

Kalamazoo Spring & Axle Co. (For Farm Wagon Seats), Kalamazoo, Mich.

Keystone Spring Works, 13th & Buttonwood, Philadelphia, Pa.

Latrobe Steel Co., Girard bldg, Phila., Pa.

Merrill, E. R. Spring Co., 530 W 28th, New York

Morgan Spring Co., Worcester, Mass.

Pittsburgh Spring & Steel Co. (Car & Locomotive, Traction Car), Farmers' Bank bldg, Pittsburg, Pa.

Railway Steel Spring Co. (Car & Locomotive), 30 Church, New York

Rowland, Wm. & Harvey (Inc.), Frankford Philadelphia, Pa.

Sheldon Axle Co., Wilkes-Barre, Pa.

Shuler, D. W. & Son, Amsterdam, N. Y.

Silver, Wm. S. & Co., 347 W B'way, New York

Simplex Railway Appliance Co. (Car & Locomotive), Commercial Nat'l Bank bldg, Chicago, Ill.

Standard Steel Works Co. (Car & Locomotive), Harrison bldg, Phila., Pa.

Taylor Electric Truck Co., Troy, N. Y.

Tuthill Spring Co., 215 W Polk, Chicago, Ill.

Union Spring & Mfg. Co. (Locomotive & Railway Equipment), Farmers Bank bldg, Pittsburg, Pa.

Vose Spring Co., 347 W B'way, New York

Springs (Engine House Door)

American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.

FISCHER, CHAS. SPRING CO., 89-90

Walker, New York. (See adv. index, end of book)

Morgan Spring Co., Worcester, Mass.

Myer, Benj. Co., 470 Broad, Newark, N. J.

Springs (Extension & Compression)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.

American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.

AMERICAN STEEL & WIRE CO.

Commercial National Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)**BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)**

Cook Spring Co., 420 E 106th, New York

Crucible Steel Company of America, Pittsburg, Pa.

FISCHER, CHAS. SPRING CO., 89-90

Walker, New York. (See adv. index, end of book)

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburg, Pa.; Works: McKees Rocks, Pa. (See adv. index & branch offices, end of book)

Miller & Van Winkle ("Eagle"), 18 Bridge, Brooklyn, N. Y.

Morgan Spring Co., Worcester, Mass.

Railway Steel Spring Co., 30 Church, New York

Raymond Mfg. Co. (Ltd.), Corry, Pa.

Springs (Fish Plate)

(See Lock Nuts)

***Springs (Friction Draft)**

(See also Springs, Draft)

FISCHER, CHAS. SPRING CO., 89-90

Walker, New York. (See adv. index, end of book)

Springs (Furniture & Upholstering)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.

AMERICAN STEEL & WIRE CO.

Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)

Cuyahoga Springs Works, 810 Champlain, Cleveland, O.

Detroit Wire Spring Co., Detroit, Mich.

Independent Steel & Wire Co., Pittsburg, Pa.

Morgan Spring Co., Worcester, Mass.

New York Wire & Spring Co., Hoboken, N. J.

Page Woven Wire Fence Co., Monessen, Pa.

Staples & Hanford Co., Newburgh, N. Y.

Springs (Gate)

(See Springs, Coil, Etc.)

Springs (Governor)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.

American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.

FISCHER, CHAS. SPRING CO., 89-90

Walker, New York. (See adv. index, end of book)

FORT PITT SPRING & MFG. CO., Farmers' B'k bldg, Pittsburg, Pa.; Works: McKees Rocks, Pa. (See adv. index & branch offices, end of book)

Independent Steel & Wire Co., Pittsburg, Pa.

Morgan Spring Co., Worcester, Mass.

Railway Steel Spring Co., 30 Church, New York

Springs (Grain Drill)

(See Springs, Agricultural Implement)

Springs (Hair)

Manross, F. N. ("Manross" Non-Magnetic for Marine Clocks, Steam Gauges, Electrical Instruments, etc.), Forestville, Conn.

Springs (Helical)**BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)**

Cook Spring Co., 420 E 106th, New York

Crucible Steel Company of America, Pittsburg, Pa.

FISCHER, CHAS. SPRING CO., 89-90

Walker, New York. (See adv. index, end of book)

FORT PITT SPRING & MFG. CO., Farmers' Bank bldg, Pittsburg, Pa.; Works: McKees Rocks, Pa. (See adv. index & branch offices, end of book)

Independent Steel & Wire Co., Pittsburg, Pa.

Morgan Spring Co., Worcester, Mass.

**IMPORTANT**

When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible.

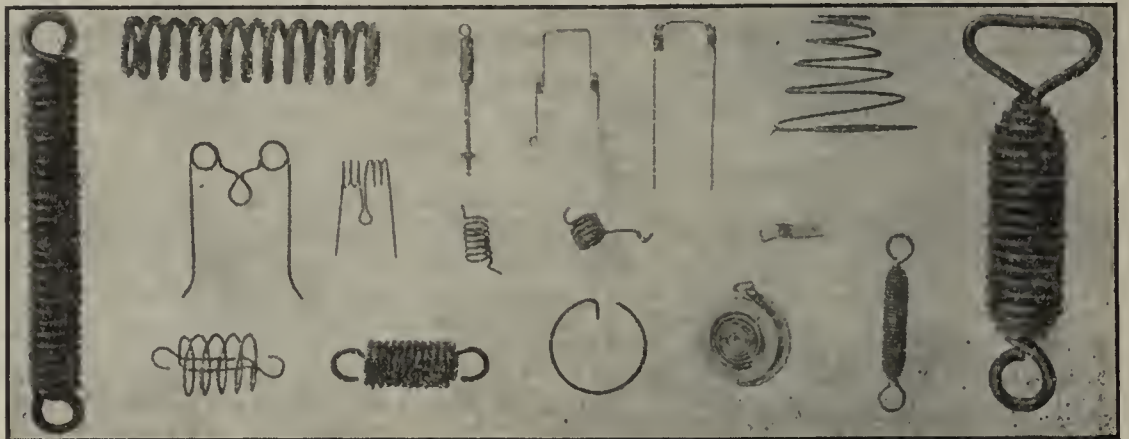
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(See Springs, Car)

Springs (Machinery)

(See also Springs, Agricultural Implement)

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American Spring & Supply Co., 145-147 John-
son, Brooklyn, N. Y.

AMERICAN STEEL & WIRE CO.

Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)
Barnes, Wallace Co., Bristol, Conn.

Cary Spring Works, 240 W. 29th, New York
Cleveland Wire Spring Co., Cleveland, O.
Cook Spring Co., 420 E. 106th, New York
Crucible Steel Company of America, Pittsburg, Pa.

Cuyahoga Spring Works, Cleveland, O.

Dunbar Bros. Co., Bristol, Conn.

Eureka Spring Co., 347 W B'way, New York

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg., Pittsburg, Pa.; Works:
McKees Rocks, Pa. (See adv. index &
branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Harrow Spring Co., Kalamazoo, Mich.

Hebb, Geo. A., Newark, N. J.

Independent Steel & Wire Co., Pittsburg, Pa.

Miller & Van Winkle, 18 Bridge, Bklyn, N. Y.
Morgan Spring Co., Worcester, Mass.

New York Wire & Spring Co., Hoboken, N. J.
Pittsburgh Spring & Steel Co., Farmers' Bank
bldg., Pittsburg, Pa.

Railway Steel Spring Co., 30 Church, New
York
Raymond Mfg. Co. (Ltd.), Corry, Pa.

Sabin Machine Co., Montpelier, Vt.
Union Spring & Mfg. Co. (Coll.), Farmers Bank
bldg., Pittsburg, Pa.; Works: New Kensing-
ton, Pa.

Vose Spring Co., 347 W B'way, New York

Springs (Oil Tempered)

American Spring & Supply Co., 145-147 Johnson,
Brooklyn, N. Y.

Chatillon, Jno. & Sons, 85 Cliff, New York

Cook Spring Co., 420 E 106th, New York
Crucible Steel Company of America, Pittsburg, Pa.

Dunbar Bros. Co. (Clock, etc.), Bristol, Conn.
Detroit Steel Products Co., Detroit, Mich.

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg., Pittsburg, Pa.; Works:
McKees Rocks, Pa. (See adv. index &
branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Miller & Van Winkle, 18 Bridge, Bklyn, N. Y.

Morgan Spring Co., Worcester, Mass.
New York Wire & Spring Co., Hoboken, N. J.

Railway Steel Spring Co., 30 Church, New
York
Sabin Machine Co., Montpelier, Vt.

Union Spring & Mfg. Co. (Coll.), Farmers Bank
bldg., Pittsburg, Pa.; Works: New Kensing-
ton, Pa.

Vose Spring Co., 347 W B'way, New York

Springs (Organ)

Sabin Machine Co., Montpelier, Vt.

Springs (Pipe Bending)

Cleveland Wire Spring Co., Cleveland, O.

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

Independent Steel & Wire Co., Pittsburg, Pa.
Morgan Spring Co., Worcester, Mass.

Raymond Mfg. Co. (Ltd.) (Plumbers'), Corry, Pa.
Vose Spring Co., 347 W B'way, New York

Springs (Refrigerator, Door)

Roller Bar Door Closer Co., Springfield, Mass.

Springs (Rubber)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Canfield, H. O. Co., Bridgeport, Conn.
Consolidated Rubber Co., Trenton, N. J.

Continental Rubber Works, Erie, Pa.
DIAMOND RUBBER CO., Akron, O.
(See adv. index, end of book)

Elkhart Rubber Works, Elkhart, Ind.
Empire Rubber Mfg Co., Trenton, N. J.

Faultless Rubber Co., Ashland, O.
Goodrich, B. F. Co., Akron, O.

Hamilton Rubber Mfg. Co., Trenton, N. J.
Home Rubber Co., Trenton, N. J.

Manhattan Rubber Mfg. Co., 18 Vesey, New
York, & Passaic, N. J.

Mechanical Rubber Co., 73 Rende, New York
Morgan & Wright, Inc. (Car, Wagon, etc.),
Detroit, Mich.

National India Rubber Co., Bristol, R. I.
N. J. Car Spring & Rubber Co., Jersey City,
N. J.

New York Belting & Packing Co. (Ltd.), 91
Chambers, New York

New York Rubber Co., 84 Rende, New York

PENNSYLVANIA RUBBER CO., Jean-
nette, Pa. (See adv. index & branch of-
fices, end of book)

Republic Rubber Co., Youngstown, O.
Stokes, Jos. Rubber Co., Trenton, N. J.

Thermoid Rubber Co., Trenton, N. J.
United & Globe Rubber Mfg. Co., Trenton, N. J.

Whitehead Bros. Rubber Co., Trenton, N. J.
Wilkie Rubber Mfg. Co., Saugus, Mass.

Springs (Rubber Channeler)

Continental Rubber Works, Erie, Pa.
DIAMOND RUBBER CO., Akron, O.
(See adv. index, end of book)

Goodrich, B. F. Co., Akron, O.
Morgan & Wright, Inc. (For Quarrying Ma-
chinery), Detroit, Mich.

PENNSYLVANIA RUBBER CO., Jean-
nette, Pa. (See adv. index & branch of-
fices, end of book)

Springs (Small)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.

American Spring & Supply Co., 145-147 John-
son, Brooklyn, N. Y.

AMERICAN STEEL & WIRE CO.

Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)

Cary Spring Works, 240 W 29th, New York
Cleveland-Canton Spring Co., Canton, Mich.

D'Arcy Spring Co. (Cushion), Kalamazoo, Mich.
Dunbar Bros. Co., Bristol, Conn.

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg., Pittsburg, Pa.; Works:
McKees Rocks, Pa. (See adv. index &
branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Independent Steel & Wire Co., Pittsburg, Pa.

Jackson Cushion Spring Co. (Seat & Back
Springs), Jackson, Mich.

Miller & Van Winkle, 18 Bridge, Brooklyn,
N. Y.

Morgan Spring Co., Worcester, Mass.

National Spring & Wire Co., Albion, Mich.
Peck & Way Mfg. Co., Forestville, Conn.

Railway Steel Spring Co., 30 Church, New
York

Raymond Mfg. Co. (Ltd.), Corry, Pa.
Trenton Spring Mattress Co., Trenton, N. J.

Wallace-Barnes Co., Bristol, Conn.
Windsor Spring Co. (Cushion), Kenosha, Wis.

Wing, Chas. Co. (Cushion), Amherst, Mass.

*Springs (Spiral)

(See Springs, Coil or Spiral)

Springs (Switch and Signal)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

Railway Steel Spring Co., 30 Church, New
York

Harrow Spring Co., Kalamazoo, Mich.

Springs (Track Scraper)

Harrow Spring Co., Kalamazoo, Mich.

Springs (Trolley)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.

American Spring & Supply Co., 145-147 John-
son, Brooklyn, N. Y.

AMERICAN STEEL & WIRE CO.
Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)

Cary Spring Works, 240 W 29th, New York
Cleveland Wire Spring Co., Cleveland, O.

Cook Spring Co., 420 E. 106th, New York
Crucible Steel Company of America, Pittsburg, Pa.

Eureka Spring Co., 347 W B'way, New York

FISCHER, CHAS. SPRING CO., 89-90
Walker, New York. (See adv. index, end
of book)

FORT PITT SPRING & MFG. CO., Farm-
ers' Bank bldg., Pittsburg, Pa.; Works:
McKees Rocks, Pa. (See adv. index &
branch offices, end of book)

Gibson, Wm. D. Co., 27 E Huron, Chicago, Ill.
Independent Steel & Wire Co., Pittsburg, Pa.

Merrill, E. R. Spring Co., 530 W 28th, New
York

Miller & Van Winkle, 18 Bridge, Bklyn, N. Y.
Morgan Spring Co., Worcester, Mass.

Pittsburg Spring & Steel Co., Pittsburg, Pa.
Railway Steel Spring Co., 30 Church, New
York

Raymond Mfg. Co. (Ltd.), Corry, Pa.

Vose Spring Co., 347 W B'way, New York

Springs (Valve)

(See Springs, Coil or Spiral)

Springs (Window)

American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.
 Barnes, Wallace Co., Bristol, Conn.
 Dunbar Bros. Co., Bristol, Conn.
 Eagan, Thos. F., Worcester, Mass.
FISCHER, CHAS. SPRING CO., 89-90
 Walker, New York. (See adv. index, end of book)

Morgan Spring Co., Worcester, Mass.

Peck, Stow & Wilcox Co., Southington, Conn.
STANLEY WORKS ("Sweets" & "Jenks"), New Britain, Conn. (See adv. index & branch offices, end of book)

***Springs (Window Burglar Alarm)**

FISCHER, CHAS. SPRING CO., 89-90
 Walker, New York. (See adv. index, end of book)

Springs (Wire)

American Spiral Spring & Mfg. Co., Pittsburg, Pa.
 American Spring & Supply Co., 145-147 Johnson, Brooklyn, N. Y.
AMERICAN STEEL & WIRE CO.
 Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Barnes, Wallace Co., Bristol, Conn.
BRIDGEPORT CHAIN CO., Bridgeport, Conn. (See adv. index, end of book)
 Cary Spring Works, 240 W 29th, New York
 Chatillon, John & Sons (Cast Steel), 85 Cliff, New York

Cleveland Wire Spring Co., Cleveland, O.
 Cook Spring Co., 420 E. 106th, New York
 Crucible Steel Company of America, Pittsburg, Detroit Wire Spring Co., Detroit, Mich. Pa.
 Dunbar Bros. Co. (Clock, etc.), Bristol, Conn.
FISCHER, CHAS. SPRING CO., 89-90
 Walker, New York. (See adv. index, end of book)

FORT PITT SPRING & MFG. CO., Farmers' Bank Bldg., Pittsburg, Pa.; Works: McKees Rocks, Pa. (See adv. index & branch offices, end of book)

Gaynor & Mitchell Mfg. Co. (Spiral), Bridgeport, Conn.
 Independent Steel & Wire Co. (All Kinds), Pittsburg, Pa.

Ludlow-Saylor Wire Co., St. Louis, Mo.
 Miller & Van Winkle, 18 Bridge, Bklyn, N. Y.
 Morgan Spring Co., Worcester, Mass.
 New York Wire & Spring Co., Hoboken, N. J.
 Pittsburgh Spring & Steel Co., Farmers' Bank bldg, Pittsburg, Pa.

Railway Steel Spring Co., 30 Church, New York
 Raymond Mfg. Co. (Ltd.), Corry, Pa.
 Sabin Machine Co., Montpelier, Vt.
 Tuck Mfg. Co., Brockton, Mass.
 Washburn Wire Co. (Clock, etc.), Philippsdale, R. I., & 26 Cortlandt, New York
 Wire Goods Co., 20 Union, Worcester, Mass.

Sprinklers (Automatic Fire)

BALTIMORE COOPERAGE CO., THE, c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

CALDWELL, W. E. CO. (Complete Plants Erected), Brook & D. Louisville, Ky. (See adv. index, end of book)

Collins, J. G. (Installations), 175 E 116th, New York

Esty Sprinkler Co., N Mill, Laconia, N. H.

Foskett & Bishop Co., New Haven, Conn.

Francis Bros., & Jelliet (Inc.), 245 N Broad, Phila., Pa., & 47 E 18th, New York
 General Fire Extinguisher Co. ("Grinnell"), Providence, R. I.

Independent Fire Sprinkler Co., 515 Diversey boui, Chicago, Ill.

International Sprinkler Co. (Wet & Dry Pipe Systems), 517 Arch, Phila., Pa.
 Manufacturers' Automatic Sprinkler Co. ("Non-Corrosive"), 1 Liberty, New York

Niagara Fire Extinguisher Co., Akron, O.
 Rockwood Sprinkler Co. ("Rockwood"), Worcester, Mass.

SIMMONS, JNO. CO., 106 Centre, New York. (See adv. index, end of book)

Swan & Sons, 163 Oliver, Boston, Mass.
 Vogel, H. G. Co., 12 Walker, New York
 Walworth Mfg. Co., 132 Federal, Boston, Mass.

Sprinklers (Hose, Etc.)

Boekel, Wm. & Co., 518 Vine, Phila., Pa.
 Elkhart Brass Mfg. Co. ("Hoosier" & "Acme")
 Elkhart, Ind

Sprinklers (Lawn)

(See Lawn Sprinklers)

Sprinklers (Park)

Clow, Jas. B. & Sons ("Ryan" Arm Revolving Spray, etc.), 342 Franklin, Chicago, Ill.

Sprinklers (Potato)

Aspinwall Mfg. Co., Jackson, Mich.
 Deming Co., Salem, O.
 Hurst, H. L. Mfg. Co., Canton, O.
 Nowvlock, J. H. & Sons, Bloomsburg, Pa.
 Peppier, Thomas (Two Row), Hightstown, N. J.
 Potato Implement Co., Traverse City, Mich.
 Shangle, John R., Hightstown, N. J.
 Steltz, J. R., Cudahy, Wis.

Sprinkling Cars (Street Railway)

(See Cars, Sprinkling, Street Railway)

Sprocket Wheels

(See Wheels, Sprocket)

Sprockets (Roller & Block Chain)

Cullman Wheel Co., 1019 Dunning, Chicago, Ill.

Spuds (Electric)

Buckeye Mfg. Co., Canton, O.

Spun Cotton

(See Oakum)

Spurs & Points (Ladder)

Brewer Bros. (Wrought Steel), 614 Filbert Phila., Pa.

Square & Gauge Combined

Stanley Rule & Level Co., New Britain, Conn., & 107 Chambers, New York

Squares (Bevel)

Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)

Squares (Caliper)

Billings & Spencer Co., Hartford, Conn.
 Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO.,
 133 4th av, New York. (See adv. index, end of book)
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)

Squares (Center)

Brown & Sharpe Mfg. Co., Providence, R. I.
HAMMACHER, SCHLEMMER & CO.,
 133 4th av, New York. (See adv. index, end of book)
 Hoggson & Pettis Mfg. Co. ("Carr's"), New Haven, Conn.
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)

Squares (Combination)

Athol Machine Co., Athol, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Crookston Tool Co. ("A. B. C." Protractor Square), Crookston, Minn.
 Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
 Goodell-Pratt Co. (Carpenters, etc.), Greenfield, Mass.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)

Squares (Iron & Steel)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Cassidy-Fairbank Mfg. Co. (Steel Only), 6106 La Salle, Chicago, Ill.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.

Eagle Square Mfg. Co. (Carpenters), S. Shaftsbury, Vt.

Forsyth Mfg. Co. (Metal), Buffalo, N. Y.
 Nicholls Mfg. Co. (Framing), Ottumwa, Iowa
 Peck, Stow & Wilcox Co., Southington, Conn.
 Russell & Erwin Mfg. Co., New Britain, Conn., & 96 Lafayette, New York
 Sargent & Co., New Haven, Conn., & 94 Center, New York

Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Southington Cutlery Co. (Carpenters'), Southington, Conn.

Stanley Rule & Level Co., New Britain, Conn., & 107 Chambers, New York

Squares (Machinists')

Athol Machine Co., Athol, Mass.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
HAMMACHER, SCHLEMMER & CO.,
 133 4th av, New York. (See adv. index, end of book)

Hoggson & Pettis Mfg. Co. ("Carr's"), New Haven, Conn.

Sawyer Tool Mfg. Co., Fitchburg, Mass.
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)

Squares ("T")

Dietzgen, Eugene Co., 181 Monroe, Chicago, Ill.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Emmert Mfg. Co. ("Tec" Vertical), Waynesboro, Pa.
HAMMACHER, SCHLEMMER & CO.,
 (Wooden), 133 4th av., New York. (See adv. index, end of book)
 Keuffel & Esser Co., 127 Fulton, New York
 Rich, J. & G. (Protractor), 122 N 6th, Phila., Pa.

SOLTMANN, E. G.

(& Perspective Curves for Drafting; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York.
 York. (See adv. index, end of book)
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)
 Welch, T. F. & Co. (Steel Blade), 65 Sudbury, Boston, Mass.
 Wyke, J. & Co., East Boston, Mass.

Squares (Try & Mitre)

Athol Machine Co., Athol, Mass.
 Atkins, E. C. & Co. (Inc.), Indianapolis, Ind.
 Brown & Sharpe Mfg. Co., Providence, R. I.
 Disston, Henry & Sons (Inc.), Tacony, Phila., Pa.
 Goodell-Pratt Co. (All Steel), Greenfield, Mass.
HAMMACHER, SCHLEMMER & CO.,
 133 4th av, New York. (See adv. index, end of book)

Mayhew, H. H. Co. (Try Square & Butt Gauge Combined), Shelbourne Falls, Mass.

Nicholls Mfg. Co. (Bevel-Try), Ottumwa, Ia.
 Sawyer Tool Mfg. Co., Fitchburg, Mass.
 Southington Cutlery Co., Southington, Conn.
 Stanley Rule & Level Co., New Britain, Conn.
STARRETT, L. S. CO., Athol, Mass.
 (See adv. index & branch offices, end of book)

Squeezers (Lemon)

Arcade Mfg. Co. ("Arcade" Stationary, "Champion" Stationary, "20th Century" Beef, Lemon, Onion & Fruit, "Last Drop," "Perfect," "Royal Lines," "Union," "Drum" Pattern & "X-Ray"), Freeport, Ill.
 Erie Specialty Co. ("Walkers"), Erie, Pa.
 Estes, E. B. & Sons, 74 Warren, New York
 Fanning, J. P. ("Fanning"), 678 Jefferson av, Brooklyn, N. Y.

Gilchrist Co. ("Yankee," "Lindon," Aluminum, Porcelain & Wood), Newark, N. J.
 Griswold Mfg. Co. ("Classic"), Erie, Pa.
 Hart Mfg. Co. ("Easy"), Unionville, Conn.
 Hardware & Woodenware Mfg. Co. ("Crescent," "Full Moon," "Diamond," "Bess," "Star," "Brighton," "American Queen," "Gem," "Union" & "Samson"), 693 B'way, New York

Hutchinson, Homer H. (Wood), Bristol, N. H.
 Lunders, Frary & Clark ("Little Giant," "Crown" & "L. F. C."), New Britain, Conn.

Metal Finishing Co. ("Eclipse"), Union City, Conn.

Mosteller Mfg. Co. ("Mosteller"), 5 W Madison, Chicago, Ill.

Parker, Chas. Co., Meriden, Conn.
 Penn Hardware Co. ("Penn"), Reading, Pa.
 Redlich Mfg. Co. (Aluminum, Wooden Bowl, etc.), 2 Oak, Chicago, Ill.

Rocky Hill Hardware Co. ("Leader"), Rocky Hill, Conn.
 Schoeffel, B. S. (Aluminum & Wooden Bowl), 212 Seminary av., Chicago, Ill.
 Sommer's Jno. Son (Wooden, etc.), Newark, N. J.
 Tucker & Dorsey Mfg. Co. (Wooden), Indianapolis, Ind.
 Union Porcelain Works (Iron Frame, Porcelain Ball & Bowl), 300 Eckford, Brooklyn, N. Y.
 Wrightsville Hardware Co., Wrightsville, Pa.

Squeezers (Rotary)

Danville Foundry & Machine Co., Danville, Pa.
 Garrison, A. Foundry Co., Pittsburgh, Pa.
 Lewis Foundry & Machine Co., Coraopolis, Pa.
 Philadelphia Roll & Machine Co. (Puddle Ball), S 23d & Wash'n av., Phila., Pa.
 Sterritt-Thomas Foundry Co., Pittsburgh, Pa.
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburgh, Pa.

Squibs (Miners')

Luzerne Cap Co. ("Sure Shot"), Wilkesbarre, Pa.
 Miners' Supply Co. ("Daddow & Beadles"), St. Clair, Schuylkill Co., Pa.
 Powell, Jno. R. ("Powell"), Plymouth, Pa.

Stable Fixtures

(Those who manufacture a full line, such as Stalls, Etc., are indicated by a §)

Abendroth Bros., 109 Beekman, New York
 American Fence & Forge Co., Dayton, O.
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill.
 Barber Mfg. Co. (Cast Iron Feed Boxes, Cesspools, Hay Racks, etc.), Ashtabula, O.
 Barnum, E. T. Wire & Iron Works, 82 Washington av., Detroit, Mich.
 Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.
BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)

Broad Gange Iron Stall Works, 53 Elm, Boston, Mass.
 §Bnch, A. Sons Co. (Make Full Line), Elizabethtown, Pa.

CANTON FOUNDRY & MACHINE CO. (Racks, Feed Boxes, Gutters, etc.), Canton, O. (See adv. index, end of book)

CENTRAL FOUNDRY CO. (Cast Iron) Feed Boxes, Hay Racks, Drains, etc.), 37 Wall, New York. (See adv. index, end of book)

CHAMPION IRON CO., Kenton, O. (See adv. index, end of book)
 §Cheney, S. & Son (Hay Racks, Mangers, etc.), Manlius, N. Y.

CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)

COLUMBIA IRON & WIRE WORKS Co., Canton, O. (See adv. index, end of book)

COLUMBUS WIRE & IRON WORKS. Co., Columbus, O. (See adv. index, end of book)

Creswell, S. J. Iron Works, 23rd & Cherry, Phila., Pa.

ESTEY WIRE WORKS CO., 59 Fulton, N. Y. (See adv. index, end of book)
 §Fiske, J. W. Iron Works, 56 Park Pl, New York

Glenn Mfg. Co. (Cesspools, Gutters, etc.), St. Charles, Ill.

HANKE IRON & WIRE WKS., 1234 Fillmore, Chicago, Ill. (See adv. index, end of book)

Hitzeroth, Edward, 3124 Market, Phila., Pa.
 §Jones, M. D. & Co., 71 Portland, Boston, Mass.

JONES, WILLIS H., Utica, N. Y.
LONDON, E. R. IRON & WIRE Works, 18 N May, Chicago, Ill. (See adv. index, end of book)

Lindstam, S. F. ("American" Sanitary Stalls), 2615 N Aldrich av., Minneapolis, Minn.

Logan, Martin, 1632 B'way, New York
 Ludlow-Saylor Wire Co., St. Louis, Mo.
 Lynn Stall Co. (All Kinds), Lynn, Mass.
 Mack Iron Works Co., Sandusky, O.

§Mott, J. L. Iron Works, 118 5th av, New York

MEYERS, FRED. J. MFG. CO., Ham- ilton, O. (See adv. index, end of book)
 Northwestern Foundry, S Minneapolis, Minn.
§SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

§Smyser, Royer Co., York, Pa., & Baltimore, Md.

Snead Architectural Iron Works, Louisville, Ky.

§SNOW, W. A. IRON WORKS, 19 Port- land, Boston, Mass.

STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)

Stuart & Peterson Co. (Galvanized Feed Man- gers), Burlington, N. J.

§Swett, A. L. Iron Works, Medina, N. Y.

TAYLOR & DEAN, Penn av. & 25th, (See adv. index & branch offices, end of book)

TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

§VAN DORN IRON WORKS CO., 2685 N 79th, Cleveland, O. (See adv. index, end of book)

VULCAN CO., Detroit, Mich. (See adv. index, end of book)

Washington Iron Works, Buffalo, N. Y.

§Westervelt, A. B. & W. T., 102 Chambers, New York

White Bros. Mfg. Co., Denver, Col.

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Youngstown Wire & Iron Co., Youngstown, O.

Stable or Stall Floors

FLEMING & CO. (Adamantine Clink- er Brick), 253 B'way, New York. (See adv. index, end of book)

LINDSTAM, S. F. ("American" Sanitary Stalls), 2615 N Aldrich av., Minneapolis, Minn.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Schouler, W. W. (Sanitary), 45 Clinton, New- ark, N. J.

SNOW, W. A. IRON WORKS ("Snow's" Sanitary Stall Floor), 19 Portland, Boston, Mass.

Stackers (Hay)

Acme Harvester Co., Peoria, Ill.
 Anderson, Martin Co., Omaha, Neb.
 Dain Mfg. Co. (Automatic), Ottumwa, Ia.

Eureka Mfg. Co., Chariton, Ia.
 Famous Mfg. Co. (Swinging), E. Chicago, Ind.
 Fleming & Sons Mfg. Co. (Swinging), Hunts- ville, Mo.

International Harvester Co. of America, Chi- cago, Ill. Osborne Plant: Auburn, N. Y.
 Jenkins Hay Rake & Stacker Co., Chillicothe, Mo.

Kansas City Hay Press Co., Kansas City, Mo.
 McCall Mfg. Co., Moberly, Mo.

Pella Stacker Co., Pella, Iowa
 Plattner Implement Co., Denver, Colo.
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Stackers (Lumber)

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Anderson Company ("Automatic & Over- shot"), St. Paul, Minn.

Avery Co. (Automatic), Peoria, Ill.

Birdsell Mfg. Co., South Bend, Ind.

Buffalo Pitts Co. ("Russell" Pattern Wind), Buffalo, N. Y.

Case, J. I. Threshing Machine Co. ("Case," Wind & Independent Swing, etc.), Racine, Wis.

Fosston Mfg. Co. (Wind), St. Paul, Minn.

Frick Co. (Landis Eclipse Wind), Waynes- horo, Pa.

Gaar, Scott & Co., Richmond, Ind.

Geiser Mfg. Co. (Wind), Waynesboro, Pa.

Harrison Machine Works (Automatic), Belle- ville, Ill.

Heincke & Co. (Combination & Raddle Wind Stackers), Springfield, Ill.

Huber Mfg. Co. (Wind Stackers), Marion, O.

Maplehay Windstacker Co., Crookston, Minn.

Massillon Engine & Thresher Co. (Wind & Swinging), Minneapolis, Minn.

Monarch Feeder & Stacker Co., Cedar Falls, Ia.

Newark Machine Co., Newark, O.

Nichols & Shepard Co. (Swinging & Wind), Battle Creek, Mich.

North Dakota Mfg. Co. (Wind Stackers), Grand Forks, N. Dak.

Northwest Thresher Co., Stillwater, Minn.

Pella Stacker Co., Pella, Ia.

Port Huron Engine & Thresher Co. (Pneumatic), Port Huron, Mich.

Reeves & Co. (Automatic & Pneumatic), Co- lumbus, Ind.

Robinson & Co. (Automatic, Swinging), Rich- mond, Ind.

Rumley, M. Co. (Automatic & Pneumatic), Laporte, Ind.

Russell Wind Stacker Co. (Wind), Indianapolis, Ind.

Russell & Co. (Pneumatic, Swinging & Wind), Massillon, O.

Sattley Mfg. Co., Springfield, Ill.

Stevens, A. W. Co. (Wind Stackers), Marinette, Wis.

Smith & Sons Mfg. Co., Kansas City, Mo.

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(See Chimneys, Steel)

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Dicke, C. H. Tool Co., Downers Grove, Ill.
 Meckel, Fred. L., 77 E 13th, Chicago, Ill.
 North Penn Iron Co., North Penn Junction, Phila., Pa.

Stained Glass Substitute

Diaphanum, The ("Windowphantie" Translu- cent Glass Decorations), 19 E 14th, New York

Parrish, S. H. & Co., 214 Clark, Chicago, Ill.

Quaile, Wm. B. ("Glacier Seccotine"), 2010 B'way, New York

Ross, W. A. & Bro. ("Glacier"), 11 S Wil- liam, New York

Sedgwick, Wm., 260 Clark, Chicago, Ill.

Sefton Bros., 113 E Madison, Chicago, Ill.

Young, W. C., 912 Arch, Phila., Pa.

Stainoff for Cleaning & Polish- ing

Steward, D. M. Mfg. Co., Chattanooga, Tenn.

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(See Iron Stair Builders)

Stair Builders' Supplies

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 American Sash & Door Co. (Roach & Klenzle Factory) (Wholesale Mfrs.), Kansas City, Mo.

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Bossert, Louis & Son, Grand st & Newtown creek, Brooklyn, N. Y.

Carter, S. C. & C. Co. (Wholesale Mfrs.), Keo- kuk, Iowa

Cream City Sash & Door Co. (Wholesale Mfrs.), 7th av & Park, Milwaukee, Wis.

Curtis Bros. Co. (Wholesale Mfrs.), Clinton, Iowa

Curtis & Bartlett Co. (Wholesale Mfrs.), Lin- coln, Neb.

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Gould Mfg. Co. (Wholesale Mfrs.), Oshkosh, Wis.
Gray's Harbor Commercial Co. (Wholesale Mfrs.), Cosmopolis, Wash.
Hafner Mfg. Co. (Wholesale Mfrs.), Dock & Main, St. Louis, Mo.
Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Ia., & Columbia, Tenn.
Hattig Mfg. Co. (Wholesale Mfrs.), Muscatine, Iowa.
Hyde-Murphy Co., Ridgway, Pa.
Leuckel, A. K. & Co., Trenton, N. J.
Lord, P. A. Lumber Co., La Grange, Ill.
McMillen, R. & Co. (Wholesale Mfrs.), Oshkosh, Wis.
Missouri Stair Co. (Wholesale Mfrs.), 3900 Chouteau av., St. Louis, Mo.
Morgan Co. (Wholesale Mfrs.), Oshkosh, Wis.
Oslecki, Thomas J., 600 Kent av., Brooklyn, N. Y.
Paine Lumber Co. (Wholesale Mfrs.), Oshkosh, Wis.
Palmer, Fuller & Co. (Wholesale Mfrs.), 2244 Lumber, Chicago, Ill.
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Roach & Musser Sash & Door Co. (Wholesale Mfrs.), Muscatine, Iowa.
Roberts, E. L. & Co. (Wholesale Mfrs.), W 22d & Union Place, Chicago, Ill.
Rockwell Mfg. Co. (Wholesale Mfrs.), Milwaukee, Wis.
Schaller-Hoerr Co., 500 Cal av., Chicago, Ill.
Spangler, Frank Co. (Newels, Balusters, Spindles, etc.), Toledo, O.
Starkweather, R. R. Co. (Wholesale Mfrs.), Oshkosh, Wis.
STEARNS, A. T. LUMBER CO., Neponsett, & 166 Devonshire, Boston, Mass. (See adv. index, end of book)

Stair Corners

Globe Mfg. Co. (Brass & Zinc), Painesville, Ohio.
TURNER & SEYMOUR MFG. CO., Torrington, Conn. (See adv. index, end of book)

Stair Nosing

Globe Mfg. Co. (Brass, Zinc & Rubber), Painesville, Ohio.
TURNER & SEYMOUR MFG. CO. (Brass & Zinc), Torrington, Conn. (See adv. index, end of book)

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AMERICAN MASON SAFETY TREAD CO., 702 Old South bldg., Boston, Mass. (See adv. index & branch offices, end of book)
Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
Mauhattan Brass Co., 338 E 28th, New York
Universal Safety Tread Co. (Lead Filled), 1133 B'way, New York
Waterbury Brass Goods Corporation, Waterbury, Conn.

*Stair Treads ("Empire" Carborundum)

AMERICAN MASON SAFETY TREAD CO., 702 Old South bldg., Boston, Mass. (See adv. index & branch offices, end of book)

Stair Treads (Cast Iron)

BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Cheney, S. & Son, Manlius, N. Y.
Pirkl, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
Swett, A. L. Iron Works, Medina, N. Y.

*Stair Treads (Hard Brass, Delta)

AMERICAN MASON SAFETY TREAD CO. (Lead or Carborundum), 702 Old South bldg., Boston, Mass. (See adv. index & branch offices, end of book)

*Stair Treads (Lead)

AMERICAN MASON SAFETY TREAD CO., 702 Old South bldg., Boston, Mass. (See adv. index & branch offices, end of book)
Protective Tread Co., 50 State, Boston, Mass.

Stair Treads (Reinforced Concrete)

AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)
Schachner, Edw. E., Colorado bldg., Denver, Col.
TRUSSED CONCRETE STEEL CO., Trussed Concrete bldg., Detroit, Mich. (See adv. index & branch offices, end of book)

Stair Treads (Rubber)

(See Mats & Matting, Rubber)

*Stair Treads (Safety)

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Piedmont Soapstone Co., 55 Congress, Boston, Mass. Works: Asbestine, Va.

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Keystone Steel Co. ("Kesco" Diamond Ribbed & Checkered Pattern), Warren, Pa.
Protective Tread Co. (Filled with Rubber), 50 State, Boston, Mass.
Universal Safety Tread Co. (Lead Filled), 1133 B'way, New York

Stairs (Spiral)

Barnum, E. T. Wire & Iron Works, 82 Washington av., Detroit, Mich.
BOLLES, J. E. IRON & WIRE Works, Detroit, Mich. (See adv. index, end of book)
MERRITT & CO., 94 Arch, Camden, N. J. (See adv. index, end of book)
Pirkl, John Iron Works (Inc.) (Iron), 240 N 10th, Brooklyn, N. Y.
PITT, WM. R. COMPOSITE IRON Works, 136-138 W. 24th, New York. (See adv. index, end of book)

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Link Belt Co., Nicetown, Phila., Pa.
OTIS ELEVATOR CO. (Escalators), 17 Battery pl., New York. (See adv. index & branch offices, end of book)
Reno Inclined Elevator Co., 553 W 33d, New York
Traveling Stairway Co., 1123 B'way, New York

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American Brake Shoe & Foundry Co., Mahwah, N. J.
Cambria Steel Co. (Forged Steel), Arcade bldg., Phila., Pa.
Davis Solid Truss Brake Beam Co. (Pressed Steel), Wilmington, Del.
Pressed Steel Car Co., Pittsburgh, Pa.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

*Stake Tacks & Hatches

SOLTMANN, E. G. (for Engineers & Surveyors; also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Stakes (Tinnerns)

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Stortz, John & Son (Also Slaters'), 210 Vine, Phila., Pa.

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WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

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NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Stamping (Automobile)

Bowen Mfg. Co., Auburn, N. Y.
Crosby Co., 171 Pratt, Buffalo, N. Y.
Lindholm Metal Stamping Co., Camden, N. J.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Stamping (Brass)

Bowen Mfg. Co., Auburn, N. Y.
Chicago Nut Co., 118 W Jackson boul., Chicago, Ill.
Crosby Co., 171-189 Pratt, Buffalo, N. Y.
Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
VOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge W., Detroit, Mich. (See adv. index, end of book)
Waterbury Brass Goods Corporation, Waterbury, Conn.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

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American Tube & Stamping Co. (Steel), Bridgeport, Conn.

Ashley Machine Works, Rochester, N. Y.
Atlantic Stamping Co., Rochester, N. Y.
Avery Stamping Co., Cleveland, O.
BAY STATE STAMPING CO. (And Sheet Metal to Order), 380 Chandler, Worcester, Mass. (See adv. index, end of book)

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Blank Mfg. Co. (Specialties to Order), Quincy, Ill.

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Bowen Mfg. Co., Auburn, N. Y.
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Buckeye Stamping Co., Columbus, O.
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Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Champion Safety Lock Co., Geneva, O.
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Cincinnati Stamping Co., Cincinnati, O.
Cincinnati Tin & Japan Co., Cincinnati, O.
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Clark Novelty Co., Rochester, N. Y.
Clark, W. J. Co., Salem, O.
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Edmonds-Metzel Mfg. Co., 1090 Wilcox av, Chicago, Ill.

EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O. (See adv. index, end of book)

Erle Stamping & Mfg. Co., Erle, Pa.
Fedders Mfg. Works (Light Stamping), Buffalo, N. Y.
Forsyth Mfg. Co., Buffalo, N. Y.
Gem Mfg. Co. (Brass & Steel Stamping & Drawing), Pittsburg, Pa.
Globe Machine & Stamping Co. (Heavy for Automatic, Deep Drawing, etc.), 3868 Hamilton av, Cleveland, O.
Goodwin & Kintz Co. (Brass, Aluminum, Nickel, etc.), Winsted, Conn.
Grabler Mfg. Co. (Brass, Iron & Steel), Cleveland, O.
Grammes, L. F. & Sons, Allentown, Pa.
Grant Mfg. & Machine Co., Bridgeport, Conn.
Hall, Chas. E. Co., Buffalo, N. Y.

HELVIG MFG. CO. ("Helwig"), St. Paul, Minn. (See adv. index, end of book)

Houghton Mfg. Co. (Of Every Description), Worcester, Mass.
Ireland & Matthews Mfg. Co. (In German Silver, Copper, Brass & Steel, also Spun & Drawn), Detroit, Mich.
Iron City Stamping Co. (Gas Burners, etc.), Pittsburg, Pa.

KEIM, JNO. R. MILLS (Inc.), Buffalo, N. Y. (See adv. index, end of book)

Kinsey Mfg. Co., Dayton, Ohio.
Konigslow, E. Stamping & Tool Works, 323 Champlain av, N. W., Cleveland, O.
Konigslow, Otto Mfg. Co. (Special Manufacturing), Cleveland, O.
Lindholm Metal Stamping Co., Camden, N. J.
Lyon Metallic Mfg. Co., Aurora, Ill.
McDowell Mfg. Co. (Steel & Brass), Pittsburg, Pa.

Manhattan Screw & Stamping Works, West End av & 67th New York
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Mossberg, Frank Co., Attleboro, Mass.
Mossberg Wrench Co., Central Falls, R. I.
Matthews Mfg. Co., Worcester, Mass.
NIAGARA FALLS METAL STAMPING WORKS (Aluminum, Brass, Copper, Steel, etc.), Niagara Falls, N. Y. (See adv. index, end of book)

Nortmann-Duffke Foundry Co. (Deep Stamping & Drawing), Milwaukee, Wis.
Novelty Mfg. Co., Waterbury, Conn.
Ohio Shovel & Stamping Co., Canal Dover Ohio.

Parish & Bingham Co., Cleveland, O.
Parker, John L. Co., Worcester, Mass.

PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)

Schatz Mfg. Co., Chappaqua, N. Y.
Schwab, R. J. & Sons Co., Milwaukee, Wis.
Sessions, J. H. & Son, Bristol, Conn.
Smith, M. J. (Pressing & Stamping), Bristol, Conn.

Sparks, Withington Co. (Point Bands, Shaft Tips, Special Shapes, etc.), Jackson, Mich.
Steans W. H. Stamping Co. (Cold Metal), Worcester, Mass.

Stortz, John & Son (Also Forming), 210 Vine, Phila., Pa.
Sturges & Burn Mfg. Co., 249 Green, Chicago, Ill.
Turner Brass Works, Sycamore, Ill.

VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)

Vogel, Wm. & Bros., 37 S. 9th, Brooklyn, N. Y.
W. & S. Mfg. Co., Worcester, Mass.

Wagner, E. R. Mfg. Co., North Milwaukee, Wis.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Stamping Works

(See also Enamelled Hollow Ware; also Stamping, Sheet Metal)

Acme Shear Co., Bridgeport, Conn.
Adams & Westlake Co., Chicago, Ill.
American Metal Stamping Co., 20 E. Herman, Gtn., Phila., Pa.

Avery Stamping Co., Cleveland, O.
Bowen Mfg. Co., Auburn, N. Y.
Briscoe Mfg. Co. (Galvanized Work, etc.), Detroit, Mich.

Brunswick Mfg. Co. (Light Metal), Brunswick, Me.

Central Stamping Co., 174 Fulton, New York
Chicago Die & Electric Co., 64 Fulton, Chicago, Ill.

Cincinnati Stamping Co., Cincinnati, O.
Cincinnati Tin & Japan Co., Cincinnati, O.
Columbian Enamelling & Stamping Co. (Enamelled Wares), Terre Haute, Ind., & 31 Michigan av, Chicago, Ill.

Crosby Co. (General Stamping & Drawing in Sheet Metals), 171-189 Pratt, Buffalo, N. Y.

Diamond Chain & Mfg. Co. (Steel), Indianapolis, Ind.

Dover Stamping & Mfg. Co., Cambridge, Mass.
Duniap, John Co. (Tin, Sheet Iron, Japanned, Galvanized & Enamelled Ware Mfg.), Pittsburg, Pa.

Forsyth Mfg. Co. (Sheet Metal), Buffalo, N. Y.
Geuder & Paeschke & Frey Co., St. Paul av & 15th, Milwaukee, Wis.

Hunt & Dorman Mfg. Co., Cleveland, O.
Hydraulic Pressed Steel Co. (Steel), E 61st, Cleveland, O.

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KEIM, JNO. R. MILLS (Inc.) (Sheet Metal), Buffalo, N. Y. (See adv. index, end of book)

Lalanc & Grosjean Mfg. Co., 299 B'way, New York
National Enamelling & Stamping Co., 374 B'way, New York

NIAGARA FALLS METAL STAMPING WORKS (Galvanized Work, etc.), Niagara Falls, N. Y. (See adv. index, end of book)

North, O. B. & Co., New Haven, Conn.
North & Judd Mfg. Co., New Britain, Conn.
Parish & Bingham Co. (Cold Pressed Steel), 5363 Hamilton, Cleveland, O.

Parker, Chas. Co., Meriden, Conn.
Quadrige Mfg. Co., 18 S. Canal, Chicago, Ill.

Republic Metalware Co., Buffalo, N. Y.
Republic Stamping & Enamelling Co., Canton, Ohio

Rochester Stamping Co. (Tin & Hollow Ware), Rochester, N. Y.

Sayre Stamping Co., Sayre, Pa.
Sessions, J. H. & Son, Bristol, Conn.

Standard Stamping Co., 2000 N B'way, St. Louis, Mo.

Prox Stamping Works, Troy, N. Y.
VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)

Wheeling Stamping Co., Wheeling, W. Va.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Stamping & Drawing (Sheet Metal)

Bowen Mfg. Co., Auburn, N. Y.
Bridgeport Metal Goods Mfg. Co., Bridgeport, Conn.

Crosby Co. (Difficult Drawing in Heavy Steel), 171-189 Pratt, Buffalo, N. Y.

KOVEN, L. O. & BRO., 50 Clin, New York. (See adv. index, end of book)

Lindholm Metal Stamping Co., Camden, N. J.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Stamps (Atmospheric)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

*Stamps (Gravity)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Stamps (Numbering & Dating)

(See Numbering Machines; also Dating Machines)



"Atomist" Hand Sprayer.
VOELKNER & HARRY MFG. CO.
MANUFACTURERS OF

Sheet Metal Stampings of Every Description.

DIES AND SPECIAL TOOLS.

PLUMBERS' AND BRASS GOODS SPECIALTIES.
JAPANNING. PLATING IN ALL FINISHES.

123-125-127 WOODBRIDGE ST. W.

DETROIT, MICHIGAN.

Stamps (Rubber)

Bennett, Hiram H. T., 58 Griswold, Detroit, Mich.
 Crescent Seal & Stamp Co., Cambridge, Mass.
 Hanson, C. H., 44 Clark, Chicago, Ill.
 Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
 Meyer & Weather, 90 Dearborn, Chicago, Ill.
 Ness, Geo. M., Jr., 61 Fulton, New York.
 Peerless Stamp & Stencil Co., Muncie, Ind.
 Smith, R. H. Mfg. Co., 293 Main, Springfield, Mass.
 Stewart & Holliman, 201 B'way, New York
 Teuney, J. F. Co., 152 Lake, Chicago, Ill.
 Weber-Erickson-Buntling Co., 211 Diamond, Pittsburg, Pa.

Stamps, Shoes & Dies

(See Shoes & Dies, Stamp Mill)

*Stamps (Steam)

ALLIS-CHALMERS CO., Milwaukee
 Wis. (See adv. index & branch offices, end of book)

Stamps (Steel)

Butler, A. G., 284 Pearl, New York.
CHANDLER CO., Springfield, Mass.
 (See adv. index, end of book)
 Cleveland Steel Stamp Works, Cleveland, O.
 Cunningham, M. E. Co. (For Letters & Figures for Making Tools, etc.), Pittsburg, Pa.
 Detroit Rubber Stamp Co., 99 Griswold, Detroit, Mich.
 Gowanda Agricultural Works ("Cutler's"), Gowanda, N. Y.
 Hanson, C. H. (Of All Kinds), 44 S. Clark, Chicago, Ill.
 Meyer & Wenthe, 90 Dearborn, Chicago, Ill.
 Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
 Ness, Geo. M., Jr., 61 Fulton, New York
NIAGARA FALLS METAL STAMPING
 Works (Letters & Figures), Niagara Falls, N. Y. (See adv. index, end of book)
 Peerless Stamp & Stencil Co., Muncie, Ind.
 Smith, R. H. Mfg. Co., Springfield, Mass.
 Stewart & Holliman, 201 B'way, New York
VOELKNER & HARRY MANUFACTURING
 Co., 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)

Stamps (Steel Log)

Matthews, Jas. H. & Co., 306 Wood, Pittsburg, Pa.
 Northwestern Stamp Works, St. Paul, Minn.
 Peerless Stamp & Stencil Co., Muncie, Ind.
 Sackmann, F. A., Cleveland, O.

Stamps (Time)

Automatic Time Stamp Co. (Automatic), 160 Congress, Boston, Mass.
 Baird Mfg. Co., 1596 N. Halsted, Chicago, Ill.
 Emerson & Dalton ("Emerson"), Newark, N. J.
 Follett Time Recording Co., 675 Hudson, New York
 Hanson, G. H., 44 Clark, Chicago, Ill.
 Hoggson, S. H. & Co. ("Hoggson" Pocket), 106 Fulton, New York.
 International Time Recording Co. ("Standard" Automatic), Binghamton, N. Y.
 Manhattan Time Recording Co., 308 Hudson, New York
 Perry Time Stamp Co., 11 S. Jefferson, Chicago, Ill.
 Smith, R. H. Mfg. Co. (Air Cushion), 293 Main, Springfield, Mass.
 Peerless Stamp & Stencil Co., Muncie, Ind.
 Stambaugh, Wm. B. (Automatic & Electric), Metropolitan Life bldg, New York

*Stamps & Dies (Sheet Metal)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Stamps & Dies (Steel)

Adrian Machine Wks, 254 Van Brunt, Brooklyn, N. Y.
 Hilles & Jones Co., Wilmington, Del.
 Hoggson & Pettis Mfg. Co., New Haven, Conn.
 Kingslow, E. Stamping & Tool Works, 323 Champlain av. N. W., Cleveland, O.
 Loyd, Jno. Co., 558 Water, New York
 Perkins Machine Co., Warren, Mass.
 Richard Mfg. Co. (Ltd.), Bloomsburg, Pa.

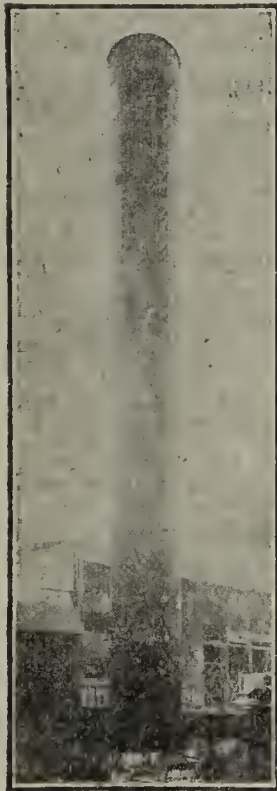
Schwerdtle Stamp Co., Bridgeport, Conn.
VOELKNER & HARRY MANUFACTURING
 Co., 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)
 Wilson & Smith, Worcester, Mass.
WORCESTER PRESSED STEEL CO.,
 Worcester, Mass. (See adv. index, end of book)

Stanchions (Cattle)

Barnard & Alexander, Forestville, Conn.
 Boyle, James & Son ("Taylor"), Salem, O.
 Crumb, W. B., Forestville, Conn.
 Hunt, Hehu, Ferris & Co. ("Star" Swing), Harvard, Ill.
 Loudon Mch. Co., Fairfield, Iowa.
 Robertson, O. H., Forestville, Conn.
 Rochester Steel Stanchion Co., Rochester, N. Y.
 Seneca Mfg. Co., 2213 Seneca, Buffalo, N. Y.

Stand Pipes

ABENDROTH & ROOT MFG. CO.,
 Newburgh, N. Y. (See adv. index & branch offices, end of book)
 Aurora Boiler Works (Inc.), Aurora, Ill.
 Birmingham Boiler Works, Birmingham, Ala.
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)



WRITE DEPT. H

THE CANTON BOILER AND ENGINEERING COMPANY

Canton, Ohio, U. S. A.

Casey-Hedges Co., Chattanooga, Tenn.
 Chicago Bridge & Iron Co., W 105th & Throop, Chicago, Ill.
 Coatesville Boiler Works, Coatesville, Pa.
 Cole, R. D. Mfg. Co., Newnan, Ga.
CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)
 Cunningham Iron Co., Boston, Mass.
FAIRBANKS' MORSE & CO. (Railroad "Sheffield"), Wabash & Eldredge pl. Chicago, Ill. (See adv. index & branch offices, end of book)
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Gem City Boiler Co., Dayton, O.
HANKE IRON & WIRE WKS. (With
 Ice-Proof Steps & Balconies), 1234 Fillmore, Chicago, Ill. (See adv. index, end of book)
 Hartley's Boiler Works, Montgomery, Ala.
 Hodge Boiler Works, Sumner nr N. Ferry, East Boston, Mass.
 Hood, R. H. Co., 299 B'Way, New York

STAND PIPES

TANKS STACKS

GENERAL PLATE CONSTRUCTION

ERECTED
ANYWHERE

KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)
KEELER, E. CO., Williamsport, Pa.
 (See adv. index & branch offices, end of book)
 Kenuicott Water Softening Co., Railway Exchange Bldg., Chicago, Ill.
 Lake Erie Boiler Works, Buffalo, N. Y.
LONDON, E. R. IRON & WIRE
 Works (With Ice-Proof Steps & Balconies), 118 N. May, Chicago, Ill. (See adv. index, end of book)

Love Bros., Inc., Aurora, Ill.
 Lookout Boiler & Mfg. Co., Chattanooga, Tenn.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 Lyon Boiler & Iron Works, De Pere, Wis.
 McNeil Boiler Co., Akron, O.
 McNeil, James & Bro. Co., Pittsburg, Pa.
MACKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index, end of book)

Meeban Boiler & Construction Co., Lowellville, O.

MEYERS, FRED. J. MFG. CO., Ham-
 ilton, O. (See adv. index, end of book)

MICHELMANN STEEL CONSTRUCTION
 Co., Quincy, Ill. (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHIN-
 ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Munroe, R. & Sons Corporation, 23d & Small-mau, Pittsburg, Pa.

Muskegon Boiler Works, Muskegon, Mich.
 Odum-Taylor Boiler Co., Memphis, Tenn.

PETROLEUM IRON WORKS CO.,
 Sharon, Pa. (See adv. index & branch offices, end of book)

Petty, J. K. & Co. (Lebanon Boiler Works), Lebanon, Pa.

Philadelphia Iron Works, 418 N 18th, Philadelphia, Pa.

Pollock, Wm. B. Co., Youngstown, O.
 Portland Co., Portland, Me.

Riter-Conley Mfg. Co., 56 Water, Pittsburg, Pa.
 Rodgers Boiler & Burner Co., Muskegon, Mich.

SCHREIBER, L. & SONS CO., 8th &
 Eggleston av, Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)

Sharon Boiler Works, Sharon, Pa. (See adv. index, end of book)

SIMMONS, JOHN CO., 106 Centre, New
 York. (See adv. index, end of book)

Sotter Bros., Pottstown, Pa.
 Star Boiler Works, Clinton, Ia.

Stebbins, W. L., Monadnock blk., Chicago, Ill.
 Struthers-Wells Co., Warren, Pa.

Tippett & Wood, Phillipsburg, N. J.

TRUSSED CONCRETE STEEL CO.,
 Trussed Concrete bldg, Detroit, Mich. (See adv. index & branch offices, end of book)

T. S. Wind, Engine & Pump Co., Batavia, Ill.

Walsh Boiler & Iron Works, Springfield, Mass.
 Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.

Walsh & Weidner Boiler Co., Chattanooga, Tenn.

Warren City Tank & Boiler Co., Warren, O.

Wickes Bros., Saginaw, Mich.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

York Mfg. Co., York, Pa.

Stand Pipes or Locomotive Water Cranes

(See Water Columns or Stations, Railroad)

Stand Pipes (Reinforced Concrete)

Concrete Construction Co., Bailey bldg, Phila., Pa.

Stands (Armature Winding)

American General Engineering Co., 253 B'way, New York
 Columbia Machine Works & Malleable Iron Co. ("Columbia"), 269 Chestnut, Brooklyn, N.Y.
 Device Improvement Co. ("Peerless"), Han-Ridlon, Frank Co., Boston, Mass. over, Pa.
 Smith & Wallace, Woburn, Mass.

Stands (Die Sinking)

Victor Tool Co. ("Victor Universal"), Waynes-boro, Pa.

Stands (Indicator)

Chain Belt Co. (Malleable Iron), Milwaukee, Wis.

Stands (Magnet Wire Reel)

Device Improvement Co. ("Peerless"), Hanover, Pa.

Stands (Mule Pulley)

Bond Foundry & Machine Co., Manheim, Pa.
Caldwell, H. W. & Son Co. (Adjustable),
Western av & 17th, Chicago, Ill.

CANTON FOUNDRY & MACHINE CO.,

Canton, O. (See adv. index, end of book)
Case Mfg. Co., Columbus, O.
Falls Rivet & Machine Co., Cuyahoga Falls, O.
Grammes, L. F. & Sons, Allentown, Pa.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Poole Engineering & Machine Co., Baltimore, Md.

Stands (Umbrella)

Central Stamping Co. (Cylinder), 174 Fulton,
New York
Cincinnati Iron Fence Co., Cincinnati, O.
WISCONSIN IRON & WIRE WORKS
(Metal), 190 E Water, Milwaukee, Wis.
(See adv. index, end of book)

Stannate Soda

Cochrane Chemical Co., Boston, Mass.

Staple Mfrs.

Acme Staple Co., 500 N 12th, Phila., Pa.
AMERICAN STEEL & WIRE CO.,
Commercial Natl. Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)
Atlas Tack Co., Fairhaven, Mass.
Brewer Bros. (Bar, Bolt, Bow, Latch, Mirror
or Plate & Round), 614 Filbert, Phila., Pa.
Central City Bolt Co. (Nuttet), Syracuse, N. Y.
Cobb & Drew (Bed Spring, Broom, Pail, Barbed,
Blind, Basket Handle, Clamp, Steel, Spring
& Clinch, Hoop, Tube, Electricians', Poul-
try Netting, etc.), Plymouth, Mass., &
Rock Falls, Ill.
Colorado Fuel & Iron Co. (Wire), Denver, Col.
Eberhard Mfg. Co., Cleveland, O.
Grand Crossing Tack Co. (Wire), S Chicago av
& 79th, Chicago, Ill.
Griswold Co. (Wire), Sterling, Ill.
Hazel Atlas Glass Co., Wheeling, W. Va.
Holland Mfg. Co., Baltimore, Md.
Humason & Beckley Mfg. Co., New Britain,
Conn.
Igoe Bros. (Fence & Poultry Netting), 69
Metropolitan av, Brooklyn, N. Y., & New-
ark, N. J.
Indiana Steel & Wire Co. (Wire Fence), Mun-
cie, Ind.
Kelly Nail & Iron Co. (Wire), Ironton, O.
Kokomo Steel & Wire Co. (Fence, etc.), Kokomo,
Ind.
Lawrence Bros. (Hoop), Sterling, Ill.
Milwaukee Tack Co. (Wire), Milwaukee, Wis.
Morgan Spring Co., Worcester, Mass.
Norton Iron Works (Inc.), (Polished & Galvan-
ized Wire), Ashland, Ky.
Oliver Iron & Steel Co. (Hame), Pittsburg, Pa.
Parker Wire Goods Co. (Wire), Worcester,
Mass.
Pickering, Ridgeway S. (Hoop Staples), Sharon
Hill, Pa.
Pittsburg Steel Co. (Wire Fence, etc.), Pitts-
burgh, Pa.
Plymouth Mills, Plymouth, Mass.
Pratt, Wm. E. Mfg. Co. (Barbed, Blind, Net-
ting, Bed Spring), 91 Lake, Chicago, Ill.
Reading Hardware Co. (Wrought), Reading,
Pa.
Reading Screw Co. (Wire, All Kinds), Norrie-
town, Pa.
Rockwell Clough Co. (Wire), Alton, N. H.
Sargent & Co., New Haven, Conn., & 94
Centre, New York
Southern Steel Co. (Wire Fence, etc.), Bir-
mingham, Ala.
St. Louis Wire & Iron Co., St. Louis, Mo.
Stanley, George W. Co. (Barbed, Blind & Hoops),
Belleville, Ill.
STANLEY WORKS, New Britain,
Conn. (See adv. index & branch offices,
end of book)
Superior Tack & Nail Co. (Coppered Basket
Handle Hoop, Galvanized Poultry Net-
ting, etc.), Pen Yan, N. Y.
Titchener, E. H. & Co. (Blind, etc.), Bingham-
ton, N. Y.
Tower Mfg. Co. (Wire Clamp Electricians',
Broom, Hoop, Harness, etc.), Commerce &
Elm, Cincinnati, O., & Madison, Ind.
Townsend, G. G. (Barrel & Keg Hoop), Winch-
endon, Mass.
Wickwire Bros. (Wire), Cortland, N. Y.
Wilcox Mfg. Co. (Whole or Half Bar), Aurora,
Ill.

Williamsport Staple Co., Williamsport, Pa.
Wilcox, Crittenden & Co. (Wrought Iron), Mid-
dletown, Conn.

Wire Goods Co. (Wrought Steel, Steel Wire,
Tinned & Galvanized), Worcester, Mass.

Wire Specialty Co., 43 Fulton, Chicago, Ill.

WRIGHT WIRE CO. (Wire of all
Kinds), Worcester, Mass. (See adv. index
& branch offices, end of book)
Youngstown Sheet & Tube Co. (Wire, Bright
Fence, etc.), Youngstown, O.

Staples (Insulated)

Blake Signal & Mfg. Co. ("Blake"), Boston,
Mass.
Commercial Electrical Supply Co., St. Louis,
Mo.
Insulating Saddle Staple Co., Boston, Mass.

Staples (Paper)

Irvin, Alex. H. Co., Curwensville, Pa.

Stars (Iron)

Barnett, Oscar Foundry Co. (For Rumbling),
Newark, N. J.
OHIO MALLEABLE IRON CO. (Hard
Iron Stars for Tumbling Mills), Columbus, O.
(See adv. index, end of book)
OSBORN MFG. CO. (Hard Iron for
Rumbling), 5401 Hamilton av, N E, Cleve-
land, O. (See adv. index, end of book)

Starters (Automobile, Engine)

American Electric Novelty & Mfg. Co. ("Ever
Ready"), 304 Hudson, New York

Stationers' Specialties

(See also Specific Article Required)

Adams Mfg. Co. (Blotter Baths), 4 S 20th,
Phila., Pa.
Burr Index Co. (Index Cards), Hartford, Conn.
Chicago Business System Co. (Index Cards,
Interchangeable), Chicago, Ill.
Clark & Baker Co. (Index Cards, Metalle),
258 Canal, New York
Cushman & Denison Mfg. Co. ("Capitol" Ink
Stands & Other Specialties), 240 W 23d,
New York
Detroit Coin Wrapper Co., Detroit, Mich.
Farnham, A. B. Printing & Stationery Co.
(Desk Ticklers & Other Specialties), Min-
neapolis, Minn.
Hoskins ("Victor" Inkstands), 354 B'way, New
York
King, W. V. Supply Co. (Stenographic Tabu-
lators), St. Louis, Mo.
Modern Mfg. Co. (Book Corner Protectors),
P. O. Box 2854, Phila., Pa.
National Blank Book Co., Holyoke, Mass.
National Finger Pad Co. (Molsteners), Man-
chester, N. H.
Sengbusch Self-Closing Inkstand Co., Milwau-
kee, Wis.
Western Clock Co. ("Rajah" Paper Weight
Clock), Peru, Ill.

**Statuary & Monuments (White
Bronze)**

Monumental Bronze Co., Bridgeport, Conn.

Staybolt Iron

(See Iron, Staybolt)

Staybolts

Davenport, J. H. ("Davenport" Flexible), Lin-
coln, Neb.
Flannery Bolt Co. ("Tate" Flexible), Frick
bldg, Pittsburg, Pa.
Hall's, Sam'l Sons, 229 W 10th, New York
Hoopes & Townsend Co. (Hollow & Solid Steel),
1330 Buttonwood, Phila., Pa.
Independent Rolling Mill Co. (Solid & Hollow),
Cuyahoga Falls, O.
Thompson, Chas. A. ("Acme" Flexible), 516 N
3d, St. Louis, Mo.

Stays (Fence)

B. B. Fence Co. ("B. B."), Peru, Ind.
Crescent Metallic Fence Stay Co., Covington, O.
Cyclone Woven Wire Fence Co., Cleveland, O.
Globe Fence Co., Delevan, N. Y.
Hollinger Fence Co. (Wire Steel), Greenville, O.
Simmons & Sons, Spokane, Wash.

Stays (Stair Rail)

Brewer Bros. (Wrought, Screw, Drive or on
Plate), 614 Filbert, Phila., Pa.

Stays (Transom)

Yale & Towne Mfg. Co., 9 Murray, New York

Steam Boilers

(See Boilers, Various Kinds)

Steam Engines

(See Engines, Various Kinds)

Steam Feeds

ALLIS-CHALMERS CO. (Twin Engine &
Direct Acting), Milwaukee, Wis. (See
adv. index & branch offices, end of book)
Hill, W. E. & Co., Kalamazoo, Mich.
Manistee Iron Works Co. (Twin Engine, for
Saw Mill Carriage), Manistee, Mich.

Steam Fitters

(See Heating Contractors, Steam & Hot Water)

Steam Fitters (High Pressure)

(See Piping, High Pressure)

**Steam Fitters' Supplies (Job-
bers)**

(The Firms in Plumbers' Supplies, Jobbers, is
a Duplication of this Trade)
(For Manufacturers of Steam Specialties see
Specific Article Required)

ALABAMA.

ANNISTON—Anniston Supply Co.
BIRMINGHAM—Crane Co. (of Chicago), Est.
1855. (See adv. index, end of book)
Moore & Handley Hdw. Co.
MOBILE—Cunningham Hardware Co.
Southern Hardware & Supply Co.
MONTGOMERY—Lum Machinery Co.

ARIZONA TERRITORY.

PHOENIX—Thayer, Ezra W.

ARKANSAS.

CAMDEN—Camden Hardware & Mill Supply Co.
FORT SMITH—Atkinson-Williams Hardware
Ayers & Co.
Speer Hardware Co.
LITTLE ROCK—Crane Co. (Of Chicago, Ill.),
Est. 1855. (See adv. index, end of book)
Webrfritz, E. C. Machinery & Supply Co.

CALIFORNIA.

FRESNO—Kutner-Goldstein Co.
LOS ANGELES—Busch, A. H. Co., 150 N Los
Angeles
Crane Co. (of Chicago), Est. 1855. See adv.
index, end of book)
FAIRBANKS, MORSE & CO. (of
Chicago), 136 Los Angeles. (See adv. in-
dex, end of book)
Harper & Reynolds Co., 152 N Main
Herron, R. H. Co., 214 N Los Angeles
Holbrook, Merrill & Stetson (of San Fran-
cisco), 214 N Los Angeles
Montague, W. W. & Co. (Inc.), (of San
Francisco), 122 N Los Angeles
Pacific Coast Mfg. Co., 126 S Los Angeles
Pacific Hardware & Steel Co.
Union Hardware & Metal Co., 411 E 1st
Warren & Bailey Mfg. Co., 359 N Main
OAKLAND—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)
PASADENA—Pasadena Hardware Co.
SAN FRANCISCO—Baker & Hamilton (Inc.),
3d & Berry
Crane Co. (of Chicago), Est. 1855. (See
adv. index, end of book)
Dalziel-Moller Co., 543 Mission
Dunham, Carrigan & Hayden Co., 131
Kansas
FAIRBANKS, MORSE & CO. (of
Chicago), 158 1st. (See adv. index,
end of book)
Holbrook, Merrill & Stetson, 6th & Town-
send

Garrett, W. T. & Co., Fremont & Natoma
Marwedel, C. W., 258 9th
Montague, W. W. & Co., Turk & Polk
Moore, Chas. C. & Co., 99 1st
O'Brien, Michael, 142 1st
Pacific Hardware & Steel Co., s w c 7th &
Townsend
Tay, Geo. H. Co., 617 Mission
Wagner, Jos. Mfg. Co., 165 Beale
Woodin & Little, 70 Fremont
SAN JOSE—Stock, Jno. Sons
STOCKTON—Austin Bros.

COLORADO.

CRIPPLE CREEK—Cripple Creek Mine & Sup-
ply Co.
DENVER—FAIRBANKS, MORSE & CO.
(of Chicago), 1600 17th. (See adv. index,
end of book)
Hendrie & Bolthoff Mfg. & Supply Co.
Mine & Smelter Supply Co., 17th & Blake
O'Fallan, M. J. Supply Co., 1518 Wynkoop

CONNECTICUT.

BRIDGEPORT—Mills, L. H., 32 Middle
DANBURY—Danbury Hardware Co.
Hoyt, H. W. Co.
DERBY—Hallock, F. C. Co.
HARTFORD—Bidwell, J. C. & Co.
Hartford Mill Supply Co., 168 Pearl
Pillmpton & Hills Corporation
MERIDEN—Cashen, Wm. B.
MIDDLETOWN—Donovan, Jas.
Hale & Kelsey
Mills, Lyman D.
NAUGATUCK—Page, Jno. M. & Co.
NEW HAVEN—Foskett & Bishop Co., River c
Blatchley av
Mersick, C. S. & Co., 292 State
Peck Bros. & Co., 125 Chestnut
Sheahan & Groark, 285 State
NEW LONDON—Darrow & Comstock Co.
NORWALK—Jones & Hotchkiss Co.
NORWICH—Barstow, J. P. & Co.
Brown, Robt.
PUTNAM—Putnam Foundry & Machine Corp.
TORRINGTON—Agard Hardware Co.
Perkins, E. A. Electric Co.
WATERBURY—Barlow Bros. Co.

DELAWARE.

WILMINGTON—Delaware Electric & Supply
Industrial Supply Co.
SHAW, BENJ. F. CO. (See adv.
index, end of book)
Speakman Supply & Pipe Co.

DISTRICT OF COLUMBIA.

WASHINGTON—McCubbln, C. J. Co., 423 10th
N. W.
Mitchell, John Jr., 1000 Penn av, N. W.
Schafer, E. G. & Co., 424 11th, N. W.
Somerville, Thos. & Sons, 322 13th, N. W.

FLORIDA.

JACKSONVILLE—Christopher, Jno. G. Co.
Florida Hardware Co. (Inc.)
Huhhard, S. B. Co. (Inc.)
KEY WEST—Curry's, Wm. Sons
OCALA—Masters, H. B. Co.
ORLANDO—South Florida Foundry & Machine
PENSACOLA—Wicke & Co. Works

GEORGIA.

AMERICUS—Sheffield-Huntington Co.
ATLANTA—Beck & Gregg Hardware Co.
Cotton States Belting & Supply Co.
Crane Co. (Of Chicago, Ill.) Est. 1855.
(See adv. index, end of book)
General Supply Co.
AUGUSTA—Lombard Iron Works & Supply Co.
MACON—Schofield's, J. S. Sons Co.
ROME—Battley Machinery Co.
SAVANNAH—Rourke, Jno. & Sons.
Weed, J. D. & Co.
WAYCROSS—Harley, P. N. Hardware Co.

IDAHO.

BOISE—Carlson-Lusk Hardware Co.

ILLINOIS.

BATAVIA—U. S. Wind Engine & Pump Co.
BLOOMINGTON—Keiser-Van Leer Co.
CAIRO—Woodward Hardware Co.
CHICAGO—Advance Packing & Supply Co., 123
Franklin

Baker & Smith Co., 83 5th av
Cameron, Schroth, Cameron Co., 189 Mich
CARPENTER, GEO. B. & CO., 202
S Water. (See adv. index, end of book)
Cawthorne & Mahler Co., 75 Fulton
Channon, H. Co., 24 Market
Chicago Engineer Supply Co., 112 Lake
Chicago Heater & Supply Co. (Heaters,
Radiators & Supplies), 56 Dearborn
Clow, Jas. B. & Sons, Franklin & Harrison
Crane Co. (Est. 1855), 519 S Canal. (See
adv. index, end of book)
Crawford Co., 409 S Canal
Crerar, Adams & Co., 11 5th av
Davies Supply Co., 22 N Clark
Deschauer, Stephen, 334 Blue Island av
FAIRBANKS, MORSE & CO.,
Franklin & Monroe. (See adv. index,
end of book)
Federal-Huber Co., Halsted & Fulton
GORTON & LIDGERWOOD CO.
(Boilers, Radiators, Valves, etc.), Fish-
er bldg. (See adv. index, end of book)
Gould Co., Ohio & Franklin
Hardin, Jno., 4543 Cottage Grove av
Henlon & Hubbell, 65 N Jefferson
Hennebelle, F., 9408 S Chicago & Erie avs
Holland Radiator Co., 38 Dearborn
Illinois Malleable Iron Co., 539 Diversey
International Heater Co. (of Utica, N. Y.),
48 Dearborn
Kellogg-Mackay Co., 19 W 18th
Kelly & Jones Co. (of Pittsburg, Pa.), 59
Clark

Klemp, Wm. F. & Co., 138 Washington
Kroeschell Bros. Co., 55 Erie
Limbhart, Geo. B. & Co., 49 Fulton
Lyon, Sam & Son, 20 Jefferson
McCrea, Jas. & Co., 67 W Wash'n
McMaster-Carr Supply Co., 174 Lake
Manning, Maxwell & Moore, 22 S Canal
Mott, J. L. Iron Works, Merchants Loan &
Trust bldg

Reed Mfg. Co., 16 S Canal
Scott Valve Co., 231 Randolph
Seehauseu, Wehrs & Co. (Also Engineers'
Supplies), 45 Franklin
Sorge, A. J., & Co., 98 Jackson boul
Steamfitters Supply Co., 205 E Kinsle
Street, R. R. & Co., 184 Wash'n
United States Heater Co. (of Detroit), 42
Dearborn

Walsh, W. J. & Co., 114 Illinois
Weir & Craig Mfg. Co., 2439 Wallace
Western Kieley Steam Specialty Co., 112
Western Valve Co., 179 W Lake
Williamson, R. & Co., 88 W Washington

DECATUR—Oakes, Wm. L.
Oakes, Wm. L.
ELGIN—Barclay, D. F.
GALVA—Mulford Heater Co.
JOLIET—Barrett Hardware Co.
MOLINE—Moline Heating & Construction Co.
PEORIA—Kinsey & Mahler Co.
PERU—Brunner, Chas.
QUINCY—Best, E., Plumbing & Steam Heating
ROCKFORD—America Heating Co. Co.
Ward Pump Co.
SANDWICH—Enterprise Windmill Co.
SOMONAUK—California Windmill Co.

INDIANA.

AUBURN—Zimmerman Mfg. Co.
BLUFFTON—Red Cross Mfg. Co.
BRAZIL—Crawford & McCrimmon Co.
BUTLER—Butler Co.
EVANSVILLE—Evansville Leather Belting
Grote Mfg. Co.
INDIANAPOLIS—FAIRBANKS, MORSE
& Co. (of Chicago) (See adv. index, end
of hook)
Hilde, Leather & Belting Co., 227 S. Mer-
idian
Indianapolis Belting & Supply Co. (J. W.
Faust, Prop.), 18 S Capitol av
GARY—Calumet Supply Co.
Knight & Jillson Co.
LOGANSPOUT—Hildebrandt, John J. Co.
MICHIGAN CITY—Stalger Hardware Co.
MUNCIE—Keiser, Geo. & Co.
Muncie Gas Engine & Supply Co.
NOBLESVILLE—Clark Supply House
RICHMOND—Jones Hardware Co. (Jobbers)
SOUTH BEND—South Bend Supply Co.
TERRE HAUTE—Crane Co. (of Chicago).
Est. 1855. (See adv. index, end of hook)
Freitag, Weinhart & Co.
Watson's, D. W. Sons Co.
UNION CITY—Knapp Supply Co.

IOWA.

CEDAR RAPIDS—Chandler Pump Co.
Fawcett, C. E.
Iowa Windmill & Pump Co.
Kubias, F. & Co.
DAVENPORT—Midland Supply Co.
DES MOINES—Beckman Bros.
Crane Co. (Of Chicago, Ill.) Est. 1855.
(See adv. index, end of book)
Globe Machinery & Supply Co.
Kurtz, L. H. Co.
DUBUQUE—Deckert, W. D. Co.
McDonald, A. Y. & Morrison Mfg. Co.
Smedley Steam Pump Co.
FORT DODGE—Leighton Supply Co.
KEOKUK—Sutton, Wm. P.
MUSCATINE—Barry Mfg. Co.
OSKALOOSA—Ideal Heating Co.
Iowa Mfg. Co.
SIOUX CITY—Crane Co. (of Chicago). East
1855. (See adv. index, end of book)

KANSAS.

ATCHISON—Searles Bros. Windmill & Pump
LEAVENWORTH—Great Western Mfg. Co.
TOPEKA—Bromich, Jos.
Crane Co. (Of Chicago, Ill.) Est. 1855.
(See adv. index, end of book)

KENTUCKY.

ASHLAND—Ashland Foundry & Machine Works
Henderson Hdw. Co.
LOUISVILLE—Ahrens & Ott Mfg. Co., 325 W
Cowan, Andrew & Co., 435 W Main
FAIRBANKS, MORSE & CO. (of
Chicago), 519 Main. (See adv. index, end
of book)
Lah Co., 439 W Main
McWilliams, Jos. & Co., 719 W Market
Pyne, W. T. Mill & Supply Co., 1301 W
Vogel, P. A. & Sons, 135 E Main
Waters-Garland Co., 433 W Main

LOUISIANA.

NEW ORLEANS—Ahrens & Ott Mfg. Co. (of
Louisville, Ky.), Baronne c St. Joseph
Burt, C. S. Co. (Ltd.), 826 Union
Gibbens & Stream, 213 Canal
Hauhtman & Loeb Co. (Ltd.), 222 S Peters
Louisiana Boiler & Sheet Iron Works (Ltd.),
2344 Euphrosine
Manion & Co., 622 Baronne
Murphy, John H., 643 Magazine
Payne & Joubert, 423 Carondelet
Schwartz Foundry Co. (Ltd.), 451 Howard av.
Stauffer-Eshleman & Co., 511 Canal
SHREVEPORT—Henderson, W. K.
Vordenbaumen-Eastman Co. (Ltd.)

MAINE.

BANGOR—Bahh, C. H. & Co.
Leighton Plumbing & Heating Co.
Union Iron Works
BIDDEFORD—Anthonie, Geo. A.
DEXTER—Fay & Scott (Inc.)
FAIRFIELD—Donnelly, D. B.
LEWISTON—Hall & Knight Hardware Co.
Pratt, T. Lloyd
Stetson, Jos. H. Co.
PORTLAND—Blake, W. L. & Co. (Inc.), 79
Commercial
Plummer, C. M. & H. T., 48 Union
Portland Stove Foundry Co., 39 Kennebec
Smith & Abbott Co.
ROCKLAND—Lamson Hardware Co.

MARYLAND.

BALTIMORE—Aumen Machinery & Supply Co.
324 N Holliday
Basshor, Thos. C. Co., 28 Light
Carey Machinery & Supply Co. (Inc.), 121
E Lombard
Central Metal & Supply Co., 611 E Lombard
Crane Co. (of Chicago). Est. 1855. (See
adv. index, end of book)
Crook-Horner Co., 19 E Pratt
Cuyler & Mohler, 611 William
Enterprise Steam & Hot Water Heating
Co., 107 E Lombard
Robertson, Jas. Mfg. Co., 14 S Hanover
Spedden Supply Co., 913 S B'way
Standard Supply & Equipment Co., 306
Holliday
Stebbins, Wallace & Sons, Charles and Lom-
Wallace & Gale, 115 S Gay
Wood, W. E. Co., 18 N Howard
CUMBERLAND—McKaig, Merwin

MASSACHUSETTS.

ADAMS—Weston, Leroy A.
 BOSTON—Anderson, G. P. (Kleley & Mueller's Specialties), 163 Oliver
 Boston Engineers' Supply Co., 56 Purchase
 Boston Steam Specialty Co., 168 Congress
 Braman, Dow & Co., 239 Causeway
 Brown-Wales Co., 69 Purchase
 Chesterton, Arthur W. & Co., 64 India
 Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 Cunningham Iron Co., Summer, B & Fargo
 Cunningham, J. H. Co., 269 Congress
 Dalton-Ingersoll Mfg. Co., 169 High
 Gallison, Wm. H. Co., 36 Oliver
 Gilchrist, Geo. E. Co., 106 High
 Gurney Heater Mfg. Co. (Heating Apparatus, etc., Supplies), 188 Franklin
 Hercules Iron & Supply Co., 427 Commercial
 Hubbard, W. B. & Sons Co., 176 Oliver
 Jarvis Engineering Co., 61 Oliver
 Morse, Tenny & Co., 143 Pearl
 Morton, Andrew M. & Co., 25 Wash'n
 Mott, J. L. Iron Works, 41 Pearl
 New England Iron Works Co. (Jobbers), Summer, B & Fargo
 Perriu, Scamans & Co., 57 Oliver
 Perry, J. P. & Co., 195 Devonshire
 Pierce, Butler & Pierce Mfg. Co. (of Syracuse, N. Y.), 50 Oliver
 Roberts, Jas. H. & Co., 137 Portland
 Smith & Anthony Co., 48 Union
 Smith & Thayer Co. (Heating Apparatus & Supplies), 236 Congress
 Walker & Pratt Mfg. Co., 33 Union
 Walworth Construction & Supply Co., 100
 Walworth Mfg. Co., 132 Federal Pearl
 Webb, F. W. Mfg. Co., 52 Elm
 CHELSEA—International Heater Co. (of Utica, N. Y.)
 FALL RIVER—Fall River Steam & Gas Pipe
 Miller, Nathan Corporation
 GARDINER—Royal Steam Heater Co.
 HAVERHILL—Mills & McClintock
 HOLYOKE—Holyoke Valve & Hydrant Co.
 Russell, J. & Co.
 LOWELL—Barker, H. R. Mfg. Co.
 Farrell & Conaton
 Middlesex Machine Co.
 LYNN—Bourneuf, Louis Corporation
 Trefethern, Frank L.
 MIDDLEBORO—Pierce, Thos. W.
 MILFORD—Ellis, Clark & Sons
 NEW BEDFORD—New Bedford Boiler & Machine Co.

NORTH ATTLEBORO—Hall, Wm. M.
 ORANGE—Chase Turbine Mfg. Co.
 PITTSFIELD—Robbins, Gamwell & Co.
 SPRINGFIELD—Gilbert & Barker Mfg. Co.
 Hitchcock Supply Co. (Inc.)
 New England Plumbing Supply Co.
 Oliver & Howland Co.
 WYCKOFF & LLOYD CO., 19
 Worthington. (See adv. index, end of book)
 TAUNTON—Dighton Foundry Co. (book)
 WESTFIELD—Smith, H. B. Co.
 WORCESTER—Braman, Dow & Co. (of Boston, Mass.)
 Burlingame, A. Co.
 Callahan, J. W. & Son
 Central Supply Co.
 Washburn & Garfield Mfg. Co.

MICHIGAN.

BAY CITY—Bialy Hardware & Supply Co.
 Jennison Hardware Co.
 Styninger, Jno. A.
 CALUMET—Carlton Hardware Co.
 DETROIT—Anderson, Kenneth Mfg. Co., 35
 E. Atwater
 Conkling, Sam'l P., 20 E Atwater
 Detroit Heating & Lighting Co., 49 Division
 Detroit Lead Pipe & Sheet Lead Works
 Detroit Ship Building Co. (Brass Dept.), ft
 of Orleans
 FAIRBANKS, MORSE & CO. (of Chicago), 89 Jefferson. (See adv. index, end of book)
 Harvey's, A. Son's Mfg. Co. (Ltd.), 22 1st
 Lane Bros., 232 Michigan av
 McRae & Roberts Co., 227 Campbell av
 Muzzy-Lyon Co., 149 W. Larned
 Park & McKay Co., 55 Bagley av
 Roe, J. A. Co., 12 E Atwater
 Sales, Murray W. Co., 76 Jefferson av
 Strelinger, Chas. A. Co., 98 Bates
 VOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge W. (See adv. index, end of book)
 Walker Mfg. & Supply Co., 136 W Larned

GRAND RAPIDS—Ferguson Supply Co. (Ltd.)
 Grand Rapids Supply Co.
 Leitelt, Adolph Iron Works
 Sproul & McGurrian
 Barclay, Ayers & Bertsch Co.
 IONIA—Webber Hardware Co.
 JACKSON—Holton & Weatherwax Co. (Ltd.)
 KALAMAZOO—Dutton, C. H. Co.
 Smith & Pomeroy Windmill Co.
 LANSING—Michigan Supply Co.
 MENOMINEE—Emerson-Corbin Supply Co.
 MUSKEGON—Howden, J. J. Co.
 Towner Hardware Co.
 SAGINAW—Eureka Heating & Ventilating Co.
 (C. W. Light, Prop.)
 Morley Bros. (Inc.)
 Saginaw Hardware Co.
 Wickes Bros.
 SAULT SAINT MARIE—Soo Hardware Co.
 WESTON—Vail & Smith Co.

MINNESOTA.

DULUTH—Crane Co. (of Chicago), Est. 1855.
 (See adv. index, end of book)
 Marshall-Wells Hardware Co.
 MANKATO—Mankato Mfg. Co.
 MINNEAPOLIS—Bruchholz, August F., 217
 Central Supply Co., 312 S 3d 3d S
 Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 Dean & Co., 404 N Wash'n av
 Engineering & Steam Supplies Co., 227 S 3d
 FAIRBANKS, MORSE & CO. (of Chicago), 220 Nicollet av. (See adv. index, end of book)
 Gillmore, D. M. Co., 515 S 3d
 Kellogg-Mackay Co., 100 2d, S
 Minneapolis Tubular Well Co., 311 N 3d av
 Plumbing & Steamfitting Supplies Co., 212 N 1st
 ST. PAUL—Crane Co. (of Chicago), Est. 1855.
 (See adv. index, end of book)
 Crane & Ordway Co., 5th & Rosabel
 FAIRBANKS, MORSE & CO. (of Chicago), 234 E 3d. (See adv. index, end of book)
 Robinson & Cary Co., 4th cor Wacouta
 Western Supply Co., 5th & Sibley
 STILLWATER—Bronson, J. N.
 WINONA—Green, Thos. J.
 Toye, Michael

MISSISSIPPI.

CORINTH—Adams, W. T. Machine Co.
 MERIDIAN—Hyde, Chas. J.
 NATCHEZ—Feltus Bros.
 YAZOO CITY—Crane-Hinman Hardware Co.

MISSOURI.

JOPLIN—Halyard Hardware Co.
 Joplin Hardware Co.
 McNeal Machinery Co.
 KANSAS CITY—Burton, C. A. Machinery Co.,
 701 Delaware
 Crane & Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 English Iron Works Co., 408 W 5th
 FAIRBANKS, MORSE & CO. (of Chicago), 1217 Union av. (See adv. index, end of book)
 Great Western Mfg. Co. (of Leavenworth, Kans.), 1221 Union av
 Reeves Supply Co., 1304 McGee
 U. S. Water & Steam Supply Co., 1315 W 12th
 Young, W. B. Supply Co., 212 Delaware
 ST. JOSEPH—Horgan Supply Co.
 ST. LOUIS—AMERICAN RADIATOR CO.
 (of Chicago), 207 N 10th. (See adv. index, end of book)
 Cahill-Swift Mfg. Co., 20 S 12th
 Colcord, W. R. Machinery Co., 821 N 2d
 Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)
 FAIRBANKS, MORSE & CO. (of Chicago), 8th & Clark av. (See adv. index, end of book)
 Handlan-Buck Mfg. Co., 210 N 3d
 Johnson, Wm. C. & Sons Machinery Co.,
 210 Wash av
 Kupferle Bros. Mfg. Co., 600 N 2d
 Materne Mfg. Co., 18th & Gratiot
 Brockman, J. R. Mfg. Co., 214 Lucas av
 National Plumbing Supply Co., 110 S 12th
 Nelson, N. O. Mfg. Co., 10th & Chestnut
 Rumsey, L. M. Mfg. Co., 810 N 2nd
 Spring, Harry C. Supply Co., 715 N 2d
 Streett, J. D. & Co., 809 N 2d
 WEBB CITY—Franz Hardware Co.

MONTANA.

ANACONDA—Anaconda Copper Mining Co.
 BUTTE—Montana Hardware Co.
 GREAT FALLS—Lowery Engineering Co.
 HELENA—Holter, A. M. Hardware Co.
 MISSOULA—Missoula Mercantile Co.

NEBRASKA.

GRAND ISLAND—Upperman & Leiser.
 LINCOLN—Cooper & Cole Bros.
 OMAHA—Crane Co. (of Chicago), Est. 1855.
 (See adv. index, end of book)
 FAIRBANKS, MORSE & CO. (of Chicago), 1102 Farnum. (See adv. index, end of book)
 Lehmer, Jos. R., 1212 Farnam
 U. S. Supply Co., 1108 Harney

NEW HAMPSHIRE.

LANCASTER—Thompson Mfg. Co.
 MANCHESTER—Pike & Hald Co.

NEW JERSEY.

CAMDEN—Fullmer, A. J.
 ELIZABETH—Elizabeth Hardware Co.
 JERSEY CITY—Gibbons, Ernest A. Co., 26
 Jersey City Supply Co., 12 Mercer Morris
 Perkins, Arthur L., 283 Warren
 KEYPORT—Force & Wyckoff
 NEWARK—Banister & Pollard, 206 Market
 Chambers & Co., 2 Commercial
 Crane Co. (of Chicago, Ill.) Est. 1855.
 (See adv. index, end of book)
 Crane & Milligan, 54 Mechanic
 Denny Bros., 15 Mechanic
 Egbert, W. V. & Co., 35 Mechanic
 Gray, R., Jr., 190 Market
 Macknet & Doremus, 796 Broad
 Roe & Conover, 200 Market
 NEW BRUNSWICK—Weigel, Philip, Jr.
 ORANGE—Lindsley, John N.
 PATERSON—McNab & Harlin Mfg. Co. (of New York)
 Myers, G. A. & Co.
 Van Winkle, J. A. Co.
 TRENTON—Katzenbach, F. S. & Co.
 Warren, Balderston & Co.
 WEEHAWKEN—Berger, Edw. W. & Bro.

NEW MEXICO.

ALBUQUERQUE—Whitney Co.

NEW YORK.

ALBANY—Albany Hardware & Iron Co., 43
 State
 Bates, Edw. P. (of Syracuse), 310 B'way
 Hoy & Co., Albany, N. Y.
 Wing, Robt. B. & Son, 385 B'way
 ALBION—Waterman, G. M.
 BINGHAMTON—Gaylord & Eltapence Co.
 Shapley & Wells
 BUFFALO—Buffalo Machinery Co., 24 Burwell
 Case, W. A. & Son Mfg. Co., 31 Main pl
 Dixon & Ballou, Ellicott sq
 Hamill D. L. Co., 60 Delaware av
 Plumbers' & Steamfitters' Supply Co., 246
 Main
 Ruckel, J. H. & Son, 81 Main
 Schaefer & Co., 226 Ellicott
 CANANDAIGUA—Cooley, A. E. Co.
 COHOES—Kavanaugh, Geo. W.
 Sweet & Doyle
 GENEVA—Herendeen Mfg. Co.
 New York Central Iron Works Co.
 Vauce Boiler Works
 GREENPORT—Hedges, Samuel P.
 HORNELL—McGuire, Chas. F.
 KINGSTON—Canfield Supply Co.
 LOCKPORT—American District Steam Co.
 Trevor Mfg. Co.
 NEWBURGH—Smith, Albert C. & Co.
 Smith, W. L.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Delaney, Thos. M., 576 Atlantic
 Jacobs, Geo. P. & Co., 276 S 9th av
 Knight, Thos. G. Co., 52 Myrtle av
 McElraey & Hauck Co., 440 Broadway
 Munkenberg Bros., 88 Hamilton av
 Phillips, Doup & Co., 56 Pearl
 Ronalds & Johnson Co. (of New York), 45
 Scollay, John A., 74 Myrtle av Boerum pl
 Spencer & Haviland, 174 S Portland
 Wilfert, Jno. & Co., 490 Bushwick av

Boroughs of Manhattan & Bronx.

NEW YORK—Adee, Fred & Co., 44 Cliff
Beals, H. H., 51 Cliff
BEGGS, JAS. & CO., 109 Liberty.
New York. (See adv. index, end of book)
Behrer & Co., 81 Beekman
Bernard-Greenwood Co., 20 Desbrosses
Boig & Hill, 216 Fulton
Bushnell, John S. & Co., 227 Fulton
Campbell Supply Co., 161 E 54th
Chase, H. M. & H. F., 50 Church
Clow, Jas. B. & Sons (of Chicago), 17 Battery pl
Colwell Lead Co., 109 Lafayette
CORNELL & UNDERHILL, 47
Beach. (See adv. index, end of book)
Covering & Supply Co., 232 West
Crane Co. (of Chicago), Est. 1855, 490
Cherry. (See adv. index, end of book)
Curran, Jas. Mfg. Co. (Heating Apparatus), 512 W 36th
Dame & Townsend Co., Cliff & Fulton
Dienst, A. P. Co., 2604 3d av
Dinwock & Fink Co., 220 E 125th
DONEGAN & SWIFT, 6 Murray,
New York. (See adv. index, end of book)
Du Bois, F. N. & Co., 243 9th av
Dunham, Carrigan & Hayden Co. (of San Francisco, Cal.), 127 Duane
Fairbanks Co., cor Lafayette & Broome
Federal-Huber Co., 244 5th av
Gallagher, Jos. E., 80 John
Garrett, W. D. & Co., 136 Liberty
Glennin, G. W., 439 W 42d
Gibbons, Jno. V., 133 Greenwich
Gills & Geoghegan, 539 W B'way
GORTON & LIDGERWOOD CO.
(Boilers, Radiators, Valves, etc.), 98 Liberty. (See adv. index, end of book)
Greason Mfg. Co., 108 W 99th
Gurney Heater Mfg. Co. (of Boston), 12 E
Hussey, W. H. & Son, 148 W 35th 42d
International Heater Co. (of Utica, N. Y.),
Kay, Wm. H., 224 Fulton 1 Madison av
Keating, Edw. F. Co., 446 Water
Kelly & Jones Co., 15 Park row
Lederman, Samuel, 562 Amsterdam av
Locke & Smith Co., 103 W 37th
McMann, Thos. R. Sons, 56 Gold
McMANN & TAYLOR, 104 John
(See adv. index, end of book)
McNab & Harlin Mfg. Co., 56 John
McShane, Wm. Co., 711 6th av
MacSorley Co., 44 Manhattan
Manning, Maxwell & Moore, 85 Liberty
Marine Mfg. & Supply Co., 158 South
Markt & Struller Co. (Exporters), 193 West
Mayor, Lane & Co., 128 White
Montgomery & Co., 105 Fulton
Motley, Green & Co. (Inc.), 68 Broad
Mott, J. L. Iron Works, 118 5th av
Murray, John A., 625 6th av
Nason Mfg. Co., 71 Beekman
Nevius, Theo. M., 90 John
Page, Wm. H. Boiler Co., 15 Murray
Pancoast, Rogers & Richards, 28 Platt
PATTERSON, GOTTFRIED &
Hunter (Ltd.), 211 Centre
Peck Bros. & Co. (of New Haven, Conn.), 27
W 42d
Pierce, Butler & Pierce Mfg. Co. (of Syracuse), 254 4th av
Pollock, Alex. Co., 203 West
Ransom, Stephen, 402 West
Roberts, Geo. I. & Bros., 471 4th av
Robertson, Jas. L. & Sons, 48 Warren
ROGERS, HENRY A. CO., 19 John.
(See adv. index, end of book)
Ronalds & Johnson Co., 54 Cliff
Rumsey Pump & Machine Co., 75 Warren
Russell, W. A. & Co., 89 Centre
SIMMONS, JOHN CO., 106 Centre.
(See adv. index, end of book)
Smith, H. B. Co., 39 E Houston
Standard Plumbing Supply Co., St. Ann's
av & 159th
Star Lubeating Co., 232 W 28th
Starratt & Jones Co., 131 Worth
Strong Machinery & Supply Co., 48 Franklin
Tucker, Cummings H., Jr., 135 Greenwich
U. S. Heater Co. (of Chicago & Detroit),
129 Worth
Urquhart's, John S. Son & Co., 131 Liberty
Walker & Chambers, 50 E 20th
Walworth Mfg. Co. (of Boston), 15 Park row
Williams & Wells Co., 250 Fulton

Borough of Queens.

LONG ISLAND CITY—Brodie, Wm., 31 Vernon av
(End of New York City)

NIAGARA FALLS—Elderfield—Hartshorn

Hardware Co.
OGDENSBURG—Nash Bros. & Co.
OSSINING—Barlow & Co.
POUGHKEEPSIE—Adriance, Peter & Son
Poughkeepsie Foundry & Machine Co.
ROCHESTER—Howe & Bassett, 23 Stillson
Reynolds, Jas. Co., 35 Mill
Sloan, Samuel & Co., 67 Exchange
SAUGERTIES—Lamb, Daniel & Son
SCHENECTADY—Stevenson Bros.
SYRACUSE—Bates, Edw. P., 228 W Water
Joy, Edw., 125 Market
Kieffer Bros., 220 N Salina
McClure, R. C. Co., 329 S Clinton
Pierce, Butler & Pierce Mfg. Co., 234 James
Syracuse Supply Co. (Ltd.), 314 W Fayette
TONAWANDA—Gille Machine Co.
TROY—Ald-Don Co., 411 River
Barnes, Wm. H., 14 1st
Barnum Bros. Co., 179 River
Horan, J. J. & Co., 215 River
Mulligan & Schermerhorn, 2d c State
Troy Belting & Supply Co., 6 Grand
UTICA—Bates, Edw. P., 38 Pearl
International Heater Co., 21 Park av
Miller, Chas. & Son Co.
WATERTOWN—Hunting Co.
Spratt, Corcoran & Foley Co.
Weekes, Jno. & Son Co.

NORTH CAROLINA.

CHARLOTTE—Charlotte Supply Co.
General Fire Extinguisher Co. (of Providence, R. I.)
GOLDSBORO—Dewey Bros.
GREENSBORO—Odell Hardware Co.
NEW BERN—Hyman Supply Co.
RALEIGH—Young & Hughes
WINSTON SALEM—Crawford Plumbing & Mill Supply Co.

NORTH DAKOTA.

FARGO—Crane Co. (of Chicago), Est. 1855.
(See adv. index, end of book)

OHIO.

AKRON—Hardware & Supply Co. (Pine & Fittings, etc.)
CANTON—Allman, W. H. Co.
Canton Hardware Co.
McLain, J. H. Co.
Miller, M. W.
Novelty Iron Co.
CINCINNATI—Bourbon Copper & Brass Works, 618 E Front
Crane Co. (of Chicago), Est. 1855 (See adv. index, end of book)
Deckebach, F. C. Sons Co., 129 W Court
FAIRBANKS, MORSE & CO. (of
Chicago), 307 Walnut. (See adv. index, end of book)
Geerin Bros. & Co., 422 E 8th
Hesterberg, Robert & Co., Spring Grove & Gerrard avs

LIDLAW-DUNN-GORDON CO., 211

W 4th. (See adv. index, end of book)
McGowan, John H. Co., 54 Central av
Merkel Bros., Canal & Jackson
Merrie, Hugh, 124 E 8th
Nichol, Thos. J. & Co., cor Pearl & Ludlow
Queen City Supply Co., Pearl & Elm
CLEVELAND—Bingham, Wm. Co., 1455 W
Bliss, Harry A., 315 Long av 9th
Chaffer Co., 431 Champlain av, N W
Crawford, P. R. & Son, Williamson bldg. Chicago, Ill.
FAIRBANKS, MORSE & CO. (of
Chicago). (See adv. index, end of book)
Fisher, E. W. Co., 811 Superior av, N. E.
Kennedy Co., 1310 Huron rd., S. E.
Lockwood-Taylor Hardware Co., 1369 W 9th
McIntosh Hardware Corp'n, 725 Superior.
Metal Sales Co., Citizens' Bldg
PATTISON, W. M. SUPPLY CO., 197-
211 St. Clair av. (See adv. index, end of book)
STRONG, CARLISLE & HAMMOND
Co., 336 Frankfort av, N. W. (See adv. index, end of book)
Worthington, Geo. Co., 814 St. Clair av, N. W.

COLUMBUS—Ascher Supply Co., 288 N High
Columbus Supply Co., 37 W Spring
Engineers' & Plumbers' Supply Co.
Miller, W. H. Co., 80 W Broad
Seloto Valley Supply Co.
DAYTON—Buckeye Iron & Brass Works
Dayton Supply Co.
Larkin M. D. Supply Co., 113 E 3d
DEFIANCE—Defiance Machine Works

FINDLAY—Adams Bros. Co.
Went, C. H.
Wyssbrod, E. V. & Co.
GREENVILLE—Ross Supply Co.
HAMILTON—Walker, John L. Co.
MANSFIELD—Barnes Mfg. Co.
Humphries Mfg. Co.
Ohio Brass Co.
MIDDLETOWN—Arpp, John
NAPOLEON—Heller-Aller Co.
TOLEDO—Arbuckle-Ryan Co., 724 Monroe
Grosswiler, J. F. Supply Co., 133 Michigan
National Supply Co.
TROY—Hatfield & Scott
WARREN—Warren Hardware Co.
YOUNGSTOWN—Stambaugh-Thompson Co.
Scholl, W. J. Co.
ZANESVILLE—Le Roy, Jos. A.

OKLAHOMA.

OKLAHOMA CITY—Crane Co. (of Chicago),
Est. 1855. (See adv. index, end of book)

OREGON.

ASTORIA—Fisher Bros. Co.
PORTLAND—Crane Co. (of Chicago), Est.
1855. (See adv. index, end of book)
FAIRBANKS, MORSE & CO. (of
Chicago) (See adv. index, end of book)
Gauld Co., 14 N 1st
Kline, M. L., 84 Front
McPherson, W. G. Co., 47 1st

PENNSYLVANIA.

ALLEGHENY—Carlin Machinery & Supply
ALLEN TOWN—Aibright, Son & Co. Co., Inc.
Taylor, Wm. H. & Co.
ALTOONA—Standard Supply & Equipment Co.
ASHLAND—Buck, Peter E. & Sons
BETHLEHEM—Rlee, Fred J
BRADFORD—Bovalrd & Seyfang Mfg. Co.
Emery, L. Jr., & Co.
Oil Well Supply Co. (of Pittsburg)
BUTLER—Campbell, J. G. & W.
Kesselman & Co.
Masseth Paeker & Machine Works, Bntler, Pa.
CARBONDALE—Van Bergen & Co.
CHAMBERSBURG—Gilbert, Daniel
CHESTER—Riley, Benj. F.
CHICORA—Hays, E. F.
Hoch Bros. Co.
CLARION—Magee, John A. & Son
CONSHOHOCKEN—Bate, Wm. T. & Son
CORRY—Barlow Hardware Co.
DUBOIS—Dubois Iron Works
DUKE CENTER—Berry & Duke
EMLENTON—Bennett Hardware Co.
Mitchell, H. B. & Co.
Weller, J. A. & Son
ERIE—Erie Mfg. & Supply Co.
Jarecki Mfg. Co.
FRANKLIN—Emery, W. N. & Son
FREELAND—Birkbeck, Wm.
Freeland Plumbing & Plumbing Supplies Co.
GREENSBURG—Kelly & Jones Co. (of Pittsburg)
GREENVILLE—Packard Hardware Co.
HARRISBURG—Harrisburg Steam Heat & Power Co.

Mather, Edmund & Co., 36 N 2d
HAZLETON—Bright, J. C. & Co.
Hazleton Machinery & Supply Co.
JOHNSTOWN—Johnstown Supply House
Swank Hardware Co.
KINGSTON—Roat, A. J. Supply Co.
LANCASTER—Central Machine Works
Reilly Bros. & Ranb
Sheet Metal & Supply Co.
Steinman Hardware Co.
LATROBE—Gilligan, Jno.
LEBANON—Krause, Geo. Hardware Co.
LEWISBURG—Proctor, G. W. & Son
MECHANICSBURG—Hauck Bros.
MEYERSDALE—Shiple Hardware Co.
MOUNT JOY—Moyer Gabriel
OIL CITY—Logan, Rpb.
Oil Well Supply Co. (of Pittsburg)
United Hardware & Supply Co.
PHILADELPHIA—Belfield, H. & Co., 435 N
Bell, Harry E., 212 Church Broad
Billington, J. H. Co., 113 Chestnut
Blessing, C. A., 516 Montgomery av
Bond, Chas., 520 Arch
Bowman, H. L. & Co., 31 S 4th
Bridgman Bros. Co., 1422 Washington av
Brogan & Co., 810 Race
Cox & Sons Co., 215 Race
Crane Co. (of Chicago), Est. 1855, 245
Master.. (See adv. index, end of book)
Fleck Bros. & Co., 44 N 5th
Ford & Kendig Co., 1432 Callowhill

Froelich Bros., 142 N 7th
Haddock, Chas., 343 N 3d
Haines, Wm. S. Co., 136 S 4th
Haines, Jones & Cadbury Co., 1136 Ridge
Hartman Co., 1231 N Front
Hunter & Dickson Co., 15 Washington av
Huyette, Paul B. Co., Inc., 1225 Betz bldg
Maddock & Co., 40 N 6th
Maneely, John, 309 Arch
Manning, Maxwell & Moore, 721 Arch
Model Heating Co. (Steam Heating Apparatus, etc.), 142 N 10th
Mott, J. L. Iron Works, Commonwealth Trust bldg
Pancoast, Henry B. & Co., 243 S 3d
Penn Engineering Co., 1119 N Howard
Perkes, Chas., 627 Arch
Rinear, C. J. & Co., 518 Arch
Ronalds & Johnson Co. (of New York), 139
Schade, Albert Co., 56 N 2nd N 7th
Sees & Faber, 2010 N Front
Shuster Foundry Co., Franklin & Willow
Spaulding & Metcalf, 532 Arch
Standard Supply & Equipment Co., 1710 Market

Tatnall Engineering Co., Arcade bldg
Toomey, Frank J., 131 N 3d
Watt's John M. Sons, 54 N 2nd
Webb, Elisha & Son Co., 136 S Front
Whetstone & Co. (Inc.) (Pipe & Fittings, etc.), 911 Filbert

Williamson & Cassidy, 526 Market
PHOENIXVILLE—Caswell & Moore

PITTSBURGH—Anchor Sanitary Co., 123 3d av
Bailey-Farrell Mfg. Co., 3rd av & Ross
Duquesne Sanitary Co., 426 2d av
Frick & Lindsay Co., 109 Wood
Harris Pump & Supply Co., 322 2d av
Heyl & Patterson, 51 Water
Hickman, V. Q., 345 4th av
Hyde Bros. & Co., 316 4th av
Jarecki Mfg. Co. (Ltd.) (of Erie, Pa.), 1005
Kelly & Jones Co., 135 Water Liberty av
Konold, M. J. Co., Bessemer bldg
McKnight & Victory, 413 4th av
OIL WELL SUPPLY CO., 215 Water.
(See adv. index, end of book)

PITTSBURGH GAGE & SUPPLY Co., 30th & Liberty av. (See adv. index, end of book)

Pittsburg Supply Co., 439 Water
PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A V R'y. (See adv. index, end of book)

Reineke-Wilson Co., 15 Wood
Russell Machine Co., 28th & Spruce av
Somers, Filter & Todd Co., 327 Water
Standard Supply & Equipment Co., 1151 Liberty av

Turner, Chas. A., 1319 Grandview av
Valley Supply Co., 203 Water

POTTSTOWN—Fegely, J. & Son
POTTSVILLE—Bright & Co.
Pottsville Supply Co.

READING—Bright & Co., 504 Penn
Connard, Henry, 6th & Chestnut
Greth Machine Works (Inc.), 629 Franklin
Reading Scale & Machine Co.
Stichter Hardware Co. (Ltd.)
Xander Machine & Supply Co.

SCRANTON—Everhart Brass Works
Hunt, Alex. E.
O'Malley Mfg. Co.
Scranton Supply & Machinery Co.

SHARON—Fruit-Ohl & Co.

SOMERSET—Schell, P. A. & Co. (of Connellsville)

TITUSVILLE—Kernochan & Co. (of Connellsville)

United Hardware & Supply Co.

TUNKHANNOCK—Billings, Paul & Co.

WARREN—Picket Hardware Co. Ltd.

WILKES-BARRE—Carpenter, B. G. & Co.

Phelps, Lewis & Bennett Co.

WILLIAMSPORT—Keeler, E. Co.

Kline & Co.

Moltz, Jacob J.

YORK—Small, P. A. & S.

RHODE ISLAND.

PAWTUCKET—Jackson, Samuel Co.

PROVIDENCE—Allen & Reed (Inc.), 178 Dor-

Conlin, J. C., 34 S Water

General Fire Extinguisher Co., Union Trust bldg

Phillips Lead & Supply Co., 91 S Main

R. I. Supply & Engineering Co., 156 W Exchange

Winsor, Ira & Co., 169 Dorrance

SOUTH CAROLINA.

CHARLESTON—Bailey-Lebby Co.

Cameron & Barkley Co.

Valk & Mnrdoch Iron Works

SOUTH DAKOTA.

WATERTOWN—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

TENNESSEE.

CHATTANOOGA—Fritts, Tom Hardware Co.

James Supply Co.

JACKSON—Southern Engine & Boiler Works

KNOXVILLE—Scott's Patent Brick Car Co.

MEMPHIS—Bailey, J. A. & Co.

Browne & Borum

Chickasaw Iron Works

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Orgill Bros. & Co.

Riechman-Crosby Co.

NASHVILLE—Fall, J. H. & Co. (Inc.)

Keith, Simmons & Co.

Nashville Machine Co.

TEXAS.

AUSTIN—Tips, Walter

DALLAS—Briggs-Weaver Machinery Co.

Kinnison Bros.

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Wolfe, B. F. & Co.

GALVESTON—Shean, Paul Sanitary Plumbing & Mfg. Co.

HOUSTON—Heitman, F. W. Co.

Smith, Howard & Co.

SAN ANTONIO—Collins-Gunther Co.

San Antonio Machine & Supply Co.

TYLER—Connally, Walter & Co.

Smith & Marsh

WACO—Strauss, E.

UTAH.

OGDEN—Halverson Bros.

SALT LAKE CITY—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (of Chicago), 218 S. W. Temple. (See adv. index, end of book)

Salt Lake Hardware Co.

Silver Bros. Iron Works Co.

VERMONT.

BELLOWS FALLS—Allbee, Geo. B.

RUTLAND—Lincoln Iron Works

Steam Stone Cutter Co. (Valves, Pipe & Fittings, etc.)

VIRGINIA.

CHARLOTTEVILLE—Wood, J. Edwin Co.

LYNCHBURG—Barker-Jennings Hardware Co.

NORFOLK—Taylor, W. H. & Co.

Virginia-Carolina Supply Co.

Walke, Henry Co.

White, E. V. & Co. (Inc.)

PETERSBURG—Stratton & Bragg Co.

RICHMOND—Bargamin, G. & A.

Frischkorn, Hunter B.

Smith-Courtney Co.

Sydnor Pump & Well Co.

ROANOKE—Nelson Hardware Co.

SUFFOLK—Folk, E. L. & Co.

WASHINGTON.

BELLINGHAM—Morse Hardware Co.

OLYMPIA—Olympia Hardware Co.

SEATTLE—Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Hambach, A. Co.

Hofins Steel & Equipment Co. (Pipe, etc.)

Kellogg-Mackay Co.

Mitchell, Lewis & Staver Co.

Moran Co.

Puget Sound Machinery Depot

Washington Iron Works Co.

SPOKANE—Barnard Mfg. Co.

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

FAIRBANKS, MORSE & CO. (See adv. index, end of book)

Holley, Mason Hardware Co.

Spokane Hardware Co.

TACOMA—Caldwell Bros. Co. (Inc.)

Crane Co. (of Chicago), Est. 1855. (See adv. index, end of book)

Hunt & Mottet Co.

Washington Hardware Co.

WEST VIRGINIA.

CHARLESTON—Capitol City Supply Co.

South Side Foundry & Machine Works

CLARKSBURG—Clarksburg Supply Co.

HUNTINGTON—Miller Supply Co.

PARKERSBURG—Stiles Foundry & Supply Co.

NEW CUMBERLAND—Davis-Price Foundry & Machine Co.

WHEELING—Hare's, Wm. Sons
Trimble & Lutz Supply Co.

WISCONSIN.

EAU CLAIRE—Brooks, Jas. H.

Hobbs, W. H. Supply Co.

GREEN BAY—Kimball, Chas., Jr.

HURLEY—McConnell Hardware Co.

LA CROSSE—Roosevelt, W. A. Co.

MANITOWOC—Richards Iron Works

MILWAUKEE—Bowers, W. A. Heating Co., 482 Market

Downey & Kruse Co., 112 2nd

Hoffmann, B. Mfg. Co., 257 6th

Hoffman & Billings Mfg. Co., 100 2nd

Milwaukee Valve Co., 881 Robinson av

Mueller, L. J. Furnace Co. (Heating Apparatus & Supplies), 197 Beed

Rom, Robt. Co., 1101 St. Paul av

Rundle-Spence Mfg. Co., 63 2d

Wisconsin Machinery & Mfg. Co., S Canal

Yale, H. P. & Co., 99 W Water

OSHKOSH—Battis Bros.

RACINE—Davis Heater Co.

WAUPUN—Althouse-Wheeler Co.

WAUSAU—Murray, D. J. Mfg. Co.

Steam Heating Apparatus

(See Heaters, Steam & Hot Water; also Radiator Manufacturers; also Valve Manufacturers, Various Kinds; also Steam Fitters' Supplies, Etc.)

Steam Tables for Culinary Purposes

(See Cooking Apparatus)

Steel (Agricultural Implement)

(See also Steel Bar Mills; also Steel, Crucible)

American Sheet & Tin Plate Co. (Sheet), Pittsburg, Pa.

Buffalo Steel Co. (Bessemer, Harrow & Cultivator Bars, Plow Beams, etc.), Tonawanda, N. Y.

Calumet Steel Co. (Bessemer Cultivator Bars, Angles, Channels, etc.), Commercial B'k bldg, Chicago, Ill.

Cambria Steel Co., Arcade bldg, Phila., Pa.

Colonial Steel Co. (Soft Center, Crucible & Open Hearth Plow Steel, etc.), Pittsburg, Pa.

Crucible Steel Co. of America (Crucible & Open-Hearth), Pittsburg, Pa.

Elyria Iron & Steel Co. (High Carbon Shapes, Angles, Tubing, etc.), Elyria, O.

Harrow Spring Co., Kalamazoo, Mich.

Inland Steel Co., First Nat'l Bank bldg, Chicago, Ill.

Interstate Iron & Steel Co. (High Carbon Steel Cultivator Beams, I & U Harrow Bars, etc.), 1st National Bank bldg, Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburg, Pa.

La Belle Iron Works (Special Plates, Plow Slabs, etc.), Steubenville, O.

Lackawanna Steel Co. (Bessemer & Open Hearth), Buffalo, N. Y.

Norwalk Steel & Iron Co. (Soft Center Plow Steel, etc.), Norwalk, O.

Republic Iron & Steel Co. (Angles, Channels, Plow Beams, U Bars, etc.), Pittsburg, Pa.

Ryerson, Jos. T. & Son (Jobbers), Chicago, Ill.

Sweet's Steel Co., Williamsport, Pa.

Union Drawn Steel Co. (Cold Drawn), Beaver Falls, Pa., & 400 Washington, New York

Steel (Alkali Drum)

American Sheet & Tin Plate Co., Frick bldg, Pittsburg, Pa.

*Steel (Alloy & Carbon)

FRASSE, PETER A. & CO., 130

Worth, New York. (See adv. index & branch offices, end of book)

Steel (Aluminum & Bronze Clad)

Duplex Metals Co. ("Monnot" Bars, Rods, Sheets & Wire), 145 B'way, New York

Steel Angles, Channels & Tees

(See Steel Structural Mills, and note the matter following each name)

Steel Automobile Sheets

(See also Iron & Steel Sheet, Black and Galvanized)

American Sheet & Tin Plate Co., Frick bldg. Pittsburgh, Pa.

Columbia Steel Co. (Automobile Frame Steels), Elyria, O.

MERCHANT & EVANS CO. (Inc.) (Also Tin Sheets), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

National Sheet Steel Co., Mansfield, O.

Wood, Alan Iron & Steel Co., 519 Arch, Phila., Pa.

WORCESTER PRESSED STEEL CO. Worcester, Mass. (See adv. index, end of book)***Steel Automobile (Special)****MERCHANT & EVANS CO. (Inc.), 517** Arch, Phila., Pa. (See adv. index & branch offices, end of book)**Steel Bands & Hoops**

(See Iron & Steel, Band & Hoop)

Steel Bar Mills

(See also Iron Bar Mills; also Steel, Crucible)

American Bridge Co. (Open Hearth), Pittsburgh, Pa.

American Horse Shoe Co. (Steel Bars), Phillipsburg, N. J.

American Iron & Steel Mfg. Co. (Merchant Bar), Lebanon, Pa.

AMERICAN ROLLING MILL CO. (Basic Open Hearth), Middletown, O. (See adv. index, end of book)**AMERICAN STEEL & WIRE CO.** (Open Hearth), Commercial Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

American Tube & Stamping Co. (Crucible), Bridgeport, Conn.

Atlanta Steel Co. (Basic Open Hearth, Rounds, Flats, Squares, etc.), Atlanta, Ga.

Atlas Steel Co. (High Grade Crucible, "Loco" High Speed Steels, "Atlas" Tempering Steels), Dunkirk, N. Y.

Bethlehem Steel Co. (Nickel & Nickel Chrome for Files, Screws, Wire Rods, etc.), South Bethlehem, Pa.

Braeburn Steel Co. (Crucible Bar & Tool Steel), Braeburn, Pa.

Brown & Co. (Inc.) (Crucible Bar & Tool Steel), Pittsburgh, Pa.

Buffalo Steel Co. (Bessemer Steel), Tonawanda, N. Y.

Calumet Steel Co. (Bessemer), Commercial Bank bldg, Chicago, Ill. Works, Washington Heights, Ill.

Cambria Steel Co. (Bessemer & Open Hearth), Arcade bldg., Phila., Pa.

Carnegie Steel Co. (Open Hearth & Bessemer Merchant Bar). General Offices: Pittsburgh, Pa.

Carpenter Steel Co. (Crucible Tool Steel), Reading, Pa.

Colonial Steel Co. (Open Hearth Merchant Bars & Crucible Steel Bars), Pittsburgh, Pa.

Colorado Fuel & Iron Co. (Bessemer & Open Hearth Merchant Bars), Denver, Colo.

Columbia Tool Steel Co. (Rolled & Hammered Crucible Tool & Machinery), Chicago Heights, Ill.

Crucible Steel Co. of America (Crucible & Open Hearth Merchant Bar & Hammered & Rolled Tool Steel), Pittsburgh, Pa.

Cyclops Steel Works ("Cyclops," Crucible & Open Hearth Hammered, Rolled & Bar Tool Steel), Titusville, Pa.

Damascens Tool Steel Co. (Crucible for Tools, Dies, etc.), Pittsburgh, Pa.

Eastern Steel Co. (Bar Steel), Pottsville, Pa.

Eckels-Nye Steel Co. (Bessemer & High Carbon Merchant Steel), Syracuse, N. Y.

Elmira Rolling Mill Co. (Refined Bar), Elmira Heights, N. Y.

Empire Rolling Mill Co. (Merchant Bar Steel), Cleveland, O.

Falls Hollow Staybolt Co. (Staybolt), Cuyahoga Falls, O.

Farist Steel Co. (Rolled & Hammered Crucible & Open Hearth), Bridgeport, Conn.

Firth-Sterling Steel Co. ("Blue Chip" Crucible Tool Steel), McKeesport, Pa.

Halcomb Steel Co. (High Grade Crucible Tool Steel & Rolled & Hammered Crucible & Open Hearth Steel), Syracuse, N. Y.

Harrow Spring Co. (Merchant & Machinery Steel), Kalamazoo, Mich.

Highland Iron & Steel Co. (Merchant Bar), Terre Haute, Ind.

Hirsch Rolling Mill Co. (Merchant Bar & Refined Steel), St. Louis, Mo.

Illingworth, Jno. Steel Co. (Hammered & Rolled Crucible Steel Bars; also Rolled & Hammered Open Hearth Steel), Frankford, Phila., Pa.

Illinois Steel Co. (Merchant Bars, Bessemer & Open Hearth), 115 Adams, Chicago, Ill.

Interstate Iron & Steel Co. (High Carbon Steel & Soft Steel Flats, Rounds, Squares, etc.), 1st Nat'l Bank bldg., Chicago, Ill.

Janson Steel & Iron Co. (Rounds, Flats, Squares, etc.), Columbia, Pa.

Jones & Laughlin Steel Co. (Rounds, Squares, Ovals, Flats, Hexagons, etc.), Pittsburgh, Pa.

Kenton Iron & Steel Co. (Steel Bars), South Charleston, W. Va.

Lackawanna Steel Co. (Open Hearth Merchant Steel Bars, Rounds, Squares & Flats, for Car Builders, Agricultural Implements, Bolts, etc.), Buffalo, N. Y.

Lockhart Iron & Steel Co. (Soft Steel in Bars), McKees Rocks, Pa.

Ludlum Steel & Spring Co. (Pure Carbon Crucible Tool Steel for Taps, Dies, Cutters, Reamers, Chisels, Drills, etc.), Watervliet, N. Y.

McINNES STEEL CO. (Ltd.) (Hammered Tool Steel, Air Hardening Steel & "Cello" Oil Tempered Steel), Corry, Pa. (See adv. index, end of book)

Midvale Steel Co. (Crucible & Open Hearth), Nicetown, Phila., Pa.

National Rolling Mill Co. (Bar & Finished), Vincennes, Ind.

New Haven Iron & Steel Co. (Merchant Bar & Band Iron & Steel for Bolt, Nut, Rivet Drop Forging, Horse Shoe Rods, Carriage Works, etc.; also Ovals, Half Ovals, Half Rounds, Hexagons, Bevel Edges, Small Channels), New Haven, Conn.

Norfolk Steel & Iron Co. (Crucible, Die, Black & Tool Steel, etc.), Norfolk, O.

Oliver Iron & Steel Co. (Rounds, Squares, Flats & Special Shapes), Pittsburgh, Pa.

Otis Steel Co. (Acid & Basic Open Hearth), Cleveland, O.

Pardee, C. Works (Merchant Bars), Perth Amboy, N. Y.

Penna. Steel Co. (Bessemer & Open Hearth Merchant Bar, Round, Flat & Square Steel), Girard bldg, Phila., Pa. Works, Steelton, Pa.

Phoenix Iron Co. (Open Hearth Steel), 410 Walnut, Phila., Pa. Works, Phoenixville, Pa.

Railway Steel Spring Co. (Open Hearth Flats, Rounds, Squares, etc.), 30 Church, New York

Republic Iron & Steel Co. (Soft & Hard Merchant Steel), Pittsburgh, Pa.

Rockaway Rolling Mill (Steel Bars), Rockaway, N. J.

Schuylkill Haven Iron & Steel Co. (Steel Bars, Rounds, Squares, etc.), Schuylkill Haven, Pa.

Susquehanna Iron Co. (Merchant Bar Steel), Columbia, Pa.

Sweet's Steel Co. (Merchant Bar Steel, Special Open Hearth, Flat, Round, Square, Ovals, etc.), Williamsport, Pa.

Tennessee Coal, Iron & Railroad Co. (Steel Bars), Birmingham, Ala.

Union Rolling Mill Co. (Soft Steel Bars), Cleveland, O.

Vulcan Crucible Steel Co. (Crucible & Open Hearth Rolled & Forged), Allgippla, Pa.

Wood, Alan Iron & Steel Co., 519 Arch, Phila., Pa.

***Steel Bars (Finished)**

(See also Shafting, Polished Steel)

STANDARD GAUGE STEEL CO.

(Squares, Rounds, Flats, Hexagon & Finished Shapes), Beaver Falls, Pa. (See adv. index, end of book)

Steel Bars for Reinforced Concrete

(See Concrete Reinforcing Materials)

Steel Beams

(See Steel Structural Mills)

Steel Bedstead Angles

(See also Steel Structural Mills; also Tubing, Various Kinds)

Buffalo Steel Co. (Bessemer Steel), Tonawanda, N. Y.

Elyria Iron & Steel Co. (High Carbon Steel), Elyria, O.

Inland Steel Co., First National Bank bldg, Chicago, Ill.

Steel Billets & Blooms

(See Billets, Blooms & Slabs, Steel)

Steel Boiler & Tank Plate

(See Iron & Steel Boiler & Tank Plate)

Steel Brick & Rock Face Siding

(See also Roofing & Siding, Iron & Steel)

American Sheet & Tin Plate Co., Pittsburgh, Pa.

BERGER MFG. CO., THE. Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

Cambridge Roofing Co., Cambridge, O.

Canton Art Metal Co., Canton, O.

CANTON MFG. CO., Canton, O. (See adv. index, end of book)

Chattanooga Roofing & Fdry. Co., Chattanooga, Tenn.

Dickelman Mfg. Co., Forest, O.

EDWARDS MFG. CO., 545-565 Eggleston av. Cincinnati, O. (See adv. index, end of book)

Eller Mfg. Co., Canton, O. (See adv. index, end of book)

Goff, Horner & Co. (Ltd.), Pittsburgh, Pa.

Inland Steel Co., 1st Nat'l Bk. bldg, Chicago, Ill.

Kanneberg Roofing & Ceiling Co., Canton, O.

Mesker, Geo. L. Co., Evansville, Ind.

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Penn Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Sheet Metal Mfg. Co., Niles, O.

Souther, E. E. Iron Co., St. Louis, Mo.

Stoneware Tile Co., Louisville, O.

Thomas Steel Co., Niles, O.

Wheeling Corrugating Co., Wheeling, W. Va.

Steel Bridge Plate

American Bridge Co. (Open Hearth), Pittsburgh, Pa.

Carbon Steel Co. (Open Hearth), Pittsburgh, Pa.

Carnegie Steel Co., Pittsburgh, Pa.

Central Iron & Steel Co., Harrisburg, Pa.

Cleveland Steel Co., Cleveland, O.

Crucible Steel Co. of America, Pittsburgh, Pa.

Eastern Steel Co., Pottsville, Pa.

Glasgow Iron Co. (Open Hearth Steel; also Iron), Pottstown, Pa.

Illinois Steel Co., 115 Adams, Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburgh, Pa.

Lukens Iron & Steel Co. (Open Hearth), Coatesville, Pa.

Lucknow Iron & Steel Co. (Iron & Steel), Harrisburg, Pa.

Maryland Steel Co., Baltimore, Md.

Parkersburg Iron & Steel Co., Parkersburg, W. Va.

Phoenix Iron Co., 410 Walnut, Philadelphia, Pa.

Republic Iron & Steel Co., Pittsburgh, Pa.

Steel Bridges

(See Steel Structural Work)

Steel Buildings

(See Steel Structural Work)

Steel Ceilings

(See Ceilings, Sheet Steel)

Steel Cellar Doors

Harrisburg Foundry & Machine Works, Harrisburg, Pa.

MERRITT & CO., 94 Arch, Camden, N. J. (See adv. index, end of book)**SCHREIBER, L. & SONS CO., 8th & Eggleston av. Cincinnati, O.** (See adv. index & branch offices, end of book)

Steel Channels

(See Steel Structural Mills)

Steel Chimneys

(See Smoke Stacks, Steel)

Steel (Cold Drawn)**AMERICAN STEEL & WIRE CO.**Commercial Nat'l B'k bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)Carpenter Steel Co. (Crucible Steel & Wires),
Reading, Pa.Columbia Steel & Shafting Co. (Drawn &
Polished Squares, Flats, Hexagons &
Shapes, etc.), Pittsburgh, Pa.Crucible Steel Co. of America (Crucible, Bright
Drawn), Pittsburgh, Pa.

Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.

Finished Steel Co., Youngstown, O.

Halcomb Steel Co. (Crucible), Syracuse, N. Y.

Jones & Laughlin Steel Co. (Rounds, Squares,
Hexagons, Flats, Angles, Zees, Plates,
Sheets, etc.), Pittsburgh, Pa.Kidd Bros. & Burgher Steel Wire Co. (Free
Cutting Screw, etc.), Aliquippa, Pa.Pardec, C. Works (Flats, Shafting, etc.),
Perth Amboy, N. J.Pittsburg Shafting Co., of Detroit (Die Draw-
ing, Nickel, etc.), Detroit, Mich.Pittsburg Tool Steel Wire Co. (Tool for Twist
Drills, Taps, etc.), Monaca, Pa.Republic Iron & Steel Co. (Piston & Pump
Rods, Lead Screws, Fine Machine Rods,
Line Shafting, etc.), Pittsburgh, Pa.Superior Steel Co., Pittsburgh, Pa. Works,
Carnegie, Pa.**UNION DRAWN STEEL CO. (Rounds,**Flats, Squares, Hexagons, Sheets &
Shapes), Beaver Falls, Pa., & 460 Wash-
ington, New York**WORCESTER PRESSED STEEL CO.**Worcester, Mass. (See adv. index, end of
book)***Steel (Cold Pressed)****STANDARD GAUGE STEEL CO. (Fin-**ished Flats, Squares, Angles, Channels &
Special Shapes), Beaver Falls, Pa. (See
adv. index, end of book)**WORCESTER PRESSED STEEL CO.**Worcester, Mass. (See adv. index, end of
book)**Steel (Cold Rolled)**American Sheet & Tin Plate Co. (Sheets),
Pittsburg, Pa.**AMERICAN STEEL & WIRE CO.**(Shafting, Flat Wire, etc.), Commercial
Nat'l B'k bldg, Chicago, Ill. (See adv. in-
dex & branch offices, end of book)American Tube & Stamping Co. (Hoop, Strip
& Bar), Bridgeport, Conn.Brooksbank, Mullin & Co. (Dannemora, Im-
ported Hot & Cold Sheet), 409 Commerce,
Phila., Pa.Cambria Steel Co. (Rounds, Squares, Hexagons,
Flats, Angles, Tees & Zees), Arcade bldg,
Phila., Pa. Works, Johnstown, Pa.Carpenter Steel Co. (Crucible Steels & Wires),
Reading, Pa.Columbia Steel & Shafting Co. (Hexagons,
Squares, Flats, etc.), Pittsburgh, Pa.Columbia Steel Co. (Sheets, Bars, Strips, etc.),
Elyria, O.Crucible Steel Co. of America (Crucible, Flats,
etc.), Pittsburgh, Pa.Cumberland Steel Co. (Flats, Squares & Hexa-
gons), Cumberland, Md.Disston, Hy. & Sons (Inc.) (Hexagons, Squares,
Flats, etc.), Tacony, Phila., Pa.Empire Iron & Steel Co. (Bessemer & Open
Hearth Steel Sheets), Niles, O.Goff, Horner & Co. (Special Open Hearth
Steel Sheets for Ceilings & Stamping Pur-
poses), Frick bldg, Pittsburgh, Pa. Works,
Zanesville, O.Halcomb Steel Co. (Crucible & Basic Open-
Hearth Bar, Strips, etc.), Syracuse, N. Y.Illingworth, Jno. Steel Co. (Bars), Frankford,
Phila., Pa.Jones & Laughlin Steel Co. (Hexagons, Squares,
Flats, Plates, Sheets, Bars, Rods, etc.),
Pittsburg, Pa.Kidd Bros. & Burgher Steel Wire Co. (Flats),
Aliquippa, Pa.Miller & Van Winkle (Hexagons, Squares,
Flats, etc.), 20 Bridge, Brooklyn, N. Y.Morris & Bailey Co. (Sheets), German Na-
tional Bank bldg, Pittsburgh, Pa.

National Sheet Steel Co. (Sheets), Mansfield, O.

Parkersburg Iron & Steel Co. ("National"
Bessemer Sheets), Parkersburg, W. Va.Pittsburg Shafting Co. of Detroit, Detroit,
Mich.Republic Iron & Steel Co. (Rounds), Frick
bldg Annex, Pittsburgh, Pa.**STANLEY WORKS (Strip), New Britain**Conn., & 79 Chambers, New York. (See
adv. index, end of book)**UNION DRAWN STEEL CO. (Rounds,**Flats, Squares, Hexagons, Sheets & Shapes,
Bessemer, Open Hearth, Crucible, Cold Die
Rolled Steel), Beaver Falls, Pa., & 460
Washington, New YorkWashburn Wire Co. (Rounds, Squares &
Flats), Phillipsdale, R. I., & 118th & Har-
lem River, N. Y.West Leechburg Steel Co. (Hot & Cold Rolled
Strip), Pittsburgh, Pa. Works, Leechburg,
Pa.Wood, Alan Iron & Steel Co. (Sheets), 515
Arch, Phila., Pa.**WORCESTER PRESSED STEEL CO.**Worcester, Mass. (See adv. index, end of
book)**Steel (Cold Rolled Strip)****AMERICAN STEEL & WIRE CO.**Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)American Tube & Stamping Co. Bridgeport,
Conn.Carpenter Steel Co. (Crucible Spring), Read-
ing, Pa.Columbia Steel Co. (Flats in Widths from 1/2
to 15 1/2 inches; in all Gauges from very
thin to 3-8th inch thick), Elyria, O.

Crucible Steel Co. of America, Pittsburgh, Pa.

Disston, Henry & Sons (Inc.), Tacony, Phila.,
Pa.Elliott-Blair Steel Co. (Fine Bright Dead Soft
for Sewing Machines, Typewriter, Bicycle
Parts, etc.), New Castle, Pa.Halcomb Steel Co. (Crucible & Basic, Open
Hearth), Syracuse, N. Y.Miller & Van Winkle, 20 Bridge, Brooklyn,
N. Y.Morris & Bailey Steel Co., German Nat'l Bank
bldg, Pittsburgh, Pa.Pittsburg Shafting Co., of Detroit, Detroit,
Mich.**STANLEY WORKS, New Britain, Conn.**

(See adv. index & branch offices, end of book)

Superior Steel Co. (For Stamping & Drawing,
etc.), Pittsburgh, Pa. Works Carnegie, Pa.West Leechburg Steel Co. (For Blanking,
Stamping & Drawing), Pittsburgh, Pa.
Works Leechburg, Pa.**WORCESTER PRESSED STEEL CO.**Worcester, Mass. (See adv. index, end of
book)***Steel (Cold & Hot Rolled Sheet)****WORCESTER PRESSED STEEL CO.**Worcester, Mass. (See adv. index, end of
book)**Steel (Copper Clad)**Duplex Metals Co. ("Monnot" Bars, Rods,
Sheets & Wire), 149 B'way, New York**Steel Corner Plates**

(See Plasterers' Steel Corner Beads)

Steel (Corrugated)

(See Iron & Steel, Corrugated)

Steel (Crucible)(For Crucible Steel Castings, see Castings,
Steel, with the Word Crucible Following
Their Name)Atlas Steel Co. ("Loco" High Speed Steels,
"Atlas" Tempering Steels, Ingots which
will be Hammered into Bars, Squares,
Rounds, Flats, Octagons, Hexagons, etc.,
for Tools, Drills, Lathes, Dies, etc.), Dun-
kirk, N. Y.Baldwin Steel Co. (High Grade Tool Steel &
Forgings), 133 Reade, New York. Works:
Charleston, W. Va.Braeburn Steel Co. (Bar & Tool, Rolled &
Forged), Braeburn, Pa.Bethlehem Steel Co. (Forgings, Self Hardening
& Carbon Tool Steel Billets, Shafting, En-
gine Cranks, Forged Armor Plate, etc.),
South Bethlehem, Pa.

Brown & Co. (Inc.) (Tool Steel), Pittsburgh, Pa.

Carpenter Steel Co. (Tool Steel for Files, Cut-
lery, Dies, Wire, etc.), Reading, Pa.Chrome Steel Works (Chrome Steel Plates,
Angles, Bars, etc.), Chrome, N. J.Colonial Steel Co. ("Red Star" Tool & Drill
Steel; also Bars, Sheets, Plates, Circular
Saw Plates, Merchant Steel & Forgings,
etc.), Pittsburgh, Pa.Columbia Tool Steel Co. (Hammered & Rolled
Tool & Machinery Steel), Chicago Heights,
Ill.Crucible Steel Co. of America (Hammered &
Rolled Tool, Die, Agricultural, Plow, Saw,
Spring, Cutlery, Plate, Cold Drawn Sheet,
Shear Steel & Finest Quality of Tool Steel),
Pittsburg, Pa.Cyclops Steel Works (Chas. Burgess, Prop.)
(Special Tool Steel & Extra Refined Ham-
mered Iron), Titusville, Pa.Damascus Tool Steel Co. (Bars, Damascus &
Nickel Steel for Tools, Dies, etc.; also
Angles, Ell Bars, etc.), Pittsburgh, Pa.Disston, Henry & Sons (Inc.) (Bar Tool, Cold
Roll Bands, Engravers Plates, Flat Wire &
Special Steel), Tacony, Phila., Pa.Farist Steel Co. (Rolled & Hammered, All
Kinds), Bridgeport, Conn.Firth-Sterling Steel Co. ("Blue Chip" Fine
Tool Steel), McKeesport, Pa.**FRASSE, PETER A. & CO. (High**Speed Tool Steel), 130 Worth, New York.
(See adv. index & branch offices, end of book)Halcomb Steel Co. (Finest Quality of Tool
Steel, Hammered & Rolled Bars, Sheets &
Forgings), Syracuse, N. Y.Illingworth, Jno. Steel Co. (Hammered & Roll-
ed Bars & Sheets for Tools, Saws, Knives,
Files, etc.), Frankford, Phila., Pa.Imperial Steel Co. (Nickel, Chrome & Tungsten
Machinery Steel), Cleveland, O.Jessop Steel Co. (Sheet & Saw Steel, etc.),
71 John, New York. Works, Washington,
Pa.Kidd Bros. & Burgher Steel Wire Co. (Cold
Drawn all Shapes, Drawn Header & Drawn
Grip Die Steel), Aliquippa, Pa.Ludlum Steel & Spring Co. (Pure Carbon Tool
Steel for Taps, Dies, Cutters, Reamers,
Chisels, Drills, etc.), Watervliet, N. Y.**McINNES STEEL CO. (Ltd.) ("Mc-**Innes" Tool & Air Hardening & "Cello"
Steel), Corry, Pa. (See adv. index, end of
book)Midvale Steel Co. (Hammered & Forged),
Ninetown, Phila., Pa.Norfolk Steel & Iron Co. (Ingots, Hammered &
Rolled Machinery Steel, Spring, Plow, Die
Block, Discs, Tool & Alloy Steel, etc.),
Norfolk, O.**McINNES CRUCIBLE TOOL STEEL HAS NO EQUAL**

For TRACK CHISELS, COLD CHISELS, PUNCHES, DIES, Etc.

WRITE FOR BOOK OF TOOL STEELS AND PRICE LIST.

McINNES STEEL CO., Ltd., CORRY, PA.

Penna. Steel Co. (High Speed Tool, etc.), Girard bldg., Phila., Pa.
 Almond Mfg. Co., Steel Dept. (Saw Plate & Sheet), 16th & Western av., Chicago, Ill.
 Vulcan Crucible Steel Co. (High Grade Tool & Rolled & Forged Products), Aliquippa, Pa.

*Steel Doors

GENERAL FIREPROOFING CO.,
 Youngstown, O. (See adv. index & branch offices, end of book)

Steel (Electrical)

(See Iron & Steel Sheet, Electrical)

Steel Factory Equipment

(See also Specific Article Wanted)

Bernstein Mfg. Co. (Lockers, Material Closets, Shelving, etc.), 3d & Allegheny av., Phila., Pa.
 Lyon Metallic Mfg. Co., Aurora, Ill.
 Manufacturing Equipment & Engineering Co. (Sanitary Wash Bowls, Lockers, Soda Kettles, Work Benches, etc.), 209 Washington, Boston, Mass.
 Terrell's Equipment Co. (Bins, Shelving, Trucks, Lockers, Barrels, Tote Boxes, etc.), Grand Rapids, Mich.
VAN DORN IRON WORKS CO., 2685 N 79th, Cleveland, O. (See adv. index, end of book)

Steel (File)

Vulcan Crucible Steel Co., Aliquippa, Pa.

*Steel Filing Equipment

(See also Filing Cabinets & Devices)

GENERAL FIREPROOFING CO.,
 Youngstown, O., & 10 E 33d, New York.
 (See adv. index & branch offices, end of book)

Steel Fire Box Plate

AMERICAN STEEL & WIRE CO.,
 The Rookery, Chicago, Ill. (See adv. index & branch offices, end of book)
 Carbon Steel Co. (Open Hearth), Pittsburg, Pa., & 20 Cortlandt, New York
 Carnegie Steel Co., Pittsburg, Pa.
 Central Iron & Steel Co., Harrisburg, Pa.
 Colonial Steel Co., Pittsburg, Pa.
 Crucible Steel Co. of America, Chicago, Ill.
 Illinois Steel Co., 115 Adams, Chicago, Ill.
 Lucknow Iron & Steel Co., Harrisburg, Pa.
 Lukens Iron & Steel Co. (Open Hearth), Coatesville, Pa.
 Otis Steel Co. (Open Hearth), Cleveland, O.
 Republic Iron & Steel Co., Frick bldg Annex, Pittsburg, Pa.
 Taylor N. & G. Co., Mariner & Merchants' bldg, Phila., Pa.

Steel Floor Plate

(See Plates, Floor, Iron & Steel)

Steel Forms for Hollow Walls

Monolithic Hollow Wall Co. ("Han's" Adjustable, Collapsible for Monolithic Hollow Walls), Monolithic bldg, New York

*Steel Hardening

McCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO.,
 Worcester, Mass. (See adv. index, end of book)

Steel (High Carbon)

Bethlehem Steel Co. (Tool, etc.), South Bethlehem, Pa.
 Carbon Steel Co., Pittsburg, Pa.
 Carnegie Steel Co., Pittsburg, Pa.

Colonial Steel Co., Pittsburg, Pa.
 Crucible Steel Co. of America, Pittsburg, Pa.
 Eckels-Nye Steel Co., Syracuse, N. Y.
 Elyria Iron & Steel Co., Elyria, O.
 Halcomb Steel Co., Syracuse, N. Y.
 Indiana Rolling Mill Co. (Sheets), New Castle, Ind.

Interstate Iron & Steel Co., 1st Nat'l Bank bldg, Chicago, Ill.
 Vulcan Crucible Steel Co., Aliquippa, Pa.

Steel (High Speed)

(Firms marked with a (*) star are either Jobbers or Importers; all others are Manufacturers)

(See also Steel Importers)

Atlas Steel Co. ("Loco," Crucible), Dunkirk, N. Y.
 Baldwin Steel Co. (Crucible), 133 Reade, New York
 Bethlehem Steel Co. ("Bethlehem," Special Tool), South Bethlehem, Pa.
 *Boker, Herman & Co. ("Novo" Imported), 101 Duane, New York
 *Bourne-Fuller Co. ("Scott's I X L"), Cleveland, O.
 Carpenter Steel Co., Reading, Pa.
 Chrome Steel Works, Chrome, N. J.
 Colonial Steel Co., Pittsburg, Pa.
 Crucible Steel Co. of America ("Rex A"), Pittsburg, Pa.
 Cyclops Steel Works, Titusville, Pa.
 Firth-Sterling Steel Co. (Blue Chips), McKeesport, Pa.

***FRASSE, PETER A. & CO.** ("Poldi"), 130 Worth, New York. (See adv. index & branch offices, end of book)
 Halcomb Steel Co. (Crucible), Syracuse, N. Y.
 *Heller Bros. Co. ("Heller's," Alloy High-Speed Tool Steel), Newark, N. J.
 *Hobson-Houghton & Co. (Ltd.) ("Albion"), 1 Front, New York
 *Houghton & Richards (Jobbers), Boston, Mass.
 Illingsworth, Jno. Steel Co., Tacony, Phila., Pa.

Jessop, Wm. & Sons (Ltd.) ("Jessop's" Air Hardening), 91 John, New York. Works, Sheffield, England
 Johnson, Isaac G. & Co., Spuyten Duyvil, New York, N. Y.
 *Jones, B. M. & Co. ("Mushet"), 141 Milk, Boston, Mass.
 *Kent, Edwin & Co. ("Allen," Air Hardening), 282 Pearl, New York & Chicago, Ill.
McINNES STEEL CO. (Ltd.) ("McInnes" Extra Air Hardening), Corry, Pa. (See adv. index, end of book)
 Midvale Steel Co., Nicetown, Phila., Pa.

*Nash, Geo. & Co. ("Capitol"), 217 Pearl, New York
 *Nicholls, Wm. S. (For All Kinds of Cutting Tools), 253 B'way, New York
 Pennsylvania Steel Co. (Crucible Tool), Girard bldg, Phila., Pa.
 *Phillips, F. R. & Sons Co. ("Velos"), Penna. bldg, Phila., Pa.
 *Royal Metal Steel Co. ("Excelsior"), 17 Bridge, New York
 *Stauffer, Esbleman & Co. (Ltd.) ("Arrow," Swedish Electro), New Orleans, La.
 Vulcan Crucible Steel Co., Aliquippa, Pa.
 *Ward, E. T. Sons (Jobbers), Boston, Mass.
 *Wardlow, S. & S. ("Wardlow"), 278 Pearl, New York
 *Wheelock, Lovejoy & Co. (Selling Agents), 23 Cliff, New York, & Boston, Mass.

Steel (Hoop)

(See Iron & Steel Band & Hoop)

Steel (Hot Rolled Strip)

American Tube & Stamping Co. (Hoop & Bar), Bridgeport, Conn.
 Carpenter Steel Co. (Crucible Steels & Wires), Reading, Pa.
 Superior Steel Co. (For Stamping & Drawing, etc.), Pittsburg, Pa. Works Carnegie, Pa.

West Leechburg Steel Co. (For Blanking, Stamping & Drawing), Pittsburg, Pa.
 Works, Leechburg, Pa.
WORCESTER PRESSED STEEL CO.,
 Worcester, Mass. (See adv. index, end of book)

Steel Importers

Boker, Hermann & Co. (The "Jonas & Culver" Tool Steel, Drill Rods, Needle Wire, Hot & Cold Rolled Sheet Steel, Steel for Watch, Clock and Other Springs, Steel & Crucible Wire Rods, etc.), 101 Duane, New York
 Brown-Wales Co. (Norway & Refined Iron, Steel Bars, Angles, Tees, Plates, Structures, Material Steel Balls & Mechanical Tubing), 83 Purchase, Boston, Mass.

Coe-Fartout Co., Newark, N. J.
 Dana & Co., 32 B'way, New York
FRASSE, PETER A. & CO. ("Poldi" High Speed, Also Alloy, Carbon & Nickel Steels), 130 Worth, New York. (See adv. index & branch offices, end of book)
 Hammacher, Delius & Co. ("Gysinge," Electro High Grade Tool Steel), 429 Greenwich, New York
 Hobson-Houghton & Co. (Tool Steel, Needle Wire, Bright Drill Rods, "Soho" Self-hardening Steel, etc.), 1 Front, New York
 Houghton & Richards ("Stryan" Tool Steel & "Low Moor" & "Farnley" Iron), 148 Oliver, Boston, Mass.

Jessop, Wm. & Sons (Ltd.) (Bars, Sheets & Plates, Jessop's Best Carbon Tool Steel & Jessop's "Ark" High Speed Air Hardening Steel), 91 John, New York. Works, Sheffield, England
 Jones, B. M. & Co. ("Mushet" High Speed Steel; Special Steel; Extra Best Titanic Steel for Chisels, Taps, Dies, Punches & High Speed Drills), 141 Milk, Boston, Mass.
 Kent, E. R. & Co. ("Edgar Allen" Tool Steel, etc.), 282 Pearl, New York, & Chicago, Ill.

LEAVITT, C. W. & CO. (Iron & Steel Bars & Shapes), 30 Church, New York. (See adv. index, end of book)
 Milne, A. & Co. (Norway Iron & Steel, Blooms, Billets, Bars, Wire, Rivet & Nail Rods), 30 Church, New York, & Boston, Mass.
 Nash, Geo. & Co. ("Capital" High Speed Self-Hardening & Tool Steel), 217 Pearl, New York

Newkirk, Jno. B. & Co. (Structural Shapes, Bars, Sheets, etc.), 1502 Market, Philadelphia, Pa.
 Potts, Horace T. & Co. (Bars, Angles, Tees, Slabs, Beams, Channels, Billets, Blooms, Sheet Bars, etc.), 316 N 3d, Phila., Pa.
 Prosser, Thos. & Son (American Office of Fred'k Krupp), 15 Gold, New York
 Relsinger, Hugo ("Victoria" Tool Steel), 11 B'way, New York
 Stauffer, Esbleman & Co. (Ltd.) ("Arrow" Brand, High Speed, "Crown," Solid Swedish), New Orleans, La.
 Wallace, Wm. H. Co., 66 B'way, New York
 Wardlow, S. & C. (Tool Steel, Cast & Double Sheet Steel, Cutlery Steel, Steel for Watches & Other Springs, etc.), 278 Pearl, New York
 Wheelock, Lovejoy & Co., 23 Cliff, New York

Steel Inspection

Hunt, Rob't W. & Co., The Rookery, Chicago, Ill., & 90 West, New York

Steel (Locomotive Boiler)

Carbon Steel Co., Pittsburg, Pa.
 Carnegie Steel Co., Pittsburg, Pa.
 Central Iron & Steel Co. (Open-Hearth Steel), Harrisburg, Pa.
 Crucible Steel Co. of America, Pittsburg, Pa.
 Illinois Steel Co., 115 Adams, Chicago, Ill.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Lukens Iron & Steel Co., Coatesville, Pa.
 Worth Bros. Co., Coatesville, Pa.

McInnes "Extra" Air Hardening High Speed Steel

IS THE STEEL FOR TURNING LOCOMOTIVE TIRES OR ANY KIND OF MATERIAL.

WILL FINISH AS WELL AS ROUGH WRITE US.

McINNES STEEL CO., Ltd., CORRY, PA.

Steel (Magnet)

Atlas Steel Co. ("Atlas" Crucible), Dunkirk, N. Y.

Steel (Manganese)

Taylor Iron & Steel Co., High Bridge, N. J.
United Steel Co. (High-Manganese), Canton, O.

Steel (Marbleized)

Brooklyn Metal Ceiling Co., 283-287 Greene av, Brooklyn, N. Y.

Steel (Metal Wheel)

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

***Steel Mine & Mill Buildings (Constructors of)**

SCAIFE, WM. B. & SONS CO., 221 1st av., Pittsburgh, Pa. (See adv. index, end of book)

Steel (Nickel)

Bethlehem Steel Co., South Bethlehem, Pa.
Baker, Herman & Co. (Importers), 101 Duane, New York
Carbon Steel Co., Pittsburgh, Pa.
Crucible Steel Company of America (Re-rolled, etc.), Pittsburgh, Pa.
Damascus Tool Steel Co. (For Tools, Dies, etc.), Pittsburgh, Pa.
FRASSE, PETER A. & CO., 130 Worth, New York. (See adv. index & branch offices, end of book)
Midvale Steel Co., Nicetown, Phila., Pa.
Taylor Iron & Steel Co., High Bridge, N. J.

***Steel (Oil Hardening)**

McINNES STEEL CO., Ltd. ("Cello"), Corry, Pa. (See adv. index, end of book)

Steel Pipe

(See Pipe & Tube Mills)

Steel Plate

(See Iron & Steel Boiler & Tank Plate; also Steel Fire Box Plate)

Steel Plate Work

Atlantic Works, Boston, Mass.
Aurora Boiler Works (Inc.), Aurora, Ill.
CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)
Casey-Hedges Co., Chattanooga, Tenn.
Coatesville Boiler Works, Coatesville, Pa.
Columblana Boiler Co., Columblana, O.
Connellsville Iron Works, New Haven, Pa.
Connelly, D. Boiler Co., Cleveland, O.
CONNERY & CO., 9th & Master, Phila., Pa. (See adv. index, end of book)

Cruse-Kemper Co., Ambler, Pa.
Duff Patents Co., Frick Bldg., Pittsburgh, Pa.
Gem City Boiler Co., Dayton, O.

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av., Phila., Pa. (See adv. index & branch offices, end of book)

Hammond Iron Works, Warren, Pa. (of book)

Kennicott Water Softening Co., Railway Exchange Bldg., Chicago, Ill.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Lacy Mfg. Co. (Of Any Description), Los Angeles, Cal.

Lake Erie Boiler Works, Buffalo, N. Y.

Lappan, Jas. Mfg. Co., Pittsburgh, Pa.

Lyon Boiler & Iron Works, De Pere, Wis.

McNeill, Jas. & Bro. Co., Pittsburgh, Pa.

MACKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)

McMechan Boiler & Const. Co., Lowellville, O.

MICHELMANN STEEL CONSTRUCTION CO., Quincy, Ill. (See adv. index, end of book)

Munroe, R. & Sons Corp'n, Pittsburgh, Pa.

Novelty Steam Boiler Works (Tripplett & Jennings, Props.), 917 S Howard, Baltimore, Md.

Odium-Taylor Boiler Co., Memphis, Tenn.

Ohio Boiler Co., Girard, O.

Oswego Boiler & Engine Co., Oswego, N. Y.

Pennsylvania Engineering Works, New Castle, Pa.

PETROLEUM IRON WORKS CO., Sharon, Pa. (See adv. index & branch offices, end of book)

Petty, J. K. & Co. (Lebanon Boiler Works), Stephen Girard Bldg., Phila., Pa. Works, Lebanon, Pa.

Pollock, Wm. B. Co., Youngstown, O.

Porter Foundry & Machine Co., Pittsburgh, Pa.

Ritter-Conley Mfg. Co., Pittsburgh, Pa.

Thummell-Dawley Mfg. Co., St. Louis, Mo.

SCAIFE, WM. B. & SONS CO., Pittsburgh, Pa. (See adv. index, end of book)

SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Springfield Boiler & Mfg. Co., Springfield, Ill.

Standard Boiler & Plate Iron Co., Niles, O.

Struthers-Wells Co., Warren, Pa.

Union Iron Works, Hoboken, N. J.

Variety Iron & Steel Works Co., Cleveland, O.

Warren City Tank & Boiler Co., Warren, O.

White, Robt. Engineering Works, ft. of Columbia, Brooklyn, N. Y.

Inland Steel Co. (Light Open Hearth), 1st Nat'l Bank bldg., Chicago, Ill.

Jones & Laughlin Steel Co., Pittsburgh, Pa.

La Belle Iron Works (No. 30 & Heavier), Steubenville, O.

Lukens Iron & Steel Co. (Open Hearth), Coatesville, Pa.

Otis Steel Co. (Open-Hearth Steel Plates), Cleveland, O.

Portsmouth Steel Co. (Light & Heavy Plates & Heavy Sheets), Wheeling, W. Va.

Republic Iron & Steel Co. (Open Hearth, Soft & Hard Merchants), Pittsburgh, Pa.

Sligo Iron & Steel Co. (Also Iron 8-Gauge, & Heavier), Connellsville, Pa.

Wood, Alan, Iron & Steel Co. (Iron & Steel Flue & Plate), 519 Arch, Phila., Pa.

Worth Bros. Co. (Iron & Steel), Coatesville, Pa.

Steel (Plow)

(See Steel, Agricultural)

Steel (Powder Keg)

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.

Steel (Pressed)

(See also Pressed Steel Specialties)

Davis Solid Truss Brake Beam Co., Wilmington, Del.

Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.

Nortman-Duffke Foundry Co. (Also Deep Stamping & Drawn Steel Specialties), Milwaukee, Wis.

Pressed Steel Car Co., Pittsburgh, Pa.

Standard Gauge Steel Co. (Cold Pressed Finished Flats, Squares, Rounds, Angles, Channels & Special Shapes), Beaver Falls, Pa.

Waynesburg Pressed Steel Co., Waynesburg, Pa.

WORCESTER PRESSED STEEL CO. (Bearings, Fittings & Specialties), Worcester, Mass. (See adv. index, end of book)

***Steel Products (Cold Pressed)**

(See also Steel, Pressed; also Pressed Steel Specialties)

MEIM, JNO. R. MILLS (Inc.), Buffalo, N. Y. (See adv. index, end of book)

Steel Rails

(See Rail Mills, Iron & Steel)

Steel (Range Boiler)

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.

KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)

Wood, Alan Iron & Steel Co., 519 Arch, Phila., Pa.

Steel Ribs & Lagging

(See Centering, Steel)

COLD PRESSED STEEL PRODUCTS

Boxes, Cylinders, Tubes, Irregular Shapes and Contours.

Drawn from Sheet Steel, Copper, Brass.

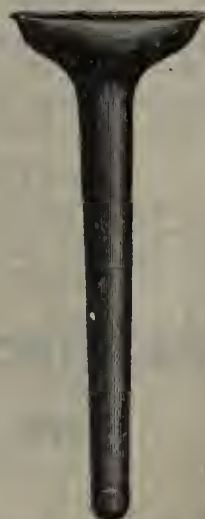
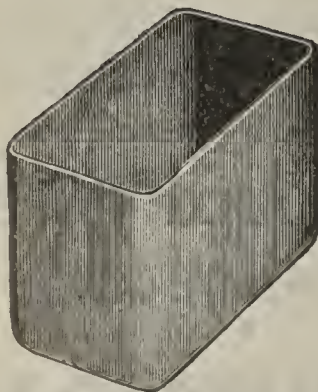
SEAMLESS

In a wide range of diameters and lengths. Composite forms requiring two or more different thicknesses of stock, drawn and welded or brazed.

Estimates cheerfully submitted on original designs. Plans gladly furnished for adapting pressed steel shapes to take the place of castings or forgings where strength, weight and appearance are particularly desired.

John R. Keim Mills, Inc.

Buffalo, N. Y.



STEEL PLATE CONSTRUCTION

TANKS
CHIMNEYS
PENSTOCKS

ERECTED ANYWHERE
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RIVETED PIPE
STAND PIPES
CYLINDERS

THE CANTON BOILER & ENGINEERING CO.

Canton, Ohio, U. S. A.

Steel Roofing

(See Roofing & Siding, Iron & Steel)

Steel Screw Stock**AMERICAN STEEL & WIRE CO.**
(Free Cutting), Commercial Nat'l Bank
bldg, Chicago, Ill. (See adv. index &
branch offices, end of book)Columbia Steel & Shafting Co., Pittsburg, Pa.
Jones & Laughlin Steel Co. (Cold Rolled),
Pittsburg, Pa.Pittsburg Shafting Co. of Detroit (Cold Roll-
ed), Detroit, Mich.**UNION DRAWN STEEL CO. (Cold
Drawn)**, Beaver Falls, Pa., & 460 Washlug-
ton, New York**Steel (Self-Hardening)**(Firms marked with a (*) Star are either
Jobbers or Importers)Atlas Steel Co. ("Atlas," Crucible Temper-
ing), Dunkirk, N. Y.Baldwin Steel Co. (Crucible), 133 Reade, New
YorkBethlehem Steel Co. (Open Hearth), South
Bethlehem, Pa.

Colonial Steel Co. ("Red Star"), Pittsburg, Pa.

Columbian Tool Steel Co., Chicago Heights, Ill.

Crucible Steel Co. of America, Pittsburg, Pa.

*Denman & Davis, 85 Lafayette, New York

Firth-Sterling Steel Co., McKeesport, Pa.

*FRASSE, PETER & CO. ("Poldi"),
130 Worth, New York. (See adv. index
& branch offices, end of book)*Hobson-Houghton & Co. (Ltd.), ("Soho") 1
Front, New York. Works Sheffield, Eng.

*Houghton & Richards, Boston, Mass.

*Illingsworth, Jno. Steel Co., 25 Cliff, New York

*Jones, B. M. & Co., 141 Milk, Boston, Mass.

**McINNES STEEL CO., Ltd. (Air Hard-
ening, etc.)**, Corry, Pa. (See adv. index, end
of book)

Vulcan Crucible Steel Co., Aliquippa, Pa.

Steel Sheet

(See Iron & Steel Sheet, Black & Galvanized)

Steel Sheet BarsAllegheny Steel Co. (Open Hearth), Pittsburg,
Pa.

American Steel Co. (Jobbers), Pittsburg, Pa.

Andrews Steel Co. (Open Hearth), Newport,
Ky.

Ashland Steel Co. (Bessemer), Ashland, Ky.

Carnegie Steel Co. (Bessemer & Open Hearth),
Pittsburg, Pa.Colorado Fuel & Iron Co. (Open Hearth), Den-
ver, Col.Follansbee Bros. Co. (Basic Open Hearth),
Pittsburg, Pa.Harrisburg Pipe & Pipe Bending Co. (Open
Hearth), Harrisburg, Pa.Job Iron & Steel Co. (Iron & Steel), Ashland,
Ky.La Belle Iron Works (Open Hearth), Steuben-
ville, O.Lackawanna Steel Co. (Open Hearth, Bes-
semer), Buffalo, N. Y.Republic Iron & Steel Co. (Open Hearth),
Pittsburg, Pa.**SHARON STEEL HOOP CO. (Open
Hearth)**, Sharon, Pa. (See adv. index &
branch offices, end of book)Taylor, N. & G. Co. (Light, Open Hearth),
Mariner & Merchants' bldg, Phila., Pa.

United Steel Co. (Open Hearth), Canton, O.

Youngstown Steel & Tube Co. (Soft Bessemer;
also Iron), Youngstown, O.**Steel Sheet Plates**

Massillon Rolling Mill Co., Massillon, O.

Steel Sheets (Aluminum Coated)Wildier Metal Coating & Mfg. Co. (Also Iron),
Connellsville, Pa.**Steel Sheets (Blue Annealed)**La Belle Iron Works (Open-Hearth Steel
Plates 3-16 to 18 Gauge), Steubenville, O.**MERCHANT & EVANS CO. (Inc.)**, 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)

National Sheet Steel Co., Mansfield, O.

Parkersburg Iron & Steel Co., Parkersburg,
W. Va.Portsmouth Steel Co. (Open Hearth), Wheeling,
W. Va. Mills, Portsmouth, O.
Sligo Iron & Steel Co. (Open Hearth), Con-
nellsville, Pa.
Taylor, N. & G. Co. (Open Hearth), Mariner &
Merchants bldg, Phila., Pa.**Steel Sheets (Buggy Bow)**American Sheet & Tin Plate Co., Frick bldg.
Pittsburg, Pa.

Empire Iron & Steel Co., Niles, O.

Wood, Alan Co., 519 Arch, Phila., Pa.

**Steel Sheets for Shovels, Saws,
Hoes, Springs, Etc.**American Sheet & Tin Plate Co., Frick bldg.
Pittsburg, Pa.Rowland, Wm. & Harvey, Frankford, Phila.,
Pa.

Wheeling Steel & Iron Co., Wheeling, W. Va.

Steel Sheets for Stamped Ware

(See Iron & Steel Sheet, Black & Galvanized)

Steel Sheets (Galvanized)

(See Iron & Steel Sheet, Black & Galvanized)

**Steel Sheets (Planished & Pol-
ished)**American Sheet & Tin Plate Co., Frick bldg,
Pittsburg, Pa.

Columbia Steel Co., Elyria, O.

National Sheet Steel Co., Mansfield, O.

Parkersburg Iron & Steel Co., Parkersburg,
W. Va.United Sheet & Tin Plate Co. (Open Hearth),
Polished, Marietta, O.**MERCHANT & EVANS CO. (Inc.)**, 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)Ward-Dickey Steel Co. (Hammered Planished
Open Hearth, 18 to 28 Gauge), Indiana
Harbor, Ind.Wood, Alan, Iron & Steel Co., 519 Arch, Phila.,
Pa.**Steel Shelving**Jefferis, Richard Co. ("Jefferis," Pressed
Steel), Camden, N. J.

Lyon Metallic Mfg. Co., Aurora, Ill.

Manufacturing, Equipment & Engineering Co.,
Boston, Mass.**Steel Shovel Plate**

Allegheny Steel Co., Pittsburg, Pa.

Colonial Steel Co. (Open Hearth & Crucible),
Pittsburg, Pa.

Empire Iron & Steel Co., Niles, O.

Harrisburg Pipe & Pipe Bending Co., Harris-
burg, Pa.Hartman, Hays & Reis (Iron & Steel), Belle-
ville, Ill.Indiana Rolling Mill Co. (High Carbon Sheet
Steel for Shovel Plate, Grain Drill & Har-
row Discs, etc.), New Castle, Ind.

La Belle Iron Works, Steubenville, O.

Lessig, Geo. B. Co. (Inc.) (Iron Only), Potts-
town, Pa.

Wyoming Shovel Works, Wyoming, Pa.

Steel Silver Plates, Etc.Duplex Metals Co. ("Monnot" Process), 149
B'way, New York**Steel Skelp**

(See Iron & Steel Skelp)

Steel Slabs

(See Billets, Blooms & Slabs, Steel)

Steel (Soft)Columbia Steel & Shafting Co. (Hot & Cold
Rolled Strip for Stamping, Drawing, etc.),
Pittsburg, Pa.Crucible Steel Co. of America ("Diamond,"
Soft Center Flow, etc.), Pittsburg, Pa.Elliott-Blair Steel Co. (Bright Dead for Sew-
ing Machine, Typewriter & Bicycle Parts,
etc.), New Castle, Pa.Interstate Iron & Steel Co. (Flats, etc.), 1st
Nat'l Bank bldg, Chicago, Ill.Lockhart Iron & Steel Co. (In Bars, Hexagons
& Grooved, etc.), Pittsburg, Pa.New Haven Iron & Steel Co. (Open Hearth),
New Haven, Conn.Parkersburg Iron & Steel Co. ("National"
Bessemer Sheets Re-Annealed), Parkers-
burg, W. Va.Republic Iron & Steel Co. (Open Hearth),
Pittsburg, Pa.Sweet's Steel Co. (Open Hearth), Williams-
Pioneer Steel Co., Rockford, Ill. port, Pa.Union Rolling Mill Co. (Bars, etc.), Cleveland,
OhioWood, J. & Bros. Co. (Sheets), Conshohocken,
Pa.**Steel (Spring)**American Tube & Stamping Co., Bridgeport,
Conn.**AMERICAN STEEL & WIRE CO.**
Commercial Nat'l Bank bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)Bethlehem Steel Co. (Open Hearth), South
Bethlehem, Pa.

Braeburn Steel Co., Braeburn, Pa.

Cambria Steel Co., Arcade bldg, Phila., Pa.

Carnegie Steel Co., Pittsburg, Pa.

Colonial Steel Co. (Open Hearth & Crucible),
Pittsburg, Pa.

Columbia Steel Co. (Cold Rolled), Elyria, O.

Crucible Steel Co. of America (Crucible), Pitts-
burg, Pa.**FRASSE, PETER A. & CO., 130**
Worth, New York. (See adv. index &
branch offices, end of book)Harrow Spring Co. (Milled Bars & Rods),
Kalamazoo, Mich.

Midvale Steel Co., Nicetown, Phila., Pa.

Norwalk Steel & Iron Co. (Crucible & Open
Hearth), Norfolk, O.

Penn. Steel Co., Girard bldg, Phila., Pa.

Railway Steel Spring Co. (Open Hearth), 30
Church, New YorkSweet's Steel Co. (Open Hearth), Williams-
port, Pa.

Vulcan Crucible Steel Co., Aliquippa, Pa.

Steel Stacks

(See Smoke Stacks, Steel; also Chimneys, Steel)

Steel Structural DealersAmerican Forge & Iron Co., 140 W 42d, New
YorkAnderson Bridge & Scraper Co., Anderson,
Ind.

Austin & Doten, 102 North, Boston, Mass.

Bacon & Co., 107 Oliver, Boston, Mass.

Baily, R. M. & Co., Arcade bldg, Phila., Pa.

Balfour, Guthrie & Co., San Francisco, Cal.

Bartholomew, H., Phoenixville, Pa.

Bassett-Presley Co., Western Reserve bldg,
Cleveland, O.Belmont Iron Works, 22d & Wash'n av, Phila.,
Pa.Bierce, Wm. W. (Ltd.), Hennen bldg, New
Orleans, La.Blodgett & Clapp Co., 49 Market, Hartford,
Conn.

Bourne-Fuller Co., Hickok bldg, Cleveland, O.

BROOKS, T. H. & CO., Cleveland, O.
(See adv. index, end of book)**CANTON FOUNDRY & MACHINE CO.**
Canton, O. (See adv. index, end of book)Cincinnati Iron Store Co., Front & Freeman av,
Cincinnati, O.

Coe-Faltoute Co., Newark, N. J.

Corlett, J. F. & Co., Rockefeller bldg, Cleve-
land, O.Davenport Foundry & Machine Co., Davenport,
IowaDavies, Jno. J. & Co., 20th & Clearfield,
Phila., Pa.

De Cou, Richard, 12th & Noble, Phila., Pa.

Eichley, John, Jr., Co., 21st & Wharton, Pitts-
burg, Pa.**FOREST CITY STEEL & IRON CO.,**
Cleveland, O. (See adv. index, end of book)

Froment & Co., West & Bank, New York

Glavin & Eyre, San Francisco, Cal.

Globe Rolling Mill Co., Cincinnati, O.

HALSTED, JOS. CO., 388 W Randolph,
Chicago, Ill. (See adv. index, end of book)

Harrington, Robinson & Co., Boston, Mass.

Hawkins, F. B. Co., Long Island City, N. Y.

Hiltner's, Henry A. Sons Co., Huntington &
Aramingo av, Phila., Pa.

Hoffman, R. C. & Co., Baltimore, Md.

Hodius, W. D. & Co. (Iron, Steel, Locomotive,
etc.), Seattle, Wash.

Houston, C. B. & Co., Girard bldg, Phila., Pa.

Houdlette, Fred A. & Son, Boston, Mass.

Jackson, Geo. W. (Inc.), 169 W Jackson
blvd., Chicago, Ill., & 46 Wall, New York

Judson Mfg. Co., San Francisco, Cal.
 Klemp, Wm. F. & Co., 138 Washington, Chicago, Ill.
KRATZER, W. N. & CO., 3218 Smallman, Pittsburg, Pa. (See adv. index, end of book)
 Lindsay, James G. & Co., Arcade bldg., Phila.
 Lindsay, W. W. & Co., Harrison bldg., Philadelphia, Pa.
MACINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
 Mesker, Geo. L. Co., Evansville, Ind.
MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Moffat, F. D. & Co., 81 Fulton, New York
 Moore, Edgar M. & Co., Farmers' Bank bldg., Morris, Wheeler & Co., 1608 Market, Phila., Pa.
 Newkirk, John B. & Co., 1502 Market, Phila., Pa.
 Nicholas Wire Co., Kansas City, Mo.
 Noble Electric Steel Co., San Francisco, Cal.
 Ogden & Wallace, 577 Greenwich, New York
 Prince Iron Works, 555 W 33rd, New York
 Pilling & Crane, Real Estate Trust bldg., Phila., Pa., & Farmers' Bank bldg., Pittsburg, Pa.
RIESECK, P. (All Kinds, from Stock), Allegheny & Rebecca, Pittsburg, Pa. (See adv. index, end of book)
 Ring, Chas. E. & Co., 38 S 8th, Brooklyn, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 Ryerson, Jos. T. & Son (Steel), 16th & Rockwell, Chicago, Ill.
SCHREIBER, L. & SONS CO., 8th & Eggleston av., Cincinnati, O. (See adv. index & branch offices, end of book)
 Schwartz Foundry Co., Ltd., 451 Howard av., New Orleans, La.
 Scully Steel & Iron Co., 138 Fulton, Chicago, Ill.
 Southern Foundry Co. (Beams Cut & Punched), Owensboro, Ky.
 Spencer, Geo. G., 2 Sherman, Chicago, Ill.
 Speddy, T. H., 23 Davis, San Francisco, Cal.
 Thomson, W. H. & Co., Land Title bldg., Phila., Pa.
UNION FOUNDRY WORKS, First National Bank bldg., Chicago, Ill. (See adv. index, end of book)
 Wehr, H. & Co., Pratt & President, Baltimore, Md.
WORDEN-ALLEN CO., P. O. Box 528, Milwaukee, Wis. (See adv. index & branch offices, end of book)

Steel Structural Mills

(*Indicates Mills that Mfg Structural Work:
 †Indicates Mills that Roll I Beams)

*†American Bridge Co. (Open Hearth Steel Angles, Beams, Deck Beams, Channels, Tees, Zees, etc.), Pittsburg, Pa.
 American Tube & Stamping Co. (Small Steel Angles, Channels, Tees, etc.), Bridgeport, Conn.
 †Bethlehem Steel Co. (Bessemer & Open Hearth Angles, Beams, Channels, Tees & Special Wide Flanged Rolled Beams & Girders), South Bethlehem, Pa.
 Boonton Iron & Steel Co. (Iron Angles Only), Boonton, N. J.
 Buffalo Steel Co. (Bessemer Steel Angles, Channels, Tees, etc.), Tonawanda, N. Y.
 Calumet Steel Co. (Bessemer Steel Angles, Channels, Tees, etc.), Commercial Bank bldg., Chicago, Ill. Works, Washington Heights, Ill.
 *†Cambria Steel Co. (Bessemer & Open Hearth Steel Angles, Beams, Girders, Channels, Tees, etc.), Arcade bldg., Phila., Pa.
 *†Carnegie Steel Co. (Bessemer & Open Hearth Steel Angles, Beams, Girders, Channels, Tees, Zees, etc.), Pittsburg, Pa.
 Central Iron & Steel Co. (Universal Bridge & Structural Plates), Harrisburg, Pa.
 Chrome Steel Works (Chrome Steel Angles 3, 4, 6 & 8 inch), Chrome, N. J.
 Colorado Fuel & Iron Co. (Iron & Steel Structural & Other Shapes), Denver, Colo.
 Damascus Tool Steel Co. (Steel Angles, Ell Bars, etc.), Pittsburg, Pa.
 Davis Bros. (Small Even Leg Iron Angles, 12 to inch), N. 29th & Bristol, Phila., Pa.
 Dempsey, M. J. Standard Rolling Mill (Iron Angles Only), 40th & 11th av., New York
 *†Eastern Steel Co. (Open Hearth Steel Angles, Beams, Channels, Tees, etc.), Pottsville, Pa.

Glasgow Iron Co. (Iron & Steel Bridge Plates), Pottstown, Pa.
 Hollidaysburg Iron & Nail Co. (Channel Iron Only), Hollidaysburg, Pa.
 Hirsch Rolling Mill Co. (Iron & Steel Angles & Shapes), St. Louis, Mo.
 *Indiana Steel Co. (Open Hearth Steel Angles, Beams, Channels, Tees, etc.), Commercial Bank bldg., Chicago, Ill.
 *†Illinois Steel Co. (Bessemer & Open Hearth Steel Angles, Beams, Channels, Tees, etc.), Commercial Bank bldg., Chicago, Ill.
 *Indiana Steel Co. (Open Hearth), Commercial Bank bldg., Chicago, Ill. Mills, Gary, Ind.
 *Inland Steel Co. (Open Hearth Steel Angles, Beams, Channels, Tees, etc.), 1st Nat. Bank bldg., Chicago, Ill.
 Interstate Iron & Steel Co. (High Carbon Steel & Iron & Soft Steel Angles, Channels, Tees, etc.), 1st Nat'l Bank bldg., Chicago, Ill. Works, Cambridge, O.
 Joliet Iron Products Co. (Angle Iron & Shapes), Joliet, Ill.
 *†Jones & Laughlin Steel Co. (Bessemer & Open Hearth Angles, Beams, Channels, Tees, etc.), Pittsburg, Pa.
 Judson Mfg. Co. (Structural & Agricultural Shapes), San Francisco, Cal.
 Knoxville Iron Co. (Light Sections of Angle & Channel Iron), Knoxville, Tenn.
 *†Lackawanna Steel Co. (Bessemer & Open Hearth Angles, Beams, Channels, Tees, etc.), Buffalo, N. Y.
 Licking Rolling Mill Co. (Iron Angles & Tees & Charcoal Angles & Tee Iron), Covington, Ky.
 Lockhart Iron & Steel Co. (Bridge Iron & Iron & Steel Angles), Pittsburg, Pa.
 Logan Iron & Steel Co. (Bridge Iron & Angles), Burnham, Pa.
 Lucknow Iron & Steel Co. (Iron & Steel Bridge Plates & Angle Iron), Harrisburg, Pa.
 Lukens Iron & Steel Co. (Open Hearth Steel Shlp & Bridge Plate), Coatesville, Pa.
 New Haven Iron & Steel Co. (Small Channels 3/4 to 7/8 inches and one inch wide), New Haven, Conn.
 Ohio Falls Iron Co. (Iron Square Root Angles for Safe Mfrs.), New Albany, Ind.
 Old Dominion Iron & Nail Works (Bridge Iron), Richmond, Va.
 Penna. Brake Beam Co. (Deck & I Beams, Brake Beams, etc.), Danville, Pa.
 *†Penna. Steel Co. (Bessemer & Open Hearth Steel Angles, Channels, Tees, etc.), Girard bldg., Phila., Pa. Works, Steelton, Pa.
 Penn Iron Co. (Iron for Bridge Work), Lancaster, Pa.
 *†Phoenix Iron Co. (Open Hearth Steel Angles, Beams, Channels, Tees, Bridge Plates, etc.), 410 Walnut, Phila., Pa. Works, Phoenixville, Pa.
 Reading Iron Co. (Angle Iron & Iron & Steel Angle Bars), Reading, Pa.
 Republic Iron & Steel Co. (Light Iron Angles & Channels; also Open Hearth Steel Angles), Pittsburg, Pa.
 Slatington Iron Co. (Angle Iron Only), Slatington, Pa.
 †Southern Pacific Co. (Angle Iron, I Beams, etc.), Sacramento, Cal.
 Sweet's Steel Co. (Open Hearth Steel Angles & Channels), Williamsport, Pa.
 Tennessee Coal, Iron & R. R. Co. (Open Hearth Steel Angles, Channels, Tees, etc.), Birmingham, Ala.
 Tredegar Co. (Bridge Iron), Richmond, Va.
 Union Rolling Mill Co. (Bridge Iron), Cleveland, O.
 Worth Bros. Co. (Steel Plates for Structural & Tank Work), Coatesville, Pa.

Steel Structural Shapes (Mfrs.)

(See Steel Structural Mills)

Steel Structural Work

(Star (*) Indicates Firms who also Build Steel Bridges)

ALABAMA.

BIRMINGHAM—*Southern Bridge Co.
 MOBILE—*Baldy Iron Works
 NEW DECATUR—North Alabama Eng'n'g Co.

CALIFORNIA.

FRESNO—Burnett, J. H. Iron Works
 LOS ANGELES—Mercereau, J. D.
 OAKLAND—*Burrell Construction Co.
 *Cotton Bros. & Co.

SAN FRANCISCO—*Atlantic Gulf & Pacific
 *American Bridge Co., Crocker bldg Co.
 *Bay City Iron Works, 1243 Harrison
 *Berkeley Steel Co., 628 Montgomery
 Brode & Clark Iron Works, 621 Howard
 California Artistic Metal & Wire Co., 539 Mission
 Central Iron Works
 *Clinton Bridge & Iron Works, Crocker Bldg.,
 Dyer Bros., 17th & Kansas 349 7th
 *Healy-Tibbitts Construction Co., 628 Market
 *Hyde-Harjes & Co., 13 Stewart
 Jackson, P. H. & Co., 228 1st
 Judson Mfg. Co., 819 Folsom
 *Merry-Elwell Co., 13 Stuart
 *Pacific Construction Co., 17 Spear
 Pacific Structural Iron Works
 *San Francisco Bridge Co., Monadnock Bldg.
 *SCHREIBER, L. & SONS CO. (See adv. index, end of book)
 *Thomson Bridge Co., 103 Main
 Western Iron Works, 123 Beale
 Woods & Huddart

COLORADO.

COLORADO SPRINGS—Hassell Iron W'ks Co.
DENVER—*American Bridge Co.
 Browne, Frank O., 1414 Glenarm
 Denver Engineering Works Co.
 Pioneer Iron & Wire Works, 1433 Market
 *SCHREIBER, L. & SONS CO. (See adv. index, end of book)
 *Vulcan Iron Works Co., 1715 Blake
 White Bros. Mfg. Co.
PUEBLO—*Pueblo Bridge Co.

CONNECTICUT.

BERLIN—*Berlin Construction Co.
BRIDGEPORT—Bridgeport Boiler Works Co.
 Pacific Iron Works (Inc.)
EAST BERLIN—*American Bridge Co.
NEW HAVEN—Wass, Jules
 *Yale Safe & Iron Co.
NEW LONDON—*Scott, T. A. Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Barber & Ross, 618 11th N W
 *Brown-Ketcham Iron Works, Colorado bldg
 Jorss, A. F., 315 13th, N W
 Schnelder, C. A. Sons, 212 12th, N W
 *SCHREIBER, L. & SONS CO. (See adv. index, end of book)

FLORIDA.

JACKSONVILLE—Richardson, H. H. & Co.

GEORGIA.

ATLANTA—*American Bridge Co.
 Atlanta Machine Works
 Atlanta Structural Steel Co.
 Gude & Walker
 *SCHREIBER, L. & SONS CO. (See adv. index, end of book)
 *Virginia Bridge & Iron Co.
 Wilkins, Grant
AUGUSTA—*Lombard Iron Works & Supply Co.
NEWNAN—*Cole, R. D. Mfg. Co.

Hendricks' Commercial Register

is not a Catalog of
 Advertisers alone,
 but a Complete
 Register of the
 manufacturers and
 jobbers in every line of
 trade that comes within
 the scope of the work.

ILLINOIS.

AURORA—*Love Bros. (Inc.).
CHICAGO—*American Bridge Co., Commercial Bank Bldg.

Bolter's, A. Sons, 84 La Salle
 Brandes, Carl, 1033 Otto
 Bryan, E. A. Co., First National Bank bldg
 *Chicago Bridge & Iron Works (Horace E. Horton, Prop.), Throop & W 105th
 Chicago Iron & Steel Works, 70 N Jefferson
CHICAGO SIDEWALK LIGHT CO., 103 Reaper Block. (See adv. index, end of book)

*Continental Bridge Co., Monadnock Bldg
 Dauchy Iron Works, 88 Illinois
 Dearborn Foundry Co., 1525 Dearborn
 Globe Iron Works, 31 Indiana

HALSTED, JOSEPH, CO., 388 W Randolph. (See adv. index, end of book)
 Hansell-Elcock Co., 251 23d pl
 Helnemann, Louis, 819 Melrose
 Holmes, Pyott & Co., 13 N Jefferson
 *Illinois Bridge Co., Monadnock bldg
 *Illinois Steel Co., 115 Adams
 *Jackson, Geo. W., 169 W. Jackson boul
 *Jennet Bridge & Iron Works, 3541 Shields av

*Joliet Bridge & Iron Co., 109 Randolph
 Kelly-Atkinson Construction Co., 188 Madison
 *Kenwood Bridge Co., 1st Nat'l Bank Bldg
 Larson, O., 300 W. Erie
 *McClintic-Marshall Construction Co., 1st Nat'l Bank bldg

*Milwaukee Bridge Co., 164 Dearborn
 *Morava Construction Co., 188 Madison
 *Phoenix Bridge Co., The Rookery
 *Scherzer Rolling Lift Bridge Co. (Rolling Lift Bridges), 1616 Monadnock bldg
 Roemheld Construction Co., Security Bldg.
***SCHREIBER, L. & SONS CO.** (See adv. index, end of book)

SMITH, F. P. WIRE & IRON Works, 100 Lake. (See adv. index, end of book)
 Standard Construction Co., 164 Dearborn
STEWART, JAS. & CO. (Mills & Railway Depots), Fisher bldg

*Strauss Bascul & Concrete Bridge Co., Fort Dearborn Bldg
***STROBEL STEEL CONSTRUCTION** Co., Monadnock bldg

UNION FOUNDRY WORKS, First National Bank bldg. (See adv. index, end of book)
 Variety Mfg. Co. (Light Work for Building), Sacramento & Carroll av
 Vlerling, McDowell & Co., 23d & Stewart av

*Wisconsin Bridge & Iron Co., Monadnock bldg

WORDEN - ALLEN CO., 948 Commercial National Bk. Bldg

DECATUR—*Decatur Bridge Co.
EAST ST. LOUIS—National Iron Works
JACKSONVILLE—*Illinois Steel Bridge Co.
JOLIET—*Joliet Bridge & Iron Co.
PEORIA—*Lucas, A. & Sons
PRINCETON—McManis & Son

QUINCY—*MICHELMANN STEEL CONSTRUCTION Co. (See adv. index, end of book)

SPRINGFIELD—*Springfield Bridge & Iron Co.

INDIANA.

ANDERSON—*Anderson Bridge & Scraper Co.
ATTICA—*Attica Bridge Co.
COLUMBUS—*Caldwell & Drake Iron Works
ELKHART—*Elkhart Bridge & Iron Co.
EVANSVILLE—Mesker, Geo. L. & Co.
FORT WAYNE—Kerr-Murray Mfg. Co. (Gas House, etc.)
FRANKFORT—*Ross, John A.
INDIANAPOLIS—*Brown-Ketcham Iron Works (Bridges, Buildings & Vluaducts), 2549 W Michigan

*Central States Bridge Co.
 *Indianapolis Bridge & Iron Works, 8 W Market

Noelke-Richards Iron Works, 180 E Palmer
 Parkhurst Mfg. Co., 218 Kentucky av
LAFAYETTE—*Lafayette Engineering Co.
 Wallace Machine & Foundry Co. (Also Castings)

MUNCIE—*Indiana Bridge Co.
NEW CASTLE—*Pan-American Bridge Co.
PARIS—Paris Bridge Co.

SOUTH BEND—South Bend Foundry Co.
TERRE HAUTE—*Parker, Thatcher
VINCENNES—*Vincennes Bridge Co.
WINAMAC—*Winamac Bridge Co.

IOWA.

CEDAR RAPIDS—Carmody, J. T.
CLINTON—*Clinton Bridge & Iron Works
COUNCIL BLUFFS—*Wise, G. C. & Co.

DAVENPORT—Davenport Foundry & Machine Co.

DES MOINES—*Des Moines Bridge & Iron Co.

*Des Moines Mfg. & Supply Co., 101 E Court av
 *Iowa Bridge Co., Crocker bldg
 *King, G. M. Construction Co.
 Magden & Sheeley, Clapp blk
 *Marsh Bridge Co.
 *Stark, N. M. & Co.

DUBUQUE—Dubuque Boat & Boiler Works
 Voggenthaler, E. J. Co.

MARSHALLTOWN—Shorthill, A. E. Co.

MUSCATINE—Niver Iron Works Co.

OSKALOOSA—*Seevers Mfg. Co.

KANSAS.

LEAVENWORTH—*Missouri Valley Bridge & TOPEKA—Capitol Iron Works Co. Iron Co.

*Topeka Bridge & Iron Co.

WICHITA—Wichita Construction Co.

KENTUCKY.

LOUISVILLE—Grainger & Co. (Inc.).

*Louisville Bridge & Iron Co.
 National Foundry & Machine Co.
 *Snead Architectural Iron Works.

LOUISIANA.

NEW ORLEANS—*American Bridge Co., Hennen bldg

Bedell Structural Steel & Foundry Co., Magnolia, Erato & Clase
 *Blerce, Wm. W. (Ltd.), Hennen bldg

***SCHREIBER, L. & SONS CO.** (See adv. index, end of book)

STEWART, JAS. & CO. (Mills & Railway Depots), Hibernia Bank bldg
 Sutton's Foundry & Structural Steel Works, 714 Magazine

MAINE.

BANGOR—Union Iron Works

PORTLAND—Fletcher & Crowell Co.
 Megqueler & Jones Co.

MARYLAND.

BALTIMORE—*American Bridge Co., Continental Trust bldg

Armstrong & Parker, 361 North
 Baltimore Foundry Co.
 *Baltimore Bridge Co., Bush & B. & O. R.R.
 *Bartlett, Hayward & Co., Continental bldg
 Chesapeake Iron Works, Bush & B. & O.R.R.
 Dietrich Bros., 344 North
 *Lauer & Harper Co. (Inc.), Westport
 Phoenix Iron Co., Continental bldg

MASSACHUSETTS.

BOSTON—*American Bridge Co., 89 State

*Berlin Construction Co., 131 State
 *Boston Bridge Works, 47 Winter

*Brown-Ketcham Iron Works (Bridges, Buildings & Vluaducts), 166 Devonshire
 Chelmsford Foundry Co., 159 Devonshire
 Eastman, Pease & Co., 12 Pearl
 Ford Steel Column Co., 176 Federal
 Ham, L. M. & Co., 152 Portland
 Harrington, Robinson & Co., 272 Franklin
 *New England Structural Co., 110 State
 *Penna. Steel Co., 70 Kilby
 *Smith, G. W. & F. Iron Co., Gerard & Island, Rox.

Smith & Lovett Co., 125 Albany

EVERETT—*New England Structural Co.

SPRINGFIELD—*Hawkins, R. F. Iron Works

*Springfield Construction Co.

Springfield Foundry Co.

Springfield Iron Works

*Walsh Boiler & Iron Works

WORCESTER—*Eastern Bridge & Structural Co.

MICHIGAN.

BAY CITY—*MacKINNON BOILER & Machine Co. (See adv. index, end of book)

DETROIT—*American Bridge Co. (book)
 Lewis, Henry B., 45 Jos. Campau av
 Rohns, Albert & Co., 193 Cass

RUSSEL WHEEL & FOUNDRY Co. (See adv. index, end of book)

*Whitehead & Kales Iron Works

GRAND RAPIDS—*Grand Rapids Bridge Co.

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 ery Co. (See adv. index, end of book)
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 av & Mackubin. (See adv. index, end of
 book)

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 *Blodgett, A. M., Thayer bldg Tel bldg
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 (See adv. index, end of book)
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 *Stupp Bros. Bridge & Iron Co., 906 Olive
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 (See adv. index, end of book)
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 Harrower, H. C. Co., 35 Court throp
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 Washington Iron Works, 419 Pratt
 Wurtz & Son, 23 Lloyd
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 FRANKFORD—*Acme Road Machinery Co.

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 *Empire Bridge Co., Clay & Provost
 Felgenhauer's, E. Sons, 782 Wythe av
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 bldg
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 *Berlin Construction Co., 220 B'way
 *Brown-Ketcham Iron Works (Bridges,
 Buildings & Viaducts), 1170 B'way
 CHILD, W. C. W., 1 Madison av.
 (See adv. index, end of book)
 *Cooper Iron Works (John Cooper, Prop.), 1
 Madison av.
 Cornell, J. B. & J. M. Co., 26th & 11th av.
 Daniels, Oscar Co., 15 Park row
 *Dean, Schwiers & Sutton Co., 136 Liberty
 Empire Eng. Corporation, 71 B'way
 *Fort Pitt Bridge Works, 45 B'way. Works,
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 *G. & W. MFG. CO., 26 Cortlandt.
 (See adv. index, end of book)
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 34th
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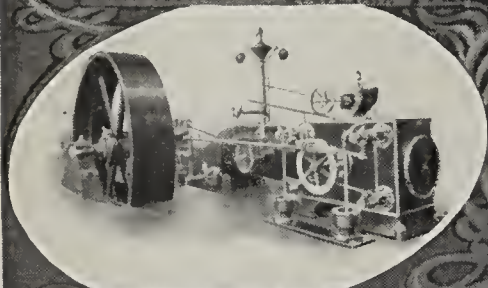
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 GIRARD—Ohio Boiler Co.
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 KENTON—*CHAMPION IRON CO. (See adv. index, end of book)
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 *Phoenix Bridge Co., 410 Walnut
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 *Snyder & Co., Harrison bldg
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 Wark, W. E. & Co., 16th & Chestnut
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 *Riter-Conley Mfg. Co., 56 Water book)
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Washington Bridge Co.
*Washington Bridge Co.
TACOMA—*Northwest Bridge Co., Bernice bldg

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*West Virginia Bridge & Construction Co.

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Wheeling Steel & Iron Co., Wheeling, W. Va.

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(See Tipples, Mine)

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(See Tanks & Towers, Water)

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(See Gears)

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Bradley Stencil Machine Co., St. Louis, Mo.
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Buchlein, Henry, 12 William, Newark, N. J.
Carragan & Tilson (Steel), 35 Beckman, New York
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Cleveland Steel Stamps Works (Steel), Cleveland, O.
Crescent Seal & Stamp Co., Cambridge, O.
Cunningham, M. E. & Co., Pittsburg, Pa.
Dayton Stencil Works (Steel), Dayton, O.
Dickey, A. H. (Steel), Cleveland, O.
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Johnston, Thos. H., Harrisburg, Pa.
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Koehler, Henry L., 410 W. Main, Louisville, Ky.
Leonhardt, Louis, 111 Warren, New York
Louisville Rubber Stamp & Stencil Co., 218 3d, Louisville, Ky.
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Moise-Klinker Co. (Exp.), 320 Sansome, San Francisco, Cal.
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NEWBURGH—Miller, D. C.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Bannon, P. & Sons, 129 Richards
 Hickey, M. F. Co., 7 N 2d av
 Ryan, N. Co., 491 Smith

Boroughs of Manhattan & Bronx.

NEW YORK—Algie, Robert J., 9 W 67th
AMERICAN CONCRETE CO., 80 William. (See adv. index, end of book)
 Brady, Jas. B., 525 E 118th
 Bradley, Wm. & Son, 90 West
 Brown, Geo. & Co., 1123 B'way
 Brown & Fleming Contracting Co., 59 Pearl
 Clinton Point Stone Co., 115 B'way
 Conklin & Foss, 299 B'way
 Cedarcliff Stone Co., 59 Pearl
 Hillside Quarry Co., 120 Liberty
LEOPOLD, J. & CO. (Granite), 18 B'way. (See adv. index, end of book)
 Long Clove Trap Rock Co., 39 Cortlandt
 McLaughlin, James Co., 303 W 68th
 Manhattan Trap Rock Co., 30 Church
 Murray & Co., 263 Avenue C
 North River Stone Co., 29 B'way
PICTON ISLAND RED GRANITE Co., 320 5th av (See adv. index, end of book)
 Rockland Lake Trap Rock Co. (Hudson River, etc.), 299 B'way
ROCKPORT GRANITE CO. (Granite, All Sizes), 15 Park Row. (See adv. index, end of book)
 Storm King Stone Co. (Trap Rock & Granite), 90 West
 Thomas, Hugh Co., 340 E 64th
 Tomkins Calvin, 17 Battery pl

(End of New York City)

ROCKLAND LAKE—Rockland Lake Trap Rock Co.
SYRACUSE—Canal Quarry Co. Rock Co.
TROY—Corliss Construction Co.
UTICA—Conley, F. E. Stone Co. (Limestone & Blue Sandstone)

OHIO.

BELLEFONTAINE—Bellefontaine Stone & Lime Co.
BELLEVUE—Bellevue Stone Co. Lime Co.
BUYRUS—Brokensword Stone Co. (Crushed for Concrete Purposes)
BLUFFTON—Buckeye Stone Co.
CAREY—Nat'l Lime & Stone Co.
CINCINNATI—American Stone Ballast Co., Johnston bldg
 Donnelly & Dovey Construction Co., Union Trust bldg
 Gray, E. F., Builders' & Traders' Exchange
 Kirchner Construction Co., 8th & Plum
CLEVELAND—Burgess, C. H., Lennox bldg
 Holran Stone Co., Rockefeller bldg
 Kelley Island Lime & Transport Co.
 Spence Bros. Construction Co., 12409 Euclid av
COLUMBUS—Buckeye Dredging Co. clid av
 Casparis Stone Co., Clinton bldg
 Columbus Macadam Co. (Limestone), 319
 Woodruff & Pausch Co. (Stone) Dublin av

FINDLAY—Hancock Stone Co.
 Tarbox & McCall
FOSTORIA—Ohio & Western Lime Co.
HOLLAND—France Co.
LOWELLVILLE—Carbon Limestone Co. (Concrete a Specialty)
MANSFIELD—France, E. H. Sons (Limestone stone)
MARION—Evans, Jno. Lime & Stone Co.
PIQUA—Statler Stone Co.
SPRINGFIELD—Mills Bros.
 Moores Lime Co. (Limestone)
SYLVANIA—Sylvania Stone Co.
TOLEDO—Acme Coal, Wood & Builders' Supply Co., Front & Droege
 Toledo Stone & Glass Sand Co.
 Waterville Stone Co., National Union bldg
 Ohio & Michigan Sand & Gravel Co. (Granite)
VAN WERT—Erie Stone Co. ite
WHITEHOUSE—Ryan, Jno.
YOUNGSTOWN—Bessemer Limestone Co. (For Concrete, Macadam, etc.)

PENNSYLVANIA.

BELLEFONTE—Bellefonte Limestone Co.
EASTON—Easton Lime Co.
GLEN MILLS—General Crushed Stone Co.
GREEN LANE—Davis Trap Rock Quarry Co. (See Phila., Pa.)
 Perkiomen Granite Co.
HARRISBURG—Spong, L. R. (Walton Quarries)
NEW CASTLE—Croton Lime & Stone Co.
NORRISTOWN—Block & Tile Co. (Limestone)
 Dyer, Jno. T. Quarry Co.
PHILADELPHIA—Birney, R. C. & Co., 1215 Filbert
 Bradley, Walter T. Co., 9th bel Girard av
 Cedar Hollow Co., Land Title bldg
 Clark & Co., 4425 Frankford av
 Conemaugh Stone Co., Arcade bldg
 Davis Trap Rock Quarry Co., Stephen Girard bldg
 De Train Sand Co., Beach & Berks
 Dyer, Jno. T. Quarry Co. (Stone), 15th & Market
 Holmesburg Granite Co., Fidelity Mutual Life bldg
 Ireland, Wm. H. Stone Crushing Co., 1218
 Keenan, D. F., Arcade bldg Filbert
 Knickerbocker Lime Co. (Limestone), 366 N 24th
 Lukens & Yerkes, Commonwealth Trust
 Peoples Bros., 25th & Callowhill bldg
 Richardson & Ross Quarry Co. (Quarries at Morgantown, Pa.), Penna. bldg
 Robinson, Thos. & Co., Real Estate Trust bldg
 Schuylkill Stone Co., Bulletin bldg
 Silicate Mfg. Co., 24 So 7th
 Warner, Chas. Co. (Limestone), Land Title bldg
 Williamson, Frank, 2202 Chestnut
PITTSBURG—Blair, Reed F. & Co. (Limestone), Frick bldg
 Booth & Finn (Ltd.), (Granite), 1942 Forbes av
 Clydesdale Stone Co. (Hard Sandstone)
 Consolidated Stone & Mining Co. (Limestone), Farmers Bank bldg
 Morris, A. G. Lime & Stone Co., Empire bldg
 Pope Cement & Brick Co., 421 Wood

SOUTH BETHLEHEM—General Crushed Stone Co.
TYRONE—American Lime & Stone Co. (Limestone)
WAMPUM—Wampum Crushed Stone Co.
WAYNESBORO—Decarbonated Lime & Stone Co.

RHODE ISLAND.

EAST PROVIDENCE—McCormick, Jos.
PROVIDENCE—Oneco Granite Co., 49 Westminster

TENNESSEE.

NASHVILLE—Tenn. Crushed Stone Co.
NEWSOMS STATION—Newsom Crushed Stone & Quarry Co.

TEXAS.

EL PASO—El Paso Ice & Refrigerator Co.

VERMONT.

HARDWICK—Woodbury Granite Co. (Granite Only)

WASHINGTON.

SEATTLE—Independent Asphalt Paving Co.

WEST VIRGINIA.

MARTINSBURG—Berkley Limestone Co.

WISCONSIN.

AMBERG—Pike River Granite Co.
KENOSHA—Davy Burnt Clay Ballast Co.
LA CROSSE—La Crosse Stone Co.
MILWAUKEE—American Granite Co. (Granite)

Lannon Crushed Stone Co., 2905 North av
Milwaukee Concrete & Supply Co., Matthews bldg

Waukesha Lime & Stone Co., 1211 Humboldt av

OSHKOSH—Lutz, Robert

RACINE—Horlucks' Lime & Stone Co.

O'Laughlin, Jno. Stone Co.

WATERTOWN—Richwood Crushed Stone Quarry

Stone Crusher Parts & Repairs

(See also Castings, Rock Crusher)

American Brake Shoe & Foundry Co., Mahwah, N. J.

Steel & Condit, Pearl & Steubner, Jersey City, N. J.

Taylor Iron & Steel Co., Hight Bridge, N. J.

Stone Crushers

(See Rock & Ore Crushers)

Stone Crushing Plants (Complete)

Acme Road Machinery Co., Frankfort, N. Y.
ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Bacon, Earle C., 26 Cortlandt, New York

Chalmers & Williams, Commercial National Bank bldg, Chicago, Ill.

Climax Road Machine Co. (Stationary or Portable), Marathon, N. Y.

Cresson, Geo. V. Co., Allegheny av, W of 17th, Phila., Pa.

Good Roads Machinery Co. ("Champion" Portable), Kennett Square, Pa.

KOEHRING MACHINE CO., Milwaukee, Wis. (See adv. index, end of book)

MARYLAND EQUIPMENT & SUPPLY Co., Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

Meyer, Henry H. Co., 110 S Howard, Baltimore, Md.

Mill & Smelter Engineering Co., 114 Liberty, New York

Power & Mining Machinery Co., Cudahy, Wis.

South St. Louis Foundry, St. Louis, Mo.

Traylor Engineering Co., Allentown, Pa.

Universal Road Machinery Co., 120 Liberty, New York

*Stone (Curbing)

BEDFORD QUARRIES CO., 204 Dearborn, Chicago, Ill. Quarries & Mills, Oolitic, Ind. (See adv. on front cover)

OHIO QUARRIES CO., 818 Euclid av, Cleveland, O., & 1 Madison av, New York. Quarries & Mills, Amherst, O.

Stone Cutters' Pneumatic Tools

(See Pneumatic Stone Cutters' Tools)

Stone Cutters' Tools

(See Tools, Granite & Stone Cutters)

Stone Cutting Machines

(See Machines, Stone Cutting)

*Stone (Istrian, Hauteville & Touraine)

BOCKMAN & SHERIDAN, 1265-9 Broadway, New York. (See adv. index, end of book)

Stone Planers

(See Planers, Stone)

Stone Polishing Machinery

(See Machinery, Stone Polishing)

Stone Producers, Workers & Dealers

(Firms who operate quarries are marked by either a § or * in towns where their quarries or main office are located, or at the nearest P. O. to their works)

(See also Granite Producers, Workers & Dealers; also Marble Producers)

ALABAMA.

ANNISTON—*Anniston Lime & Stone Co.

*Largard Lime & Stone Co.

BIRMINGHAM—*Alabama Consolidated Coal & Iron Co. (Limestone, All Consumed by the Company)

Alabama Cut Stone Co. (Cut Contractors)

Oak Hill Marble & Stone Works (Cut Contractors)

Reed Bros. Steam Stone Works

*Sloss-Sheffield Steel & Iron Co. (Limestone, All Consumed by the Company)

*Southern Steel Co. (Limestone)

*Tennessee Coal, Iron & R. R. Co. (Limestone, All Consumed by the Company)

HUNTSVILLE—Hummel, J. F. & Sons (Cut Contractors)

MOBILE—McDonald, D. J. Stone Co. (Cut Contractors & Flagging)

McDonald, March & Co. (Cut Contractors)

ALASKA TERRITORY.

FLAGSTAFF—§Arizona Sandstone Co.

ARKANSAS.

BATESVILLE—*Pfeiffer Stone Co. (Batesville Oolitic)

CALIFORNIA.

COLTON—*California Portland Cement Co. (Building Rock)

GILROY—§Martin, A. A. (Cut Contractors)

LOS ANGELES—Allison, S. & Co., 1354 Palmetto

Bly Bros. Stone Co., 720 S Alameda

*California Construction Co. (Granite & Sandstone), 324 E Market

*California Portland Cement Co. (Building Rock), 129 W 2d

Lane Bros. (Cut Contractors), 910 S Main

OAKLAND—Veitch, W. T. & Bro.

PASADENA—Holmes, Thos. & Son

SACRAMENTO—Harder, O. (Cut Contractor)

SAN DIEGO—§Simpson & Pirnie Granite Co.

SAN FRANCISCO—Colusa Sandstone Co., 4 Potrero av

*Gray Bros. (Crushed Rock Co.), Wells Fargo bldg

McGilvray Stone Co. (Cut Contractors), Townsend & 7th

McPhee Co. (Cut Contractors), 1308 16th

§Raymond Granite Co., Potrero & Division

San Pablo Quarry Co., Balboa bldg

Western Cut Stone Co., 127 Montgomery

Wetmore, Geo. P. & C. A., 412 2nd

SANTA ANA—§Arizona Sandstone Co.

COLORADO.

COLORADO SPRINGS—Newton Lumber & Mfg. Co.

DENVER—Barker, E. S. Co. (Cut Contractors)

*Colorado Fuel & Iron Co. (Limestone & Dolomite Quarries)

Edwards, E. A. & Co. (Cut Contractors), 13th & Delgany

Fraser & Richardson Stone Co. (Cut Contractors), 6th & Wewatta

Geddis & Seerle Stone Co. (Cut Contractors)

Greenlee Stone & Bldg. Co., 1515 13th

Hathaway Stone Co., 11th cor Wewatta

Mann, Herbert, 7 Larimer

Roberts, J. F., 16th cor Delgany

Sites & Bnell, 2026 Delgany

Threewitt, B. F., 1700 15th

PUEBLO—Harold, D.

Summers, J. C.

CONNECTICUT.

ANSONIA—*Ansonia Trap Rock Co.

§Potter, Wm. (Cut Contractors)

*Wooster, Chas. B.

BRIDGEPORT—Bridgeport Stone Co.

*Costigan, John, 832 Ogden

§Dixon, Jno. D., Sylvan av nr Trumbull rd

*Evers Quarry, Arctic & Knowlton

Jackson Stone Co. (Cut Contractors)

Keane, M. G., 231 Housatonic av

Purdy, H. M. Co. (Blue), 550 Water

Sillman & Godfrey Co. (Blue), 1119 Broad

Wheeler & Howes (Blue), 944 Main

BRISTOL—Arms, Howard G. (Foundation)

DERBY—Fagan, F. H. Co. (Flagging)

Patchen, Edw. G. (Flagging)

*Kendrick, Joseph, Jr.

*Shay, John

GUILFORD—*Beattie, John (Est. of)

HARTFORD—Anderson, Knut H. (Flagging, etc.), 355 Park

Belden, Seth & Son (Flagging, etc.), 69 Commerce

Billings Sidewalk & Coal Co. (Blue, etc.)

Danielson, A. Co., 98 Babcock

Freeburg, A. S., 5 Capitol av, ext

*Keenau, D. F. (Trap Rock, Rough Wall, Bottom Stone, etc.), 721 Main

Kelly Bros. (Cut Contractors), 93 Charter Oak

*O'Connor-Walker Co. (Cut Contractors), 40 Edwards

Putnam, H. E., 156 Woodland

Watson, Alexander (Flagging), 283 Sheldon

LIME ROCK—*Barnum-Richardson Co. (Limestone, All Consumed by the Company)

MANCHESTER—Hollister, Wesley

MERIDEN—*Connecticut Trap Rock Quarries (Crushed)

Grossman, G. J. (Free), 126 Hanover

*Kearney, Thos.

Lane, Jno. S. & Son (Inc.) (Crushed Trap Rock)

*Lane Quarry Co. (Crushed, etc.)

Lines, H. Wales & Co. (Blue & Brown Stone), 134 State

Lnby, Wm. J. (Blue, etc.)

MIDDLETOWN—Middletown Coal Co. (Flagging, etc.)

NEW BRITAIN—Baker, Loren C. (Curb & Flag)

Cadwell, Chas. B. (Building & Crushed)

Halloran, M. W. (Building)

Hanna's, John Son (Cut Contractor)

Meehan, Jno. F. (Freestone)

Smith, T. C. (Bluestone)

NEW HAVEN—Blakeslee, C. W. & Sons (Building, Broken & Blue), 58 Waverly

Blake, T. A. (Stone, Crushed), 100 Audubon

Brazos, Frank (Brown & Blue Stone, Crushed, etc.), 803 Elm

Connecticut Concrete Co. (Building & Crushed), 39 Church

*Connecticut Trap Rock Quarries (Crushed Trap Rock), 46 Meadow

Howard Co. (Blue), 250 Boulevard

Kaehle Stone Co. (Cut Contractors), 6 Hamilton

Kimberly, F. Lester (Cut Contractor), 533 Savin av, W H

Maxwell, Jno. & Son, 70 Hill

Robertson, T. B., 755 Whalley av

Upson & Grannis (Crushed), 116 Franklin

Warner-Miller Co. (Blue Stone), Railroad av, ft. St. John

NEW LONDON—D'Avignon, F. P. (Blue & Brown)

Ladd, F. M. Co.

Rogers, H. E. Construction Co.

§Ryan, J. J. (Cut Contractor & Flagging)

NEW MILFORD—Hanson, Christian

NIANTIC—*Luce, James V.

NORWALK—*Hall, Irving

Meeker Coal Co. (Blue)

NORWICH—Dodd, Thos. J.

Harrington, P. J.

Peck, McWilliams & Co. (Flagging)

Torrance, A.

PLAINVILLE—§Cook Stone & Ice Co. (Trap Rock)

PORTLAND—§Brainerd, Shaler & Hall Quarry Co. (Brown)

Connecticut Steam Brownstone Co. (Brownstone Cutters & Contractors)

ROCKVILLE—Martin, W. B.

*Rau, Conrad B. (Flagging)

ROCKY HILL—*Conn. Trap Rock Quarries

SHELTON—(See Derby)

SOUTH NORWALK—(See Norwalk)

STAFFORD SPRINGS—Kingsbury, A. W.

(Monumental Work & Curb Stone, Stone Cutter)

STAMFORD—Bonnty, A. E. (Blue Flagging)

Dean, Geo. W. (Blue & Brown)

O'Connor John & Sons

TORRINGTON—DeMichele, Jno. & Bros.

WATERBURY—§Chatfield & Chatfield (Blue, Gaffney, J. W. & Co. (Blue) etc.)

Jackson, Thos. F. (Cut Contractors)

WILLIMANTIC—*Larrabee, C., Jr.

WINSTED—Carey, Joseph F.

DELAWARE.

MIDDLETOWN—Hunkill, G. E.
WILMINGTON—*Scott, James H., 2104 W 17th
Simmons & Bro. (Curbing), 102 W 5th
*Stewart & Donohue, Augustline
*Tyre, Philip P., Jr., Shellpot

DISTRICT OF COLUMBIA.

WASHINGTON—Acker & Co., 524 N J av
Butt-Chapple Stone Co., 1st cor O, N W
Escher, Geo. C., 2d cor O, N W
Flannery, M. C., Del av cor B, S W
Geler, C. F., 807 13th, N E
Gilbert, Henry P., 1062 Wis av
Heany, Thos., 482 Mass av, N W
Heldenreich, Frederick, Bladensburg rd
Low, Robert & Co., 115 3d, S W
Miller-Kopp Cut Stone Co. (Cut Contractors), 23 N, N E
Rupprecht, Harry E. (Cut Contractors), 129 Pa av, N W
*Smith, Chas. G. & Son (Foundation & Potomac Blue), 3218 K, N W
Smith, Philip, 1st cor B, S W
Veilmeyer, Jacob & Son, 1420 Ohio av, N W
Williams, B. A. & G. N. (Cut Contractors), S Capitol & K

GEORGIA.

ATHENS—Bisson, P. & Sons (Building)
ATLANTA—Indiana Stone Co. (Cut Contractors)
Capital Stone Co. (Cut Contractors)
Kriegshaber, V. H.
McDonnell Stone Co., 6 Hill
Piedmont Stone Co.
Sharkey, W. G. Stone Co. (Cut Contractors)
Venable Bros., Temple Court
Walker & Newmeyer Stone Co.
AUGUSTA—Georgia Rough & Cut Stone Co.
COLUMBUS—Elledge & Norman
LITHONIA—*Crossley, R. J.
Norton & Davidson
NELSON—Blue Ridge Marble Co. (Cut Contractors)
SAVANNAH—Dixie Stone Co. (Cut Contractors)
Savannah Cut Stone Co. (Cut Contractors)

ILLINOIS.

ALTON—*Armstrong, Jno. Lime & Quarry Co. (Limestone)
*Reliance Quarry & Construction Co.
*Watson, Henry (Limestone)
AURORA—Kapp, P. & Son
BATAVIA—*Barker, Wm. P. & Son
*Hunter, Griffith Co.
BLOOMINGTON—Higgins-Jung-Kleenau Co.
Moore, J. K. (Cut Stone)
CHICAGO—American Crushed Stone Co., 2 Webster av
*AMERICAN STEEL & WIRE CO.
(All Consumed by the Company), Commercial National Bank bldg. (See adv. Index, end of book)
Anderson, Andrew G., 5838 Justine
Anderson & Lundgren Cut Stone Co., 5821 S May
Artesian Stone & Lime Works Co. (Limestone), Grand & N Campbell avs
Baumann, Jacob, Greenwood ter & Ward
*BEDFORD QUARRY CO. (Buff & Blue Oolitic, Ind. Limestone), 204 Dearborn. Quarries & Mills, Oolitic, Ind. (See adv. on front cover)
Boileau, Paul W., 40th av & Taylor
Bredfelt Bros., 700 Cornella
Caldwell, Frank A. & Co., 560 W 47th
Central Oolite Stone Co., 138 Washington
Chicago Crushed Stone Co., 108 La Salle
Chicago Cut Stone Co. (Cut Contractors), 3403 La Salle
*Chicago Union Lime Works Co. (Macadam & Crushed), 19th & S Lincoln
Cleveland Stone Co. of Cleveland, O. (Ohio Blue & Buff), 204 Dearborn
*Consolidated Stone Co. (Bedford, Indiana Stone), Monadnock blk
Dearborn Cut Stone Co., 6100 Lafayette av
Diener, T. C. & Co. (Contractor, Cut), 348 W 21st
*Dolese & Shepard Co. (Crushed, etc.), 184 La Salle
Edgeworth-Stone Co. (Contractors Cut), 2700 Stewart av
Edwards, John H. (Cut Contractors), 5837 S Ashland av
Edwards & Ward (Cut Contractors), Fil-Eddorf, John, 1133 Otto lerton av
Falter, Geo. & Son (Cut), 2068 W Taylor

Federal Stone Co., 138 Washington
Fenn, C. E. & Co. (Wholesale, Bedford Stone), 164 Dearborn
Fisk & Pretzel, 2228 Evanston av
Fluck & Hamilton (Cut Contractors), 73d & Kluhark av
Fuog & Hufnagel (Cut Contractors), 1571 N Western av
Furst Kerher Cut Stone Co., 443 5th av
Furst, Neu Co., 218 La Salle
Furst & Fanning (Cut Stone Contractors), 73 Hawthorne
Galloy & Van Etten (Cut Contractors), 118th & S Halsted
Gelpel, Ernest C., 5830 Centre av
Gibson, A. F. & Co. (Cut Contractors), 3327 La Salle
Gindele, Chas. W. Co. (Cut Contractors), 3333 La Salle
Godfraux & Co., 1058 Girard
Greene & Sons, 3403 Lowe av
Griswold & Chambers, 138 Washington
Hagan, James A., 24 E 42d
Heldwaler, Ernst (Cut Contractor), 25th & Throop
Henne & Co. (Cut Contractors), cor Blanch
Henry, Wm., 5837 Justice & Fleetwood
Hepperle, J. & Son, 399 S Springfield av
*Hunter Valley Stone Co., 125 Monroe
*Illinois Steel Co. (Limestone, all Consumed by the Company), 115 Adams
*Illinois Stone Co. (Dimension & Rubble), 22d & Lumber
Jones, Thos. J., 640 S. Rockwell
Karge, Frank (Cut Contractors), 5829 Bishop
Kaspar & Stoklasa (Cut Contractors), 991 S Sawyer av
Kauffman, Jos. (Cut Contractor), 523 Elston av
Kempe, P. & Co. (Cut Contractors), 320 S Jefferson
Klingenhagen, F. M. (Contractor, Cut), 421 Flournoy
Kurfess, Gregor (Cut Contractor), 429 W North av
*La Grange Stone Co. (Crushed, etc.), Old Colony bldg
Lamb, Alexander, 5838 Laflin
Lange & Arch (Cut Contractors), Oak Park
Lawndale Cut Stone Co. (Cut Contractors), 1332 S Harding av
Lemont Limestone Co., Ashland av s of 22d
McDonald, Andrew F., 541 W 57th pl
McHugh, Jno., 5818 Normal av
McMillan, W. & Son (Inc.), (Building & Cut Stone), Chamber of Commerce bldg
McWhirter, David (Cut Contractor), 102 W North av
Mahan Co., Chamber of Commerce bldg
Malone Stone Co. (Ohio Blue & Buff), 218 La Salle
*Mathers Stone Co., 125 Monroe
Mecse, Pasquale (Contractor), 894 N West
Miers, D. K., 125 Monroe
*OHIO QUARRIES CO. (Blue & Buff, Ohio Sandstone, Sawed Stone a Specialty), 204 Dearborn. Quarries & Mills, Amherst, O.
Ohio Sandstone Co., 204 Dearborn
O'Laughlin, Jas. & A. C., 172 Washington
Olson & Nelson Cut Stone Co. (Cut Contractors), 3345 La Salle
O'Meara, William, 638 S Rockwell
*Peoria Stone & Marble Works (of Peoria), 204 Dearborn
*Perry-Matthews-Busklrk Stone Co. (Bedford Indiana Stone), Monadnock blk
Petersen Cut Stone Co., 138 Washington
Pickel, Jacob, 4 E Webster av
Pickel & Stoeckert (Cut Contractors), 85 Station
Pickel, Wm. (Cut Stone), 788 N Western av
*Portage Entry Quarries Co. (Lake Superior Portage Red, Brown & Variegated Sand), 218 La Salle
Producers' Supply Co., Cham. of Com. bldg
*Racine Stone Co., 206 La Salle
Rutishauser, Wm., 343 N Lincoln
Sietz, Jno. & Co., 903 N 40th st
Shirlaw, Hugh (Cut Contractors), 3557 Stewart av
Skoglund, August H. (Cut Contractor), 172 Washington
Skoglund, Emil G. (Cut Contractor), 3451
*Star Stone Co., 125 Monroe N Clark
Stein, Ebertshauser & Co. (Cut Contractors), 56 E Division
Struble, Henry, Cut Stone Co., Rookery bldg
Sward, A. E. & Co. (Cut Contractors), 449 33rd
Talt, John (Contractor, Cut), 3401 La Salle
Thomlinson-Riley Co. (Cut Contractors), 760 W 39th
*United States Crushed Stone Co., 184 La Salle
Watson, Gavin F., 72d & Washington

*Waukesha Lime & Stone Co. (Rubble, Dimension, etc.), 965 N Central Park av
Western Stone Co. (Cut Contractors), 320 Chamber of Commerce bldg
Wilde & Schmidt (Cut Contractors), W 21st & Marshall boul
Wolf, Rudolph, 1221 Newport av
Wurster, Charles (Cut Contractor), 987 Ogden av
*Young Stone Co., Oakley & Oakdale avs
DECATUR—Grindol, W. H. & Son
Passoid, John J. (Cut Contractor)
EAST ST. LOUIS—*East St. Louis Stone Co. (Cut Contractors)
*Queen City Quarry Co.
*Stolle, Casper Quarry & Construction Co.
ELGIN—Magnus & Russell (Cut Stone)
ELMHURST—*Elmhurst-Chicago Stone Co.
FAIRMOUNT—*Casparis Stone Co.
FREEPORT—Ascher, William
GALESBURG—Craig & Harris (Cut Contractors)
Davis, S. B. (Cut Contractor)
King, Alex. & Co. (Cut Contractors)
GRAFTON—*Grafton Quarry Co. (Sandstone)
HIGHLAND—Feutz, Edward
JOLIET—*Bruce, James Quarries
Commercial Stone Co. (Limestone)
*Groth, Adam & Co. (General & Cut Stone Contractors)
*Joliet Flux Co. (Crushed, etc.)
*Joliet Quarries Co.
*Keittie Stone Co.
*Kraker Stone Co.
*Merchants Stone Co.
*Ross & Curtis Stone Co.
*Western Stone Co.
KANKAKEE—*Lehigh Stone Co. (Crushed Stone, etc.)
LA GRANGE—*La Grange Stone Co. (Crushed Stone, etc.)
LEMONT—*Consumers' Stone Co.
*Illinois Stone Co. (Dimension & Rubble)
*Western Stone Co. (Limestone)
*Young Stone Co.
LENA—Perkins, H. F. (Cut Contractor)
LINCOLN—Lincoln Monument Co.
LOCKPORT—*Bruce, James Quarries
*Western Stone Co. (Limestone)
MOLINE—*Cady Stone Quarry
*Moline Stone Co. (Limestone)
PEORIA—Peoria Stone & Marble Works (Contractors, Cut), 1800 N Adams
Wasson, T. J. (Crushed), 403 S Washington
QUINCY—*Menke, F. W. Stone & Lime Co. (Limestone)
ROCKFORD—*Carrico Stone Co.
*Hart & Page (Building, Bridge & Rubble)
McMahon Bros.
Winchester, Thos. (Cut & Building)
ROCK ISLAND—*Davis, T. B. (Limestone Crushed Rubble)
SPRINGFIELD—Banm, M. J. (Cut Stone)
Culver Construction Co. (Cut Stone)
Fortado, J. L. Co. (Cut Contractors)
Illinois Granite & Stone Works (Cut Contractors)
URBANA—Clark, C. N. & Co. (Cut Contractors)
VIRGINIA—Martin, A. L. (Cut Contractor)
WAUKEGAN—Bairstow, Fred. (Dealer)

INDIANA.

BEDFORD—*Bedford Buff Stone Co.
Bedford Cut Stone Co. (Cut Contractors)
Bedford Linton Crush Stone Co.
*Bedford-New York Quarries Co.
*Bedford Quarries Co.
*Bedford Steam Stone Works (Saw Hills, Columns, etc.)
Bedford Stone & Construction Co.
*Bradley, Wm. & Son (Cut Contractors) (of New York)
*Consolidated Stone Co. (of Chicago)
*Doyle, Geo. & Co. (of New York)
Dugan Cut Stone Co. (Cut Contractors)
*Empire Stone Co. (of Bloomington, Ind.)
*Furst, Kerber Cut Stone Co. (Cut Contractors) (of Chicago)
Goodall Cut Stone Co. (Cut Contractors)
*Indiana Bedford Stone Co.
Indiana Cut Stone Co. (Cut Contractors)
*Norton-Reed Stone Co.
*Oolitic Stone Co.
*Perry-Matthews-Busklrk Stone Co. (Bedford Indiana Stone)
Rowe, John A. Cut Stone Co. (Cut Contractor)
*Struble, Henry, Cut Stone Co. (Cut Contractors) (of Chicago)
*Thornton, E. B.
BLOOMINGTON—*Bloomington-Bedford Stone Co.
Bloomington Cut Stone Co. (Cut Contractors)
*Central Oolitic Stone Co. (Cut Contractors, Bluff & Blue Limestone)
*Chicago & Bloomington Stone Co.
*Consolidated Stone Co. (of Chicago)

*Crescent Stone Co.
 *Crown Stone Co.
 *Eagle Stone Co. (Ltd.)
 *Empire Stone Co.
 *Hendley, Geo. W. Stone Co. (Sawed, Cut & Turned, etc.)
 Hoadley Stone Co. (Inc.) (Cut Contractors)
 Hunter Bros. Stone Co.
 §Hunter Valley Stone Co.
 *Johnson Matthews Co.
 *McMillan, W. & Son (of Chicago)
 *Mathers Stone Co. (of Chicago)
 Monarch Stone Co. (of Indiana)
 *Monroe County Oolitic Stone Co.
 §National Stone Co. (Buff & Blue Limestone)
 Nolan, James H. Sons
 *Perry Bros. Stone Co.
 *South Side Stone Co.
 *Star Stone Co. (of Chicago)
BOONVILLE—*Dalton, H. M. Stone Co. (Crushed Stone & Railroad Ballast)
BRAZIL—Brazil Stone Co.
CANNELTON—*Pauline, F. S. & Co.
COLUMBUS—McCormack, P. H. Co.
DECATUR—*Haugk, Julius
 *Haugk, Julius
ELLETSVILLE—Eclipse Stone Co. (Bedford Cut Stone)

*Ellettsville-Perry Quarries Co.
 *Griswold & Chambers (See Chicago, Ill.)
 Matthews, A. E. (Cut Stone)
 *Matthews Bros.
 *Perry Bros. Stone Co.
 *Perry Stone Co.
 Thompson, A. J.
ELWOOD—Dlzel, S. H. (Cutter, Flagging, etc.)
EVANSVILLE—*Caden Stone Co. (Green River Oolitic Limestone, Rough & Cut)
 *Eichel Lime & Stone Co. (Crushed Macadam, etc.)

Indiana Marble & Granite Works (Cut)
 Scholz, F. J. & Son
FORT WAYNE—Geake, W. (Cut Contractor)
 Keller & Braun (Cut Contractors)
 §Moellerling's, Wm. Sons
FRANKFORT—*Morris, W. G. & Bro.
 Paul, D. W.
GOSHEN—Slaughter Granite Co.
GREENCASTLE—Oakalia Stone & Lime Co.
 Torr, J. C. Co.
GREENSBURG—§Greensburg Limestone Co.
INDIANAPOLIS—A. & C. Stone & Lime Co.,
 *Adams, H. C., 230 E Ohio 17 N Penn
 Billingsley, J. H. Co. (Cut Contractors), 1405 Bates
 Fife, George W. (Cut Contractors), 230 E Ohio
 Ittenbach, G. & Co. (Cut Contractors), 916 Harrison
 Robbins, Samuel (Cut Contractor), Lemcke bldg
 §Romona Oolitic Stone Co. (Cut Contractors), Saks bldg
 *Spencer Stone Co., Am. Central Life bldg
 *Yawger, A. J. Co. (Building, Dimension, Crushed, Limestone, etc.)
LAPORTE—Franklin, B. A. (Cut Contractor)
LAUREL—*Manly, Harry
 Secrist, D. L.
LOGANSPOUT—*Mount Airy Stone Co.
MARION—*Marion Stone Co.
MUNCIE—Busch, Russell & Gelts (Cut Contractors)
NEW ALBANY—Vernia, John & Son (Cut Contractor)
NEW POINT—§Big Four Stone Co.
 *Putman, Jno. J. (Limestone)

OOLITIC—***BEDFORD QUARRIES CO.**
 (Buff & Blue Oolitic Indiana Limestone),
 Offices, 204 Dearborn, Chicago, Ill.; 1
 Madison av, New York, & 818 Euclid av,
 Cleveland, O. (See adv. front cover)
ONGOOD—*Achman, A. B. & Co.
 *Wagner, Nick, Jr.
PAOLI—*Braxton, T. M. & Sons (Whetstone)
ROCKVILLE—Gaebler, T. F.
ROMONA—§Romona Oolitic Stone Co.
ST. PAUL—*Adams, H. C.
 *St. Paul Stone Quarries
SOUTH BEND—Schmidt Cut Stone Co. (Cut Contractors)
SPENCER—*Spencer Stone Co. (Cut Contractors)
STINESVILLE—*Hoadley, J. & Sons Co.
 (Sawed, Planed, Turned & Cut)
 *Romona Oolitic Stone Co.
TERRE HAUTE—Roberts, Richard B. & Son
 (Cut Contractors)
 §Terre Haute Stone Works Co. (Cut Contractors & Flagging)
 Walsh, E. W.
WESTPORT—Westport Stone Co.

IOWA.

BURLINGTON—Burrus, O. M. & Bro.
CEDAR RAPIDS—*Bealer, E. J. (Dimension Edinger Bros. (Cut Stone) & Building)
 *Iowa Stone Co.

CLINTON—McDonnell, D. P. J. (Cut Contracting Stone)

DAVENPORT—*Boland Stone Co.
 *Gromoll Stone Co.
 *Le Claire Stone Co.
 *Linwood Stone Co.
DE SMOINES—§Rowat, Jno. (Cut Contractor)
DUBUQUE—Schulte, B. & Son (Cut Contractors)
 Wagner, Henry (Cut Contractors)
FORT DODGE—Delano & Son
FORT MADISON—§Fort Madison & Appanosse Stone Co. (Crushed, etc.)
INDIANOLA—Lundy, Jas. W.
KEOKUK—§Cameron & McManus
 §McManus & Tucker
LE MARS—Moore, M. A.
 Perry, W. H.
MARSHALLTOWN—§Le Grand Quarry Co. (Cain, Oolite & Lime)
MASON CITY—Dayton, C. G.
STONE CITY—*Dearborn, H. & Sons
 §Erickson, F. Co.
 §Green, Jno. A.
 *Ronan, John
WATERLOO—*Bartlett & McFarlane
 Moline & Lawson (Cut Contractors)

KANSAS.

GODDARD—Pond, W. M. & Co.
JUNCTION CITY—De Armond & Root
KANSAS CITY—Kansas City Cut Stone Co.
 Rock Hill Stone Co. (Cut Contractors)
PARSONS—Van Meter, J. F. (Cut Contractor)
PITTSBURG—White, Hance & Son
STERLING—Fair, D. J.
TOPEKA—Cuthbert & Sargent (Cut Contractors)

KENTUCKY.

COVINGTON—Farrell, James (Cut Contractor)
 Imeson, J. W. (Cut Contractor)
 Rich, Jos. W., Lex Pike
 *Schlosser, Frank J., Highland Pike
DAYTON—Walter Bros.
FARMERS—*Rowan County Freestone Co. (Kentucky Blue, Rough, Bridge, Dimensions, etc.)
HADLEY—*Caden Stone Co. (Green River Oolitic Limestone, Rough & Cut)
HENDERSON—§Fleming, J. H. & Son (Cut Contractors)
HOPKINSVILLE—*Dalton, H. M. Stone Co. (Crushed Stone & Railroad Ballast)
 Hopkinsville Stone Co.
LANGFORD—*Rockcastle Stone Co.
LEXINGTON—Lexington Stone Co.
LOUISVILLE—§Blatz & Krebs Stone Co. (Cut Stone Contractors), 1318 W Walnut
 Bowling Green White Stone Co.
 Diebold, John & Sons (Steam Stone Works & Contractors), 1417 16th
 §Kilgus, C. F., Long av, e of Workhouse rd
 *Kremer & Co., Long av, e of Workhouse rd
 Peter, Joseph H. & Co. (Cut Contractors)
 (Peter & Burghard Stone Co. Cut Contractors), 14th cor Maple
 Peter & Melcher (Cut Contractors), Logan
 *Salem Bedford Stone Co. & Rupp sts
 §Stengel, Urban & Son, 1103 E Breckenridge
MOUNT VERNON—*Sparks, W. J. (Limestone)
NEWPORT—Imeson, Frank (Cut Contractor)
 *Ohio River Stone Co.
 Splinks, Harry C.
OWENSBORO—Mischal, Geo. & Sons (Cut Trap Stone Co. Contractors)
PADUCAH—Downs, J. S. & Co.
 Lydou, Wm., Marble Co.
 Williamson, J. E. & Co.
SHELBYVILLE—Claxon, J. O.

LOUISIANA.

NEW ORLEANS—Jahncke, F. (Dealer), 810 Howard
SHREVEPORT—Newman, A. J. (Cut Contractors)

MAINE.

BELFAST—Hutchins Bros.
 Wood, M. & Son
BIDDEFORD—(See Granite Producers, Workers & Dealers)
HALLOWELL—***BROWN, HERBERT L.**
 Co. (Granite, Marble & Limestone). (See adv. index, end of book)
JONESBORO—(See Granite Producers, Workers & Dealers)
PORTLAND—Mannix Bros. (Freestone)
 Union Granite Co., ft Wilmot
SOUTH PARIS—Walker, A. W. & Son

MARYLAND.

BALTIMORE—Andrew, D. M. Co. (Cut Contractors), 1014 Homewood av
 §Atkinson, James H. (Curb, Building, Flag, etc.), 29th & Hampden av
 Bevan & Sons, Belt Line R. R. & Frisby
 Berry & Tracey (Freestone, North River Blue, etc.), 320 W Hamburg
 Clough & Molloy (Cut Contractors), Harford rd & Belt Line R. R.
 *Conway, J. T., Stone Quarry Co., 2740 Huntingdon av
 *Eastman Stone Co., Equitable bldg
 Ehman, Chas. E., Woodbourne & Beauregard avs
 Gault, Wm. A. & Son (Cut Contractors), 9 E Lexington
GUILFORD & WALTERSVILLE
 Granite Co. (Flint & Feldspar, Rough or Ground, Granite Paving Blocks, Crushed Stone, Building & Dimension, Granite), 3 E Lexington. (See adv. index, end of book)
 Herrick, Jno. Howard (Quarry Agent, Blue, Red & Brown Stone, Marble, Granite & Limestone), 7 Clay
 Hook & Ford Contracting Co. (Crushed), Equitable bldg
 §Independent Quarry Co., 309 N Holliday
 King, J. P. & Co., Warner & Ostend
 Knight, Maurice L. (Cut Contractor), 1025 W Mulberry
 §Leonard, Daniel A. (Flagging, Building, Paving & Crushed), Builders' Ex
 *Longley, Wm. M., Quarry Co., 711 Bloomingtondale av
 Mann, Geo. (Cut Contractors), Columbus av & B & O R R
 *Maryland Quarry Co., Gaither East bldg
 O'Meara, Jas. & Bro., 1129 Fremont av
 Patapsco Quarry Co., Equitable bldg
 §Pedicord, I. H. & Sons Quarry Co. (Crushed), 879 Greenmount av
PETERSBURG GRANITE CO.
 (Flint & Feldspar, Rough or Ground, Granite Paving Blocks, Crushed Stone, Building & Dimension Granite), 3 E Lexington. (See adv. index, end of book)
 *Pope, B. F., Stone Co., Law bldg
 Rullman & Wilson (Cut Contractors), Mt Royal av
 §Schwind Quarry Co. (Crushed Stone), 302 Fidelity bldg
 §Standard Lime & Stone Co. (Lime), Equitable bldg
 Thomasville Stone & Lime Co., 622 N Calvert
 Weber, Albert (Cut Contractor), Builders' Ex

DICKERSON—§Standard Lime & Stone Co.
DINWIDDIE—***PETERSBURG GRANITE CO.**
 Co. (See adv. index, end of book)
GUILFORD—***GUILFORD & WALTERSVILLE**
 Granite Co. (See adv. index, end of book)
WHITEHALL—*Eastman Stone Co.
WOODSTOCK—***GUILFORD & WALTERSVILLE**
 Granite Co. (See adv. index, end of book)

MASSACHUSETTS.

ATHOL—Wellman, L. M. W.
BOSTON—Bishop, J. W. Co. (Cut Limestone Contractors), 683 Atlantic av
 Campbell, P. J. & Sons (Freestone), Southampton cor Reading
 Carew, Jos. F. (Cut Contractor), Gerard & Mass av
 §Charles River Stone Co. (Cut Contractors), Tremont bldg
 Cleveland Stone Co., 166 Devonshire
 Conant, Chas. M., 45 Milk
 Coughlan, F. G. & Sons (Cut Contractors), Albany cor Malden
 Elcock, J. C. & Co., 1291 Dorchester av
 Falt, J. P. & Co. (Dealers), 166 Devonshire
 Harrington, John (Blue Stone), 166 Devonshire
 Maher Bros. (Blue Flagging), 603 Albany
 §Mass. Broken Stone Co. (Broken, etc.), 235 Franklin
 Meany, Edw. F. & Co. (Cut Contractors, Freestone & Limestone), 534 Albany
 §Norcross Bros. Co., 73 Tremont
 Sullivan, Wm. J. (Freestone), (Cut Contractor), 99 Southampton
 Tide Water Broken Stone Co., 2 Kilby
 Troy Bros. & Co. (Soapstone), 975 Mass av meadow Brownstone
 West Roxbury Trap Rock Co. (Crushed & Bldg), W. B. Messer Bros.
CAMBRIDGE—Bertsch, Wm. A., 4 Cambridge
 Ford, Austin & Son (Flagging), 59 Main

Harrington, Jno. Bluestone), 52 1st, E. C.
Horgan, J. J., 87 Main Cp.
McDonald, A. & Son (Flagging), 583 Mt Auburn
Ricker, E. Son & Co.
Sands, Geo. R., 457 Mt. Auburn
Scully, John T., 18 1st
Sweatt & Gould, 234 1st, E. C.
CLINTON—Gibson, Geo. S.
EAST LONGMEADOW—*Archambault, Joseph L. R.
*James & Marra (Light Brown Sandstone)
*Norcross Brownstone Co. (East Longmeadow Brownstone)
*Rankin, J. A. (Cut Contractor)
FALL RIVER—*Beattie, Wm., 33 N Quarry
Draper, Jas. E., 302 New Boston rd
*Wilnot, J. B. (Flagging, etc.), 866 Pleasant
FITCHBURG—Godbeer, Henry
*Litchfield, O. E.
*McCaulliff, F. A.
McCaulliff, Jno.
McNally, Jno.
GLOUCESTER—Kennedy, Patk.
HOLYOKE—Archambault, Joseph L. R.
McCormick, David & Co. (Cut Contractors)
HYANNIS—Nickerson, T. W.
LAWRENCE—Dorman, Jas.
Lawrence Granite Co.
LENOX—*Clifford's, James Sons (Freestone)
LONGMEADOW—(See East Longmeadow)
LOWELL—Bowden & Colmer, 901 Lawrence
Carlson, Gus, 1320 Gorham
*Gumb Bros. (Blue), 1258 Gorham
Wheeler, Chas., 51 Thorndike
LYNN—Ames, G. F. & Co.
Merrill, Geo. B. & Co., 132 Boston
*Shea & Donnelly (Cut Contractors), 28 Harbor
MALDEN—Weathers, Jos.
MIDDLEBORO—Richards, Geo. C.
MILFORD—Kinney, A. C.
*Norcross Bros. Co.
NEW BEDFORD—Foley, Jno.
McCue, Jno.
Hox, Sam'l F. (Cut Contractor)
*Sullivan, Jno. B. & Son, Hathaway rd
NEWBURYPORT—Canning, D. (Cut Contractor)
Littlefield, J. & Son (Cut Contractors)
NORTH ADAMS—Meaney & Walsh
*Whitney Bros., 37 Prospect
PEABODY—Joy, Leander F. (Cut Contractor)
*Linehan, Jas. C.
PITTSFIELD—Kirk & Matthews
Temple Bros.
QUINCY—See Granite Producers & Workers
SALEM—Curtis, Chas. E. & Son
Frankland Marble & Granite Works
O'Rourke Bros.
SPRINGFIELD—Casey & Broderick, 553 State
Cook, Wm. F. Granite Co., 184 State
*Falt, J. P. & Co. (Red Sandstone, Cut Contractors), Armory
*James & Marra (Light Brown Sandstone).
McGregory & Casman, 531 Main 33 Lyman
*James & Marra (Light Brown Sandstone, Cut Contractors), 33 Lyman
Muir, Jas. (Light Brown Sandstone, Cut Contractor), Bay st. av
Short, Chas. J., 40 Dwight.
*Stone, A. D. & Co. (Light Brown Sandstone), 233 Liberty
Wright, A. H. & Son
TAUNTON—Sullivan, John B. & Son
WALTHAM—Waltham Trap Rock Co.
WEBSTER—Love, J. B. (Cut Contractors)
WESTFIELD—Westfield Granite & Marble Co.
*Westfield Marble & Sandstone Co.
WHITINSVILLE—*Blanchard, G. M. (Contractor)
WORCESTER—Bishop, J. W. Co. (Cut Limestone Contractors), 109 Foster
Loughlin & Crowley, 35 Crescent
*Norcross Brownstone Co. (East Longmeadow Brownstone, Cut Contractors)
*Webb Granite & Construction Co. (Cut Contractors)
Wilson, Martin (Brownstone), 174 Prescott

MICHIGAN.

ALPENA—*Fox, Owen (Limestone)
BATTLE CREEK—McNaughton, Angus J.
BAY CITY—Bate, A. & Son (Cut Contractors)
*Bay City Stone Co. (Cut Contractors), 8th
BAY PORT—*Wallace Stone Co. c Water
CHEBOYGAN—Pennell Bros.
DETROIT—Batchelder & Wasmund (Cut Contractors), 70 Atwater, E
Beebe, H. A. (Cut Contractor), 1116 Wabash av
Calvert's, J. Sons (Building), 145 Griswold
Cartwright Bros. (Stone Yard), 767 Jeff'n av.
Christa, Philip & Sons (Steam Stone Works), 506 Lafayette av
Gearing Bros. Co. (Cut Contractors), 1060
*Gibraltar Quarry Co., 80 Griswold 15th
*Griffin, M. J. (Building), 169 Stanton av

Houghten, H. (Crushed & Building), Hammond bldg
Little, C. H. Co. (Building, Crushed), 40 Fort
Meier, H. A. (Cut Contractors), 519 Bellevue av.
Ortman, F. A. & Co. (Cut Contractors, Saw Mills), 1099 Wabash av
Piggins, Wm. S. Sons, Leland & Dequindre
Robertson, R. & Co. (Cut Contractors), Hastings & Piquette av.
Smith, John E. (Cut Contractors), c Forest av. & Dequindre
Stefani, Angelo, 53 Hale
DOWAGIAC—Rutherford, I. (Cut Contractor)
FLINT—Barney Granite & Marble Works
GRAND RAPIDS—Hirth, A. & Co. (Cut Contractors)
Hirth, F. H.
Schmidt, Matthew (Cut Contractors)
GRINDSTONE CITY—*Cleveland Stone Co.
IONA—Anderson Bros.
KALAMAZOO—Hunn, E. T.
Winslow, Edw. L. (Cut Contractors)
LOWELL—Hamilton, Joseph H.
LUDINGTON—Caswell, C. C.
MANISTEE—Forth, W. J.
MARQUETTE—*Portage Entry Quarries Co.
MENOMINEE—Nowack, F. C.
MONROE—Monroe Stone Co. (Crushed)
MUSKEGON—Bauer & Beamer
Kanitz, L. H.
PLAINWELL—Wilson & Mann
PORT HURON—Truesdell Marble & Granite Co.
SAGINAW—Hobson & Co. (Cut Contractors)
Mohr Bros. (Cut Contractors)
ST. JOSEPH—Marshall, Jas.
TRAVERSE CITY—Rickard, A. W.
TRENTON—Mans, N. A.

MINNESOTA.

ADRIAN—Shull, J. & W. C.
BANNING—*Barber Asphalt Paving Co. (Bridge, Curb, Block, etc.)
DULUTH—*Duluth Brown Stone Co. (Brown)
Duluth Crushed Stone Co.
Duluth Monumental Works
*Lake Superior Quarries Co.
JASPER—Jasper Co-Operative Stone Co.
*Rowe & Staples
*Staples, Harry W.
KASOTA—*Babcock & Willcox (Rough, Sawed, Planed & Cut)
*Green Stone Co. (Limestone)
MANKATO—*Fowler & Pay
*Mankato Lime & Stone Co. (Limestone)
Meyer, A. G.
*Widell Co.
MANTORVILLE—Mantorville Stone Co. (Bridge & Heavy Dimension)
MINNEAPOLIS—*Anderson, Andrew P., 15th av & Johnson
*Aaronson, Bengt, 435 Boston Bldg.
Barber Asphalt Paving Co., Security Bldg.
*Blue Limestone Co., 1529 Central av
*Cook Stone Co., 318 3rd av S
Edwards Bros. Cut Stone Co., 6th & Main
Hastings Cut Stone Co. (Cut Contractors), Main c 6th av, S E
Jones & Hartley (Cut Contractors), 829 S. 17th av
*Kettle River Quarries Co. (Building, Bridge, Paving, etc.)
*Minneapolis Stone Co. (C. F. Haglin & H. N. Leighton Co., Props.), Fillmore & 16th av, N E
*Minnesota Crushed Stone Co., 15th av c Johnson
Northwestern Cut Stone Co. (Cut Stone)
*Port Wing Quarries Co. ("Port Wing" Brownstone)
Trainor Bros. (Cut Contractors), Boston blk
*Wunder, John Co. Lumber Exchange
RED WING—*Lillybald, Gust. (Limestone)
ST. CLOUD—Benzil & Campbell (Cut Contractors)
Erickson, Aug. & Co. (Cut Contractors)
*Graham, Robert
*Granite City Granite Co.
*Holes Bros.
*Johnson & Barwick
Jones Bros.
*Noren, L. E. & Son
*St. Cloud Granite Works
*Simmers & Campbell
ST. PAUL—*Bielenberg, Chas., Robert & George
*Breen Stone Co. (St. Cloud & Kasota Dressed & Undressed), Germania Life bldg
Dana Warehouse Co. (Building Stone), 1871 University av
*Haeb & Marotzke, Goff av & Rohle
Hoy, Wm. J., Cham. of Commerce bldg
*Larson, John, ft Purnell av
Lauer Bros. (Contractors), ft of Chestnut
Lauer, Jacob (Cut Contractors), 252 Erie
*Steinmetz, Jno., Oneida nr Grace

*Ulmer, Wm. H. (Cut Contractor), ft of Chestnut
*Woldt, Carl (Limestone), Webster & St. Clair
Young, C. H. Co. (Cut Contractors), 653 Rice
Young, Jas. A. & Sons (Cut Contractors), SANDSTONE—Hanson, Erick 64 W 7th
*Kettle River Quarries Co. (Building, Bridge, Paving, etc.)
WINONA—*Besanz Stone So. (Cut & Rough)
*Winona Stone Co.

MISSOURI.

BETHANY—Kenyon, J. W.
BOONEVILLE—Moore, R. L. & Son (Cut Contractors)
BROOKFIELD—Kent, J. V.
BUTLER—*Day, T. J.
CARTHAGE—Bolle, N. E., Cut Stone & Contr'g
Carthage Building Stone Co.
*Carthage Marble & White Lime Co. (Limestone & Saw Mill)
*Carthage Monumental Stone Quarry Co.
*Carthage Quarry Co. (Limestone & Saw Mill)
*Carthage Stone Co. (Limestone & Saw Mill)
*Carthage Superior Limestone Co. (Cut Contractors)
*Missouri Stone & Construction Co.
*Myers Stone Co.
*Southwest Cut Stone Co.
*Spring River Stone Co.
COLUMBIA—Farley, E.
DE SOTO—Herman, Otto (Cut)
DE WITT—*Carroll County Sandstone Co.
FARMINGTON—Spaugh, Mrs. E. L.
FULTON—Dunkleburg, E.
HANNIBAL—*Hannibal Lime Co. (White Limestone)
JEFFERSON CITY—Vetter, Frank J.
Zuber, Victor
JOPLIN—*Myers Stone Co. (Building & Cut Stone)
KANSAS CITY—Bremer Cut Stone Co. (Cut Contractors), 23d & Central
Carthage Stone Yard
Forrester Bros. Stone Co. (Cut Contractors), 24th & B'way
Lyle Rock Co.
Missouri Crystal Stone Co.
Phelps Stone & Supply Co.
Phenix Stone & Lime Co. (Cut Contractors), 1901 Olive
Sutermeister, Arnold Stone Co. (Cut Contractor)
LOUISIANA—*Crystal Carbonite Lime Co. (Rip ray, etc.)
ST. JOSEPH—Abercrombie Stone Co. (Building)
Maier, Sebastian, 11th & Garfield av
*Pfeiffer Stone Co. (Cut Contractors)
Schall, Chas., 1405 Frederick av
ST. LOUIS—*Algonite Stone Mfg. Co., 701 S. 21st
*Atlantic Quarry & Const. Co., 319 N 4th
*Bambrick Bros. Construction Co., 5229 St. Louis
*Brockschmitt, Edward, 6533 Manchester av
*Carthage Marble & White Lime Co. (General Dealers), Walnwright bldg
Carthage Stone Co. (Cut Contractors), c Theresa av & Gratiot
*Columbia Quarry Co., 122 N. 7th
*Eyerhmann, G. Jr. & Bro., 1216 S Grand av
*Fruin-Bambrick Construction Co., 721 Olive
*Grafton Quarry Co. (Sandstone), 205 N. 8th
*Gruetzsmacher, Henry F. & Co. (Cut Contractors), Walnwright bldg
*Hanick Quarry & Constr. Co., Liggett bldg
*Heman Construction Co., Fullerton bldg
*Hill-O'Mear Const. Co. (Limestone), 915 Olive
Hoboy & Co. (Cut Contractors), Shreve & Sacramento avs
*Hoffman-Hogan Constr. Co., 2712 Wyandotte
Lohrum Quarry & Constr. Co., ft. Osceola
*Meramec Quarry Co., 101 Barton
Milne & Gordon, Jeff'n av & Mo. Pac. Ry.
*Perkinson Bros. Construction Co., 3237 Carter av
Pickel, Geo. & Sons (Cut Contractors), 2015 Gratiot
Pickel Stone Co. (Sawing & Cutting), 1320 Old Manchester rd
Reltz & Bro., 4500 Chouteau av
Ruecking Construction Co., Marine av nr Gasconade
St. Louis Cut Stone Co. (Sawing & Cutting), 3537 Gratiot
Sinclair Quarry & Constr. Co., Walnwright bldg
Skrainka Construction Co. (Limestone), 319 N 4th
Stolle Stone Co., 5127 Cabanne av
Thym Cut Stone Co. (Cut Stone), 1316 Dol
Voss & Korte, 2346 Palm man

Wall Bros., 2707 Arlington av.
Widdicombe, E. H. (Cut Contractor), 816
WARRENBURG—*Pickel, Benjamin Olive

MONTANA.

BUTTE—Walker, E. E.
HELENA—Prescott, A. K. (Cut Contractor)
Smith, O. F.

NEBRASKA.

BLUE SPRINGS—*Davis, Geo. (Crushed, etc.)
GRAND ISLAND—Palme Granite & Marble Co.
Scheffel, William
LINCOLN—Barwick, J. S.
Forbarger Co. (Cut Contractors)
Speldell, C. E. & Son
Young, R. S. Building Supply Co. (Dealers)
OMAHA—Bloom, J. F. & Co.
*Murphy, Hugh (Red Sand), Bee bldg
Nebraska Stone Co. (Cut Contractors)
Schall, A. Co. (Cut Contractors)

NEW HAMPSHIRE.

CLAREMONT—Messer, Richard (Cut Contractor)
CONCORD—(See Granite Producers, Workers &
DOVER—*Abbott, Samuel B. Dealers)
MANCHESTER—(See Granite Producers, Work-
ers & Dealers)
MILFORD—(See Granite Producers, Workers &
Dealers)
NASHUA—Cumplings, Chas. E. & Son
Fuller, T. D.
Mulvanity, Thomas
ROCHESTER—Smalley, Hobbs & Hunter
WEST CONCORD—(See Concord Granite Pro-
ducers, Workers & Dealers)

NEW JERSEY.

ASBURY PARK—Rothfritz, R. E. K. (Blue)
ATLANTIC CITY—Balestrieri, R. & Co. (Cut
Contractors)
New Jersey Stone Co. (Cut Contractors)
BAYONNE—Brady, Jas. Sons Co.
BRIDGETON—Applegate Marble Co.
Ogden & Platt
Shaw, Wm. R.
BURLINGTON—Rigg, Edw., Jr.
CALIFON—*Califon Limestone Co.
CAMDEN—McWhirter, W. H. (Cut Contractor)
ELIZABETH—Clark, A. L. Stone Co. (Blue)
McGhee, Geo. & Son
Marron Bros.
ENGLEWOOD—Thompson, Jos. & Son (Cut
Contractors)
HACKENSACK—Long, F. R. Co.
Mable, Elmer
Morlarity Bros.
HARRISON—Harper, David (Blue)
Spurr, J. J. & Sons (Cut Contractors)
HOBOKEN—Barr, Thaw & Frazer (Cut Con-
tractors), 13th & Adams
Birch, Thos. E. (Blue), Willow av nr 16th
Conch, Thos., 15th & Grand
HOPEWELL—*Cope, J. S.
JERSEY CITY—Mulrhead, Robt. (Blue), 1st &
Provost
Prigge, Henry, 550 Germania av
Shanley, J. F. Co. (Heavy Masonry), 26
Exchange pl
Standard Blue Stone Co., 141 1st
Union Stone Co. (Blue, etc.), 256 Brun-
swick
KEARNY—Van Keuren & Son, of Jersey City
(Crushed, etc.)
LONG BRANCH—Clark & Whalen
MATAWAN—Lupton Bros. (Monumental &
Flag)
MILLVILLE—Cory, Charles F.
MONTCLAIR—Espy, Jno.
Wood, Thomas (Blue, etc.)
MORRISTOWN—Dalrymple-Hastings Co. (Cut
Ennis, C. W. & Co. (Blue, etc.) Stone)
Morris County Crushed Stone Co.
Shinson, George (Cut Contractor)
NEWARK—Boyle, Thos. & Co. (Cut Contract-
ors), 174 Riverside av
Brown, Geo. & Co. (Brown Stone, Cut
Contractors), 270 Passaic
Brown & Rusling Co. (Blue Stone), 255
Fabyan pl
Carr & Ball (Cut Contractors), 111 Pas-
saic av, Harrison
Cook & Genung Co., 16 Jersey
Gerberich, Bernard, 180 Ridge
Hoerner, H. J. & Sons (Cut Contractors).
Kisling, Edw. J., 184 Elm 1st av
Monaghan Stone Co., Plum Point rd
*Newark Blue Stone Co. (Blue), 120 Pas-
saic
Powers & McGowan (Cut Contractors), 470
S Orange av
Reilly, Jno. E. Stone Co., 10 Riverside av

Sayre, Marcus Co., Centre St Bridge
Schreltmueller, Henry (Cut Contractor),
184 Waverly av,
*Shanley's B. M. Sons Co. (Heavy Masonry),
325 Badger av
Tomkins Bros. (Crushed), 78 Passaic
Whitman, Jno. (Curbing, Flagging, etc.),
157 Sumner av
Woodward, A. H. & Co. (Blue and Cut),
120 Passaic
Young, R. & Son, 9 Grafton av
NEW BRUNSWICK—Cole, Thos. C. (Cut Con-
tractor)
Mooney, Hugh J.
ORANGE—*Spottswoode-Cusack Co.
PATERSON—McKlerman & Bergin (Crushed,
Paving & Building), 1st Nat'l Bank bldg
PERTH AMBOY—Wilbert, Charles E. (Blue)
PLAINFIELD—Bartle, Wm. E. (Building)
Lannon, John (Blue)
Manning, L. L. & Son
Smalley, N. B. & Co. (Crushed)
POMPTON—*BROWN, HERBERT L.
Co. (Granite, Marble & Limestone). (See
adv. Index, end of book)
RIDGEFIELD—*Helsenbottle, C. (White,
Foundation & Building Stone)
ROCKY HILL—*Delaware River Quarry &
Const. Co. (Crushed & Paving Blocks)
SCOTCH PLAINS—*Fanwood Stone Crushing
& Quarry Co. (Crushed Stone)
SOMERVILLE—Sargeant Bros. (Flagging)
STOCKTON—*Eastburn, Chas. T. & Co.
*Twining, S. B. & Co.
SWEDESBORO—Hannold, W. H. & Sons
TOWN OF UNION—(See Weehawken)
TRENTON—Epple, F. J. (Blue), 430 Perry
Hutchinson, T. A., Brenning av nr Mead
McDonald, Alex. Co., 862 Centre
Prior & Brock (Cut Contractors).
*Richardson, Jos. B. & Sons (Dealers),
120 S Stockton
Richardson, Percy B., 26 Commerce
Swayze, H. M. & Son, 26 S Stockton
VINELAND—Kimball & Prince Lumber Co.
WEST ORANGE—*O'Rourke, John
WOODBURY—Snelbaker Bros.

NEW YORK.

ALBANY—Brooksby, Charles (Cut Contractor)
245 Hudson av
Flagler & Vedder (Cut Contractors)
Flint Granite Co.
Gazley & Moffitt, 503 S Pearl
Little & Bransfield, Bridge c Mill
Nolan & Donnelly (Cut Stone), 4th av &
Church
Ross, Adam & Son (Cut Contractor), Bway
Zelzer, Jno., 525 S Pearl & Shaker Mill
ALBION—Alhlon Sand, Gravel & Stone Co.
*Fancher, Edward F.
*Orleans County Quarry Co.
*Reed, Allen & Reed
*Ryan, M. A.
ALLABEN—Ulster & Delaware Bluestone Co.
AMSTERDAM—Hennessey, Wm. B.
AUBURN—*Goodrich, C. E.
Robinson Monument Co.
BIGELOW—*Williams, Chas. & Co. (Lime-
stone & Flax)
BINGHAMTON—Ingalls Stone Co. (Cut Con-
tractors, Steam Cut Stone Works)
Lander, Isaac & Son
BROOKLYN—(See New York City, Borough of
Brooklyn)
BUFFALO—*Appenheimer, Jno. L., Fillmore &
Appenheimer avs
Ball & Wittig (Cut & Flagging), North c
Ellcott
*Buffalo Cement Co. (Ltd.) (Building, Di-
mensions & Cut), 110 Franklin
*Buffalo Crushed Stone Co. (Crushed, Bal-
last Stone, etc.), Ellcott sq
Carroll Bros. (Blue, etc.), 490 Ellcott sq
Delin, C. c Louisiana & Perry
Empire Limestone Co., 4th & Virginia
Frontier Ice & Stone Co., 1903 Fillmore av
*Gibres, Anna, 1968 Fillmore av
Kehr, A. P. (Cut Stone & Flagging), ft
Church
*McDonnell & Sons (Cut Contractors), 858
Main
Maltby, Geo. W. & Sons (Cut & Flagging),
21 Maryland
Queen City Cut Stone Co., 94 Goodrich
Reeb, M. A., 599 Michigan
Rupp, John J., 2135 Fillmore av
*Schreier, Sebastian, 1855 Fillmore av
Star Cut Stone Co., 215 Oak
CALLICOON—Dearling, John
*Persbacher, Val.
CATSKILL—*Holdridge, Geo. W. & Son
CHAUMONT—*Adams & Duford Co.
COEYMANS—*Briggs, Jno. W.
CORTLAND—Reers & Warfield
DOBBS FERRY—Besson & Co.

DUNKIRK—Atlas Builders Supply Co.
EAST AURORA—Griggs & Ball (Flagging)
ELMIRA—Allen, Chas. A. (Cut Contractor)
*Costello & Neagle (Limestone)
Yenger, B. (Cut Contractor), E Church
EVERGREEN—(See New York City, Borough of
FISH EDDY—Novins, Jas. & Sons
FORT PLAIN—Selwood, Frank J.
FREDONIA—*Forbes, Geo.
GLENS FALLS—Finch, Pruyn & Co. (Dealers)
McHugh Bros.
Thomas, Andw.
GLOVERSVILLE—Adirondack Stone Co.
Hunter & Son
Starr, Z. B. (Cut, etc.)
GOUVERNEUR—Gouverneur Marble Co.
Northern Crushed Stone Co. (Crushed)
GRANVILLE—*O'Brien Bros.
GREEN ISLAND—Kelly, E. & Co.
HALE EDDY—*Begel, Grant
Travis & Kingsbury (Blue stone)
HANCOCK—*Kirkpatrick Bros.
*Randall, W. I.
HANKINS—*Manny, Anthony & Co. (Blue)
HIGHLAND FALLS—Muller Bros. (Blue)
HOLLEY—*Farrand, Wm. H.
*O'Brien & Co.
HONEYE FALLS—Harris, Dennis
Hart, Frank J.
HOOSICK FALLS—Hoeter Bros.
HORNELL—Babcock, W. W. & Co.
HUDSON—Hocter & Son
HULBURTON—*Ford, A. B.
*Jones & Co.
*Squires, A. J.
*Vincent, Edward & Co.
HUNTINGTON—Lockwood, Everett
ITHACA—Storms, J. B.
JAMESTOWN—*Jamestown Shale Paving Brick
Pearl City Stone Co. (Cut Stone) Co.
KINGSTON—Hudson River Blue Stone Co.
Kent, W. J. (Blue)
LE ROY—*Helmlech, John
Keeney, N. B. & Son
LOCKPORT—Bendinger, John
Bendluger, L.
Crowe, Michael J. (Building)
Stahthorpe, C. N. & Co. (Building)
*Whitmore, C. B. Co. (Sandstone)
LONG EDDY—Fritz, Jno. & Son (Bluestone)
*Kenny Bros.
*Peak, Cyrus (Bluestone)
LONG ISLAND CITY—(See New York City,
Borough of Queens)
MAMARONECK—Brewer, R. G. (Flagging)
Moffat, L. (Blue)
MECHANICSVILLE—Hoskins, C. E. (Flagging
etc.)
MEDINA—*Horan, Jno.
MIDDLETOWN—Wagar, David P. (Blue)
MOUNT KISCO—Gorham, D. F.
MOUNT VERNON—Smith, Samuel F.
NARROWSBURG—*Partridge, Jere (Blue-
stone)
NEW BALTIMORE—Fuller, W. D.
*McCabe, Edward
NEW BRIGHTON—(See New York City, Bor-
ough of Richmond)
NEWBURGH—Crawford, Wm. (Est. of) (Lendu,
Blue & Free Stone), 22 Lauder
Dwyer, M. J. (Blue & Flagging)
Forson & Ross
Fletcher, Wm. F. (Cut Contractor)
*Harrison, John J. E. (Dimension)
*Miller, D. C. (Crushed & Building)
Miller, Geo. W.
NEW PALTZ—*Hasbrink, J. J. & Co. (Buhr
Stones)
NEW ROCHELLE—Mahsted, J. A. Lumber &
Coal Co.
New Rochelle Coal & Lumber Co. (Flagging,
etc.)

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Balrd, A. D. & Co. (Cut Con-
tractors) Wythe av c Keap
Brownsville Cut Stone Co. (Brown), 208
Bristol
Balrd, Andrew R. (North River Blue
Stone), Wythe av & Hooper
Burns, John & Son (Blue), 186 6th
Candee, Fred'k R. (Blue), Hamilton av
& 15th
Christman, Theo. G. (Cut Contractor), 27
Heyward
Clark, Edw. Blue Stone Co., c 4th av & 2d
Cohn Cut Stone Co. (Cut Contractors),
Rockaway av & Damont av
Currau Bros. & Murphy (Cut Contractors),
Douglas st & 4th av
Dean, Thos. & Co. (Cut Contractors), 141 3d
Donaldson, James (Free), 70 9th
East N. Y. Cut Stone Co. (Brown), Blske
& Rockaway avs

Gabriel, Wm. (Brown), 109 Knickerbocker
Gold & Taylor (Cut Contractors), 3rd av
Harnden, James H. Co. (Blue), 991 Grand
Harrington, Michael J. (Blue), 41 Heyward
Heinlein, John Cut Stone Co. (Cut Con-
tractor), 555 President
Johnson, Patrick J. (Blue), 341 Butler
McLareu, Jas. & Son (Cut Contractors),
Court & Bay
Moran, John W. (Est. of) (Blue), Hamiltou
av & Hicks
Mouter, Geo. (Cut Contractors), 21 Varica
av
O'Brien & Chambers (Blue), 347 Columbia
Parker, Thos. Co. (Cut Contractor), 1259
Flushing av
Putnam, W. K. Co. (Blue), 5123 3d av
Rankin & Ross (Cut Contractors), 372 Car-
roll
Reilly, Thomas (Indiana), Montauk & At-
lantia avs
Ross, Wm. S. (Cut Contractor), 254 Doug-
Ryan, N. Co. (Blue), 491 Smith
Schmitt & Hohman (Cut Stone), 53 Ir-
Starr, James (Blue), 174 9th ling av
Steinberg, I., 598 Rockaway av
Sussinau Bros. (Brown), 354 Himrod
Thompson & Pilzer (Free), Watkins &
Lott
Trudden, M. (Blue), Van Sindren av

Boroughs of Manhattan & Bronx.

NEW YORK—Acra Blue Stone Co., 6 Harri-
son
Algie, R. J. (Crushed Stone), 9 W 67th
Altieri, M. & Sons, 468 Concord av
Annett & McConnell (Stone Yard), 6 W
14th
***BEDFORD QUARRIES CO. (Blue & Buff, Oolitic, Ind., Limestone), 1 Madison av. Quarries & Mills: Oolitic, Ind. (See adv. on front cover)**
Bellows, Chas. H., Cut Stone Co., 503 E
Best, Jno. (Blue), 418 E 92d 115th
Borough Cut Stone Co., Walnut av &
142d
Bradley, Wm., & Son (Cut Stone), 90 West
Brohmer Bros. (Cut Stone), Unionport
Bronx Granite & Blue Stone Co., Rider
av & 140th
Brown, Geo., & Co. (Cut), 1123 B'way
Brown & Pirie (Cut Contractors), 135th &
Canal pl
***BROWN, HERBERT L. CO.**
(Granite, Marble & Limestone), 26th &
5th av. (See adv. index, end of book)
Builders' Stone Contracting Co. (Brown,
etc.), Unionport
Cardo, V., & Son (Stone Yard), Cypress
av & 132d
Carlucci Stone Works (Indiana), 135th &
Canal pl
Cleveland Stone Co. (Sandstone), 285 Front
***Clinton Point Stone Co. (Crushed Stone, etc.), 115 B'way**
Cohen, Michael & Co. (Freestone, etc.),
1133 B'way
Conlon, Jas. W. (Blue Stone), Av A &
65th
Cosgrove Bros. (Cut Contractors), 610 W
57th
Coogan, Wm. (Blue), 4775 Park av
Cullen, Jno., & Co. (Cut & Free Con-
tractors), 333 E 107th
Devoy, Wm. R. (Blue), 532 W 44th
Dix, Chas. H. (Freestone), 60 Wall
Deposit Stone Co. (Blue), 280 B'way
Dillzla, R., & Co. (Stone Works), 2663
Decatur av
Doyle, Geo. & Co. (Indiana Limestone),
287 4th av
Dunn, Bartholomew (Blue Stone Contrac-
tor), 444 E 68th
Dunn, Thos. (Blue Stone), 428 E 68th
Erle Blue Stone Association, 280 B'way
Ferguson, Chas. H. (Crushed Stone),
30 Church
Ferguson, J. B. (Cut Stone), Ittner pl &
Webster av
Finney, C. H., & Sons (Stone Contrac-
tors), 139 W 53rd
Fisher, R. C. Co. (Cut Contractors), 139th
& Locust av
FLEMING & CO., 253 B'way. (See adv. index, end of book)
Flogaus, G. M., & Co. (Blue Stone), 245
E 138th
Foland, Peter (Blue), E 135th, nr Park
av

Gentile, Michael E. (Blue Stone), 140th &
Rider av
Gill, W. H. & Co. (Blue Stone), 1 Mad-
ison av
Gillings, Peter C. (Blue Stone), 733 E
219th
Getter, Fred (Broken Stone), 2384
B'way
Halloran & Nevins, 638 W 51st
Hanlein, Henry, & Son (Cut Contrac-
tors), 417 E 103d
Henry, M. C., & Co. (Steam Stone
Works, Brown & Indiana Stone Cut
Contractors), 403 E 104th
Hudson River Blue Stone Co. (Blue
Stone, Wholesale), 50 Church
Hutchinson, John, & Son (Cut Contrac-
tors), 2383 1st av
***Kirkpatrick Bros. (Blue Stone, Whole-
sale), 258 B'way**
Killingbeck & Co. (Cut Stone), ft of E
106th
Larocca, T., Costanzo, F., & Co., 2393
Arthur av & 187th
La Spina-Morris Cut Stone Co. (Cut Stone),
ft E 108th
Lenahan, Bernard J., 293 Rider av
**LEOPOLD, J. & CO. (Crushed
Stone, Granite, etc.), 18 B'way. (See
adv. index, end of book)**
Liddle, John, Cut Stone Co. (Cut Con-
tractors), 402 E 107th
Lockwood, Alexander (Blue Stone), 637
W 130th
Lockwood, David T. (Blue Stone), 280
B'way
Lodge, Martin P. (Blue, Contractor), 532
W 44th
McCarthy, J., & Co. (Stone Yard), 640 W
51st
Manne, A. Co. (Blue Stone), 280 B'way
Marine, Arlando (Wholesale Dealers in
Blue Stone), 7 E 42d
***Maxwell's, Jno., Son (Blue Stone,
Wholesale), 51 Chambers**
Meyers, Augustus (Cut Blue), 542 W 21st
Miller, David (Stone Works), 315 E 103d
Moran, D. W. (Blue Stone), 562 Burn-
side av
Nevins, Edw. J. (Blue Stone)
New York Cut Stone Co. (Cut Contractors)
Avenue A & 68th
Norcross Bros. Co., 160 5th av. (Quarry-
men and General Contractors in Granite,
Marble & Stone; Large Structures a Spe-
cialty)
O'Connell, Michael (Blue Stone Contractor),
537 W 40th
**OHIO QUARRIES CO. (Blue & Buff,
Ohio Sandstone, Sawed Stone a Spe-
cialty), 1 Madison av, Quarries & Mills,
Amherst, Ohio**
Pagano, Jerome & Co. (Blue Stone), 444
E 104th
Penney & Bunt (Stone Yard), 132d &
Willow av
Perry-Matthews-Buskirk Stone Co., 200
5th av
**PICTON ISLAND RED GRANITE
Co. (Pink & Red Granite), 320 5th av.
(See adv. index, end of book)**
Rutledge, James (Blue Stone), 532 W 44th
Seully, Jno. H. (Bluestone Contractor), 431
E 101st
Seus, Rudolf (Cut Contractor), 406 E 109th
Sherwood, G. P. & Co. (Wholesale Deal-
ers, All Kinds), 1123 B'way
***Sinclair, Jas., & Co. (Cut Contractors),
413 E 29th**
Smith, Clarence P., 421 E 103d
Smith's, Jno. R. Son (Cut Contractor), 421
E 103rd
Stockinger, Jacob (Blue), 332 E 64th
Sweeney, Peter B. (Blue), 206 B'way
Symmers, Jno. H. (Cut Stone), Brook
av & 107th
Tompkins-Kiel Marble Co., 505 5th av
Underwood, C. R. (Blue), 280 B'way
Valro, George (Blue Stone), 608 Wales av
Valentine, V. & Co. (Cut Stone), Walnut
av & 142nd
Vesey, Jno. (Blue Contractor), 1121 1st
av
Williams, B. A. & G. N. (Cut Contrac-
tors), 68th & Ave A
Woodward, C. F. Co. (Brownstone & Lime-
stone), 1123 B'way
Woody, Howard L. (Freestone), 287 4th av
Young, Jas. H. Stone Co. (Cut Contractors),
E 136th & Locust av

Borough of Queens.

EVERGREEN—Evergreen Steam Stone Works
(Breitenbach & Ruppenstein, Props.)

FAR ROCKAWAY—Mills, Elmer D. (Cut Con-
tractor)
FLUSHING—Styles & Doughty
LONG ISLAND CITY—Beasley, Fitzpatrick
Co. (Blue Stone)
Bradley, Wm. & Son (Cut Contractors),
Vernon av
Brown, Geo. & Co. (Cut Stone)
Call, Geo. & Co. (Cut Contractors)
Dolan, James (Blue Stone)
Gilles, Jas. & Sons (Cut Contractors)
Horn, Michael Co. (Blue Stone)
Jackson-McGlade & Co. (Cut Stone)
McWhirter, W. H. Co. (Cut Contractors)
Miller's, Edwin, Sons (Cut Contractors),
Boulevard & Bodine
Morrison, David G. (Cut Contractor), 373
Vernon av
Reilly & Whalen (Blue), 74 Celtic av
Shuttlesworth, Edwin, Co. (Cut Contrac-
tors), Graham av & E R, Astoria
Williams, B. A. & G. N. (Cut Contrac-
tors), Mill & Orchard, Astoria
METROPOLITAN—Seltz, Jacob (Free Brown
Werner Bros. (Freestone) Stone)

Borough of Richmond.

NEW BRIGHTON—Hart, P. & Sons
(End of New York City)
NYACK—Nyack Trap Rock Co. (Sand, Gravel,
Trap Rock & Broken Stone)
OLEAN—Foley Bros. Co.
ONEONTA—Dauley & Wright
*Ingalls Stone Co.
PATCHOGUE—Bailey, E. & Sons
PHOENICIA—McGrath, Jno. L. (Blue Stone)
PORTAGEVILLE—*Portageville Blue Stone
Co.
PORT CHESTER—Kladder, J. W. & Co.
Merritt, H. A.
Ryan, W. Co. (Bluestone)
PORT JERVIS—Bennett, Jno. E.
Nearpass, Wm. J.
POTSDAM—*Potsdam Red Sandstone Co.
Watson & Seager (Sandstone)
POUGHKEEPSIE—Joy, Walter A.
Seamon, Thomas H. (Blue Stone)
ROCHESTER—Brayer & Albough, Sherman &
Bauer
Carson, Wm. & C. H. (Cut Contractors),
54 Plymouth av
*Foery & Kastner, N Goodman & Central
Park
Lauer, Fred C. & Sons, 458 S Clinton av
Oliver, H. T. (Cut Contractor), 328 South av
*Whitmore, Rauber & Vleinius (Cut Con-
tractors), Goodman opp Central pk
ROCK GLEN—*Bluestone Co.
ROCKLAND LAKE—Clinton Point Stone Co.
Rockland Lake Trap Rock Co.
RONDOUT—(See Kingston)
ROSCOE—Lupton, N. L. (Est. of) (Blue
Reynolds, W. J. (Blue Stone) Stone)
*Shaw, Herbert
SAUGERTIES—Maxwell's, Jno. Sons (Blue)
SCHENECTADY—Crane-Vedeer Co.
Kellam & Shaffer (Cut Contractors)
Kinum, Andrew
SCHOHARIE—*Mix, Frank G. (Blue & Gray
Limestone)
SODUS CENTER—*Mather, E. B. (Crushed)
SYRACUSE—Arnold, Conrad, 903 Montgomery
Britton, Israel E. (Building & Flagging),
186 E Brighton av
*Canal Quarry Co. (Crushed, Dimension,
Building & Gray Limestone)
Crabtree, Jno. & Son (Cut Contractors &
Flagging), 417 Burt
Nies, Adam F. (Flagging Yard), 337 W
Jefferson
*Orleans Sand Stone Co., 438 S Salina
Thomas, Chas., 1103 S State
CARRYTOWN—Dinkel & Jewell Co. (Blue &
Sackett, S. J. (Est.) Building)
TOMKINS COVE—Tomkins Cove Stone Co.
TROY—Graut, Chas. M. (Freestone), c Cemetery
7th avs
Lee, Jas. F. (Cut & Blue), Smith av nr
Young, Wm. H., Jr., 330 8th River
Young's Sons & Co., 177 3d
TRUMANSBURG—*O'Hara, Peter
TUSTEN—Clark, Michael T. (Blue)
Hankins, W. H. (Blue)
UTICA—Conley, F. E. Stone Co. (Blue &
Crushed)
Fuller's Electric Cut Stone Works, Sunset av
McNierney Bros. (Flagging & Cut Contrac-
tors), 38 Erie
Utica Stone & Construction Co.
VERILANCK—*Clinton Point Stone Co.
VOORHEESVILLE—*Cummings Bros. (Blue)
WALTON—Shaw, Herbert (Blue Stone)

WARSAW—§American Blue Stone Co.
*Portageville Blue Stone Co.
§Warsaw Blue Stone Co.
WATERLOO—§Thomas, G. C. & Bros.
WATERLIET—Hugban, Jas. E. (Cnt Con-
tractor)
WATKINS—Hoare, Geo. E. & Co.
YONKERS—Corkery, Jno. J. (Blue), 169 Rly-
erdaile av
Kehlock, Campbell & Kellock (Blue), ft of
Ashburton av

NORTH CAROLINA.

ASHEVILLE—*Balfour Quarry Co.
CHARLOTTE—Durham, I. W.
Ward, W. W. & Co. (Dealers)
GREYSTONE—*Linehan, P. & Sons (Cut
Contractors)
HICKORY—Elliott, Jos. D.
MOUNT AIRY—Granite City Cut Stone Co.
SALISBURY—Carolina Marble & Granite Co.
SANFORD—Carrington & Gonella Stone Co.
WILMINGTON—§Tucker, H. A. & Bro. (Cut
Contractors)
WINSTON SALEM—§Bennett Bros.
§McGallard Granite Co. (Stone Cutters)

OHIO.

AKRON—Akron Supply Co. (Dealers)
Crisp, Geo. & Son (Building, etc.)
Schuler, Chas. & Son
ALLIANCE—Devine, J. C.
Hudson, C. E. (Flagging, etc.)
Tullis, Ira & Son (Flagging)
**AMHERST—OHIO QUARRIES CO. (Buff
& Blue Ohio Sandstone, Sawed Stone a
Specialty)**
ASHTABULA—Robinson, M. C. & Co.
Smith, Wm. & Son
BEACH CITY—*Winfield Bros. & Co.
BELLEFONTAINE—§Bellefontaine Stone &
Lime Co. (Crushed, Ballast, etc.)
Patterson, W. T.
BELLEVUE—*Bellevue Stone Co. (Crushed)
BEREA—Bluffton Stone Co.
*Middleburg Stone Co. Office, Elyria, O.
BERLIN HEIGHTS—§Baillie Stone Co.
BLOOMVILLE—*France Co.
BLUESTONE—*Maxwell-Rolf Stone Co.
Newcomb, W. B. (Sandstone)
BLUFFTON—*Buckeye Stone Co.
Siddall, L. J.
CAMBRIDGE—Pyles, Thos. (Flagging)
CANTON—Bauhof Bros.
Lang, E. D.
CAREY—*National Lime & Stone Co. (Crushed,
etc.)
CINCINNATI—Agness, Jas. W., Builders' &
Traders' Exch
§Bauer, Jno. G., Quebec rd nr Liberty
Bloomington-Bedford Stone Co. (Indiana
Oolitic Limestone), Groton bldg
§Buckeye Marble & Freestone Co. (Cut
Contractors), 3d & Eggleston av
Buente, Louis C. (Stone Yard), 3664 Spring
Grove
§Buetsche Bros., Wine Press rd nr Tuscu-
Caden, Otto, Mitchell bldg.
Contractors' Stone & Gravel Co., Builders'
& Traders' Exch
Dayton Limestone Co. (White Limestone),
15 E 3rd
Donnelly & Dovey Const. Co., Union Trust
bldg
Enterprise Stone & Granite Co., Reading
rd
Graveson, Wm., Symmes nr Montgy rd
Gray, E. F., Grand Opera House bldg
Hall, Thos. J., ft Vine
§Hillsboro Stone Co., Bldrs' & Traders' Ex
Holley, C. E. (Freestone & Sandstone),
Johnston bldg
Hnmmei, David Building Co. (Cut Contrac-
tors), 2629 Spring Grove av
*Junlet, Louis & Bernard, 2034 Baltimore
av
§Kemper, Joseph, Purcell av n Murdock av
*Kentucky Freestone Co. (Inc.) (Blue, Buff
Olive Rockcastle Stone), 2629 Spring
Grove av, Mills: Langford, Ky.
§Kentucky-Rockcastle Stone Co., Bldrs' &
Traders' Ex
Lang, C. & Co. (Cut Contractors), Wood-
ward & Spring
McClure, T. F. & Sons Co. (Dealers), 43
Perin bldg
*McDermott Stone Co., Bldrs' & Traders'
Exch
McDonald, Charles (Cut Contractor), 1223
Poplar
Mersch's, Frank Sons, 1548 Freeman av
Miami Stone & Gravel Co., Builders' &
Traders' Exch
Moore-Coney Co. (Limestone), Union
Trust bldg

Nagele, Anton, 2168 Western av
**Pielage, Henry & Co. (Freestone & Lime-
stone), 1014 Flint**
Raff, Allan Ross, Mitchell Bldg
**Ridgway, J. B. (Indiana Flat Rock), Grand
Opera House bldg**
*Rockcastle Stone Co. (Blue, Buff & Grey),
414 E 8th
§St. Paul Stone Quarries Co., Union Trust
bldg
*Stagge, Hy. & Sons, Madison rd n Beech-
wood av
*Thomas, Warren, Bodley av n Mt. Hope av
*Wagner Bros., Union Trust Bldg
Ware, J. R. & Sons, 19 E Water
World's Fair Wrecking Co. (Freestone, etc.),
Richmond & Horne
CLEVELAND—*Amherst Quarries Co., The
Arcade
**BEDFORD QUARRIES CO. (Blue
& Buff Oolitic Ind. Limestone), 818 Euclid
av. Quarries & Mills Oolitic, Ind. (See
adv. on Front Cover)**
Blum & Delbridge (Cut Contractors), Bit-
tern av & E 73rd
Brook, John & Son (Cut Contractors),
2169 E 28th
§Caine Stone Co. (Sandstone), Warner rd
& C & P Ry
Carabelli, Jos. (Contractor), Euclid av opp
Lake View Cemetery
§Cleveland Stone Co. (Sandstone, Blue,
Buff, etc.), Hickox Bldg
*Columbia Stone Co. of Cleveland (Sand-
stone), Soc. for Sav. bldg
Elyria Stone Co., Columbus rd & French
§Euclid Stone Co., Garfield bldg
Holland, John, The Arcade
Holran Stone & Lime Co., Rockefeller bldg
§Malone Stone Co. (Sandstone, Blue, Buff,
etc.), Garfield bldg
§Maxwell-Rolf Stone Co., Arcade bldg
Neff, Harry A., 2083 E. 105th, S. E.
Newcomb, W. B., 40 Lockwood, E. C.
§Norcross Co., 1264 Riverbed av, N W
**OHIO QUARRIES CO. (Blue &
Buff, Ohio Sandstone, Sawed Stone a Spe-
cialty), 818 Euclid av. Quarries & Mills,
Amherst, O.**
§Portage Entry Quarries Co., Garfield Bldg.
Rothacker, J. A. & Co. (Cut Contractors),
W 3rd & Central Viaduct
*Spence Bros. (Crushed Limestone & Trap
rock), 12,409 Euclid av
Turner, A. W., Columbus & French, N W
COLD SPRINGS—*Strunk-Meyer Lime Co.
COLUMBUS—§Casparis Stone Co., Clinton Bldg.
*Columbus Macadam Co., 319 Dublin av
§Fish Stone Co. (Cut Contractors), 202 W
Kientz, John, 464 W. State
Klissinger, Elias C. (Dealer in Freestone),
30 Swan
Lang, E. & C. (Cnt Contractors), 551 S 5th
Lawson, Robert, 1134 N. High
Seeger, J. F., 692 E Fulton
Sharp, R. L., Stone Co., Harrison Bldg.
Wittenmeier Stone Co., s s Mound n of
H V R'y Sta.
Woodruff & Pausch Stone Co. (Crushed)
CONSTITUTION—*Cleary, Thomas
§Constitution Stone Co. (Sandstone)
COVINGTON—*Jackson, C. H.
Ruhl, J. W.
CRESTLINE—Kress, J. A.
DAYTON—Dayton Limestone Co. (White
Limestone), Perry & Eaker
Herman Bros. (Cut Stone & Mills), Burns
av e of Warren
Luyster, W. W. (Cut Contractor), Con-
over bldg
*New Jasper Stone Co., 1331 E 1st
*Mallow & Long, 1st & Harshman
DELPHOS—*Fisher, Aaron
*Fisher, A. L. (Building & Crushed)
EAST LIVERPOOL—Phillips, George J. (Con-
tractor)
EATON—Holland, Hy. F.
ELYRIA—§Elyria Stone Co. (Sandstone)
*Grafton Stone Co. (Blue & Buff Building,
Sawed, Flagging, etc.)
Middleburg Stone Co. Quarries, Berea, O.
*Smallwood, Edward
EUCLID—*Burgess, Clarence H. (Crushed)
FINDLAY—Hancock Stone Co. (Crushed, etc.)
Morrison, P. B. (Est. of)
Shea, Jas.
Smith, A. M.
Tarbox & McCall (Crushed, etc.)
FREMONT—Gottson Bros.
FULTON—*Fulton Stone Co.
GALION—Longstreth, T. W.
GENEVA—Stephens, C. S.
GRAFTON—§Grafton Stone Co. (Blue & Buff
Sandstone)
GREENFIELD—§Rucker Quarries (Lime-
stone)

HAMILTON—Horssnyder, F. (Cut Contractor)
Stewart, F. P. Granite Co. (Cut Contrac-
tors)
HOLLAND—*France Co.
IRONTON—Wheeler & Hebling
KELLEYS ISLAND—Kelly Island Lime &
Transport Co.
KENTON—Burkart, John (Flagging & Build-
ing Stone)
Kenton Marble & Granite Co.
LEWISBURG—*Lewisburg Stone Co.
LIMA—Hell, Valentine (Dealer)
Lima Cut Stone Co. (Cut Contractors)
West, Wm.
Westerly Granite Co.
LITHOPOLIS—Leinacker, Mrs., & Son
LOWELLVILLE—*Carbon Limestone Co.
LUDLOW—*Maxwell, A. A.
McDERMOTT—§McDermott Stone Co. (Blue
& Buff Sandstone)
*Waller Bros.
MADISONVILLE—Julien, Jas. (Cut Contrac-
tor)
MANSFIELD—*Frances E. H. Sons (Crushed
Limestone)
Fraser, Alex. & Co.
Preston, Burton
Thomson Granite Co.
Wolff, E. M. & Co.
MARBLE CLIFF—*Casparis Stone Co.
MARIETTA—Dickson & Beardsley
McLaren & Wommer
*Marletta Stone Co.
Melsenhelder & Leonhart
MARION—§Evans, John, Lime & Stone Co.
*Hamilton, J. M.
*Lawrence, Daniel
*Marion Lime & Stone Co.
MARTINS FERRY—Hanes, J. T.
MASSILLON—Massillon Sand & Stone Co.
(Sandstone)
*Massillon Stone & Firebrick Co.
Meinbart, Jno. & Son (Contractors)
*Sonnhalter Sand & Stone Co.
MAUMEE—*Ryan, C. W.
MESOPOTAMIA—Bridgden, H. A.
NEW PHILADELPHIA—Beiter, Jos.
NORWOOD—Stagge, Henry
PATTERSON—*Herzog, Jno. & Son (Building)
PIQUA—Ohio Marble Co.
§Statler Stone Co. (Limestone)
POMEROY—Bauer, Geo., Sr. (Flagging)
PORTAGE—*Neurenberger, Wm.
PORTSMOUTH—*Bodmer Bros.
§Reitz Stone Co. (Buff, Blue & Brown
Sandstone)
RARDEN—*Taylor Stone Co. (Blue, Buff &
Gray Sandstone)
READING—Fuchs & Co.
ST. BERNARD—Broxterman, Frank
SANDUSKY—Keim, C.
Sandusky Sand Co.
SPRINGFIELD—Crist, Wm. L., Jr.
§Houlton, Saml P., Lagonda Creek
§Mills Bros. (Building, Bridge, Flagging,
etc.)
§Rubsam, Earl J., Mad River nr National rd
§Taylor, Samuel S., Dayton pike n Corp.
STEUBENVILLE—Archer Marble & Gran-
ite Co.
*La Belle Iron Works (Limestone, all
Consumed by the Company)
McCarty, A. J.
Steubenville Ston eCo.
SUGAR GROVE—§Sharp, R. L. Stone Co.
(Sandstone)
SUNBURY—*Sunbury Stone Co.
SYLVANIA—*Sylvania Stone Co. (Crushed,
etc.)
TIFFIN—Stewart, George
Stewart, George
*Weot, Geo. A.
West Lime & Stone Co.
TOLEDO—Eckhardt Monumental Co., 3043
Monroe
Finucan, T. H. (Cut Contractor), Elm &
W & L E R R
Hnmmei, W. W., Hamilton & Cloyer Leaf
R. R.
Knopp Bros. Co. (Cut Contractors), c Oak
& Belt Line Ry
Libbe, Henry (Flagging, etc.), Champlain
nr Elm
Lloyd Bros. Co., W Central & Auburn avs
Miller, Christ. J., Cham. of Commerce
Neukom, Albert (Cut Contractor), 140
Ottawa
Ohio Stone, Cement & Const. Co., Bldrs'.
Exchange
Peck, C., & Son (Cut Contractors), 3050
Monroe
Toledo Stone & Glass Sand Co., Ohio
bldg
UPPER SANDUSKY—Neldg, Jos.
URBANA—Bunnell, D. M.
Heatherman, Pat'k
VAN WERT—*Erle Stone Co. (Crushed,
etc.)
WADSWORTH—Hockensmith, Bros.
WARREN—Warren Marble & Granite Co.
WASHINGTON, C. H.—Burke, P. J.

WATERVILLE—Ryan Stone Co.
 WEST CLARKSFIELD—*Warner Stone Co.
 WHITE HOUSE—*Pray Stone Co.
 *Ryan, Jno. (Crushed, etc.)
 WOOSTER—*Winter, Jno. F.
 YOUNGSTOWN—*Arrel Limestone Co.
 *Bessemer Limestone Co. (Limestone)
 Campbell Bros. Co. (Dealers)
 Mauser, Christian
 *Lake Erie Limestone Co.
 *Quaker Falls Stone Co.
 *Union Limestone Co.
 ZANESVILLE—Cary, F. S. & Co.

OKLAHOMA.

OKLAHOMA—West & Creath

OREGON.

HUNTINGTON—Oregon Marble Co. (Cut Contractors)
 PORTLAND—*County Quarry, Council Crest
 Phoenix Stone Co., Failing bldg
 *St. Helens Quarry Co. (Building Stone, etc.). Front & Ankeny

PENNSYLVANIA.

ALLENTOWN—Ochs, M. T. J.
 Kline & Sacks (Cut Contractors)
 Romlg & Bear
 Shoemaker, G. W. (Dealer)
 ALTOONA—*Bell Bockel Stone Co. (Crushed, etc.)
 Vipond Construction Co. (Cnt & Flagging)
 Williams, W. R.
 ANNVILLE—*Batdorf & Forney
 Millard, J. B., & Son
 *Vulcanite Limestone Co.
 Wood, H. A. (Cut Contractor)
 AVONDALE—*Williamson, F., & Co.
 BECHTELSVILLE—Hoffman, Oliver
 BETHLEHEM—Bethlehem Lime & Stone Co.
 BIRDSBORO—*Dyer, Jno. T., Quarry Co.
 BLAIRSVILLE—Murray, C. F.
 BRADFORD—Kelly, D. J. (Cut & Blue)
 BRIDGEPORT—*Tyson, Jacob L.
 West Conshohocken Stone Co.
 BRISTOL—Banister, Jos. (Flag & Bldg. Stone)
 Leedom, W. F. (Building Cutter)
 BROWNSVILLE—Wright's, T. S. Sons
 BURMONT—*Maher, Philip
 BUTLER—*Schaffner, Geo.
 CANOE CREEK—*Blair Limestone Co. (Limestone)
 CARBON—*Lake Erie Limestone Co. (Limestone)
 *Union Limestone Co. (Limestone)
 CARLISLE—Donovan, Jere
 Faber, Lewis C. & Son
 Goodyear Bros. (Lime)
 CARNEGIE—Fort Pitt Stone & Brick Co.
 CATASAUQUA—Bernd, E. M.
 CHAMBERSBURG—Shull, J. Carl
 CHESTER—*Burns, D. H. (Blue)
 Cullis, Hy. W.
 *Leiper, George G.
 COLUMBIA—Black, Samuel P.
 CONNELLSVILLE—Palmer Bros.
 Standard Lime & Stone Co.
 *Zachl, F. F.
 CONSHOHOCKEN—*Beatty, Jas., Sr. (Rub
 bly & Foundation)
 O'Neill, Thos. M. & Co.
 *Schuykill Stone Co. (Building, Bridge
 etc.)
 CURWENSVILLE—*Clearfield Quarrying Co.
 Roaring Run Stone Co.
 DANVILLE—Evans, T. L. Sons (Cnt Contractors)
 DOYLESTOWN—Moore, J. H. (Cut Contractor)
 Stilwell, John P.
 DRYVILLE—*Angstadt, Rudolph H. (Limestone & Lime Mfrs.)
 EARLSTON—*Thropp, Joseph E. (All Limestone for Blast Furnace Use)
 EASTON—Carey, Geo. A.
 Hartzell & Smith
 Howell's, D. J. Sons
 Kelly, Patrick (Blue)
 *Thomas Iron Co. (Limestone, all Consumed by the Company)
 EDGEHILL—*Comly, Frank T.
 *Edge Hill Silica Rock Co.
 EDGE WOOD PARK—*Enterprise Brick & Stone Co.
 ELLWOOD CITY—*Clydesdale Stone Co.
 Ellwood Stone Co.
 *Kimberly Stone Co.
 EMAUS—Becker, H. F.
 EMLENTON—Newton, A. R.
 EPHRATA—Bolster Bros.

Willson, T. A. (Crushed)
 FALLS CREEK—*Gocella Stone & Sand Co.
 FOREST CITY—*Forest City Stone Co.
 FRANKSTOWN—American Lime & Stone Co.
 GREEN LANE—*Davis Trap Rock Quarry
 *Kugler, Clarence B., Jr., & Co. Co.
 *Stalneck, Frank Y.
 GREENSBURG—Greensburg Stone Co.
 Hunker Sand & Stone Co.
 Unity Sand & Stone Co.
 GREENVILLE—*Greenville Silica Sand & Halpin, P. J. Quarry Co.
 GROVE CITY—*Uber & Breckenridge Stone
 HANOVER—Hoke, M. & Son Co.
 Kuhn, F. X. (Cut Contractor)
 HARRISBURG—Beatty & Bro. (Cut Contractors)
 Black, Jno. (Cut Contractor)
 Gerlock & Lutz (Foundation)
 HAZLETON—*Kebae, Chas.
 HIGH SPIRE—*Zimmerman, Solomon
 HOLLIDAYSBURG—American Lime & Stone Co.
 *Baldridge, E. R. & Co. (Limestone) Co.
 *Blair Limestone Co.
 *Hartman, J. L. (Limestone)
 *Juniata Limestone Co.
 HOMESTEAD—Erbeck, F. J. (Cut Contractor)
 *Hall, Geo. M. Co. (Foundation)
 HONSDALE—Caulfield, Martin
 JOHNSTOWN—*Somerset Stone Co.
 KING OF PRUSSIA—Schweyer & Leiss (Blue)
 LANCASTER—*Betz, Jacob
 Haldy Marble & Granite Works
 Heldig, John B.
 Hook, John H.
 Kreider, A. H.
 Lancaster Cut Stone Co.
 Moedinger & Son
 LATROBE—*Herman, John
 LEBANON—Bassler Limestone Co.
 Bock, W. S. (Cut Contractor)
 Gloninger Limestone Co.
 Guinther, Theobald (Cut Contractor)
 Hartlieb & Bro. (Cut Contractors)
 *Hauck, A. B.
 *Holland, Jno.
 Imperial Limestone Co.
 *Lebanon Stone Co.
 *Millard, J. B., & Son
 *Mount Gretna Brownstone Co.
 *Royer Sam'l A.
 McKEESPORT—*Bowman Bros. (Freestone)
 Winters, Edwin (Cut & Flagging)
 MALVERN—Green, Wm. S.
 MERCER—Robinson, N. T. (Flagging)
 MILTON—Wetzel, W. H.
 MYERSTOWN—*Calcite Quarry Co. (Limestone)
 *Deitz, Harry & Son
 *Millard, J. B. & Son
 NEW BRIGHTON—Martolf Bros.
 *Smith, A. F. Co. (Sandstone)
 NEW CASTLE—*Croton Limestone & Brick Co.
 *Isabella Limestone Co. (Limestone)
 *Johnson, Geo. W. Limestone Co. (Limestone)
 *Lawrence Limestone Co.
 *New Castle Limestone & Clay Co.
 *Pittsburg Limestone Co.
 *Shenango Limestone Co.
 NEWPORT—Hornback, A. V. & Son
 NICHOLSON—*Nicholson Stone Co.
 *Shields, Moses, Stone Co. (Cut & Sawed)
 NORRISTOWN—*Dyer, John T. Quarry Co. (Building & Crushed)
 Landis, Isaac (Flagging & Cut)
 *Lukens & Yerkes
 *Richardson & Ross Quarry Co., Mogeetown
 Smith, Geo. S. (Cut Stone)
 Sullivan, W. M. (Cut Contractor)
 NORTH WALES—Billiard, Jas.
 OIL CITY—*Oil City Sandstone Quarry Co.
 PALMYRA—*Deitz, Harry & Son (Limestone)
 *Kreider Bros. (Limestone)
 Marks, Moses
 PHILADELPHIA—Ambler-Davis Co. 14 S. Broad
 Ambler, H. C. Co., 3717 Old York rd
 Barber Asphalt Paving Co. (Kettle River Sandstone), Land Title bldg
 Bell, Wm. H. (Cut Contractor), 1711 N Front
 Brown, Jas. F. (Cut Contractor), N 39th & Haverford
 Buck & Gallagher (Cut Contractors), S 9th Wolf
 *Cambria Steel Co. (Limestone, all Consumed by the Company), Arcade bldg
 Clark & Co., 4425 Frankford av
 *Clearfield Quarrying Co., Rothschild bldg
 *Conemaugh Stone Co. (Coping & Concrete Stone), Arcade bldg
 *Conshohocken Stone Quarry Co., 119 S 4th. Quarries, W Conshohocken, Pa.
 Consolidated Stone Co., Witherspoon bldg

Copeland, Hugh & Co. (Cut Contractors), S 24th & Washington av
 Costigan, Lawrence, Church la & Baynton, Gtr
 Craig, Chas. (Contractor), 2632 Columbia av
 *Davis Trap Rock Quarry Co., Stephen Glrard bldg
 Delaware River Quarry & Const. Co., Arcade bldg
 Dodds, Jno. A. (Cut Contractor), 210 S 24th
 Dolan, T. & J., 314 S 24th
 Dyer, John T. Quarry Co., Harrison bldg
 Flynn, Jno. E. (Cut Contractor), Stenton av & E Luray, Wayne Jct
 France David Co (Crushed & Building), Tasker st Wharf
 Gallager, Wm. C., Ogden & Union
 Garrett, Jas. & Co., 1432 S Penn sq
 Giles, McMichael & Co. (Cut Contractors), 2929 Ellsworth
 Giles & McLaughlin, 1923 Wash'n av
 Gray, Wm. & Sons (Cut Stone Contractors), S 30th bet Walnut
 Greble Marble & Granite Works, Witherspoon bldg
 Haddington Quarry & Const. Co. (Jos. Perna, Prop.), 221 N 63rd
 Hagan, John & Co. (Stone Yard), cor Delaware River & Comly Wissnig
 Harrison, R. C., & Co. (Wholesale), 24th c Walnut
 Hastings & Morrison (Cut Contractors & Saw Mills), 1510 Wash'n av
 Hauser, John, 2333 Ridge av
 Hayes & Sons, 2935 Ellsworth
 Hummelstown Brown Stone Co., Penna. bldg
 Ireland, W. H., Stone Crushing Co., 1220
 *Keenan, D. F., Arcade bldg Filbert
 Kirkpatrick Bros. (Cut Stone Contractors), 23d & Washington av
 Lambertville Stone Quarry Co., 1218 Filbert
 Law & Burwell (Cut Contractors), 24th c Locust
 *Lukens & Yerkes, Commonwealth bldg
 Maxwell's, Jno. Sons (Blue), 30th below Spruce
 *Mermaid Quarries, Gtn & Mermaid av, C. Hill
 O'Neill, Jerry & Co., 7811 Gtn av
 Penn Quarry Co., Arcade bldg
PENNA. MARBLE & GRANITE CO.
 (Cut Stone Contractors), Penna bldg.
 (See adv. Index, end of book)
 *Penna Steel Co. (Limestone, all Consumed by the Company) Girard bldg
 Peoples Bros. (Building & Crushed), N 25th & Callowhill
 Perry-Matthews-Buskirk Stone Co., Witherspoon bldg
 Phila. Granite Works, 24th c Locust
 *Phila. & Conshohocken Stone Quarry Co. (Dimension & Rubble), Rothschild bldg
 Prince, Jno. F., 2202 Chestnut
 Rellly, Thos. (Cut Contractor), 1616 Thompson
 *Richardson & Ross Quarry Co., Penna bldg
 *Ridgway, B. & Son (Wyoming, Blue, Rough & Cut Work), N 9th & Columbia
 *Roaring Run Stone Co., Penna bldg
 Ryder & Jenkins, 3641 Woodland av
SCHILLING, FRANK H. (Indiana & Green River Limestone & Granite Cut Contractor), 614 Hale bldg. (See adv. Index, end of book)
 *Schuykill Stone Co. (Building, Bridge Ashler, etc.), Bulletin bldg
 Scott, J. & Sons, 25th & Dickinson
 *Shanley, J. F., Co. (Heavy Masonry), Arcade bldg
 *Silica Stone Co., Arcade bldg
 Tyson, J. L., 900 Jeff
 Williamson, Frank (Indiana & Ohio Buff & Blue, Conn. Brown & Broken, Wholesale), 2202 Chestnut
PHOENIXVILLE—*Detwiler, G. A. (Cut Contractor)
PITTSBURG—Aitkenhead, Wm. (Cut Contractor), 1222 Irwin av. N S
 Alston, A. & Son, Grant & Penna avs
 Bachman, Adam, 16 S 22d
 Beaver Valley Sand Stone Co., Frick bldg
 Berge & Melville (Cut Contractors), River av & Craig st, N S
 Booth & Flinn (Ltd.), 1942 Forbes av
 Brogan, Edward (Cut Contractor), 1215 Franklin, N S
 *Carnegie Steel Co. (Limestone for Their Own Use), Quarries at Mercer, Pa.
 Clark Bros. Co. (Cut Contractors), Bayard & Preble av, N S

§Cleveland Stone Co., 316 4th av
 Clifford, John R., Bryn Mawr rd
 *Clydesdale Stone Co. (Bridge, Rubble,
 Dimenson, etc.), Murland bldg
 *Consolidated Stone & Mining Co. (Sand
 Stone), Farmers' Bank bldg
 Coutts, Thos., & Co. (Cut Contractors),
 3301 Penn av
 Cralg Stone Co., Murland bldg
 Dallas, Dominac, 7915 Batavia
 Damm & Hyer, 1523 Howard, N S
 Davison, J. K., & Bro. (Contractors),
 42d & Division
 Downey & McDermott, Homewood av &
 Mt. Vernon
 Ellwood Stone Co., House bldg
 Forest City Stone Co., 331 4th av
 Fritz, Geo., 1213 East, N S
 Haffner & Veder, 1024 Perry, N S
 Happ, Louis (Cut Contractor), Fulton &
 Penna av, N S
 Hartbaur, Daniel, 4115 Liberty av
 *Hill, John C. (Dimension, Curb & Rub-
 ble), Park bldg
 Holmes, Samuel (Cut Contractor), 1253
 Juniata, N S
 Houlette, Thos., Co., 331 4th av
 Knox, Strouss & Bragdon (Cut Contrac-
 tors), Preble av & Juniata, N S
 Krah, Amend, 804 Madison av, N S
 Kress, Paul (Cut Contractor), Main st, N S
 Krum Granite & Stone Co., 530 Federal
 Miller, John W. (Cut Contractor), 70 Mel-
 rose av, N S
 Morris, A. G. Lime & Stone Co., Empire
 bldg
 Morrison Bros. Co. (Cut Contractors), 459
 South av
 Neshannock Stone Co., Farmers' Bank
 bldg
 Ogilvie Bros., W. Magnolia & Sald, N S
 *Ohio Quarries Co., Park bldg
 Payne, Wm. J., & Sons Co., Wash'n &
 Beltzhoover avs
 *Republic Iron & Steel Co. (Limestone, all
 Consumed by the Company)
 Reinhardt, Sebastian (Cut Contractor),
 3925 Duquesne av, N S
 Roaring Run Stone Co., Farmers' Bank
 bldg
 West End Stone & Brick Co., 121 Wa-
 bash
 Winfield Mineral Co. (Limestone), 421
 Wissner, Henry, 1715 Wash'n av, N S
 Wolf, Louis, Berlin & P. R.
 Wymard, John K., 915 Gerritt
 Wessel, Mrs. Mary, 1938 East, N S
 POINT PLEASANT—§Heany, Nicholas L.
 POLK—*Hillside Brown Stone Co. (Brown
 Stone)
 PORT KENNEDY—*Erwin, Arch. B. (Lime-
 stone)
 POTTSTOWN—§Nagle, Geo. W. (Dimen-
 sion)
 POTTSVILLE—Collins, Richard (Est. of)
 Miller, Louis
 Pottsville Marble & Granite Works
 QUAKERTOWN—Clark, Josiah (Flagging)
 READING—Ahrens, H. E., Co. (Contract-
 ors)
 Bobst, Samuel (Foundation), 450 S 18th
 Eben & Nagle
 Eberl, S. & Co., 730 Olney
 Faust, J. K., 123 N Front
 Miller, Daniel (Cut Contractor), c Pear &
 Wash'n
 Mt. Penn Sand & Stone Works, 216 N 10th
 *Reading Quarry Co.
 ROCHESTER—McDonald & Hartman (Deal-
 ers)
 ST. PETERS—*Knauer, David J.
 SALONA—Nittany Lime & Stone Co. (Crushed,
 etc.)
 SCHWENKVILLE—Koons, F. S.
 SCRANTON—Bake Bros., Connell bldg
 Carlucci Stone Co. (Cut Contractors)
 Keller, Luther (Lime)
 §Langan, John F. (Cut Stone)
 Ruddy, M. J. (Cut Contractor), 421 Lack.
 Stipp, Peter (Blue and Yellow)
 Sykes, Samuel & Sons (Cut Contractors),
 *White Haven Quarry Co., 137 Penn av
 *Woelkers, Bellman, Zitzelman (East
 Mountain Quarries), 110 Wash'n av
 SEWICKLEY—Challis, D. W. & Son
 SHAMOKIN—Barr, Peter (Flagging)
 SHARON—Cook, Jno. & Son
 McIntyre, Wm., & Sons (Cut Stone Con-
 tractors)
 SHARPSBURG—Forsythe, J. B.
 SOUDERTON—*Progressive Realty Co.
 SOUTH BETHLEHEM—*Bethlehem Steel Co.
 (Limestone, All Consumed by the Com-
 pany)
 General Crushed Stone Co. (Inc.) (Crushed
 R. R. Ballast, etc.)

STEELTON—§Cumber, Geo. W. (Est. of)
 Messenger Bros. (Limestone)
 TAMAQUA—Kintzel, Geo. I.
 TUNKHANNOCK—White, Geo.
 TIRONA—§American Lime & Stone Co. (Lime-
 stone)
 *Pittsburg Limestone Co.
 WAMPUM—*Wampum Crushed Limestone
 Co.
 WASHINGTON—Hallam Construction Co.
 *Reitch Bros.
 WAYNE—*Johnson, Richard H. Co.
 *McClellan, Wm.
 WAYNESBORO—*Decarbonated Lime & Stone
 Co.
 WEST CHESTER—Corcoran Construction
 Co.
 WEST CONSHOHOCKEN—*Phila. & Con-
 shohocken Stone Quarry Co.
 WEST GROVE—Penna. Marble & Granite Co.
 (Cut Contractors)
 WEST NEWTON—Walker, Geo. S.
 WILKES-BARRE—Schmitt's, John A. Sons
 Laurel River Red
 Stemmer & Geick (Cut Stone) Red
 WILKINSBURG—Enterprise Brick & Stone Co.
 Hill, Jno. C.
 Iron City Stone & Coust. Co. (Cut Con-
 tractors)
 *New Kensington Stone Co. (Bridge, Curb
 & Rubble, etc.)
 Robertson, James (Cut Contractor)
 WILLIAMSPORT—Butz, Wilson
 Carothers, A. K.
 Gibbons, J. E.
 Stuempfle, A. (Flagging)
 Stuempfle's, D. Sons
 Susquehanna Stone Co.
 YORK—*Baker, J. E. & Co. (Limestone &
 Lime Mfrs.)
 §York Valley Lime Co. (Limestone)

RHODE ISLAND.

EAST GREENWICH—Hussey, Thos. A.
 EAST PROVIDENCE—Chase, Andw. R.
 *McCormick, Jos. (Foundation, Building &
 Crushed)
 NEWPORT—Austin, Chas. P.
 Cottrell, Jas. B. (Cut Contractor)
 Riggs, Geo. H.
 PAWTUCKET—Newell Coal & Tar Co. (Blue)
 O'Connor, Maurice M.
 O'Connor & Weatherhead
 PROVIDENCE—Bishop, J. W. & Co. (Cut Lime-
 stone Contractors), Butler Exchange
 Goff, Jas. C. (Blue), 31 Point
 Manchester & Hudson (North River Blue)
 Norcross Bros. (Brown & Red, Sand & Cut
 Contractors), 49 Westminster
 O'Brien, Jno., 440 Cranston
 Rhode Island Brown Stone Works (Brown
 & Red, Sand & Cut Contractors), Le-
 land nr Brown & Sharpe's
 *Smithfield Granite Co. (Building &
 Foundation Stone, etc.) 199 Hartford
 av
 Stone, Jos. P. (Cut Contractor), Allens av
 & Seymour st
 WOONSOCKET—Dalgneult, Alfred (Building)
 Magown & Rueke
 Murray, Thomas P.

SOUTH CAROLINA.

COLUMBIA—Hyatt, F. H.

SOUTH DAKOTA.

LEAD—Bartlett Bros. (Dealers)
 SIOUX FALLS—Ballard & Son
 Gillett, Frank H.
 Perry, Geo. H. (Dealer)

TENNESSEE.

CHATTANOOGA—*Chickamauga Quarry & Con-
 Hassell, A. W. struction Co.
 Trontt, John & Co. (Cut Contractors)
 CLEVELAND—Cleveland Granite & Marble
 Works
 MEMPHIS—Anderson, Axel (Cut Contractor)
 Christie, Alex. (Cut Contractor)
 Jenkins, Thos. & Co. (Cut Contractors)
 Kastner Cut Stone Co., Vance & Walnut
 Morris Bros. (Cut Contractors & Saw
 Mills), 201 S Main
 Rigg & Rice (Cut Contractors), E R R &
 East
 NASHVILLE—Bardon-Fulcher Cut Stone
 Co. (Cut Contractors)
 Engelbert & Co.
 Foster & Herbert Cut Stone Co.
 Hardison, W. T., & Co. (Dealers)
 *Newsom Crushed Stone & Quarry Co.
 Oman Stone Co. (Cut Contractors)
 Peter, J. H., & Co. (Cut Contractors)

TEXAS.

AUSTIN—*Austin White Lime Co. (Limestone)
 DALLAS—Davoren, P. E., & Co.
 Hanway Marble & Granite Co.
 Moore & Co. (Dealers)
 DENISON—Chamberlain, A. P.
 EL PASO—El Paso Ice & Refrigerator Co.
 (Limestone)
 Mount Franklin Lime & Stone Co.
 Pioneer Marble & Granite Co.
 FORT WORTH—U. S. Construction Co.
 GALVESTON—Ott, Chas. S.
 KERRVILLE—§Richards, B. C.
 SAN ANTONIO—Blank, P. C. & Co.

UTAH.

LOGAN—Hanson, P. O.
 OGDEN—Mitchell Bros. (Cut Contractors)
 SALT LAKE CITY—Ashton, Whyte & Skilli-
 Johnson, C. O. corn Co.
 McKenzie, R.

VERMONT.

BARRE—(See Granite Producers, Workers
 and Dealers)
 BATTLEBORO—Grant, C. H. Granite Co.
 BURLINGTON—Goodell, J. W.
 HARDWICK—(See Granite Producers, Work-
 ers and Dealers)
 MONTPELIER—American Granite Co.
 Columbian Granite Co.
 Smith, Charles A.
 RANDOLPH—Lamb, Austin F.
 ST. ALBANS—§Fonda, W. B. (Limestone)
 ST. JOHNSBURY—Bennett, Clarence A.
 Bragg, A. L.
 WILLIAMSTOWN—Gearson-Becket Co.

VIRGINIA.

CLINTON FORGE—*Allegheny Ire & Iron Co.
 Limestone, All Consumed by the Com-
 pany)
 NEWPORT NEWS—Davis, J. L.
 NORFOLK—Anthony, Arthur G.
 Consolvo, Eugene H.
 Makinson, Allen J.
 PETERSBURG—§Cook, Asa B.
 PORTSMOUTH—Ogg, A.
 RICHMOND—Gemmell, Robert, 902 Catharine
 Mason, Wm. R. (Cut Contractor), 1601 W
 Marshall
 Matzke, Otto A. (Cut Contractor), 2920
 Wray, A. J., 328 S Cherry
 SCHUYLER—§Virginia Soapstone Co. (Soap-
 stone)

WASHINGTON.

SEATTLE—Port Angeles Stone Co., N. Y.
 Riverside Stone Co., Marion bldg. bik
 Seattle Cut Stone Contracting Co., 16th
 av & Alva
 *Suela Island Quarry Co., Arcade Annex
 SPOKANE—Smith, O. F. (Cut Contractor)
 TACOMA—Donnellan & McKenzie (Cut Con-
 tractors)
 Steven & Nelson (Cut Contractors)
 Walker Cut Stone Co. (Cut Contractors)
 TENINO—*Hercules Sand Stone Co.
 *Tenino Stone Quarries

WEST VIRGINIA.

BUNKER HILL—*Baker, J. E. & Co. (Lime-
 stone & Lime Mfrs.)
 HINTON—Noel, R. E.
 MARTINSBURG—Berkley Limestone Co.
 (Crushed & Fluxing Limestone)
 Kantner, W. H.
 *Standard Lime & Stone Co.
 ROWLESBURG—Preston Bluestone Co.
 WHEELING—Rosenberg, J. H., Jr.

WISCONSIN.

ABLEMAN—*Gall, Wm.
 APPLETON—§Marston Bros. (Limestone)
 ASHLAND—§Donald, A. & Co. (Cut Contrac-
 tors)
 CLINTONVILLE—Melzer, William (Building
 & Cutter)
 DUNNVILLE—Ulmer, Wm. H. (Cut Contrac-
 tor)
 *Wallace, Wm. M.
 LA CROSSE—*La Crosse Stone Co. (Crushed,
 Paving, Building, etc.)
 LANNON—*Davis Bros.' Stone Co.
 *Flanagan & Sons
 *Froemming Bros. Quarry Co.
 *Harmon, H., & Sons
 *Lake Shore Stone Co.
 *Lannon Quarry Co.
 *Sheridan Bros.
 *Wallen, Frank

MANITOWOC—Johnson, J. G. Co. (Dealers) Kettlenhofen, N. (Cutter)
MARBLEHEAD—Nast Bros. Lime & Stone Co.
MILWAUKEE—Andres Stone & Marble Co. (Cut Contractors), Keefe av & Richards Dankert, Chas. J., 756 6th General Construction Co. (Cut Contractors), 31st & Galena
 Kies, Wolfgang, 3310 Vlelt
 Lake Shore Stone Co., Ry. Exch. bldg
 *Manegold, A. F. & L., 204 Grand av
 Mattusch, Frank & Co. (Cut Contractors), 3702 Chestnut
 Meyers Bros. (Cut Contractors), c E North av & Newhall
 Monarch Stone Co., 204 Grand av
 Schmidt, P. & Co. (Cut Contractors), 355 E North av
 Story Bros. (Limestone), 204 Grand av
 Tingley, C. Wallace (Cut Contractor), 720 31st
 *Waukesha Lime & Stone Co. (Rubble, Dimension, etc.), 1211 Humboldt av
 *Wauwatosa Stone Co. (Limestone), 204 Grand av
 Western Lime & Cement Co., Pabst bldg
 Wilce, Jno. (Cut Contractor), 253 Orchard
OSHKOSH—Cook & Brown Lime Co. (Limestone)
 *Lutz, Robt.
 *Prautsch, Oscar
 Wenrich, H. F.
RACINE—Central Quarrying Co.
 Crotsenburg, W. A.
 Horlick Lime & Stone Co., on Rapids rd
 O'Laughlin, John Stone Co. (Quarry & Racine Stone Co. Crushed)
 Roberts, Jno. M. (Cut Contractors)
 Roberts & Co. (Cut Contractors)
SHEBOYGAN—Scheele, Henry, Jr. (Cut Contractor)
 *Sheboygan Lime Works (Lime Stone)
STURGEON BAY—Cochens, M. V.
 *Smith, Thos. H. Stone Co.
 *Sturgeon Bay Stone Co.
SUPERIOR—Penn, Wm. Stone Co. (Cut Contractors, West Superior)
UTLEY—Wisconsin Granite Co.
WATERLOO—Portland Granite Co.
WAUKESHA—Central Quarrying Co.
 *Waukesha Lime & Stone Co.
WAUWATOSA—Manegold, A. F. & L. Zimmerman, J. C. & Son

WYOMING.

RAWLINS—Larsen, H. (Sandstone)

Stone Renovators

American Diamond Blast Co., 50 Church, New York
 Dye Bros., 100 W 54th, New York
 Farnham, Neal (Inc.), 1 Madison av, New York
 Fordham Stone Renovating Co. (Granite, Marble & Brownstone Renovated & Pointed), 1123 B'way, New York
 Madison Stone Renovating Co., 1060 Park av, New York
 National Stone Renovating Co., 503 5th av, New York
 Parls Stone Renovating Co., 19 Park pl, New York
 Smith, N. & Co., 131 Columbus av, New York
 Zaput, Nicholas, 254 W 65th, New York

Stone Rubbing Beds

(See Rubbing Beds, Stone, Slate, etc.; also Machinery, Stone Polishing)

Stone Saw Blades (Steel)

Carnegie Steel Co., Pittsburg, Pa.
 Elyria Iron & Steel Co. (High Carbon Steel), Elyria, O.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Oldham, Joshua & Sons (Inc.), 112 26th, Brooklyn, N. Y.
 Pittsburg Steel Co., Pittsburg, Pa.

Stone Sawing Machinery

(See Machinery, Stone Sawing)

Stone Screenings

Bessemer Limestone Co., Youngstown, O.
 Producers Supply Co., 138 Washington, Chicago, Ill.

Shanley, B. M. & J. F. Co., Arcade bldg., Phila., Pa.
 Waukesha Lime & Stone Co., 172 Washington, Chicago, Ill.
 Winfield Mineral Co., 421 Wood, Pittsburg, Pa.

Stoners (Cherry & Peach)

Enterprise Mfg. Co. ("Enterprise"), 3d & Dauphin, Phila., Pa.
 Goodell Co. (Family), Antrim, N. H.
 Hardware & Woodenware Mfg. Co. ("Brighton"), 693 B'way, New York
 Mapes Machine Co., South Haven, Mich.
 Penn. Hardware Co. ("Penn"), Reading, Pa.
 Rollman Mfg. Co., Mount Joy, Pa.
 Sinclair-Scott Co., Baltimore, Md.

Stones (Emery)

American Emery Wheel Works, 325 Waterman, Providence, R. I.
 Bridgeport Safety Emery Wheel Co., Bridgeport, Conn.
 Carborundum Co., Niagara Falls, N. Y.
 Norton Company (Alundum), Worcester, Mass.
 Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York
SUPERIOR CORUNDUM WHEEL CO., Waltham, Mass. (See adv. index, end of book)
 Tanite Co., Stroudsburg, Pa.
 Vitrified Wheel Co., Westfield, Mass.

Stones (French Buhr Mill)

Charles, J. M., 59 Pearl, New York

Stones (Glass Cutters')

Norton Company, Worcester, Mass.
 Pike Mfg. Co., Pike Sta., N. H., & 151 Chambers, New York

Stones (Huller & Pulp)

Hagen, E. ("Patent Universal" Pulp), 121 Upperline, New Orleans, La.

Stones (Oil & Water)

American Emery Wheel Works, Providence, R. I.
 Carborundum Co., Niagara Falls, N. Y.
 Chicago Wheel & Mfg. Co. ("Gem"), 40 W Randolph, Chicago, Ill.
 Deerlick Oil-Stone Co., Chagrin Falls, O., & 7 Warren, New York
 Dixon, Wm. (Inc.), (Imported), 39 John, New York
 Manlius Stone Co., Manlius, N. Y.
 Norton Co. ("India"), Worcester, Mass.
 Oliver Machinery Co. ("Oliver"), Grand Rapids, Mich.
 Pike Mfg. Co., Pike Station, N. H.
 Star Corundum Wheel Co., Detroit, Mich.

SUPERIOR CORUNDUM WHEEL CO., Waltham, Mass. (See adv. index, end of book)
 Vitrified Wheel Co., Westfield, Mass. (book)

Stones (Scythe)

Carborundum Co., Niagara Falls, N. Y.
 Chicago Wheel & Mfg. Co., 330 W Monroe
 Cleveland Stone Co., Hickox bldg, Cleveland, O.
 Norton Co. ("Norton" Alundum), Worcester, Mass.
OHIO QUARRIES CO., 818 Euclid av., Cleveland, O.

Pelkey, W. H., Fair Haven, Vt.
 Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York
SUPERIOR CORUNDUM WHEEL CO., Waltham, Mass. (See adv. index, end of book)

***Stones (Sharpening)**

SUPERIOR CORUNDUM WHEEL CO., Waltham, Mass. (See adv. index, end of book)

Stones (Tool)

Carborundum Co., Niagara Falls, N. Y.
 Chicago Wheel & Mfg. Co., 330 W Monroe, Chicago, Ill.
 Cleveland Stone Co., Hickox bldg, Cleveland, O.
OHIO QUARRIES CO., 818 Euclid av., Cleveland, O.; Quarries & Mills: Ambursi, Ohio
 Pike Mfg. Co., Pike Station, N. H., & 151 Chambers, New York

Stoneware (Chemical)

Remmey, Richard Sons Co., 2637 E Cumberland, Phila., Pa.
 Graham, Chas. Pottery Works, 986 Metropolitan av, Brooklyn, N. Y.
 United States Stoneware Co., Akron, O.
 Weeks, A. J., 920 E Market, Akron, O.

Stools (Adjustable)

American Seating Co., 90 Wabash av, Chicago, Ill.
 Chandler Adjustable Chair & Desk Co., 163 Devonshire, Boston, Mass.

Stools (Store)

Bethlehem Foundry & Machine Co. (Bracket, Pedestal, etc.), Front, South Bethlehem, Pa.
 Bryan Novelty Mfg. Co. (Revolving & Folding Counter), Bryan, O.
 Van Dorn Co. (Revolving Tops), Quincy, Ill.

Stoppers (Bath & Basin)

Cilmax Specialty Co., Seneca Falls, N. Y.
 Goodrich, B. F. Co. (Rubber), Akron, O.
 Morgan & Wright (Inc.) (Rubber), Detroit, Mich.
 Wolverine Brass Works, Grand Rapids, Mich.

Stoppers (Bottle)

Baird Machine Co., Oakville, Conn.
 Hutter, Karl ("Hutter" Porcelain), 241 Lafayette, New York
 Koscherak, I. (Porcelain), 239 Canal, New York
 Marks, E. C. ("Perfection"), 260 Clark, Chicago, Ill.
 Metal Finishing Co., Union City, Conn.
 Taplin Mfg. Co. ("Victor"), New Britain, Conn.

Stoppers (Gas Main)

Behringer, Edw. A. ("Perfect"), 82 Warren, New York
 Safety Gas Main Stopper Co. ("Goodman"), 257 E 133d, New York

Stoppers (Plumbago)

Bartley, Jonathan Crucible Co., Trenton, N. J.
 McCullough-Dezell Crucible Co. (For Bessemer & Open Hearth Furnaces, Pittsburg, Pa.)

***Stoppers (Rubber)**

Goodrich, B. F. Co., Akron, O.
PENNSYLVANIA RUBBER CO., Jeanette, Pa. (See adv. index & branch offices, end of book)

Stoppers & Nozzles (Ladle)

Seldel, R. B. (Inc.) (For Open Hearth & Bessemer Ladles), 1334 Calhoun, Phila., Pa.

***Stops (Crane Limit)**

ELECTRIC CONTROLLER & MFG. CO., Cleveland, O. (See adv. index & branch offices, end of book)

***Stops (Curb & Waste)**

UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

Stops (Flue)

Andrews Wire & Iron Works ("Piggins"), Rockford, Ill.

Stops & Wastes (Compression)

American Foundry & Mfg. Co., St. Louis, Mo.
 Central Brass Mfg. Co. ("Cleveland"), Cleveland, O.

Exeter Brass Works, Exeter, N. H.
 Haines, Jones & Cadbury Co. ("H. J. & C."), Phila., Pa.
 Hays Mfg. Co., Erie, Pa.
 Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
 Landers, Frary & Clark, New Britain, Conn.
McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)
 Milwaukee Brass Mfg. Co., Milwaukee, Wis.
 Mueller, H. Mfg. Co., Decatur, Ill.

Peck Bros. Mfg. Co. ("Universal"), New Haven, Conn.
 Stebbins, E. Mfg. Co., Springfield, Mass.
 Walworth Mfg. Co., Boston, Mass.

Store Front Construction

Bartelstone, Harris & Son (All Glass), 56 Cooper sq., New York
 Coulson, J. W. & Co., Columbus, O.
 Detroit Show Case Co., Detroit, Mich.
 Kawneer Mfg. Co. ("Kawneer"), Niles, Mich.
 National Store Front Co., 208 First av., Pittsburgh, Pa.
 Phillips, John & Co., Detroit, Mich.
 Schultz, E. H. ("Schultz"), St. Joseph, Mo.
 Voltz Mfg. Co. ("Universal"), St. Joseph, Mo.

Store Fronts (Brass & Bronze)

Brandenberger & Co., Baltimore, Md.
 Brown Bros. Mfg. Co., 22d & Campbell av., Chicago, Ill.
 Columbus Corner Post Co., Columbus, O.
FLOUR CITY ORNAMENTAL IRON
 Works, 27th st & 28th av., Minneapolis, Minn. (See adv. index, end of book)
GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)
 Heath-Johnson Co. (Inc.), 123 Ontario, Chicago, Ill.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

STANDARD CO., Railway Exchange bldg., Chicago, Ill. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)
 Union Equipment & Bronze Co., 1901 Park av., New York

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Store Fronts (Cast Iron)

(See Firms in Iron, Architectural & Ornamental, marked with a (*) Star)

Store Fronts (Galvanized Iron)

Berghofer & Ohnemus, Quincy, Ill.
CANTON MFG. CO., Canton, O. (See adv. index, end of book)
 Chattanooga Steel Roofing Co., Chattanooga, Tenn.
DROUVE, G. CO., 40 Tulip, Bridgeport, Conn. (See adv. index, end of book)
EDWARDS MFG. CO., 545-565 Eggleston av., Cincinnati, O. (See adv. index, end of book)

Freund, Jacob Roofing Co., Mitchell av & B & O. S. W. Rv., Cincinnati, O.
 Gara, McGinley & Co., 23 S 17th, Phila., Pa.
 Henson, Robinson Co., Springfield, Ill.
 Mesker, Geo. L. & Co., Evansville, Ind.
 Mesker & Bro., 421 S 6th, St. Louis, Mo.

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

MULLINS, W. H. CO., 341 Franklin, Salem, O. (See adv. index, end of book)
NATIONAL SHEET METAL ROOFING Co., 339 Grand, Jersey City, N. J. (See adv. index, end of book)

Newburgh Cornice Works, Newburgh, N. Y.
 Penn. Metal Ceiling & Roofing Co., 23d & Hamilton, Phila., Pa.
 Ritzler, J. A. Cornice & Ornament Co., 600 W 5th, Kansas City, Mo.
 St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Siddons, John Co., Rochester, N. Y.
 Watson, Jas. H. Co. (Inc.), Bradley, Ill.
 Wilmington Cornice Works, Wilmington, Del.
WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. index, end of book)

Witt Cornice Co., B'way & 8th, Cincinnati, O.

Store Fronts & Show Windows (Glass)

Columbus Corner Post Co., Columbus, O.
 Crane Glass & Mfg. Co. (All Glass), Cleveland, Ohio

Store & Bar Fixtures

Abbott Mfg. Co., St. Paul, Minn.
 Architectural Woodworking Co. (High Grade Store Fixtures), 3019 Chestnut, Phila., Pa.

Becker, L. A. Co. (Drug Store, etc.), 900 S Halsted, Chicago, Ill.
 Bloom, Alfred Co., 1502 California, Omaha, Neb.
 Buffington, I. T., Elizabethville, Pa.
 Burge-Huck Mfg. Co., Quincy, Ill.
 Bush, Jas. S. (Office & Store), 239 B'way, New York

Capitol City Furniture Co. (Bank, Store, Bar, Church, etc.), 639 Jackson, St. Paul, Minn.
 Chicago Store & Office Fixture Co., 316 S. Clinton, Chicago, Ill.
 Cleveland Store Fixture Co., 4059 St. Clair av., N. E., Cleveland, O.
 Curtis & Yale Co. (Wholesale Mfrs. of Bar, Hotel, Bank, Store & Office Fixtures), Wausau, Wis.

Dean, C. P., 10 Governor, Richmond, Va.
 Detroit Show Case Co., Detroit, Mich.
 Fischer Bros., 150 Bank, New York
 Folding Bath Tub Co., Marshall, Mich.
 Glaser, Rohrer & Co., 725 1st av., New York
 Gray Mfg. Co., Muskegon, Mich.
 Great Western Cabinet Works, 2025 Harrison, Kansas City, Mo.

Herdman Sash, Door & Lumber Co., Zanesville, Ohio

Kleeman, Wm. & Co., 619 W 54th, New York
 Kloak Bros. & Co., c Pearl & Elm, Cincinnati, Ohio
 Kurtz Bros., South Bethlehem, Pa.
 Loeper, Anton, Ashland, Pa.
 Butke Mfg. Co., Portland, Ore.
 Maclean, J. S., 161 W Spring, Columbus, O.
 Mansfield, R. & Son, 313 E Main, Louisville, Ky.
 Mason City Mfg. Co., Mason City, Ia.
 Nalle & Co., Austin, Tex.

National Office Furniture & Supply Co., 921 F, N W, Washington, D. C.
 Neuman Co. (Bank, Drug & Store), Waterloo, Ia.
 New York Store Fixture Co., 148 Bank, New York

Norwich Nickel & Brass Co., Norwich, Conn.
 Phillips, John & Co., Detroit, Mich.
 Phoenix Furniture Co., Eau Claire, Wis.
 Quincy Show Case Works (Bank, Office, Drug Store, Jewelry, etc.), Quincy, Ill.
 Reher's, J. Sons, 409 E 107th, New York
 Revell, Alex. H. & Co., c Wabash av & Adams, Chicago, Ill.

Rieser, Ely J. & Co. (Drug, Saloon, Cigar, etc.), 1st av & 28th, New York
 Roach & Musser Sash & Door Co., Muscatine, Iowa

Rock Island Stair Works, Rock Island, Ill.
 St. Louis Bank Fixture Co., 807 Walnut, St. Louis, Mo.

Sayre-Newton Lumber Co., 23d & Blake, Denver, Col.

Segale Mfg. Co., 68 E Spring, Columbus, O.
 Segelke & Kohlhaus Mfg. Co., La Crosse, Wis.
 Sexsmith & Hauser Co., 1 Hadison av., Newburgh, Chas., 211 Wooster, New York
 Simmons, W. H. Wood Working Co., Williamsport, Pa.
 Sorensen, O. J., La Crosse, Wis.
 Staude & Reuckoldt Mfg. Co., Souard c De Kalb, St. Louis, Mo.

STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
 Stevens, Benj. A. Co., Toledo, O. (of book)
 Struck, Alfred Co., Louisville, Ky.
 Viking Refrigerator & Mfg. Co., Kansas City, Mo.

Warren, Wm. H. Mfg. Co., c Blackhawk & Smith av., Chicago, Ill.

Weaver, Edwd. E. Tamaqua, Pa.
 Whitcomb Cabinet Co., Kansas City, Mo.
 Winter, M. Lumber Co., Sheboygan, Wis.
 Wollaege Mfg. Co., 636 N Water, Milwaukee, Wis.

Worn, William & Co., 69 George, Brooklyn, N.Y.

Storm Doors and Windows

Gordon, Van Tine & Co., Davenport, Ia.
 Osgood, Blodgett Mfg. Co., St. Paul, Minn.
 Phenix Mfg. Co. ("Phenix"), Humboldt av c Center, Milwaukee, Wis.

Stove Boards

Keystone Stove Board Co., 128 N 2d, Phila., Pa.
 Oil City Asbestos Co. (Asbestos), Oil City, Pa.
 Sweeney, W. H. Mfg. Co. (Embossed White Metal), 66 Water, Brooklyn, N. Y.
 Wabash Screen Door Co., 115 Adams, Chicago, Ill.

Stove Linings

Baltimore Terra Cotta Works, Baltimore, Md.
 Brooklyn Fire Brick Works, 88 Van Dyke, Brooklyn, N. Y.
 Columbia Fire Brick Co., Canton, Ohio
 Fox, E. S. & Co., Reading, Pa.
 Garfield Fire Clay Co., Robinson, Pa.
 Hall & Sons, 69 Tonawanda, Buffalo, N. Y.

Louisville Fire Brick Works, Louisville, Ill.
 McLeod & Henry Co., Troy, N. Y.
 Newton-Perkins Fire Brick Co., Albany, N. Y.
 Peekskill Fire Brick Works, Peekskill, N. Y.
 Presbrey Stove Lining Co., Taunton, Mass.
 Rogers & Co., Royersford, Pa.

RUTLAND FIRE CLAY CO. (Plastic), Rutland, Vt. (See adv. index & branch offices, end of book)

Standard Stove Lining Co., Taunton, Mass.
 Sweeney, Geo. & Co., 1334 Ridge av., Phila., Pa.
 Taunton Stove Lining Co., Taunton, Mass.
 Union Stove Lining Co., Taunton, Mass.
 Williams Stove Lining Co., Taunton, Mass.

Stove Linings (Asbestos)

Federal Asbestos Mfg. Co. (Cements), Alliance, Ohio
 Johns, H. W.-Manville Co. ("Phoenix," Dry Powder), 100 William, New York

Stove Mfrs.

ALABAMA.

AVONDALE—Avondale Stove & Fdy. Co.
 BIRMINGHAM—Standard Stove Works.
 BRIDGEPORT—Gunter Stove Works.
 FLORENCE—Cohen Stove & Range Co.
 Florence Stove Works
 GADSDEN—Agricola & Jones Mfg. Co.
 SHEFFIELD—King Stove & Range Co.
 Lowman, Lizzie Stove Works
 Sheffield Steel Range & Stove Co.

CALIFORNIA.

CORNING—Vaugh Range Mfg. Co.
 LOS ANGELES—Los Angeles Stove Co. ("Angelus")
 Pacific Stove Co. (Stoves & Ranges)
 SAN FRANCISCO—Graham, Jas. Mfg. Co., 27 Minna
 Stelger & Kerr Stone & Foundry Co. (Stoves, Ranges, etc.)

CONNECTICUT.

STAMFORD—Stamford Fdy. Co. (Parlor, Store, Factory & Laundry)
 Stamford Gas Stove Co. (Stoves, Ranges & Furnaces, etc.)

GEORGIA.

ATLANTA—Atlanta Stove Works
 Junction City Mfg. Co., Junction City, Ga.
 ROCKMART—Rockmart Stove & Foundry Co.
 ROME—Bowie Stove Co.
 Hanks Foundry Co.
 Southern Co-Operative Foundry Co.

ILLINOIS.

AURORA — Rathbone, Sard & Co. (Stoves, Ranges, Stationary & Portable)
 BELLEVILLE—Belleville Stove & Range Co.
 Eagle Foundry Co.
 Quality Stove & Range Co.
 Snyder & Baker Stove Co.
 Wilson Steel Range Co.
 BLOOMINGTON—Co-Operative Stove Co.
 CHICAGO—Allingham Stove Works, 2812 W. American Stove Co. (Geo. M. Clark & Co. Division), 82 Michigan av
 Chicago Stove Works, Blue Island av & Carmichael Range Co., 195 Kinzie 22d
 Cole Mfg. Co. ("Cole's" Hot Blast Stoves & Ranges), 3218 S Western av honl
 Cribben & Sexton Co., 50 Erie
 Detroit Stove Works (of Detroit, Mich.), 2921 Lasalle

Home Stove Works, W 18th pl c S Rockwell
 Mudd Mfg. Co., 135 S Clinton
 CHICAGO HEIGHTS—Bonnett-Nance Stove Co.
 Stoves, Iron & Steel Ranges, Base Burners & Wood & Coal Heaters, etc.)

NEW ATHENS—Anto Stove Works
 PEORIA—Culter & Proctor Stove Co.
 Western Stove Works (Furnaces, Stoves & Ranges)
 QUINCY—Channon-Emery Stove Co.
 Comstock-Castle Stove Co.
 Excelsior Stove & Mfg. Co. (Stoves & Ranges)

Gem City Stove Mfg. Co. (Ranges, Heaters
 Quincy Fdy. & Novelty Co. & Furnaces)
 Quincy Stove Mfg. Co.
 Sheridan Stove Mfg. Co.
 White, Thos. Stove Co.

ROCK ISLAND—Rock Island Stove Co.
 ST. CHARLES—Faultless Stove Works (Malleable Iron)

INDIANA.

ANDERSON—Central Stove & Foundry Co.

EVANSVILLE—Advance Stove Works
Evansville Stove Works (Stoves & Hollow
Indiana Stove Works Ware)
Southern Stove Works (Stoves & Ranges)
INDIANAPOLIS—Home Stove Co.
Indianapolis Stove Co., Roosevelt & Co-
lumbia avs
KOKOMO—Globe Stove & Range Co. (Steel
MARION—Hoosier Stove Co. Ranges)
NEW ALBANY—Anchor Stove & Range Co.
Goham Bros. & Kahler Co.
SOUTH BEND—Malleable Steel Range Co.
VINCENNES—Star Shovel & Range Co. (Ltd.)
Stoves, Ranges, etc.)

IOWA.

KEOKUK—American Stove & Range Co.

KANSAS.

LEAVENWORTH—Great Western Stove Co.

KENTUCKY.

COVINGTON—Insurance Stove, Range Foun-
dry Co.
LOUISVILLE—Bridgeford & Co., 1953 Portland
Fischer-Leaf Co. (Stoves & Ranges)
Graf-Webb Iron Mfg. Co., 1600 Magazine
Kentucky Stove Co., 1401 Delaware
O. K. Stove & Range Co. (Stoves, Ranges,
etc.), 238 W Main
Stratton & Terstegge Co. (Inc.), 728 W
Main

MAINE.

BANGOR—Noyes & Nutter Mfg. Co.
Wood & Bishop Co.
PORTLAND—Portland Stove Fdy. Co. (Stoves,
Ranges, etc.)

MARYLAND.

BALTIMORE—Armstrong Stove & Mfg Co.,
207 S Charles, Baltimore, Md.
Bibb, B. C. Stove Co., 109 Light
Heath, Chas. C. & Co., 14 N Howard
Sexton S. B. Stove & Mfg Co., 7 S Gay
Sheppard, Isaac A. & Co. (Furnaces,
Stoves & Ranges), 109 Commerce
Standard Supply & Equip Co., 306 N Hal-
liday
Welskettle, A. & Son, c Wash. & Alice-
anna
PERRYVILLE—Armstrong Stove & Mfg. Co.

MASSACHUSETTS.

BOSTON—Chilson Furnace Co. (Furnaces,
Ranges & Stoves), 88 Wash'n
Higland Fdy. Co., 1341 Columbus av
Magee Furnace Co., 36 Union
Smith & Anthony Co., 48 Union
Walker & Pratt Mfg. Co. (Furnaces,
Ranges & Stoves), 31 Union
NORTH DIGHTON—North Dighton Co-Op-
erative Stove Co.
OTTER RIVER—Lord Stone & Co.
PLYMOUTH—Plymouth Stove Fdy. Co.
SOMERSET—Somerset Stove Co.
TAUNTON—Dighton Furnace Co. (Stoves,
Thomas, Oscar G. Ranges, etc.)
Weir Stove Co.
White-Warner Co.

MICHIGAN.

CHELSEA—Chelsea Stove & Mfg. Co. (Gas &
DETROIT—Art Stove Co., 1545 Russell Oil)
Detroit Stove Wks. (Cooking & Heating for
Gas, Wood & Coal), 1320 Jeff'n av
Michigan Stove Co. (Steel & Cast), 1022
Jeff av
Peninsular Stove Co., 10th & W. Fort
DOWAGIAC—Beckwith, P. D. (Inc.) ("Ronnd
Oak" Heating Stoves & Furnaces)
GRAND RAPIDS—Michigan Stove & Caster
KALAMAZOO—Kalamazoo Stove Co. Co.
LAPEER—Bostick, A. & Son
OWOSSO—Independent Stove Co. ("Benown")

MINNESOTA.

MINNEAPOLIS—Northwestern Stove Co.
SHAKOPEE—Minnesota Stove Co.

MISSOURI.

HANNIBAL—Duff-Trowbridge Stove Co.
KANSAS CITY—Security Stove & Mfg. Co.
ST. LOUIS—American Stove Co., 414 N 6th
Bridge & Beach Mfg. Co., 501 S Main
Buck's Stove & Range Co., 3500 N 2d
Charter Oak Stove & Range Co., 1440 N
Hagy Stove Co., 1122 S 12th Main
Majestic Mfg. Co., 2016 Morgan

NEW HAMPSHIRE.

CONCORD—Ford, Wm. P. & Sons

NEW JERSEY.

DOVER—Richardson & Boynton Stove Co.
NEWARK—Thatcher Furnace Co. (Stoves &
Ranges, Portable & Stationary)
PHILLIPSBURG—Atlantic Foundry

NEW YORK.

ALBANY—Albany Fdy. Co.
Littlefield Stove Co., No Pearl & Pleasant
Rathbone, Sard & Co.
AMENIA—Fry, B. H.
BUFFALO—Buffalo Co-Operative Stove Co.
Jewett & Co.
CORNING—Corning Stove Co.
CORTLAND—Cortland Home Ventilating Stove
FRIENDSHIP—Costigan Mfg. Co. Co
Drake Hdw. Co.
GENEVA—Phillips & Clark Stove Co.
Summit Fdy. Co.
MANLIUS—Cheney, S. & Son
NEW YORK—Ahendroth Bros., 109 Beekman
American Stove Co., 356 Fourth av (Branch
of St. Louis, Mo., Office)
Boynton Furnace Co., 207 Water
Graft Furnace Co., 208 Water
Mott Iron Works, 118 Fifth av
Munsell, Eugene & Co., 68 Church
Southard-Robertson Co. (Stoves & Ranges
of All Kinds), 257 Water
Thatcher Furnace Co. (Stoves & Ranges,
Portable & Stationary), 110 Beekman
PEEKSKILL—Crane, Wm. M. & Co.
New York Stove Works
Southard, Robertson & Co.
Union Stove Works (Furnaces, Ranges,
PORT JERVIS—Swinton & Co. Heaters, etc.)
ROCHESTER—Co-Operative Fdy. Co.
Galusha Stove Co.
Sill Stove Works
SYRACUSE—Syracuse Stove Works ("Ker-
nan-Welcome," Stoves, Ranges & Fur-
naces)
TROY—Brndett-Smith & Co.
Fuller & Warren Co.
Gold Coin Stove Co.
UTICA—Giblin & Co. (Stoves & Ranges)
Phoenix Iron Works, 181 Blandina
WEST TROY—West Side Foundry Co.

NORTH CAROLINA.

GREENSBORO—Glascock, Stove & Mfg. Co.
(Cooking & Heating Stoves)

OHIO.

AKRON—Taplin-Rice-Clerkin Co. (Climax
Stoves & Ranges)
Taplin-Rice-Clerkin Co. (Climax Stoves &
BELLAIRES—Bellair Stove Co. Ranges)
CINCINNATI—Huenefeld, E. H. Co. (Inc.)
(Also Ranges, "Boss," "Unedda," "Suc-
cess" & "Selma")
Klaine, F. A. & Co., Front & Central av
Knecht, Victor Co. ("Jumbo"), 819 Wade
Miller, Wm. Range & Fur. Co., 125 E 5th
Monitor Stove & Range Co. ("Monitor"
Radiator Heating Stoves)
Resor, Wm. & Co., c H. & D. Ry nr Gest
Schulte, Jno. A. & Co., 2619 Colerain av
American Range & Foundry Co.
CLEVELAND—American Range & Fdry. Co.
Cleveland Co-Operative Stove Co., 1230 Cen-
tral av
COLUMBUS—Emrich, C.
Hertenstein, M. & Co.
Lattimer-Williams Mfg. Co. (L. W. Stoves
& Ranges), Columbus, O.
Pioneer Stove Co.
DAYTON—Gen City Stove Co.
Kinsey Mfg. Co.
ELYRIA—Fox Furnace Co. (Furnaces, Ranges
FOSTORIA—Atlas Mfg. Co. & Stoves)
GALLIPOLIS—Thompson & Francis Stove Co.
Treasure Stove Co.
HAMILTON—Kahn, F. & L. & Bros.
HILLSBORO—Bell, C. S. Co. (Heavy Heating
IRONTON—Foster Stove Co. & Caboose)
MANSFIELD—Baxter Stove Co.
Eclipse Stove Co. (Stoves & Ranges)
MARIETTA—Marietta Mfg. Co.
Nye, A. T. & Son Co.
MARTINS FERRY—Spence-Baggs Stove Co.
MASSILON—Hess, Snyder Co. (Heating & Cook-
ing, Boomer)
NEWARK—Wehrle Co. (Stoves & Ranges)
PIQUA—Favorite Stove & Range Co.
PORTSMOUTH—Ohio Stove Co.
Portsmouth Stove & Range Co.
SALEM—Victor Stove Co.
Woodruff, J. & Sons (Stoves & Ranges)

SPRINGFIELD—Mentels, Theo., Progress Fur-
nace & Stove Co.

TIFFIN—Herrmann & Myers
TOLEDO—Toledo Stove & Range Co. ("Gem"
Stoves & Ranges)
YOUNGSTOWN—Youngstown Furnace & Sup-
ply Co.
Youngstown Stove & Range Co.
ZANESVILLE—Jones, Chas. H.
Union Foundry Stove Co.

OREGON.

PORTLAND—Airtight Stove Co., 312 1st
SALEM—Loewenberg & Going Co.

PENNSYLVANIA.

ALLEGHENY—Pittsburg Stove & Range Co.,
Robinson & Darragh
BEAVER FALLS—Howard Stove Co.
BRISTOL—Harkins, T. B. Foundry Co. (Stoves,
Ranges & Furnaces)
CANONSBURG—Simpson Stove & Mfg. Co.
COLUMBIA—Keeley Stove Co. ("Columbian"
Stoves, Ranges & Furnaces)
CONSHOHOCKEN—Messinger's, H. C. Sons
DANVILLE—Danville Stove & Mfg. Co.
ERIE—Germer Stove Co.
South Erie Iron Works
LEBANON—Lebanon Stove Works.
LEHIGHTON—Lehigh Stove & Mfg. Co.
MIDDLETOWN—Raymond Mfg. Co.
PHILADELPHIA—Cox, Ahram Stove Co.,
American c Dauphin
Diller, Caskey & Co., 6th cor Berks
Liberty Stove Co., 114 N 2d
Phila. Stove & Iron Foundry Co. (Furnaces,
Stoves & Ranges), 1631 N 5th
Sheppard, Isaac A. & Co. (Furnaces, Stoves
& Ranges), 1801 N 4th
Thomas, Roberts, Stevenson & Co., 3rd &
McKean
PITTSBURG—Bartlett Furnace & Range Co.,
805 Liberty av
Stove & Range Co. of Pittsburg.
PITTSBURG—Pittston Stove Co. (Stoves,
Ranges, etc., "Pittston" & "Happy
Thought")
POTTSTOWN—March-Brownback Stove Co.
("Globe" Ranges, etc.)
QUAKERTOWN—Roberts, Winner & Co.
READING—Mt. Penn Stove Co.
Prizer-Painter Stove & Heater Co. (Stoves
& Heaters)
Reading Stove Works ("Sunshine" Stoves,
Ranges & Heaters)
ROCHESTER—Olive Stove Works
ROYERSFORD—Buckwalter Stove Co. (Stoves,
Floyd-Wells Co. Ranges, Furnaces, etc.)
Grander Stove Co. (Stoves, Portable &
Brick Set Ranges, Heaters & Furnaces)
SCRANTON—Scranton Stove Wks
SINKING SPRINGS—Sinking Springs Foundry
Co.
SPRING CITY—Keystone Stove Foundry
(Ranges, Heaters, etc.)
Yaeger-Hunter Spring City Stove Works
YORK—Broomell, Schmidt & Stacy Co. (Inc.)
(Heating Cook House, Heating from Kitchen
Fire)

RHODE ISLAND.

PROVIDENCE—Barstow Stove Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Stove Co.
Gibson-White Co.
Mountain City Stove Mfg. Co.
Price-Evans Foundry Co. ("Coal King")
CLEVELAND—Hardwick Stove Co.
KNOXVILLE—Fair Foundry Co.
MEMPHIS—Wetter H. Mfg. Co. (Stoves,
Ranges, etc.), Works: South Pittsburg,
Tenn.
White, John & Son, 645 Dunlap av
NASHVILLE—Phillips & Buttorff Mfg. Co.
SOUTH PITTSBURG—Blacklock Fdy. Co.
Wetter, H. Mfg. Co.

VIRGINIA.

NORFOLK—Columbia Stove Co.
RICHMOND—Cameron Stove Co.
Continental Stove Co.
Richmond Pattern & Structural Iron Wks.
Richmond Stove Co. (Stoves & Ranges)
Southern Stove Works.
WAYNESBORO—Loth, W. J. Stove Co.

WEST VIRGINIA.

HUNTINGDON—Huntingdon Stove & Foundry
Co.
RICHMOND—Richmond Pattern Wks (Stoves
& Ranges)
WHEELING—Wheeling Stove & Range Co.

WISCONSIN.

BEAVER DAM — Malleable Iron Range Co.
LA CROSSE—Summit Stove Co. (Ranges)
MILWAUKEE — Brand Stove Co. (Stoves,
Ranges, etc.)
Fuller-Warren Co. (Ranges, Stoves, etc.)
Lindemann, J. P. & Sons, 5000 State
Milwaukee Stove & Heater Co., 100 W
NEENAH—Bergstrom Bros. Water

Stove Mats

Federal Asbestos Mfg. Co. (Asbestos), Alliance,
Ohio
Oil City Asbestos Co., Oil City, Pa.

Stove Pipe & Elbow Mfrs.

Budke Mfg. Co. ("Acme" Stove Pipe & Knock
Down Stove Pipe & Four Piece Adjust-
able & Corrugated Elbows, etc.), Parkers-
burg, W. Va.
Chattanooga Roofing & Fdry. Co., Chattanooga,
Tenn.
Cleveland Elbow Co., 39 Center, Cleveland, O.
Dieckmann, Ferdinand Co., Cincinnati, O.
Dover Stamping & Mfg. Co., Cambridge, Mass.
EDWARDS MFG. CO. (Nested), 545-
565 Eggleston av., Cincinnati, O. (See adv.
index, end of book)
Excelsior Steel Furnace Co., 40 W Monroe,
Chicago, Ill.
Grinberg Bros., 154 South, New York
Hemp & Co., St. Louis, Mo.
Indianapolis Corrugating Co., Indianapolis, Ind.
Jackes-Evans Mfg. Co., St. Louis, Mo.
Lawrence-Letts Elbow Co. ("O. H."), Wa-
verly, N. Y.
Niles Iron & Steel Roofing Co., Niles, O.
Ohio Stove Pipe & Mfg. Co. ("Smith's" Dou-
ble Lock Nested), New Phila., Ohio
Reeves Mfg. Co., Canal Dover, O.
Republic Metalware Co., Buffalo, N. Y.
Sheet Metal Mfg. Co., Niles, O.
Troy Stamping Works, Troy, N. Y.
Wheeling Corrugating Co., Wheeling, W. Va.
Winfield Mfg. Co., Warren, O.
Woods-Dvertz Stove Co., Springfield, Mo.

Stove Polish

A. B. Polish Co. ("A. B."), 14 Haddon av.,
Chicago, Ill.
Black Silk Stove Polish Works ("Black Silk"),
Sterling, Ill.
Cambria Paint & Color Co. (Ltd.) ("Sherman's"
Liquid), Johnstown, Pa.
Clark, Geo. M. & Co. ("Jewell"), 82 Mich-
igan av., Chicago, Ill.
Cullen, F. C. & Co. ("Aluminine"), 704 W
Lake, Chicago, Ill.
Detroit Stove Polish Co. ("Ebony"), Detroit,
Mich.
DIXON, JOS. CRUCIBLE CO. ("Dix-
on's" Graphite of Iron), Jersey City, N. J.
(See adv. index & branch offices, end of book)
Ebonine Mfg. Co., Kennebunk, Mass.
Morse Bros. ("Rising Sun"), Canton, Mass.
Nickel Plate Stove Polish Co. ("Black Kid"),
461 Illinois, Chicago, Ill.
Rath Mfg. Co. ("Imperial"), Hedley & Rich-
moud, Phila., Pa.
RUTLAND FIRE CLAY CO., Rutland,
Vt. (See adv. index & branch offices, end
of book)
Satlin Gloss Polish Co., Portland, Me.
Tarbox Mfg. Co. ("Tarbox" Stove Gloss), New
London, Conn.
United States Graphite Co., Saginaw, Mich.

Stove Trimmings

Amerlean Tube & Stamping Co. (Nickel-Plated
Steel Stove Edge), Bridgeport, Conn.
Burdick & Son (Specialties), Albany, N. Y.
Dary, Marcus A., Taunton, Mass.
Fanner Mfg. Co., Cleveland, O.
Gaitley, Jno. B. Troy Nickel Works ("Alas-
ka"), Albany, N. Y.
Ireland & Matthews Mfg. Co. (In All Metals),
Detroit, Mich.
Matthews Mfg. Co., Worcester, Mass.
N. Y. Nickel Plating & Mfg. Co., 125 Watts,
New York
Price-Evans Foundry Co., Chattanooga, Tenn.
Seovill Mfg. Co., Waterbury, Conn.
Troy Nickel Works (Jno. B. Gaitley, Prop.)
("Alaska"), Albany, N. Y.
WORCESTER PRESSED STEEL CO.
(Brass & Steel Knobs, etc.), Worcester,
Mass. (See adv. index, end of book)

Stoves (Acetylene)

Davis Acetylene Fixture & Supply Co. (Also
Ranges & Heaters), Elkhart, Ind.

Harris, J. Co. (Also Ranges), Cleveland, O.
Wallace Mfg. Co. (Heating & Cooking), Olm-
sted Falls, O.

Stoves (Alcohol)

Buffalo Mfg. Co. (Burning Denatured Alco-
hol), Buffalo, N. Y.
Houchin, Thos. W. ("Sunburst"), 341 B'way,
New York
Howler Mfg. Co. (Denatured), Montgomery,
Ala.

Stoves (Alcohol Vapor)

Landers, Frary & Clark ("Universal"), New
Britain, Conn.

Stoves (Brass Founders' Drying)

Barnett, Oscar Foundry Co. (Round & Square),
Newark, N. J.

Stoves (Caboose)

Bell, C. S. Co. (Also Heavy Heating), Hills-
boro, Ohio
Buda Foundry & Mfg. Co. ("Volcano,"
"Lewis"), Railway Exchange bldg., Chi-
cago, Ill. Works, Harvey, Ill.
Michigan Stove Co., Detroit, Mich.
Stove & Range Co. of Pittsburg, Pittsburg, Pa.
WILSON, F. CORTEZ & CO. (Freight Car
Heaters), 239 Lake, Chicago, Ill. (See adv.
index, end of book)
Youngstown Furnace & Supply Co., Youngs-
town, O.

Stoves (Car)

Buda Foundry & Mfg. Co. ("Volcano,"
"Lewis," "Giant," Car-Way Caboose &
Station), Railway Exchange bldg., Chicago,
Ill. Works, Harvey, Ill.
Germer Stove Co. ("Radiant," Car Furnace),
Erie, Pa.
McGuire-Cummings Mfg. Co., 122 N Sangamon,
Chicago, Ill.
Michigan Stove Co., Detroit, Mich.
Murray Iron Works Co., Burlington, Ia.
Peninsular Stove Co., Detroit, Mich.

Stoves (Confectioners')

Mount Peun Stove Works, Reading, Pa., &
11 N 2d, Philadelphia, Pa.
Peninsular Stove Co., Detroit, Mich.
White, Chas. H. & Co. (Gas or Coal), 22 Bow-
ker, Boston, Mass.

Stoves (Gasoline)

American Stove Co. ("Quick Meal," "Jewell"
& "Monarch"), 414 N 6th, St. Louis, Mo.
Champion Foundry & Foundry Co., Burlington,
Ia.
Clark, Geo. A. & Co. ("Jewell"), 72 Lake,
Cook Mfg. Co., Albion, Mich. Chicago, Ill.
Grand Rapids Stove Co., Grand Rapids, Mich.
Insurance Foundry Co., Covington, Ky.
Kinsey Mfg. Co. ("Kinwood"), Dayton, O.
Rutherford, J. & Son, Akron, O.
Sun Vapor Stove Mfg. Co., Detroit, Mich.
Toledo Cooker Co., ("Ideal"), Toledo, O.

Stoves, Heaters & Ranges (Gas)

Abendroth Bros. Corp. ("York" Ranges), 109
Beekman, New York
Albany Foundry Co. ("Argand" Ranges), Al-
bany, N. Y.
American Beauty Gas Stove Co. ("American
Beauty"), Erie, Pa.
American Stove Co. ("Quick Comfort" Heaters
& "Reliable" & "Jewell" Stoves), St.
Art Stove Co., Detroit, Mich. Louis, Mo.
Bartlett, J. C. Co., Pittsburg, Pa., & West
Newton, Pa.
Block, Israel, 137 W. 118th, New York
Brand Stove Co. ("Famous" Gas Ranges),
Milwaukee, Wis.
Bryan Mfg. Co. ("Bryan"), 1900 F'kd av., Bal-
timore, Md.
Central Oil & Gas Stove Co. (No Ranges),
Gardner, Mass.
Chelsea Stove & Mfg. Co., Chelsea, Mich.
Clark, Geo. M. & Co. ("Jewell"), 82 Mich-
igan av., Chicago, Ill.
Cleveland Foundry Co. (Stoves & Ranges),
Cleveland, O.
Co-operative Foundry Co., Rochester, N. Y.
Co-Operative Stove Co. ("Amherst" Ranges),
Buffalo, N. Y.
Crane, Wm. M. Co. (Stoves, Heaters & Ran-
ges; also Coal), 16 N 32d, New York

Cutter & Proctor Stove Co. ("Regal Peoria"),
Peoria, Ill.
Dangler Stove Co. ("Gem"), Cleveland, O.
Denison Mfg. Co. (For House Only), Warren,
Ohio
Detroit Heating & Lighting Co. (Stoves &
Ranges), Wight nr Leib, Detroit, Mich.
Detroit Stove Works (Stoves & Ranges), De-
troit, Mich.
Detroit Vapor Stove Co., 419 Franklin, Detroit.
Eclipse Gas Stove Co., Rockford, Ill. Mich.
Economy Stove Co. ("Economy" Ranges), Cleve-
Erie Stove & Mfg. Co., Erie, Pa. land, O.
Estate Stove Co. ("Estate" Gas Ranges),
Hamilton, O.
Favorite Stove & Range Co. ("Favorite"
Ranges), Piqua, O.
Gem City Stove Co. ("Clermont" & "Perfect"),
Dayton, O.
Gem City Stove Mfg. Co., Quincy, Ill.
Gilbert & Barker Mfg. Co. ("Astral"), Spring-
field, Mass.
Goldstein, Jos., 323 Pearl, New York
Griswold Mfg. Co. ("Classic"), Erie, Pa.
Hermeyer Stove Co., Tiffin, O.
Hoerlein, F. G. (Bakers' Gas Stoves), 806 Myr-
tle av., B'klyn, N. Y.
Hoopmau & Pearce (Gas Stoves), Byesville,
Ohio
Hydraulic Co. ("Essex"), 8 Lum, Newark,
N. J.
Ideal Mfg. Co. (Ranges Only), 546 Franklin,
Detroit, Mich.
Independent Register & Mfg. Co., Cleveland, O.
Johnson Machine Co., Uulontown, Pa.
Kalamazoo Stove Co. ("Kalamazoo" Ranges),
Kalamazoo, Mich.
Kaufman, A. G. Mfg. Co. ("Radion" Porta-
ble Gas Jet, Heater & Cooking Stove), 133
Reade, New York
Kinsey Mfg. Co., Dayton, O.
Klaine, F. A. & Co. ("Good Will" Ranges),
Cincinnati, Ohio
Klingelhoffer, Wm. & Co. ("Perfect"), 1428
5th av., Pittsburg, Pa.
Lev, John P., 244 Water, New York
Lindeman, A. J. & Hoverson Co. (Ranges), Mil-
waukee, Wis.
Los Angeles Stove Co., Los Angeles, Cal.
Manhattan Gas Heating Co. ("Manhattan"),
909 7th av., New York
Maryland Foundry Co. (A. Welskittle & Son,
Prop'rs), Baltimore, Md.
Maryland Meter Co., North & Saratoga, Balti-
more, Md.
Michigan Stove Co. ("Garland"; also Appli-
ances), Detroit, Mich.
Milwaukee Gas Stove Co., 139 Burrell ("Per-
fection"), Open Grate & Heaters, Milwaukee,
Wis.
Monitor Stove & Range Co. ("Monitor"
Ranges), Cincinnati, Ohio
Mountain State Gas Stove Mfg. Co., Mounds-
ville, W. Va.
Munsell, Eugene & Co., 68 Church, New York
National Enameling & Stamping Co., 374
B'way, New York, & St. Louis, Mo.
National Light & Heating Co. (Stoves, etc.),
Freeport, O.
New Method Co. (For Natural Gas Heating &
Cooking), Mansfield, O.
New York Gas Stove Works, 243 Water, New
York
Novelty Mfg. Co. (Heaters Only), Jackson,
Olin Stove Mfg. Co., Erie, Pa. Mich.
Peerless Stove & Range Co. ("Radium,"
"Peerless"), Columbus, O.
Peninsular Stove Co., 10th & W Fort, Detroit,
Mich.
Perfect Gas Stove Mfg. Co. ("Wilson" Odo-
less), Huntington, W. Va.
Phillips Gas Stove Works, 420 E 8th, Cincin-
nati, O.
Plume & Atwood Mfg. Co., Waterbury, Conn.
Progress Furnace Co., Springfield, O.
Quad Stove Mfg. Co. ("Quad" Ranges), Colum-
bus, Ohio
Rathbone, Sard & Co. ("Acorn" Gas Ranges,
etc.), Albany, N. Y., & Aurora, Ill.
Republic Stove Mfg. Co. ("Republic" Ranges),
Cleveland, Ohio
Roberts & Mander Gas Stove Co. ("Quality"
Ranges), Phila., Pa.
Rund Mfg. Co., 307 Wood, Pittsburg, Pa.
Rutherford, J. & Son, Akron, O.
Schneider & Trenkamp Co. ("Reliable"
Ranges, Heaters, Stoves & Gas Water
Heaters), Cleveland, O.
Scranton Stove Works ("Dockash" Ranges),
Scranton, Pa.
Searchlight Mfg. Co. (Ranges), Mount Pleasant,
Pa.
Sheppard, Isaac A. & Co. ("Imperial," "Ex-
celsior" Ranges), 4th & Montgomery av
Sheridan Stove Mfg. Co., Quincy, Ill.
Sherman Stove Co., Quincy, Ill.
Silver & Co. (Inc.), 312 Hewes, Brooklyn, N. Y.
Snodgrass Mfg. Co., Idlewood, Pa.

Southard-Robinson Co., 257 Water, New York
 Stamford Gas Stove Co., Stamford, Conn.
 Standard Lighting Co. ("New Process" Visible Gas Ranges), Cleveland, O.
 Star Foundry Co., Covington, Ky.
 Stephenson Mfg. Co. ("Zenith" Ranges), Allegheny, Pa.
 Strand Heater Co. ("Strand" Gas Heater), Cleveland, Ohio
 Sunray Stove Co. ("Sunray"), Newark, Ohio
 Taylor & Boggis Foundry Co. (Stoves Only), Cleveland, Ohio
 Thomas-Roberts-Stevenson Co. ("Fortune" Ranges), 3rd & McKean, Phila., Pa.
TURNER & SEYMOUR MFG. CO.
 (Gas Heaters & Stoves Only), Torrington, Conn. (See adv. index, end of book)
 Union Stove Works ("Astor" Radiator), 70 Beckman, New York, & Peekskill, N. Y.
 Wallace Mfg. Co. (Ranges), Pittsburg, Pa.
 Warren Stove Co. (Steel Ranges), Warren, Ohio.
 Welskittle & Son ("Fire King" Gas Radiator), Aliceanna & Wash'n, Baltimore, Md.
 White, Thos., Stove Co. ("Bacon"), Quincy, Ill.
 Wonder Mfg. Co. ("Wonder" Ranges), Washington C. H., Ohio
 Youngstown Furnace & Supply Co., Youngstown, O.

Stoves (Hot Blast)

Scaife Foundry & Machine Co., Pittsburg, Pa.
 Peninsular Stove Co., Detroit, Mich.
 Pittsburg Steel Construction Co., Lewis Block, Pittsburg, Pa. Works, Economy, Pa.
 Youngstown Furnace & Supply Co., Youngstown, O.

Stoves (Laundry)

Adams Laundry Machinery Co., 1935 6th av. Troy, N. Y.
 American Stove Co. (Gas) St. Louis, Mo.
 Belleville Stove & Range Co., Belleville, Ill.
 Crane, W. M. Co., 16 W 32nd, New York
 Detroit Stove Works ("Paragon"), Detroit, Mich.
 Eclipse Stove Co., Mansfield, O.
 Flischer, Wm. G. Stove & Range Co., 223 W 3d, Cincinnati, Ohio
 Excelsior Stove & Mfg. Co., Quincy, Ill.
 Hawkins, Rollyn Co., Indianapolis, Ind.
 Its, John G. & Co., San Francisco, Cal.
 Illinois Malleable Iron Co. ("Imico" Heater), 515 Diversey Boul. Chicago, Ill.
 Malleable Steel Range Mfg. Co., South Bend, Ind.
 Mahony Mfg. Co., Troy, N. Y.
 Michigan Stove Co., Detroit, Mich.
 Miller, Wm. Range & Furnace Co., 125 E 5th, Cincinnati, O.
 Moser, M. J. & Co., W Troy, N. Y.
 Novelty Iron Co. ("Our Own," "Chicago"), Canton, O.
 Pierce, Butler & Pierce ("Little Giant"), Syracuse, N. Y.
 Peninsular Stove Co., Detroit, Mich.
 Rollyn, Hawkins Co., 326 E Market, Indianapolis, Ind.
 Stephenson Mfg. Co. ("Zenith"), Allegheny, Pa.
 Walker & Pratt Mfg. Co., 33 Union, Boston, Mass.

*Stoves (Masons')

DROUVE, G. CO., 40 Tulip, Bridgeport, Conn. (See adv. index, end of book)

Stoves (Oil)

(See Stoves & Heaters, Oil)

Stoves (Plasterers')

DROUVE, G. CO., 40 Tulip, Bridgeport, Conn. (See adv. index, end of book)
 Eagle Iron Works (Inc.), ("May's"), 850 De Kalb av., Brooklyn, N. Y.
 Fleck, M., 442 Pleasant av., New York
 Union Elevator & Machine Co., 144 Ontario, Chicago, Ill.
 White, Chas. H. & Co. (Coal or Coke), 22 Bowker, Boston, Mass.

Stoves (Sand Drying)

(See Sand & Gravel Heaters & Dryers)

Stoves & Heaters (Oil)

American Stove Co. ("Quick Meal," "Reliable"), 414 N 6th, St. Louis, Mo.
 Barler, A. C. Mfg. Co. ("Barler Ideal"), 104 Lake, Chicago, Ill.
 Bradley & Hubbard Mfg. Co. ("B. & H."), Meriden, Conn.
 Central Oil & Gas Stove Co. ("Florence"), Gardner, Mass.
 Chelsea Stove & Mfg. Co., Chelsea, Mich.

Chicago Wheel & Mfg. Co. ("Gem"), 330 W Monroe, Chicago, Ill.
 Cleveland Foundry Co. ("Puritan" Cooking & Heating), 63 Platt, Cleveland, O.
 Coldwater Oil Stove Co., Coldwater, Mich.
 Dangler Stove Co., Cleveland, O.
 Goldstein, Jos., 323 Pearl, New York
 Griswold Mfg. Co., Erie, Pa.
 Hydrocarbon Burner Co. ("Khotal"), 197 Fulton, New York
 Kinne Mfg. Co. ("Perfection"), 1124 S 3rd, Minneapolis, Minn.
 Kinsey Mfg. Co., Dayton, O.
 Los Angeles Stove Co., Los Angeles, Cal.
 Manhattan Brass Co., 338 E 28th, New York
 Maryland Foundry Co. ("The King") (A. Weiskittle & Son, Prop'rs), Baltimore, Md.
 Michigan Hardware Mfg. Co. ("Blue Flame" Oil Stoves), Grand Rapids, Mich.
 Miller, Edw. & Co. ("Miller" Kerosene Heaters), Meriden, Conn., & 28 W B'way, New York
 National Enameling & Stamping Co., 374 B'way, New York, & St. Louis, Mo.
 National Stove Co. (American Stove Co.), Lorain, O.
 New York Gas Stove Works ("The King"), 243 Water, New York
 Niagara Oil Stove Co., North Tonawanda, N.Y.
 Novelty Mfg. Co. ("Alumino & Electric"), Jackson, Mich.
 Plume & Atwood Mfg. Co. ("Banner"), Waterbury, Conn.
 Rochester Lamp Co. ("Rochester"), 38 Park pl., New York
 Rose, C. G. (Stoves), Jeffersonville, Ind.
 Silver & Co. (Inc.), 312 Heyes, Brooklyn, N. Y.
 Standard Lighting Co. ("New Process"), 11 Perkins, Cleveland, O.
 Standard Oil Co. ("Perfection"), 555 W 25th, New York
 Stillman Safety Lamp Co. ("Stillman" Non-Explosive), 68 Murray, New York
 Taylor & Boggis Fdry. Co. (Stoves), Cleveland, Ohio
 Toledo Cooker Co. ("Ideal"), Toledo, O.
 Weiskittle, A. & Son ("Fire King"), Aliceanna & Wash'n, Baltimore, Md.
 Wotherspoon, Jas. R., 238 N Front, Phila., Pa.

Stoves & Ranges (Gas)

(See Stoves, Heaters & Ranges, Gas)

Straddler for Embedding Tie Plates

Pittsburg Tool & Drop Forge Co. ("Cheswick"). Works, Cheswick, Pa

Straight Edges

Athol Machine Co. (Steel Hardened & Ground), Athol, Mass.
 Atkins, E. C. & Co. (Inc.), Home Offices & Factories, Indianapolis, Ind.
 Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
 Brown & Sharpe Mfg. Co. (Cast Iron, Knife Edge, Steel Hardened & Ground), Providence, R. I.
COVEL MFG. CO. (Saw), Benton Harbor, Mich. (See adv. index, end of book)
 Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
 Hub Machine & Tool Co. (Cast Iron), 621 Cherry, Phila., Pa.
 Keuffel & Esser Co. (Steel Flexible), 127 Fulton, New York
 Massachusetts Tool Co. (Steel Hardened & Ground), Greenfield, Mass.
 Pratt & Whitney Co. (Knife Edge), Hartford, Conn.
 Rogers, John M. Works (Cast Iron), Gloucester City, N. J.
 Sawyer Tool Mfg. Co. (Steel Hardened & Ground), Fitchburg, Mass.
 Simonds Mfg. Co., Fitchburg, Mass.
 Standard Tool Co., Cleveland, O.
STARRETT, L. S. CO. (Steel Hardened & Ground), Athol, Mass. (See adv. index & branch offices, end of book)

*Straighteners (Core Wire)

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

*Strainers (Brass, Overflow)

VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)

Strainers (Conductor & Eave Trough)

BERNZ, OTTO, S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)
CANTON MFG. CO., Canton, Ohio. (See adv. index, end of book)
 Coldwater Specialty Mfg. Co., Coldwater, Mich.
EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O. (See adv. index, end of book)
 Hamblin & Russell Mfg. Co., Worcester, Mass.
MILWAUKEE CORRUGATING CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Strainers (Galvanized Flanged)

ABENDROTH & ROOT MFG. CO., Newburgh, N. Y. (See adv. index and branch offices, end of book)

*Strainers (Gasoline)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Strainers (Gutter)

(See Strainers, Conductor & Eave Trough)

Strainers (Hose)

Elkhart Brass Mfg. Co. (Brass Suction for Fire Dep't), Elkhart, Ind.
 Hancock Inspirator Co., The, 85 Liberty, New York

*Strainers (Injector)

LUNKENHEIMER CO., General Offices & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Strainers (Pipe)

CENTRAL FOUNDRY CO., 37 Wall, New York. (See adv. index, end of book)
 Mueller, H. Mfg. Co., Decatur, Ill.
 Pancoast, Henry B. & Co. ("Extra Leaky"), 243 S 3d, Phila., Pa.

Strainers (Sink)

Andrews Wire & Iron Works ("Vrooman's"), Rockford, Ill.
 Barber Mfg. Co. (Painted & Enameled), Ash-tabula, O.
 Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.
 Elite Strainer Mfg. Co., Cleveland, O.
 Frost Mfg. Co. (Basin & Sink), Kenosha, Wis.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 National Mfg. Co. (Wire), Worcester, Mass.
 Parker Wire Goods Co. (Wire), Worcester, Mass.
 Pritchard-Strong Co. ("Trisco"), Rochester, N. Y.
VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)
 Wire Goods Co., Worcester, Mass.

Strainers (Suction)

Liberty Mfg. Co. ("Liberty" Twin), 6509 Susquehanna, Pittsburg, Pa.
 Uncas Specialty Co. ("Leavitt"), Norwich, Conn.

Strainers (Urinal)

Hach, Richard G. ("Hach"), 159 E 26th, New York

Strainers & Separators (Gasoline)

Ross Mfg. Co. ("Boss"), Atlantic, Mass.
 Breeze Carbureter Co. ("Breeze"), 28 Main, Newark, N. J.
 Columbus Brass Co., 41 N 4th, Columbus, O.

Fairmount Engineering Co. ("Chadwick"),
3205 Spring Garden, Phila., Pa.
Hatcher Auto Parts Co., 138 Viaduct, Cleve-
land, O.
Winkley Co. ("Eureka"), Detroit, Mich.

*Strand (Stone Sawing)

TRENTON IRON CO., Trenton, N. J.,
& 30 Church, New York. (See adv. in-
dex, end of book)

*Straps (Baggage Check)

AMERICAN RAILWAY SUPPLY CO.,
26 Park pl, New York. (See adv. index,
end of book)

Straps (Anchor)

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.
WISCONSIN IRON & WIRE WORKS, 190
E Water, Milwaukee, Wls. (See adv. in-
dex, end of book)

Straps (Beam, Electric)

Steel City Electric Co., Pittsburg, Pa.

Straps (Crate)

(See Box Straps)

*Straps (Deckle)

BOSTON BELTING CO. (For Foundriner
Paper Machines), 260 Devonshire, Boston,
Mass. (See adv. index & branch offices,
end of book)

Straps (Pipe)

American Pin Co. (Brass), Waterbury, Conn.
Berger Bros. Co., 237 Arch, Philadelphia, Pa.
Boston Brass Co., 36 Oliver, Boston, Mass.
Cann & Saul, 516 Commerce, Phila., Pa.
Devlin, Thos. Mfg. Co. (Malleable Iron), 3d &
Lehigh av, Phila., Pa.
Diamond Stamped Ware Co., Detroit, Mich.
Falls Mfg. Co., San Francisco, Cal.
Fee & Mason, 81 Beekman, New York.
Grabler Mfg. Co., Cleveland, O.
Illinois Malleable Iron Co., 515 Diversity boul,
Chicago, Ill.
Lalanc & Crosjean Mfg. Co. (Wrought Steel,
Gas, etc.), 299 B'way, New York
Smith & Egge Mfg. Co. (Single & Double),
Bridgeport, Conn.
Steele & Johnson Mfg. Co., Waterbury, Conn.
Wall, P. Mfg. Supply Co., Pittsburg, Pa.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.
Wolverine Brass Works (Tinned), Grand Rap-
ids, Mich.

*Straps (Pitman)

WHITMAN & BARNES MFG. CO.
(Iron & Wood for Agl. Impls.), West
Pullman, Chicago, Ill. (See adv. index
& branch offices, end of book)

Straps (Pole)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Continental Bolt & Iron Works, 22d & Union,
Chicago, Ill.
Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.

Straps (Skate, Trunk, Blanket, Etc.)

Graton & Knight Mfg. Co., Worcester, Mass.
HUDSON BELTING CO. (Trunk, etc.),
Worcester, Mass. (See adv. index, end of
book)
Kelton-Bruce Mfg. Co., Salem, Mass.
Kirby Mfg. Co., Middletown, Conn.
National Leather Mfg. Co., Niles, Mich.
Page Belting Co., Concord, N. H.

Straps (Street Car)

McOlinchic, Uriah, 152 E 23d, New York
Rhoades, J. E. & Son, 12 N 3d, Phila., Pa.

Straps (Timber)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Kansas City Bolt & Nut Co. (Also Bridge),
Kansas City, Mo.

Strawboard Mfrs.

(For Other Manufacturers in this Line, see
Paper & Pulp Mills)

Barrett Mfg. Co. (Plain & Tarred), Land Title
Bldg., Phila., Pa.
Eastern Straw Board Co., Manchester, Conn.

Street Lighting

Automatic Incandescent Light Co., Northboro,
Mass.
Best Light Co., Canton, O.
Welsbach Street Lighting Co. (of America),
Broad & Arch, Phila., Pa., & Chicago, Ill.

Street Lighting (Sun Vapor)

(See Lamps, Incandescent Vapor Gas)

Street Railway Sprinkling Cars

(See Cars, Sprinkling, Street Railway)

Street Railway Sweeping Machines

(See Machines, Street Railway Sweeping)

Street Sprinkler Wagon Tanks

Acme Road Machinery Co., Frankfort, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)
Littleford Bros., 455 E Pearl, Cincinnati, O.

Street Sprinkling Carts & Wagons

Abbott, Downing Co., Concord, N. H.
Acme Road Machinery Co., Frankfort, N. Y.
Austin Mfg. Co., Manhattan Bldg., Chicago, Ill.
Etmyre, E. D. & Co., Oregon, Ill.
Klsinger-Ison Co., 466 Plouer, Cincinnati, O.
Lansing Wheelbarrow Co. (Carts), Lansing,
Mich.
Longenecker, Chas. & Co., 150 Nassau, New
York
Sherman, I. N. W., 144 S Green, Chicago, Ill.
Stdebaker Bros. Mfg. Co., South Bend, Ind.
Universal Road Machinery Co., 120 Liberty,
New York
Winkler Bros. Mfg. Co., South Bend, Ind.
Winship Mfg. Co., Racine, Wis.
Woodhouse, J. S., 191 Water, New York

Street Sweepers (Hand)

Barron Jas. S. ("Peerless," for Street Piers,
Factory, Platform, etc.), 129 Franklin, New
York
Sanitary Street Cleaning Co. ("Peerless"
Pickups), Washington, D. C.
STROUD, E. H. & CO., 36 LaSalle, Chi-
cago, Ill. (See adv. index, end of book)

Street Sweeping Bag Carriers

(See Carriers, Can & Bag, Street Sweeping)

Street Sweeping Machines

(See Machines, Street Sweeping)

*Stretchers (Box Strap)

CARY MFG. CO. ("Cary's"), 19
Roosevelt, New York. (See adv. index,
end of book)

Stretchers (Carpet)

Arcade Mfg. Co., Freeport, Ill.
Braunsdorf-Miller Co. (Extension Handle),
Elizabeth, N. J.
Denison Mfg. Co., Warren, O.
Hunt, Helm, Ferris & Co. ("Star" Round
Bar), Harvard, Ill.
Johnson, Wm. (Hedenberg Works), Newark,
N. J.
Knapp, Geo. S. ("Bullard"), Bridgeport, Conn.
Krauter & Co., Newark, N. J.
Mallory, C. M., Albion, N. Y.
Montross, R. W. ("Excelsior" Stretcher &
Tack Hammer Combined), Gallen, Mich.
Osborne, C. S. & Co. ("C. S. O. & Co."),
Harrison, N. J.
Quilling, J. W. Mfg. Co. ("Faultless" Stretch-
er & Tacker), Quincy, Ill.

Sitterly Novelty Works ("King"), Auburn,
N. Y.

Smith, Seymour & Son, Oakville, Conn.
Stortz, John & Son, 210 Vine, Phila., Pa.

Stretchers (Curtain)

Chicago Curtain Stretcher Co. ("No Piece"),
104 N Lincoln, Chicago, Ill.

Stretchers (Electric Wire)

Eureka Tempered Copper Works, North East,
Pa.

Stretchers (Saw)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.
COVEL MFG. CO., Benton Harbor,
Mich. (See adv. index, end of book)
Hanchett Swage Wks., Big Rapids, Mich.

Stretchers (Wire)

American Cable Fence Co. ("Champion," for
Woven Wire Fence), Pekin, Ill.
American Wire Stretcher Co., 59 Clark, Chicago,
Ill.
Arcade Mfg. Co. ("Warner," "Dean," "Elwood"
& "Little Grant"), Freeport, Ill.
Burgess & Norton Mfg. Co., Geneva, Ill.
Burr Mfg. Co. (Fence & Wire), 2108 Superior
av, N. W., Cleveland, O.
Cargill Mfg. Co. ("Ohio"), Buttes av, Co-
lumbus, O.
Church Bros. ("Church," for Woven Wire
Fence), Adrian, Mich.
Cyclone Fence Co. ("Cyclone," for Woven Wire
Fence), Waukegan, Ill.
De Kalb Fence Co. ("De Kalb," for Wire
Fence), De Kalb, Ill.
Denning Wire & Fence Co. ("Handy," "Lind-
say," for Woven Wire Fence), Cedar
Rapids, Ia.
Dillon-Griswold Wire Co. ("Griswold," for
Woven Wire Fence), Sterling, Ill.
Dwiggins Wire Fence Co. ("Perfection," for
Woven Wire Fence), Anderson, Ind.
Elliott & Reid Co. ("Royal," for Woven Wire
Fence), Richmond, Ind.
Hall-Benedict Mfg. Co. ("Benedict's"), Mon-
ticello, Ia.
Hardware & Woodenware Mfg. Co. ("Brighton"
Wire Fence), 693 B'way, New York
Hohulin Bros. ("Success," for Woven Wire
Fence; also for Wire Fence), Goodfield, Ill.
Hunt, Helm, Ferris & Co. ("Star," "Knoxall,"
"Elwood," "Endless," "Dean," "Little
Giant," "Self Lock," "Sampson," "Big
Giant," for Woven Wire Fence; also for
Wire Fence), Harvard, Ill.
Interlocking Fence Co. ("Interlocking"), for
Woven Wire Fence & for Wire Fence), Mor-
tou, Ill.
Jackson Fence Co. ("Jackson," for Woven Wire
Fence), Jackson, Mich.
Keystone Steel & Wire Co. ("Samson," for
Woven Wire Fence), Peoria, Ill.
Lamb Wire Fence Co. ("Lamb," for Woven
Wire Fence), Adrian, Mich.
Leader Fence Machine Mfg. Co. ("Leader," for
Woven Wire Fence; also for Wire Fence),
St. Charles, Ill.
Mason Fence Co. ("Bull Dog"), Leesburg, O.
Milwaukee Hay Tool Co. ("Milwaukee," for
Wire Fence), Milwaukee, Wis.
Never Slip Wire Stretcher & Novelty Co., West
Farmington, O.
New England Anchor Fence Co. (For Woven
Wire Fence), Worcester, Mass.
Ney Mfg. Co. ("Ney," for Wire Fence), Can-
ton, O.
Page Woven Wire Fence Co. ("Page," for
Woven Wire Fence; also "Pittsburg," for
Wire Fence), Adrian, Mich.
Schliven, O. P. & Co. ("I X L"), 208 Elm,
Cincinnati, O.
Smith, C. F. & Co. ("Franklin," for Woven
Wire Fence), De Kalb, Ill.
Stowell Mfg. Foundry Co. ("Franklin," for
Wire Fence), South Milwaukee, Wis.
Strickler Hay Tool Co., Janesville, Wis.
Townsend, F. J., Painted Post, N. Y.
Universal Ratchet Co. ("Universal," for Wov-
en Wire Fence; also for Wire Fence), De-
troit, Mich.
Western Steel & Iron Works ("Western"),
De Pere, Wis.
Wilcox Mfg. Co. ("Wilcox Giant," for Woven
Wire Fence; also "Wilcox," "Advance,"
"Elwood" & "Triumph," for Wire Fence),
Aurora, Ill.

Stringers (Ham)

AMERICAN TAP & DIE CO., Greenfield, Mass. (See adv. index, end of book)
Johnson, Wm. (Hedenberg Works), Newark, N. J.
Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.
Stortz, John & Son, 210 Vine, Phila., Pa.

***Strippers (Ingot)**

MORGAN ENGINEERING CO. (Electric & Hydraulic), Alliance, O. (See adv. index, & branch offices, end of book)

***Stubs (Expansion)**

STAR EXPANSION BOLT CO. (Awn-ing "Star"), 147 Cedar, New York. (See adv. index & branch offices, end of book)

Stucco Mfrs.

American Gypsum Co., Cleveland, O.
Cardiff Gypsum Plaster Co., Fort Dodge, Ia.
Consumers' Gypsum Co., Clinton, O.
Empire Gypsum Co., Garbutt, N. Y.
Fort Dodge Gypsum Co., Fort Dodge, Iowa
Garbutt Gypsum Co., Rochester, N. Y., & Garhutt, N. Y.
Iowa Hard Plaster Co., Fort Dodge, Iowa
Lycoming Calcining Co., Williamsport, Pa.
McCarrel Compo-Stone & Stucco Co., Jacksonville, Fla.
Niagara Gypsum Co. ("Niagara"), 597 Michigan, Buffalo, N. Y.
Plymouth Gypsum Co., Fort Dodge, Iowa
Reeb, M. A., 590 Michigan, Buffalo, N. Y.
Southern Gypsum Co., North Hoiston, Va.
United States Gypsum Co., 200 Monroe, Chicago, Ill., & Cleveland, O.

Stucco Retarder

Chemical Stucco Retarder Co., Webster City, Iowa
Elcessor Stucco Retarder Co., Braddock, Pa.
Ohio & Binns Retarder Co., Port Clinton, O.
Sheridan Stucco Retarder Co., Toledo, O.

Stucco Work

ARCHITECTURAL DECORATING CO., 643 S Jefferson, Chicago, Ill. (See adv. index, end of book)
Berger's, H. Sons, 101 4th av, New York
Emmel, Chas. & Rose Co., 383 Albany, Boston, Mass.
Fischer & Jironch, 1008 Scovill av, S. E. Cleveland, Geo. A., 654 Gates av, Brooklyn, N.Y.
Fowle, Herbert, 43 Bristol, Boston, Mass.
Klee-Thomson Co., 327 E 40th, New York
Lewis, Geo. W., 390 Knight, Providence, R. I.
Root, C. R., 104 Asylum, Hartford, Conn.
Schneider, F. H., Syracuse, N. Y.
SEIFERT, FRANK A. PLASTIC RE-lief Co., 2621-2627 Dayton, St. Louis, Mo. (See adv. index, end of book)
Sleep, Elliott & King Co. (Inc.), 351 Cambridge, Boston, Mass.
Tognarelli & Voigt, 2310 Chestnut, Phila., Pa.
Van Maideren, E., 5th av & Jumonville, Pittsburgh, Pa.

***Studding ("Allunited" Steel)**

GENERAL FIREPROOFING CO., Youngstown, O. (See adv. index & branch offices, end of book)

***Studding (Slotted Steel)**

BERGER MFG. CO. (Prong Lock), Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
SHARON STEEL HOOP CO. ("Collins"), Sharon, Pa. (See adv. index & branch offices, end of book)
UNITED STEEL STUDDING CO ("Collins"), Sharon, Pa., & Commercial National Bank bldg, Chicago, Ill.

Studs (Electric Fixture)

Steel City Electric Co. ("Star"), Pittsburg, Pa.

Studs (Lacing)

Tubular Rivet & Stud Co., Boston, Mass.

Studs (Metal)

Knapp Bros. Mfg. Co. ("Knapp's" for Plaster Fireproof Partitions), 123 Franklin, Chicago, Ill.
Union Building Material Co. ("Union"), 1 Madison av, New York
UNITED STATES STUDDING CO. ("Collins"), Commercial Nat'l Bank bldg, Chicago, Ill.
Youngstown Iron & Steel Roofing Co. (For Furring, etc.), Youngstown, O.

Studs (Milled Iron)

American Iron & Steel Mfg. Co. (Also Brass), Lehanon, Pa.
Anthony Screw Co., Worcester, Mass.
Blake & Johnson Co., Waterbury, Conn.
Chicago Screw Co., 519 Homan av, Chicago, Ill.
Cincinnati Screw & Tap Co., Twightwee, O.
Corbin Screw Corporation, New Britain, Conn.
DETROIT SCREW WORKS, 348 Franklin, Detroit, Mich. (See adv. index, end of book)
Dodge Screw Corporation ("Special"), 27 Purchase, Boston, Mass.
Hartford Machine Screw Co., Hartford, Conn.
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hope, Wm. H. & Co., Lowell, Mass.
Hopedale Machine Co., Hopedale, Mass.
NATIONAL-ACME MFG. CO., 7500 Stanton av, S E, Cleveland, O. (See adv. index & branch offices, end of book)
Niagara Screw Co., Buffalo, N. Y.
Pawtucket Mfg. Co., Pawtucket, R. I.
PHILADELPHIA MACHINE SCREW WORKS, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
Pittsburg Screw & Bolt Co., Pittsburg, Pa.
Progressive Mfg. Co. (Also Steel, Brass, etc., to Order Only), Torrington, Conn.
Reed & Curtis Machine Screw Co., Worcester, Mass.
Rhode Island Tool Co., Providence, R. I.
Worcester Machine Screw Co., Worcester, Mass.

***Stuff Chests**

CALDWELL, W. E. CO., Brook & D., Louisville, Ky. (See adv. index, end of book)

Stuffers (Sausage)

Brecht, Gus. V. Butchers' Supply Co., 1201 Cass av, St. Louis, Mo.
Enterprise Mfg. Co., Phila., Pa.
Landers, Fray & Clark, New Britain, Conn.
Murray Iron Works Co. ("Stallman," Stearn & Draw-Cut, etc.), Burlington, Iowa
Sliver Mfg. Co. ("Wagner"), Salem, O.
Union Machine Works & Iron Foundry ("Union"), 1825 So Water, Phila., Pa.

Submarine Armor

(See Diving Apparatus)

Suckers (Soot)

(See Cleaners, Boiler Fine & Tube)

Sugar of Lead

Harshaw, Fuller & Goodwin Co., Cleveland, O

Sugar Machinery

(Under this Heading see the following Classifications)

Barrel Packers, Sugar.
 Batteries, Diffusion.
 Beet Washing & Slicing Machines.
 Cane Sugar Machinery.
 Carbonation or Saturation Plants.
 Centrifugals & Mixers, Sugar.
 Char Filters & Kilns.
 Clarifiers.
 Conveyors, Ribbon Scroll.
 Crushers, Sugar Cane.
 Crystallizers.
 Cube Sugar Apparatus.
 Defecators.
 Dryers, Cane, Continuous.
 Evaporators, Multiple Effects.
 Feeders, Sugar Cane Carrier.
 Filters, Bag.
 Filters, Mechanical Sugar.
 Furnaces, Bagasse.
 Grabs, Sugar Cane.
 Granulators, Sugar.
 Heaters, Juice.
 Kilns, Lime.
 Loaders, Sugar Cane.
 Mills, Sugar Cane.
 Pans, Vacuum.
 Portable Railways.
 Rollers & Pinions.
 Shredders, Sugar Cane.
 Sugar Cane Unloading Apparatus & Conveyor.
 Sulphur Machines.
 Triturators.

Barrel Packers (Sugar)

Hersey Mfg. Co., 314 W 2nd, Boston, Mass.

Batteries (Diffusion)

Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Deeley, Robert & Co., 507 W 32d, New York
Dyer Co., New England bldg, Cleveland, O.
Kilby Mfg. Co., Cleveland, O.
Krajewski-Pesant Co., 21 State, New York
Morris, Henry G., 333 Walnut, Phila., Pa.
Pusey & Jones Co., Wilmington, Del.
Walburn-Swenson Co., Monadnock hlk, Chicago, Ill.
Whitney Iron Works Co., 861 Tchoupitoulas, New Orleans, La.

Beet Washing & Slicing Machines

Allentown Fdry & Machine Works, Allentown, Pa.
Dyer Co., New England bldg, Cleveland, O.
Kilby Mfg. Co., Cleveland, O.
MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Cane Sugar Machinery

Allentown Fdry & Machine Works, Allentown, Pa.
Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Guiler Engineering Co., 359 Produce Exchange, New York

Carbonation or Saturation Plants

Dyer Co., New England bldg, Cleveland, O.
Kilby Mfg. Co., Cleveland, O.
Pusey & Jones Co., Wilmington, Del.

Centrifugals & Mixers (Sugar)

Allentown Fdry & Machine Works, Allentown, Pa.
American Laundry Machinery Mfg. Co. (Centrifugals), Norwood, Cincinnati, O.
American Tool & Machine Co., 100 Beach, Boston, Mass.
Blymyer Iron Works Co. ("Triumph" with Hand Power Jack), Cincinnati, O.
Boland & Gschwind Co., New Orleans, La.
Caldwell-Wilcox Co., Newburgh, N. Y.
Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Deeley, Robt. & Co., 507 W 32d, New York
D'Oiler Engineering Co. (Motor Driven), 121 S. 11th, Phila., Pa.
Hepworth, S. S. Co., 92 William, New York
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
Krajewski-Pesant Co., 21 State, New York

If You Are In Doubt

as to the original manufacturer of any machine or tool on which the patents have expired, that is now being exploited by many makers, ask HENDRICKS'—

They Can Tell You

Morris, Henry G., 333 Walnut, Phila., Pa.
Mundt, Chas. & Sons, 441 Pearl, New York
Murphy, John H. Iron Works, 643 Magazine, New Orleans, La.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Pusey & Jones Co., Wilmington, Del. La.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Wolf, Fred W. Co., 139 Rees, Chicago, Ill.

Char Filters & Kiln

Allentown Fdry & Machine Works, Allentown, Pa.
Broomell, Schmltd & Stacey Co. (Inc.), York, Pa.
Cornell, J. B. & J. M. Co., 26th & 11th av. New York
Deeley, Robt. & Co., 507 W 32d, New York
Kilby Mfg. Co., Cleveland, O.
Morris, Henry G., 333 Walnut, Phila., Pa.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Treadwell, M. H. Co., 90 West, New York; Works: Lebanon, Pa.
Wolf, Fred W. Co., 139 Rees, Chicago, Ill.
Wood, R. D. & Co. ("Char Filters"), 400 Chestnut, Philadelphia, Pa.

Clarifiers

Allentown Fdry. & Mach. W'ks, Allentown, Pa.
Blymyer, Iron Works Co., Spring Grove av & Terrace pl, Cincinnati, O.
Cornell, J. B. & J. M., 26th & 11th av, New York
Deeley, Rob't & Co., 507 W 32d, New York Solutions), 76½ Pine, New York
Deming Apparatus Co. (For Purifying Sugar Solutions), 76½ Pine, New York
Flynn, W. S., 76 Hudson, Jersey City, N. J.
Hauptman & Loeb Co. (Ltd.), 22 S Peters, New Orleans, La.
Kilby Mfg. Co., Cleveland, O.
Morris, Henry G., 333 Walnut, Phila., Pa.
Murphy, John H., Iron Works, 643 Magazine, New Orleans, La.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Pioneer Iron Works, 151 William, Brooklyn, N.Y.
Pusey & Jones Co., Wilmington, Del.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
Wasel's Copper Works, 50 N. 3d, Brooklyn, N. Y.

Conveyors (Ribbon Scroll)

Amerlean Tool & Machine Co., 109 Beach, Kilby Mfg. Co., Cleveland, O. Boston, Mass.

Crushers (Sugar Cane)

(See Mills, Sugar Cane)

Crystalizers

Allentown Fdry & Machine Works, Allentown, Pa.
Cornell, J. B. & J. M. Co., 26th & 11th av. New York
Deeley, Robt. & Co., 507 W 32d, New York
Dyer Co., New England bldg, Cleveland, O.
Eastwick Engineering Co., 15 Park Row, New York, & 807 Common, New Orleans, La.
Kilby Mfg. Co., Cleveland, O.
Morris, Henry G., 333 Walnut, Phila., Pa.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Pioneer Iron Works, 151 William, Brooklyn, N.Y.
Pusey & Jones Co., Wilmington, Del.
Treadwell, M. H. Co., 90 West, New York; Works: Lebanon, Pa.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
Whitney Iron Works Co., 861 Tchoupitoulas, New Orleans, La.
Wolf, Fred W. Co., 139 Rees, Chicago, Ill.

Cube Sugar Apparatus

Deeley, Robt. & Co., 507 W 32d, New York
Hersey Mfg. Co., 314 W 2d, Boston, Mass.

Defecators

Blymyer Iron Works Co. ("Santa Clara"), Spring Grove av & Terrace pl, Cincinnati, O.
Coldwell-Wilcox Co., Newburgh, N. Y.
Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Deeley, Robt. & Co., 507 W 32d, New York
Flynn, W. S., 76 Hudson, Jersey City, N. J.
Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
Kilby Mfg. Co., Cleveland, O.
Krajewski-Pesant Co., 21 State, New York
Morris, Henry G., 333 Walnut, Phila., Pa.

Murphy, Jno. H., 643 Magazine, New Orleans, La.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Pioneer Iron Works, 151 William, Brooklyn, N.Y.
Pusey & Jones Co., Wilmington, Del.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
Wasel's Copper Works, 50 N. 3d, Brooklyn, N. Y.

Driers (Cane, Continuous)

Kilby Mfg. Co., Cleveland, O.

Evaporators (Multiple Effects)

Baernerle & Morris, 932 N. Front, Phila., Pa.
Blymyer Iron Works Co. ("Cook"), Spring Grove av & Terrace pl, Cincinnati, O.
Buffalo Foundry & Machine Co., Buffalo, N. Y.
Casey-Hedges Co., Chattanooga, Tenn.
Champion Evaporator Co. (Evaporators), Hudson, O.
Cornell, J. B. & J. M. Co., 26th & 11th av. New York
Deeley, Robt. & Co., 507 W 32d, New York
Dyer Co., New England bldg, Cleveland, O.
GRISCOM-SPENCER CO., 90 West, New York, & ft. Washington av., Phila., Pa. (See adv. index & branch offices, end of book)

Reilly Multicoil Evaporators

SINGLE AND MULTIPLE EFFECT FOR DISTILLING

Heating surface of Copper Coils fastened to headers by screwed ground union joints.

Coils Removable.

Absolutely Elastic.

THE GRISCOM-SPENCER CO.
90 West Street, NEW YORK, N. Y.

Hauptman & Loeb Co. (Ltd.), 222 S. Peters, New Orleans, La.
Kestner Evaporator Co., 333 Walnut, Phila., Pa.
Kilby Mfg. Co., Cleveland, O.
Krajewski-Pesant Co., 21 State, New York
Morris, Henry G. (Double & Single), 333 Walnut, Phila., Pa.
Morris Engineering Co., 37th & Reed, Phila., Pa.
Murphy, John H., 643 Magazine, New Orleans, La.
Oat, Jos. & Sons (Copper & Iron), 230 Quarry, Phila., Pa.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Pioneer Iron Works, 155 William, Brooklyn, N. Y.
Pusey & Jones Co., Wilmington, Del.
Redfield, Robt. S. & Co., 90 West, New York. Factory: Elizabeth, N. J.
Squier, Geo. L. Mfg. Co., 420 Niagara, Buffalo, N. Y.
Sugar Apparatus Mfg. Co., 326 Chestnut, Phila., Pa.
Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
Warren Evaporator Works (Evaporators), Warren, O.
Wasel's Copper Works, 50 N. 3d, Brooklyn, N. Y.
Wheeler Condenser & Engineering Co. (Single & Multiple Effects), Carteret, N. J.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Feeders (Sugar Cane Carrier)

Bodley Wagon Co., Memphis, Tenn.
Mallon, James, 1006 Tchoupitoulas, New Orleans, La.
Nadler, Henry ("Walsh"), Plaquemine, La.

Filters (Bag)

Allentown Fdry & Machine Works, Allentown, Pa.
American Felt Co., 110 E 13th, New York
Blymyer Iron Works Co., Cincinnati, O.

Bonnot Company, Canton, O.
Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Deeley, Robt. & Co., 507 W 32d, New York
Gulf Bag Co., 330 Notre Dame, New Orleans, La.
Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
Morris, Henry G., 333 Walnut, Phila., Pa.
Murphy, John H., Iron Works, 643 Magazine, New Orleans, La.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Wolf, Fred W. Co., 139 Rees, Chicago, Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Filters (Mechanical) Sugar

Kilby Mfg. Co. (For Sugar Refineries), Cleveland, O.
Deeley, Robt. & Co., 507 W 32d, New York
HYGEIA FILTER CO., Detroit, Mich. (See adv. index, end of book)
Krajewski-Pesant Co., 21 State, New York
Payne & Joubert, 423 Carondelet, New Orleans, La.
Perrin, Wm. R. & Co., 46th & Loomis, Chicago, Ill.
Shriver, T. & Co., Harrison, N. J.

Furnaces (Bagasse)

Allentown Fdry & Machine Works, Allentown, Pa.
Babcock & Wilcox Co., New Orleans, La.
Casey-Hedges Co., Chattanooga, Tenn.
Chattanooga Plow Co., Chattanooga, Tenn.
Coldwell-Wilcox Co., Newburgh, N. Y.
Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Deeley, Rob't & Co., 507 W 32d, New York
Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
Morris, Henry G., 333 Walnut, Phila., Pa.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Pioneer Iron Works, 151 William, Brooklyn, N. Y.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
Swoop, Julian M., 1215 Josephine, New Orleans, La.

Grabs (Sugar Cane)

Thornton, J. A., Morgan City, La.

Granulators (Sugar)

Guild & Garrison, Kent av & S 10th, Brooklyn, N. Y.
Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.

Heaters (Juice)

Allentown Fdry & Machine Works, Allentown, Pa.
Coldwell-Wilcox Co., Newburgh, N. Y.
Cornell, J. B. & J. M. Co., 26th & 11th av, New York
Deeley, Robt. & Co., 507 W 32d, New York
Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
Kilby Mfg. Co., Cleveland, O.
Morris, Henry G., 333 Walnut, Phila., Pa.
Murphy, John H., 643 Magazine, New Orleans, La.
Payne & Joubert, 423 Carondelet, New Orleans, La.
Pioneer Iron Works, 151 William, Brooklyn, N. Y.
Squier, Geo. L. Mfg. Co., Buffalo, N. Y.

Kilns (Lime, Sugar Refining)

Dyer Co., New England bldg, Cleveland, O.
Hauptman & Loeb Co. (Ltd.), 222 S Peters, New Orleans, La.
Kilby Mfg. Co., Cleveland, O.
Wolf, Fred W. Co., 139 Rees, Chicago, Ill.

Loaders (Sugar Cane)

Castagnos Cane Loader Co. (Ltd.), Donaldsonville, La.
Mirc, J. C., Implement Co., 210 S. Peters, New Orleans, La.
Touard, P. A. & L., Killona, La.
Lotz, L. B., Plaquemine, La.

Mills (Sugar Cane)

Allentown Fdry & Machine Works, Allentown, Pa.
Bell, C. S. Co. (Crushers, Mills), Hillsboro, O.

Birmingham Machine & Foundry Co., Birmingham, Ala.
 Blymyer Iron Works Co., Cincinnati, O.
 Chattanooga Plow Co., Chattanooga, Tenn.
 Coldwell-Wilcox Co., Newburgh, N. Y.
 Cornell, J. B. & J. M. Co., 26th & 11th av., New York
 Deeley, Rob't & Co., 507 W 32d, New York
 Farrel Foundry & Machine Co., Ansonia, Conn.
 Fulton Iron Works, St. Louis, Mo.
 Golden's Foundry & Machine Co., Columbus, Ga.
 Honolulu Iron Works Co., Honolulu, Hawaii.
 Huntsville Foundry & Machine Works, Huntsville, Ala.
 Kehoe, Wm. & Sons, Savannah, Ga.
 Kilby Mfg. Co., Cleveland, O.
 Krajewski-Pesant Co., 21 State, New York
 Lombard Iron Works & Supply Co., Augusta, Ga.
 Morris, Henry G., 333 Walnut, Phila., Pa.
 North Alabama Engineering Co., New Decatur, Ala.
 Payne & Joubert, 423 Carondelet, New Orleans, La.
 Pioneer Iron Works, 151 William, Brooklyn, N. Y.
 Pusey & Jones Co., Wilmington, Del.
 Reading Iron Co., Reading, Pa.
REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)
 Risdon Iron & Locomotive Works, Steuart & Folsom sts., San Francisco, Cal.
 Rockford Well Drill Co., Rockford, Ill.
 Rourke, John & Sons, Savannah, Ga.
 Salem Iron Works (Steam, Water & Animal Power), Winston Salem, N. C.
 Schofield, J. S. Sons Co., Macon, Ga.
 Southern Plow Co., Columbus, Ga.
 Squier, Geo. L. Mfg. Co., Buffalo, N. Y.
 Standard Engineering Co., Ellwood City, Pa.
 Swoop, Julian M., 1215 Josephine, New Orleans, La.
 White, S. R. & Bro., Norfolk, Va.
 Whitney Iron Works Co., 861 Tchoupitoulas, New Orleans, La.

Pans (Vacuum)

(Pans, Vacuum, is Classified in Letter P)

Portable Railways

(See Railways, Industrial & Portable)

Rollers & Pinions

Chester Steel Casting Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Shredders (Sugar Cane)

Newell Mfg. Co., 149 B'way, New York.

Sugar Cane Unloading Apparatus & Conveyor

(See Conveyors, Belt)

Sulphur Machines

Deming Apparatus Co. (For Making Sulphur Compound), 76½ Pine, New York
 Krajewski-Pesant Co., 21 State, New York
 Kilby Mfg. Co., Cleveland, O.

Triturators

Coldwell-Wilcox Co., Newburgh, N. Y.
 (END OF SUGAR MACHINERY)

Sugar Refineries

Alameda Sugar Co. (Beet Sugar), San Francisco, Cal.; Factory: Alvarado, Cal.
 Alta (Cal.) Beet Sugar Co. (Beet), Hamilton City, Cal.
 Amalgamated Sugar Co. (Beet), Ogden, Utah.
 American Beet Sugar Co., 32 Nassau, New York
 American Sugar Refining Co., 117 Wall, New York
 American Sugar Refining Co. (Standard Plant), Granite st, S B, Boston, Mass.
 Arbuckle Bros., 71 Water, New York
 California & Hawaiian Sugar Refining Co. (Beet Sugar), San Francisco, Cal. Factory at Crockett, Cal.
 Carver County Sugar Co. (Beet), Chaska, Minn.
 Chaparra Sugar Co. (Beet Sugar), 107 Front, New York
 Chippewa Sugar Co. (Beet), Milwaukee, Wis. Factory: Chippewa Falls, Wis.
 Clinton Sugar Refining Co., Clinton, Iowa.
 Cogswell, Frank R., New Orleans, La.
 Colonial Sugars Co., 33 Wall, New York.
 Continental Sugar Co. (Beet), Cleveland, Ohio. Factories at Fremont, Ohio, & Blissfield, Mich.

Corn Products Mfg. Co., 42 Madison, Chicago, Ill. Refinery: Davenport, Iowa.
 Corn Products Refining Co., 26 B'way, New York. Refineries: Wadkegan, Ill.; Granite City, Ill.
 Cuban-American Sugar Co., 107 Front, New York
 Cunningham Sugar Co., Sugarland, Tex.
 Esgardo Sugar Co., 106 Wall, New York.
 Federal Sugar Refining Co., 138 Front, New York; Refineries: Yonkers, N. Y.
 Francisco Sugar Co., 143 S Front, Phila., Pa., & Guyabal, Cuba
 Franklin Sugar Refining Co., Stock Exchange pl., Phila., Pa., & 19 E 2d, Cincinnati, O.
 German-American Sugar Co. (Beet Sugar), West Bay City, Mich.
 Great Western Sugar Co. (Beet), Denver, Colo. Factory: Loveland, Colo.
 Guantanamo Sugar Co., 107 Front, New York.
 Holland Sugar Co. (Beet), Holland, Mich.
 Holly Sugar Co. (Beet), Holly, Colo.
 Holly Construction Co. (Beet), Swink, Colo.
 Honolulu Plantation Co., San Francisco, Cal.
 Howell, B. H. Son & Co. (Beet Sugar), 109 Wall, New York.
 Iowa Sugar Co. (Beet), Waverly, Ia.
 Knight Sugar Co. (Beet), Raymond, Alberta, Canada.
 Lafayette Sugar Refining Co., Lafayette, La.
 Lakeside Sugar Refining Co., Eagle Lake, Tex.
 Los Alamitos Sugar Co. (Beet), Los Angeles, Cal.; Factory: Los Alamitos, Cal.
 Lyons Beet Sugar Refining Co. (Beet), Lyons, N. Y.
 McCahan, W. J. Sugar Refining Co., 101 S Front, Phila., Pa.
 Menominee River Sugar Co. (Beet), Menominee, Mich.
 Mercedita Sugar Co., 109 Wall, New York.
 Michigan Sugar Co. (Beet), Saginaw, Mich.
 Miles Planting & Mfg. Co., Burnside, La.
 Mollenhauer Sugar Refining Co., Kent av c S 11th, Brooklyn, N. Y.
 Mount Clemens Sugar Co. (Beet), Mount Clemens, Mich.
 National Sugar Refining Co., 109 Wall, New York, & Yonkers, N. Y.
 National Sugar Mfg Co. (Beet), Sugar City, Colo.
 Ontario Sugar Co. (Beet), Toronto, Ont.; Factory at Berlin, Ont., Canada
 Owosso Sugar Co. (Beet), Bay City, Mich. Factory: Owosso, Mich.
 Pope, Chas. (Beet), Riverdale, Chicago, Ill.
 Pacific Sugar Corp'n (Beet), Los Angeles, Cal. Factory: Visalia, Cal.
 Revere Sugar Refinery, 2 Broad, Boston, Mass.
 Rock County Sugar Co. (Beet), Janesville, Wis.
 St. Louis Sugar Co. (Beet), St. Louis, Mich.
 Segura Sugar Co., Segura, La.
 Snake River Valley Sugar Co. (Beet), Blackfoot, Idaho.
 Spreckels Sugar Co. (Beet), 227 Market, San Francisco, Cal. Factory: Spreckels, Cal.
 Tuinucu Sugar Co., 112 Wall, New York.
 United States Sugar Co. (Beet Sugar), Madison, Wis.
 United States Sugar & Land Co. (Beet), Garden City, Kan.
 Union Sugar Co. (Beet), 268 Market, San Francisco, Cal. Factory: Betteravia, Cal.
 Utah-Idaho Sugar Co. (Beet), Salt Lake City, Utah. Factories at Garland, Leki, Provo, Spanish Fork & Springville, Utah.
 Wallaceburg Sugar Co. (Beet), Wallaceburg, Ont., Canada.
 Warner Sugar Refining Co., 124 Front, New York
 Washington State Sugar Co. (Beet), Spokane, Wash. Factory at Waverly.
 Waterhouse Rice & Sugar Co., Glen Flora, Tex.
 West Bay City Sugar Co. (Beet), West Bay City, Mich.
 West Michigan Sugar Co. (Beet), Charlevoix, Mich.
 Western Sugar & Land Co. (Beet), Grand Junction, Col.
 Western Sugar Refining Co., 58 Clay, San Francisco, Cal.
 Wisconsin Sugar Co. (Beet), Menomonee Falls, Wis.

Suit Cases

(See Traveling Bags & Suit Cases)

Sulphate Digester Linings

Reconstructed Granite Co., 14 Dey, New York. Works, Norristown, Pa.

Sulphate of Alumina

Cochran Chemical Co., Boston, Mass.
 Harrison Bros. & Co. (Inc.), 38th & Gray's Ferry rd, Phila., Pa.
 Merrimac Chemical Co., Boston, Mass.
 Pennsylvania Salt Mfg. Co., Phila., Pa.

Sulphate of Ammonia

American Coal Products Co., 17 Battery pl., New York
 Bower, Henry Chemical Mfg. Co., 29th & Gray's Ferry rd, Phila., Pa.
 Cochrane, Chemical Co., Boston, Mass.
 Ferguson Bros., Phila., Pa.
 General Chemical Co., 25 Broad, New York
 Grasselli Chemical Co., Cleveland, O., & 63 Wall, New York
 Listers' Agr'l Chemical Works, ft. W. 39th, New York
 New England Gas & Coke Co., 146 Franklin, Boston, Mass.
 Taylor, Geo. F. Co., 80 Pine, New York
 Tennant, C. Sons & Co. (Importers), 76 William, New York

*Sulphate of Iron

AMERICAN STEEL & WIRE CO.,
 Commercial Nat'l Bank Bldg., Chicago, Ill.
 (See adv. index & branch offices, end of book)

Sulphate of Lime

DOGGETT, STANLEY, 101 Beekman,
 New York. (See adv. index, end of book)
 Gabriel & Schall, 205 Pearl, New York
 Higginson Mfg. Co., Newburgh, N. Y.
 Scheel, Wm. H., 159 Maiden la, New York
 Western Chemical Mfg. Co. (Bl-Sulphate of Lime), Denver, Colo.

Sulphate of Soda

Cochrane Chemical Co., Boston, Mass.
 Contact Process Co., Buffalo, N. Y.
 General Chemical Co., 25 Broad, New York
 Grasselli Chemical Co., Cleveland, O., & 63 Wall, New York
 Jarecki Chemical Co., Sandusky, O.
 Merrimac Chemical Co., Boston, Mass.
 Powers, Weightman & Rosengarten Co., 9th & Parish, Phila., Pa.
 St. Louis Chemical Co., St. Louis, Mo.
 Scheel, Wm. H. (Refined, etc.), 159 Maiden la, New York
 Thomsen Chemical Co., Race & Winder, Baltimore, Md.
 Western Chemical Mfg. Co., Denver, Colo.

Sulphate of Sodium

Solvay Process Co., Syracuse, N. Y., & Detroit, Mich.

Sulphate of Zinc

Grasselli Chemical Co., The Arcade, Cleveland, O., & 63 Wall, New York
 Scheel, Wm. H. (Foreign), 159 Maiden la, New York

Sulphide Soda

Cochrane Chemical Co., Boston, Mass.
 Bower, Henry Chemical Mfg. Co. (Of Sodium), 29th & Gray's Ferry rd, Phila., Pa.
 Thomsen Chemical Co., Baltimore, Md.

Sulphur & Brimstone

Battelle & Renwick (Flour, Sublimed & Roll), 163 Front, New York
 Beggs, E. J. & Co., 92 William, New York
DOGGETT, STANLEY, 101 Beekman,
 New York. (See adv. index, end of book)
 General Chemical Co., 25 Broad, New York
 Grasselli Chemical Co., Cleveland, O.
 Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Hollingsworth & Peterson, Phila., Pa.
 Malcomson, Alfred S. (Dealer), 82 Beaver, New York
 Meehling Bros. Mfg. Co. (Powdered), Phila., Pa.
 Thomsen Chemical Co., Baltimore, Md.
 Union Sulphur Co., 82 Beaver, New York
 White, T. & S. C. Co. (Flowers of Sulphur; also Flour Sulphur), 28 Burling Slip, New York

Summer Houses or Arbors

Barbec Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
CINCINNATI MFG. CO., 1243 W. 6th,
 Cincinnati, O. (See adv. index, end of book)
 Howard & Morse, 45 Fulton, New York
MEYERS, FRED. J. MFG. CO., Ham-
 ilton, O. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON CO., 100
 Lake, Chicago, Ill. (See adv. index, end of book)
 Westervelt, A. B. & W. T., 102 Chambers, New York

Sun Dials

Gardam, Wm. & Son, 221 Fulton, New York
GORHAM CO. ARCH'L BRONZE
 (Metal), 5th av. & 36th, New York. Works.
 Providence, R. I. (See adv. index, end of book)

Jannusch Mfg. Co., 496 E. 134th, New York
 Jordan, Adolph M., 37 Fountain Sq., Cincinnati, O.
 Salo Art Metal Co., 19 Collier, Binghamton, N. Y.

Sun & Heliographic Printing

Keuffel & Esser Co., 127 Fulton, New York
 N. Y. Blue Print Co., 60 Reade, New York

SOLTMANN, E. G.

(Also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Superheaters (Steam)

Babcock & Wilcox Co., 85 Liberty, New York
 Heine Safety Boiler Co., St. Louis, Mo.
 Hussey, McCann & Co., 87 Warren, New York
 Mitchell, W. K. & Co. ("Ferguson"), Ellsworth, Me.
 Moshier Water Tube Boiler Co. ("Moshier"), 30 Church, New York
 National Superheater Co. ("Potter"), 556 W. 34th, New York
 Parker Boiler Co., Penna. bldg., Phila., Pa.
 Potter Separator Co., 39 Cortlandt, New York
 Power Specialty Co. ("Foster," Made of Wrought Steel Tube, Covered with Cast Iron Flanges), 111 B'way, New York
 Providence Engineering Works ("Schmidt"), Providence, R. I.
 Thacher, Geo. H. & Co., Albany, N. Y.
WESTINGHOUSE MACHINE CO., Pittsburgh, Pa.

Supporters (Pole)

Columbus Handle & Tool Co., Columbus, Ind.
 Dicke Tool Co., Downers Grove, Ill.
 Klein, Mathias & Sons, 87 W Van Buren, Chicago, Ill.
 Meckel, Fred. L., 77 E 13th, Chicago, Ill.

Supports (Cross Arm)

Steel Galm Mfg. Co. ("Bull Dog"), 12 South Clinton, Chicago, Ill.

*Surveyors' Field & Office Supplies

SOLTMANN, E. G.

(Also Blue or Black Prints Made from Large Tracings of County & Other Maps), 125 E. 42d, New York. (See adv. index, end of book)

Swage Block Stands

Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Swage Blocks

American Foundry & Mfg. Co., St. Louis, Mo.
 Huntsville Foundry & Machine Works, Huntsville, Ala.
 Illinois Iron & Bolt Co., Carpentersville, Ill.

Southern Skein & Foundry Co., Chattanooga, Tenn.

Swett, A. L., Iron Works, Medina, N. Y.
 Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Swages (Tie Plate)

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.

Swages (Top, Bottom, Etc.)

Beall Bros. (Inc.), Alton, Ill.
 Champion Tool Co. ("Champion"), Meadville, Pa.
 Evansville Tool Works, Evansville, Ind.
 Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Sweepers (Carpet)

Bissell Carpet Sweeping Co. ("Bissell's"), Grand Rapids, Mich.
 Goshen Sweeper Co., Grand Rapids, Mich.
 National Sweeper Co. ("Monarch," "Martha Washington," "National Queen"), Newark, N. J.
 Streater Metal Stamping Co., Streater, Ill.
 Vincent, Frank J., Little Falls, N. Y.

Sweepers (Electric Carpet)

Electric Renovator Mfg. Co. ("Invisible"), Pittsburgh, Pa.
 Electric Suction Sweeper Co., Canton, O.

Sweepers (Hand)

(See Street Sweepers, Hand)

Sweepers (Street Railway)

(See Street Railway Sweeping Machines)

Swings (Barrel)

Leavitt Machine Co., Orange, Mass.

Swings (Circle)

Boyce, Edward C. (Inc.), 302 B'way, New York
 Federal Construction Co., 108 Dearborn, Chicago, Ill.
 Traver Circle Swing Co., 68 B'way, New York

Swings (Lawn)

American Machine Co., Wilmington, Del.
 American Mfg. & Novelty Co., Erie, Pa.
 Anderson Company, St. Paul, Minn.
 Aspinwall Mfg. Co., Jackson, Mich.
 Babcock Mfg. Co. ("Otsego"), Leonardsville, New York
 Barley, Thos. K. ("Bible"), Sedalia, Mo.
 Batavia Wind Mill Co. (Steel), Batavia, Ill.
 Batcheller, H. F., Rock Falls, Ill.
 Bausman, D. H. ("Bausman" Steel), Bausman, Pa.
 Biscoe Bending & Chair Mfg. Co., Biscoe, N.C.
 Border City Mfg. Co., Border City, N. Y.
 Bristol & Gale Mfg. Co., 110 W Wash'n, Chicago, Ill.
 Brown Bros. Mfg. Co. ("Queen of the Lawn"), Nappanee, Ind.
 Buch's, A., Sons Co. ("Eagle," Steel Reclining & Adjustable Seat, etc.), Elizabethtown, Pa.
 Bushnell Tank Works, Bushnell, Ill.
 Butler Co., Butler, Ind.
 Challenge Co. ("Red Star," "Snow," Galvanized Steel), Batavia, Ill.

Champe, Frank N. ("Peoples Delight"), Cambridge City, Ind.

Covington Mfg. Co., Covington, O.
 Dain Mfg. Co. ("Dain's Alaska"), Ottumwa, Iowa
 Dowden Mfg. Co., Prairie City, Ia.
 Dublin Agricultural Works, Dublin, Ind.
 Eagle Mfg. Co., Elizabethtown, Pa.
 Earl, F. H. Mfg. Co., Plano, Ill.
 Eureka Mower Co. ("Eureka"), Utica, N. Y.
 Fairfield Lawn Swing Co. ("Fairfield"), Brunswick, Me.

Fleming & Sons Mfg. Co. ("Fleming"), Huntsville, Mo.

Forbes Mfg. Co. ("Mogul"), Hopkinsville, Ky.
 Fry Bros., Richmond, Ind.
 Glascock Bros. Mfg. Co., Muncie, Ind.
 Goshen Mfg. Co., Goshen, Ind.
 Greene Mfg. Co., Springfield, O.
 Haggard & Marcusson Co. ("Comfort Swing Chair"), 422 S Canal, Chicago, Ill.
 Haish Mfg. Co., De Kalb, Ill.
 Hay Tool Mfg. Co. ("Iowa"), Council Bluffs, Iowa

Hayes Pump & Planter Co., Galva, Ill.
 Hercules Specialty Co., Erie, Pa.
 Horizontal Swing Co. ("Carrollton"), Carrollton, Mo.

Hutchins Roller Swing Co., Alton, Ill.
 Iona Wagon Co. ("Bible"), Iona, Mich.
 Joes, C. H., Sterling, Ill.
 Kalamazoo Sled Co., Kalamazoo, Mich.
 Keller Mfg. Co. ("Keller"), Sauk Center, Minn.

Kelly Foundry & Machine Co. ("Baby"), Goshen, Ind.

Kelly, O. S. Mfg. Co., Iowa City, Ia.
 Keystone Farm Machine Co. ("Slumberine"), York, Pa.
 McCall Mfg. Co., Moberly, Mo.
 Myers, F. E. & Bro., Ashland, O.
 Miller Bros., Rochester, Mich.
 Neff Mfg. Co., Cowan, Ind.
 Moulton, C. W. H. & Co. ("New England"), Somerville, Mass.

Ohio Rake Co. ("Artic"), Dayton, O.
 Purlington Mfg. Co., Des Moines, Ia.
 Reed & Rogers Mfg. Co., Vernon, Ind.
 Scott, Jno. F., Goshen, Ind.
 Sears Mfg. Co., Plano, Ill.
 Sechler, D. M. Carriage Co., Moline, Ill.
 Smith Fence & Iron Co. (Steel), Waynesboro, Pa.

Smith Mfg. Co. (Steel), Waynesboro, Pa.
 Smith, T. & H. & Co., Pekin, Ill.
 Southern Plow Co. ("Perfection Hercules"), Columbus, Ga.
 Specialty Mfg. Co. ("Columbia"), Titusville, Pa.

Superior Hay Stacker Mfg. Co. (Superior Horizontal), Linneus, Mo.
 Thornburgh Mfg. Co. (Folding), Bowling Union Mfg. Co., Toledo, O.
 Wayne Works ("Richmond Champion"), Richmond, Ind.

Wenona Mfg. Co., Bay City, Mich.
 Weston Paper & Mfg. Co. ("Premier" Swing & Hammock Combined), Dayton, O.

*Swings (Porch Seat)

SUN MFG. CO., Columbus, O. (See adv. index, end of book)

*Switch Bars (Hard Fibre)

DELAWARE HARD FIBRE CO., Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY CO., Wilmington, Del. (See adv. index, end of book)



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***Switchboard Details**

WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Switchboards (Light & Power)

Adams, Frank Electric Co. ("F.-A."), St. Louis, Mo.

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

American Automatic Telephone Co., Rochester, N. Y.

American Elec. Construction Co., 138 Washington, Chicago, Ill.

American Electric Switch Co., Springfield, Mass.

Anderson, Albert & J. M. Mfg. Co., Boston, Mass.

Andrae, Julius & Sons Co., Milwaukee, Wis.

Bernard, E. G. Co., Troy, N. Y.

Blissell, F. Co., Toledo, O.

Blake Electric Co. ("Macfarlane"), Boston, Mass.

Burke Electric Co., Erie, Pa.

Butte Engineering & Elec. Co., San Francisco, Cal.

California Electrical Works (Inc.), San Francisco, Cal.

Cleveland Switchboard Co., Cleveland, O.

Condit Electrical Mfg. Co., Boston, Mass.

Crocker-Wheeler Co., Ampere, N. J.

Crouse-Hinds Co., Syracuse, N. Y.

Cuthbert Electric Mfg. Co., 105 S Clinton, Chicago, Ill.

Dean Electric Co., Elyria, O.

Drendell Electrical & Mfg. Co., San Francisco, Cal.

Electric Fittings Co., Trumansburg, N. Y.

Electrical Mfg. Co., Cleveland, O.

FAIRBANKS, MORSE & CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Fisher Electrical Works, Detroit, Mich.

Flint-Lomax Electric & Mfg. Co., Denver, Colo.

Fort Wayne Electric Works (Inc.), Fort Wayne, Ind.

Garrett, Miller & Co., Wilmington, Del.

Garwood Electric Co., Garwood, N. J.

GENERAL ELECTRIC CO., Schenectady, N. Y. & 30 Church, New York. (See adv. index & branch offices, end of book)

General Railway Signal Co., Rochester, N. Y.

Grady, S. S. Co., Boston, Mass.

H. O. S. Engineering Co., Newark, N. J.

Helmemann, Geo. & Co., 500 Girard av, Phila., Pa.

Hewlett & Warden, Newburgh, N. Y.

Holtzer-Cabot Electric Co., Brookline, Mass.

Ideal Elec. & Mfg. Co., Mansfield, O.

Interstate Supply Co., Sioux City, Ia.

Jones & Gross Elec. Co., 62 Vesey, New York

Kinetic Electric Co., 16 S Schell, Phila., Pa.

Krantz, H. Mfg. Co. ("Jones"), 160 7th, Brooklyn, N. Y.

Kurz & Root, Appleton, Wis.

Lang, J. Elec. Co., 116 N Lincoln, Chicago, Ill.

Leonard-Bundy Elec. Co., Cleveland, O.

Linton & Southwick (Tablet & Distributing), Worcester, Mass.

Lounsbery, Eaton & Co., 144 Erie, Chicago, Ill.

McCarthy Bros. & Ford, Buffalo, N. Y.

Machen & Mayer Electrical Co., 12th & But-
tonwood, Phila., Pa.

Metropolitan Switchboard Co., 532 W 22d, New York

Minnesota Electric Co., Minneapolis, Minn.

Mutual Electric & Machine Co. (A. C. & D. C.), Wheeling, W. Va.

National Switchboard Co., 852 11th av, New York

Newgard & Co., 30 W Monroe, Chicago, Ill.

Newport Electric Mfg. Co., Newport, Ky.

Nyelec Switch Board Co., 39 Cortlandt, New York

Penn. Electrical & Mfg. Co., Irwin, Pa.

Peru Electric Mfg. Co., Peru, Ind.

Phila. Elec. Construction Co., 914 Filbert, Phila., Pa.

PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)

Pierson & Dean Co., New Haven, Conn.

Pittsburg Electrical & Machine Works, Pittsburg, Pa.

Pringle Electrical Mfg. Co., 1906 N 6th, Phila., Pa.

Robb & Blackmer, Boston, Mass.

Roller-Smith Co., Bethlehem, Pa.

Royce Electric Co., Indianapolis, Ind.

Sackett, H. I. Elec. Co., Buffalo, N. Y.

Schaefer Bros. Co., 12 Julius, Chicago, Ill.

Stecker Electric & Machine Co., Detroit, Mich.

Steel, W. M. Switchboard Co., Worcester, Mass.

Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.

Taunton-New Bedford Copper Co., Taunton, Mass.

Tibbals, E. C. & Co., 1201 Atlantic av, Brooklyn, N. Y.

Tower-Binford Electric & Mfg. Co., Richmond, Va.

Troy Electrical Co., Troy, N. Y.

Trumbull Electric Mfg. Co., Plainville, Conn.

Wagner Electric Mfg. Co. (Also for Street R'ys & Isolated Plants), St. Louis, Mo.

Walker Electric Co. (Slate & Marble), 2338 Noble, Phila., Pa.

Walls, Owen & Stambach Co. (Soapstone), 11th & Ridge av, Phila., Pa.

Wesco Supply Co. ("Davis"), St. Louis, Mo.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Western Insulation Co., 170 W Adams, Chicago, Ill.

WESTINGHOUSE ELEC. & MFG. CO., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

White, H. P. Co., Wayne Junction, Gtn., Phila., Pa.

Worcester Electric Mfg. Co., Worcester, Mass.

Wurdack, Wm. Electric Mfg. Co., St. Louis, Mo.

***Switchboards (Telegraph)**

BUNNELL, J. H. & CO., Park pl. & Church, New York. (See adv. index, end of book)

Switchboards (Telephone)

(See also Telephones & Apparatus)

Acme Telephone & Mfg. Co., Albia, Iowa

American Automatic Telephone Co., Urbana, O.

American Electric Telephone Co. ("American," "1900," "Express"), 64th & State, Chicago, Ill.

American Machine Telephone Co., Piqua, O.

Andrae, Julius & Sons Co., Milwaukee, Wis.

Automatic Electric Co., Morgan & Van Buren, Chicago, Ill.

B. B. Electric & Telephone Mfg. Co., Kansas City, Mo.

Central Telephone & Electric Co. ("Primo"), St. Louis, Mo.

Century Telephone Const. Co., Buffalo, N. Y.

Chicago Telephone Supply Co., Elkhart, Ind.

Clark Automatic Telephone Switchboard Co., Providence, R. I.

Connecticut Telephone & Electric Co. (Inc.), Meriden, Conn.

Couch, S. H. Co., Boston, Mass.

Couch & Seeley Co., Boston, Mass.

Dean Electric Co., Elyria, O.

De Veau Telephone Mfg. Co., 474 18th Brooklyn, N. Y.

Eastern Telephone Mfg. Co., West Chester, Pa.

Electrical Engineering Co., Minneapolis, Minn.

Electric Goods Mfg. Co. ("Rotokoll," "Annunciphone"), Boston, Mass.

Ericsson, L. M. Telephone Mfg. Co., Buffalo, N. Y.

Farr Telephone & Const. Supply Co., 118 W Jackson boul, Chicago, Ill.

Garl Electric Co., Akron, O.

Hipwell Mfg. Co., 831 North av, Allegheny, Pa.

Holtzer-Cabot Electric Co., Brookline, Mass.

International Telephone Mfg. Co., Harrison & Clinton, Chicago, Ill.

Kellogg Switchboard & Supply Co. ("Express"), Congress & Green, Chicago, Ill.

Keystone Electric Telephone Co., 822 Fifth av, Pittsburg, Pa.

Kokomo Telephone & Electric Mfg. Co., Kokomo, Ind.

Kusel Telephone & Elec. Mfg. Co., St. Louis, Mo.

Loeffler, Louis J., 20 Fulton, New York

Long Distance Telephone Mfg. Co., South Bend, Ind.

Menominee Elec. Mfg. Co., Menominee, Mich.

Minnesota Electric Co., Minneapolis, Minn.

Monarch Telephone Mfg. Co., Chicago, Ill.

North Electric Co., Cleveland, O.

Pierce Specialty Co., Elkhart, Ind.

Russell Elec. Co., Danbury, Conn.

Schmidt-Wilckes Elec. Co., 135 William, New York

Sioux City Brass Works, Sioux City, Iowa.

Standard Telephone & Mfg. Co., Portsmouth, N. H.

Sterling Elec. Co., Lafayette, Ind.

Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y.

Sumter Telephone Mfg. Co., Sumter, S. C.

Utica Fire-Alarm Telegraph Co., Utica, N. Y.

Viaduct Co., Relay, Md.

Vote-Berger Co., La Crosse, Wis.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Western Telephone Mfg. Co., 42 W Jackson boul, Chicago, Ill.

Wilhelm Telephone Mfg. Co., 45 N Division, Buffalo, N. Y.

Switchboards (Theatre)

Globe Electric Co., 419 W 42d, New York

Menchen, Jos. Electrical Co., 360 W 50th, New York

Pennefather, J. S., 105 W 39th, New York

Universal Elec. Stage Lighting Co. ("Kiegl"), 1393 B'way, New York

Switch Cases, Caps & Bases

Scranton Button Co. (Electrold Confined Type for Switches), Scranton, Pa.

HENDRICKS' COMMERCIAL REGISTER
IS NOT A CATALOG OF ADVERTISERS ALONE, BUT A COMPLETE REGISTER OF THE MANUFACTURERS AND JOBBERS IN EVERY LINE OF TRADE THAT COMES WITHIN THE SCOPE OF THE WORK.

Switch Handles (Wood)

(See also Handles, Various Kinds)

Narragansett Machine Co., Providence, R. I.
 Novelty Turning Co. (For Electrical Switches).
 Norway, Me.

Switch Locks (Railway)

Blanchard Railway Switch Lock Co., 141 Milk,
 Boston, Mass.

Switch Stands

(See Switches, Switch Stands & Fixtures)

Switches (Automatic)

Automatic Switch Co. ("Whittingham" Quick
 Break Tank Switch, etc.), 131 Liberty, New
 York

ELECTRIC CONTROLLER & MFG.

Co., Cleveland, O. (See adv. index &
 branch offices, end of book)
 Sechrist, Albert Mfg. Co. ("The Sechrist"),
 1033 16th, Denver, Colo.

***Switches (Automatic Door)**

HART MFG. CO. ("Diamond H"), 103
 Ailyn, Hartford, Conn. (See adv. index &
 branch offices, end of book)

Switches (Automatic Railroad)

Buda Foundry & Mfg. Co., R'y Exch bldg,
 Chicago, Ill.
 Jenny Safety Switch Co. ("Jenny," Auto-
 matic Safety Switch), Westfield, Mass.
 N. Y. Switch & Crossing Co., Hoboken, N. J.
 Penna. Steel Co., Girard bldg, Phila., Pa.
 Ramapo Iron Works, Hilburn, N. Y.
 Sheffield Car Co., Three Rivers, Mich.
 Wharton, Wm., Jr., & Co., 25th & Washing-
 ton av, Phila., Pa.

Switches (Automobile)

Acorn Brass Mfg. Co. (Lock), 51 N Peoria,
 Chicago, Ill.
 American Coil Co. (Electric), West Somerville,
 Mass.
 Atwater-Kent Mfg. Works ("Keyless," Lock),
 112 N 6th, Phila., Pa.
 Auto Lock Co. (Lock), 6349 Minerva av, Chi-
 cago, Ill.
 Auto Lock Plug Co. (Lock), 31 Nassau, New
 York
 B. & J. Mfg. Co. (Lock), 86 E 34th, Chicago,
 Ill.
 Connecticut Telephone & Electric Co. (Inc.)
 (Electric), Meriden, Conn.
EDWARDS & CO. (Electric), Park
 av & 144th, New York. (See adv. index,
 end of book)
 Eldridge Electric Mfg. Co. (Electric), 227 Main,
 Springfield, Mass.
 Hart & Hegeman Mfg. Co. (Electric), Hartford,
 Conn.
 Jacobson-Brandow Co., Pittsfield, Mass.
 Lock-Switch Mfg. Co. (Lock), 20 Broad, New
 York
 McKibben, G. N. Mfg. Co. (Electric), South
 Norwalk, Conn.
 Parker, Henry F. (Lock), Newburgh, N. Y.

Peerless Switch Co. (Electric), 190 Randolph,
 Detroit, Mich.
 Perfection Supply Co. (Electric), 621 B'way,
 New York
 Pittsfield Spark Coil Co. (Electric & Lock),
 Pittsfield, Mass.
 Seidler-Miner Electric Co. (Electric), 207 Jef-
 ferson av, Detroit, Mich.
 Specialty Mfg. Co. ("Thompson," Electric), S.
 Norwalk, Conn.
 Splttdorf, C. F. (Electric), 17 Vandewater, New
 York
 Trumbull Electric Mfg. Co. (Electric), Plain-
 ville, Conn.
 Utility Co. (Electric), 235 Greenwich, New York
 Weber, C. F. Mfg. Works (Electric), Albany,
 N. Y.

Switches (Battery)

Knoblock, Heldeman Mfg. Co., South Bend,
 Ind.

Switches (Canopy)

Columbia Machine Works & Malleable Iron
 Co., 269 Chestnut, Brooklyn, N. Y.
WESTINGHOUSE ELECTRIC & MFG.
 Co., Union Bank bldg, Pittsburg, Pa. (See
 adv. index & branch offices, end of book)

Switches (Coil)

Connecticut Telephone & Electric Co. (Inc.),
 Meriden, Conn.
 Pittsfield Spark Coil Co., Dalton, Mass.

Switches (Derailing)

Buda Foundry & Mfg. Co., Railway Exchange
 bldg, Chicago, Ill.
 Cleveland Car Co. ("Porter's"), West Park, O.
 Cleveland Frog & Crossing Co. ("Porter"),
 Cleveland, O.
 Hayes Track Appliance Co. (For Steam or
 Street Railways), Geneva, N. Y.
 Johnston, R. R. Frog & Switch Co., Chester,
 Pa.
 Locomotive Appliance Co. ("Smyth" & "Fre-
 land"), Old Colony Bldg., Chicago, Ill.
 New York Switch & Crossing Co., Hoboken,
 N. J.
 Wilson Railway Gate Co., Birmingham, Mich.

***Switches (Float, Electric)**

CUTLER-HAMMER MFG. CO., Mil-
 waukee, Wis. (See adv. index & branch
 offices, end of book)
GENERAL ELECTRIC CO., Sche-
 nectady, N. Y., & 30 Church, New York.
 (See adv. index & branch offices, end of book)

***Switches (Fused Service)**

D & W FUSE CO., Providence, R. I.
 (See adv. index, end of book)

Switches (High Voltage)

CUTLER-HAMMER MFG. CO., Mil-
 waukee, Wis. (See adv. index & branch
 offices, end of book)
 Eureka Tempered Copper Works, North East,
 Pa.
 Fort Wayne Electric Works (Inc.), Fort Wayne,
 Ind.

GENERAL ELECTRIC CO., Schenec-
 tady, N. Y., & 30 Church, New York. (See
 adv. index & branch offices, end of book)
 High Tension Electrical Specialty Co., Newton,
 Mass.
 Walker Electric Co., 2338 Noble, Phila., Pa.
WESTINGHOUSE ELECTRIC & MFG.
 Co., Union Bank bldg, Pittsburg, Pa. (See
 adv. index & branch offices, end of book)

Switches (Industrial Railway)

(See Railways, Industrial & Portable)

Switches (Interlocking)

Robinson-Tilton Machinery Co. ("Foster"),
 Columbus, O.
UNION SWITCH & SIGNAL CO., THE,
 Swissdale, Pa., 143 Liberty, New York,
 & Monadnock Blk., Chicago, Ill.

Switches (Knife)

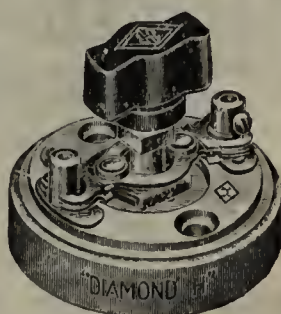
Adam, Frank Electric Co. ("Standard"), 914
 Pine, St. Louis, Mo.
 American Electric Switch Co., Springfield,
 Mass.
 Anderson, Albert & J. M. Mfg. Co., 289 A,
 South Boston, Boston, Mass.
 Banner Electric Co., Youngstown, O.
 Barkelew Elec. Mfg. Co. ("Premo," 25 to
 2,000 Amperes," "Star," 3 to 600 Am-
 peres"), Middletown, O.
 Bossert Electric Construction Co., Utica, N. Y.,
 & 26 Cortlandt, New York
 Boston Electric Co., 29 Harrison av, Boston,
 Brady, T. H., New Britain, Conn. Mass.
 Bryant Electric Co., Bridgeport, Conn.
 Clark-Burris Mfg. Co., 63 S Canal, Chicago, Ill.
 Cleveland Switchboard & Elec. Mfg. Co., 54
 Michigan, Cleveland, O.
 Consolidated Car Heating Co. (For Car Heat
 Light, "Quick Brake"), 42 Broadway, New
 York, & Albany, N. Y.
 Crescent Electric & Mfg. Co., 24th & Liberty
 av, Pittsburg, Pa.
 Crescent Electrical Mfg. Co., Rochester, N. Y.
 Crouse-Hinds Electric Co., Syracuse, N. Y.
 Cutter Electrical & Mfg. Co., 19th & Hamilton
 Davis M. & Son, Salem, O. Philadelphia, Pa.
 Electric Construction Co. of Va., Richmond, Va.
ELECTRIC CONTROLLER & MFG.
 Co., Cleveland, O. (See adv. index &
 branch offices, end of book)
 Electric Mfg. & Equipment Co., Atlanta, Ga.
 Electro Dynamic Co., 5 Nassau, New York
 Erner Electric Co., 62 Public sq, Cleveland, O.
 Eureka Tempered Copper Works ("The
 Eclipse," "Favorite," "Economic" &
 "Eureka"), Northeast, Pa.
 Evanson, Geo. T. Co., 7th & Commerce, Phila-
 delphia, Pa.
 Fullman Co., 3301 Penna av, Pittsburg, Pa.
GENERAL ELECTRIC CO., Schenec-
 tady, N. Y., & 30 Church, New York. (See
 adv. index & branch offices, end of book)
 Heinemann, Geo. M. & Co., 737 Girard av,
 Phila., Pa.
 Helios Mfg. Co., Bridesburg, Phila., Pa.
 Hyer-Sheehan Elec. Motor Co., Newburgh, N. Y.
 Ideal Elec. & Mfg. Co. ("Star"), Mansfield, O.
 Krantz, H. Mfg. Co., 160 7th, Brooklyn, N. Y.
 Lang, J. Elec. Co., 176 E Indiana, Chicago, Ill.
 Leonard-Bundy Electric Co., 156 Champlain,
 Cleveland, O.

"DIAMOND H" SWITCHES

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**HART MFG. CO., HARTFORD, CONN.**

Linton & Southwick, Worcester, Mass.
 Lundin Electric & Machine Co., 176 Federal, Boston, Mass.
 McCarthy Bros. & Ford, 41 Eagle, Buffalo, N. Y.
 Manhattan Electrical Supply Co., 32 Cortlandt, New York
 Marshall Electric Mfg. Co., 301 Congress, Boston, Mass.
 Mutual Electric & Machine Co. (All Copper), Wheeling, W. Va.
 New York Switchboard & Mfg. Co., 516 W 36th, New York
 Novelty Electric Co., 54 N 4th, Phila., Pa.
 Palste, H. T. Co., 3101 Ludlow, Phila., Pa.
 Parke, Jno. Y. & Co., 728 Cherry, Phila., Pa.
 Perkins Electric Switch Mfg. Co., Bridgeport, Conn.
 Peru Electric Mfg. Co., Peru, Ind.
 Phoenix Electric Co., Mansfield, O.
 Pringle Electric Mfg. Co., 1906 N 6th, Phila., Pa.
 Proctor-Raymond Mfg. Co., Detroit, Mich.
 Rohn, Geo. F., Milwaukee, Wis.
 Schoenman Electric Mfg. Co., Berlin & P R R Belt, Pittsburg, Pa.
 Springfield Electrical Mfg. Co., Springfield, Mass.
 Taunton-New Bedford Copper Co., Taunton, Mass.
 Tower-Binford Electric & Mfg. Co., Richmond, Va.
 Troy Electrical Co., Troy, N. Y.
 Trumbull Electric Mfg. Co. (Also Baby Knife), Plainville, Conn.
 Wagner Electric Mfg. Co., St. Louis, Mo.
 Walker Electric Co., 2338 Noble, Phila., Pa.
 Wesco Supply Co. ("Davis"), St. Louis, Mo.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Western Electric Co. ("Hill"), 11th & York, Phila., Pa.
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Weston, W. H. & Co., 1303 Buttonwood, Philadelphia, Pa.
 White, H. P. Co., Wayne & Berkley, Gtn. Phila., Pa.
 White, J. H. Mfg. Co., 127 N 10th, Brooklyn, N. Y.
 Worcester Electric Mfg. Co., Worcester, Mass.
 Wurdack, Wm., 19 S 11th, St. Louis, Mo.
 York Electric & Machine Co., York, Pa.

Switches (Limit)

CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)
 Schureman, J. L. Co., 70 W Jackson boult, Chicago, Ill.

Switches (Magnetic)

Automatic Switch Co., 131 Liberty, New York
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ELECTRIC CONTROLLER & MFG. Co., Cleveland, O. (See adv. index & branch offices, end of book)
 Schureman, J. L. Co., 70 W Jackson boult, Chicago, Ill.

*Switches (Mine)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Switches (Oil Break)

Condit, S. B., Jr. & Co. ("The Elden," Pneumatic), 63 Oliver, Boston, Mass.
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Hartman Circuit Breaker Co. (For High Tension Service), Mansfield, O.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Mutual Electric & Machine Co., Wheeling, W. Va.
PHOENIX ELECTRIC CO., Mansfield, Ohio. (See adv. index, end of book)
 Schureman, J. L. Co., 70 W. Jackson boult, Chicago, Ill.

WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Worcester Electric Mfg. Co., Worcester, Mass.

*Switches (Overhead)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)

Switches (Push Button)

(See Switches, Snap & Push)

Switches (Reversing Motor)

Automatic Switch Co. ("Whittingham," for Elevators, etc.), 131 Liberty, New York
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
ELECTRIC CONTROLLER & MFG. Co., Cleveland, O. (See adv. index & branch offices, end of book)
HART MFG. CO. ("Diamond H"), 103 Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)
 Ideal Electric & Mfg. Co., Mansfield, O.
PHOENIX ELECTRIC CO., Mansfield, O. (See adv. index, end of book)
 Schureman, J. L. Co., 70 W Jackson boult, Chicago, Ill.

*Switches (Rotary Flush and Push Button)

HART MFG. CO. ("Diamond H"), 103 Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)

Switches (Snap, Ordinary)

Akron Electric Mfg. Co., Akron, O.
 Bryant Electric Co., Bridgeport, Conn.
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
HART MFG. CO. ("Diamond H"), 103 Allyn, Hartford, Conn. (See adv. index & branch offices, end of book)
 Marshall Electric Mfg. Co., 301 Congress, Boston, Mass.
 Palste, H. T. Co., 3101 Ludlow, Phila., Pa.
 Perkins Electric Switch Mfg. Co., Bridgeport, Conn.

Switches (Snap & Push)

Austlin, M. B. & Co. (Push), 137 W. Jackson Boul, Chicago, Ill.
 Bryant Electric Co. (Snap), Bridgeport, Conn.
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Cutter Co. ("C. S."), 19th & Hamilton, Phila., Pa.
 Flint-Lomax Electric Mfg. Co. (Snap & Push), 1400 Delgany, Denver, Colo., & 44 Broad, New York
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Hart & Hegeman Mfg. Co. (Push & Snap), Hartford, Conn.
 Machen & Mayer, Electrical Mfg. Co. ("M. & M."), 12th and Buttonwood, Phila., Pa.
 Marshall Electric Mfg. Co. (Snap & Push), 301 Congress, Boston, Mass.
 Palste, H. T. Co. (Snap), 3101 Ludlow, Phila., Pa.
 Perkins Elec. Switch Mfg. Co. (Snap), Bridgeport, Conn.

Switches (Solenoid)

Automatic Switch Co., 131 Liberty, New York
CUTLER-HAMMER MFG. CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Ideal Electric Mfg. Co., Mansfield, Ohio.
 Schureman, J. L. Co., 70 W Jackson boult, Chicago, Ill.

Switches (Split)

Buda Foundry & Mfg. Co., Railway Exchange bldg, Chicago, Ill.
 Cleveland Frog & Crossing Co. ("The Lucas"), Cleveland, O.
 Elliott Frog & Switch Co., East St. Louis, Ill.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Pettibone, Mulliken & Co. ("Transit," "Gauge" & "Channel"), 204 Dearborn, Chicago, Ill.
 Ramapo Iron Works, Hillburn, N. Y.

Switches, Switch Stands & Fixtures

(See also Frogs, Switches & Crossings; also Crossings; also Signals)

American Frog & Switch Co., Hamilton, O.
 American Railway Signal Co., Cleveland, O.
 American Valve & Meter Co. ("Little Giant" Switch Stands), Cincinnati, O.
 Buda Foundry & Mfg. Co. ("Ramsey" Automatic, etc.), Railway Exchange bldg, Chicago, Ill.
 Chicago Crossing Co., Monadnock bldg, Chicago, Ill.
 Cincinnati Frog & Switch Co. (For Standard & Narrow Gauge Tracks), Cincinnati, O.
 Cleveland Frog & Crossing Co. ("The Lucas"), Cleveland, O.
 Conley Frog & Switch Co., Memphis, Tenn.
 Elliott Frog & Switch Co., East St. Louis, Ill.
FAIRBANKS, MORSE & CO., Wash. av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
 Giegg Company (Ltd.), (For Industrial Railways), Newburgh, N. Y.
 Gueber Engineering Co., Bethlehem, Pa.
INDIANAPOLIS SWITCH & FROG Co., Springfield, O.
 International Railway Supply Co. (Automatic Safety Lock), Monadnock blk, Chicago, Ill.
 Johnston, R. R. Frog & Switch Co., Chester, Pa.
 Kilby Frog & Switch Co., Birmingham, Ala.
KOPPEL, ARTHUR CO., Machesney Bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)
 Lorain Steel Co., Johnstown, Pa.
 McMyler Mfg. Co., Cleveland, O.
 Morden Frog & Crossing Works ("Union"), Commercial Nat. Bank bldg, Chicago, Ill.
 New Lork Switch & Crossing Co., Hoboken, N. J.
 Ohio Brass Co., Mansfield, O.
 Penna. Steel Co., Girard bldg., Phila., Pa.
 Pettibone, Mulliken & Co. ("Banner," "Star," "Globe," "Crown" & "Axel" Switch Stands), 204 Dearborn, Chicago, Ill.
 Ramapo Iron Works, Hillburn, N. Y.; Niagara Falls, N. Y., & 30 Church, New York
 Welr Frog Co., Beach & Highland av, Cincinnati, O.
 Wharton, Wm., Jr. & Co. (Inc.), 25th & Washington av, Phila., Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
COMPANY.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Switches (Time, Automatic)

A. & W. Elec. Signal Co., Cleveland, O.
 American Electric Sign Co., Boston, Mass.
 Anderson, A. & J. M. Mfg. Co. ("Anderson"), Boston, Mass.
 Baird Mfg. Co., 1502 N Halsted, Chicago, Ill.
 Ballou & Hutchins Electric Co. (For Gas & Electricity), Providence, R. I.
 Blissell, F. Co. ("Security"), Toledo, O.
 Campbell Electric Co. ("Campbell"), Lynn, Mass.
 Cleveland Dental Mfg. Co. ("Chappel"), Cleveland, O.
 Crescent Co. ("Crescent"), Valparaiso, Ind.
 Electric Motor & Equipment Co., Newark, N. J.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Jarvis Engine & Machine Works, Lansing, Mich.
 Jones & Gross Elec. Co., 62 Vesey, New York
 Manhattan Electrical Supply Co. ("Mesco"), 17 Park pl, New York
 Peerless Time Switch Co., Elkhart, Ind.
 Redding, Jerome & Co., Boston, Mass.

Switches (Trolley)

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Obenberger, Jno. Co. (For Overhead Trolleys), Milwaukee, Wis.
 Yale & Towne Mfg. Co., 9 Murray, New York

Switches & Turn Tables (Mine)

(See Railways, Industrial & Portable)

Swivels

American Iron & Steel Mfg. Co. (Pipe), Lebanon, Pa.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Brooks, M. S. & Sons (Solid Flat, Nickel or Brass or Steel, etc.), Chester, Conn.
 Dayton Malleable Iron Co., Dayton, O.
DOBBIE FOUNDRY & MACHINE CO. (Ball Bearing, etc.), Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
 Hoopes & Townsend Co. (Closed or Pipe, Open or Arm, etc.), 1330 Buttonwood, Phila., Pa.
 Keystone Drop Forge Works (Or Rope Sockets, Open Arm), Chester, Pa.
 Michigan Bolt & Nut Works, Detroit, Mich.
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)
 Rhode Island Tool Co., Providence, R. I.
 Wilcox, Crittenden & Co. (Wrought Brass & Malleable), Middletown, Conn.
 Wire Woods Co. (Steel Wire), Worcester, Mass.

Swivels (Punching Bag)

Cassady-Fairbank Mfg. Co., 6106 LaSalle, Chicago, Ill.

Swivels (Snap)

Wilcox, Crittenden & Co. (Wrought, Brass & Malleable), Middletown, Conn.
 Wire Goods Co. (Steel Wire), Worcester, Mass.

***Synchroscopes**

WESTINGHOUSE ELECTRIC & MFG. CO., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Syphons (Acid)

Eynon-Evans Mfg. Co. (Lead Lined), 1519 Clearfield, Phila., Pa.
 Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

***Syphons ("Aerlock," Automatic Flushing)**

MERRITT & CO. (For Control of Sewage & Other Liquors), 94 Arch, Camden, N. J. (See adv. index, end of book)

***Syphons (Oil)**

HOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

Syphons (Steam Gauge)

INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

LUNKENHEIMER CO., General Office & Works: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

National Tube Co., Pittsburg, Pa.
 Schaeffer & Budenberg Mfg. Co. (Pressure), 963 Kent av, Brooklyn, N. Y.
 Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

Syrens (Steam)

(See Sirens, Steam)

Syringes (Hypodermic)

Higgins Dental Mfg. Co. (Obtunding), Belleville, O.

Syringes (Oil)

(See Oil Guns & Syringes)

Syringes & Atomizers (Rubber)

Goodrich, B. F. Co., Akron, O.

***Table Tops (Opal Glass)**

MARIETTA GLASS MFG. CO., Indianapolis, Ind. (See adv. index, end of book)

Tables (Adjustable, Reading)

Baker, J. R. & Sons Co., Kendallville, Ind.

Tables (Card & Folding)

BURROWES, E. T. CO., THE, 70 Free, Portland, Me. (See adv. index & branch offices, end of book)
 Curtis Cabinet Co., Jamestown, N. Y.

Tables (Concentrating)

(See also Concentrators, Ore)

ALLIS-CHALMERS CO., Home Ins. bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 American Concentrator Co. ("New Century"), Joplin, Mo.
 Colorado Iron Works Co. ("Bartlett"), 721 17th, Denver, Col.
 Mine & Smelter Supply Co. ("Wildfey"), Denver, Col.

Tables (Hide Stretching)

Seymour & Whitlock ("Full Stretch"), Newark, N. J.

Tables (Paper Hangers')

Webster & Perks Tool Co. (Folding, "Simplex"), Springfield, O.

Tables (Picking)

Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.
 Link Belt Co., W 39th & Stewart av, Chicago, Ill.
 McLanahan-Stone Machine Co., Hollidaysburg, Pa.

Tables (Plate Glass Rolling)

Hooven, Owens, Rentschler Co., Hamilton, O.

Tables (Rolling Mill Feed)

Aetna Foundry & Machine Co., Warren, O.
 American Roll & Foundry Co., Canton, O.
 Lewis Foundry & Machine Co., Coraopolis, Pa.
 Morgan Construction Co., Worcester, Mass.
MORGAN ENGINEERING CO. (Electric), Alliance, O. (See adv. index, end of book)
 United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Tables (Saw Brazing)

COVEL MFG. CO., Benton Harbor, Mich. (See adv. index, end of book)
 Hanchett Sewage Works, Big Rapids, Mich.

Tables (Soap Cutting)

(See also Soap Makers' Machinery)

Dopp, W. H. Co. ("Dopp"), Buffalo, N. Y.
 Houchin, Aiken Co., 37 53rd, Brooklyn, N. Y.

Tables (Slime)

(See also Mining Machinery)

Deister Concentrator Co. ("Deister"), Fort Wayne, Ind.
 Chalmers & Williams (Revolving), Commercial Nat'l Bank bldg, Chicago, Ill.

Tables (Steel)

Lyon Metallic Mfg. Co. (For All Purposes), Aurora, Ill.

Tables (Transfer)

Barbour-Stockwell Co., Cambridge, Mass.
 Bonnot Co., Canton, O.
 Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
CAREY, GEO. H., B'way, New York. (See adv. index, end of book)
 Cleveland Car Co., West Park, O.
 Hunt, C. W. Co., West New Brighton, S. I., N. Y.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

ERNST WIENER COMPANY.
 RAILROAD SPECIALISTS FOR ALL INDUSTRIES.

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
 Wharton, Wm., Jr., & Co., 25th & Washington av, Phila., Pa.

***Tables (Transfer, Electric)**

CLEVELAND CRANE & ENGINEERING Co., Cleveland, O. (See adv. index, end of book)
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Tables (Typewriter)

Hetterschled Mfg. Co. ("20th Century Adjustable"), Grand Rapids, Mich.

Tablets (Bronze, Etc.)

(See Bronze Tablets, etc.)

***Tablets (Cast Brass, Bronze or Iron)**

STANDARD CO., Railway Exchange bldg, Chicago, Ill. (See adv. index, end of book)
TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

Tachometers

Du Vivier, Ernest H., 30 Church, New York
 Empire Machine Works ("Empire"), 210 3 av, Pittsburg, Pa.
 Gurley, W. & L. E., Troy, N. Y.
INDUSTRIAL INSTRUMENT CO. ("Dr. Horn" Portable & Stationary), Foxboro, Mass. (See adv. index & branch offices, end of book)
NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
QUEEN & CO., N. W. c 8th & Arch, Phila., Pa. (See adv. index, end of book)
 Schaeffer & Budenberg Mfg. Co. (Portable, Stationary, Indicating & Recording), 963 Kent av, Brooklyn, N. Y.
 Uehling Instrument Co., Passaic, N. J.
 Veeder Mfg. Co. ("Veeder"), Hartford, Conn.

Tackoscopes

Schaeffer & Budenberg Mfg. Co. (Non-Magnetic), 963 Kent av, Brooklyn, N. Y.

Tack Claws

Browne, W. G. Mfg. Co. ("Star Combination," "Sterling Neverbreak," etc.), Kingston, N. Y.
 Browne & Dowd Mfg. Co. ("Standard Giant"), Meriden, Conn.
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Kraeuter & Co., Newark, N. J.
 Landers, Frary & Clark (Cast Steel & Malleable Iron), New Britain, Conn.
 Mayhew, H. H. Co., Shelburne Falls, Mass.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Tack Mfrs.

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg., Chicago. (See adv. index & branch offices, end of book)
 Anderson Tack Co., Rockland, Mass.
 Atlas Tack Co. (Cut & Wire), Fairhaven, Mass.
 Binghamton Tack Co. (Carpet, Shoe, Upholsters, Trimmers, etc.), Binghamton, N. Y.
 Carter, Geo. A. (Shoe), Brockton, Mass.
 Churchill & Allen (Shoe), Lynn, Mass.
 Cleveland Tack Works (Shoe, Upholsters & Carpet), Hamilton av & E 49th, Cleveland, O.
 Cobb & Drew, Plymouth, Mass., & Rock Falls, Ill.
 Cole, H. C. & W. S., Kingston, Mass.
 Cross, W. W. & Co. (Inc.), (Tacks & Shoe Nails), Brockton, Mass.
 Dunham, Geo. B., Brockton, Mass.

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

Ford, L. E. Co., Kingston, Mass.
 Fuller, G. E. & A. I., Keene, N. H.
 Grand Crossing Tack Co. (Carpet, etc.), S
 Chicago av & 79th, Chicago, Ill.
 Gurney, D. B., Whitman, Mass.
 Haverhill Tack Co., Haverhill, Mass.
 H. C. Tack Co., Cleveland, O.
 Hobart, Benj. Co., Whitman, Mass.
 Holland Mfg. Co., Baltimore, Md.
 Hussey, C. G. & Co. (Copper), Pittsburg, Pa.
 Judson Mfg. Co., San Francisco, Cal.
 Keystone Nail Co., 1618 Wash'n, av, Phila., Pa.
 Kimball Bros. & Sprague, Brockton, Mass.
 Kirk-Latty Mfg. Co. (Cut), Cleveland, O.
 Maglathlin, F. W. & Co., Kingston, Mass.
 Maglathlin, H. B., Silver Lake, Mass.
MERCHANT & EVANS CO. (Inc.)
 (Copper), 517 Arch, Phila., Pa. (See
 adv. index & branch offices, end of book)
 Miller's, H. J. Sons (Shank & Machine Shoe),
 Bridgewater, Mass.

Milwaukee Tack Co., Milwaukee, Wis.
 Morgan Spring Co., Worcester, Mass.
 National Screw & Tack Co., Cleveland, O.
 Osborne, W. & Co., Lakeville, Mass.
 Parker Wire Goods Co. (Wire), Worcester,
 Mass.
 Phillips, Ezra & Sons, South Hanover, Mass.
 Plymouth Mills, Plymouth, Mass.
 Reading Screw Co., Norristown, Pa.
 Ripley & Bartlett, Plymouth, Mass.
 Rome Brass & Copper Co. (Brass & Copper),
 Rome, N. Y.

Salmon, Sam'l & Son, Hanover, Mass.
 Shelton Co. (Cut), Shelton, Conn.
 Stanley, Geo. W. Co., Belleville, Ill.
 Stevens & Willis Co., South Braintree, Mass.
 Superior Tack & Nail Co., Pen Yan, N. Y.
 Tatum, Sam. C. Co. (Thumb), Cincinnati, O.
 Taunton Wire Nail Co. (Wire, Carpet, Bill
 Poster, etc.), Taunton, Mass.
 Tower Mfg. Co. (Steel, Iron, Copper, etc.),
 Cincinnati, O., & Madison, Ind.
TURNER & SEYMOUR MFG. CO.
 (Thumb, Upholsterers, etc.), Torrington,
 Conn. (See adv. index, end of book)
 Waterman, R. C. (Carpet & Upholstering, etc.),
 Hanover, Mass.
 Wire Goods Co., Worcester, Mass.
 York Tack & Nail Wks. (Also Nails), York, Pa.

Tack Mfrs. (Double Pointed)

Atlas Tack Co., Fairhaven, Mass.
 Cobb & Drew, Plymouth, Mass., & Rock Falls,
 Ill.
 Grand Crossing Tack Co., S Chicago av & 79th,
 Chicago, Ill.
 Judd, H. L. & Co., 87 Chambers, New York
 Milwaukee Tack Co., Milwaukee, Wis.
 Morgan Spring Co., Worcester, Mass.
 Phillips, B. Sons, South Hanover, Mass.
 Pickering, R. S., Sharon Hill, Pa.
 Plymouth Mills, Plymouth, Mass.
 Reading Screw Co., Norristown, Pa.
 Stanley, Geo. W. Co., Belleville, Ill.
 Superior Tack & Nail Co., Pen Yan, N. Y.
 Taunton Wire Nail Co., Taunton, Mass.
 Titchener, E. H. & Co., Binghamton, N. Y.
 Tower Mfg. Co., Cincinnati, O., & Madison, Ind.
 Wire Goods Co., Worcester, Mass.
WRIGHT WIRE CO., Worcester, Mass.
 (See adv. index & branch offices, end of book)

Tack Mfrs. (Lead)

Chadwick-Boston Lead Co., Boston, Mass.

*Tack Mfrs. (Insulated Wiring)

WILMINGTON FIBRE SPECIALTY
 Co., Wilmington, Del. (See adv. index,
 end of book)

Tack Mfrs. (Upholsterers')

Berbecker & Rowland Mfg. Co. (Brass Furni-
 ture Nails), Waterville, Conn.
 Cleveland Tack Wks., Hamilton av & E 49th
 Cobb & Drew, Plymouth, Mass.
 Equipoise Rivet Co., Waterbury, Conn.
 Genesee Tack Co., Rochester, N. Y.
 Grand Crossing Tack Co., S Chicago av &
 79th, Chicago, Ill.
 Hungerford, U. T., Brass & Copper Co. (Brass),
 497 Pearl, New York
 Mattatuck Mfg. Co. (Brass), Waterbury, Conn.
 Milwaukee Tack Co., Milwaukee, Wis.
 Plymouth Mills, Plymouth, Mass.
 Ripley & Bartlett, Plymouth, Mass.
 Salmond, Sam & Son, Hanover, Mass.
 Shelton Co., Shelton, Conn.
 Tockwotten Co., Providence, R. I.
 Tower Mfg. Co., Cincinnati, O.

Traut & Hine Mfg. Co., New Britain, Conn.
TURNER & SEYMOUR MFG. CO.,
 Torrington, Conn. (See adv. index, end
 of book)
 Waterman, R. C., Hanover, Mass.

Tack Molds (Plumbers')

Johnson, Wm. (Hedenberg W'ks), Newark, N. J.

*Tacks (Rubber-Headed)

PENNSYLVANIA RUBBER CO., Jean-
 nette, Pa. (See adv. index & branch
 offices, end of book)

Tacks (Thumb)

Albrecht, Chas. R., 62 Fulton, New York
 Hawkes-Jackson Co. ("Solidhed"), 82 Duane,
 New York
 Tatum, Samuel C. Co., Cincinnati, O.
TURNER & SEYMOUR MFG. CO.,
 Torrington, Conn. (See adv. index, end
 of book)

*Tags (Bicycle)

NIAGARA FALLS METAL STAMP-
 ing Works, Niagara Falls, N. Y. (See
 adv. index, end of book)

Tags (Cable)

Harvard Electric Co., 60 W Van Buren, Chi-
 cago, Ill.
 Ridlon, Frank Co., Boston, Mass.

*Tags (Dog)

NIAGARA FALLS METAL STAMP-
 ing Works, Niagara Falls, N. Y. (See
 adv. index, end of book)

*Tags (Hard Fibre)

AMERICAN VULCANIZED FIBRE
 Co. (Vulcanized), Wilmington, Del. (See
 adv. index, end of book)
DELAWARE HARD FIBRE CO.,
 Wilmington, Del. Works, Marshalltown,
 Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO., Els-
 mere, Del. (See adv. index, end of book)
WILMINGTON FIBRE SPECIALTY
 Co., Wilmington, Del. (See adv. index,
 end of book)

*Tags (Hotel Key, Etc.)

AMERICAN RAILWAY SUPPLY CO.,
 26 Park pl, New York. (See adv. index,
 end of book)
NIAGARA FALLS METAL STAMP-
 ing Works, Niagara Falls, N. Y. (See
 adv. index, end of book)

Tags (Shipping)

(See also Tags, Tin; also Tags, Zinc)
 Adjustable Clip & Tag Mfg. Co. ("Bull
 Dog"), 465 Atlantic av, Boston, Mass.
 Allen, Robert T., Jackson, Mich.
 American Mfg. Co., Battle Creek, Mich.
 American Tag Co., State & 61st, Chicago, Ill.
 Dennison Mfg. Co., 15 John, New York
 Denny Tag Co., West Chester, Pa.
 Eastern Pin Ticket & Tag Co., Perkasio, Pa.
 Folding Paper Box Co., South Bend, Ind.
 Gair, Robert Co., Wash'n & Plymouth, Brook-
 lyn, N. Y.
 Keystone Tag Co., West Chester, Pa.
 Murray Mfg. Co., Newnan, Ga.
 National Tag Co., Dayton, O.
 Reyburn Mfg. Co., 22nd & Allegheny av,
 Phila., Pa.
 Thomas Stationery Mfg. Co., Springfield, O.

Tags (Tin)

Ammidon & Co., Baltimore, Md.
 Consolidated Fruit Jar Co., New Brunswick,
 N. J.
 Federal Mfg. Co., Baltimore, Md.
 Murdock, Jas., Jr., Cincinnati, O.
WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of book)

Tags (Zinc)

Hill, Jas. H. & Sons, Coventry, R. I.

Tailors' (Irons)

(See Sad Irons)

Take-Ups

Dodge Mfg. Co., Mishawaka, Ind.
 Link Belt Co., W 39th & Stewart av, Chicago,
 Ill., & 299 B'way, New York
 Nordyke & Marmon Co. (Rope), Indianapolis,
 Ind.

Talc Blanks (Insulator & Gas Burner)

North Carolina Talc & Mining Co., Hewitts,
 N. C.

Talc Mfrs. & Miners

Atlas, M. & M. Co., Lincoln, N. J.
 Chemical Mfg. Co., Covington, Ky.
 Cohutta Talc Co., Dalton, Ga.
DOGGETT, STANLEY, 101 Beekman,
 New York. (See adv. index, end of book)
LEAVITT, C. W. & CO. (Mfrs.' Agts.)
 30 Church, New York. (See adv. index,
 end of book)
 North Carolina Talc & Mining Co., Hewitts,
 N. C.
 Smith, J. Lee & Co. (Importers), 59 Frankfort,
 New York
 Novelty Burner Co. (Flour & Scrap), Chatta-
 nooga, Tenn.
 Southern Talc Co., Beta, N. C.
 Union Talc Co., 132 Nassau, New York.

Talc (Powdered)

Binney & Smith Co., 81 Fulton, New York
DOGGETT, STANLEY, 101 Beekman,
 New York. (See adv. index, end of book)
 Hoffman, F. G., Beta, N. C.
 Nevins, Sam'l Co. (French & American), 109 S
 2d, Phila., Pa.
 North Carolina Talc & Mining Co., Hewitts,
 N. C.
 Salomon, L. A. & Bro. (French), 216 Pearl,
 New York
 Steward, D. M. Mfg. Co., Chattanooga, Tenn.
 Waever & Lea Co., 118 Hudson, New York
 Whittaker, W. H., 245 Front, New York
 Williams, C. K. & Co., Easton, Pa.

Talking Machine Needles

Hawthorne & Sheble Mfg. Co., Howard & Jef-
 ferson, Phila., Pa.
 Petmecky Talking Machine Co., New York Life
 bldg, New York
 Symphonic Phone-Needle Co., 1907 Park av,
 New York

Tallow

Armour & Co., Chicago, Ill.
 Biggs & Koch, Kansas City, Mo.
 Birmingham Hide & Tallow Co., Birmingham,
 Ala.
 California Tallow Works, San Francisco, Cal.
 Consolidated Rendering Co., 44 N Market, Bos-
 ton, Mass.
 Cudahy Packing Co., Omaha, Neb.
 Darling & Co., Chicago, Ill.
 Davis Oil Co., Brooklyn, N. Y.
 East River Melting Co., 769 1st av, New York
 Elkin, H. & Co., 201 Michigan, Chicago, Ill.
 Flavel Co., Asbury Park, N. J.
 Marshall, Jacob & Son, Syracuse, N. Y.
 Marx Hide & Tallow Co., 147 4th, Louisville,
 Ky.
 Morris & Co., The Rookery, Chicago, Ill.
 New Orleans Butchers' Hide & Tallow Co.
 (Ltd.), New Orleans, La.
 New York Butchers' Fat Melting Co., ft W
 39th, New York
 Rochester Tallow Co., Rochester, N. Y.
 Rosenberg, Jos., Meeker av nr Newtown creek,
 Brooklyn, N. Y.
 St. Louis Hide & Tallow Co., 5125 N 2d, St.
 Louis, Mo.
 Schwartzchilds & Sulzberger Co., 46th & E. R.,
 New York
 Stern, Jos. & Sons, 614 W 40th, New York
 Swift & Co., Chicago, Ill., & Jersey City, N. J.
 United Dressed Beef Co., New York
 Van Iderstine, F. A. & Son, 272 Hudson av,
 New York
 Van Iderstine's, Peter Sons, R. R. av, L. I.,
 N. Y.
 Wise, L. & Bro., 36 Main, Cincinnati, O.

Tampers (Concrete)

Anderson Mfg. Co. ("Magic"), Moorhead,
 Minn.
 Anderson, W. H. Tool & Supply Co., 14 & 16
 Macomb, Detroit, Mich.
 Columbus Foundry & Machine Co. ("Embleton"
 Power), Columbus, O.

Fireproof Supply Co. ("Johnson" Slice), Atlanta, Ga.
 Kramer Bros. Foundry Co. ("Gem" Hand), Dayton, O.
RANSOME CONCRETE MACHINERY CO., Dunellen, N. J. (See adv. index & branch offices, end of book)
 Sheldon, E. H. & Co., 84 N May, Chicago, Ill.
 Stortz, John & Son, 210 Vine, Phila., Pa.

Tampers (Dirt & Sod)

Dunn Mfg. Co. (For Sewer & Trench Work, etc.), Westinghouse bldg., Pittsburg, Pa.
 Modern Iron Works (Iron Handle), Quincy, Ill.
 Stortz, John & Son, 210 Vine, Phila., Pa.
 Swett, A. L. Iron Works, Medina, N. Y.

Tank Fixtures

BALTIMORE COOPERAGE CO., THE, c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
FAIRBANKS, MORSE & CO., Wash av & Eldredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
 Kalamazoo R'y Supply Co., Kalamazoo, Mich.
 McGowan, John H. Co. (Water, Railroad Only), 54 Central av, Cincinnati, O.

Tank Pulls

(See Pulls, Closet)

Tank Saddles

(See Boiler Saddles)

Tanks (Acid)

AMERICAN BOILER WORKS, Louisville, Ky.
 Aurora Boiler Works (Inc.), Aurora, Ill.
BALTIMORE COOPERAGE CO., THE, c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
CALDWELL, W. E. CO. (Yellow Pine or Cypress a Specialty), Brook & D, Louisville, Ky. (See adv. index, end of book)
CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)
CONNERY & CO., 9th & Master, Phila., Pa. (See adv. index, end of book)
 Corcoran, A. J. (Inc.), 11 John, New York
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
 Hammond Iron Works, Warren, Pa.
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
MacKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)
 Morgan Construction Co., Worcester, Mass.
 New York Central Iron Works Co., Geneva, N. Y.
 Norcross Co. (Euclid Stone), 1264 Riverbed, Cleveland, O.
PETROLEUM IRON WORKS CO. (Steel), Sharon, Pa. (See adv. index & branch offices, end of book)
 Piedmont Soapstone Co. (Soapstone), 55 Congress, Boston, Mass. Works, Ashestine, Va.
REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
 Walls, Owen & Stambach Co. (Soapstone), 11th & Ridge av, Phila., Pa.
 Warren City Tank & Boiler Co., Warren, O.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

Tanks (Air)

AIR-TIGHT STEEL TANK CO., Pittsburg, Pa.
AMERICAN BOILER WORKS, Louisville, Ky.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Aurora Boiler Works (Inc.), Aurora, Ill.
BALTIMORE COOPERAGE CO., THE (Air Pressure), c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)
CONNERY & CO., 9th & Master, Phila., Pa. (See adv. index, end of book)
GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)
GRISCOM-SPENCER CO., 90 West, New York. & ft Washington av, Phila., Pa. (See adv. index & branch offices, end of book)
INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)
 Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan, Chicago, Ill. (See adv. index, end of book)
KEWANEE WATER SUPPLY CO., Kewanee, Ill. (See adv. index, end of book)



KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
MacKINNON BOILER & MACHINE CO., Bay City, Mich. (See adv. index, end of book)
MICHELMANN STEEL CONSTRUCTION Co., Quincy, Ill. (See adv. index, end of book)
 New York Central Iron Works Co., Geneva, N. Y.

Penna. Range Boiler Co., 2010 N 10th, Phila., Pa.
PETROLEUM IRON WORKS CO., Sharon, Pa. (See adv. index & branch offices, end of book)
 Pittsburg Steel Tank Co., Pittsburg, Pa.
PRESSED STEEL TANK CO. (Seamless Steel), Milwaukee, Wis. (See adv. index, end of book)
REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)
 Treadwell, M. H. Co., 90 West, New York. Works: Lebanon, Pa.
 Warren City Tank & Boiler Co., Warren, O.
WILSON, F. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

*Tanks (Air Brake)

CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

Tanks (Air Compressor)

Abendroth & Stein (Inc.), 39 Cortlandt, New York
CANTON BOILER & ENGINEERING CO., Canton, O. (See adv. index, end of book)
KEWANEE BOILER CO., Kewanee, Ill., & 35 Michigan, Chicago, Ill. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York. (See adv. index, end of book)
MICHELMANN STEEL CONSTRUCTION Co., Quincy, Ill. (See adv. index, end of book)
REEVES BROS. CO., Alliance, O. (See adv. index & branch offices, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)

*Tanks (Aquarium)

BALTIMORE COOPERAGE CO., THE, c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

Tanks (Asphalt Heating)

(See Heaters, Asphalt)

Tanks (Automobile, Fuel Storage)

A-Z Co., 402 11th av, New York
 American Generator Co., 63d & Park av, New York
 Avery Stamping Co. ("Never Break"), Lake & Cleveland, O.
BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)
BOWSER, S. F. & CO. (Inc.), Fort Wayne, Ind. (See adv. index & branch offices, end of book)

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 Eastern Oil Tank Co., Lowell, Mass.
 Funke, A. H., 83 Chambers, New York
 Gilbert & Barker Mfg. Co., Springfield, Mass.
 Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.
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 Hydraulic Oil Storage & Distributing Co., ("Snell's"), Penobscot bldg., Detroit, Mich.
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 International Non-Explosive Tank Co., 140 Nassau, New York

Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
 Kaltenbach, Fred., 10 Jefferson, Chicago, Ill.
KEWANEE BOILER CO., Kewanee,
 Ill., & 35 Michigan, Chicago, Ill. (See adv. index, end of book)

Kinsey Mfg. Co., Dayton, O.
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)
 National Oil Pump & Tank Co., Dayton, O.
 Non-Explosive Can & Device Co., 84 Chambers, New York

Prest-O-Lite Co., Indianapolis, Ind.
 Safety Tank Co., 25 W 42d, New York
SCAIFE, WM. B. & SONS CO., 221 1st
 av., Pittsburg, Pa. (See adv. index, end of book)

Sexton Can Co., 2 Hartford, Boston, Mass.
 Tokheim Mfg. Co., Cedar Rapids, Ia.
 Western Oil Pump Co., 2437 Kosciusko, St. Louis, Mo.

WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of book)

*Tanks (Automobile Storage, Garage)

BOWSER, S. F. & CO. (Inc.), Fort
 Wayne, Ind. (See adv. index & branch offices, end of book)

*Tanks (Automobile, Water & Gasoline)

BADGER, E. B. & SONS CO., 75 Pitts,
 Boston, Mass. (See adv. index, end of book)
KEIM, JNO. R. MILLS (Inc.), Buf-
 falo, N. Y. (See adv. index, end of book)

Tanks (Beet Sugar Syrup)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)

MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index, end of book)

REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)

Treadwell, M. H. Co., 90 West, New York.
 Works, Lebanon, Pa.

Tanks (Blow-Off)

Abendroth & Stein (Inc.), 39 Cortlandt, New York

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)
 Estabrook's, R. Sons ("Boston" with Clean-out Cover), 204 W 1st, S. B., Boston, Mass.

GRISCOM-SPENCER CO., 90 West,
 New York, & 14 Washington av., Phila., Pa.
 (See adv. index & branch offices, end of book)

KEWANEE BOILER CO., Kewanee,
 Ill., & 35 Michigan, Chicago, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)
 New York Central Iron Works Co., Geneva, N. Y.

Tanks (Boat)

(See Tanks, Car & Boat)

Tanks (Brazing)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

Ironclad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
 av., Pittsburg, Pa. (See adv. index, end of book)

Tanks (Calcium Light)

(See Cylinders, Calcium Light)

*Tanks (Car Lighting)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

PRESSED STEEL TANK CO., Mil-
 wankee, Wis. (See adv. index, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st
 av., Pittsburg, Pa. (See adv. index, end of book)

*Tanks (Car Wheel Annealing)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)

Tanks (Car & Boat)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)

GRAVER, WM. TANK WORKS (Oil
 & Acid), East Chicago, Ind. (See adv. index, end of book)

GRISCOM-SPENCER CO., 90 West,
 New York, & 14 Washington av., Phila., Pa.
 (See adv. index & branch offices, end of book)

MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index, end of book)

PETROLEUM IRON WORKS CO.,
 Sharon, Pa. (See adv. index & branch offices, end of book)

Pollock, Wm. B. C., Youngstown, O.

Petty, J. K. & Co. (Lebanon Boiler Works),
 Stephen Girard bldg., Phila., Pa. Works,
 Lebanon, Pa.

REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
 av., Pittsburg, Pa. (See adv. index, end of book)

Warren City Tank & Boiler Co., Warren, O.
WELLER MFG. CO., 124 E. North av.,
 Chicago, Ill. (See adv. index, end of book)

Tanks (Cast Iron Storage)

Bethlehem Foundry & Machine Co., Front,
 South Bethlehem, Pa.

MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index, end of book)

*Tanks (Cold Storage)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)

MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index, end of book)

PETROLEUM IRON WORKS CO.,
 Sharon, Pa. (See adv. index & branch offices, end of book)

REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)

Tanks (Compressed Air)

Abendroth & Stein (Inc.), 39 Cortlandt, New York

AMERICAN WELL WORKS, Aurora,
 Ill. (See adv. index & branch offices, end of book)

Aurora Boiler Works (Inc.), Aurora, Ill.
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)

GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)

KEIM, JNO. R. MILLS (Inc.), Buf-
 falo, N. Y. (See adv. index, end of book)

KEWANEE BOILER CO., Kewanee,
 Ill., & 35 Michigan av., Chicago, Ill. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)

New York Central Iron Works Co., Geneva, N. Y.

PETROLEUM IRON WORKS CO.,
 Sharon, Pa. (See adv. index & branch offices, end of book)

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 Works, Lebanon, Pa.



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 (See adv. index, end of book)
 Trussed Concrete Steel Co., Trussed Concrete
 bldg., Detroit, Mich.

Tanks (Condenser)

Abendroth & Stein (Inc.), 39 Cortlandt, New
 York
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)
MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index,
 end of book)
PETROLEUM IRON WORKS CO.,
 Sharon, Pa. (See adv. index & branch
 offices, end of book)
REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st
 av., Pittsburg, Pa. (See adv. index, end of
 book)

Tanks (Copper)

BADGER, E. B. & SONS CO., 63 Pitts,
 Boston, Mass. (See adv. index, end of
 book)
BOWSER, S. F. & CO. (Inc.), Fort
 Wayne, Ind. (See adv. index & branch
 offices, end of book)
 Briscoe Mfg. Co., Detroit, Mich.
GRISCOM-SPENCER CO., 90 West,
 New York & ft. Washington av., Philadel-
 phia, Pa. (See adv. index & branch of-
 fices, end of book)
 Hayes Mfg. Co., Detroit, Mich.
 Kells, W. J. Mfg. Co., Jersey City, N. J.
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)
 Quinby, J. M. & Co., Newark, N. J.
 Randolph-Clowes Co., Waterbury, Conn.
 Rome Brass & Copper Co., Rome, N. Y.
SHAW, BENJ. F. CO., Wilmington,
 Del. (See adv. index, end of book)
 Trageser, John, Steam Copper Works, 447 W.
 26th, New York
 Walker, James & Son, Detroit, Mich.
WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of book)

Tanks (Creosoting)

(See Cylinders, Creosoting)

Tanks (Cyanide)

(See also Tanks, Wood)

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end
 of book)
AMERICAN BOILER WORKS, Louis-
 ville, Ky.
 Aurora Boiler Works (Inc.), Aurora, Ill.
BALTIMORE COOPERAGE CO., THE,
 e Hanover & Creek, Baltimore, Md. (See
 adv. index, end of book)
CALDWELL, W. E. CO., Louisville,
 Ky. (See adv. index, end of book)
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)
 Denver Engineering Works Co., Denver, Colo.
GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)
 Hammond Iron Works, Warren, Pa.
 Harmon, S. H. Lumber Co., San Francisco,
 Cal.
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)
MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index,
 end of book)
 Mine & Smelter Supply Co., Denver, Colo.
MINNEAPOLIS STEEL & MACHIN-
 ery Co., Minneapolis, Minn. (See adv. in-
 dex & branch offices, end of book)
 Pacific Tank Co., Los Angeles, Cal.
PETROLEUM IRON WORKS CO.,
 Sharon, Pa. (See adv. index & branch
 offices, end of book)
 Power & Mining Machinery Co. (Steel), Cudahy,
 Wis.
REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)

Redwood Mfg. Co. (Cal. Redwood), 8 Califor-
 nia, San Francisco, Cal.
 Silver Bros. Iron Works Co., Salt Lake City,
 Utah
 Treadwell, M. H. Co., 90 West, New York
 Works, Lebanon, Pa.
 Warren City Tank & Boiler Co., Warren, O.
 Weigle Riveted Steel Pipe Works, 2949 Lar-
 mer, Denver, Col.
 Western Pipe & Steel Co., Los Angeles, Cal.

Tanks (Cylindrical)

BALTIMORE COOPERAGE CO., THE,
 e Hanover & Creek, Baltimore, Md. (See
 adv. index, end of book)
BOWSER, S. F. & CO. (Inc.), Fort
 Wayne, Ind. (See adv. index & branch
 offices, end of book)
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)
MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index,
 end of book)
 Petty, J. K. & Co. (Lebanon Boiler Works),
 Stephen Girard bldg., Phila., Pa. Works,
 Lebanon, Pa.
 Pittsburg Steel Construction Co., Lewis Block,
 Pittsburg, Pa. Works, Economy, Pa.
WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of book)

*Tanks (Dipping)

BOWSER, S. F. & CO. (Inc.), Fort
 Wayne, Ind. (See adv. index & branch
 offices, end of book)
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)
MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index,
 end of book)
REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)
WILSON, F. CORTEZ & CO., 239 Lake,
 Chicago, Ill. (See adv. index, end of book)

*Tanks (Dry Cleaners')

BOWSER, S. F. & CO. (Inc.), Fort
 Wayne, Ind. (See adv. index & branch
 offices, end of book)

Tanks (Expansion)

AMERICAN BOILER WORKS, Louis-
 ville, Ky.
 American Radiator Co. ("Ideal," Automatic,
 etc.), 282 Michigan av., Chicago, Ill.
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
CENTRAL FOUNDRY CO. (Green
 House), 37 Wall, New York. (See adv.
 index, end of book)
 Cody, Jos. & Sons, Peoria, Ill.
 Detroit Range Boiler Co., 619 24th, Detroit,
 Mich.
 Drake, Wm., Springfield, Ill.
 Frost Mfg. Co., Galesburg, Ill.
GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)
 Grote Mfg. Co., Evansville, Ind.
 Hibbs, E. A., 212 Quarry, Philadelphia, Pa.
 Hopson & Chapin Mfg. Co. (Cast Iron Anto-
 matic Feed), New London, Conn.
 Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
 Iron Clad Mfg. Co., 204 Varet, Brooklyn, N. Y.
KEWANEE BOILER CO., Kewanee,
 Ill. & 35 Michigan av., Chicago, Ill. (See
 adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York
 (See adv. index, end of book)
 Lawler Regulator Co. ("Lawler's" Auto-
 matic), 473 W Broadway, New York
 McAleenan Boiler Co., Peoria, Ill.
 Mott, J. L., Iron Works, 118 5th av., New York
 Murray Iron Works Co., Burlington, Ia.
 New York Central Iron Works Co., Geneva,
 N. Y.
 Page, W. H. Boiler Co., 15 Murray, New
 York
 Penna. Range Boiler Co., 2010 N 10th & Norri-
 s, Phila., Pa.
PRESSED STEEL TANK CO., MIL-
 waukee, Wis. (See adv. index, end of book)

Pierce, Butler & Pierce Mfg. Co., Syracuse,
 N. Y.
REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)
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 lyn, N. Y.
SCAIFE, WM. B. & SONS CO.
 ("Scaife," Automatic, etc.), 221 1st av.,
 Pittsburg, Pa. (See adv. index, end of
 book)
 Springfield Boiler & Mfg. Co., Springfield, Ill.
 Star Boiler Works (Inc.), Clinton, Ia.
 Thompson Iron Works, 1825 Callowbill, Phila.,
 Pa.
 Trageser, John, 477 W 26th, New York
 Treadwell M. H. Co., 90 West, New York
 Works, Lebanon, Pa.
 Wolff, L. Mfg. Co., 117 W. Lake, Chicago, Ill.
 Wood, John Mfg. Co. (Electric Welded Seam-
 less), Conshohocken, Pa.

Tanks (Filter)

AMERICAN BOILER WORKS, Louis-
 ville, Ky.
BALTIMORE COOPERAGE CO., THE
 (Wooden), cor. Hanover & Creek, Balti-
 more, Md. (See adv. index, end of book)
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
CONNERY & CO., 9th & Master,
 Phila., Pa. (See adv. index, end of book)
GRISCOM-SPENCER CO., 90 West,
 New York, & ft. Washington av., Philadel-
 phia, Pa. (See adv. index & branch offices,
 end of book)
KOVEN, L. O. & BRO., 50 Cliff, New
 York. (See adv. index, end of book)
 New York Central Iron Works Co., Geneva,
 N. Y.
PETROLEUM IRON WORKS CO.,
 Sharon, Pa. (See adv. index & branch
 offices, end of book)
REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st
 av., Pittsburg, Pa. (See adv. index, end of
 book)
 Warren City Tank & Boiler Co., Warren, O.

*Tanks (Fire Extinguisher)

BALTIMORE COOPERAGE CO., THE,
 cor. Hanover & Creek, Baltimore, Md.
 (See adv. index, end of book)
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)
REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)
SCAIFE, WM. B. & SONS CO., 221 1st
 av., Pittsburg, Pa. (See adv. index, end of
 book)

Tanks (Fuel Oil)

BOWSER, S. F. & CO. (Inc.), Fort
 Wayne, Ind. (See adv. index & branch
 offices, end of book)
CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of
 book)
GRAVER, WM. TANK WORKS, East
 Chicago, Ind. (See adv. index, end of book)
KOVEN, L. O. & BRO., 50 Cliff, New York.
 (See adv. index, end of book)
MacKINNON BOILER & MACHINE
 Co., Bay City, Mich. (See adv. index,
 end of book)
 Old Colony Light Co. ("Puritan"), 214 Pleasant,
 Boston, Mass.
PETROLEUM IRON WORKS CO.,
 Sharon, Pa. (See adv. index & branch
 offices, end of book)
REEVES BROS. CO., Alliance, O.
 (See adv. index & branch offices, end of book)

When writing to firms whose
 names appear in this book
 please mention

HENDRICKS'
COMMERCIAL REGISTER.

SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of book)

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

Tanks (Galvanized Steel)

BALTIMORE COOPERAGE CO., THE,
cor. Hanover & Creek, Baltimore, Md.
(See adv. index, end of book)

BOWSER, S. F. & CO. (Inc.), Fort
Wayne, Ind. (See adv. index & branch
offices, end of book)

Butler Co., Butler, Ind.

CALDWELL, W. E. CO., Brook & D.,
Louisville, Ky. (See adv. index, end of book)

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of book)

Challenge Co., Batavia, Ill.

Chicago Steel Tank Co., 194 Mather, Chicago, Ill.

Cox & Neel Steel Tank Co., St. Louis, Mo.

Dickelman Mfg. Co., Forest, O.

FAIRBANKS, MORSE & CO., Wa-
bash av & Eldredge pl, Chicago, Ill. (See
adv. index & branch offices, end of book)

Flint & Walling Mfg. Co., Kendallville, Ind.

Freeland, B. F. Sons Co., Sturgis, Mich.

GRISCOM-SPENCER CO., 90 West,
New York, & ft. Washington av, Philadel-
phia, Pa. (See adv. index & branch offices,
end of book)

Harry Bros. Mfg. Co. (Corrugated), Dallas,
Tex.

Harry, O. K. Steel Works (Corrugated Stock,
Storage, etc.), Dallas, Tex., & St. Louis,
Mo.

Hunt & Dorman Mfg. Co. (Iron Storage), 21
Bright, Cleveland, O.

Kelly Foundry & Machine Co., Goshen, Ind.

Kelly Mfg. Co. (Stock, Storage, Creamery, etc.),
Waterloo, Ia.

KEWANEE BOILER CO., Kewanee,
Ill., & 35 Michigan av, Chicago, Ill. (See
adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York,
(See adv. index, end of book)

Littleford Bros., 453 E Pearl, Cincinnati, O.

Lyon Metallic Mfg. Co., Aurora, Ill.

MILWAUKEE CORRUGATING CO.,
Milwaukee, Wis. (See adv. index & branch
offices, end of book)

Muenzermayer, J. J. & W. F. (Iron Stock),
Junction City, Kans.

National Steel Tank Co., Niles, Mich.

New York Central Iron Wks Co., Geneva, N. Y.

Ohio Galvanizing & Mfg. Co. (Steel), Niles, O.

Omaha Tank Mfg. Co., Omaha, Neb.

PETROLEUM IRON WORKS CO.,
Sharon, Pa. (See adv. index & branch
offices, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of book)

SHAW, BENJ. F. CO., Wilmington,
Del. (See adv. index, end of book)

Treadwell, M. H. Co., 90 West, New York.
Works: Lebanon, Pa.

Waterloo Mfg. Co. (Stock, Storage, Creamery,
etc.), Waterloo, Iowa

WILSON, F. CORTEZ & CO., 239 Lake
Chicago, Ill. (See adv. index, end of book)

*Tanks (Gas Engine)

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KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

PRESSED STEEL TANK CO., Mil-
waukee, Wis. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of book)

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Chicago, Ill. (See adv. index, end of book)

Tanks (Gasoline)

Air-Tight Steel Tank Co. (Storage for Motor
Cars, etc.), Pittsburg, Pa.

AMERICAN BOILER WORKS, Louis-
ville, Ky.

Avery Stamping Co. ("Never Break"), Lake
& Col., Cleveland, Ohio

BOWSER, S. F. & CO. (Inc.) (Self-
Measuring), Fort Wayne, Ind. (See adv.
index & branch offices, end of book)

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of book)

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)

KEWANEE BOILER CO., Kewanee,
Ill., & 35 Michigan av, Chicago, Ill. (See
adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York,
(See adv. index, end of book)

New York Central Iron Works Co., Geneva,
N. Y.

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but a Complete
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manufacturers and
jobbers in every line of
trade that comes within
the scope of the work.

REEVES BROS. CO., Alliance, O.,
(See adv. index & branch offices, end of book)

SCAIFE, WM. B. & SONS CO. (Stor-
age, Launch, Underground, etc.), 221 1st av,
Pittsburg, Pa. (See adv. index, end of book)

Pittsburg Steel Tank Co., Pittsburg, Pa.

Warren City Tank & Boiler Co., Warren, O.

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

Wilson & Friend Co. ("Acme"), 200 E Kinzie,
Chicago, Ill.

Tanks (Glass Enameled Steel)

(See Tanks, Steel Glass Enameled)

Tanks (Grain Elevator)

(See Tanks, Grain Elevator & Grain Storage)

Tanks (Grain Elevator & Grain Storage)

BALTIMORE COOPERAGE CO., THE,
c Hanover & Creek, Baltimore, Md. (See
adv. index, end of book)

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of book)

CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)

Sharon, Pa. (See adv. index & branch
offices, end of book)

Corcoran, A. J. (Inc.), 11 John, New York

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New
York. (See adv. index, end of book)

MACKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index,
end of book)

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. index
& branch offices, end of book)

PETROLEUM IRON WORKS CO.,
Sharon, Pa. (See adv. index, end of book)

Pittsburg Steel Construction Co., Lewis Block,
Pittsburg, Pa. Works, Economy, Pa.

Pollock, Wm. B. Co., Youngstown, O.

REEVES BROS CO., Alliance, O. (See adv.
index & branch offices, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of book)

Treadwell, M. H. Co., 90 West, New York.
Works, Lebanon, Pa.

Tanks (Grain Storage)

(See Tanks, Grain Elevator & Grain Storage)

Tanks (High Pressure)

(See Tanks, Pressure)

Tanks (Hydrogen & Oxygen)

(See Cylinders, Hydrogen & Oxygen)

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Abendroth & Stein (Inc.), 39 Cortlandt, New
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Aermotor Co. (Steel Only), Campbell av., nr
12th, Chicago, Ill.

Alr-Tight Steel Tank Co., Pittsburg, Pa.

Allentown Boiler Works (Collum & Knouse,
Props.), Allentown, Pa.

AMERICAN BOILER WORKS, Louis-
ville, Ky.

AMERICAN WELL WORKS, Aurora,
Ill. (See adv. index & branch offices, end
of book)

Aurora Boiler Works, Aurora, Ill.

Baker Mfg. Co., Evansville, Wis.

BALTIMORE COOPERAGE CO., THE,
cor. Hanover & Creek, Baltimore, Md.

BOWSER, S. F. & CO. (Inc.), Fort
Wayne, Ind. (See adv. index & branch
offices, end of book)

Bridgeport Boiler Works, Bridgeport, Conn.

Briscoe Mfg. Co., Detroit, Mich.

Rushnell Tank Works (Steel), Bushnell, Ill.

CALDWELL, W. E. CO., Brook & D.
Louisville, Ky. (See adv. index, end of book)

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of
book)

Casey-Hedges Co., Chattanooga, Tenn.

Chicago Bridge & Iron Works (Horace E Hor-
ton, Prop.), W 105th & Throop, Chicago, Ill.

Childs, S. D. & Co. (Brass, Steel & Alumi-
num), 200 Clark, Chicago, Ill.

Coatesville Boiler Works, Coatesville, Pa.

Cole, R. D. Mfg. Co., Newnan, Ga.

Columbiana Boiler Co., Columbiana, O.

Columbus Steam Boiler & Heater Co., Colum-
bus, O.

Connellsville Iron Works, New Haven, Conn.

CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)

Cruse-Kemper Co. (Oil & Water), Ambler, Pa.

Daily & Fowler (Oil & Water, etc.), 39 Laurel,
Phila., Pa.

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Duff Patents Co., Frick bldg., Pittsburg, Pa.

East Jersey Pipe Co., Paterson, N. J.

Edge Moor Iron Co., Wilmington, Del.

Elba Iron Mfg. Co., Beverly, N. J.

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Chicago, Ill.

Hammond Iron Works (Steel), Warren, Pa.

Harlan & Hollingsworth Corp., ft. West st.,
Wilmington, Del.

Harrisburg Fdry. & Mach. W'ks, Harrisburg,
Pa.

Hartley's Boiler W'ks, Montgomery, Ala.

Hellman Boiler Works, Allentown, Pa.

Hendrick Mfg. Co., Carbondale, Pa.

Hibbs, E. A. (Oil, Drip, Blow-Off, Storage,
etc.), 213 Quarry, Phila., Pa.

Hill Boiler Works, 102nd & Ave N, Chicago,
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Hodge Boiler Works, Sumner nr N Ferry, East
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Honhorst, Joseph Co., Cincinnati, O.

Honolulu Iron Works Co., Honolulu, Hawaii

Jarvis Engine & Machine Works, Lansing,
Mich.

Kalamazoo Tank & Silo Co., Kalamazoo, Mich.

KEELER, E. CO., Williamsport, Pa.
(See adv. index & branch offices, end of
book)

Kehoe, Wm. & Sons, Savannah, Ga.

KEIM, JNO. R. MILLS (Inc.), Buf-
falo, N. Y. (See adv. index, end of
book)

Kerr-Murray Mfg. Co., Fort Wayne, Ind.

KEWANEE WATER SUPPLY CO.,
Kewanee, Ill., & 35 Michigan av, Chicago,
Ill. (See adv. index, end of book)

Kittoe Boiler & Tank Co. (Steel), Canton, O.

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. on following page)

Kroeschell Bros. Co., 55 Erie, Chicago, Ill.

Lappan, Jas. Mfg. Co., 20th & Pike, Pittsburg,
Pa.

Leetonia Boiler Co., Leetonia, O.

Lookout Boiler & Mfg. Co., Chattanooga, Tenn.

Love Bros., Inc., Aurora, Ill.

McNeil, Jas. & Bro. Co., 29th & A. V. Ry.,
Pittsburg, Pa.

MackINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index,
end of book)

Massillon Bridge & Structural Co., Massillon,
Ohio

Meehan Boiler & Construction Co., Lowell
ville, O.

MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)

MICHELMANN STEEL CONSTRUC-
tion Co., Quincy, Ill. (See adv. index,
end of book)

Milwaukee Boiler Co., Milwaukee, Wis.

MINNEAPOLIS STEEL & MACHIN-
ery Co., Minneapolis, Minn. (See adv. in
dex & branch offices, end of book)

Munroe, R. & Sons Corporation Co., 23d &
Smallman, Pittsburg, Pa.

Newbold, R. S. & Son Co., Norristown, Pa.

Niles Steel Tank Co., Niles, Mich.

New York Central Iron Works Co., Geneva,
N. Y.

Novelty Steam Boiler Works (Triplett & Jen-
nings, Props.), 917 Howard, Baltimore, Md.

Odlum-Taylor Boiler Co. (Steel), Memphis, Tenn.

Oil City Boiler Works (Inc.), Oil City, Pa., &
39 Cortlandt, New York

Oldman Boiler Works (Steel Only), 38 Illi-
nois, Buffalo, N. Y.

Ontenberg Iron Works Co., Sheboygan, Wis.

Oswego Boiler & Engine Co., Oswego, N. Y.

Pacific Tank Co., Los Angeles, Cal.

Penna. Boiler Works, Erie, Pa.

Penna. Steel Co. (Steel), Steelton, Pa.

Pennsylvania Iron Works, Erie, Pa.

PETROLEUM IRON WORKS CO.
(Gas, Oil & Water), Sharon, Pa. (See adv.
index & branch offices, end of book)

Petty, J. K. & Co., Stephen Girard bldg., Phila.,
Pa. Works, Lebanon, Pa.

Pfeiffer, Chris. Boiler Co., 70 Michigan, Chi-
cago, Ill.

Philadelphia Iron Works, 18th & Penna av,
Phila., Pa.

Phoenix Iron W'ks, Portland, Ore.

Phoenix Iron Works Co., Meadville, Pa.

Pittsburg Steel Construction Co., 708 Lewis
Blk., Pittsburg, Pa. Works, Economy, Pa.

Pollock, Wm. B. Co., Youngstown, O.

Porter Foundry & Machine Co., Pittsburg, Pa.

Portland Co., 58 Fore, Portland, Me.

Pusey & Jones Co., Wilmington, Del.

REEVES BROS. CO., Alliance, O.
(See adv. index & branch offices, end of book)

Ritter-Conley Mfg. Co., 56 Water, Pittsburg,
Pa.

Ricard Boiler & Engine Co., Toledo, O.

Robb-Munford Boiler Co. (Inc.), S. Framing-
ham, Mass.

RUGGLES-COLES ENGINEERING CO., 39
Cortlandt, New York. (See adv. index, end
of book)

SCAIFE, WM. B. & SONS CO., 221
1st av, Pittsburg, Pa. (See adv. index, end
of book)

Schalkenbach & Budke, Jersey City, N. J.

SCHREIBER, L. & SONS CO., 8th &
Eggleson av, Cincinnati, O., & 1133
B'way, New York. (See adv. index, end
of book)

Scioto Boiler W'ks, 33 N Scioto, Columbus, O.

Sharkey & Peck, 1175 W. 18th, Chicago, Ill.

SHAW, BENJ. F. CO., Wilmington,
Del. (See adv. index, end of book)

Specialty Engineering Co. (Steel), 1008 E
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Niles, O.

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Struthers-Weiss Co. (Of All Descriptions), War-
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Tippett & Wood, Phillipsburg, N. J.
Titusville Iron Co., Titusville, Pa.
Treadwell, M. H. Co., 90 West, New York.

Works: Lebanon, Pa.
Turl's Jno. Sons (Inc.), 26 Cortlandt, New
York; Works: Newburgh, N. Y.
Union Boiler & Mfg. Co., Lebanon, Pa.
Union Iron Works, Erie, Pa.
Union Iron Works Co., San Francisco, Cal.
United States Wind Engine & Pump Co., Ba-
tavia, N. Y.

Urie-Snyder Iron Works Co., Kansas City, Mo.
Variety Iron & Steel Works Co., Cleveland, O.
Walsh's Holyoke Steam Boiler Works, Holyoke,
Mass.

Wanger, Jos. F. Boiler & Sheet Iron Co., 1547
N 9th, St. Louis, Mo.

Warren City Tank & Boiler Co., Warren, O.
Waterloo Mfg. Co., Waterloo, Ia.
Watson, Jas. H. Co. (Inc.), Bradley, Ill.
Webber Iron Works, Birmingham, Ala.
Weigle, Wm. A. Steel Pipe Works, Larimer
& 30th, Denver, Colo.

Western Pipe & Steel Co., Los Angeles, Cal.
White, Robt. Engineering Works, ft. of Co-
lumbia, Brooklyn, N. Y.

WILFONG BROS., 52d & Grays av.,
Phila., Pa. (See adv. index, end of book)

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

WORDEN-ALLEN CO., P. O. Box 528
Milwaukee, Wis. (See adv. index & branch
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York Mfg. Co., York, Pa.

*Tanks (Jacketed)

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Co., Canton, O. (See adv. index, end of
book)

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

MacKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index,
end of book)

REEVES BROS. CO., Alliance, O.
(See adv. index & branch offices, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
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WILSON, F. CORTEZ & CO., 239 Lake
Chicago, Ill. (See adv. index, end of book)

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Boston, Mass. (See adv. index, end of book)

Colwell Lead Co., 109 Lafayette, New York

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of
book)

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Avery Portable Lighting Co. ("Autogas"),
Milwaukee, Wis.

Avery Stamping Co. ("Never Break" Steel),
Lake & Coe, Cleveland, O.

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of
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PRESSED STEEL TANK CO., Milwaukee,
Wis. (See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st
av, Pittsburg, Pa. (See adv. index, end of
book)

Tanks (Lubricating Oil Storage)
(See also Cabinets, Oil)

BOWSER, S. F. & CO. (Inc.), Fort
Wayne, Ind. (See adv. index & branch
offices, end of book)

Delphos Mfg. Co. (Non-overflowing), Delphos,
Ohio

Turner Oil Filter Co. ("Turner"), Niles, Mich.

Wall, P. Mfg. & Supply Co., Pittsburg, Pa.

Weston Oil Pump Co., St. Louis, Mo.

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index & branch
offices, end of book)

Wilson & Friend Co. ("Acme"), 200 E Kinzie,
Chicago, Ill.

Tanks (Metal)

AMERICAN BOILER WORKS, Louis-
ville, Ky.

American Can Co., 447 W. 14th St, New York

CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

Lyon Metallic Mfg. Co., 10 Ann, Aurora, Ill.

Tanks (Mixing)

Aurora Boiler Works (Inc.), Aurora, Ill.

BALTIMORE COOPERAGE CO., THE
(Wooden Mixing), cor. Hanover & Creek,
Baltimore, Md. (See adv. index, end of
book)

BOWSER, S. F. & CO. (Inc.), Fort
Wayne, Ind. (See adv. index & branch
offices, end of book)

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of
book)

Hammond Iron Works Co., Warren, Pa.

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

MacKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index,
end of book)

Treadwell, M. H. Co., 90 West, New York.

Works: Lebanon, Pa.

WILSON, F. CORTEZ & CO., 239 Lake
Chicago, Ill. (See adv. index, end of book)

Tanks (Molasses)

BALTIMORE COOPERAGE CO., THE,
c Hanover & Creek, Baltimore, Md. (See
adv. index, end of book)

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of
book)

CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)

Chicago Bridge & Iron Works, Throop & 105th,
Chicago, Ill.

GRAVER, WM. TANK WORKS, East
Chicago, Ind. (See adv. index, end of book)

Hamond Iron Works, Warren, Pa.

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

MacKINNON BOILER & MACHINE
Co., Bay City, Mich. (See adv. index,
end of book)

PETROLEUM IRON WORKS CO.,
Sharon, Pa. (See adv. index & branch of-
fices, end of book)

REEVES BROS. CO., Alliance, O.
(See adv. index & branch offices, end of book)

Treadwell, M. H. Co., 90 West, New York.

Works: Lebanon, Pa.

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

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Co., Canton, O. (See adv. index, end of
book)

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

*Tanks (Muffle)

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. index, end of
book)

KOVEN, L. O. & BRO., 50 Cliff, New York.
(See adv. index, end of book)

SCAIFE, WM. B. & SONS CO., 221 1st av,
Pittsburg, Pa. (See adv. index, end of book)

*Tanks (Naphtha)

BOWSER, S. F. & CO. (Inc.) (For
Dryers & Dry Cleaners), Fort Wayne, Ind.
(See adv. index & branch offices, end of book)

Tanks (Oil)

(See also Tanks, Lubricating Oil Storage)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

AMERICAN BOILER WORKS, Louis-
ville, Ky.

Aurora Boiler Works (Inc.), Aurora, Ill.

BOWSER, S. F. & CO. (Inc.) (Paint
Lubricants), Fort Wayne, Ind. (See adv. in-
dex & branch offices, end of book)

Bushnell Tank Works (Wool), Bushnell, Ill.

CANTON BOILER & ENGINEERING
Co., Canton, O. (See adv. on following page)

Casey-Hedges Co., Chattanooga, Tenn.

CONNERY & CO., 9th & Master,
Phila., Pa. (See adv. index, end of book)

Chicago Bridge & Iron Works, Throop & 105th,
Chicago, Ill.

Connelly, D. Boiler Co. (Oil Transportation),
Cleveland, O.

Cruse-Kemper Co., Amhler, Pa.

Deity & Fowler, 39 Laurel, Phila., Pa.

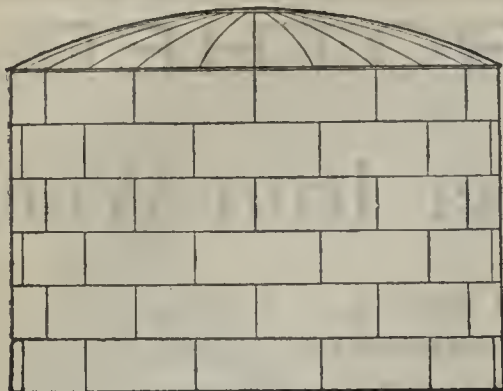
Delphos Mfg. Co. (Non-Overflowing), Delphos, O.

Gas Machinery Co. (Storage), Cleveland, O.

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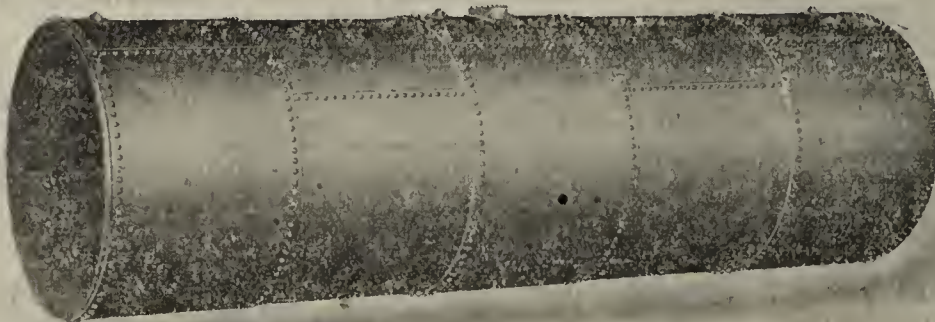
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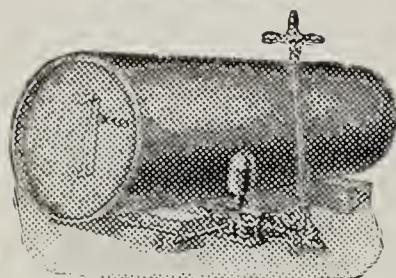
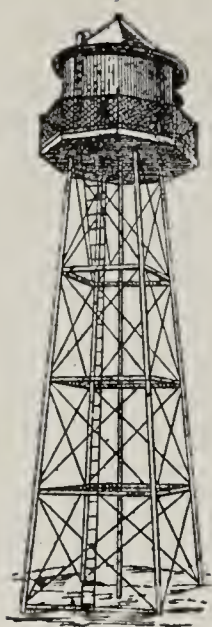
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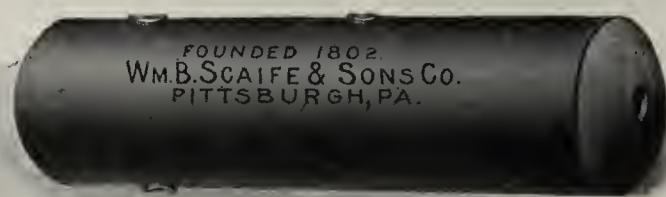
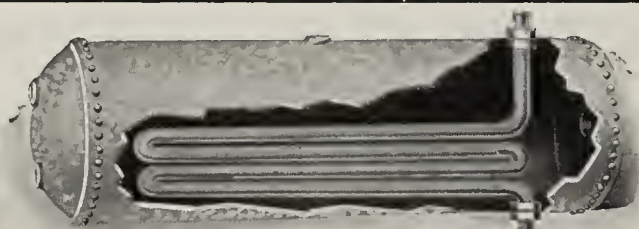
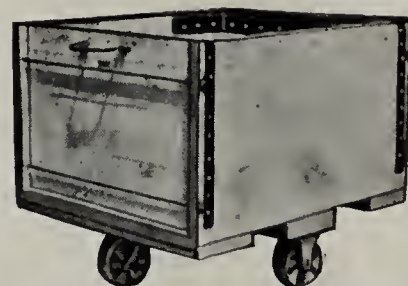
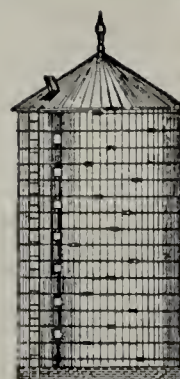
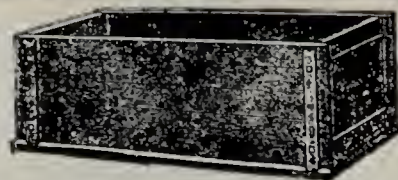


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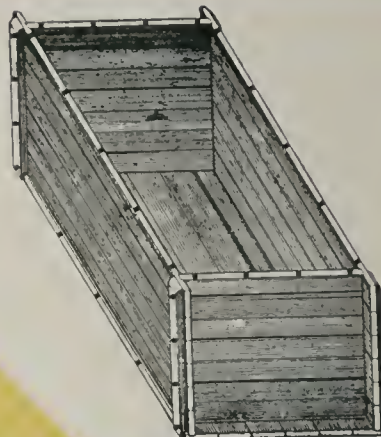
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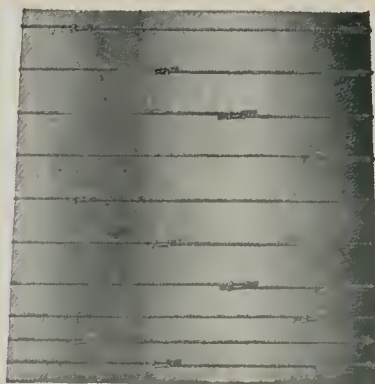
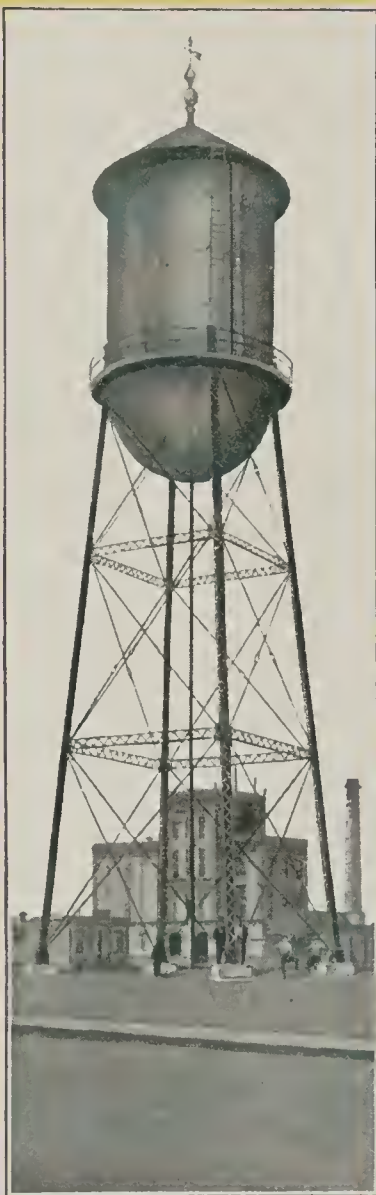
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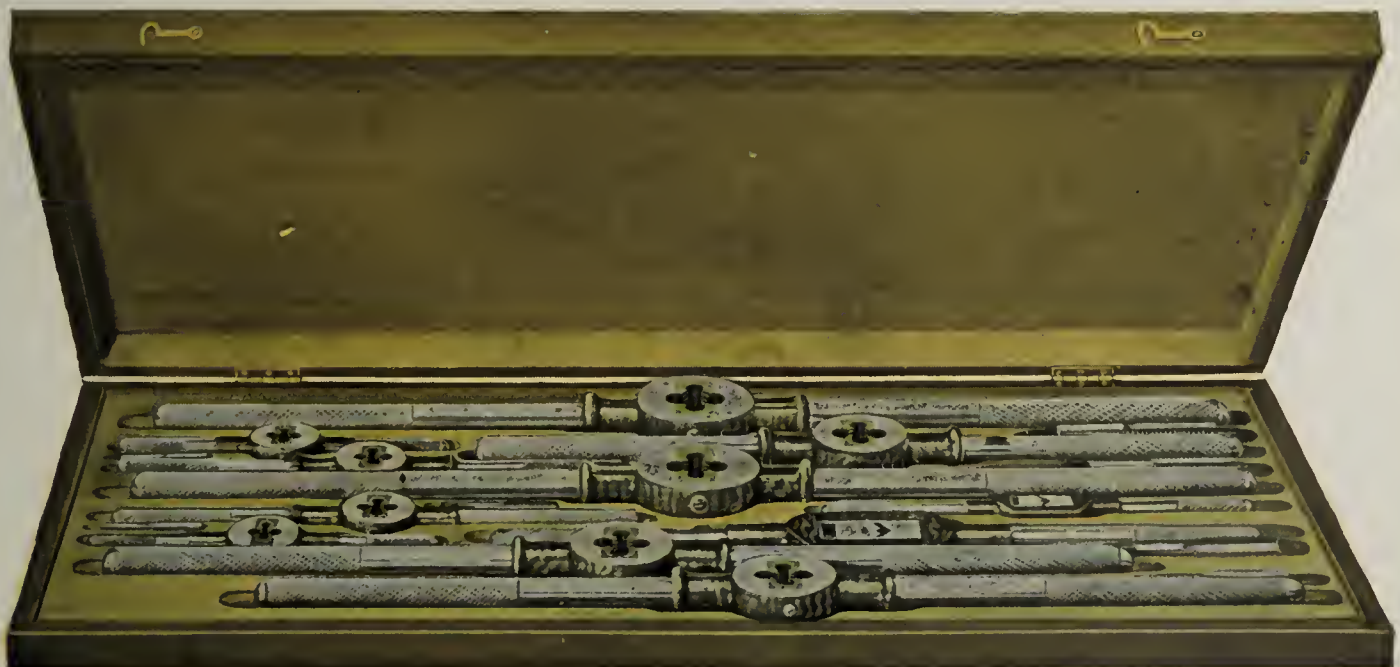
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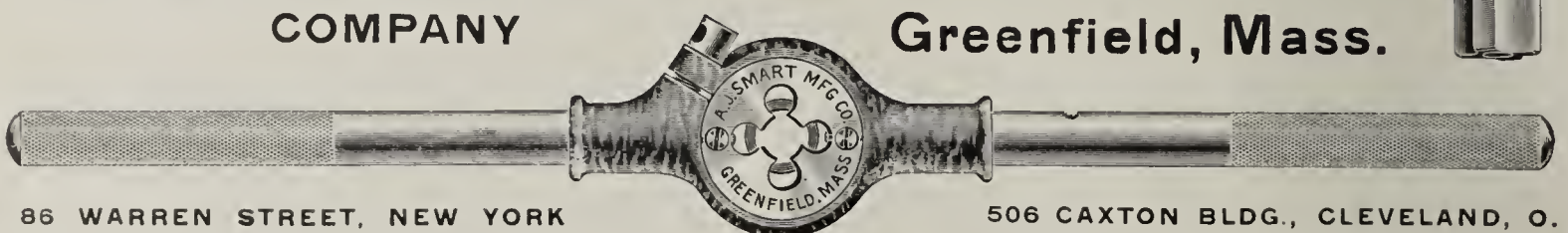
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King, J. M. Co. (Inc.), Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
Reynolds & Co., 321 East, New Haven, Conn.
SMART, A. J. MFG. CO. ("Smart"), Greenfield, Mass. (See adv. index, end of book)
Standard Tool Co., Central av & P. Ry., Cleveland, O.
Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co., Wrentham, Mass.

Taps (Machine Screw)

American Screw Co., Providence, R. I.
AMERICAN TAP & DIE CO. ("Eagle" Brand, "Adamantine," "Temper"), Greenfield, Mass. (See adv. index, end of book)
BAY STATE TAP & DIE CO., Mansfield, Mass. (See adv. index, end of book)
Besly, C. H. & Co., 15 S Clinton, Chicago, Ill.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.
Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.
Holroyd & Co., Waterford, N. Y.
King, J. M. Co. (Inc.), Waterford, N. J.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
Mount Carmel Bolt Co., Mount Carmel, Conn.
Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.
Reed & Prince Mfg. Co., Worcester, Mass.
Reynolds & Co., New Haven, Conn.
SMART, A. J. MFG. CO. ("Smart"), Greenfield, Mass. (See adv. index, end of book)
Standard Tool Co., Central av. & P. Ry., Cleveland, O.
Superior Tap Co., Springfield, Vt.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
Winter Bros. Co. ("Thistle"), Wrentham, Mass.

Taps (Machinists' Hand)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)
Bay State Tap & Die Co., Mansfield, Mass.
Brubaker, W. L. & Bros., Millersburg, Pa.
Butterfield & Co., Derby Line, Vt.

**IMPORTANT**

When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible.

S. E. HENDRICKS CO.,
74 LAFAYETTE STREET,
NEW YORK, N. Y.

Card, S. W. Mfg. Co., Mansfield, Mass.
Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

CLEVELAND TWIST DRILL CO.
Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Hart Mfg. Co. ("Duplex"), Cleveland, O.
Holroyd & Co., Waterford, N. Y.
Hoopes & Townsend, 1330 Buttonwood, Philadelphia, Pa.

King, J. M. Co. (Inc.), Waterford, N. Y.
MORSE TWIST DRILL & MACHINE CO.
New Bedford, Mass. (See adv. index, end of book)

Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.
Reece, E. F. Co., Greenfield, Mass.

Reed & Prince Mfg. Co., Worcester, Mass.
Reynolds & Co., New Haven, Conn.

SMART, A. J. MFG. CO. ("Smart"),
Greenfield, Mass. (See adv. index, end of book)

Standard Tool Co., Central av. & P. Ry. Cleveland, O.

Superior Tap Co., Springfield, Vt.

WELLS BROS. CO. ("Little Giant"),
Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Winter Bros. Co. ("Thistle"), Wrentham, Mass.

*Taps (Mud Wash-Out)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

SMART, A. J. MFG. CO. ("Smart"), Greenfield, Mass. (See adv. index, end of book)

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Taps (Patch Bolt)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

Bay State Tap & Die Co., Mansfield, Mass.
Besly, Chas. H. & Co., 15 S Clinton, Chicago, Ill.

Brubaker, W. L. & Bros., Millersburg, Pa.
Card, S. W. Mfg. Co., Mansfield, Mass.

Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

Chicago Screw Co., 519 Homan av., Chicago, Ill.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Holroyd & Co., Waterford, N. Y.

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Pawtucket Mfg. Co., Pawtucket, R. I.

Polk, A. J. & Son, Millersburg, Pa.
Pratt & Whitney Co., Hartford, Conn.

Reece, E. F. Co., Greenfield, Mass.

SMART, A. J. MFG. CO. ("Smart"), Greenfield, Mass. (See adv. index, end of book)

Standard Tool Co., Cleveland, O.

Superior Tap Co., Springfield, Vt.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co., Greenfield, Mass.

Winter Bros. Co., Wrentham, Mass.

Taps (Pulley)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

Bay State Tap & Die Co., Mansfield, Mass.

Besly, Chas. H. & Co., 15 S Clinton, Chicago, Ill.

Brubaker, W. L. & Bros., Millersburg, Pa.

Butterfield & Co., Derby Line, Vt.

Card, S. W. Mfg. Co., Mansfield, Mass.

Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)

Holroyd & Co., Waterford, N. Y.

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Polk, A. J. & Son, Millersburg, Pa.

Pratt & Whitney Co., Hartford, Conn.

Reece, E. F. Co., Greenfield, Mass.

SMART, A. J. MFG. CO. ("Smart"), Greenfield, Mass. (See adv. index, end of book)

Standard Tool Co., Central av. & P. Ry., Cleveland, O.

Superior Tap Co., Springfield, Vt.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Winter Bros. Co., Wrentham, Mass.

Taps (Stay Bolt)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

Baldwin Steel Co. ("Hudson" Reinforced, 133 Rende, New York)

Bay State Tap & Die Co., Mansfield, Mass.

Besly, Chas. H. & Co., 15 S Clinton, Chicago, Ill.

Brubaker, W. L. & Bros., Millersburg, Pa.

Butterfield & Co., Derby Line, Vt.

Card, S. W. Mfg. Co., Mansfield, Mass.

Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th. (See adv. index, end of book)

Holroyd & Co., Waterford, N. Y.

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Oswego Tool Co., Oswego, N. Y.

Polk, A. J. & Son, Millersburg, Pa.

Pratt & Whitney Co., Hartford, Conn.

Reece, E. F. Co., Greenfield, Mass.

SMART, A. J. MFG. CO. ("Smart" Spindle Stay Bolt), Greenfield, Mass. (See adv. index, end of book)

Superior Tap Co., Springfield, Vt.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Winter Bros. Co., Wrentham, Mass.

Taps (Stove Bolt)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

Bay State Tap & Die Co., Mansfield, Mass.

Card, S. W. Mfg. Co., Mansfield, Mass.

Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

Holroyd & Co., Waterford, N. Y.

MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)

Monnt Carmel Bolt Co., Monnt Carmel, Conn.

Polk, A. J. & Son, Millersburg, Pa.

Reece, E. F. Co., Greenfield, Mass.

Reed & Prince Mfg. Co., Worcester, Mass.

SMART, A. J. MFG. CO. ("Smart"), Greenfield, Mass. (See adv. index, end of book)

Superior Tap Co., Springfield, Vt.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Winter Bros. Co., Wrentham, Mass.

Taps (Taper)

AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)

Bay State Tap & Die Co., Mansfield, Mass.

Card, S. W. Mfg. Co., Mansfield, Mass.

Carpenter, J. M. Tap & Die Co. (Bicycle, etc.), Pawtucket, R. I.

Holroyd & Co. (Bicycle, etc.), Waterford, N. Y.

King, J. M. Co. (Inc.), Waterford, N. Y.

Polk, A. J. & Son, Millersburg, Pa.

Reece, E. F. Co., Greenfield, Mass.

SMART, A. J. MFG. CO. ("Smart" Blacksmith), Greenfield, Mass. (See adv. index, end of book)

Superior Tap Co., Springfield, Vt.

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO., West Pullman, Chicago, Ill. (See adv. index & branch offices, end of book)

Winter Bros. Co., Wrentham, Mass.

Taps (Tapper)

AMERICAN TAP & DIE CO. ("Eagle" Brand, "Adamantine," "Temper"), Greenfield, Mass. (See adv. index, end of book)

Bay State Tap & Die Co., Mansfield, Mass.

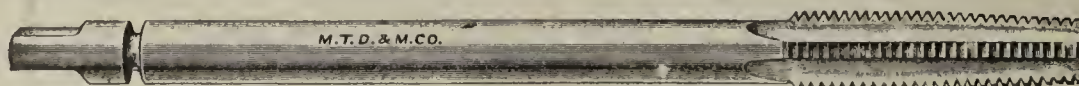
Butterfield & Co. (Bicycle, etc.), Derby Lane, Conn.

Card, S. W. Mfg. Co., Mansfield, Mass.

Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

Holroyd & Co., Waterford, N. Y.

"MORSE" TAPS



These Tapper Taps are specially adapted for use in single and multiple tapping machines. Designed and tempered for use in hot pressed or rough iron nuts.

We carry a large number of styles and sizes of TAPS in stock which are fully illustrated in our Catalog. Look it over. It costs nothing. It is Free.

Morse Twist Drill & Machine Company

NEW BEDFORD, MASS., U. S. A.

Morse Twist Drill & Machine Co., New Bedford, Mass.
 Polk, A. J. & Son, Millersburg, Pa.
 Reece, E. F. Co., Greenfield, Mass.
SMART, A. J. MFG. CO. ("Smart"), Greenfield, Mass. (See adv. index, end of book)
 Superior Tap Co., Springfield, Vt. (of book)
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
 Winter Bros. Co., Wrentham, Mass.

Taps & Drills (Combined Pipe)

Bay State Tap & Die Co., Mansfield, Mass.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
 Reece, E. F. Co., Greenfield, Mass.
 Superior Tap Co., Springfield, Vt.
WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Taps & Drills (Pipe)

Besley, Chas. H. & Co., 15 S Clinton, Chicago, Ill.
 Brubaker, W. L. & Bros., Millersburg, Pa.
 Carpenter, J. M. Tap & Die Co. (d'Alpe Taps Only), Pawtucket, R. I.
CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)
 Holroyd & Co., Watford, N. Y.
MORSE TWIST DRILL & MACHINE CO., New Bedford, Mass. (See adv. index, end of book)
 Pratt & Whitney, Hartford, Conn.
 Reece, E. F. Co., Greenfield, Mass.
 Standard Tool Co., Central & P. Ry., Cleveland, O.

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.

Taps & Reamers (Pipe)

American Die & Tool Co., Reading, Pa.
AMERICAN TAP & DIE CO. ("Eagle" Brand), Greenfield, Mass. (See adv. index, end of book)
 Ashcroft Mfg. Co., 85 Liberty, New York Works, Bridgeport, Conn.
 Bay State Tap & Die Co., Mansfield, Mass.
 Besley, Chas. H. & Co., 15 S Clinton, Chicago, Ill.
 Billings & Spencer Co. (Taps Only), Hartford, Conn.
 Brubaker, W. L. & Bros., Millersburg, Pa.
 Butterfield & Co. ("Derby"), Derby Line, Vt.
 Card, S. W. Mfg. Co., Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co., Pawtucket, R. I.

CLEVELAND TWIST DRILL CO., Lakeside av. & 49th, Cleveland, O. (See adv. index, end of book)
 Hart Mfg. Co. ("Duplex"), Cleveland, O.
 Holroyd & Co., Watford, N. Y.
 Keystone Die Stock Co. ("J. J. Delehant's Keystone"), 754 W. 47th, Chicago, Ill.
 Kling, J. M. Co. (Inc.), Watford, N. Y.
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
MORSE TWIST DRILL & MACHINE CO. (Also Straight & Whitworth Pipe Taps), New Bedford, Mass. (See adv. index, end of book)
 Mueller, H. Mfg. Co. (Ratchet Handle Pipe Reamers), Decatur, Ill.

Polk, A. J. & Son, Millersburg, Pa.
 Pratt & Whitney Co., Hartford, Conn.
 Putnam Machine Co., Fitchburg, Mass.
 Reece, E. F. Co. ("Heracles"), Greenfield, Mass.
 Saunders, D. Sons, Vankers, N. Y.
SMART, A. J. MFG. CO. ("Smart"), Taps, Hobs & Reamers, Greenfield, Mass. (See adv. index, end of book)
 Standard Tool Co., Central av. & P. Ry., Cleveland, O.
 Superior Tap Co. (Taps), Springfield, Vt.
 Victor Tool Co. (Collapsing Pipe Taps), Waynesboro, Pa.

Walworth Mfg. Co., 132 Federal, Boston, Mass.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)
 Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
 Winter Bros. Co., Wrentham, Mass.

Tar Burning Systems (Smokeless)

Connelly Iron Sponge & Governor Co., 50 Church, New York

Tar Mfrs.

(See Coal Tar Products)

Tar (Pine)

(See Oil, Pine)

Martin, Wm. A. & Co., Wilmington, N. C.
 Shotton, S. P. Co., Savannah, Ga.
 Willcox-Lives Oil Co., Savannah, Ga.

Tarpaulins, Wagon Covers, Etc.

(See also Tents for Railroad Contractors)
 Lane, J. H. & Co., 110 Worth, New York
 Lee Brothers, Memphis, Tenn.
 Sullivan, Jno. & Son, 356 Hudson, New York

Technical Institutions

(See Engineering Schools & Colleges)

Tedders (Hay)

Ames Plow Co., Quincy Hall, Boston, Mass.
 Belcher & Taylor Agricultural Tool Co., Chicopee Falls, Mass.
 Hocking Valley Mfg. Co., Lancaster, O.
 Howell, R. R. & Co., 31st av., cor. S. E. 4th, Minneapolis, Minn.
 International Harvester Co. of America (Steel Frame, etc.), Chicago, Ill.
 Johnston Harvester Co., Batavia, N. Y.
 Messinger Mfg. Co., Tatamy, Pa.
 Ohio Lake Co., Dayton, O.
 Richardson Mfg. Co., Worcester, Mass.
 Sillherzahn Mfg. Co., West Bend, Wis.
 Sterling Mfg. Co., Sterling, Ill.
 Stoddard Mfg. Co., Dayton, O.
 Thomas Mfg. Co., Springfield, O.
 Wood, Walter A. Mowing & Reaping Machine Co., Hoosick Falls, N. Y.

*Tees (Pipe)

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index and branch offices, end of book)
LUNKENHEIMER CO. (BRASS), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Teeth (Bundle Carrier)

Morgan Spring Co., Worcester, Mass.
 National Tube Co. (Cast-Malleable & Brass, with "Kewanee" Union), Pitsburg, Pa.

Teeth (Cultivator)

Allen, S. L. & Co., 1017 Market, Phila., Pa.
 Bateman Mfg. Co., Grenloch, N. J.
 Cambria Steel Co. (Gantier Dept.), Johnstown, Pa., & Arcade bldg, Phila., Pa.
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Harrow Spring Co. (Spring), Kalamazoo, Mich.
 Hench & Dromgold Co., York, Pa.
 Parlin & Orendorff Co., Canton, Ill.

Teeth for Crusher Rolls

Keystone Drop Forge Works, Chester, Pa.
 Scranton Forging Co. (For Coal or Salt), Scranton, Pa.

Teeth (Hay Loader)

Harrow Spring Co., Kalamazoo, Mich.
 Morgan Spring Co., Worcester, Mass.

Teeth (Hay Rake)

(See Rake & Tedder Teeth)

Teeth (Two-Part)

Taylor Iron & Steel Co. ("Panama"), High Bridge, N. J.

Teeth (Weeder)

Babcock Mfg. Co., Leonardsville, N. Y.
 Harrow Spring Co., Kalamazoo, Mich.

Telegraph Apparatus

BUNNELL, J. H. & Co. ("Duplex" & "Quadruplex"), Park pl. & Church, New York. (See adv. index, end of book)
 Electric Mfg. & Equipment Co., Atlanta, Ga.
 Pearce, Fred'k Co., 20 Rose, New York

Telegraph Poles

(See Poles, Various Kinds; also Ties, Poles & Posts)

Telegraph Systems (Wireless)

American Deforest Wireless Telegraphic Co., 42 B'way, New York
 Clark Wireless Telegraph Co. ("Clark"), Detroit, Mich.

Telephone Arms

Oliver Mfg. Co. ("Equipole"), 1016 Walnut, Phila., Pa.

Telephone Booths

(See Telephone Cabinet Work with the Word Booths Following Their Names)

Telephone Booths (Miniature Sound Proof)

Miniature Telephone Booth Co., 52 B'way, New York

Telephone Boxes

(See Telephone Cabinet Work with the Word Boxes Following Their Names)

Telephone Cabinet Work

American Veneer Co. (Boxes, Back Guards, etc.), Kenilworth, N. J.
 Ayers, J. W. Co. (Boxes, etc.), 325 S. Desplaines, Chicago, Ill.
 Bauerle & Stark Co. (Boxes, etc.), 224 W Ohio, Chicago, Ill.
 Bender Co. (Booths), Hamilton, O.
 Brownell, Chas. H. (Booths, etc.), Fern, Ind.
 Capitol Lumber Co. (Boxes, etc.), Indianapolis, Ind.
 Churchill Cabinet Co. (Boxes, etc.), 72 Church, Chicago, Ill.
 Fendelsen & Kropf Mfg. Co., 21st st & Rockwell, Chicago, Ill.
 Fisher Stevens Co. (Booths, etc.), Charles City, Iowa
 Folding Cabinet Co. ("Altick" Booths, etc.), Lancaster, Pa.
 Heyden, F. (Boxes, etc.), 306 S Clinton, Chicago, Ill.
 Household Cabinet Works (Boxes, Booths, Back Boards, etc.), Providence, R. I.
 Interstate Electric Mfg. Co., Sioux City, Ia.
 Jordan, Edw. B. & Co. (Boxes, etc.), 129 Degraw, Brooklyn, N. Y.
 Miniature Telephone Booth Co. (Miniature Booths), 52 B'way, New York
 Noblett, E. J. Co. (Boxes, etc.), Peoria & 121st, Chicago, Ill.
 Palen's, H. W. Sons (Fine Cabinet Finish), Kingston, N. Y.
 Plymouth Novelty Mfg. Co. (Boxes, etc.), Plymouth, Ind.
 Seaman, W. S. & Co. (Booths & Supplies), Milwaukee, Wis.
 Sewing Machine Cabinet Co. (On Order), Bridgeport, Conn.
 Shies, Wm. & Son (Boxes, etc.), Huntingburg, Ind.
 Tollner's, Chas. Sons Co. (Cases, etc.), Pultaski, N. Y.
 Union Hardware Co. (Boxes, etc.), Torrington, Conn.
 Wabash Cabinet Co. (Boxes, etc.), Wabash, Ind.
 Western Electric Co. (Booths, etc.), 250 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wilhelm Telephone Co. (Boxes, etc.), Buffalo, N. Y.
 Wisconsin Chair Co. (Boxes, etc.), Port Washington, Wis.
 Yesbera Mfg. Co. (Inc.) (Booths, etc.), Toledo, Ohio

*Telephone Cleats & Staples

AMERICAN VULCANIZED FIBRE Co. (Fibre), Wilmington, Del. (See adv. index, end of book)
DELAWARE HARD FIBRE CO. (Fibre), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)

DIAMOND STATE FIBRE CO.,
(Fibre), Elsmere, Del. (See adv. index,
end of book)

MORRIS ELECTRIC CO., Wilming-
ton, Del.

WILMINGTON FIBRE SPECIALTY
Co., Wilmington, Del. (See adv. index,
end of book)

Telephone Cushions (Pneumatic)

Huron Rubber Co., Cleveland, O.

*Telephone Desk Stands

KEIM, JNO. R. MILLS (Inc.), Buffalo,
N. Y. (See adv. index, end of book)

Telephone Holders

(See Brackets, Desk Telephone)

Telephone Knobs

Scranton Button Co. (Electroid), Scranton, Pa.

Telephone Magnet Cores

Federal Mfg. Co., American Trust bldg., Cleve-
land, O.

Telephone Meters or Registers

American Electric Telephone Co. ("National"),
64th & State, Chicago, Ill.

Baird Mfg. Co., 1592 N Halsted, Chicago, Ill.

Dean Electric Co., Elyria, O.

Gray Telephone Pay Station Co., Hartford,
Conn.

Pearce, W. H. & Co. ("Crescent"), 269 Dear-
born, Chicago, Ill.

Turner Brass Works ("Telometer"), Sycamore,
Ill.

Telephone Mouthpieces

(Rubber, Composition & Hard Fibre; see also
Porcelain Specialties, Electrical, Etc.)

American Hard Rubber Co., 9 Mercer, New
York

Auburn Button Works, Auburn, N. Y.

Dickinson Mfg. Co., Springfield, Mass.

Electrose Mfg. Co. (Transmitters, etc.), 127
N 10th, Brooklyn, N. Y.

General Insulate & Machine Co. ("Seamless"),
1008 Atlantic ave., Brooklyn, N. Y.

Gibson Mfg. Co., Danbury, Conn.

Rauscher, John, 98 W 3d, St. Paul, Minn.

Scranton Button Co. (Electroid), Scranton, Pa.

Siemon Hard Rubber Corp., Bridgeport, Conn.

Stokes, Jos. Rubber Co., Trenton, N. J.

Vulcanized Rubber Co., 488 B'way, New York

Western Electric Co., 259 S Clinton, Chicago,
Ill., & 57 Bethune, New York

Telephone Parts

Buescher Band Instrument Co., Elkhart, Ind.

Sumter Telephone Mfg. Co., Sumter, S. C.

Tucker, Frank S. & Co., 1 Hartford, Boston,
Mass.

WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of
book)

Telephone Pins

Gurthie Tuck Mfg. Co., Homer City, Pa.

Telephone Pole Changer

Current Electric Co. ("Standard"), Butler
bldg., Chicago, Ill.

Holtzer-Cabot Electric Co. (Rotary), Brookline,
Mass.

Sandwich Pole Changer Co. ("Illinois" "Sand-
wich"), Sandwich, Ill.

Warner Electric Co. (For Ringing Telephones),
Muncie, Ind.

Telephone Poles

(See Poles, Various Kinds; also Ties, Poles
& Posts)

Telephone Protectors

American Electric Fuse Co. ("American"),
Muskegon, Mich.

Central Telephone & Electric Co., 2135 Lu-
cas av., St. Louis, Mo.

Cook, F. B. ("Cook"), 238 W Lake, Chicago,
Ill.

D & W FUSE CO., Providence, R. I.
(See adv. index, end of book)

Harvard Electric Co., 60 W Van Buren, Chi-
cago, Ill.

Keystone Electric Telephone Co., 822 5th av.,
Pittsburg, Pa.

Sumter Telephone Mfg. Co., Sumter, S. C.

Telephone Receiver Shells

American Enamel Co., Providence, R. I.

American Hard Rubber Co., 9 Mercer, New
York

Auburn Button Works, Auburn, N. Y.

Dickinson Mfg. Co., Springfield, Mass.

Electrose Mfg. Co., 127 N 10th, Brooklyn, N. Y.

General Insulate & Machine Co., 1008 Atlantic
av., Brooklyn, N. Y.

Gibson Mfg. Co., Danbury, Conn.

Scranton Button Co. (Electroid), Scranton, Pa.

Siemon Hard Rubber Corp., Bridgeport, Conn.

Stokes, Jos. Rubber Co., Trenton, N. J.

Vulcanized Rubber Co., 488 B'way, New York

Wilkie Rubber Mfg. Co., Saugus, Mass.

Telephone Receivers

American Hard Rubber Co., 9 Mercer, New
York

Central Telephone & Elec. Co., St. Louis, Mo.

Chicago Electric Mfg. Co., 60 W Van Buren,
Chicago, Ill.

Dean Electric Co., Elyria, O.

Dickinson Mfg. Co., Springfield, Mass.

Electric Goods Mfg. Co., Boston, Mass.

Ericsson, L. M. Telephone Mfg. Co., Buffalo,
N. Y.

Farr Telephone Construction Supply Co., 118
W Jackson boul., Chicago, Ill.

Holtzer-Cabot Electric Co., Brookline, Mass.

International Telephone Co., 111 W Harrison,
Chicago, Ill.

Kellogg Switchboard & Supply Co., W Con-
gress & Green, Chicago, Ill.

Murdock, W. J. Co., Chelsea, Mass.

Novelty Electric Co., 50 N 4th, Phila., Pa.

Peirce Specialty Co., Elkhart, Ind.

Sumter Telephone Mfg. Co., Sumter, S. C.

Utica Fire Alarm Telegraph Co., Utica, N. Y.

Western Electric Co. (Hand & Head), 259 S
Clinton, Chicago, Ill., & 57 Bethune, New
York

Western Telephone Mfg. Co., 50 W Jackson
boul., Chicago, Ill.

Telephone Relay Shells

Cassady-Fairbank Mfg. Co., 6106 La Salle,
Chicago, Ill.

Telephone Ringing Apparatus

North Electric Co. (Harmonic Ringers), 408 St.
Clair av., N W, Cleveland, O.

Roth Bros. & Co., Loomis & Adams, Chicago,
Ill.

Vote-Berger Co. ("V-B," etc.), La Crosse,
Wis.

Warner Electric Co., Muncie, Ind.

Western Telephone Mfg. Co., 42 W Jackson
boul., Chicago, Ill.

Telephone Testing Sets

Holtzer-Cabot Electric Co. (Lineman's), Brook-
line, Mass.

Telephone Transmitter Arms

Baird Mfg. Co., 1592 N Halsted, Chicago, Ill.

Barr, W. J. Elec. Mfg. Co., Cleveland, O.

Ericsson, L. M. Telephone Mfg. Co., Buffalo,
N. Y.

Green Tel. & Electric Mfg. Co., Milwaukee,
Wis.

Holtzer-Cabot Electric Co., Brookline, Mass.

International Telephone Mfg. Co., c Clinton,
& Harrison, Chicago, Ill.

McDowell Mfg. Co., Pittsburg, Pa.

Telephone Transmitters

Andrae, Julius & Sons Co., 225 W Water, Mil-
waukee, Wis.

Connecticut Telephone & Electric Co. (Inc.),
Meriden, Conn.

Gail-Webb Mfg. Co. ("Gail-Duplex"), Buffalo,
N. Y.

Kellogg Switchboard & Supply Co., 251 S Green,
Chicago, Ill.

Moore's Telephone System, Caro, Mich.

North Electric Co., 408 St. Clair av., N. W.,
Cleveland, Ohio

Stromberg-Carlson Tel. Mfg. Co. ("Warrell"),
Rochester, N. Y.

Sumter Telephone Mfg. Co., Sumter, S. C.

Vote-Berger Co., La Crosse, Wis.

Western Telephone Mfg. Co. (For Switch-
boards, etc.), 42 W Jackson houl., Chi-
cago, Ill.

Williams Telephone & Supply Co., Cleveland,
Ohio

Telephone Woodwork

(See Telephone Cabinet Work; also Woodwork,
Electrical)

Telephone & Telegraph Protec- tive Apparatus

American Electric Fuse Co., Muskegon, Mich.

Telephones (Interior)

Acme Electric & Telephone Co., 71 W Jack-
son boul., Chicago, Ill.

Altman & Co., 69 Dearborn, Chicago, Ill.

American Watchman's Time Detector Co., 234
B'way, New York

Century Telephone Construction Co., Buffalo,
N. Y.

Chicago Electric Mfg. Co. (Automatic Inter-
communicating), 60 W Van Buren, Chicago,
Ill.

Corwin Telephone Co., 117 S Clinton, Chicago,
Ill.

Clark Automatic Telephone Switchboard Co.
(Automatic), Providence, R. I.

Connecticut Telephone & Electric Co. (Inc.),
Meriden, Conn.

Ericsson Telephone Co., 108 Duane, New York

Garl Electric Co., Akron, O.

Holtzer-Cabot Electric Co. (Also for Schools
& Apartment Houses), Brookline, Mass.

Direct Line Telephone Co. ("Direct Line"
Secret Service), 810 B'way, New York

Kelley Electric Co., 409 Elm, Cincinnati, O.

Keystone Electric Telephone Co., 822 5th av.,
Pittsburg, Pa.

Manhattan Electrical Supply Co., 17 Park pl.,
New York, & 188 5th av., Chicago, Ill.

New York Telephone Co., 18 Cortlandt, New
York

Partrick, Carter & Wilkins Co., 22nd cor
Wood, Phila., Pa.

Pettes & Randall Co., 150 Nassau, New York

Sumter Telephone Mfg. Co., Sumter, S. C.

United States Electric Protection & Construc-
tion Co. (Inc.) ("Bruckner"), 220 B'way,
New York

United States Electric Protection & Construction
Co. ("Bruckner"), 38 E 8th, New York

Vove-Berger Co., La Crosse, Wis.

Telephones (Mine)

Stromberg-Carlson Telephone Mfg. Co., Roch-
ester, N. Y.

Telephones (Pendant)

Vove-Berger Co., La Crosse, Wis.

Telephones & Apparatus

(See also Switchboards, Telephone)

Ackerman, Boland Tel. Co. (Inter-Communi-
cating), 166 S Clinton, Chicago, Ill.

Acme Telephone & Mfg. Co., Albia, Iowa

American Automatic Telephone Co., Urbana, O.

American Electric Telephone Co. ("Samson",
6-Bar Bridging), 64th & State, Chicago,
Ill.

American Machine Telephone Co., Piqua, O.

Andrae, Julius & Sons Co., Milwaukee, Wis.

Archer, G. F. (Celebrated Automatic, Inter-
Communicating), 39 Cortlandt, New York

Arnold, S. G. Mfg. Co., 254 W 62d, Chicago,
Ill.

Augusta, Bowen Mutual Telephone Co., Augus-
ta, Ill.

Augusta Mutual Telephone Co., Augusta, Ill.

Automatic Electric Co., 286 W Van Buren,
Chicago, Ill.

B. B. Electric & Tel. Mfg. Co., Kansas City,
Mo.

Bainbridge Electric Co., 267 7th, Phila., Pa.

Baird Mfg. Co. ("Norstrom"), 1592 N Hal-
stead, Chicago, Ill.

BUNNELL, J. H. & CO., Park Pl. &
Church, New York. (See adv. index, end
of book)

Central Telephone & Electric Co., 2135 Lucas
av., St. Louis, Mo.

Century Telephone Construction Co., Buffalo,
N. Y.

Chicago Electric Mfg. Co., 60 W Van Buren,
Chicago, Ill.

Chicago Telephone Supply Co., Elkhart, Ind.
Chicago Writing Machine Co., Galesburg, Ill.
Churcher Elec. & Mfg. Co., Cincinnati, O.
Clark Automatic Telephone Switchboard Co.,
Providence, R. I.
Columbia Electric Co., Knightsdown, Ind.
Commercial Electrical Supply Co., Pine,
15th, St. Louis, Mo.
Connecticut Telephone & Electric Co. (Inc.),
(Interior & Long Distance), Meriden, Conn.
Corwin Telephone Mfg. Co., 143 S Clinton,
Chicago, Ill.
Couch, S. H. Co., 156 Purchase, Boston, Mass.
Couch & Seeley Co., 10 Thacher, Boston, Mass.
Country Home Telephone Mfg. Co., 215 S Clinton,
Chicago, Ill.

Cracraft-Lelch Electric Co., Genoa, Ill.
Dean Electric Co., Elyria, O.
De Veau Telephone Mfg. Co. ("De Veau," Automatic Switchless), 32 Park pl, New York
Direct Line Telephone Co., 810 B'way, New York
Electric Goods Mfg. Co., 115 Purchase, Boston, Mass.
Elliott Telephone Co., Indianapolis, Ind.
Ericsson L. M. Telephone Mfg. Co., Buffalo, N. Y.

Ericsson Telephone Co., 108 Duane, New York
Farr Telephone & Construction Supply Co., 118 W Jackson boul, Chicago, Ill.
Garl Electric Co. (Intercommunicating Long Distance Desk, Hotel, Factory & Store, Portable Street Railway, etc.), Akron, O.
Garrett, Miller & Co., Wilmington, Del.
Green Telephone & Elec. Mfg. Co., Milwaukee, Wis.

Hepburn Telephone Mfg. Co., 65 Plymouth pl, Chicago, Ill.

Hogrehe, Edwin C. & Co., Cincinnati, O.
Holtzer-Cabot Electric Co., Brookline, Mass.
Independent Telephone Mfg. Co., Madison, Wis.
Interstate Elec. Mfg. Co., Sioux City, Iowa
Inland Electric Co., St. Louis, Mo.
Kellogg Switchboard & Supply Co., Green & Congress, Chicago, Ill.

Kusel Telephone & Elec. Mfg. Co., St. Louis, Mo.

Long Distance Telephone Mfg. Co., South Bend, Ind.

McWade, Wm. J., 101 Clinton, Chicago, Ill.
Manhattan Electrical Supply Co., 17 Park pl, New York, & 188 5th av, Chicago, Ill.
Menominee Elec. & Mfg. Co., Menominee, Mich.
Milwaukee Telephone & Mfg. Co., Milwaukee, Wis.

Minnesota Electric Co., Minneapolis, Minn.
Modern Electric Co., Burlington, Iowa
Monarch Telephone Mfg. Co., 270 Washington boul, Chicago, Ill.

North Electric Co., Cleveland, O.
Oliver Mfg. Co., 1020 Walnut, Phila., Pa.
Radio Telephone Co., 49 Exchange pl, New York

Reliance Telephone & Mfg. Co., Butler, Pa.
Rhode Island Telephone & Electric Co., Providence, R. I.

Richmond Co., Oshkosh, Wis.
Russell Electric Co., Danbury, Conn.
Sandwich Electric Co. (Straight Line Telephones), Sandwich, Ill.

Signalphone Co., Milwaukee, Wis.
Simplex Interior Telephone Co., Cincinnati, O.
Spencer Electrical Co., 163 Greenwich, New York
Standard Mfg. Co. ("Crown"), Bridgeport, Conn.

Sterling Electric Co., Lafayette, Ind.
Stromberg-Carlson Telephone Mfg. Co. (& Construction Material), Rochester, N. Y., & 72 W Jackson boul, Chicago, Ill.

Sumter Telephone Mfg. Co., Sumter, S. C.
Swedish-American Telephone Co., 1760 E Ravenswood Park, Chicago, Ill.

Utica Fire Alarm Telegraph Co., Utica, N. Y.
Viaduct Co., Relay, Md.
Vote-Berger Co., La Crosse, Wis.

Western Telephone Mfg. Co., 185 W Jackson honl, Chicago, Ill.
Wilhelm Telephone Mfg. Co., Buffalo, N. Y.

Wire & Telephone Co. of America, Rome, N.Y.

Telescopes

(See also Binoculars, Telescopes & Marine Glasses)

Allen, R. L., Providence, R. I.
Bausch & Lomb Optical Co. (Rifle), Rochester, N. Y.
Bausch, Lomb & Slagmuller Co., Rochester, N. Y.
Clark, Alvin & Son (Astronomical), Cambridge, Mass.
Cummings, Lawson C. (Rifle), Montpelier, Vt.

Goerz, C. P. Optical Works, 52 Union Sq, New York

Gundlach Manhattan Optical Co., Rochester, N. Y.

Leeds & Northrup Co. (Reading), 4901 Stenton av, Gtm., Phila., Pa.

Malcom Rifle Telescope Co. (Rifle), Auburn, N. Y.

Modern Telescope Bag Co., Portland, Ore.

Spencer Optical Co., 31 Maiden lane, New York

Stevens, J. Arms & Tool Co. (Rifle), Chicopee Falls, Mass.

Warner & Swasey Co. (Binoculars, etc.), Cleveland, O.

Telescopes (Reading)

Leeds & Northrup Co., 4901 Stenton av, Gtm., Phila., Pa.

Telpherage (Electric Conveying)

Dodge, J. M. Co., Nictown, Phila., Pa.
United Telpherage Co., 20 Broad, New York

Tempering to Order

Barnes, Wallace Co., Bristol, Conn.
FISCHER, CHAS. SPRING CO., 89-90 Walker, New York. (See adv. index, end of book)

Ten Pins

Estes, E. B. & Sons, 74 Warren, New York
Hawes-Laanna Co., Towanda, Pa.
Hellenberg & Son, Coldwater, Mich.
McMillan's, W. H. Sons, 153 South, New York

Tennis Racquet Handle Covers

Goodrich, B. F. Co., Akron, O.

Tennis Racquet Mfrs.

Bancroft, Fred'k J., Pawtucket, R. I.
Bridgeport Athletic Mfg. Co., 18 W. 30th, New York
Horsman, E. I. Co., 365 B'way, New York
Slazenger, F. L., S W 28th, New York
Spalding, A. G. & Bros., 126 Nassau, New York
Wright & Ditson, Boston, Mass.

Tents for Railroad Contractors

ARKANSAS.

FORT SMITH—Tucker Duck & Rubber Co.
LITTLE ROCK—Little Rock Tent & Awning Co.

COLORADO.

DENVER—Colorado Tent & Awning Co.
Denver Tent & Awning Co.

ILLINOIS.

CHICAGO—CARPENTER, GEO. B. & Co., 202 S Water. (See adv. index, end of book)
Channon, H. Co., 32 Market
Cook, E. C. & Bro., 49 E Kinzie
Delta Mfg. Co., 30 S Canal
Lieb, P. & Co., 19 W Randolph
Murray Co., 61 W Wash'n
Murray Tent & Awning Co., 7 S Union
U. S. Tent & Awning Co., Randolph & Des-plaines
ELGIN—Zeigler Bros.
PEORIA—Peoria Tent & Awning Co., 119 Main

INDIANA.

INDIANAPOLIS—Indianapolis Tent & Awning Co.

IOWA.

SIoux CITY—McNeil, H. OC. & Son

MINNESOTA.

MINNEAPOLIS—American Tent and Awning Co.

KANSAS CITY—Baker & Lockwood Mfg. Co.
Carnie-Goudie Mfg. Co.

Kansas City Tent & Awning Co.
ST. LOUIS—American Tent & Awning Co.

Babltste Tent & Awning Co., 612 N 3d
Dougherty Bros. Tent & Awning Co., 218 Market

Globe Tent & Awning Co., 19 S 10th
Missouri Tent & Awning Co., Chestnut & 2d

Morrison Tent & Awning Co., 115 Olive

Mound City Duck & Rubber Co., 616 N 3d
Sanders Duck & Rubber Co., 805 Wash'n av
Wenzel, Herman, Main cor Elm
Zittlosen Mfg. Co., 310 Elm

NEW YORK.

NEW YORK—Bauman, Chas. R., 86 South
Harrison, John (Est. of), 170 South
Harwood & Son (Also Export), 175 W Bway
Hopkins, Jno. C. & Co., 119 Chambers
McHugh, John F., 106 W 37th
Magee, M. & Son, 147 Fulton
Martin, Thomas, 326 Canal
Rehm & Co., 141 Fulton
Skelton, Frederick, 681 6th av

OHIO.

COLUMBUS—Columbus Awning & Tent Co.
McAuley, J. A. Tent & Awning Company
Sellars Tent & Awning Co., State & Centre sts

OREGON.

PORTLAND—Ames & Harris
Portland Tent & Awning Co.

TENNESSEE.

MEMPHIS—Bluff City Tent & Awning Co., 315 Lee Bros.
Memphis Tent & Awning Co., 200 Main
Owens Tent Co., 276 Front

Terazzo Flooring

(See also Mosaics of Various Kinds)

BATTERSON & EISELE, Main Office
& Works, Edgewater, N. J., & Times bldg, 42d, New York. (See adv. index, end of book)

Cascio, S., 797-803 Lexington av, Brooklyn, N.Y.

CURRIER, E. BRADLEY CO., 119 W. 23d, & 114 W. 24th, New York. (See adv. index, end of book)

Davis Marble Co., 214 S. 24th, Phila., Pa.

Empire City Marble Co., 90 West, New York

Federal Tile Co., 131 W. 24th, New York

Italian Marble Mosaic Co., 431 Spruce, Phila., Pa.

Mion Bros., Atlanta, Ga.

McLaury, D. H. Marble Co., Walnut av, n 141st, New York

Marcus Bros. Co., Memphis, Tenn.

Murdock-Shaw Co., Boston, Mass.

Schoone Mosaic Co., 234 E 6th, Cincinnati, O.

Shipway, John H. & Bro., Locust av & 136th, New York

White Marble & Terazzo Co., Lee, Mass.

Terazzo (Wholesale)

Jackson, C. D., 105th & E. R., New York
Roussel, Chas. J., 524 W 50th, New York

Terminals (Fuse)

(See Terminals, Telephone Cable)

Terminals (Service)

Phila. Electrical & Mfg. Co., 1234 N 31st, Phila., Pa.

Terminals (Sparking Plug)

MORSE, FRANK W. ("Morse Eureka"), 516 Atlantic av, Boston, Mass. (See adv. index, end of book)

Terminals (Telephone Cable)

American Electric Fuse Co. ("American"), Muskegon, Mich.

American Electric Telephone Co., 64th & State, Chicago, Ill.

Bissell, F. Co. ("Security"), Toledo, O.

Central Tel. & Electric Co., St. Louis, Mo.

Cook, Frank B. (All Metal), 239 W Lake, Chicago, Ill.

Harvard Electric Co., Chicago, Ill.

International Telephone Mfg. Co., 111 W Harrison, Chicago, Ill.

Moon Mfg. Co., 49 S Canal, Chicago, Ill.

Mountain State Electrical Co. ("Hall"), Wheeling, W Va.

Protective Electrical Supply Co., Fort Wayne, Ind.

Sterling Electric Co., Lafayette, Ind.

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Terminals (Wire)

Bliss-Chester Co. (Duplex), 31 Mathewson, Providence, R. I.
 Briggs, W. H., 424 Bedford av., Brooklyn, N. Y.
 Herz & Co., 295 Lafayette, New York
 Mosler, A. R. & Co., 1679 B'way, New York
 Never-Miss Spark Plug Co., Lansing, Mich.
 Noonan Tool & Machine Works, Rome, N. Y.
 Peerless Machine Co., Detroit, Mich.
 Pittsfield Spark Coil Co., Dalton, Mass.
 Shain, Charles D., 70 Murray, New York
 Springlight Terminal Co., Lansing, Mich.

Terra-Alba

Hammill & Gillespie, 240 Front, New York
 Higginson Mfg. Co., Newburgh, N. Y.
 Keystone Plaster Co. (For Paint Mfrs.), Sales Office, Phila., Pa. Works, Chester, Pa.
 Kling, J. B. & Co., 1 B'way, New York
 Nevins, Sam'l Co., 109 S 2d, Phila., Pa.
 Salomon, L. A. & Bro., 213 Pearl, New York

Terra Cotta (Architectural)

American Terra Cotta & Ceramic Co., Chicago, Ill., & Terra Cotta, Ill.
 Atlanta Terra Cotta Co., Atlanta, Ga.
 Atlantic Terra Cotta Co., 1170 B'way, New York
 Brick Terra Cotta & Tile Co., Corning, N. Y.
 Carnegie Brick & Pottery Co., Montgomery blk., San Francisco, Cal.
CARTER, BLACK & AYERS (Inc.) (Mfrs.' Agts.), 1 Madison av., New York. (See adv. index, end of book)
CINCINNATI WALL TIE CO. (Mfrs.' Agents), 206 E 5th, Cincinnati, O. (See adv. index, end of book)
 Clark, N. & Sons, 17 Spear, San Francisco, Cal.
 Conkling-Armstrong Terra Cotta Co., 24 S 7th, Phila., Pa., & 1133 B'way, New York
 Denny-Renton Clay & Coal Co., Seattle, Wash.
FISKE & COMPANY (Inc.), 25 Arch, Boston, Mass., & Flatiron bldg., New York. (See adv. index, end of book)
 Gladding, McBean & Co., Crocker bldg., San Francisco, Cal. Works, Lincoln, Cal.
 Indianapolis Terra Cotta Co., Brightwood, Indianapolis, Ind.
 Ketcham, O. W. (Mfrs. Agt.), 24 S 8th, Philadelphia, Pa.
 Maryland Terra Cotta Co., Wicomico & Clare, Baltimore, Md.
NEW JERSEY TERRA COTTA CO., 108 Fulton, New York. (See adv. index & branch offices, end of book)
 New York Arch'l Terra Cotta Co., 225 5th av., New York, & Long Island City, N. Y.
 N. E. Terra Cotta Co., Bradford, Pa.
 Northern Clay Products Co., Auburn, Wash.
NORTHWESTERN TERRA COTTA CO., Main Office & Works, 1000 Clybourn av., Branch Office, 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)
 Orchard Knob Clay Works Co., Ironton, O.
SOUTH AMBOY TERRA COTTA CO., Spruce & Nassau, New York. Works, South Amboy, N. J. (See adv. index, end of book)
 Southern Terra Cotta Works, Atlanta, Ga.
 Standard Terra Cotta Works, 1170 B'way, New York
 Stelger Terra Cotta & Pottery Works, San Francisco, Cal.
THOMAS, E. H. (Mfrs.' Agent), 1123 B'way, New York
 Washington Brick, Lime & Mfg. Co., Spokane, Wash.
 White, Scott A. (Mfrs.' Agt., Northwestern), 811 Lewis blk., Pittsburg, Pa.
WINKLE TERRA COTTA CO., 502 Century bldg., St. Louis, Mo.; Works: Cheltenham, St. Louis, Mo. (See adv. index, end of book)

Terra Cotta (Architectural Enameled or Glazed)

Atlantic Terra Cotta Co., 1170 B'way, New York
FISKE & COMPANY (Inc.), 25 Arch, Boston, Mass., & Flat Iron Bldg., New York. (See adv. index, end of book)
 Gladding, McBean & Co., San Francisco, Cal. Works, Lincoln, Cal.
 Grady Falence Co., E 1st & K, Boston, Mass.
 Hartford Falence Co., Hartford, Conn.
NEW JERSEY TERRA COTTA CO., 108 Fulton, New York. (See adv. index & branch offices, end of book)

N. E. Terra Cotta Co., Bradford, Pa.
NORTHEASTERN TERRA COTTA CO., Bradford, Pa. (See adv. index, end of book)

NORTHWESTERN TERRA COTTA CO., Main Office & Works, 1000 Clybourn av., Branch Office, 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)
 Rochester Sewer Pipe Co., Rochester, N. Y.

SOUTH AMBOY TERRA COTTA CO., Spruce & Nassau, New York. Works, South Amboy, N. J. (See adv. index, end of book)

WINKLE TERRA COTTA CO., Century bldg., St. Louis, Mo.; Works: Cheltenham, St. Louis, Mo. (See adv. index, end of book)

Terra Cotta Hip Rolls

(See Roofing Tile, Terra Cotta)

Terra Cotta Lumber

(See Fire Proof Hollow Tile; also Fire Proofing, Porous Brick & Tile)

*Terra Cotta (Polychrome & Faience)

ATLANTIC TERRA COTTA CO., 1170 B'way, New York. Factories: Tottenville, S. I., N. Y.; Perth Amboy, N. J., & Rocky Hill, N. J. (See adv. index & branch offices, end of book)

FISKE & COMPANY (Inc.), 25 Arch, Devonshire, Boston, Mass., & Flatiron bldg., New York. (See adv. index, end of book)

NEW JERSEY TERRA COTTA CO., 108 Fulton, New York. (See adv. index & branch offices, end of book)

NORTHWESTERN TERRA COTTA CO., Main Office & Works, 1000 Clybourn av., & branch office, 1415 Railway Exchange, Chicago, Ill. (See adv. index, end of book)

SOUTH AMBOY TERRA COTTA CO., Spruce & Nassau, New York. Works, South Amboy, N. J. (See adv. index, end of book)

WINKLE TERRA COTTA CO., Century bldg., St. Louis, Mo.; Works: Cheltenham, St. Louis, Mo. (See adv. index, end of book)

Terraflor

Southern Fullers Earth Co. (Bleaching Clay for Oils, Petroleum, etc.), Warren, Pa.

Terrazzo

(See Terrazzo Flooring, Etc.)

Testers (Battery)

Roberts Instrument Co. ("Robert" Pocket), Detroit, Mich.

Testers (Cable)

Leeds & Northrup Co., 4901 Stenton av., Gtn., Phila., Pa.

*Testers (Center)

STARRETT, L. S. CO., Athol, Mass. (See adv. index & branch offices, end of book)

Testers (Coffee)

Stortz, John & Son, 210 Vine, Phila., Pa.

Testers (Creamery)

Burrell, D. H. & Co. ("Facile" & "Babcock"), Little Falls, N. Y.
 Creamery Package Mfg. Co. ("Wizard"), 182 E Kenzie, Chicago, Ill.
 Dairy Specialty Co. ("Babcock"), Westchester, Pa.
 Edson, Wyman L., Union Center, N. Y.
 Fargo Creamery Supply House ("Victor & Ideal Babcock"), Lake Mills, Wis.
 Jones, Frank L., Utica, N. Y.
 Polar Creamery Co. ("Fowlers" Improved), Lafayette, Ind.
 Sharpless Separator Co. (Russian Standard & "No-tin," "Babcock"), West Chester, Pa.
 Vermont Farm Machine Co. ("Agos," "Babcock"), Bellows Falls, Vt.
 Zero Creamery Co., Peru, Ind.

Testers (Flax Seed and Cotton Seed)

Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.

*Testers (Fruit Can)

BLISS, E. W. CO., 19 Adams, Brooklyn, N. Y. (See adv. index, end of book)

Testers (Grain)

Buffalo Scale Co., Buffalo, N. Y.
 Caldwell, H. W. & Son Co. ("Caldwell"), 17th & Western av., Chicago, Ill.
 Chicago Scale Co., Chicago, Ill.
 Fairbanks Co., 186 Lafayette, New York
 Howe Scale Co., Rutland, Vt.

Testers (Ham)

(See Tryers, Ham)

Testers (Mine Gas)

Quimby Engineering Co., 913 Ridge av., Phila., Pa.

Testers (Paper)

Illinois Iron & Bolt Co. ("Southworth" Hydrostatic), Carpentersville, Ill.
 Olsen, Tinius & Co., 500 N 12th, Philadelphia, Pa.
 Perkins, B. F. & Son ("Mullen"), Holyoke, Mass.

Testers (Syrup)

NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
 Schaeffer & Boudenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

*Testing Apparatus (Ventilator)

QUEEN & CO. (Inc.), N. W. c. 8th & Arch, Phila., Pa. (See adv. index, end of book)

*Testing Instruments & Meters (Electrical)

BRISTOL CO. ("Bristol's" Recording), Waterbury, Conn. (See adv. index & branch offices, end of book)
QUEEN & CO. (Inc.), N. W. c. 8th & Arch, Phila., Pa. (See adv. index, end of book)

Testing Sets (Electrical)

Leeds & Northrup Co., 4901 Stenton av., Gtn., Phila., Pa.

Testing Laboratories

(See Laboratories, Testing)

Testing Machine Mfrs.

(For All Testing Machines See Index of Contents)

Tetrachloride of Tin

Bower, Henry Chemical Mfg. Co., 29th & Gray's Ferry rd., Philadelphia, Pa.

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IMPORTANT



When consulting any trade in this publication always note information printed directly under the classification. It will frequently assist in locating firms and their products. Much information also will be frequently found following firms names, including in many cases the trade names of product. When an article cannot be located, write us giving full particulars as possible.

S. E. HENDRICKS CO.,
74 LAFAYETTE STREET,
NEW YORK, N. Y.

Textile Machinery, Supplies, Etc.

NOTE.—For various kinds of Textile Machinery, Textile Mill Supplies, etc., see sub-classifications of this head, following in regular alphabetical order. If you fail to find any particular article you are looking for classified here, consult the Index of Contents. If not then successful in locating it, drop us a line, describing article required, and we will, free of charge, use our best efforts to look it up for you.

Aprons (Endless)

Barlow, Jno. W. Co., Lawrence, Mass.
BOSTON BELTING CO., 260 Devon-
 shire, Boston, Mass. (See adv. Index, end of book)
 Gutta Percha & Rubber Mfg. Co., 126 Duane, New York
 Harwood, Geo. S. & Son, 53 State, Boston, Mass.
 N. J. Car Spring & Rubber Co., Jersey City, N. J.

Aprons (Leather)

(For page number consult Index of Contents)

Apron Leather (Raw Hide)

Coupe, Wm. & Co. ("Excelsior"), S Attleboro, Mass.

Apron Leather (Worsted)

Brown Bros. Co., Providence, R. I.
 Coupe, Wm. & Co. ("Excelsior"), S Attleboro, Mass.
 Schieren, Chas. A. & Co., 30 Ferry, New York

Aprons (Loom)

Folsom, Fred W. & Co., 2 Planet, Providence, R. I.
 Pease, L. F. Co., 7 Crawford, Providence, R. I.

Aprons (Worsted Combing)

Americau Multiple Fabric Co., Providence, R. I.
 Barlow, Jno. W. Co., Lawrence, Mass.
 Barnes, Henry K., 104 Franklin, Boston, Mass.
 Coupe, Wm. & Co. ("Excelsior"), S Attleboro, Mass.
 Eddy & Street, Providence, R. I.
 Harwood, Geo. S. & Son, 53 State, Boston, Mass.
HUDSON BELTING CO. (Sheepskin), 3
 Eaton pl., Worcester, Mass. (See adv. Index, end of book)
 Parr, Wm. Lowell, Mass.
 Pechin, Jno. W., 31 S 3d, Philadelphia, Pa.

Bale Breakers

Firth, Wm. Co. ("Asa Lees & Co., Ltd."), 79 Milk, Boston, Mass.
 Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.

Baling Presses

(See Presses)

Balling Machines

Curtis & Marble Machine Co., Worcester, Mass.
 Draper Co., Hopedale, Mass.
 Entwistle, T. C. Co., Lowell, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Smith, Jas. Woolen Machinery Co., Philadelphia, Pa.
 Smith & Furbush Machine Co. ("Furbush"), Philadelphia, Pa.
 Torrance Mfg. Co., 18 Davis, East Newark, N. J.

Ball Winding Machines

Franklin Machine Co., Providence, R. I.

Band Folding & Cutting Machines

Kennedy, Thos., Cohoes, N. Y.

Banding

(See Braided Banding)

Banding Machines

Cole Bros. (Improved Inman Automatic Loop) Pawtucket, R. I.
 Draper Co. ("Weeks"), Hopedale, Mass.
 Whittle, James H., Worcester, Mass.
 Whittle, James H., Worcester, Mass.

Bands (Hosiery)

(See Hosiery Bands)

Baskets (Mill)

(See Index of Contents)

Beamers

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
 Atwood-Morrison Co., Stonington, Conn.
 Butterworth, H. W. & Sons Co., 2415 E York
 Cole Bros., Pawtucket, R. I., Phila., Pa.
 Entwistle, T. C. Co., Lowell, Mass.
 Globe Machine & Fdry. Co., Fkd., Phila., Pa.
 Hughes & Itussum, Frankford, Philadelphia, Pa.
 Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
 Smith, Jas. Woolen Mach. Co., 411 Race, Phila., Pa.
 Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
 Whittle, James H. (Single or Double), Worcester, Mass.

Beaming Rathes

Allen, A. W., 2427 Mascher, Phila., Pa.
 Walker Mfg. Co., 191 Berks, Phila., Pa.

Belt Dressing

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Belt Hole Guards

Draper Co., Hopedale, Mass.

Belting

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Blackening Machinery

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Collyer Mach. Co., Pawtucket, R. I.
 Eltson Machine Co., Lowell, Mass.

Bleachers (Knit Goods)

Rowland, Sam'l, Schuylkill Haven, Pa.

Bleaching Machinery

American Drying Machine Co., 3301 N. 19th, Phila., Pa.
 Arlington Machine Works, Arlington Heights, Ill.
 Birch Bros., Souwerville, Mass.
 Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
 Empire Laundry Machinery Co., Boston, Mass.
 Holyoke Machine Co., Holyoke, Mass.
 Hopkins Machine Works (Inc.) (Peroxide), Bridgeton, R. I.
 Hunt, Rodney, Machine Co., Orange, Mass.
 Klander-Weldon Dyeing Machine Co., Amsterdam, N. Y.
 Klein, Chas. C., 2850 N Marshall, Phila., Pa.
 Philadelphia Drying Machinery Co., 6721 Grd av, Phila., Pa.
 Smith, Drum & Co., 2503 Coral, Phila., Pa.
 Taylor & Fenn Co., 54 Arch, Hartford, Conn.
 Textile Finishing Machinery Co., Providence, R. I.
 Watson Machine Co., Paterson, N. J.
 Winsor & Jerard Mfg. Co., Providence, R. I.
 Worcester Steam Boiler Works ("Klers"), Worcester, Mass.
 Yarnan Co., 41 Park row, New York

Blowers

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Bluing Machines

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Textile Finishing Machinery Co., Providence, R. I.

Bobbin Holders

Draper Co. ("Lawrence," "Rhoades"), Hopedale, Mass.
 Roney & Rae Co. ("Little Giant"), Woonsocket, R. I.
 Murdock & Geb Co. ("Murdock" for Mules, Winders & Twisters), Franklin, Mass.

Bobbin Rings

Morgan Spring Co., Worcester, Mass.

Bobbin Winders

Altamus, Jacob K., 2816 N 4th Phila., Pa.
 Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
 Lever, Oswald, Lehigh av & Mascher, Phila., Pa.

R. I. Braiding Machine Co., Providence, R. I.
 Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
 Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
 Textile Machine Works, Reading, Pa.
 Tompkins Bros. Co., Troy, N. Y.
 Whittle, Jas. H., Worcester, Mass.

Bobbins

Allentown Bobbin Works (Steel), Allentown, Pa.
 American Supply Co., Providence, R. I.
 Arnold Bobbin Co., Dayville, Conn.
 Baker, Michael & Sons, Jonnsville, N. Y.
 Baldwin, Jas. Co., Manchester, N. H.
 Billington, Jos. H. & Co., 113 Chestnut, Phila., Pa.
 Blalser's Novelty Wks, Rome, N. Y.
 Bobbin & Spindle Works, Charleston, S. C.
 Brown Bros. Co., Providence, R. I.
 Chester Mfg. Co., Chester, Mass.
 Clark Bobbin Co., Wicheudou, Mass.
 Clover Leaf Mfg. Co., Carbondale, Pa.
 Coburn, Fred. S., 243 Main, Woonsocket, R. I.
 Courtney, D. S., Chicopee, Mass.
 Dudley, Sumner A., Taunton, Mass.
 Eatou, Hy. A., Littleton, N. H.
 Eatou, Isaac Co., Nashua, N. H.
 Excelsior Bobbin & Spool Co., Newtown, Pa.
 Fall River Bobbin & Shuttle Co., Fall River, Mass.
 Fall River Foundry & Machine Co., Fall River, Mass.
 Fletcher Mfg. Co., Providence, R. I.
 Gale, C. M., Loudoff, N. H.
 Georgia Spool & Bobbin Mfg. Co., Macon, Ga.
 Hall, I. A. & Co., Paterson, N. J.
 Hall & McCrillis, Groton, Vt.
 Hartford Machine Screw Co. (Sewing Machine), Hartford, Conn.
 Hartson, L. M. Co. (Iron, Fibre & Wood Heads), North Windham, Conn.
 Hebbard, Arthur (In Rough), Shelburne, N. H.
 Hoyle, Jos. Bobbin Co., Woonsocket, R. I.
 Lyndon Mfg. Co., Athens, Ga.
 McGuire, Jno. A., Clermont, N. H.
 Mallard Lumber & Construction Co., Greenville, S. C.
 Mawson Bros. (Sik), Newtown, Pa.
 Mawson Spool & Bobbin Co., Lestershire, N. Y.
 Moore, J. G., Lisbon, N. H.
 Murray, Chas. O., Nashua, N. H.
 Nashua Spool & Bobbin Co., Journal bldg, Boston, Mass.
 New England Shuttle Co., Lowell, Mass.
 Ohio Valley Putty Works, Maysville, Ky.
 Orleans Bobbin Co., Newport, Vt.
 Parker & Young Co., Lisbon, N. H.
 Parkinson, E. Co., Saxonsville, Mass.
 Payne, Geo. W. Co. (Hosiery Winder), Pawtucket, R. I.
 Potter Bros., South Scituate, R. I.
 Sherwood Bobbin & Mfg. Co., Greensboro, N. C.
 Southern Spool & Bobbin Co., Greensboro, N. C.
 Southern Shuttle & Bobbin Co., Westminster, S. C.
 Speed & Stephenson (Wilson & Co., Barnsley, Ltd.), 170 Summer, Boston, Mass.
 Sprague, L. Co., Lawrence, Mass.
 Sweet & Doyle, Cohoes, N. Y.
 Tibbetts, E. L. & Co., Locke's Mills, Me.
 U. S. Bobbin & Shuttle Co., Providence, R. I.
 Van Riper Mfg. Co., Paterson, N. J.
 Vermont Spool & Bobbin Co., Burlington, Vt.
 Weld Bobbin & Spool Co., 42 Island, Lawrence, Mass.
 Willbur, Benj., South Scituate, R. I.
 Williams, J. H. Co., Uteia, N. Y.
 Wisconsin Textile Mfg Co., Two Rivers, Wis.
 Woodstock Hardwood & Spool Mfg Co. (Heavy for Rope & Cordage, etc.), Charleston, S. C.

Box Shooks

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Boxes (Drawing & Roving)

Lowell Machine Shop, Lowell, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Speed & Stephenson, 170 Summer, Boston, Mass.

Boxes (Mill)

American Vulcanized Fibre Co. (Laminar Dept.), 1017 Market, Wilmington, Del.
 Diamond State Fibre Co., Elsmere, Del.
 Lowell Machine Shop, Lowell, Mass.
 Spaulding-Perkins Co., Rochester, N. H.

Boxes (Steam)

Textile Finishing Machinery Co., Providence, R. I.
 Watson Machine Co., Paterson, N. J.
 Worcester Steam Boiler Works, Worcester, Mass.

Braid Calendering Machines

Rhode Island Braiding Machine Co., Providence, R. I.

Braid Rolling Machines

Rhode Island Braiding Machine Co., Providence, R. I.

Braided Banding

(See also Cotton Bandings)

Buffalo Weaving & Belting Co., Buffalo, N. Y.
Covel & Oshorn Co., 139 Pleasant, Fall River, Mass.

Frost, Geo. T. & Sons, Paterson, N. J.
Hoffman-Corr Mfg. Co., 55 White, New York
Holden, Jas., Fall River, Mass.
Lambeth Rope Corporation, New Bedford, Mass.

Moore, C. & Co., 500 Market, Phila., Pa.
Small Bros., Fall River, Mass.
Speed & Stephenson ("Wm. Halghe's"), 170 Summer, Boston, Mass.
Toohey, M. J. & Co., Fall River, Mass.

Braiders (Packing)

Rhode Island Braiding Machine Co., Providence, R. I.

Braiding Machinery

New England Butt Co., Providence, R. I.
Rhode Island Braiding Mach. Co., Providence, R. I.
Textile Machine W'ks, Reading, Pa.

Breaking Machines (Hard Waste)

Curtis & Marble Machine Co., Worcester, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Breasts (Metallic)

Smith, James Woolen Machinery Co., Philadelphia, Pa.
Smith & Furbush Machine Co., Philadelphia, Pa.

Brushes (Mill)

Bradley & Smith, 251 Pearl, New York
Cincinnati Mfg. Co., 211 Walnut, Cincinnati, O.
Columbia Napper Clothing Co., Lawrence, Mass.
Edwards, Henry & Co., Lowell, Mass.
Felton, S. A. & Son Co., Manchester, N. H.
HEARTLEY MACHINE, VARIETY IRON & Tool Works (Mill Cloth Cleaning Brushes), Toledo, O. (See adv. index, end of book)
Jacobus, A. G., Verona, N. J.
Lahne, M. M. & Co., Lowell, Mass.
Leavens, Murphy & Co., 28 Exch, Boston, Mass.
Mason Brush Works, Worcester, Mass.
Nebes, David, 256 Lawrence, Lowell, Mass.
North Chelmsford Machine & Supply Co. (Comb & Machine), North Chelmsford, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Rhode Island Braiding Machine Co., Providence, R. I.
Rhode Island Brush Co., Providence, R. I.
Turner, J. S. Mfg. Co. (Comb & Machine), Lowell, Mass.
Voelker, Phillip L., 921 Westminster, Providence, R. I.
Wild, Joseph, Fall River, Mass.

Brushing Machines

(See Cloth Brushing Machines)

Burling Irons

American Supply Co., Providence, R. I.

Burr Blades

Ames, David J. & Co., Philmont, N. Y.
Cooper, Chas., Bennington, Vt.
Crane Mfg. Co., Lakeport, N. H.
Jarrard Needle Works, New Brunswick, N. J.
Tompkins Bros. Co., Troy, N. Y.

Burring Machines

Arthur Co., 188 Front, New York
Brown Cotton Gln Co., New London, Conn.
Curtis & Marble Machine Co., Worcester, Mass.
Hemmingway Machine Co., Lynn, Mass.
Gaubert Mfg. Co., 85 Liberty, New York
Lombard Machine Co. (Steel Ring), Worcester, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Proctor"), Philadelphia, Pa.

Buttonhole Machines

Champion Buttonhole Machine Co., 10 High, Boston, Mass.
Lufkin, John W., 38 Chardon, Boston, Mass.
National Machine Co., Mamaroneck, N. Y., & Troy, N. Y.
Reece Buttonhole Machine Co., Boston, Mass.
Singer Sewing Machine Co., 149 Broadway, New York
Standard Sewing Machine Co., Cleveland, O.

Calendering Machines

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Calico Printers' Machinery

Arlington Machine Works, Arlington Heights, Mass.
Butterworth, H. W. & Sons Co., Phila., Pa.
Frankford Machine Works, Frankford, Phila., Pa.
Taunton-New Bedford Copper Co., New Bedford, Mass.
Textile Finishing Machinery Co., Providence, R. I.
Waldren, Jno. Co., New Brunswick, N. J.
Watson Machine Co., Paterson, N. J.

Cans (Cotton)

New England Ventilating & Heating Co., Providence, R. I.

Cans (Drying)

New England Ventilating & Heating Co., Providence, R. I.
Whittle, Jas. H., Worcester, Mass.

Cans (Dye House)

Hill, James Mfg. Co., Providence, R. I.

Cans (Mill)

Clark, W. J. Co., Salem, O.
Durlach, I., 54 Vesey, New York
Iron Clad Mfg. Co., 22 Cliff, New York
N. E. Ventilating & Heating Co., Manton av, Providence, R. I.

Cans (Oil)

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Cans (Roving)

(See Roving Cans)

Carbonizers

American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
Bamford & Smith, Pascoag, R. I.
Blanding, C. L. Mfg. Co., Providence, R. I.
Hudson Fibre Co., Hndson, N. Y.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, Jas. Machine Co., N. Adams, Mass.
Lord, Bowler & Co., 33 Center, Cleveland, O.
Philadelphia Drying Machinery Co. ("Cyclone"), Phila., Pa.
Smith & Furbush Machine Co., Philadelphia, Pa.
Sargent's, C. G. Sons, Westford, Mass.
Textile Finishing Machinery Co., Providence, R. I.

Card Attachments

Klp-Armstrong Company (Electrical Warp Stop Motion), Pawtucket, R. I.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

Card Clothing

American Card Clothing Co., Worcester, Mass.
Ashworth Bros., Fall River, Mass.
Bagshaw, W. H. (Est. of), Lowell, Mass.
Beckwith Card Co., Stafford Springs, Conn.
Booth, Benj. & Co. (Ltd.), 1717 N Bodline, Philadelphia, Pa.
Bowes, L. M. Co. (Imported), 451 Atlantic av, Boston, Mass.
Crabb, Wm. & Co., Newark, N. J.
English, C. R. Co., 301 Congress, Boston, Mass.
Firth, Wm. Co. (Yates & Sons & Sykes Bros.), 79 Milk, Boston, Mass.
Howard Bros. Mfg. Co., 42 Vine, Worcester, Mass.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Leicester Card Clothing Co., Leicester, Mass.
Lelgh, Evan Arthur (Joseph Sykes Bros.) & Critchley's, 232 Summer, Boston, Mass.
Lombard Machine Co., Worcester, Mass.

McKerrow, H. G. & Co., 31 State, Boston, Mass.
Riley, C. E. & Co. (Jno. Whitley & Sons & L. M. Tetlow & Sons), 65 Franklin, Boston, Mass.
Southern Card Clothing & Reed Co., Charlotte, N. C.
Speed & Stephenson ("S. Halley & Sons," Ltd.), 170 Summer, Boston, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Stott, S. E. & T., Lowell, Mass.
Street, R. R. & Co., 186 Washington, Chicago, Ill.
Sykes, Jos. Bros., Charlotte, N. C.

Card Cutting Machines

Mason Machine Works, Taunton, Mass.
Royle, John & Sons (Jacquard), Paterson, N. J.
Whittle, Jas. H., Worcester, Mass.

Card Grinder Wheels

Stillman-Randall Machine Co., Westerly, R. I.

Card Grinding Machines

Barker, James, 6th cor Cayuga, Philadelphia, Pa.
Entwistle, T. C. Co., Lowell, Mass.
Firth, Wm. Co. (Dronsfield), 179 Milk, Boston, Mass.
Lombard Machine Co., Worcester, Mass.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Riley, C. E. & Co. (Mfrs.' Agts.), 65 Franklin, Boston, Mass.
Roy, B. S., Worcester, Mass.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

Card Middles

MacSim Bar Paper Co., Otsego, Mich.
Otsego Coated Paper Co., Otsego, Mich.

Card Repeaters (Jacquard)

Halton's, Thos. Sons, Allegheny av & C, Philadelphia, Pa.
Royle, John & Sons (French Index & Fine Scale Repeaters), Paterson, N. J.
Schaum & Uhlinger, North Penn Junc., Philadelphia, Pa.

Card Stitching Machines (Jacquard)

Singer Sewing Machine Co., 149 B'way, New York

Card Stretchers

Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

Carders' Tools

Brown, W. H., Worcester, Mass.
Roy, B. S., Worcester, Mass.

Cards (Cotton)

Billington, Jas. & Co., 113 Chestnut, Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Franklin Machine Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Pevey Bros., Lowell, Mass.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Whitin Mach. Works, Whitinsville, Mass.

Cards (Felt)

Whittle, Jas. H., Worcester, Mass.

Cards (Foss & Pevey)

Fall River Foundry & Machine Co., Fall River, Mass.
Pevey Bros., Lowell, Mass.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.

Cards (Hand)

Beckwith Card Co. (Stripping), Stafford Springs, Conn.
Columbia Napper Clothing Co., Lawrence, Mass.
Howard Bros. Mfg. Co. (Stripping) 42 Vine, Worcester, Mass.
Smith, Jas. Woolen Machinery Co., Phila., Pa.
Watson, L. S. Mfg., Leicester, Mass.

Cards (Jacquard)

Case Bros., Highland Park, Conn.
Rogers Paper Co., South Manchester, Conn.

Cards (Revolving Flat)

Firth, Wm. ("Asa Lees & Co., Ltd."), 79 Milk, Boston, Mass.
Howard & Bnloughs Am. Mach. Co. (Ltd.), Pawtucket, R. I.
Lowe, Stephen C., 186 Devonshire, Boston, Mass.
Lowell Machine Shop, Lowell, Mass.
McKerrow, H. G. & Co., 31 State, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

Cards (Roll)

Whittle, Jas. H., Worcester, Mass.

Cards (Simplex)

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Cards (Steel Wire Stripper)

Watson, L. S. Mfg. Co., Leicester, Mass.

Cards (Woolen & Worsted)

American Card Clothing Co., Worcester, Mass.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Lees, Jas. & Sons Co., Bridgeport, Pa.
Lombard Machine Co., Worcester, Mass.
Riley, C. E. & Co. ("Jno. Halgh & Sons, Ltd."), 65 Franklin, Boston, Mass.
Smith, Jas. Woolen Machinery Co., Philadelphia, Pa.
Smith & Furbush Machine Co. ("Furbush"), Hancock & Somerset, Phila., Pa.
Speed & Stephenson ("Henry Hirst & Sons, Ltd."), 170 Summer, Boston, Mass.
Watson, L. S. Mfg. Co., Leicester, Mass.
Whittle, James H. ("Henderson's"), Worcester, Mass.

Carpet Machinery

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
Alverd, Clinton, 5 Summer, Worcester, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Crompton & Knowles Loom Works, Worcester, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
Howard Fdy. & Machine Works, Phila., Pa.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Parks & Woolson Mach. Co., Springfield, Vt.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Carpet Printing Machine

Waldren, Jno. Co., New Brunswick, N. J.

Carpet Rolling Machines

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.

Chenile Machines

Eppler, Jno. Mach. Wks., 629 Filbert, Phila., Pa.

Chinchilla Machines

Kenyon, D. R. & Son, Raritan, N. J.
Whittle, James H., Worcester, Mass.

Chroming Machines

American Drying Machinery Co., 3301 N. 19th, Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Germantown av, Phila., Pa.

Clogs (Dye House)

Wildman, Jos., 1940 N. Front, Phila., Pa.

Cloth Boards

Cady, Geo. L. & Sons, Lowell, Mass.
Case Bros., Highland Park, Conn.
Chaffee Bros. Co., Oxford, Mass.
HEWITT, C. B. & BROS., 49 Beekman, New York. (See adv. index, end of book)
Shryock, J. K., 19 S. 7th, Phila., Pa.
Thompson, Jas. A., Lowell, Mass.

Cloth Brushing Machines

Ardey, S. B. & Sons, Bristol, Pa.
Birmingham Iron Fdy., Derby, Conn.
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.
Jones, Lewis, 60½ Media, Pa.
McCleary, Edw'd., Cohoes, N. Y.
Parks & Woolson Machine Co., Springfield, Vt.
Textile Finishing Machinery Co., Providence.
Thayer, P. E. Co., Pawtucket, R. I.
Whittle, James H., Worcester, Mass.

Cloth Calendering Machines

(See also Calendering Machines)

Aiton Machine Co., Harrison, N. J., & 126 Liberty, New York
Arthur Co., 188 Front, New York
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Machine Co., Worcester, Mass.
Dennis, Jno. Co., Lowell, Mass.
Kilburn, Lincoln & Co. (Inc.), Fall River, Mass.
Lowell Machine Shop, Lowell, Mass.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Terhune, J. I., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co. (Pressure & Friction), Providence, R. I.

Cloth Cutting Machines

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Dennis, Jno. & Co., Lowell, Mass.
Eastman Machine Co., Buffalo, N. Y.
Maimin, H. ("Ballard," Electric), The Bourse, Philadelphia, Pa.
Universal Cutter Co. (Electric), St. Louis, Mo.
Wildman Mfg. Co. (Electric), Norristown, Pa.

Cloth Expanders (Mycock's)

Leyland, Thos. & Co., 53 India, Boston, Mass.

Cloth Folding Machines

(See Folding Machines, Cloth)

Cloth Inspecting Machines

Curtis & Marble Machine Co., Worcester, Mass.
Eddy, Geo. B., 393 Madison, New York
Woonsocket Machine & Press Co., Woonsocket, R. I.

Cloth Measuring Machines

Allyn, C. B. Machine Co. (Combination measuring & winding), 315 Dearborn, Chicago, Ill.
Berlin Machine Works, Beloit, Wis., & 149 B'way, New York
Butterworth, H. W. & Sons Co., Phila., Pa.
CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)
Curtis & Marble Machine Co., Worcester, Mass.
Eastwood, Benjamin, Paterson, N. J.
Elliott & Hall, Worcester, Mass.
Goodspeed Machine Co., Winchendon, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
Textile Finishing Machinery Co., Providence, R. I.
Textile Machinery Works, Reading, Pa.
Voelker, Geo. W. & Co., Woonsocket, R. I.
Windle, J. E., Worcester, Mass.

Cloth Pressing Machines

Beach-Russ Co., 59 Greene, Brooklyn, N. Y.

Cloth Rolling Machines

Berlin Machine Works, 149 B'way, New York
Butterworth, H. W. & Sons Co., Phila., Pa.
Curtis & Marble Macn. Co., Worcester, Mass.
Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
Whittle, James H., Worcester, Mass.

Cloth Room Sewing Machines

Singer Sewing Mach. Co., 149 B'way, New York

Cloth Stamping Machines

Lowell Machine Shop, Lowell, Mass.

Cloth Stretchers

American Finishing Machinery Co. (New Bristol), 45 Milk, Boston, Mass.
Birch Bros., Somerville, Mass.
Butterworth, W. H. & Sons Co., Phila., Pa.
Luther, C. A. & Co., Pawtucket, R. I.
Textile Finishing Machinery Co., Providence, R. I.
Whittle, James H., Worcester, Mass.

Combs, Circles & Fallers

Bagshaw, W. H. (Est. of), Lowell, Mass.
Bradford Wool Comb Co., 2630 Mascher, Phila., Pa.
Bragg, Jno. L., Providence, R. I.
Crabb, Wm. & Co., Newark, N. J.
Crompton & Knowles Loom Works, Worcester, Mass.
Hood, R. H., 1842 Gtn av, Phila., Pa.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Lowe, Stephen C. (Jno. Hetherington & Sons), 186 Devonshire, Boston, Mass.
North Chelmsford Machine & Supply Co., North Chelmsford, Mass.
Speed & Stephenson ("F. H. Benthams"), 170 Summer, Boston, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Stott, Sam'l E. & T., Lowell, Mass.
Townsend, Thomas, 167 Orange, Providence, R. I.
Turner, J. S. Mfg. Co., 398 Middlesex, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Combs (Cotton)

Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Lowe, Stephen C., 186 Devonshire, Boston, Mass.
Mason Machine Works, Taunton, Mass.
Providence Machine Co., Providence, R. I.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.

Combs (Doffer)

Barker, James, 6th cor Cayuga, Phila., Pa.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Providence Machine Co., Providence, R. I.
Smith, James, Woolen Machinery Co., Philadelphia, Pa.
Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
Speed & Stephenson, 170 Summer, Boston, Mass.
Whittle, James H., Worcester, Mass.

Combs (Slasher)

American Supply Co., Providence, R. I.
Emmons Loom & Harness Co., Lawrence, Mass.
Fitzgerald Loom Reed Co., N 2d & Diamond, Phila., Pa.
Gowdey, J. A. Reed & Harness Mfg. Co., Providence, R. I.
Loom Reed & Harness Co., Charlotte, N. C.
McGregor & Sons, Fall River, Mass.
Southern Card Clothing & Reed Co., Charlotte, N. C.
Textile Finishing Machinery Co., Providence, R. I.
Walker Mfg. Co., 191 Berks, Phila., Pa.

Cutting Machines

"Every manufacturer has his own particular problems. If these problems are related to cloth cutting in any way, shape or form, we shall be glad to solve them."

—Cameron Machine Company

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61 Poplar St.

BROOKLYN, N. Y.

MAKERS OF

CUTTING MACHINES

FOR CLOTH AND PAPER

Combs (Weavers)

Sylvester, C. F. & Co., Fall River, Mass.

Combs (Wool)

Austin, M. E. & Co., Lawrence, Mass.
 Bagshaw, W. H. (Est. of), Lowell, Mass.
 Bradford Wool Comb Co., 2630 Mascher, Phila., Pa.
 Bragg, Jno. L., Providence, R. I.
 Crompton & Knowles Loom Works, Worcester, Mass.

Hood, R. H., 1842 Gtn. av., Phila., Pa.
 Lombard Machine Co., Worcester, Mass.
 Jefferson, Ed. & Bro., Phila., Pa.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.
 Miller, Wm., Providence, R. I.
 Riley, C. E. & Co., 67 Franklin, Boston, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Townsend, Thomas, 157 Orange, Providence, R. I.

Compass Boards

Crompton & Knowles Loom Works, Worcester, Mass.
 Royle, John & Sons, Paterson, N. J.

Compellators

Turner, J. S. Mfg. Co., 398 Middlesex, Lowell, Mass.

Condensers

(See Index of Contents)

Cone Tubes

(See Cop Tubes)

Conveyors (Pneumatic)

Buffalo Forge Co., Buffalo, N. Y.
 Green Fuel Economizer Co., Matteawan, N. Y.
 Kitson Machine Shop, Lowell, Mass.
 Schnitzler, Chas. H., 215 N. 2d, Phila., Pa.
 Sturtevant, B. F. Co., Hyde Park, Mass.

Conveyors (Waste End)

New England Ventilating & Heat Co., Providence, R. I.
 Rushton-Carroll Co. ("Robinson & Conley's"), Providence, R. I.

Cop Skewers

(See Skewers)

Cop Tube Machinery

Eppler, Jno. Mach. Wks., 629 Filbert, Phila., Pa.

Cop Tubes (Paper)

Brown, Jas., Jr., Manayunk, Phila., Pa.
 Douglas, Robt. D., Fall River, Mass.
 Fraprie-Douglas Co., Fall River, Mass.
 Jacobs, A. L. Co., 127 Federal, Boston, Mass.
 Lowell Paper Tube Co., Lowell, Mass.
 McCausland, Jno. E., Providence, R. I.
 Pairpoint Corporation, New Bedford, Mass.
 Sayford Paper Specialty Co., Camden, N. J.
 Taylor, Chas. F., 15 Custom, Providence, R. I.
 Textile Tube Co., Fall River, Mass.

Cop Tubes (Tin)

Getchell, S. S. & Son, Woonsocket, R. I.

Cop Winders

(See Winders, Cop)

Copper Work (Dyers')

BADGER, E. B. & SONS CO., 75 Pitts.
 Boston, Mass. (See adv. index, end of book)

Grebenszik, H. & Son, N. Paterson, N. J.
 North River Copper Works, 68 Hudson, Jersey City, N. J.

Rome Metal Co., Rome, N. Y.
 Taunton-New Bedford Copper Co.
 Textile Finishing Machy. Co., Providence, R. I.
 Whittle, James H., Worcester, Mass.
 Wilson, D. H. & Co., 279 Dutton, Lowell, Mass.

Corduroy Cutting Machines

Firth, Wm. Co. (Cotton Cord & Velvet Cutting Machine Co.'s), 79 Milk, Boston, Mass.

Cotton Bandings

(See also Braided Banding)

Am. Supply Co., Providence, R. I.
 Briggs, H. A. & Co., Pawtucket, R. I.

Chase, F. A. & Co., Providence, R. I.
 Covey & Osborn Co., Fall River, Mass.
 Corder, Jas., 411 Baldu, Germantown, Phila., Pa.
 Hodson, John M., Orienta & Willow, Phila., Pa.
 Hoffman-Corr Mfg. Co., 55 White, New York
 Hooper, Wm. E. & Sons, Baltimore, Md.
 Lees Mfg. Co., Westport, Conn.
 Russell Mfg. Co., Middletown, Conn.
 Small Bros., Fall River, Mass.

Cotton Batting Machinery

Franklin Machinery Co., Providence, R. I.
 Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
 Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
 Whitin Machine Works, Whitinsville, Mass.

Cotton Cord Cutting Machines

Firth, Wm. Co. (Cotton Cord & Velvet Cutting Machine Co.'s), 79 Milk, Boston, Mass.

Cotton Machinery

(See also the Particular Article Required)

Abbott, J. V. Mfg. Co., Dedham, Mass.
 Aitemus, Jacob K., 2816 N 4th, Philadelphia, Pa.
 Ahlstrom, A. T., Machine Co., Pawtucket, R. I.
 Brigham, Arthur A., 17 Milk, Boston, Mass.
 Brockway & Meckenstrum Mach. Co., Moodus, Conn.
 Brownell, G. L., 49 Union, Worcester, Mass.
 Butterworth, H. W. & Sons Co., Phila., Pa.
 Clark, J. Machy. Co. (Dealers), Lowell, Mass.
COHOES IRON FOUNDRY & MACHINE
 Co. (Slashing Machinery of Every Description), Cohoes, N. Y. (See adv. index, end of book)

Compton & Knowles Loom Works, Worcester, Mass.

Curtis & Marble Machine Co., Worcester, Mass.
 Dana, Geo. R. (Dealers), Lowell, Mass.
 Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.

Draper Co., Hopedale, Mass.
 Duckrow, R. A. (Dealer), Troy, N. Y.
 Easton & Burnham Machine Co., Pawtucket, R. I.
 Entwistle, T. C. Co., Lowell, Mass.
 Giles & Jenks Machine Co., Pawtucket, R. I.
 Fall River Foundry & Machine Co., Fall River, Mass.

Franklin Machine Co., Providence, R. I.
 Firth, Wm. Co. (Asa Lees & Co.'s), 79 Milk, Boston, Mass.

Howard & Bullough American Machine Co. (Ltd.), Pawtucket, R. I.
 Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
 Hughes & Russum, Fkd., Phila., Pa.

Kilburn, Lincoln & Co., Fall River, Mass.
 Kitson Machine Co., Lowell, Mass.

Lazenby, F. A. & Co., Bush & Wilcomico, Baltimore, Md.
 Leigh, Evan Arthur, 232 Summer, Boston, Mass.

Lowe, Stephen C., 186 Devonshire, Boston, Mass.
 Lowell Machine Shop, Lowell, Mass.
 McKerrow, H. G. & Co., 31 State, Boston, Mass.

Mason Machine Works, Taunton, Mass.
 Nat'l Machy. Co. (Dealers), Providence, R. I.

Parks & Woolson Mach. Co., Springfield, Vt.
 Payne, Geo. W. Co., Pawtucket, R. I.
 Providence Mach. Co., Providence, R. I.

Riley, C. E. & Co., 67 Franklin, Boston, Mass.
 Saco & Pettie Machine Works, Newton Upper Falls, Mass.

Sargent's, C. G. Sons, Graniteville, Mass.
 Schofield, Geo. L., 123 N. Front, Phila., Pa.

Scott, Jas. (Dealer), 241 Chestnut, Phila., Pa.
 Smith, Geo. E. (Dealers), Cohoes, N. Y.

Speed & Stephenson, 170 Summer, Boston, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Universal Winding Co., 95 South, Boston, Mass.
 Whitin Machine Works, Whitinsville, Mass.

Whitinsville Spinning Ring Co., Whitinsville, Mass.
 Woonsocket Mach. & Press Co., Woonsocket, R. I.

Cotton Softeners

Arahol Mfg. Co., 155 William, New York
 Arnold, Hoffman & Co. (Inc.), Providence, R. I.
 Draper, J. O. Co., Pawtucket, R. I.
 Rossion & Lane (Atlantic), Boston, Mass.
 Corev S. J. Co., 273 Congress, Boston, Mass.
 Excelsior Wool Oil Compound Co., Cincinnati, Ohio
 Fox, Chas. J., 313 S Philip, Phila., Pa.
 Harding & Fancourt, 235 N Front, Philadelphia, Pa.

Holbrook Mfg. Co., 470 Wash'n, New York
 Loos & Dillworth, 44 N Delaware av., Phila., Pa.
 Wilmington Oil Co. (Inc.), Wilmington, Del.

Cotton Waste

(See Index of Contents)

Counters (Spindle Speed)

Draper Co., Hopedale, Mass.

Crabbing Machines

Birch Bros., Somerville, Mass.
 Butterworth, H. W. & Sons Co., Phila., Pa.
 Hunter, Jas. Machine Co., N Adams, Mass.
 Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

Creels

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
 Lever, Oswald (Spool, for Warping Mill for Lace Looms), Lehigh & Mascher, Phila., Pa.
 Smith, Jas. Woolen Machinery Co., Phila., Pa.
 Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.
 Speed & Stephenson, 170 Summer, Boston, Mass.

Creels (Dresser)

Whittle, James H. (Connor Patent), Worcester, Mass.

Crochet Machines (Red Blanket)

Morrow Machine Co., Hartford, Conn.

Crocheting Machinery

Berlin Machine Works, 149 B'way, New York
 Morrow Machine Co., Hartford, Conn.
 National Automatic Knitter Co., 125 N. 5th, Phila., Pa.

Cuff Machines (Flat Ribbed)

Pepper Mfg. Co., Lakeport, N. H.

Cut Markers

Butterworth, H. W. & Sons Co., Phila., Pa.
 Draper Co., Hopedale, Mass.
 Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

Cutters (Automatic Peg & Lace Hole)

Royle, John & Sons, Paterson, N. J.

Cutters (Carpet)

Reed Mfg. Co. (Foot & Belt Power), Springfield, Ohio

Cutters (Chenille)

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
CAMERON MACHINE CO., 61 Poplar,
 Brooklyn, N. Y. (See adv. index, end of book)
 Lever, Oswald, Lehigh av & Mascher, Phila., Pa.

Cutters (Cloth)

CAMERON MACHINE CO., 61 Poplar,
 Brooklyn, N. Y. (See adv. index, end of book)

Eastman Machine Co., 45 N Division, Buffalo, N. Y.
 Warth, A. (Est. of), Stapleton, S. I., New York

Cutters (Flock)

Curtis & Marble Machine Co., Worcester, Mass.

Cutters (Gusset)

Utica Novelty & Hill Specialty Co., Utica, N. Y.

Cutters (Knit Fabric)

CAMERON MACHINE CO., 61 Poplar,
 Brooklyn, N. Y. (See adv. index, end of book)
 Kennedy, Thos. & Son, Cohoes, N. Y.
 Langston, Sam'l M., 9th ab Market, Camden, N. J.
 Oswego Machine Works (Nell Gray, Jr., Prop.), Oswego, N. Y.
 Parsons, Henry & Son, Marlboro, Mass.
 Universal Cutter Co., 4565 Scott av., St. Louis, Mo.
 Wildman Mfg. Co. (Cloth also), Norristown, Pa.

Cutters (Plush)

CAMERON MACHINE CO., 61 Poplar,
Brooklyn, N. Y. (See adv. index, end of
Denulis, Jno. & Co., Lowell, Mass. book)

Cutters (Rag)

Curtis & Marble Machine Co., Worcester, Mass.

Cutters (Rib)

Beattie Machine Works, Cohoes, N. Y.
CAMERON MACHINE CO., 61 Poplar,
Brooklyn, N. Y. (See adv. index, end of
Cooper, Charles, Bennington, Vt. book)
Wildman Mfg. Co., Norristown, Pa.

Cutters (Velvet)

CAMERON MACHINE CO., 61 Poplar,
Brooklyn, N. Y. (See adv. index, end of book)

Cylinders (Knitting Machine)

Branson Machine Co., 506 N. American, Phila., Pa.
Brinton, H. & Co., 213 Race, Phila., Pa.
Cook, Stephen S., 624 Race, Phila., Pa.
Paxton & O'Neill, 541 N. 3d, Phila., Pa.
Stafford & Holt, Little Falls, N. Y.

Cylinders (Slasher)

COHOES IRON FOUNDRY & MACHINE
Co., Cohoes, N. Y. (See adv. index, end of book)

Grehenzik, H. & Son, North Paterson, N. J.
Mullin, D. W. & Co., Lowell, Mass.
Textile Finishing Machinery Co., Providence, R. I.
Whittle, James H. (Copper), Worcester, Mass.
Wilson, D. H. & Co., 279 Dutton, Lowell, Mass.

Cylinders (Spinning)

Hill, Jas. Mfg. Co., Providence, R. I.
Whittle, James H. (Tin), Worcester, Mass.

Cylinders (Tin)

New England Ventilating & Heating Co., Providence, R. I.
Getchell, S. S. & Son, Woonsocket, R. I.

Cylinders & Dials (Forged Steel)

Cook, Stephen S., 624 Race, Philadelphia, Pa.

Cylinders & Dials (Knitting Machine)

McMichael, A., 22 Armat, Phila., Pa.
Pearce, Geo. B. & Co., 2316 N 8th, Phila., Pa.

Dampening Machines

American Moistening Co., 79 Milk, Boston, Mass.
Birch Bros., Somerville, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Kenyon, D. R. & Son, Raritan, N. J.
Textile Finishing Machinery Co., Providence, R. I.

Dobbies

Atwood-Morrison Co., Stonington, Conn.
Crompton-Thayer Loom Co., Worcester, Mass.
Eastwood, Benj. Co. (Silk), Paterson, N. J.
Mason Machine Works, Taunton, Mass.
Royle, John & Sons, Paterson, N. J.
Stafford Co., Readville, Mass.
Voelker, Geo. W. & Co., Woonsocket, R. I.

Dobby Chains

Rice, H. P., Sutton, Mass.

Doublers

Atherton Machine Co. (For Silk Mills), Paterson, N. J.
Atwood-Morrison Co. (Worsted), Stonington, Conn.
Curtis & Marble Machine Co., Worcester, Mass.
Eastwood, Benj. Co. (Silk), Paterson, N. J.
Textile Finishing Machinery Co., Providence, R. I.
Textile Machine Works, Reading, Pa.

Dressers (Cotton)

Whitin Machine Works, Whitinsville, Mass.
Whittle, James H., Worcester, Mass.

Dressers (Thread)

Luther, C. A. & Co., Pawtucket, R. I.

Dressers (Warp)

Philadelphia Textile Machinery Co. ("Furbush"), Phila., Pa.
Smith, Jas., Woolen Machinery, 411 Race, Phila., Pa.
Smith & Furbush Machine Co., 17 Exchange pl., Providence, R. I.
Textile Finishing Machinery Co., Providence, R. I.

Dressers (Wool)

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.

Dressers (Yarn)

Franklin Machine Co., Providence, R. I.
Luther, C. A. & Co., Pawtucket, R. I.
Whittle, James H., Worcester, Mass.

Drop Wires

Blackstone Reed & Harness Co., Pawtucket.
Brooks, M. S. & Sons, Chester, Conn. R. I.
U. S. Bobbin & Shuttle Co., Providence, R. I.

Dry Poles (Enameled) for Silk Dyers

American Enamel Co., Providence, R. I.

Dryers (Carpet)

Butterworth, W. H. & Sons Co., 2415 E York, Philadelphia, Pa.
Curtis & Marble Machine Co., Worcester, Mass.

Dryers (Cloth)

Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Blinford, Boston, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Green Fuel Economizer Co., Matteawan, N. Y., & 1218 West Street Bldg., New York
Kenyon, D. R. & Son, Raritan, N. J.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av., Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Sturtevant, B. F. Co., Hyde Park Mass.
Textile Finishing Machinery Co., Providence, R. I.
Whittle, Jas. H. (Of All Widths), Worcester, Mass.

Dryers (Cotton)

American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
Kitson Machine Shop (Raw Stock Cotton), Lowell, Mass.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av., Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Salem Iron Works, Winston Salem, N. C.
Sargent's, C. G. Sons, Westford, Mass.

Dryers (Hair)

Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av., Phila., Pa.

Dryers (Hot Air Apron)

Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

Dryers (Skein)

Whittle, James H. (New Rotating), Worcester, Mass.

Dryers (Underwear)

American Drying Machinery Co., Westmoreland & P. & R. Ry., Phila., Pa.
Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Blinford, Boston, Mass.
Green Fuel Economizer Co., Matteawan, N. Y., & 1218 West Street Bldg., New York
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av., Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Salem Iron Works, Winston Salem, N. C.
Sturtevant, B. F. Co., Hyde Park Mass.
Utica Novelty & Mill Specialties Co. (Knit Goods in the Roll), Utica, N. Y.

Dryers (Warp)

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Clark, George P., Windsor Locks, Conn.
Textile Finishing Machinery Co., Providence, R. I.

Dryers (Wire Top)

Smith, James Woolen Machinery Co., 411 Race, Philadelphia, Pa.

Dryers (Wool)

American Blower Co., Detroit, Mich.
American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Blinford, Boston, Mass.
Green Fuel Economizer Co., Matteawan, N. Y., & 1218 West Street Bldg., New York
Hunter, James, Machine Co. ("Stone"), N. Adams, Mass.
Kitson Machine Co., Lowell, Mass.
Lorimer, Jno. H., Walnut la, Gtn., Phila., Pa.
National Blower Works, 17th & St. Paul av., Milwaukee, Wis.
Philadelphia Drying Machinery Co. ("Hurricane"), 6721 Germantown av., Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Smith, James Woolen Machinery Co., Phila., Pa.
Sturtevant, B. F. Co., Hyde Park Mass.
Whittle, James H., Worcester, Mass.

Dryers (Yarn)

American Drying Machinery Co., Westmoreland, & P. & R. Ry., Phila., Pa.
Bailey, Frank (Hot & Cold Air), Cedar Brook, N. J.
Barney Ventilating Fan Works (A. B. Franklin, Prop.), 24 Blinford, Boston, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Green Fuel Economizer Co., Matteawan, N. Y., & 1218 West Street Bldg., New York
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Philadelphia Drying Machinery Co., 6721 Germantown av., Phila., Pa.
Philadelphia Textile Machinery Co. ("Cyclone"), Phila., Pa.
Sargent's, C. G. Sons, Westford, Mass.
Sturtevant, B. F. Co., Hyde Park Mass.
Vacuum Process Company, 5 State, Boston, Mass.
Whittle, James H., Worcester, Mass.

Drying Machinery

(See Dryers, Various Kinds)

Drying Machines (Print Work)

Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Textile Finishing Machinery Co., 17 Exchange pl., Providence, R. I.

Dust Collectors

(See Page 326)

Dusters (Rag)

Bagshaw, W. H. (Est. of), Lowell, Mass.
Gerry, Geo. & Son, Athol, Mass.
Kitson Machine Co., Lowell, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Smith, James Woolen Machinery Co., Phila., Pa.
Whittle, James H., Worcester, Mass.

Dusters (Wool & Waste)

Curtis & Marble Machine Co., Worcester, Mass.
Gerry, Geo. & Son, Athol, Mass.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunter, Jas. Machine Co., North Adams, Mass.
Lahue, M. M. & Co., Lowell, Mass.
Lombard Machine Co., Worcester, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Whittle, James H. (Improved with Fan), Worcester, Mass.

Dye Becks

Butterworth, H. W. & Sons Co., 2415 E York, Philadelphia, Pa.
Watson Machine Co., Paterson, N. J.
Woonsocket Machine & Press Co., Woonsocket, R. I.

Dye Kettles

(See Copper Work, Dyers')

Dye Sticks

Bailey, Frank, Cedar Brook, N. J.
Nashua Spool & Bobbin Co., Journal bldg,
Boston, Mass.

Dye Tubs

American Stave & Cooperage Co., 205 Charles,
Boston, Mass.
Hopkins Machine Works (Inc.), Bridgeton,
R. I.
Hunt, Rodney Machine Co., Orange, Mass.
STEARNS, A. T. LUMBER CO., Ne-
ponset, Boston, Mass. (See adv. index, end
of book)
Terhune, J. I. ("Fletcher's"), 164 Ward, Pat-
erson, N. J.
Woolford, G. Wood & Tank Mfg. Co., New
Land Title bldg, Phila., Pa.

Dyeing Machinery

Adams Laundry Machinery Co., Troy, N. Y.
American Drying Machinery Co. (Cloth), 3301
N 19th, Phila., Pa.
American Dyeing Machine Co., Camden, N. J.
Arlington Machine Works, Arlington, Mass.
Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York,
Philadelphia, Pa.
Cornell Stocking Corp., New Bedford, Mass.
Delahunty Dyeing Machine Co., Pittston, Pa.
Dnbois, A. N., 2170 Sedgely av, Phila., Pa.
Entwistle, T. C., Lowell, Mass.
Hart, Chas., Frankford, Phila., Pa.
Holyoke Machine Co., Holyoke, Mass.
Hopkins Machine Works (Inc.) (Piece),
Bridgeton, R. I.
Hussong Dyeing Machine Co., Groveville, N. J.
Kenyon, D. R. & Son, Raritan, N. J.
Klauder-Weldon Dyeing Machine Co., Amster-
dam, N. Y.
Klein, Chas. C., 2850 N Marshall, Phila., Pa.
Klipstein, A. & Co. ("Cohwen"), 122 Pearl,
New York
Leigh, E. A., 232 Summer, Boston, Mass.
Lorimer, Jno. H., Walnut la, Gtn., Phila., Pa.
Philadelphia Drying Machinery Co. ("Hurri-
cane" Circulating), 6721 Germantown av,
Phila., Pa.
Rushton-Carrol Co. ("Bowers"), Providence,
R. I.
Salem Iron Works, Winston Salem, N. C.
Sargent's, C. E. Sons, Westford, Mass.
Smith, Drum & Co., 2503 Coral, Phila., Pa.
Stoddard, Haserick, Richards & Co., 152 Con-
gress, Boston, Mass.
Taylor & Fenn Co., 54 Arch, Hartford, Conn.
Terhune, J. I., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co., Providence,
R. I.
Vacuum Dyeing Mach. Co., Chattanooga, Tenn.
Watson Machine Co., Paterson, N. J.
Waters, D. F., 55 Wlster, Germantown, Pa.

Dyeing Machines (Skein)

Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Elevators (Cotton)

American Blower Co., Detroit, Mich.
Buffalo Forge Co., Buffalo, N. Y.
Continental Gin Co. (Inc.) Birmingham, Ala.,
and Bridgewater, Mass.
Hersey Mfg. Co., 314 W 2d, Boston, Mass.
Jones, Dudley E. Co., Little Rock, Ark.
MORSE, WILLIAMS & CO., 32 S
Broad, Philadelphia, Pa. (See adv. index,
end of book)
Thomas-Fordyce Mfg. Co., Little Rock, Ark.

Elevators (Spool)

Schnitzler, Charles H., 215 N 2d, Phila., Pa.

Embroidery Machines

Ahlstrom, Q. P., 529 B'way, New York
Dubrow & Hearne Mfg. Co., 12 Wooster, New
York
Home Embroidery Machine Co., Kansas City,
Kan.
Parkes Machine Co., 286 Graham av, Brooklyn,
N. Y.
Proctor & Teneriffe Lace Wheel Co., 757 B'way,
New York

Engravers (Copper Roll)

Dunn Textile Engraving & Mfg. Co., Frank-
ford, Phila., Pa.
Highland Engraving Co., 311 Boulevard, Pas-
saic, N. J.
Hope, Jno. & Sons Engr. & Mfg. Co., Provi-
dence, R. I.

Engraving Machines (Print Works)

Dunn Textile Engraving & Mfg. Co., Frank-
ford, Phila., Pa.
Hope, John & Sons, Engraving & Manufactur-
ing Co., Providence, R. I.

Fabric Pin Ticket Machines

Automatic Pin Ticketing Machine Co., Day-
ton, Ohio
Saranac Machine Co. ("Advance" for Fab-
rics), St. Joseph, Mich.

Fabric Sizing (Glue)

HEWITT, C. B. & BROS., 49 Beek-
man, New York. (See adv. index, end of
book)

Fans (Exhaust)

(See Page 417)

Feeder Clutch Attachments

Harwood, Geo. S. & Son, 53 State, Boston,
Mass.

Feeders (Automatic Self-Weighing Scale)

Harwood, Geo. S. & Son ("Bramwell"), 53
State, Boston, Mass.
Smith, Jas. Woolen Machinery Co., 411 Race,
Phila., Pa.

Feeds or Feeders

American Drying Machinery Co. ("Kershaw"
Web Feed), Westmoreland & P. R. R.,
Phila., Pa.
Brown Cotton Gin Co., New London, Conn.
Clark Machine & Fdy. Co. ("Bramwell"),
Franklin, Mass.
Curtis & Marble Machine Co. (Picker & Card),
Worcester, Mass.
Harwood, Geo. S. & Son ("Bramwell" & "Ap-
perly"), 53 State, Boston, Mass.
Hunter, James Machine Co., N. Adams, Mass.
Nath'l Machy. Co., Providence, R. I.
Phila. Drying Machinery Co., Phila., Pa.
Sargent's, C. G. Sons, Westford, Mass.
Schofield, Wm. Co., Manayunk, Phila., Pa.
Smith, Jas., Woolen Machinery Co., 41 Race,
Phila., Pa.
Smith & Furbush Machine Co., Phila., Pa.
Woonsocket Machine & Press Co., Woonsocket,
R. I.

Felt Machinery

Dennis, Jno. Co., Lowell, Mass.
Farrel Foundry & Machine Co., Ansonia, Conn.

Felting Machines (Cotton)

Ivens, Wm. H. Sons Co., Trenton, N. J.

Finishing Machines (Bandage)

CAMERON MACHINE CO. (Surgeons'
Bandage Cutting Machines), Brooklyn, N. Y.
(See adv. index, end of book)

Finishing Machines (Carpet)

Crompton & Knowles Loom Works, Worcester,
Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Parks & Woolson Mach. Co., Springfield, Vt.

Finishing Machines (Cloth)

Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York,
Phila., Pa.
CAMERON MACHINE CO. (Cloth Cut-
ting, Folding & Measuring Machines), 61
Poplar, Brooklyn, N. Y. (See adv. index
end of book)
Cavagnaro, Jno. J., 215 Centre, New York
Curtis & Marble Machine Co., Worcester, Mass.
Gessner, David, Worcester, Mass.
Palmer, I. E., Middletown, Conn.
Parks & Woolson Mach. Co., Springfield, Vt.
Rushton-Carroll Co., Providence, R. I.
Terhune, J. I., 164 Ward, Paterson, N. J.

Textile Finishing Machinery Co., Providence,
Textile Machine Works, Reading, Pa. R. I.
Whittle, Jas. H., Worcester, Mass.
Windle, J. E., Worcester, Mass.

Finishing Machines (Knit Goods)

Excelsior Sewing Machine Co., 1216 Columbla
av, Phila., Pa.
Grosser Knitting Machine Co., 260 W B'way,
New York
Merrow Machine Co. (For all kinds of Fab-
rics), Hartford, Conn.
Nye & Fredrick Co., 606 Arch, Phila., Pa.
National Automatic Knitter Co., 125 N 5th,
Phila., Pa.
Smith, Drum & Co., 2503 Coral, Philadelphia,
Pa.
Union Special Machine Co., 75 E. Kenzie,
Chicago, Ill.
Wilcox & Gibbs Sewing Machine Co., 658
B'way, New York

Finishing Machines (Ribbon)

CAMERON MACHINE CO., 61 Poplar,
Brooklyn, N. Y. (See adv. index, end of
book)

Finishing Machine (Tape)

Textile Finishing Machinery Co., Providence,
R. I.

**Finishing Machines (Wool & Wors-
ted)**

Butterworth, H. W. & Sons Co., 2415 E York,
Phila., Pa.
Curtis & Marble Machine Co. (Also Cotton),
Worcester, Mass.
Schuchardt & Schutte (Dry Decatizing Ma-
chine), 90 West, New York
Schwartz, L. H. A. & Co. ("Paul Klug" De-
cating Machine), 53 State, Boston, Mass.
Stoddard, Haserick, Richardson & Co., 152
Congress, Boston, Mass.
Textile Finishing Machinery Co., Providence,
Watson Machine Co., Paterson, N. J. R. I.
Whittle, James H., Worcester, Mass.

Flax Machinery

Crabb, Wm. & Co., Newark, N. J.
Firth, Wm. Co. ("Mackie & Sons"), 150 Dev-
onshire, Boston, Mass.
Haskell-Dawes Machine Co., 176 Federal, Bos-
ton, Mass.
Eddy, W. Plow Co., Greenwich, New York
Leigh, Evan Arthur, 232 Summer, Boston, Mass.

Fleecing Machines

(See Napping Machines)

Flock Cutters

(See Cutters, Flock)

Flyers

(See also Frames, Cotton, Fly)

Baker Machine Corp'n, New Bedford, Mass.
Buckley's, B. Son, Paterson, N. J.
Hartson, L. M. Co. (Spinners), North Wind-
ham, Conn.
Hayor, Thos. & Son, Providence, R. I.
Hopkins Mach. W'ks (Inc.), Bridgeton, R. I.
Providence Machine Co., Providence, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith, J. A. V., Manchester, N. H.
Smith, J. A. V. Co., 65 Franklin, Boston,
Mass.
Speed & Stephenson ("Bavistow Bros."), 170
Summer, Boston, Mass.
Textile Machinery Co. ("Dunn"), 60 India,
Boston, Mass.
Thnrston, A. G. & Son, Fall River, Mass.
U. S. Bobbin & Shuttle Co., Providence, R. I.
Ward & Vandergrift, Elmer, N. J.
Westcott, A. W., Hopedale, Mass.

Folding Machines (Cloth)

CAMERON MACHINE CO., 61 Poplar,
Brooklyn, N. Y. (See adv. index, end of
book)
Curtis & Marble Machine Co., Worcester,
Mass.
Elliot & Hall, 50 Hermon, Worcester, Mass.
Johnson, C. A. & Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
McCreary, Edw. M., Cohoes, N. Y.
S. C. F. Machinery Co., Nashville, Mich.

Textile Finishing Machinery Co., Providence,
Windle, J. E., Worcester, Mass. R. I.
Woonsocket Machine & Press Co., Woonsocket,
R. I.

Folding & Cutting Machines (Underwear)

Goodwin, J. C., 2d & Diamond, Phila., Pa.

Folding & Measuring Machines

CAMERON MACHINE CO. (Cloth), 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Curtis & Marble Machine Co., Worcester, Mass.
Elliot & Hall, 54 Hermon, Worcester, Mass.
Parks & Woolson Mach. Co., Springfield, Vt.
Textile Finishing Machinery Co., Providence, R. I.

Frames (Cotton Drawing)

Altemus, Jacob K., Phila., Pa.
Draper Co., Hopedale, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Franklin Machine Co., Providence, R. I.
Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
McKerrow, H. G. & Co., Boston, Mass.
Mason Machine Works, Taunton, Mass.
Providence Machine Co., Providence, R. I.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

Frames (Cotton Fly)

Altemus, Jacob K., Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Lowell Machine Shops, Lowell, Mass.
Providence Mach. Co., Providence, R. I.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Watson, L. S. Mfg. Co., Paterson, N. J.
Whitin Machine Co., Whitinsville, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

Frames (Gassing)

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Frames (Hand Lacing)

Royle, John, & Sons, Paterson, N. J.

Frames (Harness)

Crompton & Knowles Loom Works, Worcester, Mass.
Brown Bros. Co., Providence, R. I.
Watson, L. S. Mfg. Co., Paterson, N. J.
Williams, J. H. Co., Utica, N. Y.

Frames (Heddle)

Walker Mfg. Co., 191 Zerkes, Phila., Pa.
Watson, L. S. Mfg. Co., Leicester, Mass.

Frames (Intermediate)

Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.

Frames (Jack)

Howard & Bullough Am. Mach. Co. (Ltd.), Pawtucket, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Frames (Redrawing)

Atwood-Morrison Co., Stonington, Conn.

Frames (Ring Spinning)

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
Fales & Jenks Machine Co., Pawtucket, R. I.
Fall River Foundry & Machine Co., Fall River, Mass.
Franklin Machine Co., Providence, R. I.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Providence Machine Co., Providence, R. I.
Saco & Pettie Machine Works, Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

Frames (Roving)

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Howard & Bullough Am. Mach. Co., Ltd., Pawtucket, R. I.
McKerrow, H. G. & Co., 31 State, Boston, Mass.
Providence Machine Co., Providence, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Saco & Pettie Machine Works, Newton Upper Falls, Mass.
Speed & Stephenson, 179 Summer, Boston, Mass.

Frames (Slubbing)

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
Firth, Wm. Co., 79 Milk, Boston, Mass.
Howard & Bullough Am. Mach. Co. (Ltd.), Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Providence Machine Co., Providence, R. I.
Saco & Pettie Machine Works, Newton Upper Falls, Mass.

Frames (Spinning)

(See also Frames, Ring Spinning; also Frames, Wool Spinning; also Mules)
Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Flaccus, C. L., 224 N 3d, Phila., Pa.
Howard & Bullough Rm. Mach. Co. (Ltd.), Pawtucket, R. I.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Lowell Machine Shop, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Saco & Pettie Machine Shops, Newton Upper Falls, Mass.
Whitin Machine Works, Whitinsville, Mass.

Frames (Twisting)

(See Twisters)

Frames (Wool Spinning)

(See also Mules)

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
Fall River Foundry & Machine Co., Fall River, Mass.
Flaccus, C. L., 224 N 3d, Phila., Pa.
Johnson & Bassett, Worcester, Mass.
Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.

Fulling Mills

Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., N Adams, Mass.
Kenyon, D. B. & Son, Raritan, N. Y.

Garnett Machines

Smith, James Woolen Machinery Co., 411 Race, Philadelphia, Pa.
Smith & Furbush Machine Co. ("Proctor"), Hancock & Somerset, Phila., Pa.

Garnett & Card Machines (Combined)

Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.

Gassing Machines

Brigham, Arthur A., 17 Milk, Boston, Mass.

Gas Singeing Machines

(See Singeing Machines)

Gigs (Teasel)

Curtis & Marble Machine Co. (Gessner Patent), Worcester, Mass.
Parks & Woolson Machine Co., Springfield, Vt.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Whittle, Jas. H., Worcester, Mass.

Gill Screws

Hood, R. H., 1842 Gtn av, Phila., Pa.

Gill & Combing Pins

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Gills (Preparing & Finishing)

Atherton, A. T. Machine Co., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Speed & Stephenson, 170 Summer, Boston, Mass.

Glass Rods & Bars

Mitchell-Bissell Co. (Rods for Looms), 227 Fulton, New York

Guide Wires

American Supply Co., 13 Eddy, Providence, R. I.
Blackstone Reed & Harness Co., Pawtucket, R. I.
Brooks, M. S., & Sons, Chester, Conn.
Jencks, E., Mfg. Co., Pawtucket, R. I.
Spencer Wire Co., Worcester, Mass.
Fire Goods Co., 20 Union, Worcester, Mass.

Guides (Porcelain & Enameled)

Mitchell-Bissell Co., 227 Fulton, New York

Hackle Pins

Crabb, Wm. & Co., Newark, N. J.
Lydeil & Foulds Paper Co., Manchester, Conn.

Hackles

(See Combs, Circles & Fellers)

Harness Straps

Chicago Raw Hide Mfg. Co., 75 E Ohio, Chicago, Ill.
Coupe, Wm. & Co., South Attleboro, Mass.
Jacobs, E. H. Mfg. Co., Danielsville, Conn.

Harness Twine

Allen, J. & S. (Carpet Looms), Walpole, Mass.
Ballou Yarn Co., Providence, R. I.
Cranston Worsted Mills, Bristol, R. I.
Eichmann & Sternberg, 530 B'way, New York
Fawcett, Hughes, 115 Franklin, New York
Hoffman-Corr Mfg. Co., 55 White, New York
Marshall & Co., Kearny, N. J.
Moore, C. & Co., 500 Market, Phila., Pa.
Morgan, E. A., 54 Franklin, New York
Whittier Mills, Springfield, Mass.
Williams, J. H. Co., Utica, N. Y.

Harnesses (Loom)

Allentown Reed, Harness & Hill Supply Co., Allentown, Pa.
American Supply Co., Providence, R. I.
Andrews Loom Reed & Harness Co., Spartanburg, S. C.
Blackstone Reed & Harness Co., Pawtucket, R. I.
Carruthers, Robt., Lowell, Mass.
Crabb, Wm. & Co., Newark, N. J.
Emmons Loom & Harness Co., Lawrence, Mass.
Excelsior Loom Reed Works, Pawtucket, R. I.
Fowler, Henry C. Loom Harness Co., New Bedford, Mass.
Gibbs Loom, Harness & Reed Co., Clinton, Mass.
Hall, I. A. & Co., 30 Hamilton av, Paterson, N. J.
Harris, Geo. W., 199 Perkins, Lowell, Mass.
Hayes Loom, Reed & Harness Co., Woonsocket, R. I.
Paterson Reed & Harness Co., Paterson, N. J.
Schaum & Uhinger, N 2d & Glenwood av, Phila., Pa.
Street, R. R. & Co., 184 Washington, Chicago, Ill.
Ulrich & Co., Paterson, N. J.
Walder, J., Paterson, N. J.
Webster Loom Harness Co., Fall River, Mass.
Wilkins, F. B. & Co., Woonsocket, R. I.
Williams, J. H. Co., Fall River, Mass.

Heck Stands

Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

Heddles

American Supply Co., Providence, R. I.
Carruthers, Robt., Lowell, Mass.
Emmons Loom Harness Co., Lawrence, Mass.
Firth, Wm. Co. ("R. Center Fils"), 179 Milk, Boston, Mass.
Hall, I. A. & Co., 30 Hamilton av, Paterson, N. J.

Harris, Geo. W., 199 Perkins, Lowell, Mass.
Howard Bros. Mfg. Co., 42 Vine, Worcester, Mass.
Schaum & Uhlinger, N 2d st & Glenwood av, Phila., Pa.
Steel Heddle Mfg. Co., 2110 W Allegheny av, Phila., Pa.
Walder, J., Paterson, N. J.
Walker Mfg. Co., 191 Berks, Phila., Pa.
Watson, L. S. Mfg. Co., Leicester, Mass.
Williams, J. H. Co., Utica, N. Y.

Heddles (Braided)

Emmons Loom & Harness Co. ("Thibaud's"), Lawrence, Mass.
Hall, I. A. & Co., 30 Hamilton av, Paterson, N. J.

Heddles (Jacquard)

American Supply Co., Providence, R. I.

Heddles (Steel)

Parkinson, E. Co. (Imported), Sarperville, Mass.
Steel Heddle Mfg. Co., 2110 W Allegheny av, Phila., Pa.
Williams, J. H. Co., Utica, N. Y.

Heddles (Wire)

Billington, Jos. H. Co., 113 Chestnut, Phila., Pa.
Bull, Wm. C., Bennington, Vt.
Chase, F. A. & Co., Providence, R. I.
Gibbs Loom Harness & Reed Co. ("Tempered Steel"), Clinton, Mass.
Howard Bros. Mfg. Co. (Also Twin Wire German Heddles), 42 Vine, Worcester, Mass.
Watson, L. S. Mfg. Co. (German Tinned Wire), Leicester, Mass.

Hoods (Slasher)

New England Ventilating & Heating Co., Providence, R. I.

Hooks (Reed)

Ferrari Bros. Co., Paterson, N. J.
New England Specialty Co., North Easton, Mass.

Hosiery Bands & Labels

Albright & Shenton, Reading, Pa.
Bray, J., 2045 E Fletcher, Phila., Pa.
Novelty Printing Co. (Inc.), 2041 E Susquehanna av, Phila., Pa.
Reis, G. & Bro., 640 B'way, New York

Hosiery Boards

Bull, Wm. C., Bennington, Vt.
Clarke, Geo. H. & Co., Meredith, N. H.
Nashua Spool & Bobbin Co., Journal bldg, Boston, Mass.
Pearson, Jos. T., 1815 E Boston av, Kensington, Phila., Pa.
Thalheimer, A. Mfg. Co., Reading, Pa.
Wisconsin Textile Mfg. Co., Two Rivers, Wis.

Hosiery Machines

(See Knitting Machines, Hosiery)

Hosiery Striping Attachments

American Knitting Machine Co., 56 N 6th, Phila., Pa.

Humidifying Apparatus

(See also Moistening Apparatus, Air)

American Moistening Co., 79 Milk, Boston, Mass.

BELL PURE AIR & COOLING CO., 90 West, New York

Buffalo Forge Co., Buffalo, N. Y.
Carrier Air Conditioning Co. of America, 39 Cortlandt, New York
Cobburn, Fred S., Woonsocket, R. I.
Globe Moistening Co. ("Clarkson's"), Fall River, Mass.

GREEN FUEL ECONOMIZER CO., Nat- teawan, N. Y., & 1218 West st. bldg, New York. (See adv. index & branch offices, end of book)

New England Ventilating & Heating Co., Providence, R. I.

Parks, G. M. Co. ("Turbo" Humidifier), Fitchburg, Mass.

Schutte & Koerting (For Spinning Mills, Tobacco Factories, etc.), 1251 N 12th, Phila., Pa.

Sturtevant, R. F. Co., Hyde Park, Mass.

THOMAS & SMITH (Inc.), 17 S. Car- penter, Chicago, Ill., & 288 Hudson, New York. (See adv. index, end of book)

Hydro-Extractor Guards

Utica Novelty & Mill Specialty Co., Utica, N. Y.

Hydro-Extractors

Adams Laundry Machinery Co. (For Clothes Wringing), 1935 6th av, Troy, N. Y.
American Tool & Machine Co., 109 Beach, Boston, Mass.
Curtis & Marble Machine Co. (Horizontal), Worcester, Mass.
Empire Laundry Machinery Co., Boston, Mass.
Hagen, A. T. Co., Rochester, N. Y., & 20 S Clinton, Chicago, Ill.
Riley, C. E. & Co., 65 Franklin (Sole agts. for Thos. Broadhursts & Sons' Patent Suspended Steam Driven), Boston, Mass.
Salem Iron Works, Winstonsalem, N. C.
Schaum & Uhlinger, N 2d & Glenwood av, Phila., Pa.
Textile Finishing Machinery Co., Providence, R. I.
Tolhurst Machine Works, Troy, N. Y.
Troy Laundry Machinery Co., Troy, N. Y.
Whittle, James H., Worcester, Mass.

Indigo Mills

Humphrey Machine Co., Keene, N. H.
Lord, Bowler & Co., 33 Center, Cleveland, O.
Lowell Machine Shop, Lowell, Mass.
Textile Finishing Machinery Co., Providence, R. I.
Townsend Furnace & Machine Shop, Albany, N. Y.

Jack Hooks

Brooks, M. S. & Sons, Chester, Conn.

Jiggers

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Kenyon, D. R. & Son, Raritan, N. J.
Mackenzie, Duncan & Sons, Trenton, N. J.
Perhune, J. L., 164 Ward, Paterson, N. J.
Textile Finishing Machinery Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

Jute Machinery

(See also Spinning Machinery, Jute)

Laskell-Dawes Machine Co., 176 Federal, Boston, Mass.
Todd, Jos. C. (Est. of), 203 B'way, New York & Paterson, N. J.

Kiers

Dillon, D. M., Fitchburg, Mass.
Jefferson, E. D., 131 State, Boston, Mass.
Wholey Boiler Works, Providence, R. I.

Knit Fabric Slitters & Rewinders

Langston, Samuel M., Camden, N. J.

Knitting Machine Attachments

Branson Machine Co., 504 N. American, Phila., Pa.
Limax Machine Co., 1753 N Howard, Philadelphia, Pa.
Cooper, Chas., Bennington, Vt.
Sweet & Doyle, Cohoes, N. Y.

Knitting Machinery

Adams, Geo. H. & Co., Hill, N. H.
Ainslie Knitting Machine Co., Ainslie & Humboldt, Brooklyn, N. Y.
American Knitting Machine Co., 56 N 6th, Phila., Pa.
American Machine Works, 420 Samson, Phila., Pa.
American Twist Drill Co., Laconia, N. H.
Brdrey, S. R. & Sons, Bristol, Pa.
Bentley Machine Works, Cohoes, N. Y.
Ross Knitting Machine Works, Reading, Pa.
Branson Machine Co., 506 N American, Phila., Pa.
Brenner, Jos., N 2d cor Diamond, Phila., Pa.
Brinton, H. & Co. (Seamless Ribbed Machines for All Kinds of Hosiery and Underwear), 213 Race, Phila., Pa.
Burson Mfg. Co., Rockford, Ill.
Central Knitting Co. (Sweaters & Jackets), 780 Madison, Brooklyn, N. Y.
Campbell & Clute, Cohoes, N. Y.
Cook, Stephen S., 624 Race, Phila., Pa.
Cooper, Chas. (Automatic), Bennington, Vt., & Amsterdam, N. Y.
Crane Bros., Westfield, Mass.
Crane Mfg. Co., Lakeport, N. H.
Crawford Mfg. Co., New Brunswick, N. J.

Eppler, Jno. Mach Works, 629 Filbert, Philadelphia, Pa.
Excelsior Knitting Mach. Mfg. Co., Allentown, Pa.

Fisher Knitting Machine Co., Utica, N. Y.
Flexible Machine Works (Inc.), Reading, Pa.
Gearhart, Jos. E. & Son, Clearfield, Pa.
General Machine Works, York, Pa.
Gormley, Robt. W. & Co., Troy, N. Y.
Grosser Knitting Machine Co., 260 W B'way, New York

Hemphill Mfg. Co. ("Banner"), Pawtucket, R. I.
Hepworth, Jno. W. & Co., Lehigh av & Memphis, Phila., Pa.

Hodgson, E. A., Laconia, N. H.
Huse, Warren D. & Sons, Lakeport, N. H.
Ives, Loyal T., New Brunswick, N. J.
Jenckes, E. Mfg. Co. (Invincible Automatic Hosiery), Pawtucket, R. I.
Jones, Lewis, 60 1/2 Media, Phila., Pa.

Kennedy, Thos., Cohoes, N. Y.
Keystone Knitter & Needle Co., 2600 N 6th, Phila., Pa.

Kilbourn Knitting Machine Co., New Brunswick, N. J.
Lamb Knitting Machine Co., Chicopee Falls, Mass.

Leighton Machine Co., Manchester, N. H.
Lindley, Geo. W., Germantown, Pa.
McMichael, A., Philadelphia, Pa.

Mayo, Geo. D. Machine Co. (Automatic), Laconia, N. H.
Mayo Knitting Machine & Needle Co. ("Hemphill," "Acme"), Franklin Falls, N. H.

Merrow Machine Co., 28 Laurel, Hartford, Conn.
National Automatic Knitter Co., 1020 Susquehanna av, Philadelphia, Pa.

Nye & Tredick Co., 606 Arch, Phila., Pa.
Paxton & O'Neill, 451 N. 3d, Phila., Pa.
Pearce, Geo. B. & Co., 2316 N 8th, Phila., Pa.

Pearson, W. H. & Sons, Lowell, Mass.
Pepper Mfg. Co., Lakeport, N. H.
Richter, Wolfgang, 535 N. Lawrence, Phila., Pa.

Ruth Automatic Knitting Machine Co., York, Pa.
Scott & Williams, 2079 E Cumberland, Phila., Pa.

Snyder, Homer P. Mfg. Co., Little Falls, N. Y.
Stafford & Holt, Little Falls, N. Y.
Standard Machine Co., 330 N 12th, Phila., Pa.

Steber Machine Co., 9 Charlotte, Utica, N. Y.
Taylor, James, 835 Arch, Phila., Pa.
Textile Machine Works (Inc.), Reading, Pa.

Tiffany Bros., Bennington, Vt.
Tompkins Bros. Co., Troy, N. Y.
Trump Bros. Machine Co. (Hosiery & Underwear), Wilmington, Del.

Walther, Otho, Bourse bldg., Phila., Pa.
Wilcomb Machine Co. (Inc.), Norristown, Pa.
Wildman Mfg. Co., Norristown, Pa.

Knitting Machines (Circular)

Crane Bros., Westfield, Mass.
Crane Mfg. Co., Lakeport, N. H.
Leighton Machine Co., Manchester, N. H.
National Automatic Knitter Co., 1020 Susquehanna av., Phila., Pa.
Nye & Tredick Co., 606 Arch, Phila., Pa.
Wildman Mfg. Co., Norristown, Pa.

Knitting Machines (Hosiery)

Branson Machine Co. ("Branson" Hand Power & Automatic), 508 N American, Phila., Pa.

Brinton, H. & Co. (Ribbed & Seamless), 213 Race, Phila., Pa.
Cooper, Chas., Bennington, Vt.
Hemphill Mfg. Co., Pawtucket, R. I.

Jenckes, E. Mfg. Co. (Invincible Automatic), Pawtucket, R. I.
Lamb Knitting Machine Co., Chicopee Falls, Mass.

Leighton Machine Co., Manchester, N. H.
Mayo Knitting Machine & Needle Co., Franklin, N. H.

National Automatic Knitter Co., 1020 Susquehanna av, Phila., Pa.
Nye & Tredick, 606 Arch, Phila., Pa.
Pearce, Geo. B. & Co., 2316 N 8th, Phila., Pa.

Scott & Williams, 2079 E Cumberland, Phila., Pa.
Standard Machine Co., 508 Ludlow, Phila., Pa.

Taylor, James, 835 Arch, Philadelphia, Pa.
Trump Bros. Machine Co., Wilmington, Del.

Knitting Machines (Rib)

Brinton, H. & Co. (For Hosiery & Underwear), 213 Race, Phila., Pa.
Champion Machine Co., Philadelphia, Pa.

Cooper, Chas. (Automatic), Bennington, Vt.
General Machine Works, York, Pa.
Huse, Warren D. & Sons, Lacoula, N. H.
National Automatic Knitter Co., 1020 Susquehanna av, Phila., Pa.
Nye & Tredick Co. ("Automatic" Circular), 606 Arch, Phila., Pa.
Ruth & Co., Norristown, Pa.
Ruth Machine Co., York, Pa.
Scott & Williams (For Underwear, etc.), 2079 E Cumberland, Phila., Pa.
Snyder, Homer P. Mfg. Co., Little Falls, N. Y.
Stafford & Holt, Little Falls, N. Y.
Wildman Mfg. Co. (Circular), Norristown, Pa.

Knitting Machines (Seamless)

American Knitting Machine Co., 56 N 6th, Phila., Pa.
Boss Knitting Machine Works, Reading, Pa.
Brinton, H. & Co. (For Hosiery & Underwear), 213 Race, Phila., Pa.
Mayo Knitting Machine & Needle Co. ("Acme" & "Hemphill"), Franklin Falls, N. H.
National Automatic Knitter Co. (Also Lace Effects), 1020 Susquehanna av, Phila., Pa.
Scott & Williams (Automatic Hosiery), 2079 E Cumberland, Phila., Pa.
Trump Bros. Machine Co., Wilmington, Del.

Knives (Textile)

(See Page 569)

Knotters (Spooler)

Barber, Colman Co., Rockford, Ill.

Labeling Machines

Automatic Pin Ticketing Mach. Co., Dayton, O.
Beck, C. Paper Co., 909 Chestnut, Phila., Pa.
F. & G. Novelty Co., 467 B'way, New York
Saranac Electrical Mfg. Co., St. Joseph, Mich

Labels (Underwear)

Jacobs, J. L. & M. Co., Elm sq bldg, New York

Lace Machines

Chauvet & Coulter, 247 Centre, New York
Lever, Oswald, Lehigh av c Mascher, Phila., Pa.
Lynwood Mfg. Co. (Ribbers), 2d & Westmoreland, Phila., Pa.
Sheppard, Jno. P., Salem, N. J.
Textile Finishing Machinery Co. (Bleaching & Finishlug), Providence, R. I.

Lacers (Automatic Lock & Loop Stitch)

Royle, John & Sons, Paterson, N. J.

Lappers

(See Openers & Lappers, Cotton)

Laundry Machinery

(See Index of Contents)

Lease Rods

American Enamel Co. (Enameled), Neville, Providence, R. I.
Berry & Johnston, 209 Bedford, Fall River, Mass.
Southern Spool & Bobbin Co. (Enameled), Greensboro, N. C.

Leathers (Lace)

Coupe, Wm. & Co. ("Excelsior" Rawhide), S. Attleboro, Mass.

Lifting Rod Cleaners

Draper Co. ("Shaw & Filinn's"), Hopedale, Mass.

Liquid Bleach Apparatus

National Laundry Machinery Co., Dayton, O.

Loom Attachments

American Textile Specialty Co., 143d & Rider av, New York
Asala Co., 415 B'way, New York
Beamen & Smith, Providence, R. I.
Brown Bros. Co., Providence, R. I.
Crompton & Knowles Loom Works, Worcester, Mass.

Eastwood, Benjamin Co., Paterson, N. J.
Lahue, M. M. & Co., 107 Cushing, Lowell, Mass.
Stafford Co., Readville, Mass.

Loom Crank Shafts

Babbitt Bros., Fairhaven, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.

Loom Forks

Brown Bros. Co., Providence, R. I.
English, C. R. Co., 301 Congress, Boston, Mass.
Non-Rebounding Loom Fork Co., Fall River, Mass.

Loom Frictions (Cork Insert)

National Brake & Clutch Co., 16 State, Boston, Mass.

Loom Harnesses

(See Harnesses, Loom)

Loom Knives

COES, LORING & CO. (Inc.), Worcester, Mass. (See adv. index, end of book)

Loom Lingoes

Hall, I. A. & Co., Paterson, N. J.

Loom Pickers

(See Pickers, Loom)

Loom Strapping

Abbott, J. V. Mfg. Co., Dedham, Mass.
American Supply Co., Providence, R. I.
Barker Bros., Norristown, Pa.
Barlow, John W. Co., Lawrence, Mass.
Brown Bros. Co., Providence, R. I.
Chicago Rawhide Mfg. Co., 75 E Ohio, Chicago, Ill.
Coupe, Wm., & Co., So. Attleboro, Mass.
Graton & Knight Mfg. Co., Worcester, Mass.
Helvetia Leather Co., Lancaster, Pa.
Jacobs, E. H. Mfg. Co., Danielson, Conn.
Kelton-Bruce Mfg. Co. (Rawhide), Salem, Mass.
Lahue, M. M. & Co. (Steel Lug Straps & Friction Bands for Warp Beams), Lowell, Mass.
Milliken, W. & Son, Franklin, Mass.
National Leather Mfg. Co., Niles, Mich.
New England Specialty Co., North Easton, Mass.
Page Belting Co., Concord, N. H.
Providence Belting Co., 25 Charles, Providence, R. I.
Weatherhead, Thompson & Co., Pawtucket, R. I.
Whiting, Henry F., Lowell, Mass.

Loom Temples

Crompton & Knowles Loom Works, Worcester, Mass.
Draper Co., Hopedale, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Loom Webs

(See Webbing)

Looms

Alvord, Clinton, 5 Summer, Worcester, Mass.
Amadon, S. B., Staffordville, Conn.
Crompton & Knowles Loom Works, Worcester, Mass.
Draper Co., Hopedale, Mass.
Eastwood, Benj. Co., Paterson, N. J.
Hughes & Russum (All Kinds), Fkd., Phila., Pa.
Insinger Co., Stenton av. above Wayne Junc., Phila., Pa.
Jackson, James & Son (Inc.), Paterson, N. J.
Jefferson, Edw. & Bro., 127 S 2d, Phila., Pa.
Kilburn, Lincoln & Co., Fall River, Mass.
Klein, Charles C., 2850 N Marshall, Phila., Pa.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Lowell Machine Shop, Lowell, Mass.
Lyall, J. & W., Passaic, N. J.
Mason Machine Works, Taunton, Mass.
Mutual Machine Works, Frankford, Phila., Pa.
Schaum & Uhlinger, No. Penn Junction, Phila., Pa.
Smith, H. B. Machine Co., Smithville, N. J. & 121 Liberty, New York
Stafford Co., Readville, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Voelmy Bros., 507 W 30th, New York
Whitin Machine Works, Whitinsville, Mass.
Wildmer Bros., 108 N 7th, Paterson, N. J.

Looms (Axminster)

Crompton & Knowles Loom Works, Worcester, Mass.
Whitin Machine Works, Whitinsville, Mass.

Looms (Bag)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Broad)

Draper Co., Hopedale, Mass.
Eastwood, Benj. Co., Paterson, N. J.
Lces, James & Sons Co., Bridgeport, Pa.
Mutual Machine Works, Frankford, Phila., Pa.

Looms (Carpet)

Crompton & Knowles Loom Works, Worcester, Mass.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Lyall, J. & W., 83 Leonard, New York.
Smith, H. B. Machine Co., Smithville, N. J. & 121 Liberty, New York
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Looms (Cassimere)

Crompton & Knowles Loom Works, Worcester, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

Looms (Cotton)

Crompton & Knowles Loom Works, Worcester, Mass.
Draper Co., Hopedale, Mass.
Fall River Foundry & Machine Co., Fall River, Mass.
Hughes & Russum, Frankford, Phila., Pa.
Kilburn, Lincoln & Co., Inc., Fall River, Mass.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.
Lowell Machine Shops, Lowell, Mass.
Mason Machine Works, Taunton, Mass.
Mutual Machine Works, Frankford, Phila., Pa.
Schaum & Uhlinger, Philadelphia, Pa.
Smith, H. B. Machine Co., Smithville, N. J. & 121 Liberty, New York
Stafford Co., Readville, Mass.
Whitin Machine Works, Whitinsville, Mass.
Woonsocket Machine & Press Co., Woonsocket, R. I.

Looms (Cotton Duck)

Lowell Machine Shop, Lowell, Mass.
Mutual Machine Works, Frankford, Phila., Pa.
Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.

Looms (Curtain)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Dress Goods)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Embroidery)

Walther, Otto (Mrs.' Agent), Bourse bldg, Phila., Pa.

Looms (Fancy)

Crompton & Knowles Loom Works, Worcester, Mass.
Hughes & Russum, Fkd., Phila., Pa.
Kilburn, Lincoln & Co., Inc., Fall River, Mass.
Mason Machine Works, Taunton, Mass.
Stafford, Geo. W. Co., Readville, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Looms (Felting)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Gingham)

Crompton & Knowles Loom Works, Worcester, Mass.
Draper Co., Hopedale, Mass.
Kilburn, Lincoln & Co., Fall River, Mass.

Looms (Goring)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Jacquard)

Crompton & Knowles Loom Works, Worcester, Mass.
Eastwood, Benj. Co., Paterson, N. J.
Halton's, Thos. Sons, Phila., Pa.
Jackson, James & Sons, Inc., Paterson, N. J.
Kilburn, Lincoln & Co., Fall River, Mass.
Mutual Machine Works, Frankford, Phila., Pa.

Looms (Jean)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Jute Carpet)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Pile Fabric)

Klein, Chas. C., 2850 N Marshall, Phila., Pa.

Looms (Plush)

Crompton & Knowles Loom Works, Worcester, Mass.

Mutual Machine Works, Frankford, Phila., Pa.

Looms (Ribbon)

Crompton & Knowles Loom Works, Worcester, Mass.

Schanm & Uhlinger, N 2d & Glenwood av, Widmer Bros., Paterson, N. J. Phila., Pa.

Looms (Rug)

Crompton & Knowles Loom Works, Worcester, Mass.

Reed Mfg. Co., Springfield, O.

Looms (Silk)

Crompton & Knowles Loom Works, Worcester, Mass.

Eastwood, Benj., Co., Paterson, N. J. Mass.

Hughes & Russum, Fkd., Phila., Pa.

Kilburn, Lincoln & Co., Inc., Fall River, Mass.

Mason Machine Works, Taunton, Mass.

Royle, John & Sons ("Delaske"), Paterson, N. J.

Stafford Co., Readville, Mass.

Looms (Suspender)

Atherton Machine Co., Paterson, N. J.

Crompton & Knowles Loom Works, Worcester, Mass.

Schaum & Uhlinger, N 2d & Glenwood av, Phila., Pa.

Looms (Upholstery)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Velvet)

Crompton & Knowles Loom Works, Worcester, Mass.

Looms (Webbing)

Atherton Machine Co., Paterson, N. J.

Crompton & Knowles Loom Works, Worcester, Mass.

Kilburn, Lincoln & Co., Fall River, Mass.

Looms (Woolen)

Crompton & Knowles Loom Works, Worcester, Mass.

Hughes & Russum, Fkd., Phila., Pa.

Leigh, Evan Arthur, 232 Summer, Boston, Mass.

Mutual Machine Works, Frankford, Phila., Pa.

Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.

Looms (Worsted)

Crompton & Knowles Loom Works, Worcester, Mass.

Hughes & Russum, Fkd., Phila., Pa.

Leigh, Evan Arthur, 232 Summer, Boston, Mass.

Woonsocket Machine & Press Co., Woonsocket, R. I.

Lcopers

Beattie Machine Works, Cohoes, N. Y.

Grosser Knitting Mach. Co., 260 W. B'way, New York

Hepworth, Jno. W. & Co., Phila., Pa.

Leighton Machine Co., Manchester, N. H.

Scott & Williams, 2079 E Cumberland, Phila., Pa.

Southern Textile Machinery Co., Paducah, Ky.

Ward & McLean ("American"), Lockport, N. Y.

Lubricators (Yarn)

Star Automatic Yarn Lubricator Co., Howard & Palmer, Philadelphia, Pa.

Lug Straps

Black Diamond Lug Strap Co., Reading, Pa.

Bond, Chas., Phila., Pa.

Chicago Rawhide Mfg. Co. (Rawhide), 75 E Ohio, Chicago, Ill.

Houghton, E. F. Co. ("Houghton's" Patent Rockers), 240 W Somerset, Phila., Pa.

Jacobs, E. H. Mfg. Co. ("Crescent," "Eclipse," "Star"), Danielson, Conn.

Kelley, W. H. & Co., Reading, Pa.

Milliken, W. & Son (Duck, Ticking & Leather), Franklin, Mass.

Lumpers

Clark Machine & Foundry Co., Franklin, Mass.

Gerry, Geo. & Son, Athol, Mass.

Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

Mails (Brass & Steel)

Ulrich & Co., Paterson, N. J.

Walder, Jacob, Paterson, N. J.

Mechanical Draft

(See Page 771)

Mercerizing Machines

Birch Bros., Somerville, Mass.

Butterworth, H. W. & Son Co., Phila., Pa.

Continuous Process Machine Co. ("Shuman"), Torresdale, Phila., Pa.

Klauder-Weldon Dyeing Machine Co., Amsterdam, N. Y.

Smith, Drum & Co., 2501 Coral, Phila., Pa.

Textile Finishing Machinery Co. (Cloth or Yarn), Providence, R. I.

Mill Soaps

American Soap & Washoline Co., Cohoes, N. Y.

Dobbins Soap Mfg. Co., 119 S. 4th, Phila., Pa.

Draper, J. O. & Co., Pawtucket, R. I.

Eavenson, J. & Sons, 318 N. 20th, Phila., Pa.

Farrington, W. U. (Est. of), E. Greenwich, R. I.

Fox, Chas. J., 313 S Philip, Phila., Pa.

Hersem, Thos., & Co., New Bedford, Mass.

Holbrook Mfg. Co., 470 Washington, New York

India Alkali Wks., Boston, Mass.

Marseilles Castile Soap Works, 34 Front, New York

National Soap Mfg. Co., 2402 Montgomery av, Phila., Pa.

Nicetown Mfg. Co., 4301 N. 18th, Phila., Pa.

O. K. Soap Co., 968 Franklin, Phila., Pa.

Providence Sizing Co., Providence, R. I.

Rome Soap Mfg. Co., Rome, N. Y.

Starace, A. (Importer), 76 Pearl, New York

Warren Soap Mfg. Co., 77 Summer, Boston, Mass.

White & Bagley Co., Worcester, Mass.

Woodley Soap Mfg. Co., 37 Norfolk av, Rox, Boston, Mass.

Mill Supplies (Textile)

(See Mill & Factory Supplies)

Mill Wire Goods

(See Drop Wires, also Guide Wires)

Moistening Apparatus (Air)

Aero Cooling & Humidifying Co., 88 Broad, Boston, Mass.

American Moistening Co., 79 Milk, Boston, Mass.

Carrier Air Conditioning Co. of America, 39 Cortlandt, New York

Garland Mfg. Co., Saco, Me.

Green Fuel Economizer Co., Matteawan, N. Y., & 1218 West St. bldg, New York

Smith & Furbush Machine Co., Phila., Pa.

Sturtevant, B. F. Co., Hyde Park, Mass.

THOMAS & SMITH (Inc.), 17 S. Carpenter, Chicago, Ill., & 288 Hudson, New York. (See adv. index, end of book)

Turner, J. S. Mfg. Co., Lowell, Mass.

Motions (Bobbin Stop)

Howard & Bullough Am. Machine Co., Pawtucket, R. I.

Motions (Doffer Comb)

Barker, Jas., 6th c Cayuga, Phila., Pa.

Whittle, Jas. H., Worcester, Mass.

Motions (Drawing Frame Stop)

Howard & Bullough, American Machine Co. (Ltd.), Pawtucket, R. I.

Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Motions (Evener)

Lowell Machine Shop, Lowell, Mass.

Saco & Pettie Machine Works, Newton Upper Falls, Mass.

Motions (Knitting Machine Stop)

Crawford Mfg. Co., New Brunswick, N. J.

Forry, I. W., West Reading, Pa.

Nye & Tredick, 606 Arch, Phila., Pa.

Ruth Machine Co., York, Pa.

Wildman Mfg. Co., Norristown, Pa.

Motions (Loom Stop)

Draper Co., Hopedale, Mass.

Motions (Selvage)

Crompton & Knowles Loom Works, Worcester, Mass.

Motions (Spooler Stop)

Curry, Albert & Co., 102 Friendship, Providence, R. I.

Fall River Foundry & Machine Co., Fall River, Mass.

Lowell, Machine Shop, Lowell, Mass.

Motions (Twister Stop)

Draper Co. ("Smith's"), Hopedale, Mass.

Motions (Warp Stop)

American Textile Appliances Co., 79 Milk, Boston, Mass.

Coldwell-Gildard Co. ("C. & G."), Fall River, Mass.

Draper Co., Hopedale, Mass.

Kip-Armstrong Co. (Electrical), 260 W B'way, New York

Mossberg Wrench Co. ("Kip Armstrong" Electric), Central Falls, R. I.

Stafford Co., Readville, Mass.

Mule Attachments

Ames Plow Co., Quincy Hall, Boston, Mass.

Bagshaw, W. H. (Est. of), Lowell, Mass.

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.

Selfert, C. H., 158 York, Phila., Pa.

Whittle, James H., Worcester, Mass.

Mules (Cotton)

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.

Firth, Wm. Co. (Asa Lees & Co., Ltd.), 79 Milk, Boston, Mass.

Leigh, Evan Arthur ("Platt"), 232 Summer, Boston, Mass.

Lowe, Stephen C., 186 Devonshire, Boston, Mass.

Lowell Machine Shop, Lowell, Mass.

McKerrow, H. G., & Co., 31 State, Boston, Mass.

Mason Machine Works, Taunton, Mass.

Riley, C. E. & Co. ("Threlfall" Self-Acting), 65 Franklin, Boston, Mass.

Mules (Self-Acting)

Firth, Wm. Co. (Asa Lees & Co., Ltd.), 179 Milk, Boston, Mass.

Lowe, Stephen C. (Hetherington & Curtis patterns), 186 Devonshire, Boston, Mass.

McKerrow, H. G. & Co., 31 State, Boston, Mass.

Mason Machine Works, Taunton, Mass.

Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Smith, Jas., Woolen Machinery Co. (English & Moulton Styles), 411 Race, Phila., Pa.

Smith & Furbush Mach. Co. ("Furbush"), Hancock & Somerset, Phila., Pa.

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Mules (Woolen)

Johnson & Bassett, Worcester, Mass.

Leigh, Evans Arthur ("Platt"), 232 Summer, Boston, Mass.

Lowe, Stephen C., 186 Devonshire, Boston, Mass.

Riley, C. E. & Co. (Self-Acting), 65 Franklin, Boston, Mass.

Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.

Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Mules (Worsted)

Birch Bros., Somerville, Mass.

Borchers, Rich'd O. & Co., Womrath & Tackawanna, Fkd., Phila., Pa.

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.

Firth, Wm. Co. (Asa Lees Co., Ltd.), 79 Milk, Boston, Mass.

Leigh, Evans Arthur ("Platt"), 232 Summer, Boston, Mass.

Riley, C. E. & Co. (Self-Acting), 65 Franklin, Boston, Mass.

Napping Machines

Ardrey, S. B. & Sons, Bristol, Pa.

Birch Bros., Somerville, Mass.

Borchers, Rich'd O. & Co., Womrath & Tackawanna, Fkd., Phila., Pa.

Curtis & Marble Machine Co., Worcester, Mass.
Davis & Furber Machine Co., North Andover, Mass.
Gessner, David, 172 Union, Worcester, Mass.
Jones, Lewis, 60½ Media, Phila., Pa.
McCreary, Edw., Cohoes, N. Y.
Parks & Woolson Machine Co., Springfield, Vt.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Whittle, Jas. H., Worcester, Mass.
Woonsocket Napping Machinery Co., Woonsocket, R. I.

Neck Marking Machines

Kennedy, Thos., Cohoes, N. Y.
Utica Novelty & Mill Specialty Co., Utica, N. Y.

Needles (Comber)

Bragg, John I., 24 Atwood, Olneyville, R. I.
Crabb, Wm. & Co., Newark, N. J.
Dean, Jno. M., Lowell, Mass.
Tompkins Bros. Co., Troy, N. Y.
Townsend, Thos., 157 Orange, Providence, R. I.

Needles (Crochet Machine)

Klein, M. & Bro. ("M-K & B") Sun Nickel Plated Steel & Wooden, Bridgeport, Conn.
Morrow Machine Co., Hartford, Conn.

Needles (Knitting Machine)

Adams, G. H. & Co., Hill, N. H.
Ames, D. J., Philmont, N. Y.
Beskert Needle & Supply Co., 5921 Green, Gtn., Phila., Pa.
Branson Mach. Co., 506 N American, Phila., Pa.
Brinton, H. & Co., 213 Race, Phila., Pa.
Cooper, Chas., Bennington, Vt.
Corey, Wm. Co., Manchester, N. H.
Dodge Needle Co., Manchester, N. H.
Excelsior Needle Co., Torrington, Conn.
Ives Loyal T., New Brunswick, N. J.
Jarrard Needle Works, New Brunswick, N. J.
Lydall & Folds Paper Co., Manchester, Conn.
Manufacturers' Supplies Co., 418 Arch, Phila., Pa.
Mayo Knitting Machine & Needle Co., Franklin, N. H.
Page Needle Co., Chicopee Falls, Mass.
Tioga Needle Mfg. Co., 3539 N Marshall, Phila., Pa.
Treat, Orion ("Balmoral"), Manchester Green, Conn.
Wardwell Needle Co., Lakeport, N. H.

Needles (Latch)

Adams, Geo. H. & Co., Hill, N. H.
Continental Latch Needle Co., 120 Liberty, New York
Cooper, Chas., Bennington, Vt.
Corey, Wm. Co., Manchester, N. H.
Dodge Needle Co., Manchester, N. H.
Excelsior Needle Co., Torrington, Conn.
Franklin Needle Co., Franklin, N. H.
Lamb Knitting Mfg. Co., Chicopee Falls, Mass.
Mayo Knitting Machine & Needle Co., Franklin, N. H.

Needles (Sewing Machine)

Eastham, Henry W., Lynn, Mass.
Excelsior Needle Co., Torrington, Conn.
National Needle Co., Springfield, Mass.
Singer Sewing Machine Co., 149 B'way, New York

Needles (Spring Knitting)

American Spring Needle Works, New Britain, Conn.
Ames, David J. & Co., Philmont, N. Y.
Cooper, Chas., Bennington, Vt.
Crane Bros., Westfield, Mass.
Crane Mfg. Co., Lakeport, N. H.
Dunz, Miller Cohoes, N. Y.
Ives, Loyal T., New Brunswick, N. J.
Jarrard Needle Works, New Brunswick, N. J.

Numbering Machines (Repeater)

Royle, John & Sons, Paterson, N. J.

Openers & Feeders (Wool Washer)

Harwood, Geo. S. & Son, 53 State, Boston, Mass.

Openers & Lappers (Cotton)

Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
Kltson Machine Co., Lowell, Mass.

Leigh, Evan Arthur ("Platt"), 232 Summer, Boston, Mass.
Lowe, Stephen C., 186 Devonshire, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith & Furbush Machine Co., Phila., Pa.
Whitin Machine Works, Whitinsville, Mass.

Overseaming Machines

(See Sewing Machines)

Oxidizing Machines

American Drying Machinery Co., 3301 N. 19th, Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Germantown av., Phila., Pa.
Rothe, O. & P. Mfg. & Supply Co., Norristown, Pa.

Padding Machines

Butterworth, H. W. & Sons Co., Phila., Pa.
Textile Finishing Machinery Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

Piano Machines

Royle, John & Sons, Paterson, N. J.
Schaum & Uhlinger, N. 2d & Glenwood av., Phila., Pa.

Picker Leather

Booth & Co., 88 Gold, New York
Chicago Rawhide Mfg. Co. ("Rawhide"), 75 E Ohio, Chicago, Ill.
Coupe, Wm., & Co. ("Excelsior" Raw Hide), S. Attleboro, Mass.
Helvetia Leather Co., Lancaster, Pa.
Holbrook Rawhide Co., Providence, R. I.
Houghton, E. F. & Co. ("Vim"), 240 W Somerset, Phila., Pa.
Norwich Belt Mfg. Co. ("Tan-Bo" Rawhide), Norwich, Conn.
Page Belting Co., Concord, N. H.
Pechin, John W., 31 S. 3d., Phila., Pa.
Popham, Henry, & Son ("Black English"), Newark, N. J.
Shultz Belting Co., 402 Barton, St. Louis, Mo.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Western Rawhide & Belting Co. ("Rawhide"), Milwaukee, Wis.

Picker Parts

Crabb, Wm. & Co., Newark, N. J.
Dodge, Chas. G., Lowell, Mass.

Picker Pins

Bagshaw, W. H. (Est. of), Lowell, Mass.
Dodge, C. S. (Hot Forged), Lowell, Mass.
Stott, Sam'l E. & T., Lowell, Mass.

Picker Rod Springs

Loom Picker Co., Blddeford, Me.

Picker Sticks

Brusher, J. B., Norristown, Pa.
Coburn, Fred. S., 243 Main, Providence, R. I.
Horn, Jas., Horn's Mills, N. H.
Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
Loveland, L. H., Jr., Rumney, N. H.
Montgomery Lumber & Mfg. Co. (In Quantities), Montgomery, Ala.
Nashua Spool & Bobbin Co. (Hickory), Journal bldg, Boston, Mass.
New England Shuttle Co., 64 Leverett, Lowell, Mass.
Southern Spool & Bobbin Co. (Hickory), Greensboro, N. C.
Tatem, J. B. & Son, Putnam, Conn.

Picker Teeth

Crabb, Wm. & Co., Newark, N. J.
Keystone Drop Forge Works, Chester, Pa.

Pickers (Burr)

Brown Cotton Gin Co. ("Parkhurst"), New London, Conn.
Curtis & Marble Machine Co. ("Goddard"), Worcester, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Smith, James, Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.

Pickers (Cotton)

American Cotton Picker Co., 29th & Smallman, Pittsburg, Pa.
Clark Machine & Fdy. Co., Franklin, Mass.
Curtis & Marble Mach. W'ks, Worcester, Mass.
Garland Mfg. Co., Saco, Me.
Holbrook Rawhide Co., Providence, R. I.
Smith & Furbush Machine Co. ("Furbush"), Philadelphia, Pa.
Schofield, Wm. Co., Manayunk, Phila., Pa.
Whitin Mach. Co., Whitinsville, Mass.
Whittle, James H., Worcester, Mass.

Pickers (Cotton Filled)

Wilkins Mfg. Co., Woonsocket, R. I.

Pickers (Hair)

Bean, Walter N., Stoneham, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Day, J. H. Co., 1144 Harrison av., Cincinnati, Ohio
Ersham, J. B. & Sons' Mfg. Co., Enterprise, Kans.
Smith & Furbush Machine Co. (Improved Opener & Cleaner), Phila., Pa.

Pickers (Loom)

Abbott, J. V. Mfg. Co., Dedham, Mass.
Akron Belting Co. (Leather), Akron, O.
American Picker & Strapping Co., Providence, R. I.
Barlow, John W. Co., Lawrence, Mass.
Brown Bros. Co., Providence, R. I.
Coburn, Fred S., 243 Main, Woonsocket, R. I.
Coupe, Wm., & Co., So. Attleboro, Mass.
Crane Bros., Westfield, Mass.
Crompton & Knowles Loom Works, Worcester, Mass.
Garland Mfg. Co., Saco, Me.
Holbrook Rawhide Co., Providence, R. I.
Houghton, E. F. & Co., 240 W Somerset, Phila., Pa.
HUDSON BELTING CO. (Leather), Worcester, Mass. (See adv. index, end of book)
Jacobs, E. H. Mfg. Co. ("Northrop," "XXCY," "Surpass WX," "B. G. D.," "Daisy"), Danielson, Conn.
Kimball, L. S., Lowell, Mass.
Milliken, W. & Son, Franklin, Mass.
Parkinson, E. Co., Saronville, Mass.
Pickles, Joseph, New Bedford, Mass.
Smith, Jas., & Co., 411 Race, Phila., Pa.
Union Belt Co., Fall River, Mass.
Wilkins Mfg. Co., 14 S Main, Woonsocket, R. I.
Williams, J. H. Co., Utica, N. Y.

Pickers (Mixing)

Brown Cotton Gin Co., New London, Conn.
Clark Machine & Foundry Co., Franklin, Mass.
Curtis & Marble Machine Co., Worcester, Mass.
Smith & Furbush Mach. Co., Hancock & Somerset, Phila., Pa.
Whittle, Jas. H., Worcester, Mass.

Pickers (Rag or Shoddy)

Clark Machine & Fdy. Co., Franklin, Mass.
Dodge, C. S., Lowell, Mass.
Gerry, Geo. & Son, Athol, Mass.
Kitson Machine Co., Lowell, Mass.
Lombard Machine Co., Worcester, Mass.
Schofield, Wm. Co., Manayunk, Phila., Pa.
Smith, Jas., Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Proctor"), Phila., Pa.
Stott, S. E. & T., Lowell, Mass.

Pickers & Cleaners (Stock)

Smith, Jas. Woolen Mach. Co., 411 Race, Phila., Pa.

Pin Tickets

Eastern Pin Ticket & Tag Co., Perkaskie, Pa.
Steinthal, H. & Co., 267 W. B'way, New York

Pins (Cast Steel)

Hood, R. H. ("English"), 1842 Germantown av., Phila., Pa.

Plaiting & Fluting Machines

Ahlstrom, O. J., 711 B'way, New York
Dubrow & Hearn Mfg. Co., 12 Wooster, New York

Power Transmitting Machinery

(See Page 655)

Press Papers & Boards

Case Brothers, Highland Park, Conn.
HEWITT, C. B. & BROS., 49 Beek-
 man, New York. (See adv. index, end
 of book)
 Merwin Paper Co., Hartford, Conn.
 Wolf Bros., 330 N 12th, Philadelphia, Pa.

Press Plates

Whittle, Jas. H., Worcester, Mass.

Pressers & Flyers

Baker Mach. Co. (Inc.), New Bedford, Mass.

Presses (Cloth)

Spence & Rideout (Power Presses with Hollow
 Seam Plates & Connections), Nashua, N. H.
 United States Hoffman Co., Syracuse, N. Y.

Presses (Cloth, Rotary Steam)

Curtis & Marble Machine Co., Worcester, Mass.
 Voelker, Geo. W. & Co., Woonsocket, R. I.
 Wilbur Press & Machine Co., Woonsocket,
 R. I.
 Woonsocket Machine & Press Co., Woonsocket,
 R. I.

Presses (Cotton)

(See Page 873)

Presses (Knit Goods)

COHOES IRON FOUNDRY & MA-
 chine Co., Cohoes, N. Y. (See adv. index,
 end of book)

Presses (Steam)

Hart, Chas., 4617 Hedge, Fkd., Phila., Pa.

Presses (Tincture)

Johnson Fdry. & Mach. Wks. ("Yale"), Battle
 Creek, Mich.

Presses (Warp)

Liddell Co., Charlotte, N. C.

Pumicing Machines (Worsted)

Curtis & Marble Machine Co., Worcester,
 Mass.

Quillers

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
 Atherton Machine Co. (For Silk Mills), Pater-
 son, N. J.
 Atwood-Morrison Co., Stonington, Conn.
 Crompton & Knowles Loom Works, Worcester,
 Mass.
 Eastwood, Benj. Co. ("Silk"), Paterson, N. J.
 Payne, G. W. Co. (Upright), Pawtucket, R. I.
 Rhode Island Braiding Machine Co., Providence,
 Royle, Jno. & Sons, Paterson, N. J.
 Whitin Machine Works ("Long Chain"), Whit-
 insville, Mass.

Quills

Hall, I. A. & Co., Paterson, N. J.
 Ulrich & Co., Paterson, N. J.

Railway Heads

Fall River Mach. Co., Fall River, Mass.
 Draper Co., Hopedale, Mass.
 Fall River Foundry & Machine Co., Fall River,
 Mass.
 Lowell Machine Shop, Lowell, Mass.
 Mason Machine Works, Taunton, Mass.
 Saco & Pettee Machine Shops, Newton Upper
 Falls, Mass.
 Whitin Machine Works, Whitinsville, Mass.

Rashel Machines

Grosser Knitting Machine Co., 260 W B'way,
 New York

Ravelers

American Raveler Co., Philmont, N. Y.
 Union Raveler Co., 519 River, Troy, N. Y.

Raveling Machines (Yarn)

Taylor, Jas., 835 Arch, Phila., Pa.

Reeds

Allentown Reed, Harness & Mill Supply Co.,
 Allentown, Pa.
 American Supply Co. (Loom), Providence,
 R. I.
 Andrews' Loom Reed & Harness Works, Spar-
 tenberg, S. C.

Baldwin, Jas. Co., Manchester, N. H.
 Berry & Johnston, Fall River, Mass.
 Blackstone Reed & Harness Co., Pawtucket,
 Carruthers, Robt., Lowell, Mass.
 Craigh, William & Co., Newark, N. J.
 Craig & Scott, Lewiston, Me.
 Draper Co., Hopedale, Mass.
 Emmons Loom Harness Co., Lawrence, Mass.
 Excelsior Loom Reed Works, Pawtucket, R. I.
 Fitzgerald Loom Reed Co., N 2d & Diamond,
 Phila., Pa.
 Gibbs Loom, Harness & Reed Co., Clinton,
 Mass.
 Gowdey, J. A. Reed & Harness Mfg. Co., Prov-
 idence, R. I.
 Hall, I. A., Paterson, Pa.
 Hayes Loom, Reed & Harness Co., Woonsocket,
 R. I.

Heywood Bros. & Wakefield Co., Gardner, Mass.
 Littlefield & Sawyer, Saco, Me.
 Luther Reed Mfg. Co., Fall River, Mass.
 McGregor & Sons, Fall River, Mass.
 Paterson Reed & Harness Co., Paterson, N. J.
 Southern Card Clothing & Reed Co., Char-
 lotte, N. C.
 Stewart & Sons, 1627 N. Mascher, Phila., Pa.
 Street, R. R. & Co., 184 Washington, Chicago,
 Ill.
 Tilley, Norris, 49 Taylor, Springfield, Mass.
 Ulrich & Co., Paterson, N. J.
 Walder, J., Paterson, N. J.
 Walker Mfg. Co., 191 Zerkes, Phila., Pa.
 Whittle, Jas. H., Worcester, Mass.
 Wilkins Mfg. Co., Woonsocket, R. I.
 Williams, J. H. Co., Utica, N. Y.

Reels

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
 Atherton Machine Co. (Power for Silk Mills),
 Paterson, N. J.
 Draper Co., Hopedale, Mass.
 Lever, Oswald, Lehigh av c Mascher, Phila.,
 Pa.
 Firth, Wm. Co. ("Stubbs"), 79 Milk, Boston,
 Mass.
 Hopedale Machine Co., Hopedale, Mass.
 Lindsay, Hyde & Co., 2124 E. York, Phila.,
 Pa.
 Lowell Machine Shop, Lowell, Mass.
 Luther, Chas. A. & Co., Pawtucket, R. I.
 Nashua Spool & Bobbin Co., Journal bldg,
 Boston, Mass.
 Saco & Pettee Machine Shops, Newton Upper
 Falls, Mass.
 Sipp Electric & Machine Co., Paterson, N. J.
 Smith, Jas. Woolen Machine Co., 411 Race,
 Phila., Pa.
 Textile Machine Works, Reading, Pa.
 Whitin Machine Works, Whitinsville, Mass.
 Whittle, James H., Worcester, Mass.

Reels (Skeining & Measuring)

Rhode Island Braiding Machine Co., Provid-
 ence, R. I.

Reels (Yarn)

Brown & Sharpe Mfg. Co., Providence, R. I.
 Carpenter, Orville, Pawtucket, R. I.
 Diamond Textile Machine Works, C & West-
 moreland, Phila., Pa.
 Draper Co., Hopedale, Mass.
 Firth, Wm. Co. (Goodbrandt & Co.), 79 Milk,
 Boston, Mass.
 Lever, Oswald, Lehigh av c Mascher, Phila.,
 Pa.
 Luther, Chas. A. & Co., Pawtucket, R. I.
 Saco & Pettee Mach. Shops, Newton, Upper
 Falls, Mass.
 Smith, Jas., Woolen Machinery Co., 311 Race,
 Phila., Pa.
 Whitin Machine Works, Whitinsville, Mass.
 Whittle, James H., Worcester, Mass.

Rib Cutting & Folding Machines

Cooper, Chas. (Automatic), Bennington, Vt. &
 Amsterdam, N. Y.

Roll Coverers

Aubertin, Jos. F., New Bedford, Mass.
 Barlow, Jno. W. Co., Lawrence, Mass.
 Bridge, Jno., Chester, Pa.
 Burnham, E. E. Co., Lawrence, Mass.
 Cummings, Geo. & Son, 29 Rowers, Fall River,
 Dickey, H. H. & Son, Lewiston, Me.
 Fitchburg Top Roll Covering Co., Fitchburg,
 Mass.
 Hathaway, O. H., Jr., Central Falls, R. I.
 Holyoke Machine Co., Holyoke, Mass.
 Hood, H. R., 1842 Gtn. av. Phila., Pa.
 Houghton, E. F. & Co. ("Vici Leather"), 240
 Somerset, Phila., Pa.
 Lakey, C. T., Georgiaville, R. I.
 Nicholas Top Roll Covering Co., Phenix, R. I.

Nichols & Godfrey, North Adams, Mass.
 North Chelmsford Machine & Supply Co.,
 North Chelmsford, Mass.
 Pechin, John W., 31 S 3d, Phila., Pa.
 Prentice, Chas. W., Taftville, Conn.
 Skinner, C. E. & J. F., Valley Falls, R. I.
 Taylor & Co., Spartanburg, S. C.
 Tripp, Jno. & Co., Lowell, Mass.
 Turner, J. S. Mfg. Co., Lowell, Mass.
 Union Belt Co., Fall River, Mass.
 Walnwright, R., Westpoint, Ga.
 Wetherell, Orrin B. & Son, Fall River, Mass.

Roll Coverers' Tools

American Supply Co., Providence, R. I.
 Dennis, Jno. & Co., Lowell, Mass.

Roller Covering Machines

Turner, J. S. Mfg. Co. ("Turner's" Worsted),
 Lowell, Mass.

Roller Leather

English, C. R. Co., 301 Congress, Boston, Mass.
 Houghton, E. F. & Co. ("Vim"), 240 W Somer-
 set, Phila., Pa.

Roller Skins

Firth, Wm. Co. (Kershaw & Sons), 79 Milk,
 Boston, Mass.
 Kimball & Brown, Manchester, N. H.
 Spencer, Wilton H., Providence, R. I.
 Stone, C. Moulton Co., 456 Benefit, Provid-
 ence, R. I.

Rollers (Copper Printing)

Rome Metal Co., Rome, N. Y.
 Taunton-New Bedford Copper Co., Taunton,
 Mass., & New Bedford, Mass.
 Textile Finishing Machy. Co., Providence,
 R. I.

Rolls (Card Feed)

(See also Feeds)

Adams, J. J. & M. J., 46 Leverett, Lowell,
 Mass.
 Curtis & Marble Machine Co., Worcester, Mass.
 Fall River Foundry & Machine Co., Fall River,
 Mass.
 Harwood, Geo. S. & Son, 53 State, Boston,
 Mass.
 Hood, R. H. ("Harding's" Intersecting), 1842
 Gtn av, Phila., Pa.
 Kenyon, D. R. & Son, Raritan, N. J.
 Smith & Furbush Machine Co. (Metallic),
 Phila., Pa.
 Textile Finishing Machinery Co., 17 Exch. pl
 Providence, R. I.

Rolls (Fluted)

NIAGARA MACHINE & TOOL WKS.
 Buffalo, N. Y. (See adv. index, end of book)
 Providence Machine Co., Providence, R. I.
 Riley, C. E., & Co., 65 Franklin, Boston, Mass.
 Thurston, A. G. & Son, Fall River, Mass.

Rolls (Hand Banding)

Whitcomb Mfg. Co., Worcester, Mass.

Rolls (Immersion)

Whittle, James H. (Copper), Worcester, Mass.

Rolls (Metallic Drawing)

Metallic Drawing Roll Co., Indian Orchard,
 Mass.

Rolls (Rub, for Finishers)

Whittle, James H. (Tin), Worcester, Mass.

Rolls (Size)

Whittle, James H. (Copper), Worcester, Mass.

Rolls (Temple)

Draper Co., Hopedale, Mass.

Roving Cans

American Vulcanized Fibre Co. (Laminar Fibre
 & "Sullivan" Seamless Manila Fibre), 1017
 Market, Wilmington, Del.
 Diamond State Fibre Co., Elsmere, Del.
 Fiore Mfg. Co., 32 Howard, New York
 Hill, Jas. Mfg. Co., Providence, R. I.
 N. E. Ventilating & Heating Co., Providence,
 R. I.

Spaulding, J. & Sons Co., North Rochester, N. H.
 Spaulding-Perkins Co. (Fibre), No. Rochester, N. H.
 Whittle, James H., Worcester, Mass.

Saddle Boxes

Hood, R. H., 1842 Gtn av, Phila., Pa.

Saddles

Arguto Oilless Bearing Co., 149 Berkley, Phila., Pa.
 Dixon Lubricating Saddle Co., Bristol, R. I.

Sample Card Machines

American Numbering Machine Co. (Numbering), 291 Essex, Brooklyn, N. Y.
 Cummings-Angelum Machine Co., 320 B'way, New York

Sanding Machines

Curtis & Marble Machine Co., Worcester, Mass.
 Parks & Woolson Machine Co., Springfield, Vt.

Scales (Band Tension)

Draper Co., Hopedale, Mass.

Scales (Garment, Lever Balance)

Sweet & Doyle, Cohoes, N. Y.

Scales (Yarn)

Draper Co., ("Schaer's," also "Schaer's Template & Cloth Calculator"), Hopedale, Mass.
 Fairbanks Co., Broome & Elm, New York
 Sweet & Doyle, Cohoes, N. Y.

Scales (Yarn & Roving)

Sweet & Doyle, Cohoes, N. Y.

Scallop Machines

Merrow Machine Co., Hartford, Conn.
 National Automatic Knitter Co., 724 Cherry, Phila., Pa.

Scarfig Machines

Luther, C. A. & Co., Pawtucket, R. I.

Scouring Machines (Wool)

Butterworth, H. W. & Sons Co., 2415 E. York, Phila., Pa.
 Hunter, James Machine Co., North Adams, Mass.
 Klauder-Weldon Dyeing Machine Co., Amster-dam, N. Y.
 Lorlmer, Jno. H., Walnut la, Gtn., Phila., Pa.
 Riley, C. E., & Co., 65 Franklin, Boston, Mass.
 Smith, Jas., Woolen Machinery Co., Phila., Pa.

Scouring Machines (Yarn)

American Drying Machinery Co., Westmoreland & P. & R. Ry., Phila., Pa.
 Phila. Drying Machinery Co., 6721 Germantown av, Phila., Pa.
 Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.

Screens (Card)

New England Ventilating & Heating Co., Providence, R. I.

Separators (Spinning Frame)

Draper Co. ("Rhoades-Chandler"), Hopedale, Mass.

Sewing Machines

(See Index of Contents)

Shafting

(See Page 1012)

Shearing Machines (Textile)

Butterworth, H. W. & Sons Co., Phila., Pa.
 Curtis & Marble Machine Co., Worcester, Mass.
 Parks & Woolson Machine Co., Springfield, Vt.

Shearing & Brushing Machine (Combined)

Curtis & Marble Machine Co., Worcester, Mass.

Shoddy Machinery

Kitson Machine Co., Lowell, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Shuttle Blocks

Cox, J. Elwood, Highpoint, N. Y.
 Hardwood Specialty Co., end of Main, Memphis, Tenn.
 Wood, A. C., Advance, N. S.

Shuttle Eyes

Mitchell-Blissell Co., 227 Fulton, New York

Shuttle Guards

Crompton & Knowles Loom Works, Worcester, Mass.
 Draper Co. ("Sullivan"), Hopedale, Mass.

Shuttle Irons

Litchfield Shuttle Co., Southbridge, Mass.
 Marble, E. W., Wilkinsville, Mass.
 New England Shuttle Co., 64 Leverett, Lowell, Mass.
 Richardson & Bottomley, West Mansfield, Mass.
 Woonsocket Shuttle Co., Woonsocket, R. I.

Shuttle Threaders

Lahue, M. M. & Co., 107 Cushing, Lowell, Mass.

Shuttles

American Supply Co., Providence, R. I.
 Billington, Jas. H. & Co., Phila., Pa.
 Coburn, Fred S., 243 Main, Woonsocket, R. I.
 Dudley, D. T. & Son, Wilkinsville, Mass.
 Dudley, S. A., Taunton, Mass.
 Griggs Mfg. Co., Lincoln, N. C.
 Hall, I. A. & Co., Paterson, N. J.
 Litchfield Shuttle Co., Southbridge, Mass.
 Lowell Shuttle Co., Lowell, Mass.
 Nashua Spool & Bobbin Co., Journal bldg, Boston, Mass.
 New England Shuttle Co., 64 Leverett, Lowell, Mass.
 New Bedford Shuttle Co., New Bedford, Mass.
 Parkinson, E. Co., Saxonville, Mass.
 Sergeson, R. & Co., 1704 Tulip, Phila., Pa.
 Shambow Shuttle Co., Woonsocket, R. I.
 Southern Shuttle & Bobbin Co., Greensboro, N. C.
 Taunton Spindle Co., Taunton, Mass.
 Ulrich & Co., Paterson, N. J.
 Union Shuttle Co., Lawrence, Mass.
 U. S. Bobbin & Shuttle Co., Providence, R. I.
 Vermont Spool & Bobbin Co., Burlington, Vt.
 Williams, J. H. & Co., Utica, N. Y.
 Woonsocket Shuttle Co., Woonsocket, R. I.

Silk Machine Wipers

Wilkinson, Seth, Pawtucket, R. I.

Silk Machinery

Atherton Machine Co., Paterson, N. J.
 Atwood-Morrison Co., Stonington, Conn.
 Brigham, Arthur A., 17 Milk, Boston, Mass.
 Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Cavagnaro, Jno. J. (Silk Finishers), 215 Centre, New York
 Crompton & Knowles Loom Works, Worcester
 Eastwood, Benj. Co., Paterson, N. J.
 Hartson, L. M. Co. ("Throwsters"), North Windham, Mass.
 Kilburn, Lincoln & Co., Fall River, Mass.
 Knapp, C. H., Walte & Rye, Paterson, N. J.
 Mason Machine Works, Taunton, Mass.
 National Mill Supply Co., Paterson, N. J.
 Royle, Jno. & Son, Paterson, N. J.
 Schaum & Uhlinger, N. Penn Junc., Phila., Pa.
 Sipp Electric & Machine Co., Paterson, N. J.
 Stafford Co., Readville, Mass.
 Textile Finishing Machinery Co. (Finishing), Providence, R. I.
 Webendorfer & Walling, Paterson, N. J.
 Willimantic Machine Co., Willimantic, Conn.

Singe Plates

Birch Bros., Somerville, Mass.
 Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Rome Metal Co., Rome, N. Y.
 Taunton-New Bedford Copper Co., New Bedford, Mass.
 Textile Finishing Machinery Co., Providence, R. I.
 Whittle, James H. (Copper), Worcester, Mass.

Singeing Machines

Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Curtis & Marble Machine Co. (Gas), Worcester, Mass.
 Knapp, C. H., c Waite & Rye, Paterson, N. J.
 New England Butt Co., Providence, R. I.
 Philadelphia Drying Machinery Co., Philadelphia, Pa.
 Rhode Island Braiding Machine Co., Providence, R. I.
 Rockwell Engineering Co. (Fine Plate Cloth for Oil, Coal or Gas), 28 Cortlandt, New York
 Skevington, Henry H. & Co. (Hosery), 1610 N Philip, Phila., Pa.
 Smith, Drum & Co., 2503 Canal, Phila., Pa.
 Textile Finishing Machinery Co., Providence, R. I.
 Textile Machine Works, Reading, Pa.
 Watson Machine Co., Paterson, N. J.

Singeing Machines (Electric)

Societe Anonyme Electro-Textile (Theo. F. Hussa, Rep.), 136 Liberty, New York

Sizing Machines

American Clay Working Mach. Co., Bucyrus, O.
 Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
 Clark, Geo. R. Co., Windsor Locks, Conn.
 Klein, Chas. C., 2850 N Marshall, Phila., Pa.
 Textile Finishing Machinery Co. (Cloth & Yarn), Providence, R. I.

Skewers

Arnold Bobbin Co., Dayville, Conn.
 Fall River Bobbin & Shuttle Co., 821 Cambridge, Fall River, Mass.
 Fall River Foundry & Machine Co., Fall River, Mass.
 Nashua Spool & Bobbin Co., Journal bldg, Boston, Mass.
 Payne, Geo. W. Co. (Cop.), Pawtucket, R. I.
 Sherwood Bobbin & Mfg. Co., Greensboro, N. C.
 Southern Spool & Bobbin Co., Greensboro, N. C.
 U. S. Bobbin & Shuttle Co., Providence, R. I.
 Weld Bobbin & Spool Co., Lawrence, Mass.
 Woodstock Hardwood & Spool Mfg. Co., Charleston, S. C.

Slashers

COHOES IRON FOUNDRY & MACHINE Co. (Cylinder & Hot Air), Cohoes, N. Y. (See adv. index, end of book)
 Entwistle, T. C. Co., Lowell, Mass.
 Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
 Lowell Machine Shop, Lowell, Mass.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.

Slubbing Machines

(See also Frames, Slubbing)

Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.
 Klauder-Weldon Dyeing Machine Co., Amster-dam, N. Y.
 Lowell Machine Shops, Lowell, Mass.
 Providence Machine Co., Providence, R. I.
 Saco & Pettee Machine Shops, Newton, Upper Falls, Mass.
 Whitin Machine Works, Whitinsville, Mass.
 Woonsocket Machine & Press Co., Woonsocket, R. I.

Soaping Machines

Birch Bros., Somerville, Mass.
 Hunt, Rodney Machine Co., Orange, Mass.
 Kenyon, D. R. & Son, Raritan, N. J.
 Textile Finishing Machinery Co., 17 Exchange pl, Providence, R. I.
 Watson Machine Co., Paterson, N. J.

Soaps (Textile)

(See Mill Soaps)

Spindle Banding

(See Braided Banding; also Spindle Hook Bands)

Spindle Bolsters

Bloom & Godley, Trenton, N. J.
 Hopkins Machine Works (Inc.), Bridgeton, R. I.
 Payne, Geo. W. Co., Pawtucket, R. I.
 Piqua Handle & Mfg. Co., Piqua, O.
 Westcott, A. A. & Sons, Hopedale, Mass.

Spindle Hook Bands

Bins Patent Band Co., 5th & Berks, Phila., Pa.
 Frost, Geo. T. & Sons, Paterson, N. J.

Spindle Tubes (Worsted)

Bamford & Smith, Pascoag, R. I.
 Riley, C. E. & Co., 65 Franklin, Boston, Mass.
 Stoddard, Haserick, Richards & Co., 125 Congress, Boston, Mass.

Spindles

American Textile Specialty Machinery Co., 363 Rider av, New York
 Bamford & Smith, Providence, R. I.
 Buckley's, B. Son, Paterson, N. J.
 Dann Bros. & Co., New Haven, Conn.
 Draper Co., Hopedale, Mass.
 Easton & Burnham Machine Co. (High Speed), Pawtucket, R. I.
 Ellsworth Hardwood Co. (Wood of All Varieties), Ellsworth, Me.
 Firth, Wm. Co. ("Clapham, Smith & Co.'s"), 79 Milk, Boston, Mass.
 Hall, I. A. & Co. ("Cant Silp"), Paterson, N. J.
 Hartson, L. M. Co., N. Windham, Conn.
 Hopkins Machine Works (Inc.), Bridgeton, R. I.
 Lever, Oswald Co. (Horizontal, Driven by Belts), Phila., Pa.
 Mayor, Thos. & Son, Providence, R. I.
 Payne Geo. W. Co., Pawtucket, R. I.
 Providence Mach. Co., Providence, R. I.
 Prue, Frank J. (For Cop Yarn Winding), Woonsocket, R. I.
 Taunton Spindle Co., Taunton, Mass.
 True, Alvin S., Hampton, N. H.
 U. S. Bobbin & Shuttle Co., Providence, R. I.
 Ward & Vandegrift, Elmer, N. J.
 Westcott, A. W., Hopedale, Mass.
 Wisconsin Textile Mfg. Co., Two Rivers, Wis.

Spindles (Cop)

American Textile Specialty Machinery Co., 363 Rider av, New York

Spindles (Dresser)

Payne, Geo. W. Co., Pawtucket, R. I.

Spindles (Reel)

Payne, Geo. W. Co., Pawtucket, R. I.

Spindles (Shuttle)

Chase, F. A. & Co., Providence, R. I.

Spindles (Spooler)

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
 Payne, Geo. W. Co., Pawtucket, R. I.

Spinning Machinery

(See Frames, also Mules)

Spinning Machinery (Jute)

Brownell, G. L., 49 Union, Worcester, Mass.
 Firth, Wm. Co. (Mackie & Sons), 179 Milk, Boston, Mass.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Watson Machine Co., Paterson, N. J.

Spinning Rings

American Supply Co., Providence, R. I.
 Brown Bros. Co., Providence, R. I.
 Buckley's, Benj. Son, Paterson, N. J.
 Draper Co., Hopedale, Mass.
 Pawtucket Spinning Ring Co., Pawtucket, R. I.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Westcott, A. W., Hopedale, Mass.
 Whitinsville Spinning Ring Co., Whitinsville, Mass.

Spinning Tubes

Bamford & Smith, Providence, R. I.
 Buckley's, Benj. Son, Paterson, N. J.

Splicing Machines

Brigham, Arthur A., 17 Milk, Boston, Mass.

Spooler Guides

Draper Co. ("Northrop," "Northrop Improved," "Lawrence"), Hopedale, Mass.
 Payne, Geo. W. Co., Pawtucket, R. I.

Spoolers (Cotton)

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
 Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.

Draper Co., Hopedale, Mass.
 Easton & Burnham Machine Co., Pawtucket.
 Foster Machine Co., Westfield, Mass.
 Klein, Chas. C. ("Klein" Patent), 2850 N. Marshall, Phila., Pa.
 Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
 Lowell Machine Shop, Lowell, Mass.
 Saco & Pettec Machine Shops, Newton Upper Falls, Mass.

Schaum & Uhlinger, N 2nd & Glenwood av
 Smith, Jas., Woolen Machinery Co., 411 Race, Philadelphia, Pa.
 Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
 Whitin Machine Works, Whitinsville, Mass.
 Wrigley, Thomas, Paterson, Mass.

Spoolers (Doubling)

Payne, Geo. W. Co., Pawtucket, R. I.

Spoolers (Dresser)

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
 Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
 Foster Machine Co., Westfield, Mass.
 Lever, Oswald, Lehigh av, c Mascher, Phila., Pa.
 Lindsay, Hyde & Co., 2124 E. York, Phila., Pa.
 Smith & Furbush Machine Co. ("Furbush"), Phila., Pa.

Spoolers (Drum)

Whittle, James H., Worcester, Mass.

Spoolers (Woolen & Worsted)

Altamus, Jacob K., 2816 N. 4th, Phila., Pa.
 Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
 Easton & Burnham Machine Co., Pawtucket.
 Foster Machine Co., Westfield, Mass.
 Smith, Jas. Woolen Machine Co., 411 Race, Philadelphia, Pa.
 Smith & Furbush Mach. Co., Hancock & Somerset, Phila., Pa.
 Whittle, James H., Worcester, Mass.

Spoolers (Yarn)

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
 Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
 Foster Machine Co., Westfield, Mass.
 Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
 Payne, Geo. W. Co., Pawtucket, R. I.
 Whittle, Jas. H., Worcester, Mass.

Spooling Machines

(See Spoolers)

Spools

(See also Bobbins)

Altamus, Jacob K., 2816 N 4th, Phila., Pa.
 Allen Spool Printing Co., Mystic, Conn.
 American Supply Co., Providence, R. I.
 Arnold Bobbin Co., Dayville, Conn.
 Atwood-Crawford Co., Pawtucket, R. I.
 American Supply Co., Providence, R. I.
 Baldwin, Jas. Co., Manchester, N. H.
 Brown Bros. Co., Providence, R. I.
 Chester Mfg. Co., Chester, Mass.
 Coburn, Fred S., 243 Main, Woonsocket, R. I.
 Elliott & Bartlett, Albany, Me.
 Excelsior Bobbin & Spool Co., Newtown, Pa.
 Fall River Bobbin & Shuttle Co., 821 Cambridge, Fall River, Mass.
 Fall River Foundry & Machine Co., Fall River.
 Frary, Edward S., Berlin, N. Y.
 Georgia Spool & Bobbin Mfg. Co., Macon, Ga.
 Hall, F. A. & P., Lawrence, Mass.
 Kline, Lewis T. (Thread), Alpena, Mich.
 Lestershire Spool Mfg. Co., Lestershire, N. Y.
 Marodi Fibre Co., Woonsocket, R. I.
 Mawson Bros., Newtown, Pa.
 Mawson Spool & Bobbin Co., Lestershire, N. Y.
 Nashua Spool & Bobbin Co., Journal bldg, Boston, Mass.
 New England Shuttle Co., 64 Leverett, Lowell.
 Novelty Turning Co., Norway, Me.
 Ohio Valley Pulley Works, Maysville, Ky.
 Payne, Geo. W. Co., Pawtucket, R. I.
 Schutz Bros., 71 W. B'way, New York.
 Sherwood Bobbin & Mfg. Co., Greensboro, N. C.

Tebbetts, E. L. & Co., Locke's Mills, Me.
 Union Shuttle Co., Lawrence, Mass.
 U. S. Bobbin & Shuttle Co., Providence, R. I.
 Van Riper Mfg. Co., Paterson, N. J.
 Vermont Spool & Bobbin Co., Burlington, Vt.
 Weatherhead, Thompson & Co., Pawtucket, R. I.

Weld Bobbin & Spool Co., 42 Island, Lawrence, Mass.

Williams, J. H. Co., Utica, N. Y.
 Wisconsin Textile Mfg. Co., Two Rivers, Wis.
 Woodstock Hardwood & Spool Mfg. Co., Charleston, S. C.

Spools (Dresser, Steel Head)

Sweet & Doyle, Cohoes, N. Y.

Spools (Jack, Steel Head)

Sweet & Doyle ("S. & D."), Cohoes, N. Y.

Spools (Silk Thread)

Atwood-Crawford Co., Pawtucket, R. I.
 Stowell, N. S., Spool & Wood Turning Co., Dixfield, Me.

Spools (Warp)

Payne, Geo. W. Co., Pawtucket, R. I.

Sprinkling Machines

Textile Finishing Machinery Co., Providence, R. I.

Squeezers

Birch Bros., Somerville, Mass.
 Textile Finishing Machinery Co., Providence.
 Watson Machine, Paterson, N. J. R. I.

Steaming Machines

Birch Bros., Somerville, Mass.
 Curtis & Marble Machine Co., Worcester, Mass.
 Hunter, James, Machine Co., N. Adams, Mass.
 Schuchardt & Schutte, 90 West, New York
 Textile Finishing Machinery Co., Providence, R. I.

Stirrups & Levers (Cotton Machinery)

Dixon Lubricating Saddle Co., Bristol, R. I.
 Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.

Stock Cleaners (Four Cylinder)

Smith, Jas., Woolen Machinery Co., 411 Race, Philadelphia, Pa.

Stock Oilers ("Spencer")

Hardwood, Geo. S. & Son, 53 State, Boston, Mass.

Strapping Machines

(See also Sewing Machines)

American Picker & Strapping Co., Providence, R. I.
 Union Button Sewing Machine Co., 164 High, Boston, Mass.

Stripping Machines

Leighton Machine Co. (Sweaters, Cardigans, Collarettes & Anklets), Manchester, N. H.
 Smith, Drum & Co., 2503 Canal, Phila., Pa.

Sweep Sticks

Brusher, J. B., Norristown, Pa.
 Montgomery Lumber & Mfg. Co., Montgomery, Ala.

Tanks (Bleaching)

CANTON BOILER & ENGINEERING
 Co., Canton, O. (See adv. index, end of book)

Tapes, Braids & Cords

Barber Mfg. Co. (Spinning Tapes), Lowell, Mass.
 Barlow, John W. Co. (Spinning), Lawrence.
 Barton, F. C., 65 Worth, New York Mass.
 Cathcart, John & Co., 115 Franklin, New York
 Chapin, Geo. W., 229 Church, Phila., Pa.
 Eddy & Street, Providence, R. I.
 Friedberger, Aaron, Mfg. Co., Germantown, Phila., Pa.
 Goff, D. & Sons, Pawtucket, R. I.
 Hamilton, J. H. & Co., 25 White, New York
 Hoffman-Corr Mfg. Co., 107 Duane, New York
 Hope Webbing Co. (Spinning Tapes), Providence, R. I.)
 Kavanaugh, Geo. W., Cohoes, N. Y.
 Kenyon, Jno. J. Mfg. Co., Pawtucket, R. I.
 Krout & Flite Mfg. Co., Allegheny av & Emerald, Philadelphia, Pa.
 Lambeth Rope Corporation (Flat Braided Tapes), New Bedford, Mass.

Pawtucket Tape Co., Pawtucket, R. I.
Steinthal, M. & Co., 267 W. B'way, New York
Weimer Bros., 2046 Amher, Phila., Pa.
Wick Narrow Fabric Co., 710 Market, Phila., Pa.

Teasels

Keillogg Bros., Skaneateles, N. Y.

Temples

(See Loom Temples)

Tenter Clips

Textile Finishing Machinery Co., Providence, R. I.
Winsor & Jerauld Mfg. Co., Providence, R. I.

Tentering Machines

Birch Bros., Somerville, Mass.
Butterworth, H. W. & Sons Co., 2415 E York, Phila., Pa.
Heathcote, John & Son, Providence, R. I.
Kenyon, D. R. & Son, Raritan, N. J.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Taylor & Fenn Co., Hartford, Conn.
Textile Finishing Machinery Co., Providence, R. I.
Winsor & Jerauld Mfg. Co., Providence, R. I.
Whittle, James H., Worcester, Mass.

"T" Pins

"T" Pin Co., 1 Madison av., New York.

Testing Machines (Cloth)

Sipp Electric & Machine Co., Paterson, N. J.
Testing Machines (Hosiery Fabric), Holyoke, Mass.

Testing Machines (Yarn)

American Supply Co., Providence, R. I.
Firth, Wm. Co. (Goodbrandt Co.), 79 Milk, Boston, Mass.
Olsen, Tillus & Co., 500 N. 12th, Phila., Pa.
Sweet & Doyle, Cohoes, N. Y.

Textile Parts

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Thread Board (Steel)

Houghton Mfg. Co., Worcester, Mass.

Thread Machinery

Atwood-Morrison Co., Stonington, Conn.
Willimantic Machine Co., Willimantic, Conn.

Tom-Toms (For Hosiery)

American Drying Machinery Co., 3301 N 19th, Phila., Pa.
Philadelphia Drying Machinery Co., 6721 Germantown av., Phila., Pa.
Rothe, O. P. Mfg. & Supply Co. (Ltd.), Norristown, Pa.

Trade-Mark Stamps

Kaumagraph Co., 156 5th av., New York
Metallic Transfer Co., Irvington, N. J.

Traveler Cleaners

Whitinsville Spinning Ring Co., Whitinsville, Mass.

Traveler Cups

Whitinsville Spinning Ring Co., Whitinsville, Mass.

Travelers (Ring)

American Supply Co., Providence, R. I.
Brown Bros. Co., Providence, R. I.
Chase, F. A. & Co., Providence, R. I.
Dary Ring Traveller Co., Taunton, Mass.
De Haven Mfg. Co., 50 Columbia Heights, Brooklyn, N. Y.
Hartson, L. M., Co., N. Windham, Conn.
Jenckes, E. Mfg. Co., Pawtucket, R. I.
National Ring Traveler Co., Providence, R. I.
Shaw, Victor Ring Traveler Co., Providence, R. I.
Standard Ring Traveler Co., New Bedford.
Sterling Mfg. Co., Fall River, Mass.
Whitaker Reed Co. ("Royal"), Worcester, Mass.

Travelers (Spinning & Twisting)

(See Travelers, Ring)

Trucks (Mill)

AMERICAN VULCANIZED FIBRE CO. ("Laminar" Dept.), Wilmington, Del. (See adv. index, end of book)
Burlington Basket Co., Burlington, Ia.
Diamond State Fibre Co., Elsmere, Del.
Morris & Co., Groveville, N. J.
Spaulding-Perkins Co., No. Rochester, N. H.

Tubs (Bleaching)

Dillon, D. M. (For Paper Mills), Fitchburg, Mass.

Turbines

(See Index of Contents)

Twine Baling Machines

Draper Co., Hopedale, Mass.
Lloyd, Jno. Co., 562 Water, New York.

Twister Ring Oiling Device

Draper Co. ("Carter"), Hopedale, Mass.

Twisters (Carpet)

Reed Mfg. Co. (Foot Power), Springfield, Ohio.

Twisters (Cordage)

Brownell, Geo. L., Worcester, Mass.
Lyall, J. & W., Passaic, N. J.

Twisters (Cotton)

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
Brownell, G. L., 49 Union, Worcester, Mass.
Collins Bros., Central Falls, R. I.
Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.
Draper Co., Hopedale, Mass.
Franklin Machine Co., Providence, R. I.
Haskell-Dawes Machine Co., 170 Federal, Boston, Mass.
Howard & Bullough American Machine Co. (Ltd.), Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Pawtucket Spinning Ring Co., Pawtucket, R. I.
Providence Machine Co., Providence, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Whitin Machine Works, Whitinsville, Mass.
Whitinsville Spinning Ring Co., Whitinsville, Mass.

Twisters (Silk)

Atwood-Morrison Co., Stonington, Conn.
Brownell, G. L., 49 Union, Worcester, Mass.
Royle, John & Sons, Paterson, N. J.

Twisters (Wool)

Brownell, G. L., 49 Union, Worcester, Mass.
Cleveland Machine Works, Worcester, Mass.
Collins Bros., Central Falls, R. I.
Fales & Jencks Machine Co., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith, James, Woolen Machinery Co., 411 Race, Philadelphia, Pa.
Whittle, James H., Worcester, Mass.

Twisters (Yarn)

Collins Bros., Central Falls, R. I.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Smith & Furhush Machine Co., Phila., Pa.
Whittle, James H., 150 Harlow, Worcester, Mass.

Warp Tying Machines

Barber, Colman Co., Rockford, Ill.

Warpers

Altamus, Jacob K., 2824 N 4th, Phila., Pa.
American Warp Drawing Machine Co., 289 A, Boston, Mass.
Atherton Machine Co., Paterson, N. J.
Atwood-Morrison Co., Stonington, Conn.
Butterworth, H. W. & Sons Co., 2415 E. York, Philadelphia, Pa.
Crompton & Knowles Loom Works, Worcester, Mass.
Draper Co. ("Hopedale"), Hopedale, Mass.
Eastwood, Benj., Co. (Silk, Horizontal & Swiss), Paterson, N. J.
Entwistle, T. Co., Lowell, Mass.
Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.

Howard & Bullough Am. Machine Co., Ltd., Pawtucket, R. I.
Lowell Machine Shop, Lowell, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Royle, John & Sons, Paterson, N. J.
Smith & Furhush Mach. Co., Hancock & Somerset, Phila., Pa.
Whitin Machine Works, Whitinsville, Mass.

Warpers (Ball)

Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.

Warpers (Leese)

Lowell Machine Shop, Lowell, Mass.

Warpers (Ribbon)

Atherton Machine Co. (Power for Broad & Ribbon Looms), Paterson, N. J.
Royle, John & Sons, Paterson, N. J.

Warpers (Slasher)

Lowell Machine Shop, Lowell, Mass.

Warpers & Linkers (Chain)

Draper Co. ("Walcott"), Hopedale, Mass.
Globe Machine Works, 2009 Oxford, Fkd., Phila., Pa.

Warping Mills

Lever, Oswald (For Lace Looms), Lehigh av & Mascher, Phila., Pa.

Warping Mills (Sectional)

Lever, Oswald, Lehigh av c Mascher, Phila., Pa.
Smith & Furhush Machine Co., Phila., Pa.

Warps

Dana Warp Mills, Westbrook, Me.
Grant Yarn Co., Fitchburg, Mass.
Greene & Daniels Mfg. Co., Pawtucket, R. I.
Hoffman-Corr Mfg. Co., 55 White, New York
Indian Orchard Co., Indian Orchard, Mass.
Montgomery, J. R. Co., Windsor Locks, Conn.
Monument Mills, Housatonic, Mass.
Philadelphia Drying Machinery Co., 6721 Germantown av., Phila., Pa.
Sternberg, F. & Co., 530 B'way, New York

Washer & Fuller Combined

Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., North Adams, Mass.

Washers (Cloth)

American Drying Machinery Co., 3301 N. 19th, Phila., Pa.
Birch Bros., Somerville, Mass.
Conklin & Co., 96th & Erie av., Chicago, Ill.
Hopkins Machine Works (Inc.), Bridgeton, R. I.
Hunt, Rodney Machine Co., Orange, Mass.
Hunter, James Machine Co., North Adams, Mass.
Kenyon, D. R. & Son, Raritan, N. J.
Philadelphia Drying Machinery Co., 6721 Germantown av., Phila., Pa.
Textile Finishing Machinery Co., Providence, R. I.
Watson Machine Co., Paterson, N. J.

Washers (Warp)

Textile Finishing Machinery Co., Providence, R. I.

Washers (Wool)

Hunter, James Machine Co., North Adams, Mass.
Kenyon, D. R. & Son, Raritan, N. J.
Sargent's, C. G. Sons, Westford, Mass.
Smith, James, Woolen Machinery Co., 411 Race, Philadelphia, Pa.
Speed & Stephenson, 170 Summer, Boston, Mass.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.
Watson Machine Co., Paterson, N. J.

Washers (Yarn)

Textile Finishing Machinery Co., Providence, R. I.

Waste Machines (Cotton)

Firth, Wm. Co. (Fatham & Co.'s), 79 Milk, Boston, Mass.
Riley, C. E. & Co., 65 Franklin, Boston, Mass.

Waste Machines (Engine Cleaning)

Riley, C. E., & Co., 65 Franklin, Boston, Mass.

Waste Savers

Torrance Mfg. Co. ("Choquette"), Harrison, N. J.

Weaving Machinery

(See Looms)

Web Folding Machines

S. C. F. Machinery Co., Nashville, Mich.

Webbing (Cotton)

Atkins & Pearce Mfg. Co., 5th & Eggleston av., Cincinnati, O.

Barton, F. C., 65 Worth, New York
Buffalo Weaving & Belting Co. (Belting, Halters, Girths, Bridles, Back Bands, Trunk Straps, etc.), Buffalo, N. Y.

Empire Mfg. Co., Lockport, N. Y.
Fletcher Mfg. Co., Providence, R. I.
Hoffman-Corr Mfg. Co., 55 White, New York
Hope Webbing Co. (Narrow Woven Fabrics), Providence, R. I.

United States Cotton Duck Corp'n (Back Band, etc.), Continental Trust bldg., Baltimore, Md.
Vogt Mfg. & Coach Lace Co., Rochester, N. Y.

Webbing (Elastic)

American Mills Co., Waterbury, Conn.
Ansonia O. & C. Co., Ansonia, Conn.
Buffalo Weaving & Belting Co., Buffalo, N. Y.
Connecticut Web Co., Bridgeport, Conn.
Harriman, Josiah, 175 Hale, Lowell, Mass.
Martin, T. & Bro. Mfg. Co., Chelsea, Mass.
Russell Mfg. Co., Middletown, Conn.
Smith Webbing Co., Pawtucket, R. I.

Welt Machines

Cooper, Chas. (Automatic Latch Needle), Bennington, Vt., & Amsterdam, N. Y.

Willowing Machines (Wool)

Butterworth, H. W., & Sons' Co., Phila., Pa.
Kenyon, D. R. & Son, Raritan, N. J.
Lombard Machine Co., Worcester, Mass.
Riley, C. E., & Co., 65 Franklin, Boston, Mass.
Sargent's, C. G. Sons, Westford, Mass.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.
Smith & Furbush Machine Co. ("Proctor"), Phila., Pa.
Whittle, James H., Worcester, Mass.

Winders

(See also Sub-divisions of this Head)

Allen, A. W. (Yarn), 2427 Mascher, Phila., Pa.
Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Atherton Machine Co. (For Silk Mills), Paterson, N. J.

Atwood-Morrison Co., Stonington, Conn.
Campbell & Clute, Cohoes, N. Y.
Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.

Eastwood, Benj. Co. (Silk), Paterson, N. J.
Firth, Wm. Co. (Stubbs), 179 Milk, Boston, Mass.
Foster Mach. Co., Westfield, Mass.

Kennedy, Thomas, Cohoes, N. Y.
Lazenby, F. A. & Co. (Cotton Duck), Bush & Wicomico, Baltimore, Md.

Leighton Machinery Co., Manchester, N. H.
Lever, Oswald Co., Lehigh av & Mascher, Phila., Pa.

Lowell Machine Shop, Lowell, Mass.
Lyall, J. & W., 83 Leonard, New York
Payne, Geo. W. Co. (Cop, Skein or Bobbin), Pawtucket, R. I.

Providence Machine Co., Providence, R. I.
Royle, John & Sons, Paterson, N. J.

Sipp Electric & Machine Co., Paterson, N. J.
Textile Finishing Machinery Co., Providence, R. I.

Textile Machine Works, Reading, Pa.
Universal Winding Co., Boston, Mass.
Watson Machine Co., Paterson, N. J.

Whitin Machine Works, Whitinsville, Mass.
Whittle, James H., Worcester, Mass.

Wrigley, Thomas, Paterson, N. J.

Winders (Ball)

Franklin Machine Co., Providence, R. I.
North Chelmsford Machine Co., North Chelmsford, Mass.

Winders (Bobbin)

(See Bobbin Winders)

Winders (Cone)

Brigham, Arthur A. ("Broabent & Brighams"), 17 Milk, Boston, Mass.
Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.

Foster Machine Co., Westfield, Mass.
Howard & Bullough American Machine Co., Ltd., Pawtucket, R. I.

Lever, Oswald, Lehigh av & Mascher, Phila., Pa.
Lowell Machine Shop (Camless), Lowell, Mass.

Newton, Edwin A., 310 N 4th, Philadelphia, Pa.
Stoddard, Haserick, Richards & Co., 152 Congress, Boston, Mass.

Universal Winding Co., 95 South, Boston, Mass.

Winders (Cop)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Lever, Oswald Co., Lehigh av & Mascher, Phila., Pa.

Lindsay, Hyde & Co., 2124 E York, Phila., Pa.
Lyall, J. & W., 83 Leonard, N. Y.

Royle, John, & Sons, Paterson, N. J.
Schaum & Uhlinger, N 2d & Glenwood av, Philadelphia, Pa.

Universal Winding Co., 95 South, Boston, Mass.

Winders (Fillet)

Smith, Jas. Woolen Machinery Co., 411 Race, Philadelphia, Pa.

Winders (Hand)

Branson Machine Co., 506 N American, Phila., Pa.

Winders (Hosiery)

Brigham, Arthur A. ("Broabent & Brighams"), 17 Milk, Boston, Mass.

Lever, Oswald Co., Lehigh av & Mascher, Philadelphia, Pa.

Lindley, Geo. W., Germantown, Phila., Pa.
Payne, Geo. W. Co., Pawtucket, R. I.

Universal Winding Co., 95 South, Boston, Mass.

Winders (Magnet)

Universal Winding Co., 95 South, Boston, Mass.

Winders (Quill)

Lever, Oswald, Lehigh av & Mascher, Phila., Pa.

Schaum & Uhlinger, N 2d & Glenwood av, Phila., Pa.
Universal Winding Co., 95 South, Boston, Mass.

Winders (Skein)

Brigham, Arthur A., 17 Milk, Boston, Mass.
Collins Bros., Central Falls, R. I.

Easton & Burnham Machine Co., Pawtucket, R. I.

Foster Machine Co., Westfield, Mass.
Lever, Oswald, Lehigh av & Mascher, Phila., Pa.

Winders (Yarn)

Lever, Oswald Co., Lehigh av & Mascher, Philadelphia, Pa.

Universal Winding Co., 95 South, Boston, Mass.

Winding Machines (Cloth)

Allen, C. B. Machine Co. (Combination Measuring & Winding), 315 Dearborn, Chicago, Ill.

Curtis & Marble Mach. Co., Worcester, Mass.
Parks & Woolson Machine Co., Springfield, Vt.

Textile Finishing Machinery Co., Providence, R. I.

Whittle, Jas. H., Worcester, Mass.

Winding Machines (Hank)

Smith, Jas. Woolen Machinery Co., 411 Race, Phila., Pa.

Winding Machines (Paper Tube)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.

Wooden Shells

Martin, Adolph & Son, 270 Bloomfield av, Passaic, N. J.

Wool Burring Machines

Curtis & Marble Mach. Co., Worcester, Mass.

Wool Combs

(See Combs, Wool)

Woolen & Worsted Machinery

(See also the Specific Article Required)

Altemus, Jacob K., 2824 N 4th, Phila., Pa.
Brown Cotton Gln Co., New London, Conn.

Butterworth, H. W., & Sons' Co., Phila., Pa.
Clark Machine & Foundry Co., Franklin, Mass.

Clark, J. Machy. Co. (Dealers), Lowell, Mass.
Crompton & Knowles Loom Works, Worcester, Mass.

Curtis & Marble Machine Co., Worcester, Mass.
Dana, Geo. R. (Dealers), Lowell, Mass.

Diamond Textile Machine Works, C & Westmoreland, Phila., Pa.

Duckrow, R. A. (Dealer), Troy, N. Y.
Firth, Wm., Co., 79 Milk, Boston, Mass.

Harwood, Geo. S. & Son, 53 State, Boston, Mass.
Heathcote, John, & Son, Providence, R. I.

Hood, R. H., 1842 Gtn. av, Phila., Pa.
Hunt, Rodney Machine Co., Orange, Mass.

Hunter, Jas. Machine Co., N. Adams, Mass.
Jefferson, Edw., & Bro., 127 S. 2d, Phila., Pa.

Kenyon, D. R. & Son, Raritan, N. J.
Leigh, Evan Arthur, 232 Summer, Boston, Mass.

Lombard Machine Co., Worcester, Mass.
Lowe, Stephen C., 186 Devonshire, Boston, Mass.

Lowell Machine Shop, Lowell, Mass.
National Machinery Co. (Dealers), Providence, R. I.

Parks & Woolson Machine Co., Springfield, Vt.
Payne, G. W. Co., Pawtucket, R. I.

Phila. Drying Machinery Co., 6721 Germantown av, Phila., Pa.

Riley, C. E. & Co., 65 Franklin, Boston, Mass.
Sargent's, C. G. Son, Westford, Mass.

Scott, Jas. (Dealer), 241 Chestnut, Phila., Pa.
Smith, James Woolen Machinery Co., 411 Race, Phila., Pa.

Smith, Geo. E. (Dealer), Cohoes, N. Y.
Smith & Furbush Machine Co., Hancock & Somerset, Phila., Pa.

Speed & Stephenson (Woolen & Worsted Machinery), 170 Summer, Boston, Mass.

Stoddard, Haserick, Richards & Co., Boston, Mass.
Street, R. R. & Co., 184-186 Washington, Chicago, Ill.

Whittle, James H. ("Henderson's"), Worcester, Mass.

Woonsocket Machine & Press Co., Woonsocket, R. I.

Wringing Machines

Hunt, Rodney Machine Co., Orange, Mass.

Yarn Chaining Machines

Cole Bros., Pawtucket, R. I.

Yarn Printing Machines

Brigham, Arthur A., 17 Milk, Boston, Mass.
Luther, Chas. A. & Co., Pawtucket, R. I.

(END OF TEXTILE MACHINERY)

Thalpotasimeters

NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y. (See adv. Index, end of book)

Schaefer & Budenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

***Theatre Brass Work**

(See also Bronze, Architectural, Etc.)

GORHAM CO. ARCH'L BRONZE, 5th av & 36th, New York; Works: Providence, R. I. (See adv. index, end of book)

WISCONSIN IRON & WIRE WORKS, 190 E Water, Milwaukee, Wis. (See adv. Index, end of book)

Theatre Curtains (Asbestos)

Ehret Magnesia Mfg. Co., Land Title bldg., Phila., Pa.

Johns, H. W.-Manville Co., 100 William, New York

Keasbey & Mattison Co., Main Office & Works, Ambler, Pa.

New Jersey Asbestos Co., Camden, N. J.
WATSON, H. F. CO., Erie, Pa.

(See adv. index & branch offices, end of book)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL RECISTER

Theatre Curtains (Steel)

ELEVATOR SUPPLY & REPAIR CO., 76
W. Monroe, Chicago, Ill. (See adv. Index,
end of book)

FIREPROOF STEEL CURTAINS

AND

MECHANICAL EQUIPMENT FOR THEATRES**ELEVATOR SUPPLY & REPAIR CO.**

114 LIBERTY ST. 76 W. MONROE ST.
NEW YORK CHICAGO

593 MARKET ST., SAN FRANCISCO, CAL.

Union Elevator & Mach. Co., 144 Ontario, Chi-
cago, Ill. Variety Mfg. Co., Chicago, Ill.

***Theatre Mechanical Equipment**

ELEVATOR SUPPLY & REPAIR CO., 76
W. Monroe, Chicago, Ill.; 114 Liberty,
New York, & 593 Market, San Francisco,
Cal. (See adv. index, end of book)

Theatre Seating

(See Opera Chairs & Theatre Seating)

***Thermo Gauges**

MORSE THERMO GAGE CO.,
("Morse"), Ithaca, N. Y. (See adv.
index, end of book)

Thermometers

American Steam Gauge & Valve Mfg. Co.,
208 Camden, Boston, Mass.
Amesbury Thermometer Co., Amesbury, Mass.
BRISTOL CO. ("Bristol's" Recording, etc.),
Waterbury, Conn., & 114 Liberty, New
York. (See adv. index & branch offices, end
of book)

Buffalo Thermometer Co., 202 Main, Buffalo,
N. Y.
Bussey Bros., Phelps, N. Y.
Carr-Lowrey Glass Co., Westport, Baltimore,
Md.
Dodge, Albert J., Peterboro, N. H.
Du Vivier, Ernest H. (Recording), 30 Church,
New York

Elmer & Amend (Chemical), 205 3d av., New
York

Electrical Appliance Co., Waterbury, Conn.
Hoehn, R. Co. (I. Mayer & Co., Propts.), 84
Evergreen av., Brooklyn, N. Y.

INDUSTRIAL INSTRUMENT CO.
(Industrial), Foxboro, Mass. (See adv.
index & branch offices, end of book)

Leeds & Northrup Co., 4901 Stenton av, Gtn.,
Phila., Pa.

National Brass & Iron Works (Metal Plated),
Reading, Pa.

NATIONAL GAUGE CO. ("National"),
168 8th, Brooklyn, N. Y. (See adv. index,
end of book)

National Thermometer Co. (Clinical), 927
B'way, New York

Parker Mfg. Co., Boston, Mass.
Phila. Thermometer Co., Arch & 9th, Phila.,
Pa.

QUEEN & CO. (Inc.). (Technical),
N. W. c. 8th & Arch, Phila., Pa. (See
adv. index, end of book)

Schaeffer & Budenberg Mfg. Co. (For All Me-
chanical Purposes), 963 Kent av, Brook-
lyn, N. Y.

Standard Steam Specialty Co. ("Boston"), 542
W B'way, New York

Tagliabue, Chas. J. Mfg. Co., 53 Fulton, New
York

Taylor Instrument Co., Rochester, N. Y.
Wagner, Carl, 1061 N Albany, Chicago, Ill.

Weinhagen, Henry (For Laboratory, Factory,
etc.), 22 N William, New York

Weiskoff, Abram, 127 Market, Chicago, Ill.

Thermometers (Chemical)

Elmer & Amend, 205 3d av., New York.
NATIONAL GAUGE CO., 168 8th.
Brooklyn, N. Y. (See adv. index, end of
book)

National Thermometer Co., 827 B'way, New
York
Schaeffer & Budenberg Mfg. Co., 963 Kent av,
Brooklyn, N. Y.

***Thermometers (Feed Water)**

BRISTOL CO. ("Bristol's" Record-
ing), Waterbury, Conn. (See adv. Index
& branch offices, end of book)

Thermometers (Heating)

American Steam Gauge & Valve Mfg. Co., 208
Camden, Boston, Mass.

Amesbury Thermometer Co., Amesbury, Mass.
Ashton Valve Co., 271 Franklin, Boston, Mass.

BRISTOL CO. ("Bristol's" Record-
ing), Waterbury, Conn. (See adv. index
& branch offices, end of book)

Canton Brass Co. (Hot Water), Canton, O.
CROSBY STEAM GAGE & VALVE CO., 97
Oliver, Boston, Mass. (See adv. index &
branch offices, end of book)

Gurney Heater Mfg. Co., Boston, Mass.

INDUSTRIAL INSTRUMENT CO.,
Foxboro, Mass. (See adv. index & branch
offices, end of book)

NATIONAL GAUGE CO. ("National")
168 8th, Brooklyn, N. Y. (See adv. index,
end of book)

QUEEN & CO. (Hot Water), n w c
8th & Arch, Phila., Pa. (See adv. index,
end of book)

Schaeffer & Budenberg Mfg. Co., 963 Kent av,
Brooklyn, N. Y.

Taylor Instrument Co., Rochester, N. Y.

U. S. Gauge Co. (Hot Water), 67 Wall, New
York

Thermometers (Hot Well)

BRISTOL CO. ("Bristol's" Record-
ing), Waterbury, Conn. (See adv. index
& branch offices, end of book)

INDUSTRIAL INSTRUMENT CO.,
Foxboro, Mass. (See adv. index & branch
offices, end of book)

Schaeffer & Budenberg Mfg. Co., 963 Kent av,
Brooklyn, N. Y.

***Thermometers (Optical)**

MORSE THERMO GAGE CO., Ithaca,
N. Y. (See adv. index, end of book)

Thermometers (Oven)

Cooper, D. G., Pequabuck, Conn.

Electrical Appliance Mfg. Co., Waterbury,
Conn.

Evans Stamping & Plating Co. ("Acme"),
Taunton, Mass.

Thermometers (Resistance)

Central Laboratory Supply Co. ("Vawter Re-
cording"), La Fayette, Ind.

Leeds & Northrup Co., 4901 Stenton av, Gtn.,
Phila., Pa.

Thermometers (Shower Bath)

Canton Brass Co., Canton, Ohio.
NATIONAL GAUGE CO., 168 8th.
Brooklyn, N. Y. (See adv. index, end of book)

***Thermometers (Steam & Hot Water)**

(See also Thermometers, Heating)

BRISTOL CO. ("Bristol's" Record-
ing), Waterbury, Conn. (See adv. index
& branch offices, end of book)

INDUSTRIAL INSTRUMENT CO.,
Foxboro, Mass. (See adv. index & branch
offices, end of book)

***Thermometers (Thermostat)**

BRISTOL CO., Waterbury, Conn., & 114
Liberty, New York. (See adv. index & branch
offices, end of book)

Thermos Bottles

(See Bottles, Vacuum)

Thermostats

(See also Regulators, Heat)

Acton, John, 118 John, Brooklyn, N. Y.
Amesbury Thermometer Co., Amesbury, Mass.

Beers Bros., Rochester, N. Y.
BUNNELL, J. H. & CO., 20 Park pl,
New York. (See adv. index, end of book)

Crane, Wm. M. Co., 16 W 32nd, New York
Edwards & Co., 140th & Excelsior, New York
H. & M. Automatic Regulator Co. (House or
Car), Newark, N. J.

Howard Thermostat Co., Oswego, N. Y.
Johnson Service Co., Milwaukee, Wis.

Kieley & Mueller (For Hot Water Tanks, etc.),
34 W. 13th, New York

National Regulation Co. (For Control of Dampers
& Valves in a Heating Apparatus), 534 Dear-
born, Chicago, Ill.

Norwall Mfg. Co. ("Allen"), 138 Jackson, Chic-
ago, Ill.

Ostrander, W. R. & Co., 22 Dey, New York
QUEEN & CO. (Inc.), N. W. cor. 8th
& Arch, Phila., Pa. (See adv. index, end
of book)

Standard Steam Specialty Co. ("Boston" Boil-
er), 542 W B'way, New York

Standard Temperature Regulator Co., Newark,
N. J.

Weiskopf, Abram, 127 Market, Chicago, Ill.

Thimbles (Chimney)

Duulap Mfg. Co. ("Holdfast"), Dunlap, Iowa
Gendron, L. A. & Co., Warren, Mass.

Seluer, Chas. F., Indianapolis, Ind.
Sterling Fdry. Co. ("The Best"), Sterling, Ill.

Thimbles (Fire-Place)

American Auto Brass Co., Columbus, O.
Gendron, L. A. & Co. ("Gendron's"), Warren,
Mass.

Indianapolis Steel Roofing & Corrugating Co.,
Indianapolis, Ind.

Thimbles (Floor)

Grabler Mfg. Co., Cleveland, O.

Thimbles (Sewing)

Ansouia Novelty Co. (Aluminum, Gold & Silver),
Ansonia, Conn.

Durand & Co., Newark, N. J.
Goodyear India Rubber Glove Mfg. Co. (Rubber),
503 B'way, New York

Grote, Fred. & Co., 318 E. 23d, New York
Illinois Pure Aluminum Co. (Aluminum), Le-
mout, Ill.

Ketcham & McDougall (Gold & Silver), 37
Maideu Lane, New York

Simons Bros. & Co. (Gold & Silver), Philadel-
phia, Pa.

Sloan & Co. (Inc.) (Gold), 21 Maiden la, New
York

Stern Bros. & Co. (Gold & Silver), 68 Nassau,
New York

Waite-Thresher Co., Providence, R. I.

Whiting Co. (Gold & Silver), N. Attleboro,
Mass.

Thimbles (Stove Pipe)

Cheney, S. & Son, Manlius, N. Y.

City Forge & Iron Works, Dayton, O.
Logan Mfg. Co., Ottumwa, Ia.

Ohio Stove Pipe & Mfg. Co. (Adjustable), New
Philadelphia, Ohio

Rochester Radiator Co., Rochester, N. Y.

Stearns, E. C. & Co. ("McGuire," "Star"),
Syracuse, N. Y.

Thimbles (Wire Rope)

AMERICAN HOIST & DERRICK CO.,
St. Paul, Minn. (See adv. index & branch
offices, end of book)

BRODERICK & BASCOM ROPE CO.
(Steel), 809 N Main, St. Louis, Mo. (See
adv. index, end of book)

Contractors' Plant Mfg. Co., 129 Erie, Buffalo,
New York

Durable Wire Rope Co., Boston, Mass.

Hazard Mfg. Co., Wilkes-Barre, Pa., & 50
Dey, New York

Hubbard & Co., Pittsburg, Pa.

Jackson Mfg. Co. (Wire Rope, Bolt & Axle),
Harrisburg, Pa.

Lanz, Matthew & Sons, Pittsburg, Pa.

Laughlin, Thos. Co. (Steel), Portland, Me.

Leschen, A. & Sons Rope Co., St. Louis, Mo.

Macomber-Whyte-Moon Co., 122 Centre, New
York

MACOMBER & WHYTE ROPE CO.,
266 S. Clinton, Chicago, Ill. (See adv. index
& branch offices, end of book)

Sargent & Co. ("Rope"), New Haven, Conn.

TRENTON IRON CO., Trenton, N. J.,
& 30 Church, New York. (See adv. index,
end of book)

Western Block Co. (Steel), Lockport, N. Y.
Wilcox, Crittenden & Co., Middletown, Conn.
Williamsport Wire Rope Co. (Rope), Williams-
port, Pa.

WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices,
end of book)

*Third Rail Block System

WESTINGHOUSE ELECTRIC & MFG.
Co., Westinghouse bldg, Pittsburg, Pa. (See
adv. index & branch offices, end of book)

*Third Rail System (Electric)

(See also Insulators, Third Rail)

GENERAL ELECTRIC CO., Schenec-
tady, N. Y., & 30 Church, N. Y. (See adv.
index & branch offices, end of book)

WESTINGHOUSE ELECTRIC & MFG.
Co., Union Bank bldg, Pittsburg, Pa. (See
adv. index & branch offices, end of book)

Threaders (Wire Rod)

Goodell-Pratt Co. ("Peck's" Can be Held in
Any Vise), Greenfield, Mass.

Thresher Teeth

Akron Machine Co., Akron, O.
Avery Mfg. Co., Peoria, Ill.
Cambria Forge Co., Johnstown, Pa.
Christian, Jno., San Jose, Cal.
Keystone Drop Forge Works, (Drop Forged),
Chester, Pa.

Port Huron Engine & Thresher Co., Port
Huron, Mich.

Rhode Island Tool Co., (Steel), Providence,
R. I.

Transue & Williams Co. (Drop Forged), Al-
lance, O.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch
offices, end of book)

Threshers

Advance Thresher Co., Battle Creek, Mich.
Aultman & Taylor Machinery Co., Mansfield, O.
Avery Co. ("Avery"), Peoria, Ill.

Belle City Mfg. Co. (Small), Racine, Wis.
Bidwell C. H. Thresher Co. (Inc.), (Bean,
etc.), Batavia, N. Y.

Bowen & Quick, Anburn, N. Y.
Buffalo, Pitts Co., Buffalo, N. Y.
Cardwell Machine Co. (Rice, etc.), Richmond,
Case, J. I. Threshing Machine Co., Racine,
Champlin Thresher Co., Orrville, O. Wis.

Coleman Mfg. Co., Peoria, Ill.
Deats, Hiram, Jr. ("Little Wonder"), Pitts-
ton, N. J.

Ellis Keystone Agricultural Works ("Ellis-
Champion" Thresher & Cleaner), Potts-
town, Pa.

Fairbanks Steam Shovel Co., Marion, O.
Farquhar, A. B. Co. (Also Rice), York, Pa.
Frick Co., Waynesboro, Pa.

Gaar, Scott & Co. (Also Rice), Richmond, Ind.
Geiser Mfg. Co., Waynesboro, Pa.

Gill, W. E. (Corn & Oats Separators), Lake
Geneva, Wis.

Grant-Ferris Co. (Combined Oats & Straw, etc.),
Troy, N. Y.

Gray's, A. W. Sons, Middletown, Vt.
Harder Mfg. Co., Cobleskill, N. Y.

Harrison Machine Works ("Great Western"),
Belleville, Ill.

Heebner & Sons ("Little Giant," "Pennsyl-
vania"), Lansdale, Pa.

Hellman Machine Works, Evansville, Ind.
Huber Mfg. Co., Marion, O.

Hunt, Gilbert Co., Walla Walla, Wash.
Keck-Gonnermann, Mount Vernon, Ind.

Keller Mfg. Co., Sauk Center, Minn.
Kelly, O. S. Mfg. Co., Iowa City, Ia.

Kingsland Mfg. Co., St. Louis, Mo.
Kitten, F. Foundry & Machine Works, Ferd-
inand, Ind.

Massillon Engine & Thresher Co., Massillon, O.
Messinger Mfg. Co. (Thresher, Separator &
Cleaner), Tatamy, Pa.

Minneapolis Threshing Machine Co., Minneap-
olis, Minn.

Morningstar Mfg. Co., Napoleon, O.
New Jersey Agricultural Works (Butterworth
Bros.), Trenton, N. J.

Nichols & Shepard Co., Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.

Parlin & Orendorff Co., Canton, Ill.
Port Huron Engine & Thresher Co., Port Huron,
Reeves & Co., Columbus, O. Mich.

Rittenhouse, C. & Sons, Norristown, Pa.
Robinson & Co., Richmond, Ind.

Rumley, M. Co., Laporte, Ind.
Russell & Co., Massillon, O.

St. Albans Foundry & Implement Co., St. Al-
bans, Vt.

St. Johnsville Agricultural Works, St. Johns-
ville, N. Y.

Star Mfg. Co. (Corn), Carpentersville, Ill.
Stevens, A. W. Co., Marinette, Wis.

Westinghouse Co. (Combined Grain & Clover,
etc.), Schenectady, N. Y.

Threshers (Bean & Pea)

Aultman & Taylor Machine Co., Mansfield, O.
Buffalo Pitts Co. (Threshers & Cleaners), Buf-
falo, N. Y.

Nancy Hanks Hay Press & Foundry Co. (Pea),
Dalton, Ga.

Threshers (Corn)

Appleton Mfg. Co., Batavia, Ill.
Port Huron Engine & Thresher Co., Port
Huron, Mich.

Star Mfg. Co., Carpentersville, Ill.
Whitman Agricultural Co., St. Louis, Mo.

Threshers (Rice)

Aultman & Taylor Mach'y Co., Mansfield, O.
Harrison Machine Works ("Belleville"), Belle-
Reeves & Co., Columbus, Ind. ville, Ill.

Threshers (Straw Preserving & Rye)

Case, J. I., Threshing Machine Co., Racine,
Eddy, W. Plow Co., Greenwich, N. Y. Wis.

Grant-Ferris Co. (Combined Oats & Stralght
Straw Rye), Troy, N. Y.

Harder Mfg. Co. (Rye Thresher, Cleaner & Bind-
er Combined), Cobleskill, N. Y.

New Jersey Agricultural Works (Butterworth
Bros.), Trenton, N. J.

Port Huron Engine & Thresher Co., Port Huron,
Westinghouse Co., Schenectady, N. Y. Mich.

Threshers & Cleaners (Peanut)

Ellis Geystone Agricultural Works, Potts-
town, Pa.

*Throttles for Generator Valve

LUNKENHEIMER CO., General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch offices,
end of book)

Ticket Choppers & Destroyers

(See also Boxes, Ticket Cancelling)

Globe Ticket Co., 112 N 12th, Phila., Pa.
Patten, Paul B., Salem, Mass.

*Tickets (Metal Fare)

AMERICAN RAILWAY SUPPLY CO.,
26 Park pl, New York. (See adv. index,
end of book)

Tickets & Transfers (Street Railway)

Globe Ticket Co., 112 N 12th, Phila., Pa.
Hamilton Bank Note Engraving & Printing Co.,
88 Gold, New York

Keller Printing Co., 722 B'way, New York
Macdonald Ticket & Ticket Box Co., Cleveland,
National Ticket Co., Cleveland, O. Ohio

Ohmer Fare Register Co. (Transfers & Trans-
fer Issuing Machines), Dayton, O.

Reyburn Mfg. Co. (Tickets Only), 22nd &
Allegheny av, Phila., Pa.

Security Bank Note Co., 223 Chestnut, Phila.,
Stedman, J. H., Rochester, N. Y. Pa.

Stromberg, Allen & Co., 302 Clark, Chicago,
Ill.

Tie-Bolts

Cambria Steel Co. (Forged with Upset End or
Plain), Arcade bldg, Phila., Pa.

Ties (Bale)

ACME STEEL GOODS CO., 2834
Archer av, Chicago, Ill., 147 Lafayette,
New York, & Empire bldg, Atlanta, Ga.

(See adv. index, end of book)
Adams Steel & Wire Works, Joliet, Ill.

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)
Blakeslee, G. S. & Co., 325 Dearborn, Chicago,
Ill., & 260 W B'way, New York

Carnegie Steel Co. (Steel), Carnegie bldg,
Pittsburg, Pa.

Colorado Fuel & Iron Co., Denver, Col.
Crawfordsville Wire & Nail Co., Crawfords-
ville, Ind.

De Haven Mfg. Co., 153 Furman, Brooklyn,
N. Y.

Des Moines Bale Tie Co., Des Moines, Ia.
Downey, W. C. & Co. (Hay & Straw, Excel-
sior, etc.), Springfield, O.

Ertel, Geo. Co., Quincy, Ill.
Grand Crossing Tack Co., S. Chicago av. &
79th, Chicago, Ill.

Griswold Co. (Steel), Sterling, Ill.
Griswold Wire Co., Braddock, Pa.

Harry, O. K. Steel Co., St. Louis, Mo., &
Dallas, Tex.

Independent Steel & Wire Co., Pittsburg, Pa.
Indiana Steel Wire Co., Muncie, Ind.

Keystone Steel & Wire Co., Peoria, Ill.
Ohio Bale Tie Co. (Steel Wire), Cleveland, O.

Sandwich Mfg. Co., Sandwich, Ill.
Western Steel & Wire Co., Kansas City, Mo.

Wilson, H. P. & H. F., 577 10th av, New
York

*Ties (Concrete Steel, Railroad)

TRUSSED CONCRETE STEEL CO.,
Trussed Concrete bldg, Detroit, Mich. (See
adv. index & branch offices, end of book)

Ties (Cotton)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)
Atlanta Steel Co. (Steel), Atlanta, Ga.

Bierce, Wm. W. (Ltd.) (Jobber), Hennen bldg,
New Orleans, La.

Carnegie Steel Co. (Steel), Carnegie bldg, Pitts-
burg, Pa.

Colorado Fuel & Iron Co., Denver, Col.
Norfolk Iron Co., Norfolk, Va.

Pittsburg Steel Co., Pittsburg, Pa.
SHARON STEEL HOOP CO., Sharon,
Pa. (See adv. index, end of book)

*Ties or Compressors (Fodder)

HEARTLEY MACHINE, VARIETY IRON &
Tool Works, Toledo, O. (See adv. index,
end of book)

Ties, Poles & Posts

(See also Poles, Iron & Steel Trolley; also
Lumber Manufacturers)

ALABAMA.

CARNEY—Carney, J. A. (Ties)
COFFEE SPRINGS—Harris & Scandrett (Ties)

ARKANSAS.

CROSSETT—Crossett Lumber Co.
PARAGOULD—Bertig Bros. (Ties)

CALIFORNIA.

SAN FRANCISCO—Albion Lumber Co. (Ties),
Crocker bldg

Byxbee & Clark, Balboa bldg
Caspar Lumber Co. (Ties), Kohl bldg

Gray, Geo. D. & Co., Merchant Exch bldg
Hanify, J. R. & Co. (Ties), 24 Market

Hooper, C. A. & Co. (Ties), Balboa bldg
Nelson, Chas. Co., 112 Market

Pacific Lumber Co. (Inc.) (Ties, etc.),
Californis & Drum

Pacific Pine Co. (Ties), ft. of 3rd
Pope & Talbot (Piles, Spars, etc.)

Richardson Co., 42 Market
Union Lumber Co. (Poles & Ties), Crocker
bldg

Western Redwood Lumber Co. (Poles, Posts,
etc.), 268 Market

White, L. E. Lumber Co. (Ties, etc.), Bal-
boa bldg

Wood, E. K. Lumber Co., 5th & Channel

COLORADO.

DENVER—Western Lumber & Pole Co. (Red Cedar & White Cedar Poles)

CONNECTICUT.

NEW HAVEN—Upson & Grannis (Poles, etc.)

FLORIDA.

JACKSONVILLE—Hunter, Dexter (Ties)

GEORGIA.

BINGHAM—Dorminey, Kirkland & Co.
 BROOKER—Hinson, E. & Sons (Ties)
 BRUNSWICK—Aiken, Frank D. (Mfrs. Agt., Broadhead, Jas. E. (Ties, etc.) (Ties)
 Emanuel, N. & Co. (Ties)
 FACEVILLE—Rogers, J. T. (Cross Ties)
 DARIEN—Hilton & Dodge Lbr. Co.
 McPharland & Young (Ties)
 CUTLER—King, N. B. (Ties)
 SAVANNAH—Baxter, G. S. & Co. (Cross Ties)
 Cooney, Eckstein & Co. (Cross Ties)
 Craig, G. F. & Co. (Cross Ties)
 Dixon Lumber Co., Liberty & Wheaton
 Emanuel, N. & Co. (Cross Ties)
 Georgia Lumber Co.
 Granger & Lewis (Cross Ties)
 Heard Lumber Co.
 Hirsch Lumber Co. (R. R. Ties, etc.)
 Southern Pine Co. (of Ga.) (Ties, etc.)
 Woolley Tie Co.
 THOMASVILLE—Watt, Jas. Bro. & Co. (Ties)

IDAHO.

SAND POINT—Humbird Lumber Co. (Ltd.) (Red Cedar Poles)

ILLINOIS.

CHICAGO—Ayer & Lord Tie Co. (R. R. Ties), Railway Exch bldg
 Beidler, Francis & Co. (Idaho Cedar & Michigan White Cedar Poles, 40 ft. & up), 115 Adams
 Chicago Car Lumber Co. (R. R. Ties), Pullman bldg, 6 Adams
 Continental Lumber Co. (Ties, Poles & Posts), Monadnock blk
 Deeves, G. H. Lumber Co. (Ties), R'y Exch
 Fowler, Jno. H. & Co. (Cedar Ties, Poles, etc.), 279 Dearborn
 Gillis & Monlton (Ties, Poles & Posts), 204 Dearborn
 Holcomb-Lobb Co. (Ties, Poles & Posts, Cedar), 279 Dearborn
 Kellogg Switchboard & Supply Co. (White Cedar Poles, etc.), W Congress & Green
 Lake Superior Piling Co. (Poles, Posts & Piling), S. Morgan & W. 22d
 Lindsley Bros. Co. (Idaho Cedar & Michigan White Cedar Poles), 98 Jackson
 Marsh & Bingham Co. (Ties), Old Colony Bldg.
 Naugle Pole & Tie Co. (Ties, Poles & Posts), 1166 Paulina
 Raber & Watson (Cedar Ties, Poles & Posts), Old Colony bldg
 Ripley, Wm., & Son (Ties), 36 LaSalle
 Schultz Bros. & Cowen (Ties, Poles & Posts), Old Colony bldg
 Stone, Frank B. (Ties, Poles & Posts), 9 Jackson boul
 Valentine-Clark Co. (Cedar Poles, Telegraph Poles, Railroad Ties, etc.), 234 LaSalle
 Worcester, C. H. Co., 143 Dearborn
 McLEANSBORO—Wilson, Jno. H. (Ties)

INDIANA.

ELKHART—Mann, W. N. Lumber Co.
 MEDORA—Medora Milling Co. (Chestnut Poles 40 ft. & up)
 RICHMOND—Johnson, B., & Son (R. R. Ties, Poles, etc.)

KENTUCKY.

JACKSON—Day Bros. Co. (Ties)
 LOUISVILLE—Hughes, W. J. & Sons Co.
 Ohio Valley Tie Co. (R. R. Ties)
 PADUCAH—Paducah Pole & Timber Co. (Chestnut Poles)

LOUISIANA.

DONNER—Dibert, Stark & Brown Cypress Co.
 NEW ORLEANS—American Creosote Works (Creosoted Ties & Poles)
 SLIDELL—Slidell Brick & Lmbr. Co. (Henso & Foundation Piling)

MARYLAND.

BRANDYWINE—Robinson, A. T. (Ties)

MASSACHUSETTS.

BOSTON—Nashua Spool & Bobbin Co. (R. R. Ties & Telegraph & Telephone Posts), Journal bldg

MICHIGAN.

AU SABLE—Loud's, H. M. Sons Co. (Ties)
 BAY CITY—Maltby Cedar Co. (Ties, Poles & Posts)
 Michigan Pipe Co. (Ties, Poles & Posts, Creosoted)
 BOYNE CITY—White, Wm. H., & Co. (Cedar Ties & Posts)
 DAGGETT—Perrizo & Sons (Poles & Posts)
 DETROIT—Brownlee & Co. (Poles & Posts), Telegraph bldg
 Detroit Cedar & Lumber Co., Chamber of Commerce bldg
 Detroit Lumber Co., 1311 Gratiot av
 Grace Harbor Lumber Co. (Ties, Poles and Posts), ft of McKinstry av
 Standard Tie Co., Cham. of Com. bldg
 ESCANABA—Erickson & Bissell (Cedar Ties, Poles, Posts & Tilling)
 Pittsburg & Lake Superior Iron Co. (Cedar Ties, Poles, Posts & Piling)
 GRAND RAPIDS—Dregge, Chas., Lumber Co. (Chestnut & Cypress Poles)
 Union City Lumber Co.
 HARDWOOD—Anderson, P. J.
 HERMANVILLE—Wisconsin Land & Lumber Co. (Cedar Ties, Poles & Posts)
 HONOR—Guelph Patent Cask Co. (Ties)
 INGALLS—Carley, Ira
 MENOMINEE—Girard Lumber Co. (Ties, Poles & Posts)

Huebel, C. J., Co. (Idaho Cedar & Michigan White Cedar Poles 40 ft. & up)
 MONROE—Sterling, W. C. & Son (Ties, Electric Light Poles, etc.)
 MULLET LAKE—Rittenhouse, John C. (Ties, Poles & Posts)
 NEWHALL—National Pole Co. (Whol Cedar Prods)
 OMER—Sterling, W. C. & Son (Ties, Poles & Posts)
 ONAWAY—Lobdell & Churchill Mfg. Co. (Ties, Poles & Posts)
 OSCODA—Loud's, H. M. Sons Co. (Poles & Posts)
 RAPID RIVER—Madden, Jerry, Shingle Co.
 SAGINEW—Porter Cedar Co. (Poles & Posts, Cedar)
 ST. IGNACE—Connor & Bissell (Cedar Ties, Telegraph Poles, etc.)
 VANDERBILT—Sterling, W. C. & Son
 WELLS—Ford River Lumber Co. (Ties, Poles & Posts)

MINNESOTA.

CLOQUET—Cloquet Tie & Post Co.
 DULUTH—Duluth Log Co. (White Cedar Poles & Posts)
 Lake Superior Piling Co. (Poles & Posts), Torrey bldg
 Martin Bros.
 Martin, L. R. (Ties, Poles & Posts)
 Sherwood, Wm. C. (Ties, Poles & Posts)
 MINNEAPOLIS—Backus-Judd Lumber & Cooperage Co. (White Cedar Poles), Lumber Exchange bldg
 Cooperage Co. (White Cedar Poles), Lumber Exchange bldg
 Coolidge, M. H., Co. (Ties, Telegraph & Telephone Poles), Guaranty bldg
 Everts & Fall (Ties, Poles & Posts), 400 Lumber Exch
 Minneapolis Cedar & Lumber Co., Lumber Exch
 Morrison, J. W., Lumber Co. (White Cedar Poles)
 Pillsbury-Watkins Co., Lumber Exch

MISSISSIPPI.

GULFPORT—Naylor, S. E. (R. R. Ties)

MISSOURI.

CABOOL—Grant, S. W. (Posts, etc.)
 CAMPBELL—S. E. Missouri Cypress Co.
 Taylor, Lee J. (Cypress Poles)
 ELDON—Harvey & Phillips (Ties)
 KANSAS CITY—Sedgwick Tie Co. (Ties, Poles, etc.), Beals Bldg.
 MONTGOMERY CITY—Ferguson & Co. (R. R. Ties)
 POPLAR BLUFF—Jacobs, E.
 ST. LOUIS—Abeles & Taussig (Ties), Commercial bldg
 Bagnell Timber Co. (Ties), 706 Chestnut
 Berthold & Jennings (Piling Telegraph Poles, etc.), 207 N 8th
 Chicago Lumber & Coal Co. (Poles, Posts & Hearne Timber Co. (White & Red Oak Ties, Cypress Poles & Piling), 122 N 7th
 Heller, Michael J. (Ties), 2524 N Grand

Moss, T. J. Tie Co. (Oak, Cypress & Chestnut Ties & Cypress Trolley Poles), 319 N 4th
 Western Tie & Timber Co. (Ties), Century bldg

MONTANA.

HERON—Churchill Cedar Co.

NEW HAMPSHIRE.

MILFORD—Pelce, W. E. & Co. (Ties, Poles & Posts)

NEW JERSEY.

CAMDEN—Baird, David & Co. (Poles & Posts, Trolley, etc.)
 FLEMINGTON—Broadhead, J. E. (Ties, etc.)

NEW YORK.

ALBANY—Hunter, Dexter (Ties), Water & Lawrence
 BUFFALO—Curtiss, W. L. (Ties), Prudential
 Elias, G. & Bro., 965 Elk Bldg.
 Wheeler-Holden Co., Erie Co., Bank bldg
 ELLENVILLE—Cox Bros. (Ties, Poles, Posts, etc.)
 NEW YORK—Apex Equipment Co. (R. R. Ties Only), 11 B'way, New York
 Baxter, G. S. & Co. (Ties), 17 William
 Cooney, Eckstein & Co. (R. R. Ties), 66 Broad
 Corbett & Co., 429 E 109th
 Hunter, Dexter (Ties), 18 B'way
 Richardson, G. E., 123 Liberty
 Roper, John L. Lumber Co. (Ties), 18 B'way
 Vanderbilt, Edw. W. (Ties), 126 Liberty
 Wyckoff Pipe & Creosoting Co. (Creosoted Ties & Poles), 50 Church
 OSWEGO—Farwell, J. B. & Son (Cedar Poles)
 WAVERLY—Baldwin, H. J. & Son (Ties)

OHIO.

CINCINNATI—Chaney, W. G., Swift bldg
 Doran & Co., Bell blk
 Farrin-Korn Lumber Co. (Oak, R. R. Ties, Posts, etc.), Winton pl
 Keefer Railway Tie Co., Bell blk
 CLEVELAND—Advance Lumber Co., Rockefeller bldg
 IRONTON—Ironton Cross Tie Co. (Ties)
 TOLEDO—Bissell, F., Co. (Cedar Poles)
 Davidson-Gallmeyer Lumber Co. (White Cedar Poles)

OREGON.

PORTLAND—Broughton & Wiggins Co., 92 1st
 Lindsay Bros. Co. (Ties, Poles & Posts), Sherlock bldg

PENNSYLVANIA.

LANCASTER—Kalbach, A. M.
 LIVERPOOL—Grubb, M. H. (Ties Only)
 PHILADELPHIA—Greenbrier Pole Co., Real Estate Trust Co. bldg
 Hallowell, E. B. & Co. (Ties, Poles & Posts), Harrison bldg
 Howard Supply Co. (Ties), Witherspoon bldg
 Kirby & Hawkins Co. (Ties), Arcade bldg
 Maus, H. H. & Co. (R. R. Ties, Poles, etc.), 420 Walnut
 Roper, Jno L. Lumber Co. (Ties), Franklin Bank bldg
 Union Railway Supply Co. (Electric Railway Ties & Poles), Real Estate Trust Co. bldg
 PITTSBURG—Cheat River Lumber Co. (Cross Ties, Telephone Poles, etc.)
 Enos, W. B. & Co. (Ties), Allegheny av
 Gillespie, D. L. & Co. (Ties), 541 Wood
 Glenn-Kline Lumber Co. (Ties, Posts & Piling), 5941 Baum
 Mead & Speer Co. (Ties), Park bldg
 Thompson, Dwight (Cross Ties), Honse
 ROCKWOOD—Wolf, Penrose (Ties) bldg
 THOMPSONTOWN—Thompson, Theo. S. (Estate of) (Ties)
 TIONESTA—Forman, H. M. (Ties)

SOUTH CAROLINA.

ALCOLU—Alderman, D. W. & Sons Co. (Octagonal or Square Poles)
 CHARLESTON—Anderson Lumber Co. (Ties)
 MAYESVILLE—Bland, Jas. F. (Cross Ties)

TENNESSEE.

LEWISBURG—Houston & Liggett (Cedar Poles & Posts)
 NASHVILLE—Ransom, Jno. B. & Co. (Red Cedar Posts & Poles)

TEXAS.

BEAUMONT—Keith Lumber Co. (Ties)
Nona Mills Co. (Ties)
GALVESTON—Helskell, Jas M. (R. R. Ties)
Miller & Vidos Lumber Co.
Wilson, D. M. & Co. (Ties)
HOUSTON—Carter Lumber Co. (Ties, etc.)
Emporia Lumber Co. (Ties)
Kirby Lumber Co. (Ties, etc.)

VIRGINIA.

NORFOLK—Roper, Jno. L. Lumber Co. (Ties),
3 Division
PORTSMOUTH—Wyckoff Pipe & Creosoting
Co. (Creosoted Ties & Poles)
RICHMOND—Conquest, Pleasanton L. (Ties).
1001 E Main
Johnson & Briggs (Ties), 819 E Main
Richmond Tie & Lbr. Co. (Ties), 4 N 10th
TALLEYSVILLE—Richardson, B. E. (Ties)

WASHINGTON.

NAPAVINE—Central Lumber Co. (Piling, Posts
& Poles)
PORT BLAKELEY—Port Blakeley Mill Co.
(Ties)
SEATTLE—Folsom, F. H. (Ties, Poles, etc.),
Colman Dock
Gamwell & Wheeler (Cedar Poles, Fir Piling,
Masts & Spars, etc.)
Northwest Lumber Co. (Spars, Piles & Tele-
graph Poles)
Pacific Fir Co. (Ties), D. Horton B'k bldg
Puget Sound Timber Preserving Co., Globe
SPOKANE—Churchill Cedar Co.
Lindsay Bros. Co. (Cedar Poles)
Pacific Coast Pole Co.
TACOMA—Tacoma Mill Co. (Piles & Telephone
Poles)

WEST VIRGINIA.

CHARLESTON—Courtney, D. G. (R. R. Ties)
HUNTINGTON—Howard Supply Co. (Ties)
TERRA ALTA—Rinard Bros. (Poles, etc.)

WISCONSIN.

CLINTONVILLE—Torrey Cedar Co. (Poles &
Posts)
DUNBAR—Girard Lumber Co. (Ties, Poles &
Posts)
MARINETTE—Worcester, C. H. Co. (Cedar
Wright Bros. Poles)
MARSHFIELD—Connor, R. Co. (Cedar Poles
& Posts)
MILWAUKEE—Cooper & Maxson Lumber Co.
(Cedar Poles & Posts)
WASHBURN—Jacobs-McDonnell Co. (Cedar
Posts, etc.)
WAUSAUKEE—Bird & Wells Lumber Co. (Cedar
Ties, Poles & Posts)
WITTENBERG—Glaubitz, R. B. (Posts &
Poles)
Wittenberg Cedar Co. (Cedar Poles)

Ties (Reinforced Concrete)

Blessing, Louis, Jackson, Mich.
International Malleable Steel Tie Co., Mus-
kegon, Mich.

Ties (Steel Railroad)

American Railway Tie Co., 50 B'way, New
York
Carnegie Steel Co., Carnegie bldg, Pittsburg,
Pa.
Jones & Laughlin Steel Co. ("McCune"), Pitts-
burg, Pa.
KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
COMPANY.

475 Fulton bldg. New York. (See adv. in-
dex & branch offices, end of book)

Tile (Art & Decorative)

(See also Tile, Encaustic Floor)

Albambra Tile Co., Newport, Ky.
American Encaustic Tiling Co., Zanesville, O.,
& 1123 B'way, New York
Beaver Falls Art Tile Co., Beaver Falls, Pa.
Cambridge Tile Mfg. Co., Covington, Ky.
Imperial Porcelain Works, Trenton, N. J.

JACKSON, WM. H. COMPANY (Dealers in
All Kinds of Art & Decorative Tiles), 29
E. 17th (Union sq), New York, & 163
Michigan av, Chicago, Ill. See adv. index,
end of book)

Lage, (Mrs.) Bernhard H., 484 Greenwich,
New York. Factory, Menlo Park, N. J.
Mosaic Tile Co. (Ceramic, Enameled & Glazed),
Zanesville, O., & 109 W. 26th, New York
Matawan Tile Co., Matawan, N. J.
National Tile Co., Anderson, Ind.
New Jersey Tile Co., Trenton, N. J.
Ohio Tile Co., Hamilton, O.
Old Bridge Enameled Brick & Tile Co., Old
Bridge, N. J.

Opalite Tile Co., Monaca, Pa.
Pardee, C. Works, Perth Amboy, N. J.
Providential Tile Co., Trenton, N. J.
Robertson Art Tile Co., Morrisville, Pa.
Star Encaustic Tile Co., Pittsburg, Pa.
Trent Tile Co., Trenton, N. J.
U. S. Encaustic Tile Co., Indianapolis, Ind.

Tile (Bake Oven)

La Clede-Christy Clay Products Co., St. Louis,
Mo.

MAURER, HENRY & SON, 420 E. 23d, N.
Y.; Penna. bldg, Phila., Pa. Works,
Maurer, N. J. (See adv. Front Inside
Cover)
Presbrey Stove Lining Co., Taunton, Mass.

Tile (Cement Floor)

AMERICAN CONCRETE CO., 80 Wil-
liam, New York. (See adv. index, end
of book)
Ornamental Tile Co. ("Ornatile," Colored Deco-
rative), 138 Washington, Chicago, Ill.

*Tile (Concrete Structural)

AMERICAN CONCRETE CO., 80 Wil-
liam, New York. (See adv. index, end
of book)

Tile (Cork)

Armstrong Cork Co., Pittsburg, Pa.
Nonpareil Cork Works, 50 Church, New York

Tile Dealers (Floor & Wall)

(See Mantel, Grate & Tile Dealers)

Tile (Drain)

Aiken Fire & Ornamental Brick, Co., Aiken,
S. C.
Akron Vitrified Clay Mfg. Co., Akron, O.
Allen, Geo., Jeffersonville, O.
American Brick & Tile Co., Mason City, Ia.
American Clay Mfg. Co., Akron, O.
American Clay Products Co., 138 Washing-
ton, Chicago, Ill.

AMERICAN CONCRETE CO., 80 Wil-
liam, New York (Cement & Concrete).
(See adv. index, end of book)

Argillo Works, Rock Island, Ill.
Bennett, M., Sidney, O.
Bennett, W. F. & Co., Galena, O.
Boynton, C. W., Seward, N. J.
Brandt Clay Product Co., Binghamton, N. Y.
Works, Brandt, Pa.

Butte Sewer Pipe & Tile Co., Butte, Mont.
Chattanooga Sewer Pipe & Fire Brick Co.,
Chattanooga, Tenn.
Clark, N. & Sons, 17 Spear, San Francisco,
Cal., & Alameda, Cal.

Clarke & Leacock, Keota, Ia.
Clearfield Clay Working Co., Clearfield, Pa.
Cooper, Jno., 496 Oakland, Brooklyn, N. Y.
Dawson Brick & Tile Co., Springfield, Ill.
Denny-Renton Clay & Coal Co., Seattle, Wash.
Dickey, W. S. Clay Mfg. Co., Kansas City, Mo.
Dieffenthaler Co., Millbury, O.
Dorney & Harris, Finlay, O.
Duffy, J. P. Co., 440 E. 138th, New York
Evans & Howard Fire Brick Co., 920 Market,
St. Louis, Mo.

Everal, J. W., Westerville, O.
First Av Brick & Tile Co., Evansville, Ind.

FISKE & COMPANY (Inc.) (Mfrs.,
Agts.), 25 Arch, Boston, Mass., & Flat-
iron bldg, New York. (See adv. index, end
of book)

Fox, E. P., Sheffield, Iowa
Gerhard, Frank J., 110 Belmont av., Newark
Goodell, Adison Tile W'ks, Loda, Ill.
N. J.
Goodwin Tile & Brick Co., Grand Junction, Ia.
Hickory Run Brick Co., Allentown, Pa.
Hillsboro Brick & Tile Co., Hillsboro, Ill.
Iowa Pipe & Tile Co., Des Moines, Ia.
Jackson, John H., Albany, N. Y.

Joliet Mound Drain Tile Co., Joliet, Ill.
Laucaster Brick & Tile Co., Builders' Exchange,
Buffalo, N. Y.

Lehigh Sewer Pipe & Tile Co., Fort Dodge, Ia.
Little Falls Fire Clay Co., Tacoma, Wash.
Works, Little Falls, Wash.

McCord, Seely, Benton Harbor, Mich.
Martin & Von Owen,
Mason City Brick & Tile Co., Mason City, Ia.
Mason City Clay Works, Mason City, Ia.
Mason, R. H. & Son, Monroeville, O.
Mecca Clay Works (Wm. E. Dee, Prop.), 114
Quincy, Chicago, Ill. Works, Mecca, Ind.

Mishler Bros., Ravenna, O.
Mitchell & Moore, Newberg, Ore.
Monmouth Mining & Mfg. Co., Monmouth, Ill.
National Terra Cotta Works, 316 13th, N. W.,
Washington, D. C.

New York Pottery Co., 949 B'way, New York
Northwestern Clay Co., New Windsor, Ill.
Onondaga Vitrified Brick Co., Syracuse, N. Y.
Pacific Clay Mfg. Co., Los Angeles, Cal.
Peck, Richard, East Bethany, N. Y.

Pierson, Arthur & Co. (Mfrs. Agents), 1 Park
Row, New York
Pittsburg Sewer Pipe & Conduit Co., Pittsburg,
Kans.

Pomona Terra Cotta Co., Pomona, N. C.
Prane, F. J., Shiloh, O.
Purcell, Geo. W., Union, O.

Richeson & Nelson, Greenville, O.
Robinson Clay Product Co., Akron, O.
Rochester Brick & Tile Mfg. Co., Powers blk.,
Rochester, N. Y.

Rochester Sewer Pipe Co., Rochester, N. Y.
Rockets Brick & Tile Co., Richmond, Va.
St. Clair Tile Co., Eaton, O.
San Antonio Sewer & Pipe Mfg. Co.
Shaw, C. E., Iowa Falls, Ia.
Southern Brick & Tile Co., Louisville, Ky.
Standard Sewer Pipe Co., Rochester, N. Y.
Steiger Terra Cotta & Pottery Wks., San
Francisco, Cal.

Stevens, H. Sons Co., Macon, Ga.
Streator Clay Mfg. Co., Streator, Ill.
Swift Terra Cotta Brick & Tile Co., Ottawa, Ill.
Terrell & Son, Newberg, Ore.
Troy Fireproofing Co., Troy, N. Y.
Utica Brick & Tile Co., Utica, N. Y.
Vigo Brick & Tile Co., Vigo, O.
Whipple & Hull, Leonardsbury, O.
White, S. C., Lapel, Ind.
Williams, N. A. Co., Chamber of Commerce bldg,
Chicago, Ill.

Tile (Effectile)

Enameled Art Metal Co. (Porcelain Enam-
eled on White Metal), 20 E. Herman, Gtn.,
Phila., Pa.

Tile (Enameled)

American Encaustic Tiling Co., 1123 B'way,
New York, & Zanesville, O.
Beaver Falls Art Tile Co., Beaver Falls, Pa.
Cambridge Tile Mfg. Co., Covington, Ky.
Mosaic Tile Co., Zanesville, O., & 109 W 26th,
New York
Old Bridge Enameled Brick & Tile Co., Old
Bridge, N. J.
Providential Tile Co., Trenton, N. J.
Tiffany Enameled Brick Co., Mokena, Ill.
Zanesville Tile Co., Zanesville, O.

Tile (Enameled Metal)

American Locktile Co., Alexandria, Va.
Chicago Mettile Co., 152 Lake, Chicago, Ill.
Enameled Art Metal Co. ("Effectile" is an
Enameled Sheet Zinc, an Imitation of Clay
Tile), 20 E. Herman, Gtn, Phila., Pa.
Mettile Construction Co., 22 E 22d, New York
NEW YORK METAL CEILING CO., 537 W
24th, New York. (See adv. index, end of
book)
Sanitary Metal Tile Co. (For Walls & Cell-
ings), 33 Prospect, Brooklyn, N. Y.
Stengel Bros. Co. ("Mettile"), Pittsburg, Pa.
United Mettile Co. (Ltd.), Boston, Mass.

Tile (Encaustic Floor)

American Encaustic Tiling Co., Zanesville, O.,
& 1123 B'way, New York

Art Mosaic & Tile Co., Toledo, O.
Cambridge Tile Mfg. Co., Covington, Ky.
Mosaic Tile Co., Zanesville, O., & 09 W 26th,
National Tile Co., Anderson, Ind. New York
New York Vitrified Tile Co., 79 4th, Brooklyn,
N. Y.

Robertson Art Tile Co., Morrisville, Pa.
Star Encaustic Tile Co., Bluff nr Grist, Pitts-
burg, Pa.
U. S. Encaustic Tile Works, Indianapolis, Ind.
Zanesville Tile Co., Zanesville, O.

Tile (Floor or Porch)

New York Press Brick Co. (Vitrified Red Shale),
Rochester, N. Y.

Tile (Glass)

Federal Tile Co. (Wall), 131 W 24th, New York
Manhattan Glass Tile Co., 218 7th ave, New York
New York Structural Glass Co., 48 W 34th,
New York

***Tile (Green House)**

MAURER, HENRY & SON, 420 E.
23d, New York. (See adv. front inside cover)

Tile (Hydraulic Mosaics)

Raventos Tile & Cement Co., San Francisco, Cal.

***Tile (Illuminating, Wholesale Mfrs.)**

RODEFER, T. A., Bellaire, O. (See adv. index, end of book)

Tile Importers

Schroeder, Rudolph (French Flint), 32 B'way, New York

Tile (Interlocking Metal)

American Lockite Co., Alexandria, Va.

Tile ("Moravian")

Moravian Pottery & Tile Works (Glazed & Unglazed, in Various Colors), Doylestown, Pa.
Zanesville Tile Co., Zanesville, O.

Tile (Mosaic Ceramic Floor)

American Encaustic Tiling Co., 1123 B'way, New York, & Zanesville, O.
Art Ceramic Works, Zanesville, O.
Art Mosaic Tile Co., Toledo, O.
Cambridge Tile Mfg. Co., Covington, Ky.
Lage, (Mrs.) Bernhard H., 484 Greenwich, New York. Factory, Menlopark, N. J.
Lage, Otto C., 192 E 76th, New York
Matawan Tile Co., Matawan, N. J.
Mosaic Tile Co., Zanesville, O., & 109 W 26th, New York

National Mosaic Flooring Co., Mobile, Ala.
National Tile Co., Anderson, Ind.
Perth Amboy Tile & Ceramic Co., Perth Amboy, N. J.

Providential Tile Co., Trenton, N. J.
Robertson Art Tile Co., Morrisville, Pa.
Trent Tile Co. (Vitrified & Glazed), Trenton, N. J.

United States Encaustic Tile Co., Indianapolis, Ind.

Tile (Non-Absorbent Floor)

American Encaustic Tiling Co., 1123 B'way, New York, & Zanesville, O.
Cambridge Tile Mfg. Co., Covington, Ky.
Trent Tile Co., Trenton, N. J.
Zanesville Tile Co., Zanesville, O.

Tile (Opalite)

Opalite Tile Co., Monaca, Pa.

***Tile (Promenade)**

LUDOWICI-CELADON CO., 509 Chamber of Commerce bldg, Chicago, Ill. (See adv. index & branch offices, end of book)

Tile (Roofing)

(See Roofing Tile, Various Kinds)

Tile (Rubber)

(See also Mats & Matting, Rubber)

Baltimore Rubber Co. (Interlocking), Baltimore, Md.

Continental Rubber Works (Interlocking), Erie, Pa.

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Goodrich, B. F. Co. (Interlocking), Akron, O.
Goodyear Tire & Rubber Co. (Interlocking), Akron, O.

GRISCOM-SPENCER CO. ("Anchor Brand"), 90 West, New York, & ft. Washington av, Phila., Pa. (See adv. index & branch offices, end of book)

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Manhattan Rubber Mfg. Co., 18 Vesey, New York

National Metal Back Rubber Tiling Co., Betz bldg, Phila., Pa.

New York Belting & Packing Co. (Ltd.) (Interlocking), 91 Chambers, New York

PENNSYLVANIA RUBBER CO., ("Pennsylvania" Interlocking), Jeannette, Pa. (See adv. index & branch offices, end of book)

Republic Rubber Co., Youngstown, O.

United & Globe Rubber Mfg. Co., Trenton, N. J.

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Tile (Sidewalk)

(See also Brick Manufacturers, Vitrified Paving)

Hocking Valley Fire Clay Co., Nelsonville, O.

Logan Brick Mfg. Co. (Vitrified Glazed), Toledo, Ohio. Works, Logan, Ohio

Mason City Brick & Tile Co. (Vitrified), Mason City, Ia.

Nelsonville Brick Co., Nelsonville, Ohio

Solsson, Jos. Fire Brick Co., Connelisville, Pa.

Wabash Clay Co., Veedersburg, Ind.

Tile (Slate)

(See Slate Floor Tile)

Tile (Terra Vitrae)

American Encaustic Tiling Co., 1123 B'way, New York, & Zanesville, O.

Hartford Faience Co., Hartford, Conn

Zanesville Tile Co., Zanesville, O.

Tile (Vitreous Floor)

AKRON ROOFING TILE CO. (Quarries), Akron, O. (See adv. index & branch offices, end of book)

Alexander & Reed Co., 127 E 23d, New York

Alhambra Tile Co., Newport, Ky.

American Encaustic Tiling Co., 1123 B'way, New York, & Zanesville, O.

Cambridge Tile Mfg. Co., Covington, Ky.

FLEMING & CO. (Red, Buff & Black Quarries), 253 B'way, New York. (See adv. index, end of book)

Lage (Mrs.), Bernhard H., 484 Greenwich, New York. Factory, Menlopark, N. J.

Lage, Otto C., 192 E 16th, New York

Mosaic Tile Co. (also Semi-Vitreous or Encaustic), Zanesville, O., & 109 W 26th, New York

New York Vitrified Tile Works, 79 4th, Brooklyn, N. Y.

Perth Amboy Tile & Ceramic Co., Perth Amboy, N. J.

Providential Tile Co., Trenton, N. J.

Robertson Art Tile Co., Morrisville, Pa.

Rossmann, Robert, 149 W 24th, New York

Trent Tile Co. (White & Colored), Trenton, N. J.

United States Encaustic Tile Co., Indianapolis, Ind.

Zanesville Tile Co., Zanesville, O.

Tiling (Acid Proof)

(For Chemical Works)

La Clede-Christy Clay Products Co., St. Louis, Mo.

Reconstructed Granite Co., 14 Dey, New York; Works: Norristown, Pa.

Tiling (Interlocking Rubber)

(See Firms in Tile, Rubber, with the word "Interlocking" following their Name)

Tills (Alarm)

Chicago Scale Co., 292 Jackson boui, Chicago, Ill.

Miles Alarm Tili Mfg. Co., Providence, R. I.

Russell & Edwin Mfg. Co., New Britain, Conn., & 89 Lafayette, New York

Tucker & Dorsey Mfg. Co. ("Tucker"), Indianapolis, Ind.

Time Detectors

(See Clocks, Watchman's)

Time Recorders

(See also Clocks, Time Recording System)

American Watchman's Time Detector Co. ("Cleveland Magneto"), 206 E 4th, S E, Cleveland, O.

BRISTOL CO. (Electric), Waterbury, Conn., & 114 Liberty, New York. (See adv. index & branch offices, end of book)

Buerk, J. E. ("Buerk"), 230 Washington, Boston, Mass.

Bundy, W. H. Recording Co., Syracuse, N. Y.

Cincinnati Time Recorder Co., Cincinnati, O.

Crouse-Hinds Co. ("Hawley"), Syracuse, N. Y.

Dey Time Register Co., Endicott, N. Y.

Du Vivier, Ernest H., 30 Church, New York

Follett Time Recording Co., 173 Greenwich, New York

General Watchmen's Time Detectors Co., 92 Chambers, New York

Herzog Teleseme Co., 137 W 24th, New York

Holtzer-Cabot Electric Co. ("Watchmen's"), Brookline, Mass.

HOWARD, E. CLOCK CO., 373 Washington, Boston, Mass. (See adv. index & branch offices, end of book)

HOWARD TIME RECORDERS

for registering the coming and going of employees are simple and effective, in fact, the simplest in the market. *Made in the 75 number size only; price \$80.00 net, F. O. B. factory, including the in and out device, which prevents confusion of record.

The E. Howard Clock Co.

373 Washington St., Boston, Mass.

67 Maiden Lane, New York, N.Y.

103 State Street, Chicago, Ill.

Imbauser, E. & Co. ("Watchman's"), 202 B'way, New York
 International Time Recording Co. ("Rochester," "Bundy," "Chicago" & "International Card"), Binghamton, N. Y.
 Nanz & Co., 127 Duane, New York.
NATIONAL GAUGE CO. ("Imperial," Portable), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
 National Time Recorder Co., 240 W Lake, Chicago, Ill.
 Penfield, C. M., Hartford, Conn.
 Pettes & Randall Co., 150 Nassau, New York
 Sanford, C. E., 18 Broadway, New York
 Simplex Time Recorder Co. ("Simplex" Employee's), Gardner, Mass.
 Stambaugh, Wm. B. (Automatic Time Dating Machines), Metropolitan Life bldg, New York
 Syracuse Time Recorder Co., Syracuse, N. Y.

Timeometers

Automatic Time Stamp Co. (For Telephone Toll Line Switchboards), 160 Congress, Boston, Mass.

Timers (Spark)

Altamus, C. L. & Co. ("Altamus" & "Bowles"), The Bourse, Phila., Pa.
 American Coil Co., Foxboro, Mass.
 Atwater-Kent Mfg. Works, 42 N 6th, Philadelphia, Pa.
 Beckley-Ralston Co., 80 Mich. av, Chicago, Ill.
 Bemus, T. Alton Co., 294 Wash'n, Boston, Mass.
 Bosch, Robert, 160 W 56th, New York
 Brooklyn Automobile Co. ("Leavitt"), 1239 Fulton, Brooklyn, N. Y.
 Brock-Barbier Auto Ignition Co., 143 W 54th, New York
 Byrne, Kingston & Co., Kokomo, Ind.
 Champion, Albert Co. ("Nieuport" Sole Agents), 541 Tremont, Boston, Mass.
 Connecticut Telephone & Electric Co., Meriden, Conn.
 Continental Engine Co. ("C. E."), Fisher Bldg., Chicago, Ill.
 Crouse-Hinds Co., 232 Water, Syracuse, N. Y.
 Dayton Electrical Mfg. Co., 89 St. Clair st, Dayton, Ohio
 Dow Portable Electric Co., Braintree, Mass.
 Fulmer, C. F. ("Invincible"), Plainfield, N. J.
 Hardy, R. E. Co., The, 86 Watts, New York
 Hawkins Mfg. Co., 506 Atlantic av, Boston.
 Herz & Co., 205 Lafayette, N. Y.
 Illinois Automobile & Parts Co. ("Holtz"), Peoria, Ill.
 Kellogg Mfg. Co., Rochester, N. Y.
 Kokomo El. Co., Kokomo, Ind.
 Kowalsky Engine Co., Verona, Pa.
 Lindsay, A. M. Igniter Co., 2508 Third av S, Minneapolis, Minn.
 Milwaukee Auto Eng. & Supply Co., 706 Winnebago, Milwaukee, Wis.
 Mosler, A. R. & Co. (Inc.) ("Eccentric"), 163 W 29th, New York
 New York Coil Co., 338 Pearl, New York
 Pittsfield Spark Coil Co. (Secondary Distributors), Dalton, Mass.
 Post & Lester Co. ("E. I. C."), Hartford, Conn.
 Powell Muffler & Timer Mfg. Co. ("Twentyeth Century"), Utica, N. Y.
 Providence Spark Coil Co., 143 Summer, Providence, R. I.
 Quad Mfg. Co., 37 S. Scioto, Columbus, Ohio
 Rubay, Leon, 140 W. 58th, New York
 Schug El. Mfg. Co., 320 Jefferson av, Detroit, Mich.
 Sintz, Guy L., 255 S Front, Grand Rapids, Mich.
 Splittorf, C. F., 17 Vandewater, New York
 Thurston, F. A., 356 E 57th, Chicago, Ill.
 Uncas Specialty Co., Norwich, Conn.
 Westernfield Motor Co., Anderson, Ind.
 Youse, E. S., Reading, Pa.
 Zimmerman-Smith Co., N. Tonawanda, N. Y.

Tin (Bar & Pig)

American Metal Co., 52 B'way, New York
 Chadwick-Boston Lead Co., Boston, Mass.
 Davol, Jno. & Sons, 100 John, New York
 Gilbert, A. & Sons Brass Foundry, St. Louis.
 Hayman, Mich'l & Co., Buffalo, N. Y.
 Hendricks Bros., 49 Cliff, New York
 Hofeller Smelting & Refining Co., Buffalo, N. Y.
 Hungerford, U. T. Brass & Copper Co., 497 Pearl, New York
LEAVITT, C. W. & CO. (Pig Tin Only), 30 Church, New York. (See adv. index, end of book)
 Lisberger, B. & Co., 739 E 14th, New York

Lisberger, Marks & Son, 281 Borden av, Brooklyn, N. Y.
 Los Angeles Smelting & Refining Co., Los Angeles, Cal.
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Peerless Alloy Co., Denver, Col.
 Selby Smelting & Lead Co., San Francisco, Cal.
 Waite, Ranlet & Co., Boston, Mass.
WALSH'S SONS & CO., Newark, N. J. (See adv. index, end of book)
 Woodfall Bros., 1105 Fairmount av, Phila., Pa.

Tin Crystals

Butterworth-Judson Co., Newark, N. J.
 Cochran Chemical Co., Boston, Mass.
 General Chemical Co., 25 Broad, New York
 Grasselli Chemical Co., The Arcade, Cleveland, O., & 63 Wall, New York
 Merrimac Chemical Co., Boston, Mass.

Tin Ears

Horan Stay Hanger Co. (For Tin Buckets), Louisville, Ky.

Tin Foil

Budde & Westerman, 50 Vesey, New York
 Cohn, Hugo & Co., 67 Murray, New York
 Conley Tinfoil Co. (Wrapping Machine Foil), 521 W 25th, New York
 Crooke, Jno. J. Co., 186 Grand, New York, & 149 Fulton, Chicago, Ill.
 Hutchinson, W. H. & Son, 196 Desplaines, Chicago, Ill.
 Johnston Tin Foil & Metal Co., 6016 S B'way, St. Louis, Mo.
 Lehmaier, Schwartz & Co., 207 E 23d, New York
 Wittmann Bros., Wolcott & Ferris, Brooklyn, N. Y.

Tin Plate Bars

(See also Black Plates for Trimming)
 Andrews Steel Co., Newport, Ky.
 Ashland Steel Co. (Bessemer Steel), Ashland, Ky.
 Carnegie Steel Co. (Bessemer Steel), Pittsburgh, Pa.
 Dover Forge & Iron Co. (Charcoal Iron), Canal Dover, O.
 Follansbee Bros. Co., Pittsburgh, Pa.
 Illinois Steel Co., 115 Adams, Chicago, Ill.
 Job Iron & Steel Co., Ashland, Ky.
 Republic Iron & Steel Co., Pittsburgh, Pa.
 Vulcan Charcoal Iron & Steel Co. (Charcoal Iron), Crum Lynne, Pa.

Tin Plate Dipperies

(See Tin Plate Manufacturers)

*Tin Plate Importers

LEAVITT, C. W. & CO., 220 B'way, New York. (See adv. index, end of book)

Tin Plate Mfrs.

(See also Black Plates for Trimming; also Tin Plate Bars)

Alconia Co. (Tin & Terne Plate), Pittsburgh, Pa.
 American Sheet & Tin Plate Co. (Tin & Terne Plate), Pittsburgh, Pa.
BERGER MFG. CO., The, Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)
 Cannonsburg Steel & Iron Works (Tin & Terne Plate), Cannonsburg, Pa.
 Carnahan Tin Plate & Sheet Co. (Tin & Terne Plate), Canton, O.
 Ferguson Tin Plate Co. (Terne Plates, Buy Black Sheets), Pittsburgh, Pa.
 Follansbee Bros. Co. (Tin & Terne Plate), Pittsburgh, Pa.
 Griffiths Charcoal Iron Mills (Tin Plate Only), Washington, Pa.
 Hamilton, Jno. (Terne Plate, Buy Black Sheets), Pittsburgh, Pa.
 McKeesport Tin Plate Co. (Tin Plate Only), McKeesport, Pa.
MERCHANT & EVANS CO. (Inc.) (Tin & Terne Plates, Buy Black Sheets), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Meurer Bros. Co. (Tin & Terne Plate, Buy Black Plates), Brooklyn, N. Y.

Phillips Sheet & Tin Plate Co. (Tin & Terne Plate), Clarksburg, W. Va.
 Pope Tin Plate Co. (Tin Plate Only), Pittsburgh, Pa.
 Standard Tin Plate Co. (Tin & Terne Plate), Cannonsburg, Pa.
 Taylor, N. & G. Co. (Tin & Terne Plate), Mariner & Merchants' bldg, Phila., Pa.
 United Sheet & Tin Plate Co. (Tin & Terne Plate), Marietta, O.
 Washington Tin Plate Co. (Tin & Terne Plate), Washington, Pa.
 Western Tin Plate & Sheet Co. (Tin & Terne Plate), Greencastle, Ind.
 Wheeling Corrugating Co., Wheeling, W. Va.

Tin Plate, Metals, Etc.

(See also Roofing Materials; also Roofing & Siding Iron & Steel; also Tin Plate Manufacturers)

ARKANSAS.

LITTLE ROCK—Fones Bros. Hdw. Co.

CALIFORNIA.

LOS ANGELES—Boynton, H. R. Co., 216 N Los Angeles

Harper & Reynolds Co., 152 N Main
 Holbrook, Merrill & Stetson, 200 S Central av
 Hooker, J. D. Co. (Inc.), 130 S Los Angeles

Montague, W. W. & Co., 124 N Los Angeles
 SACRAMENTO—Schaw-Batcher Co.

SAN FRANCISCO—Arnold Hardware Co., 838 Webster
 Burnstine Bros., 534 Brannan
 Dalziel-Moller Co., 543 Mission
 Dunham, Carrigan & Hayden Co., 131 Kansas

Garrett, W. T. & Co., Fremont & Natoma
 Holbrook, Merrill & Stetson, 6th & Town-
 Montague, W. W. & Co., Turk & Polk
 Pacific Hardware & Steel Co., 7th & Town-
 Pacific Metal Works, 153 1st send
 Schaw-Batcher Co., 356 Market
 Speddy, T. H. & Co., Balboa bldg
 Tay, Geo. H. Co., 617 Mission.

COLORADO.

DENVER—Rowntree, Jno. T., Continental bldg

CONNECTICUT.

BRIDGEPORT—Chapman & Bangs Co.

Hunter & Havens

HARTFORD—Blodget & Clapp Co.

Ensworth, L. L. & Son.

NEW HAVEN—Mersick, C. S. & Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Adler, M. J., 3148 M, N W
 Kendall, J. B., 485 Mo av, N W
 Lamble, Jas. B. Co., 1415 N. Y. av, N W

GEORGIA.

ATLANTA—Conklin Tin Plate & Metal Co.
 SAVANNAH—Conklin Tin Plate & Metal Co.
 Weed, J. D. & Co.

ILLINOIS.

ALTON—Degenhardt, A. J.
 CHICAGO—Allerton-Clarke Co., 118 Lake
 Hamilton, F. A. & Co., 243 E 43d
 Hibbard, Spencer, Bartlett & Co., State St.
 Johnston, Jno. & Co., 233 Lake Bridge
 McVoy Sheet & Tin Plate Co., 25 Michigan
MERCHANT & EVANS CO. (Inc.), 113 W Sheldon. (See adv. index, end of book)
 Scully Steel & Iron Co., 103 Wayman
 Shepard, C. Sidney & Co., 1532 Wabash av
 Trench, Dan'l G. & Co., 5 Wabash av
 Woodley, James C. & Co., 2256 Lumber
 Wright-Thiffault Co., 101 Kinzie

GALESBURG—Galesburg Cornice Works
 OTTAWA—Jordan, R. C.
 Refoir-Barr Co.
 PEORIA—Clark, Quilen & Morse
 Hunter & Strchlow
 Walker, Isaac Hdw. Co.
 QUINCY—Cottrell Hdw. Co.
 Tenk Hdw. Co.

INDIANA.

EVANSVILLE—Thiele, I. A.
 FORT WAYNE—Ash, H. J.
 Seavey Hdw. Co.
 INDIANAPOLIS—Indianapolis Corrugating Co.
 Indianapolis Stove Co., Roosevelt & Colum-
 bia av
 Standard Metal Co., Illinois & South

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TERRE HAUTE—Smith, C. C. Sons Co.
Toynley Hardware & Stove Co.

IOWA.

BURLINGTON—Donahue, Robt. Iron & Hard-
ware Co.
DUBUQUE—Klauer Mfg. Co.
Tredway, A. & Sons Hdw. Co.

KANSAS.

ATCHISON—Blish, Mize & Stillman Hdw. Co.
Harwi, A. J. Hardware Co.
LEAVENWORTH—Crancer, J. W. & Co.

KENTUCKY.

LOUISVILLE—Beiknap Hardware & Mfg. Co.
121 W Main
Bridgeford & Co., 501 W Main
Connor, Chas. H. & Co., 17th & Arbogust
Stratton & Terstege Co., 728 W Main
Todd-Donigan Iron Co., 817 W Main

LOUISIANA.

NEW ORLEANS—Stauffer, Eshleman & Co.

MAINE.

EASTPORT—Milliken, B. F. & Son (Canners'
Supplies)
LEWISTON—Stetson, J. H. Co.

MARYLAND.

BALTIMORE—Ammidon & Co., 31 S. Freder-
ick
Baltimore Copper Smelting & Rolling Co.
(Copper Only), Keyser bldg
Central Metal & Supply Co., 615 E. Lom-
Clendenin Bros., 1417 Thames
Fuller, Wm. & Co., 111 S Charles
Lyon, Conklin & Co., 13 Balderston
MERCHANT & EVANS CO. (Inc.),
232 St. Paul. (See adv. index, end of
book)
Nimmo, W. C. & Co., 105 Cheapside
Parker, E. L. & Co., 203 St. Charles

MASSACHUSETTS.

BOSTON—Austin & Doten, 102 North
Brown-Wales Co., 83 Purchase
Fitz, Dana & Co., 110 North
Foster, W. T. & Co., 9 Bowker
Gallagher, D. F. & Co., 37 Commercial wf.
Harvey, Arthur C. Co., 391 Congress
Herrick Co., 47 Broad
Lloyd, Geo. H., 131 State
Richards & Co., 200 Causeway
Studley & Simpson, 137 North
Waite, Ranlet & Co., 82 Broad
Wheeling Corrugating Co., 132 Pearl
SPRINGFIELD—Lewis, Chas. C., 30
Lyman
New England Plumbing Supply Co.
WORCESTER—McGuinness, J. F.

MICHIGAN.

BATTLE CREEK—Bock, C. F. & Son
Brockett, L. B. & Sons
DETROIT—Buhl, Sons Co., 115 Woodbridge
BURTON, W. J. CO., 161 W. Con-
gress. (See adv. index, end of book)
Fletcher Hardware Co., 61 W Woodbridge
Freeman, Delamater & Co., 8 Woodward av
Standart Bros., 155 W Woodbridge
Walker Mfg. & Supply Co., 136 Larned
GRAND RAPIDS—Foster, Stevens & Co.
KALAMAZOO—Edwards & Chamberlin Hdw.
Co.
SAGINAW—VALLEY CORNICE &
Slate Co., Ltd., 314-318 W Hamilton, W S.
(See adv. index, end of book)

MINNESOTA.

DULUTH—Duluth Corrugating & Roofing Co.
MINNEAPOLIS—Janney, Semple, Hill & Co.
Morison, W. K. & Co., 249 Nicollet av
ST. PAUL—Decker, Adam Hardware Co. (Est.
of), 347 Jackson
Farwell, Ozmun, Kirk & Co., Jackson, N
W Cor 2d
Hackett-Walther-Gates Hdw. Co., 270 E.
4th
St. Paul Roofing, Cornice & Ornament Co.,
WINONA—Cone, R. D. Co. St. Paul, Minn.

MISSOURI.

KANSAS CITY—Gille Mfg. Co., 1053 St.
Louis av
MERCHANT & EVANS CO. (Inc.),
2008 Baltimore av. (See adv. index,
end of book)
MILWAUKEE CORRUGATING CO.,
S Bay & Aldrich. (See adv. index, end
of book)
Richards & Conover Hdw. Co., 5th & Wy-
Twichell Iron Co. andotte
ST. JOSEPH—Wyeth Hdw. & Mfg. Co.
T. LOUIS—Norvell-Shapleigh Hdw. Co., Wash-
ington & 3d
Simmons Hdw. Co., Spruce & 9th
Witte Hdw. Co., 704 N 3d

NEBRASKA.

OMAHA—Lee-Glass-Andreesen Hdw. Co., 9th
& Harney
Lehmer, Jos. R., 1212 Farnam.
Wright & Wilhelmy Co.

NEW HAMPSHIRE.

MANCHESTER—Pike & Heald Co., 972 Elm

NEW JERSEY.

ELIZABETH—Elizabeth Hdw. Co., 202 Broad
JERSEY CITY—Letcher & Norton, 193 Morgan
N. Y. Iron Roofing & Corrugating Co., 1st
& Wash'n
NEWARK—Coe-Faltoute Co., 62 Lawrence
Coe, Jas. A. & Co., 106 Mulberry
Egbert, W. V. & Co., 37 Mechanic
Macknet & Doremus, 796 Broad

NEW MEXICO.

ALBUQUERQUE—Post, E. J. & Co.

NEW YORK.

ALBANY—Hoy & Co.
AUBURN—Smith & Pearson
BINGHAMTON—Babcock, Hinds & Under-
wood, 147, Wash'n
BUFFALO—Beals & Co., 44 Terrace
Buffalo Wholesale Hdw. Co., 331 Wash'n
Hofeller, Theo. & Co., 108 Terrace
Newman, W. H. H. & Co., 70 Main
Schmahl, Jacob, 26 Lloyd
Walbridge & Co., 392 Main
Weed & Co., 298 Main
ELMIRA—Booth, Irving D.

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—Knight, Thos. G., 52 Myrtle av
MERCHANT & EVANS CO. (Inc.),
584 Flushing av. (See adv. index, end
of book)
Meurer Bros. Co., 575 Flushing av
Ring, Chas. E., 423 Kent av

Boroughs of Manhattan & Bronx.

NEW YORK—Berliner, H. E., 68 Broad
Bruce & Cook, 190 Water
De Milt, H. R. & Co., 238 Water
Dickerson, Van Dusen & Co., 32 Cliff
EDWARDS MFG. CO., 359 W 26th.
(See adv. index, end of book)
Feld, Geo. A. Co., 162 E 129th
Fitz-Dana & Brown, 478 Pearl
Fox Bros. & Co., 126 Lafayette
Fuller Bros. & Co., 139 Greenwich
Hoffman & Scofield, 100 Beekman
HUNGERFORD, U. T. BRASS &
Copper Co., 497 Pearl
LEAVITT, C. W. & CO., 220 B'way.
(See adv. index, end of book)
MERCHANT & EVANS CO. (Inc.),
242 Water. (See adv. index, end of
book)
Ogden & Wallace, 581 Greenwich
Phelps, Dodge Co., 99 John
Roberts, F. K. Co., 196 Chambers
Sel, Benj. & Co., 59 Orchard
Trench, C. S. & Co., 81 Fulton
(End of New York City)

PORT JERVIS—Gordon & Malven Co.
ROCHESTER—Mathews & Boucher.
SCHENECTADY—Case, Levi & Co.
SYRACUSE—Burhans & Black Co.
Syracuse Hdw. & Iron Co.
TROY—Warren, J. M. & Co., 245 River
UTICA—Millar, Chas. & Son Co.
WATERTOWN—Hunting Co.
Spratt, Corcoran & Foley Co.

OHIO.

CINCINNATI—American Galvanizing Co., 820
E Pearl
Cincinnati Tin & Japan Co., 308 Walnut
EDWARDS MFG. CO., 545-565
Eggleston av, Cincinnati, O. (See adv.
index, end of book)
Graham, Frank C. Co., Com. Trib. bldg
Huenefeld, E. H. Co., Inc., Spring Grove
av & Straight
Lawson, F. H. Co., Wateley, nr Evans
McDonald, J. & Sons Co., 654 Main
Queen City Tinware Mfg. Co., 225 Walnut
Robertson, W. F. Steel & Iron Co. (Sheet
Iron & Steel, Tin & Terne Plates, etc.),
Elm, below 2d
CLEVELAND—Bassett-Presley Co., Western
Reserve bldg
Bingham, W. Co., 1433 W. 9th, N. W.
Garry Iron & Steel Co., 1270 E 53d, N E
Lockwood-Taylor Hdw. Co., 1385 W. 9th,
N. W.
Luetkemeyer, H. W. & Sons, 419 Superior
av, N. W.
McIntosh Hardware Corp'n, 725 Superior
av, N. W.
Osborn, J. M. & L. A. Co., 1047 Superior
av, N. W.
Worthington, Geo. Co., 814 St. Clair
COLUMBUS—Janeway, W. F., 161 N Lazelle
Mithoff, H. & Co., 284 S High
Moore Co., 461 Market space
Schodinger, F. O., 146 N 3d
DAYTON—Ach, Abraham & Son, 33 W 2d
Hartman-Franz Co., 116 N St Clair
FOREST—Dickelman Mfg. Co.
LISBON—Armstrong, P. M. & Co.
MANSFIELD—Blymer Bros. Co.
TOLEDO—Bostwick-Braun Co.
Stollberg Hardware Co., 605 Cherry

OREGON.

PORTLAND—Failing, Haines & McCalman, 88
Front
Hofus Steel & Equipment Co. (Brady, M.
F.), Cham. of Com.
Pacific Metal Works, 73 2d, N

PENNSYLVANIA.

ALLENTOWN—Shelley, C. Y. & Bro.
HAZLETON—Bright, J. C. & Co.
LANCASTER—Reilly Bros. & Raub
Sheet Metal & Supply Co.
Steinman Hdw. Co.
NEW CASTLE—Smith, Hutton & Kirk Co.
PHILADELPHIA—Raily, R. M. & Co., Arcade
bldg
Berger Bros. Co. (Also Tinnerns' Tools &
Supplies), 237 Arch
Berger, Leander D., 59 N. 2d
Calvert & Holloway, 68 N 2d
Carter, Donlevy & Co., 1012 Cherry
Gummey, McFarland & Co., 147 N 10th
Hall & Carpenter, 518 Race
Jolley, J. H. & Co., 42 N 5th
Lukens, Thos. F., Metal Co., 238 N. 4th
Marshall Bros. & Co., 30 Girard av
MERCHANT & EVANS CO. (Inc.),
517 Arch. (See adv. index, end of book)
Potts, W. F. Son & Co., 1224 Cherry
Purves Machy. & Iron Co., South & Water
Riter Bros. & Co., 1022 Race
Stelwagon Mfg. Co., 19th & Wash'n
Trotter, Nathan & Co., 36 N Front
Wilson, E. H. & Co., Arcade bldg
PITTSBURG—Blindley Hdw. Co., 429 7th av
Jemmler Bros., 633 Liberty av
Hamilton, John, Gloster & Elizabeth
POTTSVILLE—Bright & Co.
READING—Bard Hardware Co., 800 Penn
Stichter Hdw. Co. (Ltd.), 505 Penn
WILKES-BARRE—Bertels, W. B. Son & Co.
Penna. Supply Co.
WILLIAMSPORT—Kline & Co.
YORK—Small, P. A. & S.

RHODE ISLAND.

PROVIDENCE—Congdon & Carpenter Co.

SOUTH CAROLINA.

CHARLESTON—Shepherd Supply Co.

TENNESSEE.

CHATTANOOGA—Chattanooga Roofing & Foun-
Magill Hdw. Co. dry Co.
MEMPHIS—Livermore Foundry & Mach. Co.
Pidgeon, Thomas, Iron Co.

TEXAS.

AUSTIN—Tips, Walter Webb, Taylor & Perry
 FORT WORTH—Nash Hdw. Co.
 GALVESTON—Parr, Wm. & Co.
 HOUSTON—Heltman, F. W. Co.
 Peden Iron & Steel Co.
 LAREDO—Deutz, A. & Bro.
 WACO—Strauss, Edw.

UTAH.

SALT LAKE CITY—Strevell-Paterson Hdw. Co.

VERMONT.

BARRE—Phelps, N. D., Co.
 MONTPELIER—Blanchard, Fred.

VIRGINIA.

LYNCHBURG—Barker-Jennings Hdw. Co.
 Handy, N. B. Co.
 NORFOLK—Howard, Paul R. Hdw. Co.
 RICHMOND—Gordon Metal Co. (Jobbers)

WASHINGTON.

SEATTLE—Hofius Steel & Equipment Co.
 Waterhouse & Price Co., Alaska bldg

WEST VIRGINIA.

WHEELING—Wheeling Corrugating Co.

WISCONSIN.

GREEN BAY—Gottfredson Bros.
 MILWAUKEE—Franfurth, Wm., Hdw. Co., 119 W. Water
 Frankfurth, Wm. Hdw. Co., 119 W. Water
MILWAUKEE CORRUGATING CO.
 (See adv. index, end of book)
 Pritzlaff, Jno., Hardware Co., 33 W. Water
 SHEBOYGAN—Geele, F. Hdw. Co.

Tin Salts

Thomsen Chemical Co., Baltimore, Md.

Tinnery's Furnaces

(See Furnaces, Gasoline Blast)

Tinnery's Supplies, Etc.

(See Index of Contents for Specific Article Wanted. If Not Found, Write Us)

Tinnery's Trimmings

Central Stamping Co., 174 Fulton, New York
 Hero Fruit Jar Co., Gaul & Adams, Phila., Pa.
 Vogel, Wm. & Bros., 37 S 9th, Brooklyn, N. Y.

Tinning & Japanning

American Tube & Stamping Co., Bridgeport, Conn.
 Buffalo Galvanizing & Tinning Works (Tinning Only), 79 Jackson, Buffalo, N. Y.
 Canton Malleable Iron Co. (Japanning Only), Canton, O.
 Cincinnati Stamping Co., Cincinnati, O.
 Devlin, Thos. Mfg. Co., 3d & Lehigh av., Phila., Pa.
 Dover Stamping & Mfg. Co., Cambridge, Mass.
 Eberhard Mfg. Co. (Tinning & Galvanizing), Elbel Co., Canton, O.
 Frazer & Jones Co., Syracuse, N. Y.
 Grabler Mfg. Co., Cleveland, O.
 Igoe Bros. (Tinning Only), 69 Metropolitan av., Brooklyn, N. Y.
 Illinois Malleable Iron Co. (Tinning Only), 515 Diversy boul., Chicago, Ill.
 Lefferts Galvanizing & Tinning Works (Tinning Only), 308 E 20th, New York
 Lefferts, Jno. C. (Tinning Only), Smith, Bush & Hamilton avs, Brooklyn, N. Y.
 Lynch, Peter (Japanning), 41 Ferdon, Newark, N. J.
 Ohio Foundry Co. (Japanning Only), Cleveland, O.
 Phila. Hardware & Malleable Iron Works (Inc.), 9th & Jeff'n, Phila., Pa.
 Racine Malleable & Wrought Iron Co., Racine, Sessions, J. H. & Son, Bristol, Conn. Wis.
 Vogel, Wm. & Bros. (Japanning Only), 378 9th, Brooklyn, N. Y.
 Western Malleable & Grey Iron Mfg. Co. (Tinning Only), Milwaukee, Wis.
 White Mountain Freezer Co. (Tinning & Galvanizing), Nashua, N. H.
 Wilcox, Crittenden & Co. (Tinning of Castings of All Kinds), Middletown, Conn.

Tinware Mfrs.

(See also Enamelled Hollow Ware Manufacturers; also Aluminum Hollow Ware; also Stamping, Various Kinds)

American Can Co., 447 W 14th, New York
 Central Stamping Co. ("Paritan"), 174 Fulton, New York
 Federal Mfg. Co. (Confectioners), Baltimore, Md.
 Gender, Paeschke & Frey Co. (Anti-Rust), also Enamelled, Galvanized & Japanned Hollow Ware, Milwaukee, Wis.
 Lalancé & Grosjean Mfg. Co., 299 B'way, New York
 National Enameling & Stamping Co., B'way & White, New York
 Nitchhauser & Levy, Provost & Java, Brooklyn, N. Y.
 Wallace, Jno. W. Co., 396 S 2nd, Brooklyn, N. Y.
 Wheeling Stamping Co., Wheeling, W. Va.

Tipples (Coal)

(See Tipples, Mine)

Tipples (Mine)

ALLIS-CHALMERS CO. (Steel), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 Fairmont Mining Machinery Co. (Steel & Wod), Fairmont, W. Va.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Heyl & Patterson (Coal, Steel), Pittsburg, Pa.
 Interstate Engineering Co. (Steel, Coal), Bedford, O.
 JEFFREY MFG. CO. (Steel, etc.), Columbus, O. (See adv. index & branch offices, end of book)
 McClintic-Marshall Construction Co. (Steel), Pittsburg, Pa.
 Mineral Ridge Mfg. Co., Mineral Ridge, O.
MINNEAPOLIS STEEL & MACHINERY CO. (Steel), Minneapolis, Minn. (See adv. index & branch offices, end of book)
 Mullen, John & Son (Coal), Shamokin, Pa.
 Nelsonville Foundry & Machine Co. (Steel, Coal), Nelsonville, O.
 Niles Mine & Mill Supply Co. (Steel, Coal), Cleveland, O., & Niles, O.
 Parker, Tatcher, A. Co. (Steel, Coal), Terre Haute, Ind.
 Penn. Bridge Co. (Steel, Coal), Beaver Falls, Pa.
 Phillips Mine & Mill Supply Co., Pittsburg, Pa.
 Pittsburg Conveying Machinery Co., Pittsburg, Pa.
 Roberts & Schaefer Co. (Engineers & Contractors), Old Colony bldg., Chicago, Ill.
SCAIFE, WM. B. & SONS CO. (Steel), 221 1st av., Pittsburg, Pa. (See adv. index, end of book)
 Scottdale Foundry & Machine Co., Scottdale, Pa.
 Sullivan Machinery Co. ("Wilson & Mitchell"), Railway Exchange, Chicago, Ill.
 Virginia Bridge & Iron Co. (Steel, Coal), Roanoke, Va.
 Wellman-Seaver-Morgan Co. (Steel), Cleveland, Ohio
 Wisconsin Bridge & Iron Co. (Steel), Milwaukee, Wis.

Tips (Electric Cord)

Holland Electric Co., Boston, Mass.
 McEvoy, C. H., Lowell, Mass.
NATIONAL-ACME MFG. CO., Cleveland, O.
 Wire & Telephone Co. of America, Rome, N. Y.

Tips (Gas Burner)

Clough, Thos. (Steel), Dobbs Ferry, N. J.
 Gas Tip & Self Lighter Co. (Aluminum), 149 Church, New York
 Kirchberger, M. & Co. (Importers, Lava), 50 Warren, New York
 State Line Mfg. Co. (Lava), Chattanooga, Tenn.
 Steward, D. M. Mfg. Co. (Lava), Chattanooga, Tenn.
 Sunlight Lava Mfg. Co. (Lava), Chattanooga, Tenn.
 Thurnauer, G. M. & Bro. (Importers, Lava), 35 Park pl, New York

Tips (Mine Car)

Grant Iron W'ks ("Wren's"), Mahony City, Pa.

Tips or Caps (Railway)

Western Brass Mfg. Works, 21st & Rockwell, Chicago, Ill.

Tips (Rubber)

Continental Rubber Works, Erie, Pa.
 Goodrich, B. F. Co., Akron, O.
 Morgan & Wright (Inc.) (For Chairs, Canes, Crutch, etc.), Detroit, Mich.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Tips (Rubber Chair & Crutch)

(See Tips, Rubber)

Tips (Screw)

Elastic Tip Co. (Slotted Rubber Head), Boston, Mass.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Tips (Shaft)

Buescher Band Instrument Co., Elkhart, Ind.
 Cleveland Hdw. Co., Cleveland, O.
 Covert Mfg. Co., Troy, N. Y.
 Cowles, C. & Co., New Haven, Conn.
 Racine Malleable & Wrought Iron Co., Racine, Wis.
 Searls Mfg. Co., 27 Mulberry, Newark, N. J.
 Sparks, Withington Co., Jackson, Mich.

Tire Coolers ("Wolfe")

Wolfe, Matt L. & Son, Miamisburg, O.

Tire Fluid

Buffalo Specialty Co. (The "Neverleak" & "Glines" Liquid Rubber & "Holdfast" Liquid Shellac Cement for Automobiles & Bicycles), 375 Ellicott, Buffalo, N. Y.

Tire Repair Kits

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)
 Hartford Rubber Works Co., Hartford, Conn.
 Patterson, Gottfried & Hunter (Ltd.) ("Champion"), 146 Centre, New York

Tires (Automobile)

(See Tires, Various Kinds)

Tires (Baby Carriage)

Boston Woven Hose & Rubber Co., Cambridge, Mass.
 Continental Rubber Works, Erie, Pa.
 Federal Rubber Co., Cudahy, Wis.
 Goodrich, B. F. Co., Akron, O.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Tires (Cushioned, Cellular, Etc.)

B. O. K. Tire Co., Gosben, Ind.
 Bailey, C. J. & Co. ("Bailey Won't Slip"), 22 Boylston, Boston, Mass.
 Fawkes Rubber Co., Mack blk, Denver, Colo.
 Flrestone Tire & Rubber Co., Akron, O.
 Healy Leather Tire Co., 90 Gold, New York
 H. M. & S. Armored Tire Co., Pittsburg, Pa.
 Krotz Mfg. Co. (Cushion), Springfield, O.
 Mesinger, H. & F. Mfg. Co. (Leather), 1801 1st av., New York
 National Leather Tire Co., Owosso, Mich.
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)
 Rubber Tire Co. ("Lattina"), 1265 Arch, Philadelphia, Pa.
 R. & P. Traction Tread Tire & Tube Co., 1903 B'way, New York
 St. John Rubber Tire Co., 116 Broad, New York
 Tennant Auto Tire Co., 140 W Main, Springfield, O.
 Universal Tire Co. (Cushion), St. James bldg., New York
 Voorhees Rubber Mfg. Co., 18 Bostwick av., Jersey City, N. J.

Tires for Crushing Machinery

Standard Steel Works Co. ("Standard" Solid Weldless), Harrison bldg, Phila., Pa.

Tires (Pneumatic, Double Tube)

Continental Rubber Works ("Palmer"), Erie, Pa.

Continental Caoutchouc Co. ("Continental"), 43 Warren, New York

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Elder Mfg. Co., 2305 N Illinois, Indianapolis, Ind.

Electric Rubber Mfg. Co., 253 W 47th, New York

Firestone Tire & Rubber Co. ("Firestone"), Akron, O.

Fisk Rubber Co. ("Fisk" Mechanically Fastened), Chicopee Falls, Mass.

Goodrich, B. F. Co. ("Goodrich"), Akron, O.

Goshen Rubber Works, Goshen, Ind.

Goodyear Tire & Rubber Co. (Detachable Clincher), Akron, O.

G. & J. Tire Co. ("G. & J.," "Dunlop"), 549 E Georgia, Indianapolis, Ind.

Hall Gas Engine Co., Wollaston, Mass.

Harburg Tire Co., 232 W 58th, New York

Hartford Rubber Works Co. ("Hartford," "Won't Slip," "Dunlop's Detachable"), Hartford, Conn.

International Automobile & Vehicle Tire Co. ("Fox" Brand), Milltown, N. J.

Kokomo Rubber Co., Kokomo, Ind.

Mesinger, H. & F. Mfg. Co. (Leather), 1801 1st av, New York

Morgan & Wright, 19 N May, Chicago, Ill.

PENNSYLVANIA RUBBER CO., ("Pennsylvania" Clincher). (See adv. index & branch offices, end of book)

Samson Leather Tire Co., 12 W 33d, New York

Smith & Mahley ("Hercules"), 1765 Broadway, New York

Western Rawhide Belting Co. (Leather), Milwaukee, Wis.

Tires (Pneumatic, Single Tube)

De Laske & Throop Tire Co., Trenton, N. J.

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Fisk Rubber Co., Chicopee Falls, Mass.

Goodrich, B. F. Co. ("Goodrich"), Akron, O.

Goodyear Tire & Rubber Co., Akron, O.

Goshen Rubber Works Co., Goshen, Ind.

Hartford Rubber Works Co., Hartford, Conn.

International Automobile & Vehicle Tire Co. ("Stodder," "Endurance"), Milltown, N. J.

PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)

Tires (Rubber)

Acme Rubber Mfg. Co. ("Carriage"), Trenton, N. J.

Ajax-Grieb Rubber Co. ("Ajax" Carriage), Trenton, N. J.

Batavia Rubber Tire Co., Batavia, N. Y.

Broadway Rubber Tire Co., 253 W 47th, New York

Buckeye Rubber Co. ("Kelly-Springfield" Solid Vehicle), Akron, O.

Cincinnati Rubber Mfg. Co., Cincinnati, O.

Continental Rubber Works, Erie, Pa.

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Elder Mfg. Co., 2305 N Illinois, Indianapolis, Ind.

Electric Rubber Mfg. Co., Rutherford, N. J.

Empire Rubber Mfg. Co. (Bicycle, etc.), Trenton, N. J., & 60 Reade, New York

Federal Rubber Co. (Auto, Baby Carriage, etc.), Cudahy, Wis.

Firestone Tire & Rubber Co. ("Firestone"), Akron, O.

Fisk Rubber Co. (Mechanically Fastened), Chicopee Falls, Mass.

Gaulois Tire Co. ("Gaulois"), B'way & 56th, G. & J. Tire Co., Indianapolis, Ind.

Goodrich, B. F. Co. (Automobile, Regular Clincher & "Quick Detachable"), Akron, O.

Goodyear Tire & Rubber Co. (Carriage, Automobile Cushion & Bicycle), Akron, O.

Hamilton Rubber Co., Trenton, N. J.

Hartford Rubber Works Co. (Pneumatic & Solid Vehicle), Hartford, Conn., & 83 Michigan av., Chicago, Ill.

India Rubber Co., Akron, O.

International Rubber Co. (Pneumatic & Solid, Automobile, Bicycle & Carriage), Milltown, N. J.

Kokomo Rubber Co. (Bicycle & Vehicle), Kokomo, Ind.

Lockport Rubber Works (Automobile Inner & Outer Tube), Lockport, N. Y.

Metallic Rubber Tire Co., 210 Centre, New York

Morgan & Wright (Inc.) (Automobile, Bicycle, etc.), Detroit, Mich.

Motz Clincher Tire & Rubber Co., Akron, O.

Munger Automobile Tire Co., Trenton, N. J.

N. Y. Belting & Packing Co. (Ltd.) (Carriage & Automobile), 91 Chambers, New York

PENNSYLVANIA RUBBER CO., (Automobile, Bicycle, Vehicle, Baby Carriage, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)

Penna. Rubber Tire Co., Reading, Pa.

Republic Rubber Co., Youngstown, O.

Rubber Tire Wheel Co., Springfield, O.

St. John Rubber Tire Co., 116 Broad, New York

Stein Double Cushion Tire Co. (Double Cushioned), Akron, O.

Stokes, Jos. Rubber Co. (Bicycle, etc.), Trenton, N. J.

Strohecker, J. A. & Co., Reading, Pa.

Sweet Tire & Rubber Co., Batavia, N. Y.
Swinehart Clincher Tire & Rubber Co., Akron, Ohio
Victor Rubber Tire Co., Springfield, O.

Tires (Solid)

Ajax-Grieb Rubber Co. ("Ajax" Carriage), Trenton, N. J.

American Wood Tire Co., Monadnock hds, Chicago, Ill.

Buckeye Rubber Co. ("Kelly-Springfield"), Akron, O.

Calumet Tire Rubber Co. ("Pegasus"), N 44th & Wabansia avs, Chicago, Ill.

Detroit Automobile Top Co., 265 Jefferson av, Detroit, Mich.

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Everitt, B. F., 63 Forte, Detroit, Mich.

Federal Rubber Co., Cudahy, Wis.

Firestone Tire & Rubber Co., Akron, O.

Flint Upholstering Co., Flint, Mich.

Goodrich, B. F. Co. ("Goodrich," Solid Rubber Vehicle), Akron, O.

Goodyear Tire & Rubber Co., Akron, O.

Hartford Rubber Works Co., Hartford, Conn.

Longdin & Brugger, Found du Lac, Wis.

Middleton, Arthur H. ("Hubbard"), 2821 N Broad, Phila., Pa.

Morgan & Wright, 309 Mich av, Chicago, Ill.

Motz Clincher Tire & Rubber Co., Akron, O.

New Jersey Car Spring & Rubber Co. ("Wemoka"), Brunswick c Railroad av, Jersey City, N. J.

PENNSYLVANIA RUBBER CO., (Carriage & Metal-Base Truck), Jeannette, Pa. (See adv. index & branch offices, end of book)

Puncture Proof Tire Co., Cleveland, O.

Springfield Metal Body Co., Springfield, Mass.

Swinehart Clincher Tire & Rubber Co., Akron, Ohio

Tires (Steel)

Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Carnegie Steel Co., Pittsburg, Pa.

Illinois Steel Co., 115 Adams, Chicago, Ill.

Interstate Iron & Steel Co. ("Round & Square Edge, Grooved Steel, etc."), 1st Nat'l Bk. bldg, Chicago, Ill.

Midvale Steel Co. (Car & Locomotive Wheel), Nicetown, Phila., Pa.

Prosser, Thos. & Co. ("The Krupp"), 15 Gold, New York

Railway Steel Spring Co. ("Flatroba" Weldless, Forged & Rolled Steel Flanged), 30 Church, New York

Republic Iron & Steel Co. (Half Oval, etc.), Pittsburg, Pa.

Standard Steel Works (Car & Locomotive), Harrison bldg, Phila., Pa.

Sweet's Steel Co., Williamsport, Pa.

Titanium

Goldschmidt Thermit Co., 90 West, New York

Pennsylvania Rubber Company

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 Andrews Wire & Iron Works ("Androck" Bread), Rockford, Ill.
 Crane, W. M. Co. ("The Vulcan"), 16 W 32d, New York
 Harkins & Willits (Bread), Ann Arbor, Mich.
 Johns, H. W.-Manville Co. (Asbestos), 100 William, New York
 Middletown Mfg. Co. ("Carrie's" Brand), Middletown, O.
 Roseland Can & Specialty Co. ("Roseland"), Rockford, Ill.
 Sloan Mfg. Co. (Bread, etc.), Kansas City, Mo.
 Standard Stamping Co. ("Standard"), Marysville, O.
 Syracuse Stamping Co., Syracuse, N. Y.
 Willson Toaster Mfg. Co. (Bread), Ferguson bldg, Pittsburg, Pa.

Tobacco Pouches (Rubber)

Goodrich, B. F. Co., Akron, O.

Toboggan Slides

Ingersoll Construction Co., Pittsburg, Pa.
 Morris, E. Joy, 902 Walnut, Phila., Pa.
 Phila. Toboggan Co., 130 E Duval, Gtn., Phila., Pa.

Toe-Calks (Steel)

Always Sharp Horseshoe Calk Mfg. Co., Jersey City, N. J.
 American Calk Co. ("Sure-Grip"), Detroit, Mich.
 American Horse Shoe Co., Phillipsburg, N. J.
AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Burke, P. F. (And "Dooley" Toe Calk), Dorr & Dorchester av, S. B., Boston, Mass.
 Franklin Steel Works ("Standard," "Climax," "Sweets"), Cambridge, Mass., & Joliet, Ill.
 Gautier Dept. Camhria Steel Co., Arcade bldg., Phila., Pa.
 H. & Rowe Calk Co. ("H." & "Rowe"), Hartford, Conn.
 Never Slip Mfg. Co. ("Never Slip" Red Tip Screws In), New Brunswick, N. J.
 North & Pfeiffer Mfg. Co. (Screw), New Britain, Conn.
 Phoenix Horse Shoe Co. ("Phoenix Bull Dog"), Chicago, Ill.
 Reynolds, James Mfg. Co. ("Acme," "Wont-Slip" Removable), New Haven, Conn.
 Rhode Island Perkins Horse Shoe Co. ("Perkins"), Providence, R. I.
 Slipnot Calk Mfg. Co. ("Slipnot"), Hoboken, N. J.
 Syracuse Calk Co., Syracuse, N. Y.
 West'n Automatic Mach. Screw Co., Ellyria, O.
 Western Steel & Iron Co. ("Durkee"), Council Bluffs, Ia.
 Williams Drop Forging Co. ("Williams Can't-Slip" Screw or Removable), Scranton, Pa.

*Tokens (Metal)

AMERICAN RAILWAY SUPPLY CO., 26 Park Row, New York. (See adv. index, end of book)

Tolanite

Philadelphia Clay Co. (Pulverized or Lump), 1201 Chestnut, Phila., Pa.

Tongs (Blacksmiths')

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)
 Atha Tool Co. ("Horseshoe"), Newark, N. J.
 Champion Tool Co. ("Champion" Clinch & Common), Meadville, Pa.
 Evansville Tool Works, Evansville, Ind.
 Heller Bros. Co., Newark, N. J.
 Moore Drop Forging Co., Springfield, Mass.
 Stearns, E. C. & Co. ("Stearns," Swivel Jaw), Syracuse, N. Y.
 Vaughan & Bushnell Mfg. Co., 875 Carroll av., Chicago, Ill.

Tongs (Bull)

Harrow Spring Co., Kalamazoo, Mich.

Tongs (Carbon)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.

Tongs (Chain)

Dunne, Geo. W. & Co. ("Robbins"), 689 Carroll av, Chicago, Ill.
 Granger Iron Forge Works, 689 Canal, Chicago, Ill.
 Kroeschell Bros. Co. ("Ideal"), 55 Erie, Chicago, Ill.
 Robbins, Gamwell & Co. ("Robbins"), Pittsfield, Mass.
 Schutte, E. G. & Co., 230 Stark, Cincinnati, O.
 Stortz, John & Son (Holsting), 210 Vine, Phila., Pa.

Tongs (Charging)

Brass Founders Supply Co. (For Brass Fdrs.), Newark, N. J.

Tongs (Cross Tie)

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Cheswick, Pa.

Tongs (Crucible)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Barnett, Oscar Foundry Co., Newark, N. J.
 Byram & Co., 435 Gulon, Detroit, Mich.
 Dicke Tool Co., Downers Grove, Ill.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

NORTHERN ENGINEERING WORKS, 9 Chene, Detroit Mich. (See adv. index & branch offices, end of book)

OSBORN MFG. CO., 5401 Hamilton av, N. E., Cleveland, O. (See adv. index, end of book)

Paxson, J. W. Co., Phila., Pa. (See adv. index, end of book)

SMITH, J. D. FOUNDRY SUPPLY CO., 1846 Scranton rd., N. W., Cleveland, O. (See adv. index, end of book)

WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

Tongs (Hog)

Pratt, Wm. E. Mfg. Co. ("The Hill"), 91 Lake, Chicago, Ill.

Tongs (Ice)

Gifford-Wood Co., Hudson, N. Y.
 Hiles, O. A. & Co., 14th & Western av, Chicago, Ill.

Louden Machinery Co. (Self Opening), Fairfield, Iowa

Metropolitan Specialty Mfg. Co. ("Handy"), Northampton, Mass.

Morton, D. B., Groton, N. Y.

Parks & Parks ("Little Giant" for Domestic Use), Troy, N. Y.

Stevens, Benj. A. Co., Toledo, O.

Schutte, E. G. & Co. ("Schutte"), 230 Stark, Cincinnati, O.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Vaughn & Bushnell Mfg. Co. ("V. & B."), 875 W Carroll av, Chicago, Ill.

Tongs (Joist or Timber)

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Champion Tool & Handle Co., Evert, Mich.

Oshkosh Tool Mfg. Co. (For Holsting Timbers, etc., Into High Buildings), Oshkosh, Wis.

Tongs (Machinists')

Barnes Tool Co., New Haven, Conn.

Tongs (Piano Hammer Shank)

Kraeuter & Co., Newark, N. J.

Tongs (Pick-up Fire)

Krieger Tool & Mfg. Co., 479 N. Park, Chicago, Ill.

Tongs (Pipe)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Ashcroft Mfg. Co. ("Brown's" Adjustable, etc.), 85 Liberty, New York

Barnes Tool Co., New Haven, Conn.

Case, W. A. & Son, 31 Main, Buffalo, N. Y.

Crane Co. (Est. 1855) ("Robbins," "Brown"), 519 S Canal, Chicago, Ill.

Darling Pump & Mfg. Co. ("Darling"), Williamsport, Pa.

Diamond Power Specialty Co. ("Diamond"), Detroit, Mich.

Granger Drop Forge Works, 689 Canal, Chicago, Ill.

Hollands Mfg. Co., Erie, Pa.

Illinois Malleable Iron Co., 515 Diversey boul., Chicago, Ill.

Jarecki Mfg. Co., Erie & Pittsburg, Pa.

Knapp, Jas. M., 12 Bowker, Boston, Mass.

Kroeschell Bros. Co., Chicago, Ill.

Mueller, H. Mfg. Co., Decatur, Ill.

OIL WELL SUPPLY CO. ("Klein"), 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Power Specialty Co. ("Diamond"), Detroit, Mich.

Rochester Drop Forge Co. ("Robbins" Pattern Chain, Common & "Brown's" Adjustable), Rochester, N. Y.

Ross Gear & Tool Co. ("Headson"), Lafayette, Ind.

Saunders, D. Sons, Yonkers, N. Y.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Union Drop Forge Co. (Parts Only), 69 Indiana, Chicago, Ill.

Walworth Mfg. Co., Boston, Mass.

Tongs (Rail)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Atha Tool Co., Newark, N. J.

Beall Bros. (Inc.), Alton, Ill.

Byram & Co., 435 Guoin, Detroit, Mich.

Dohle, Ahner Co., San Francisco, Cal.

Evansville Tool Works, Evansville, Ind.

Harvey, H. H., 608 Atlantic av, Boston, Mass.

Hubbard & Co., Pittsburg, Pa.

Iron City Tool Works (Ltd.), Pittsburg, Pa.

Lovejoy Tool Works, 83 E. Ohio, Chicago, Ill.

Pittsburg Tool & Drop Forge Co. ("Cheswick"), Arrott bldg, Pittsburg, Pa. Works, Cheswick, Pa.

Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.

Union Drop Forge Co., 69 Indiana, Chicago, Ill.

Vaughn & Bushnell Mfg. Co. ("B. & O." Drop Forged), Chicago, Ill.

Verona Tool Works, Verona, Pa., & Pittsburg, Pa.

Warwood Tool Co., Wheeling, W. Va.

Tongs (Roofing)

Keene, Geo. C. & Co., Cincinnati, O.

MILWAUKEE CORRUGATING CO. (Jobbers), Milwaukee, Wis. (See adv. index & branch offices, end of book)

NIAGARA MACHINE & TOOL WKS., Buffalo, N. Y. (See adv. index, end of book)

Peck, Stow & Wilcox Co., Southington, Conn.

Pratt, Wm. E. Mfg. Co. ("Perfect"), 91 Lake, Chicago, Ill.

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tongs (Saw Brazing)

Baldwin, Tuthill & Bolton, Grand Rapids, Mich.

Tongs (Skidding)

(See Tools, Logging & Lumbermen's)

Tongs (Stone Handling)

DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Lincoln Iron Works (For Handling Finished Work), Rutland, Vt.

Tongs (Tanners')

Horn, Wm. H. & Bro. ("Diamond," "Crown"), 451 N 3d, Phila., Pa.

Tool Bags (Linemen's)

Dicke Tool Co., Downers Grove, Ill.

Galewski, Adolph, 323 B'way, New York

Humphrey's, R. A. Sons, 1022 Ridge av, Phila., Pa.

Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.

Peddle, T. B. & Co., Newark, N. J.

Tool Bags (Plumbers' & Masons, Etc.)

BERNZ, OTTO, S 13th, cor S Orange av, Newark, N. J. (See adv. index, end of book)

Excelsior Implement Co. ("Excelsior"), 382 River, Troy, N. Y.
 Galewski, Adolph, 323 B'way, New York
 Johnson, Wm. (Hedenberg Works), Newark, N. J.
 Marshalltown Trowel Co., Marshalltown, Ia.
 Osborne, C. S. & Co., Harrison, N. J.

*Tool Boxes (Farriers')

WELLS BROS. Co. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Tool Chests

American Radiator Co. (Steel), 282 Michigan ave, Chicago, Ill.
 American Tool Chest Co. (& Tool Cabinets), 200 W Houston, New York
 Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
 Jennings, C. F. & Co., 42 Murray, New York
 Paine Furniture Co., 48 Canal, Boston, Mass.
 Vanderman Plumbing & Heating Co. (Steel), Willimantic, Conn.

Tool Posts

Brown & Sharpe Mfg. Co. (Cutting-Off, etc.), Providence, R. I.
 O. K. Tool Holder Co., Shelton, Conn.

Tool Sets

Fray, Jno. L. Co. (Hollow Handles), Bridgeport, Conn.
 Keystone Drop Forge Works (Drop Forged), Chester, Pa.
 Reed Mfg. Co. (Pipe), Erie, Pa.
 United Awl & Needle Co. (Small for Hollow Handles), Boston, Mass.

*Tool Sets (Automobile)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Tool Stands (Portable)

Western Tool & Mfg. Co. ("Champion" Movable Bench), Springfield, Ohio

Tool Steel

(See Steel, Crucible; also Steel Bar Mills)

Tools (Adjustable Milling)

(See Mills, Adjustable Hollow)

Tools (Artesian Well Drilling)

(See Machinery, Well Drilling)

Tools (Asphalt Paving)

Contractors' Tool Co., 704 Arch, Phila., Pa.
 Iroquois Iron Works, Buffalo, N. Y.
 Pioneer Iron Works, 149 Pioneer, Brooklyn, N. Y.
 Universal Road Machinery Co., 120 Liberty, New York

Tools (Automobile)

ANDERSON FORGE & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

Blanchard, A. W. ("Blanchard" Tire Detacher), 10 Clinton, Brooklyn, N. Y.
 Beckley-Ralston Co., 80 Michigan av, Chicago, Ill.

Brown, J. C. Mfg. & Garage Co. (Chain Tools), Butler, Ind.

Clark, A. N. & Son, Plainville, Conn.

Crane & Richardson, 114 Water, Boston, Mass.

Duane, W. J. & Co. (Tire Irons), 1771 B'way, New York

Elliott, W. J. & Co. (Tire Removers), 185 Franklin, Boston, Mass.

Essex Mfg. & Supply Co. (Bearing Scrapers), Newark, N. J.

Gay, E. L. (Gear, Cam & Flywheel Remover), Southbridge, Mass.

HAMMACHER, SCHLEMMER & CO. ("Tourist Autokit"), 133 4th av, New York (See adv. index, end of book)

Handy Tool Co. (Metal Punch & Bolt Clipper Combined), Bellevue, O.

Hatcher Auto Parts Co. (Crimping Tools), 138 Viaduct, Cleveland, O.

Motor Car Supply Co. ("Husky" Chain Tools), 1427 Michigan av, Chicago, Ill.

Noonan, A. S. Tool & Machine Co., Rome, N. Y.

PATTERSON, GOTTFRIED & HUNTER (Ltd.), 211 Center, New York

Rhodes Mfg. Co. (Tire Removers), Grand Rapids, Mich.

Richards Tool Co., 15 Court, Boston, Mass.

Shauver Co. (Tire Removers, "Springfield"), Springfield, Ohio

Uncedme Tool Co., ("Uncedme"), 61 E Spring, Cincinnati, O.

WELLS BROS. CO., Greenfield, Mass. (See adv. index, end of book)

Tools (Beading)

Faessler, J. Mfg. Co. (Rapid), Moberly, Mo.
 Lovejoy Tool Works, 86 E. Ohio, Chicago, Ill.
 Marshalltown Trowel Co., Marshalltown, Ia.
 Wiedeke, Gustave Co. (Boilermakers), Dayton, O.

Tools (Bell Centering)

Braunsdorf-Mueller Co., Elizabeth, N. J.

Tools (Blacksmiths')

(See Index of Contents for Specific Article Wanted. If Not Found, Write Us)

Tools (Boilermakers')

INGERSOLL-RAND CO., 11 B'way, New York. (See adv. index & branch offices, end of book)

Thomson, Alex., Fitchburg, Mass.

Wickes Bros., Saginaw, Mich.

Wiedeke, Gustav & Co. (Tube Expanders, Rivet Hole Reamers, Beading Tools, Tube Cutters, Center Markers, Rivet Punches, Dies, etc.), Dayton, Ohio

Tools (Boring)

Armstrong Bros. Tool Co., 104 N. Francisco av., Chicago, Ill.

Connecticut Valley Mfg. Co. ("Jennings" Wood), Chesterbrook, Conn.

Forest City Bit & Tool Co. (Wood Boring & Hollow Mortising), Rockford, Ill.

Fray, Jno. S. Co., Bridgeport, Conn.

Goodell Mfg. Co., Greenfield, Mass.

Hill Standard Mfg. Co. ("Hill"), Anderson, Lea, Thomas, New Brunswick, N. J.

Mayhew, H. H. Co., Shelburne Falls, Mass.

Millers Falls Co. (Automatic), 28 Warren, New York

National Mfg. Co., Worcester, Mass.

O. K. Tool Holder Co., Shelton, Conn.

Peck, Stow & Wilcox Co., Southington, Conn.

Precision Boring Tool Co. ("Precision"), Wetherbee bldg, Detroit, Mich.

Western Tool & Mfg. Co. ("Champion"), Springfield, O.

WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

*Tools (Burring)

WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Tools (Butchers')

(See Index of Contents for Specific Article Required. If Not Found, Write Us)

Tools (Cabinetmakers')

(See Specific Article Required)

Tools (Calking)

ANDERSON FORGE & MACHINE CO., 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Atha Tool Co., Newark, N. J.

Bradley's, G. W. Sons (Inc.), Westport, Conn.

Brewer Bros. (Plumbers), 614 Filbert, Phila., Pa.

CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Carver Tool Works, Spring Valley, N. Y.

Drew, C. & Co., Kingston, Mass.

Falis Mfg. Co., San Francisco, Cal.

Harvey, H. H., 608 Atlantic av, Boston, Mass.

Lovejoy Tool Works (Straight or Bent), 86 E Ohio, Chicago, Ill.

Mack & Co., Rochester, N. Y.

Mueller, H. Mfg. Co. (Combination Soil Pipe), Decatur, Ill.

Osborne, C. S. & Co., Harrison, N. J.

Pollard, J. G., 141 Raymond, Brooklyn, N. Y.

Stortz, John & Son, 210 Vine, Phila., Pa.

White, L. & I. J. Co., Buffalo, N. Y.

Wiedeke, Gustav & Co. (Boilermakers'), Dayton, Ohio

Wilcox, Crittenden & Co., Middletown, Conn.

Tools (Carpenters')

(See Index of Contents for Specific Article Required. If Not Found, Write Us)

Tools (Carving)

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.

Braunsdorf-Mueller Co., Elizabeth, N. J.

Buck Bros., Millbury, Mass.

Buck, Chas., Millbury, Mass.

HAMMACHER, SCHLEMMER & CO., 133 4th av, New York. (See adv. index, end of book)

Mack & Co. ("Addis" Style), Rochester, N. Y.

Millers Falls Co., 28 Warren, New York. Works, Millers Falls, Mass.

Tools (Cement Block Laying)

Maddux Concrete Tool Co., Muncie, Ind.

Tools (Cement Sidewalk)

(See Tools, Concrete Finishing)

Tools (Comb)

Grimes & Harris, Leominster, Mass.

Tools (Commutator Turning)

Bryant-Bery Steam Turbine Co., Detroit, Mich.

Fort Wayne Electric Works ("B. & B."), Fort Wayne, Ind.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)

Imperial Electric Co. ("Carr"), Akron, O.

Jordan Bros., 74 Beekman, New York

Phillips Mfg. Co., 60 Wall, New York

Tschull & McBarron Machine Co. ("Excelsior"), Dayton, O.

Tools (Concrete Finishing)

Anderson, W. H. Tool & Supply Co. (Edgers, Groovers, Markers, Rollers, Framers, etc.), 14 Maccomb, Detroit, Mich.

Connelly, P. F., Sioux Falls, S. D.

Contractors' Tool Co., 704 Arch, Phila., Pa.

Crafts, F. H. (Rollers, Jointers, Edgers, Name Stamps, etc.), Rochester, N. Y.

Duffy Mfg. Co., 125 Indiana, Chicago, Ill.

Jona Novelty Co. ("Jona"), Burlington, Iowa

Kramer Bros. Foundry Co. ("Gem"), Dayton, Ohio

Noble, Henry A., 203 Dock, Philadelphia, Pa.

Sheldon, E. H. & Co., 84 N May, Chicago, Ill.

Stortz, John & Son, 210 Vine, Phila., Pa.

Waterloo Cement & Machinery Co., Waterloo, Ia.

Tools (Coopers')

American Axe & Tool Co., Glassport, Pa.

Atha Tool Co., Newark, N. J.

Atkins, E. C. & Co., Indianapolis, Ind.

Black, John B. ("Wm. Beatty & Sons"), Chester, Pa.

Bradley's, G. W. Sons (Inc.), Westport, Conn.

Chapin, Stephens Co., Pine Meadow, Conn.

Cincinnati Tool Co., Cincinnati, O.

Collins Co., Collinsville, Conn.

Crescent Novelty Mfg. Co. ("Crescent" Punch), 703 S B'way, St. Louis, Mo.

Drew, C. & Co., Kingston, Mass.

Emerson, Smith & Co. (Ltd.), Beaver Falls, Pa.

Evansville Tool Works, Evansville, Ind.

Gregg, M. & Son, Rochester, N. Y.

Iron City Tool Co., Pittsburg, Pa.

Lowell, S. K. & Co., Chelsea, Mass.

Mack & Co. (Axes, Adzes, Anvils, Drawing Knives, Beck Horns, etc.), Rochester, N. Y.

Nagengast, Jos. & Co., Bayonne, N. J.

Ohio Tool Co., Columbus, O.

Piqua Handle & Mfg. Co., Piqua, O.

Sandusky Tool Co. (Wood Tools, etc.), Sandusky, N. Y.

Stortz, John & Son, 210 Vln, Phila., Pa.
 Swan, Jas. Co., Seymour, Conn. dusky, O.
 Vaughn & Bushnell Mfg. Co., 877 Carroll av,
 Chicago, Ill

White, L. & I. J. Co., Buffalo, N. Y.

Tools (Cutting-Off)

Armstrong Bros. Tool Co., 104 W San Fran-
 cisco av, Chicago, Ill.
 Billings & Spencer Co., Hartford, Conn.
 Dwight Slate Machine Co., Hartford, Conn.
 Fitchburg Machine Wrks, Fitchburg, Mass.
 Goodell Mfg. Co., Greenfield, Mass.
 Hill Standard Mfg. Co. ("Hill" High Speed).
 Anderson, Ind
 O. K. Tool Holder Co., Shelton, Conn.
 Pratt & Whitney Co. ("Johnson" Cutting-Off
 Blades), Hartford, Conn.
 Walworth Mfg. Co., 128 Federal, Boston.
 Mass.
 Western Tool & Mfg. Co. ("Champlon"),
 Springfield, Ohio

Tools (Dentists')

American Oil & Supply Co., Newark, N. J.

Tools (Diamond)

Baszanger, Jacques & Co., 108 Fulton, New
 York
DESSAU'S, S. SONS, 180 B'way, New
 York. (See adv. index, end of book)
 Dickinson, Thos L., 64 Nassau, New York
 Grant-Lees Mach. Co. (Black Diamond & Bortz),
 1360 E 85th, N. E., Cleveland, O.
MEYERS, WILLARD F., 342 Vernon
 ave., Long Island City, N. Y. (See adv.
 index, end of book)

Tools (Diamond Point Turning)

Dickinson, Thos. L., 64 Nassau, New York
 Hill Standard Mfg. Co., Anderson, Ind.
MEYERS, WILLARD F., 342 Vernon
 ave., Long Island City, N. Y. (See adv.
 index, end of book)

*Tools (Diamond Set)

DESSAU'S, S. SONS (For Truing &
 Turning, Grinding Wheels & All Other Me-
 chanical Purposes), 180 B'way, New York.
 (See adv. index, end of book)

Tools (Drill Sharpening)

Atha Tool Co. (Steam Drill Tools), Newark.
 Plumb, Fayette R., Fkd., Phila., Pa. N. J.

Tools (Drilling & Fishing, Oil Well)

Ackerman & Castle, Lima, O.
AMERICAN WELL WORKS, Aurora, Ill.
 (See adv. index & branch offices, end of book)
 Best, Jno., Warren, Pa.
 Bovalrd & Seyfang Mfg. Co., Bradford, Pa.
 Crown Drilling Mach. Co., Akron, O.
 Flulayson, Jno., Sistersville, W. Va.
 Gibsonburg Machine Co., Gibsonburg, O.

Kesselman & Co., Butler, Pa., & Parkersburg,
 W. Va.

Keystone Driller Co. (Oil Well), Beaver Falls,
 Pa.

Kittanning Drilling Tool Co., Kittanning, Pa.

Larkin & Co., Butler, Pa.

Leidecker Tool Co., Marietta, O.

Muncie Gas Engine & Supply Co., Muncie, Ind

OIL WELL SUPPLY CO., 215 Water,

Pittsburg, Pa. (See adv. index, end of

Robertson, D. W., Bradford, Pa. book)

Sheridan, Jas. J. & Co., Mars, Pa.

Sinclair & Morrison Co., Lima, O.

Star Drilling Machine Co., Akron, O.

Struthers, Wells & Co., Warren, Pa.

Union Oil Tool Co., Los Angeles, Cal.

U. S. Engine Co., Parkersburg, W. Va.

West Virginia Tool Co., Sistersville, W. Va.

Tools (Electricians')

(See Tools, Linemen's)

Tools (Emergency)

Universal Tool Co. ("Milla's"), Springfield,
 Mass.

*Tools (Emery Wheel Turning)

BAY STAMPING CO., ("Bennett",
 Turning & Shaping), 380 Chandler, Wor-
 cester, Mass. (See adv. index, end of
 Book)

Tools (Expansion Boring)

Davis Expansion Boring Tool Co. (For Boring
 Mills, Lathes or Drill Presses), 3910 N
 B'way, St. Louis, Mo.

Tools (Farriers')

Atha Tool Co., Newark, N. J.
 Champlon Tool Co., Meadville, Pa.
 Columbia Tool Co., Jamestown, Pa.
 Doble, Abner Co., San Francisco, Cal.
 Evansville Tool Works, Evansville, Ind.
 Hammond, C. & Son, Ogontz, Pa.
 Heller Bros. Co., Newark, N. J.
 Vaughn & Bushnell Mfg. Co., 877 W Carroll
 av, Chicago, Ill.

WELLS BROS. CO. ("Little Giant"),
 Greenfield, Mass. (See adv. index, end of
 book)

*Tools (Fillet Applying)

HILL & GRIFFITH CO., Cincinnati,
 O. (See adv. index, end of book)

Tools (Firing)

Grabler Mfg. Co., Cleveland, O.
 Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.

Tools (Granite & Stone Cutters')

(See also Pneumatic Stone Cutting Tools)

Ahern, Jas., Barre, Vt.
 Anderson, W. H. Tool & Supply Co., 14 Ma-
 comb, Detroit, Mich.
 Braunsdorf-Mueller Co., Ellizabeth, N. J.

Brown, James H., 139 3d av, Brooklyn, N. Y.

Brunner & Lay, 133 W Polk, Chicago, Ill.

DALLETT, THOS. H. CO. (Pneumatic,

etc.), 2300 York, Phila., Pa. (See

adv. index, end of book)

Davey, J. H., New London, Conn.

Drummond, D. T., Quincy, Mass.

Hauck, Wm. J., 306 Southwest boul, Kansas

City, Mo.

Harvey, H. H., 608 Atlantic av, Boston, Mass.

HEARTLEY MACHINE, VARIETY IRON

& Tool Works, Toledo, O. (See adv. index,

end of book)

Heathcote, Thos., 829 Penna. av, Allegheny, Pa.

Isele, A. W. & Son, 51 Pitts, Boston, Mass.

Kelley, Benj. & Co., Belfast, Me.

Kemp, J. F., Quincy, Mass.

Livngston Mfg. Co., Rockland, Me.

Mead, I. V. & Co., 418 E 110th, New York

Mitton, Job G. & Son 27 S 23d, Phila., Pa.

Schueddlg, F. Son, 525 S Jefferson, St. Louis,

Mo.

Spargo, Edw., 68 Commerce, New Haven, Conn.

Stibbs Steel Co., 47 N 5th, Phila., Pa.

Sullivan & Donahue, Westerly, R. I.

Therlen Tool Works, 116 1st av, N. Minneapolis,

Trow & Holden Barre, Vt. Minn.

Vogl Tool Co., 1910 Walnut, Kansas City, Mo.

Vulcan Tool Mfg. Co., Quincy, Mass.

Wells, Chas. & Sons, 235 Mill, Rochester, N. Y.

Willbas, Gustaf, Quincy, Mass.

Wood, W. T. & Co., Arlington, Mass.

Tools (Gun Cleaning & Re-loading)

Farles Mfg. Co. ("C. M. Powers," Cleaners),
 Decatur, Ill.

King Mfg. Co. (Gun Cleaning Rods), 52 Co-
 lumbia, Newark, N. J.

Lefever Arms Co. ("Ideal" Gun Barrel Clean-
 er), Syracuse, N. Y.

Marlin Fire Arms Co. (Reloading), New Haven,
 Conn.

Parker Bros. (Cleaning & Reloading), Meriden,
 Conn.

Remington Arms Co. (Reloading), 313 B'way,
 New York

Savage Arms Co. (Reloading), Utica, N. Y.

Stevens, J. Arms & Tool Co. (Reloading Cart-
 ridges), Chicopee Falls, Mass.

Union Hardware Co. (Cleaning & Reloading),
 Torrington, Conn.

Union Metallic Cartridge Co., Bridgeport, Conn.

U. S. Cartridge Co. ("Belcher's" Automatic
 Magazine Cartridge Loader), 497 Pearl,
 New York; Factory, Lowell, Mass.

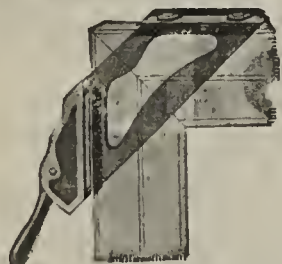
Waterbury Brass Co. (Reloading), Waterbury,
 Conn.

Winchester Repeating Arms Co. (Reloading),
 New Haven, Conn.

Worcester Brush & Scraper Co. ("Criss-
 Cross," Gun Cleaner & Gun Rod), Wor-
 cester, Mass.

Tools (Harness & Saddlery)

Horn, Wm. H. & Bros. ("Diamond," "Crown")
 451 N 3d, Phila., Pa.



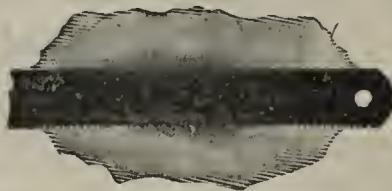
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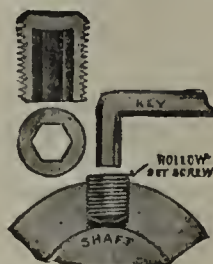
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HAMMACHER, SCHLEMMER & CO., NEW YORK, SINCE 1848 (4TH AVE & 13TH ST.)

Tools (Haying)

Akron Machine Co., Akron, O.
American Fork & Hoe Co., Cleveland, O.
Appleton Hay Tool Co., Appleton, Wis.
Butterfield & Co., Derby Line, Vt.
Eureka Mower Co., Utica, N. Y.
Herschel, B. Mfg. Co., Peoria, Ill.
Hunt, Helm, Ferris Co., Harvard, Ill.
Iowa Farming Tool Co., Fort Madison, Ia.
Jenkins Hay Rake Stacker Co., Chillicothe, Mo.
Law Mfg. Co., Merriam Park, Minn.
Louden Machinery Co., Fairfield, Ia.
Milwaukee Hay Tool Co., Milwaukee, Wis.
Myers, F. E. & Bro., Ashland, O.
Ney Mfg. Co., Canton, O.
Ney, V. L. Co., Canton, O.
Oshkosh Logging Tool Co., Oshkosh, Wis.
Porter, J. E. Co., Ottawa, Ill.
Rock River Machine Co., Janesville, Wis.
Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Strickler Hay Tool Co., Janesville, Wis.
Swanson, T. Mfg. Co., Shenandoah, Ia.
Syracuse Chilled Plow Co., Syracuse, N. Y.
WHITMAN & BARNES MFG. CO.,
("Diamond"), Chicago, Ill. (See adv. index & branch offices, end of book)

Tools (Hollow Mortising)

Forest City Bit & Tool Co., Rockford, Ill.

Tools (Ice)

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
Arcade Mfg. Co., Freeport, Ill.
Bodenstein, J. G. & Co., Staatsburgh, N. Y.
Dernell, H. F. & Co., Athens, N. Y.
Enterprise Mfg. Co. (Ice Shredders, etc.), 3d cor Dauphin, Phila., Pa.
Falls Mfg. Co., San Francisco, Cal.
Gardiner Tool Co., Gardiner, Me.
Gerlach, Peter & Co., Cleveland, O.
Gifford-Wood Co., Hudson, N. Y.
Gruman, Geo. B., Branchville, Conn.
HEARTLEY MACHINE, VARIETY
Iron & Tool Works, Toledo, O. (See adv. index, end of book)
Hiles, C. A. & Co. (Chisels, Bars, etc.), 14th & Western av., Chicago, Ill.
Landers, Frary & Clark, New Britain, Conn.
Norton Mfg. Co. (Awls, Chisels, Picks, etc.), Chester, Conn.
Ohio Brass Co., Mansfield, Ohio
Stevens, Benj. A. Co., Toledo, Ohio.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
White, L. & I. J. Co., Buffalo, N. Y.

Tools (Ice Cream Makers')

Stortz, John & Son, 210 Vine, Phila., Pa.

*Tools (Ivory Turning)

DESSAU'S, S. SONS, (Diamond), 180
B'way, New York. (See adv. index, end of book)

Tools (Jewelers')

(See Tools, Watchmakers' & Jewclers')

Tools (Key Seating)

Hill Standard Mfg. Co. ("Hill"), Anderson, Ind.

Tools (Knurling)

Goodeil-Platt Co. (Hand), Greenfield, Mass.

Tools (Lathe & Planer)

Almond, T. R. Mfg. Co. (Turret Head or Monitor Lathe Attachment), Ashburnham, Mass.
ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. index, end of book)
Armstrong Bros. Tool Co., 104 N Francisco av.,
Atha Tool Co., Newark, N. J. Chicago, Ill.
Billings & Spencer Co., Hartford, Conn.
Braunsdorf-Muciler Co., Elizabeth, N. J.
Dwight Slate Machine Co., Hartford, Conn.
Fitchburg Machine Works, Fitchburg, Mass.
Hill Standard Mfg. Co. ("Hill" & "Eberhardt"), Anderson, Ind.
Meriden Machine Tool Co., Meriden, Conn.
Niles-Bement-Pond Co., 111 B'way, New York
O. K. Tool Holder Co., Shelton, Conn.
Reed, F. E. Co., 120 Gold, Worcester, Mass.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Superior Tap Co. (Thread Cutting), Springfield, Vt.

Western Tool & Mfg. Co. ("Champion" Side Tool) Springfield, Ohio
Whitcomb-Blaisdell Machine Tool Co., Worcester, Mass.
YOUNG MACHINE & TOOL CO., 211
Center, New York, & Worcester, Mass.
(See adv. index, end of book)

Tools (Linemen's)

Dicke Tool Co., Downers Grove, Ill.
Hubbard & Co., Pittsburg, Pa.
Klelu, Mathias & Son, 87 W Van Buren, Chicago, Ill.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tools (Logging & Lumberman's)

Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
Avery & Co., Portland, Ore.
CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end of book)
Champion Tool & Handle Co., Ewart, Mich.
Clyde Iron Works (Inc.), Duluth, Minn.
Ewart Tool Co., Ewart, Mich.
Gerlach, Peter & Co., Columbus road & Winter, Cleveland, O.
Grays Harbor Iron Works, Hoquiam, Wash.
Hoquiam Machine W'ks ("Ideal"), Hoquiam, Wash.
Loggers Supply Co., Seattle, Wash.
Morley Bros. (Inc.) ("Blue Line"), Saginaw, Mich.

Northwestern Mfg. Co., Duluth, Minn.
Oshkosh Tool Mfg. Co., Oshkosh, Wis.
Prouty, C. & Co., Eldred, Pa.
Remick, A. R., Kelso, Wash.
Sanford, A. Logging Tool Co., Oshkosh, Wis.
Simonds Mfg. Co., Fitchburg, Mass.
Simonds Mfg. Co., 201 Magazine, New Orleans.
Warren Axe & Tool Co., Warren, Pa. La.

Tools (Machinists' Hand)

(See Specific Article Required; also Machinists' Tools & Supplies)

*Tools (Manual Training)

HAMMACHER, SCHLEMMER & CO.,
134 4th av., New York. (See adv. index, end of book)

Tools (Marble Workers')

(See Tools, Granite & Stone Cutters')

Tools (Masons')

Brunner & Lay, 133 W Polk, Chicago, Ill.

Tools (Metal Workers')

(See Specific Article Required)

Tools (Milling Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
Owen Machine Tool Co. (Tool Sets), Springfield, O.
Pratt & Whitney Co., Hartford, Conn.
WELLS BROS. CO. ("Little Giant," Hol-low Milling), Greenfield, Mass. (See adv. index, end of book)

Tools (Mining)

Beall Bros. (Inc.), ("Old Alton"), Alton, Ill.
Beaver Falls Mfg. Co., Beaver Falls, Pa.
Cyclone Machine Co., Pittston, Pa.
Fulton Tool W'ks ("Fulton"), Canal, Fulton, O.
Hardsocg, Martin Co., Allegheny, Pa.
Iwan Bros., South Bend, Ind.
Pittsburg Shovel Co., Frick bldg, Pittsburg, Pa.
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick"),
Cheswick, Pa.
Williams & Davisson Co. (Safety Combination), Clarksburg, W. Va.

Tools (Mitreing)

Carver Tool Works, Spring Valley, N. Y.
Waverly Mfg. Co. ("Nolan"), Waverly, Minn.

Tools (Molders')

Barnett, Oscar Foundry Co. ("Monk's"), Newark, N. J.
Burr's Damascus Tool Works, 66 Fort, E, Detroit, Mich.

Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Dobson, Wm., Canastota, N. Y.
HILL & GRIFFITH CO., Cincinnati,
O. (See adv. index, end of book)
Obermayer, S. Co., 647 Evans, Cincinnati, O.
OSBORN MFG. CO., 5401 Hamilton
av, N E, Cleveland, O. (See adv. index, end of book)
Peninsular Tool & Specialty Co., Detroit, Mich.
SMITH, J. D. FOUNDRY SUPPLY CO.,
1846 Scranton rd., N. W., Cleveland, O.
(See adv. index, end of book)

Tools (Oysterman's)

(See also Knives, Oyster & Clam)

Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tools (Packing)

Mound Tool & Scraper Co. (& Scraping), 710
Howard, St. Louis, Mo.
STRONG MACHINERY & SUPPLY CO.,
48 Franklin, New York
Vaughn & Bushnell Mfg. Co. ("V. & B.")
Hook, or Screw Pattern), 867 Carroll av,
Chicago, Ill.

Tools (Paper Hangers')

Aronson, Joel, 29 Ten Eyck, Brooklyn, N. Y.
Ridgely Trimmer Co., Springfield, O.
Standard Trimmer Co., Springfield, O.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.
Watson, Geo. E. Co., 108 Lake, Chicago, Ill.
Webster & Perks Tool Co. ("Simplex"),
Springfield, O.

Tools (Parting)

Swau, James Co. (For Wood Turners), Seymour, Conn.

Tools (Paving)

(See also Tools, Concrete Finishing; also Tools, Asphalt Paving)
AMERICAN CONCRETE CO. (Concrete), 80 William, New York. (See adv. index, end of book)
Ames Plow Co., Quincy Hall, Boston, Mass.
Anderson, W. H. Tool & Supply Co., 14 Maccomb, Detroit, Mich.
Crescent Novelty Mfg. Co. ("Crescent & Maurer's" Granitoid Sidewalk), 703 S. B'way, St. Louis, Mo.
Hauck, Wm. J. (Concrete, etc.), 306 Southwest
boul, Kansas City, Mo.
Kramer Bros. Foundry Co., Dayton, O.
Lyman, W. C., 49 Michigan, Chicago, Ill.
Orr & Lockett Hdw. Co., 71 Randolph, Chicago, Ill.
Pollard, Jos. G., 141 Raymond, Brooklyn, N. Y.
Trow & Holden, Barre, Vt.

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Advertisers alone,
but a Complete
Register of the
manufacturers and
jobbers in every line of
trade that comes within
the scope of the work.

***Tools (Pearl Turning)**

DESSAU'S, S. SONS ("Diamond"),
180 B'way, New York. (See adv. Index,
end of book)

Tools (Pitching)

Anderson, W. H. Tool Supply Co., 14 Ma-
comb, Detroit, Mich.
Atha Tool Co., Newark, N. J.
Crescent Novelty Mfg. Co., 703 S B'way, St.
Louis, Mo.
Evansville Tool Works, Evansville, Ind.
Mack & Co., Rochester, N. Y.
Plumb, Fayette (Inc.), Fkd., Phila., Pa.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tools (Planer)

(See Tools, Lathe & Planer)

Tools (Plasterers')

Brausdorf-Mueller Co., Elizabeth, N. J.
Story, Herbert (Aluminum Plasterers' Hooks,
etc.), 257 William, New York

Tools (Plumbers' & Tinnners')

Barnes Tool Co. (For Plumbers & Steam Fit-
ters Only), New Haven, Conn.
Berger Bros Co. (Tinnners, Roofers, etc.), 237
Arch, Phila. Pa.
BERNZ, OTTO, S 13th & S Orange av.
Newark, N. J. (See adv. Index, end of
book)
Carver Tool Works, Spring Valley, N. Y.
Fleck Bros. Co. ("K. Korkers"), 50 N 5th,
Phila., Pa.
Johnson, Wm. (Hedenberg Works), Newark,
N. J.
MERCHANT & EVANS CO. (Inc.)
(Tinnners' Tools & Machines), 517 Arch,
Phila., Pa. (See adv. Index & branch of-
fices, end of book)
Mueller, H. Mfg. Co., Decatur, Ill.

NIAGARA MACHINE & TOOL WKS.
(Tinnners Only), Buffalo, N. Y. (See adv. In-
dex, end of book)
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

Tools (Pneumatic)

(See Pneumatic Tools)

Tools (Pump)

Brown, Harold J., 120 Liberty, New York.
Mack & Co., Rochester, N. Y.

Tools (Rail Bonding)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank bldg, Chicago, Ill.
(See adv. index & branch offices, end of
book)
Lord Electric Co. ("Lord" Tools, Soldering
Torches, etc.), 213 W 40th, New York

Tools (Railroad Track)

ANDERSON FORGE & MACHINE CO.,
271 Guoin, Detroit, Mich. (See adv. on
preceding page)
American Brake Shoe & Foundry Co., Mahwah,
N. J.
Andersou, W. H. Tool Supply Co., 14 Macomb,
Detroit, Mich.
Atha Tool Co., Newark, N. J.
Beall Bros. (Inc.), Altou, Ill.
Buda Foundry & Mfg. Co., Harvey, Ill., &
R'y Exch bldg, Chicago, Ill.
CAREY, GEO. H., 1 B'way, New York.
(See adv. Index, end of book)
Columbus Forge & Iron Co., Columbus, O.
FAIRBANKS, MORSE & CO., Wabash
av & Eldredge pl, Chicago, Ill. (See adv.
Index & branch offices, end of book)
Handlan-Buck Mfg. Co., 212 N 3d, St. Louis,
Mo.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Isle, A. W. & Son, Boston, Mass.
Jones & McLaughlin Steel Co. (Ltd.), Pitts-
burg, Pa.
Klein, Logan Co., Pittsburg, Pa.
Lovejoy Tool Works, 86 E. Ohio, Chicago, Ill.
MacPherson Switch & Frog Co., Niagara Falls,
N. Y.

Motley, Green & Co. (Inc.), 68 Broad, New
York
Ohio Brass Co., Mansfield, O.
Pittsburg Steel Mfg. Co., Pittsburg, Pa.
Plumb, Fayette (Inc.), Fkd., Phila., Pa.
Sheffield Car Co., Three Rivers, Mich.
Solid Steel Tool & Forge Co. ("S. T. S."),
Bracklnridge, Pa.
Union Drop Forge Co., 69 Indiana, Chicago,
Ill.
Verona Tool Works, Verona, Pa., & Pittsburg,
Pa.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
ERNST WIENER
COMPANY.

475 Fulton bldg, New York. (See adv. In-
dex & branch offices, end of book)
Williams, J. H. & Co., 150 Hamilton av, Brook-
lyn, N. Y.

Tools (Rock Drill Sharpening)

Evansville Tool Works, Evansville, Ind.
INGERSOLL-RAND CO., 11 B'way, New
York. (See adv. Index & branch offices,
end of book)

Tools (Roll Turned)

Trethewey, Sam'l & Co. (Ltd.), 47th & Plum-
mer, Pittsburg, Pa.

***Tools (Rubber Turning)**

DESSAU'S, S. SONS ("Diamond"),
180 B'way, New York. (See adv. Index,
end of book)

Tools (Saddlery)

Osborne, C. S. & Co. ("C. S. O. & Co."),
Harrison, N. J.

Tools (Sailmakers')

Stortz, John & Son (Peggors or Bodkins, etc.),
210 Vine, Phila., Pa.

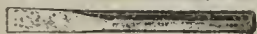
MALLET HEAD FLOOR CHISELS



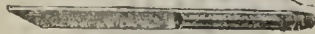
VARNING IRONS, FLAT PATTERN



COMMON OR AGRICULTURAL COLD CHISELS



PLUGGING OR JOINTING CHISELS



WALL CHISELS



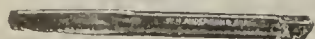
HAMMER HEAD FLOOR CHISELS



STRAIGHT R. & L. CAULKING TOOLS



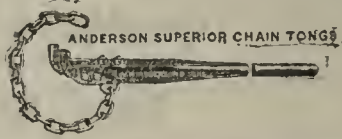
HALF ROUND REAMERS



CAULKING HAMMERS



ANDERSON SUPERIOR CHAIN TONGS



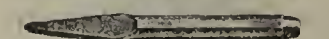
STRAIGHT CEILING DROP CAULKING TOOLS



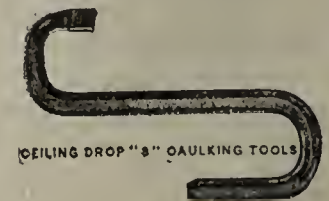
HIGH GRADE COLD CHISELS



HIGH GRADE CAPE CHISELS

HIGH GRADE
HALF ROUND CAPE CHISELS

HIGH GRADE DIAMOND POINTS



CEILING DROP "S" CAULKING TOOLS

ANDERSON HIGH GRADE COLD CHISELS AND PLUMBERS' CAULKING TOOLS.

Our high grade cold chisels are used by many of the large railroads and manufacturing concerns. They have found them more durable and economical than tools made in their own shops. They are made from special steel by men who know how.

Our Plumbers' Tools are equally good. A catalogue of more than THREE HUNDRED tools will be sent on request.

ANDERSON FORGE & MACHINE CO.,

271 Guoin Street,

DETROIT, MICH.

***Tools (Scraping)**

STRONG MACHINERY & SUPPLY
Co. (Hollow & Flat Ground for Scraping
Valves, Journals, Bearings, etc.), 48
Franklin, New York. (See adv. index,
end of book)

Tools (Screw Machine)

Brown & Sharpe Mfg. Co., Providence, R. I.
Pratt & Whitney Co., Hartford, Conn.

Tools (Ship Carpenters')

(See Adze Manufacturers; also Mallets; also
Tools, Calking)

Tools (Shoemakers')

Harrington Cutlery Co., Southbridge, Mass.
Harrington, T. J., Southbridge, Mass.
Horn, Wm. H. & Bro. ("Diamond," "Crown"),
451 N 3d, Phila., Pa.
Hyde Mfg. Co., Southbridge, Mass.
Krieg, C. W. & Co., 110 Reade, New York.
Krieg, J. K. & Co., 39 Warren, New York.
Snell & Atherton, Brockton, Mass.
Richard, Stephen Co., Southbridge, Mass.

Tools (Slaters')

Belden Machine Co., New Haven, Conn.
FLORY, S. MFG. CO., Bangor, Pa.
& 149 B'way, New York. ((See adv. in-
dex, end of book))
Fulmer, J. H., Nazareth, Pa.
Isele, A. W. & Son (Hammers, Cutters,
Stakes, Scratching Bars, etc.), 51 Pitts,
Boston, Mass.
NIAGARA MACHINE & TOOL WKS.,
Buffalo, N. Y. (See adv. index, end of book)
Stortz, Jno. & Son (Hammers, Rippers, Stakes,
etc.), 210 Vine, Phila., Pa.

Tools (Tanners' & Curriers')

Baker, G. W. & Co., Wilmington, Del.
Horn, Wm. H. & Bro. ("Diamond," "Crown"),
451 N 3d, Phila., Pa.

Tools (Thread Chasing)

Kelly, P. J. ("Climax"), Elizabeth, N. J.

Tools (Thread Cutting)

Armstrong Bros. Tool Co., 104 N San Fran-
cisco av, Chicago, Ill.
ARMSTRONG MFG. CO. (Pipe & Bolt),
Bridgeport, Conn. (See adv. index &
branch offices, end of book)
Avery, Wm. & Co., Foxboro, Mass.
Billings & Spencer Co. (& Diamond Point),
Hartford, Conn.
Boston Tool Co. ("Double Quick"), Cam-
bridge, Mass.
Cenat & Donelson Co. ("Little David,"
Screw Cutting), Greenfield, Mass.
General Pump Appliance Co., 42 W 43d, New
York
Hart Mfg. Co. ("Duplex"), Cleveland, O.
Hill Standard Mfg. Co. ("Hill"), Anderson,
Kelly, P. J. ("Climax"), Elizabeth, N. J.
Kirkpatrick Saddle Co., Springfield, O. Ind.
Modern Tool Co. (Spring), Erie, Pa.
O. K. Tool Holder Co., Shelton, Conn.
Pratt & Whitney Co., Hartford, Conn.
Rivett-Dock Co., Boston, Mass.
Rivett Lathe Mfg. Co., Brighton, Boston,
Mass.
Tucker, W. W. & C. F., Hartford, Conn.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
WELLS BROS. CO., Greenfield, Mass.
(See adv. index, end of book)
Western Tool & Mfg. Co. (Spring & Solid
Holder), Springfield, O.

Tools (Toy)

Arcade Mfg. Co. (Iron & Wood), Freeport, Ill.
Wrightsville Hardware Co., Wrightsville, Pa.

Tools (Track)

(See Tools, Railroad Track)

Tools (Turpentine)

Bradley's, G. W. Sons, (Inc.), Westport, Conn.
Evansville Tool Works, Evansville, Ind.
Warren Axe & Tool Co., Warren, Pa.

Tools (Walk Cleaning)

(See also Cleaners, Pavement; also Scrapers,
Sidewalk)

Continental Tool Co., Frankfort, N. Y.
Iowa Farming Tool Co., Fort Madison, Iowa

**Tools (Watchmakers' & Jewel-
ers')**

American Oil & Supply Co., Newark, N. J.
American Watch Tool Co., Waltham, Mass.
Bullock Mfg. Co., 172 Dwight, Springfield,
Coats, Fred. R., Springfield, Ill. Mass.
Dixon, Wm. (Inc.), 39 John, New York
Hardinge Bros., 1036 Lincoln av, Chicago, Ill.
Job, Frederick, Wilkes-Barre, Pa.
Kendrick & Davis, Lebanon, N. H.
Koch, Alfred S., Lancaster, Pa.
Langelier Mfg. Co., 67 Clifford, Providence,
Leiman Bros., 62 John, New York R. I.
McWilliams Mfg. Co., Providence, R. I.
Mann, Chas. A., Providence, R. I.
Morgan, Edwd, 15 Franklin, Newark, N. J.
Moseley Lathe Co., Elgin, Ill.
Oliver, W. W. Mfg. Co., 1483 Niagara, Buf-
falo, N. Y.

Randall, Frank E., Waltham, Mass.
Rivett-Lathe Mfg. Co., Brighton, Boston,
Mass.

Standard Machinery Co., Providence, R. I.
Stelman & Swan Mfg. Co., Lancaster, Pa.
STARK TOOL CO., Waltham, Mass.
(See adv. index, end of book)

STARRETT, L. S. CO., Athol, Mass.
(See adv. index & branch offices, end of
book)

Thurston Mfg. Co., Providence, R. I.
Waltham Watch Tool Co., Springfield, Mass.

Tools (Wire Splicing)

Smith, Otis A. (For Splicing Wire Fence,
Telephone Wire, etc.), Rockfall, Conn.

Tools (Wood Turning)

Carroll-Jameson Mach. Tool Co., Batavia, O.
Oliver, W. W. Mfg. Co., Buffalo, N. Y.
Swan, Jas. Co. (Parting), Seymour, Conn.

Tools (Woodworkers')

(See Specific Article Required)

Tooth Pick Mfrs.

Berst Mfg. Co., Saginaw, Mich.
Forster, Chas. (Est. of), Dixfield, Me.
Forster Mfg. Co., Dixfield, Me.
Peirce, W. E. & Co., Milford, N. H.
Perfection Mfg. Co., Detroit, Mich.

Tops (Automobile & Vehicle)

American Top Co., Jackson, Mich.
Anderson, F. W. & Co., 1419 Montrose, Phila.,
Pa.

Automobile Equipment Co., Detroit, Mich.
Baltimore Buggy Top Co., 700 Penna av, Bal-
timore, Md.
Barndt-Johnston Auto Supply Co., Columbus, O.
Bauer Bros. Mfg. Co., 939 W 8th, Cincin-
nati, O.

Buob & Schen, 410 E. Court, Cincinnati, O.
Cartier, Chapman & Co., Lexington, Mich.
Central Mfg. Co., Connersville, Ind.
Columbus Buggy Co., Columbus, O.
Detroit Carriage Co., Detroit, Mich.
Detroit Motor Supply Co., Detroit, Mich.
Duane, W. J. & Co., 1771 B'way, New York
Dunham, D. B. & Son, Rahway, N. J.

Dusenberglouis, 86 Worth, New York
Empire Gear & Top Co., 413 N 22d, Phila., Pa.
Everitt, B. F., Clay & Dequindre, Detroit, Mich.
Halliday, C. A., Oneida, N. Y. cago, Ill.
Hill Mfg. Co., 23 Fuller, Buffalo, N. Y.

Indianapolis Dash Co., 2116 S Meridian, In-
dianapolis, Ind.
Keystone Wagon Works Co., Reading, Pa.
Kimball, C. P. & Co., 315 Michigan av, Chi-
cago, Ill.

Kroh, C. Z. Mfg. Co., Toledo, Ohio
Larrimore Top Co., 428 Light, Baltimore, Md
London Auto. Supply Co., 1229 Michigan av,
Chicago, Ill.

McClellan, Chas. P., Fall River, Mass.
Manhattan Auto Top Co., 249 W. 64th, New
York
Meyer, C. G., Main & Ann, Tiffin, O.

Michigan Top Co., 17 Duffield, Detroit, Mich.
Morton, Rob't E., 26 South, New York
Myers Automobile Top Co., Dayton, O.

Quier, C. D. Top Co., Kansas City, Mo.

Racine-Sattley Co., Racine, Wis.
Rands Mfg. Co., Detroit, Mich.
Ratterman & Luth, 1911 W 8th, Cincinnati, O.
Schubert Bros. Gear Co., Oneida, N. Y.
Shelter Top Co., 1240 N Main, St. Louis, Mo.
Sprague Umbrella Co. ("Sprague"), Norwalk,
Ohio

Springfield Auto Top & Upholstering Co.,
Springfield, Mass.

Springfield Metal Body Co., Springfield, Mass.
Teel, E. & Co., Medford, Mass.
Troy Carriage Sun Shade Co., Troy, O.
Vehicle Apron & Hood Co., Columbus, O.
Vehicle Top & Supply Co., 700 Case av, St.
Louis, Mo.

Weiss, Charles, 4800 Cottage Grove av, Chi-
cago, Ill.
Wells, L. J., Des Moines, Iowa

Tops (Milk & Beer Bottle)

Hazel Atlas Glass Co. (Stamped or Forged),
Whceling, W. Va.

Tops (Molasses Jug)

Ohio Lantern Co., Tiffin, O.

Tops (Pole)

(For Arc Lamps & Electric Railway Poles)

Ajax Line Material Co. (Arc Lamp), Jefferson,
Chicago, Ill.

Anderson Albert & J. M. Mfg. Co. (Electric
Railway), Boston, Mass.

ANDERSON FORGE & MACHINE CO.
(Street Railway), Detroit, Mich. (See adv.
index & branch offices, end of book)

Cutter, Geo. Co. (Arc Lamp), South Bend, Ind.
Electric Ry Equipment Co. (Arc Lamp & Elec.
Railway), Cincinnati, O.

Morris, Elmer P. Co. (Street Railway), 90 West,
New York

Ohio Brass Co. (Street Railway), Mansfield, O.
Western Electric Co. (Arc Lamp), 259 S Clin-
ton, Chicago, Ill., & 57 Bethune, New York

Tops (Tin, Screw)

Ohio Lantern Co., Tiffin, O.

Torches (Alcohol)

(See also Furnaces, Gasoline Blast)
BERNZ, OTTO, S 13th & S Orange av,
Newark, N. J. (See adv. index, end of
book)

Clayton & Lambert Mfg. Co., Detroit, Mich.
Climax Mfg. Co., Waltham, Mass.
Knapp Mfg. Co. (Self Acting), 20 Warren,
New York

Osborne, C. S. & Co. ("C. S. O. & Co."),
Harrison, N. J.

Roberts, H. C. Electric Supply Co., 905 Arch,
Phila., Pa.

Sweeten-Crossan Electric Co. ("Victor"), 816
Arch, Phila., Pa.
Turner Brass Works ("Wilson," "Gem"),
Sycamore, Ill.

Torches (Brazing)

(See Blow Pipes & Brazing Apparatus)

***Torches (Car Inspectors')**

WILSON, F. CORTEZ & CO., 239 Lake,
Chicago, Ill. (See adv. index, end of book)

Torches (Cast Iron)

Forest City Foundry & Mfg. Co., Cleveland, O.

Torches (Electric)

Bogart, A. L., 123 Liberty, New York
Electric Contract Co. (Portable, for Plumbers),
175 Grand, New York

***Torches (Factory, Acetylene)**

MACLEOD, WALTER & CO. (Oil or
Gasoline), 213 E Pearl, Cincinnati, O. (See
adv. index, end of book)

WILSON, F. CORTEZ & CO., 239
Lake, Chicago, Ill. (See adv. index, end of
book)

Torches (Factory & Mine)

Clayton & Lambert Mfg. Co. (Gasoline), De-
troit, Mich.

Gem Mfg. Co. ("Gem"), Pittsburg, Pa.
Turner Brass Works, Sycamore, Ill.

Wall, P. Mfg. Supply Co. (Brazed Steel),
Allegheny, Pa.

***Torches (Foundry)**

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

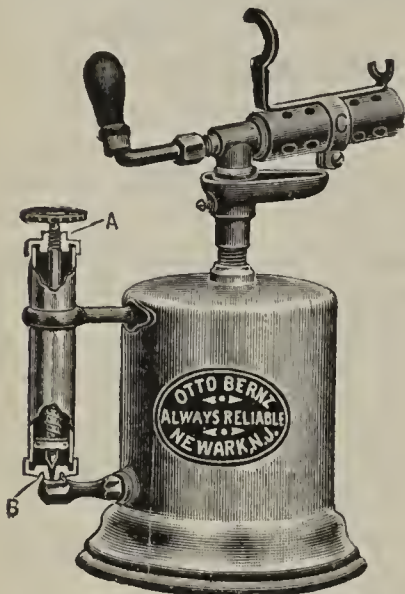
Torches (Gasoline, Etc.)

(See Torches, Gasoline Blow)

Torches (Gasoline Blow)

(See also Furnaces, Gasoline Blast)

Acorn Brass Mfg. Co., 203 Fulton, Chicago, Ill.
American Stove Co. ("Reliable"), St. Louis, Mo.
Barthel Blow Lamp Co., Boston, Mass.
Best Lamp Co., Canton, O.
BERNZ, OTTO ("Always Reliable"), S 13th & S Orange av, Newark, N. J. (See adv. index, end of book)

**TORCHES**

Our Torches are fitted up with our Patent adjustable soldering iron holders, which can easily be removed when not required. Also have our improved "never-leak" pumps, the plungers of which screw down and are always out of the way.

Notice our "A. B. C." Improvements

Each one packed in a wooden box, and guaranteed to be in perfect condition when it leaves the factory.

OTTO BERNZ, NEWARK, N. J.

Boeke, Wm. & Co., 518 Vine, Phila., Pa.
Bridgeport Brass Co. ("Vulcan," "Queen"), Bridgeport, Conn.

Clayton & Lambert Mfg. Co., Detroit, Mich.
Climax Mfg. Co., Boston, Mass.
Climax Specialty Co., Seneca Falls, N. Y.
Diener, G. W. Mfg. Co. ("Torrid"), 77 W Lake, Chicago, Ill.

Emmelmann Bros. Mfg. Co. (Gasoline Soldering Iron & Blow Torch), Indianapolis, Ind.
Gefroerer, C. & Son, 248 N 8th, Phila., Pa.
Globe Brass Works, Detroit, Mich.
Hine-Watt Mfg. Co. ("Marion"), 69 Wabash av, Chicago, Ill.

Hull, J. S. Mfg. Co., Baltimore, Md.
Johnson, Wm. ("Henderson Works") (Plumbers'), Newark, N. J.

Knapp Mfg. Co., 20 Warren, New York
Mack, Thos. A. Mfg. Co. ("Khotal"), 401 St. Paul's av, Jersey City, N. J.

MACLEOD, WALTER & CO. ("Buck-eye"), 213 E Pearl, Cincinnati, O. (See adv. index, end of book)

Mossberg, Frank Co., Attleboro, Mass.
Phillips & Harmon ("Warrior"), Northville, Mich.

Quadruga Mfg. Co. ("Walters"), 18 S Canal, Chicago, Ill.

Sievert Torch Co. ("Sievert"), Boston, Mass.
Sun Vapor Street Light Co., Canton, O.

Turner Brass Works ("Hot Blast," "Bull Dog," "Franklin," "Kinzie," "Jewell," "Mogel," "Old Reliable"), Sycamore, Ill.

Volcano Torch & Mfg. Co., Erie, Pa.
Wellington Mfg. Co., 470 Cherry, New York
Zeidler Lamp & Brass Co. ("Baby"), Lomira, Wis.

Torches (Hand)

Dayton Malleable Iron Co. (Made Entirely of Malleable Iron), Dayton, O.

Deverell Perfection Mfg. Co., 36 Bridge, Brooklyn, N. Y.

Dressel Railway Lamp Works (Engineers' Track, Wipers', Boilermakers', Car Inspectors, etc.), 3860 Park av, New York

Gem Mfg. Co. ("Gem," "Meg" Inspectors & Locomotive, etc.), Pittsburg, Pa.

Gray, Peter & Sons, 88 Union, Boston, Mass.

Knapp Mfg. Co. (Locomotive, etc.), 20 Warren, New York

McClintock & Irvine Co. ("M. & I." Sheet & Brazed Steel), Pittsburg, Pa.

Noera Mfg. Co. (Inspectors' & Locomotive), Waterbury, Conn.

Wail, P. Mfg. Supply Co. (Brazed Steel, Pyramid Chain, Top Burner & Factory), Pittsburg, Pa.

WILSON, E. CORTEZ & CO., 239 Lake, Chicago, Ill. (See adv. index, end of book)

***Torches (Heavy Metal Heating)**

MACLEOD, WALTER & CO. ("Buck-eye"), 213 E Pearl, Cincinnati, O.

Torches (Kerosene Blow)

Barthel Blow Lamp Co., Boston, Mass.
Hauck Mfg. Co., 140 Cedar, New York
McClintock & Irvine, Pittsburg, Pa.
Sievert Torch Co. ("Sievert"), Boston, Mass.
Turner Brass Works ("Hot Blast"), Sycamore, Ill.

Torches (Locomotive)

(See Torches, Hand)

Torches (Shop & Engine)

(See Torches, Hand)

Torches (Wall)

Turner Brass Works, Sycamore, Ill.

Torpedoes

Backes, Michael Sons, Wallingford, Conn.
Clarendon Torpedo Co., Titusville, Pa.
Co-operative Torpedo Co., Montpelier, Ind.
Granite Railway Signal Co., Bouquet & Granite av, Allegheny, Pa.
Hall, Ellis & Son, Knox, Pa.
Harper, Mrs. Ann, Oil City, Pa.
Hunt, Edmund S. & Sons, Weymouth, Mass.
Kansas Torpedo Co., Chanute, Kan.
Kuhn, J. R. Torpedo Co., Parkersburg, W. Va.
Marietta Torpedo Co., Marietta, O.
Milliken & French, Sistersville, W. Va.
Producers Torpedo Co., Marietta, O.
Western R'y Signal Co. (R. R.), Fostoria, O.

Torpedoes (Toy)

Backes, Michael Sons, Wallingford, Conn.
Hunt, Edmund S. & Sons, Weymouth, Mass.

Torpedoes & Fuses (Railway Signal)

Backes, Michael Sons, Wallingford, Conn.
Columbia Fire Cracker Co., Fostoria, O.
Jackson's, Sam'l Sons, 1129 S 15th, Phila., Pa.
United States Railway Signal Co., Fostoria, O.
Western Railway Signal Co. (Red Fire), Fostoria, O.

Tow

Ashland Flax Mill Co., Ashland, O.
Brehdon, V. R., Buffalo, N. Y.
Coleman, M. R., New London, O.
Keogh Excelsior Mfg. Co., Chicago, Ill.
Keogh, John W. & Co., 13 Michigan av, Chicago, Ill.
Minnesota Fibre Co., Heron Lake, Minn.
Wallace, J. I., Jackson, Minn.

Towel Bars & Shelves (Plate Glass)

Anderson, Geo. H. & Co., 281 W. Superior, Chicago, Ill.

Towels (Absorbent Machinery Wiping)

Devon Mills (Geo. S. Browne, Prop.), Providence, R. I.

Towers (Bell & Observation)

(See Tanks & Towers, Water)

Towers (Cement Cooling)

United Iron Works Co., Springfield, Mo.

Towers (Chemical)

Bethlehem Foundry & Machine Co. (Grover & Gay Lussac & Broome Exhaust), Front st, South Bethlehem, Pa.

Towers (Hoisting, for Coal & Ore)

(See also Coal & Ore Handling Machinery)

Conveying Machinery Co., 120 Liberty, New York

HAYWARD CO., THE (Incline, Steeple & Traveling), 50 Church, New York. (See adv. index, end of book)

Mitholland, J. & J. B. Co., 718 5th av, Pittsburg, Pa.

Robins Conveying Belt Co., Passaic, N. J.

Towers (Steel)

(See Tanks & Towers, Water)

Towers (Water Cooling)

Alberger Condenser Co., 95 Liberty, New York
Baragwanath, Wm. & Son, 48 Division, Chicago, Ill.

Burhorn Edwin ("Burhorn," "Acme"), 71 Wall, New York

CANTON BOILER & ENGINEERING Co., Canton, O. (See adv. index, end of book)

CONNER & CO., 9th & Master, Phila., Pa. (See adv. index, end of book)

GRAVER, WM. TANK WORKS, East Chicago, Ind. (See adv. index, end of book)

Hart, B. F., Jr. & Co., 143 Liberty, New York
International Steam Engineering Co. ("Jennison"), Atlanta, Ga.

Ruemmel-Dawley Mfg. Co. ("Graders"), 3900 Choteau av, St. Louis, Mo.

Stocker, Geo. J. (Fanless), 2836 Victor, St. Louis, Mo.

Struthers, Wells Co., Warren, Pa.

Wheeler, C. H. Mfg. Co. ("Wheeler-Pratt"), Lehigh & N. 18th, Phila., Pa.

Wheeler Condenser & Engineering Co. ("Barnard"), Carteret, N. J.

WORTHINGTON, HENRY R., 115 B'way, New York. (See adv. index & branch offices, end of book)

Toy Banks

Arcade Mfg. Co., Freeport, Ill.
Bank-Clock Mfg. Co., 174 Fulton, New York
Central Stamping Co., 174 Fulton, New York
Columbia Grey Iron Co., Columbia, Pa.
Globe Machine & Stamping Co., Cleveland, O.
Grab, Victor M. & Co. ("Grab's") Keyless Basket & "Good Luck", Ashland blk, Chicago, Ill.

Hubley Mfg. Co., Lancaster, Pa.

Nicol & Co., 66 N Jefferson, Chicago, Ill.
Reading Hardware Co., Reading, Pa.

Williams, A. C. Co., Ravenna, O.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Toys (Electric)

(See also Motors, Battery)

Carlisle & Finch Co., Cincinnati, O.
Diamond Electric Co., Warren, O.

Green Electrical Mfg. Co., Chicago, Ill.
Heinrich Electrical Novelty Co., 192 Fulton, Brooklyn, N. Y.

Howard Miniature Lamp Co., Newark, N. J.
Ithaca Electric Novelty Co., Ithaca, N. Y.

Kendrick & Davis, Lebanon, N. H.
Knapp Electric & Novelty Co. ("Electric Questioner"), 511 W 51st, New York

Lionel Mfg. Co., 4 White, New York
Ohio Electric Works, Cleveland, O.

Rhode Island Telephone & Electric Co. ("Baby Dynamo"), Providence, R. I.

Russell Electric Co. ("Memiphone"), Danbury, Conn.

Universal Novelty Co. (Magic Lanterns), 163 W 29th, New York

Voltamp Electric Mfg. Co., Baltimore, Md.

Toys (Iron & Steel)

Arcade Mfg. Co., Freeport, Ill.
Blacklock Foundry Co., South Pittsburg, Tenn.
Central Stamping Co. (Tin, etc.), 174 Fultou, New York
Hews, A. H. & Co., North Cambridge, Mass.
Hubley Mfg. Co., Lancaster, Pa.
Ingersoll, Robt. H. & Bro., 45 John, New York
Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
Ives Mfg. Corp'n, Bridgeport, Conn.
Kraus, Emil H., 140 B'way, Cleveland, O.
National Novelty Corp'n, 826 B'way, New York
New England Specialty Co., North Easton, Mass.
Rollman Mfg. Co., Mt. Joy, Pa.
Stevens, J. & E. Co., Cromwell, Conn.
Weeden Mfg. Co., New Bedford, Mass.
Williams, A. C. Co., Ravenna, Ohio.
Wrightsville Hdw. Co., Wrightsville, Pa.
WORCESTER PRESSED STEEL CO.,
Worcester, Mass. (See adv. index, end of book)

Toys (Rubber)

Faultless Rubber Co. (Balloons, Balls, etc.), Ashland, O.
Goodrich, B. F. Co., Akron, O.
N. Y. Rubber Co., 84 Reade, New York

Toys & Novelties

American Doll & Toy Mfg. Co., 49 W 13th, New York
American Metal Wheel & Toy Co., Toledo, O.
Austin & Craw, South Norwalk, Conn.
Bevin Bros. Mfg. Co., Easthampton, Conn.
Borgfeldt, Geo. & Co., 3d & Wooster, New York
Bradley, Milton Co., Springfield, Mass.
Butler, Otis P. (Wood), West Ridge, N. H.
California Notion & Toy Co., San Francisco, Cal.
Carriage & Toy Co., Baltimore, Md.
Clark, D. P. & Co., Dayton, O.
Columbia Grey Iron Co., Columbia, Pa.
Converse & Co., Winchendon, Mass.
Dayton Pattern & Model Works, Dayton, O.
Devison Mfg. Co. (Electrical & Mechanical Toys), Warren, O.
Eliesac Mfg. Co., Castle, N. Y.
Elm City Mfg. Co., New Haven, Conn.
Estes, E. B. & Sons, 45 John, New York
Fanner Mfg. Co., Cleveland, O.
Foyer Steel Stamping Co. (Barrows, etc.), Palmsville, O.
Garton Toy Co., Sheboygan, Mich.
Gibbs Mfg. Co., Canton, O.
Gilbert, A. & Sons (Wood), Derby, Conn.
Gong Bell Mfg. Co., Easthampton, Conn.
Granite State Mfg. Co., Concord, N. H.
Hampden Toy Co., Westfield, Mass.
Hammond, J. T. & Son, 4334 Hedge, Phila., Pa.
Hardware & Woodenware Mfg. Co. (Iron), 693 B'way, New York
Ilawes-Laanna Co. (Spinning Tops, Building Blocks, Furniture, Return Balls, Jumping Ropes, etc.), Tonawanda, Pa.
Hill Brass Co., Easthampton, Conn.
Horsman, E. & Co., 365 B'way, New York
Ideal Mfg. Co. (Cast Iron), Detroit, Mich.
Ingersoll, Robt H. & Bro., 365 B'way, New York
Instructive Toy Co., 477 40th, Milwaukee, Wis.
Iowa Farming Tool Co., Fort Madison, Iowa
Jones & Blier Mfg. Co., Freemans
Kindergarten Toy Co., Indianapolis, Ind.
Kirby Mfg. Co., Middletown, Conn.
Kirk-Latty Mfg. Co. (Wheelbarrows, etc.), Cleveland, O.
Knapp Electric & Novelty Co., 511 W 51st, New York
Llonell Mfg. Co., 4 White, New York
Lloyd Mfg. Co. (Carriages, Wagons, Go-Carts, etc.), Minneapolis, Minn.
Mace, L. L. & Co., 111 E Houston, New York
Melnecke & Son, Milwaukee, Wis.
Murphy Mfg. Co., Stamford, Conn.
Mount Pleasant Tool Co., Mount Pleasant, Pa.
Nashau Novelty Works, Nashau, N. H.
National Novelty Corp'n, 826 B'way, New York
Nelneke, Adolph & Son, Milwaukee, Wis.
New England Lock & Hinge Co. (Toy Hardware), Winchendon, Mass.
New Haven Toy & Game Co., New Haven, Conn.
Novelty Mfg. Co., Waterbury, Conn.
Osgood Toy Co., Manchester, N. H.
Pldget Novelty Co., 265 B'way, New York
Pleuger & Henger Mfg. Co., St. Louis, Mo.
Reading Hardware Co., Reading, Pa.
Rockwell, Jno. L., Monroeton, Pa.
Rollan Mfg. Co., Mount Joy, Pa.
Richmond Cedar Works, Richmond, Va.
Runnels, E. A. & Co., Boston, Mass.
Scheler, Geo., Dumont, N. J.
Schlesinger, Leo & Co., 372 South, New York

Schocuhut, A. Co. (Pianos, Guns, Sail Boats, Shooting Galleries, Soldier Equipments, Circus Toys, etc.), Adams & Sepoiva, Phila., Pa.
Schultz Novelty Co., 132 Nassau, New York
South Bend Toy Mfg. Co. (Game Boards, Croquet, Baseball Bats, Doll Cabs, Go-carts, etc.), South Bend, Ind.
Schulze, Thos., Sons, Cleveland, O.
Shimer, Wm., Son & Co., Freemansburg, Pa.
Short Mfg. Co., North East, Pa.
Sidney Novelty Co. (Wooden), Sidney, N. Y.
Stowel Co., Putney, Vt.
Teischman, Richard, 85 Water, New York
Thomas-Peter Co. ("National, Indoor Base Ball Game"), Canton, O.
Toledo Metal Wheel Co. (Automobiles, Carriages & Tricycles), Toledo, O.
Toledo Carriage Woodwork Co., Toledo, O.
Travers, G. W., 10 Grand, New York
Wells Bros. & Co., Greenfield, Mass.
Whitney Reed Chair Co., Leominster, Mass.

*Tracing Cloth Powder

SOLTMANN, E. G.
(Also Everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Tracing Cloth & Paper

Cardinell-Vincent Co. (Vellum Tracing Paper), Oakland, Cal.
HARDTMUTH, L. & C. ("Koh-I-Noor"), 34 E 23d, New York. (See adv. index, end of book)
Regina Mfg. Co. (Tracing Cloth), East Greenwich, R. I.

SOLTMANN, E. G.
(Use "Trans-Printa" for increasing the Transparency of Old Tracings & Drawings to be Blue Printed), 125 E 42d, New York. (See adv. index, end of book)

*Track Cleaners (Street Railway)

VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)

Track Movers (Railway)

Mann-McCann Co. ("Greese"), Fisher bldg., Chicago, Ill.

*Track Relays

BUNNELL, J. H. & CO. ("B. & A.") "Universal," "Western", Park pl & Church, New York. ((See adv. index, end of book)

Track Sanders

(See Locomotive Sanders)

Track Sprinklers

(See Cars, Sprinkling, Street Railway)

Tracking (Slaughter House)

Brecht, Gus. V. Butchers' Supply Co. (Overhead), 1201 Cass av, St. Louis, Mo.

*Tracks (Cast Iron Plate)

ERNST WIENER COMPANY.
RAILROAD SPECIALISTS FOR ALL INDUSTRIES.
475 Fulton bldg. New York. (See adv. index & branch offices, end of book)

Tracks (Door Hanger)

Myers, F. E. & Bro., Ashland, O.
Pirkil, John Iron Works (Inc.), 240 N 10th, Brooklyn, N. Y.
Porter, J. E. Co. (For Barn Doors), Ottawa, Ill.

Tracks (Hay Carrier)

Hunt, Helm, Ferris & Co. ("Star" Steel & Wood), Harvard, Ill.
Myers, F. E. & Bro., Ashland, O.
Ney, V. L. Co., Canton, O.
Strickler Hay Tool Co. ("Strickler" Steel), Janesville, Wis.

Tracks (Portable)

(See Railways, Industrial & Portable)

Tracks (Steel Highway)

Steel Highway Track Construction Co., Drexel bldg, Phila., Pa.

Train Rolls

Danville Fdry. & Mach. Co., Danville, Pa.
Morgan Construction Co., Worcester, Mass.
United Engineering & Foundry Co., Farmers' Bank bldg, Pittsburg, Pa.

Trammels

Massachusetts Tool Co., Greenfield, Mass.
Sawyer Tool Co., Fitchburg, Mass.
STARRETT, L. S. CO. (Extension Beam, etc.), Athol, Mass. (See adv. index & branch offices, end of book)

*Tramway Installation

TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

Tramways & Trolleys

(See Trolleys & Trolley Tracks, Overhead; also Wire Rope Tramways)

*Trans-Printa for Increasing the Transparency of Tracings

SOLTMANN, E. G.
(Prints Can be Made from Prints & Increase the Output of the Printing Apparatus), 125 E 42d, New York. (See adv. index, end of book)

Transfer Ornaments

National Decalcomania Co., 250 N 60th, Phila., Pa.
Palm Bros. & Co., Cincinnati, O.
Palm-Fechteler & Co., 67 5th av, New York

Transfer Scrolls

(See Transfer Ornaments)

*Transfer Tables (Hand Power)

CLEVELAND CRANE & ENGINEERING Co., Cleveland, O. (See adv. index & branch offices, end of book)

Transformers

ALLIS-CHALMERS CO., (Light & Power), Milwaukee, Wis. (See adv. index & branch offices, end of book)
American Transformer Co. ("American," High & Low Frequency Type & Oil), Newark, N. J.
Central Laboratory Supply Co., Lafayette, Ind.
Crocker-Wheeler Co., Ampere, N. J.
Duncan Electric Mfg. Co. ("Duncan"), Lafayette, Ind.
Electric Appliance Co. ("Economy" Lamp Regulator), 134 W Jackson boul, Chicago, Ill.
Enterprise Electric Co. ("Peerless"), Warren, Ohio
Fort Wayne Electric W'ks ("Wood"), Fort Wayne, Ind.
GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Hallberg, J. H., 30 Greenwich av, New York
Hartman Circuit Breaker Co., Mansfield, O.
International Elec. Meter Co. (Used in Connection with Ammeters & Voltmeters), Chicago, Ill.
Kuhlman Electric Co., Elkhart, Ind.
Lafayette Electrical Mfg. Co. ("Hornberger"), Lafayette, Ind.
Moloney Electric Co., 425 N 2d, St. Louis, Mo.
National Brake & Electric Co. ("Ceco"), Milwaukee, Wis.
Niagara Engineering Co. ("Niagara"), Manlius, N. Y.
Packard Electric Co. ("Packard"), Warren, O.
Pittsburg Transformer Co., Pittsburg, Pa.
Richter, Eugene L., 1914 Columbia av, Phila., Pa.

Thordarson Elec. Mfg. Co., 159 S Jefferson, Chicago, Ill.
 Vindex Electric Co., Aurora, Ill.
 Wagner Elec. Mfg. Co. (Lighting & Motor), Plymouth av & Wabash R. R., St. Louis, Mo.
 Western Electric Co. ("Lighting," "Potential"), 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
WESTINGHOUSE ELECTRIC & MFG. Co. (Core & Shell Type, for Power & Light). Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

*Transformers (Static)

WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

Transits

Ainsworth, Wm. & Sons ("Brunton" Pocket), Denver, Col.
 Berger, C. L. & Sons, Boston, Mass.
 Iszard-Warren Co. (Inc.) ("Sterling"), 1122 Vine, Phila., Pa.
 Lietz Co., San Francisco, Cal.
STARRETT, L. S. CO. (Leveling), Athol, Mass. (See adv. index & branch offices, end of book)
 Telgmann & Torka (Inc.), San Francisco, Cal.

*Transits & Levels for Engineers

SOLTMANN & CO.

(Also everything for the Architect, Engineer & Draughting Room), 125 E 42d, New York. (See adv. index, end of book)

Translucent Fabrics

Angier Mills, Quincy, Mass.

*Transmission (Automobile)

MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
VAN DORN & DUTTON CO., 2714 E. 79th, S E, Cleveland, O. (See adv. index, end of book)

Transmission Chain

(See Chains, Power Transmission)

Transom Adjusters

Boston Pressed Metal Co. (Adjuster & Lock), Worcester, Mass.
 Greeue, Tweed & Co. ("Empire"), 109 Duane, New York

Transom Lifts

(See Lifts, Transom)

Transplanters (Tobacco)

Eureka Casting & Machine Co. ("Eureka"), Dayton, O.
 Fetzer & Co. (Also for Tomatoes, Cabbage, etc.), Springfield, Ill.
 Fuller & Johnson Mfg. Co., Madison, Wis.
 Masters Planter Co. (Hand), 178 S Water, Chicago, Ill.
 Nagley Mfg. Co. ("Onondaga" Automatic for All Kinds of Plants), Lyons, N. Y.
 Stoddard Mfg. Co., Dayton, O.

Trap Rock

(See also Stone, Crushed)

AMERICAN CONCRETE CO., 80 William, New York. (See adv. index, end of book)

Bouker Contracting Co., 21 State, New York
 Boundbrook Crushed Stone Co., Boundbrook, N. J.
 Clinton Point Stone Co., 115 B'way, New York
 Conklin & Foss, Rockland Lake, N. Y., & 299 B'way, New York
 Connecticut Trap Rock Quarries, New Haven, Conn.
 Cook Stone & Ice Co., Plainville, Conn.
 Dyer, Jno. T. Quarry Co., Norristown, Pa., & 15th & Market, Philadelphia, Pa.
 General Crushed Stone Co., South Bethlehem, Pa., & Glen Mills, Pa.
 Gray Bros. (Crushed), Hayward bldg, San Francisco, Cal.

Keenan, D. F., 721 Main, Hartford, Conn.
 Lane Construction Corp'n, Meriden, Conn.
 McKiernan & Bergin, Paterson, N. J.
 Middle Valley Trap Rock & Mining Co., Middle Valley, N. J.
 New Jersey Trap Rock Co., Morristown, N. J.
 Nyack Trap Rock Co., Nyack, N. Y.
 Pierce, B. D., Jr., 122 Bank, Bridgeport, Conn.
 Rockland Lake Trap Rock Co. (Crushed or Broken), 299 B'way, New York, & Rockland Lake, N. Y.
 Rocky Hill Stone Co., Hartford, Conn.
 Shanley, B. M. & J. F. Co., Arcade Bldg, Philadelphia, Pa., & 859 Broad, Newark, N. J.
 Spence Bros. Construction Co., 2409 Euclid av, Cleveland, O.
 Storm King Stone Co., 90 West, New York
 West Roxbury Trap Rock Co., Grove & Centre, W. R., Boston, Mass.

Traps (Animal)

Animal Trap Co., Lititz, Pa.
HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
NIAGARA FALLS METAL STAMPING Works, Niagara Falls, N. Y. (See adv. index, end of book)

Traps (Back Water)

Barrett, Jas. Mfg. Co., 211 Franklin, Boston, Mass.
 Miller Foundry & Specialty Co. (And Cellar Drains), North Tonawanda, N. Y.
 Murphy Specialty Co. ("Murphy," Combined Catch Basin & Back Water Trap), Milwaukee, Wis.
 Perfect Sewer Trap Mfg. Co., 61 Beekman, New York
 Swett, A. L. Iron Works, Medina, N. Y.

Traps (Bath & Basin)

A. D. Mfg. Co. (Nickel Plated), Detroit, Mich.
 Clarke, Robert (Non-Syphoning Bath), 100 Schermerhorn, Brooklyn, N. Y.
 Climax Specialty Co., Elmira, N. Y.
 Dayton Supply Co. ("Upon Floor" Bath), Dayton, O.
 Frost Mfg. Co. ("Femco"), Kenosha, Wis.
 Haines, Jones & Cadbury Co. ("Hajoca" Bath), 1130 Ridge av, Phila., Pa.
 Ideal Mfg. Co. (Laboratory), Detroit, Mich.
 Ireland & Matthews Mfg. Co. ("Boss" & "S"), Detroit, Mich.
 McAuliffe Non-Syphoning Trap Co. ("McAuliffe"), Chelsea, Mass.
 Murphy Specialty Co. ("Murphy"), Milwaukee, Wis.
 National Mfg. & Supply Co. ("National" Combined Bath Trap, Waste & Overflow), Minneapolis, Minn.
 Ohio Brass & Iron Mfg. Co., Cleveland, O.
 Scully, W. J. Ventilator & Mfg. Co. (Scully Self-Cleaning), Detroit, Mich.
 Standard Brass & Iron Works ("Dale" Catch Basin), Milwaukee, Wis.
 Sure Seal Trap Co. (Nickel Plated Brass), Providence, R. I.
 Wolverine Brass Works, Grand Rapids, Mich.

Traps (Bell)

Barber Mfg. Co., Ashtabula, O.
 Edwardsville Brass Co. (Brass), Edwardsville, Ill.

Traps (Bi-Metallic Plated)

American Shot & Lead Co., St. Louis, Mo.
 A. D. Mfg. Co., Beaubien & Trombley, Detroit, Mich.

Traps (Centrifugal)

Ideal Mfg. Co., 546 Franklin, Detroit, Mich.

Traps (Drainage)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 National Tube Co., Pittsburg, Pa.

*Traps (Game)

ONEIDA COMMUNITY (Ltd.), Dept. G. (For All Kinds of Game), Oneida, N. Y. (See adv. index & branch offices, end of book)

Traps (Gopher)

Falis Mfg. Co. ("Nox-Ali" Dead Shot & Double Grip), San Francisco, Cal.

Traps (Grease)

Barrett, Jas. Mfg. Co., 211 Franklin, Boston, Mass.
 Estabrook's, R. Sons ("Estabrook," "Boston"), 204 W 1st, S. B., Boston, Mass.
 Morrison-Kretschmer Co., Dubuque, Iowa
 Mott, J. L. Iron Works ("Tucker" & "Tobey"), 5th av & 17th, New York

Traps (Ground Mole)

HEARTLEY MACHINE, VARIETY Iron & Tool Works, Toledo, O. (See adv. index, end of book)
 Wherry, William N., Plymouth, Mich.

Traps (Railway, Steam)

CHICAGO CARHEATING CO., Railway Exchange bldg, Chicago, Ill., & 170 B'way, New York (See adv. index, end of book)
 Houghton, E. F. & Co. ("Marck"), 240 W Somerset, Phila., Pa.
 Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

Traps (Rat & Mouse)

Abingdon Trap Co. ("H"), Abingdon, Ill.
 Animal Trap Co. ("Out-o-Sight," "Blizzard," "Easy Set," "Zip" & "Wizzard"), Lititz, Pa.
 Chasse Mfg. Co. ("Acme" Mouse Trap), 57 Vesey, New York
DARBY, EDW. & SONS CO. ("French American"), 239 Arch, Phila., Pa. (See adv. index, end of book)
 Delphos Mfg. Co. ("Lightning Re-set"), Delphos, O.
 Detroit Wire & Iron Wks. ("Smith's Never Escape" & Improved "Morty" Pattern), Detroit, Mich.
 Hamblin & Russell Mfg. Co., Worcester, Mass.
 Lovell Mfg. Co. ("Anchor"), Erie, Pa.
 Piggott Mfg. Co. ("Mirror Decoy"), 9 Woodward av, Detroit, Mich.
 Reed, E. L. Mfg. Co. ("Fingersafe"), Sterling, Ill.
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Stansbury, H. O. Co., 18 N 6th, Phila., Pa.
SUN MFG. CO., COLUMBUS, O. (See adv. index, end of book)
 Wire Goods Co. (Wire & Wood Bottom), Worcester, Mass.
 Woolson, James B., Watertown, Conn.
 Worcester Wire Novelty Co. ("Hold-Em"), Canton, O.

Traps (Sewer Gas)

Barrett, Jas. Mfg. Co., Boston, Mass.
 Barry Mfg. Co., Muscatine, Iowa
 Boston Brass Co., 36 Oliver, Boston, Mass.
CENTRAL FOUNDRY CO. ("Sure-Seal," etc.), 37 Wall, New York. (See adv. index, end of book)
 Clarke, Rob't, 98 Schermerhorn, Brooklyn, N. Y.
 Counolly, P. ("The Globe" Non-Syphoning), 1154 Atlantic av, Brooklyn, N. Y.
 Cudeli, F. E., Cleveland, O.
 Dececo Co., Boston, Mass.
 Detroit Sanitary Supply Co. ("Clean Sweep" Non-Syphoning), Detroit, Mich.
 Dubois, F. N. Co. (Anti-Syphon Trap Vent), 245 9th av, New York
 Federal-Huber Co. ("Protector," Non-Syphoning), Halsted & Fuiton, Chicago, Ill., & 244 5th av, New York
 Goulds Mfg. Co., 16 Murray, New York, & Seneca Falls, N. Y.
 Humphreys, Mfg. Co., Mansfield, O.
 Hydraulic Specialty Co., 427 Walnut, Phila., Pa.
 Ideal Mfg. Co., 546 Franklin, Detroit, Mich.
 Illinois Malleable Iron Co., 515 Diversey Boul., Chicago, Ill.
 Iowa Fitting Co. ("Barker"), Marshalltown, Iowa
 Jenkins Mfg. Co. ("Sanos"), Bloomfield, N. J.
 King Mfg. Co., Watervliet, N. Y.
 McCambridge & Co. (Ltd.), 315 N 20th, Philadelphia, Pa.
 Monarch Brass Co. ("Bower"), Cleveland, O.
 Mott, J. L. Iron Works, 118 5th av, New York
 Northwestern Foundry & Supply Co. (Cast Iron), Orleans nr Grand boul, Detroit, Mich.
 Ohio Brass & Iron Mfg. Co., Cleveland, O.
 Park & McKay Co., 55 Bagley, Detroit, Mich.

Perfect Sewer Trap Mfg. Co., 61 Beekman, New York
 Providence Steam Trap Co. (Lead & Brass), 16 Diamond, Providence, R. I.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.
 Sproul & McGurran ("Excelsior" Grease Traps), Grand Rapids, Mich.
 Standard Sanitary Mfg. Co., Bessemer bldg, Pittsburgh, Pa.
 Sure Seal Trap Co. (Basin, Urinal, Bath, etc.), Providence, R. I.
 Victor Excelsior Brass Works, 128 White, New York
 Wolff, L. Mfg. Co., 117 W Lake, Chicago, Ill.

Traps (Sewer, Tide & Back Water)

Barrett, Jas., Mfg. Co., 211 Franklin, Boston, Mass

Traps (Steam)

Acton, Jno. ("Old Reliable"), 118 John, Brooklyn, N. Y.
 Albany Steam Trap Co. ("Blessing"), 60 Church, Albany, N. Y.
 Albert Pipe & Supply Co., Bay City, Mich.
 American Blower Co. ("Detroit"), 1400 Russell, Detroit, Mich.
 American District Steam Co. ("Star", "Holly", "Niagara" & "Empire"), 101 Elm, Lockport, N. Y.
 Anderson, V. D. Co. ("Anderson"), 1935 W 96th, Cleveland, O.
 Ashcroft Mfg. Co. ("McCracken", "Royle"), 85 Liberty, New York
 Atwood & Morrill ("XXth Century"), Salem, Mass.
 Baldwin Engineering Co., 107 W 17th, New York
 Bayley Mfg. Co., Milwaukee, Wis.
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Berry Engineering Co., Chester, Pa.
 Boston Machine Works, Lynn, Mass.
 Boston Steam Specialty Co. ("Ketcham"), 168 Congress, Boston, Mass.
 Bourdon Co. ("Rex" "Twin Tube"), Boston, Mass.
 Buffalo Forge Co. (Automatic Pump & Receiver Type), Buffalo, N. Y.
 Burrows Mfg. Co., York, Pa.
 Central Station Steam Co., Detroit, Mich.
 Chester Engineering & Machine Co. ("Walters"), Chester, Pa.
 Consolidated Engineering Co. ("Van Auken"), Jackson & Canal, Chicago, Ill.
 Consolidated Mfg. & Supply Co. ("Vance"), Pittsburgh, Pa.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Davis, Geo. M. Regulator Co., 144 Milwaukee av, Chicago, Ill.
 D'Este, Julian Co. ("Curtis"), 24 Canal, Boston, Mass.
 Direct Separator Co. ("Powers"), Syracuse, N. Y.
 Dunham, C. A. Co. ("Dunham," Drain Valve & Steam Trap), Marshalltown, Ia.
 Durable Steam Trap Co. ("Cannon"), Youngstown, O.
 Economy Specialty Co., 2228 W 49th pl, Chicago, Ill.
 Exeter Machine Works, Exeter, N. H.
 Eynon-Evans Mfg. Co. ("Smurthwaite"), 1519 Clearfield, Philadelphia, Pa., & 107 Liberty, New York
 Fairbanks Co. ("Pratts"), 186 Lafayette, New York
 Flinn, R. J. ("Flinn" Differential), W Roxbury Station, Mass.
 Ford, Thos. P. Co. (Compound), 407 Broome, New York
 Fosket & Bishop Co. ("Fosket & Bishop"), New Haven, Conn.
 Funke, Franz Steam Trap Co., Milwaukee, Wis.
 Garratt, W. T. & Co. ("McKellar"), San Francisco, Cal.
 General Fire Extinguisher Co., Providence, R. I.
 Glover Bros. ("John Glover", "Jones"), Panl & Vandike, Fkd., Phila., Pa.
 Golden-Anderson Valve Specialty Co. ("Golden" Tilting), Fulton bldg, Pittsburgh, Pa.
 Haines, Wm. S. Co. ("Helntz"), 136 S 4th, Philadelphia, Pa.
 Hoffman Mfg. Co., Milwaukee, Wis.
 Houghton, E. F. & Co. ("Marck," also Railway Traps), 240 W Somerset, Phila., Pa.
 Hughson Steam Specialty Co. ("Eclipse"), 5021 S State, Chicago, Ill.
 Hussey, McCann & Co. ("Peerless"), 87 Warren, New York
 Illinois Malleable Iron Co., 515 Diversity boui, Chicago, Ill.
 Johnston, Robt. C. & Co. ("Smith"), Cincinnati, O.
 Johnston, Wm. T. Co. ("Johnston" Brand), Cincinnati, O.

Kelly & Jones ("Nason" Pattern), Pittsburgh, Pa.
 Kieley & Mueller ("Standard" & "Champion"), 7 W 13th, New York
 Kitts Mfg Co., Oswego, N. Y.
 Klipfel Mfg. Co. ("K. & T."), 44 N Carpenter, Chicago, Ill.
 Lawler Regulator Co. ("Lawler's," "Empire" & Monitor," "Lawler's" Duplex & Return Trap), 473 W B'Way, New York
 Lawson, Henry ("Hawes"), 207 Centre, New York
 Lindstrom, Jno. T., Allentown, Pa.
 Linton Machine Co. ("Komo"), 26 Cortlandt, New York
 Lippincott Steam Specialty & Supply Co. ("Lippincott"), Newark, N. J.
 Locke Regulator Co., Salem, Mass.
 Lonergan, J. E. & Co. ("Reliable"), 211 Race, Phila., Pa.
 Lytton Mfg. Corp'n ("Lytton"), Franklin, Va.
 McAuley Automatic Trap Co. ("McAuley" Automatic), Pittsburgh, Pa.
 McCrea, Jas. & Co. ("H. H."), 67 W Wash'n, Chicago, Ill.
 McMann's, Thos. R. Sons ("Russell"), 58 Gold, New York
 Marsh, Jas. P. & Co., Chicago, Ill.
 Mitchell, W. K. & Co. ("Denny" High & Low Pressure), Schuylkill av & Ellsworth, Phila., Pa.
 Monash-Younger Co. ("Mo-Yo-Co," "Fidelity" & "Monash"), 203 S Canal, Chicago, Ill.
 Mongrieve Engineering Co. ("Angell"), Perth Amboy, N. J.
 Morehead Mfg. Co. ("Morehead" Non-Return), Detroit, Mich.
 Mott, J. L. Iron Works ("Tobey"), 118 5th av, New York
 Murray Automatic Boiler Feed Co., 892 Scotten av, Detroit, Mich.
 Nason Mfg. Co. ("Nason" & "Sliding"), 71 Beekman, New York
 National Blower Works ("National"), Milwaukee, Wis.
 National Dry Kiln Co. ("National"), Indianapolis, Ind.
NATIONAL GAUGE CO., 168 8th, Brooklyn, N. Y. (See adv. index, end of book)
 National Steam Specialty Co., 230 E Wash'n, Chicago, Ill.
 National Supply Co., 1 St. Clair, Toledo, O.
 National Tube Co., Pittsburgh, Pa.
 Neff, Geo. W. & Co. ("Vesuvius" Self-Cleaning), 42 Broadway, New York
 Nelson, Chas. ("Dinkel"), 439 E 10th, New York
 Nichols, E. M. ("Hardy"), 639 Arch, Philadelphia, Pa.
 Nicholson, W. H. & Co. ("Wyoming"), Wilkes-Barre, Pa.
 Oliver & Howland Co. ("Howland"), Springfield, Mass.
 Pancoast, Henry B. & Co. ("Barr's"), 243 S 3d, Philadelphia, Pa.
 Parker Mfg. Co. ("Standard" & "Upton"), Boston, Mass.
 Pearce, W. H. & Co. ("Crescent"), 269 Dearborn, Chicago, Ill.
 Pittsburgh Valve & Fittings Co. ("Pittsburgh"), Pittsburgh, Pa.
PITTSBURGH GAGE & SUPPLY CO. ("Pittsburgh"), 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th st & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
 Platt, Jno. ("Geipels"), 97 Cedar, New York
 Pratt & Cady Co., Hartford, Conn.
 Prims, J. C. Machinery Co. ("Taylor"), Battle Creek, Mich.
 Providence Steam Trap Co. ("Newton"), Providence, R. I.
 Reliance Gauge Column Co. ("Reliance"), Cleveland, O.
 Rutzler, E. Co. (Automatic), 127 White, New York
 Ryan, E. J., Danville, Ill.
 Schaeffer & Bundenberg Mfg. Co. ("Acme," "Nason Pattern" & Expansion), 963 Kent av, Brooklyn, N. Y.
 Schotte Specialty Co. ("Combi" Recording), American Trust bldg, Chicago, Ill.
 Schoonmaker, A. G. Co., 143 Liberty, New York
 Schutte & Koerting Co. ("Mueller-Schutte," "Watson," "Mill"), 1251 N 12th, Phila., Pa.
SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)
 Standard Steam Specialty Co. ("Sirius"), 542 W B'way, New York
 Steam Appliance Co. ("Triumph" Steam Actuated), Milwaukee, Wis.
STRONG, CARLISLE & HAMMOND Co. (The "Squires," "Winter"), Cleveland, O. (See adv. index, end of book)
 Sturtevant, B. F. Co., Hyde Park, Mass.

Templeton Mfg. Co. ("Sterling"), Boston, Mass.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
 Watson & McDaniel Co. ("McDaniel," "Reliable," "Chapman," "Columbia"), 146 N 7th, Philadelphia, Pa.
 Watts Regulator Co., Lawrence, Mass.
 Williams, D. T. Valve Co. ("Cookson"), 410 E 8th, Cincinnati, O.
 Williams Gauge Co. ("Williams" Bucket & Steam Operated), Pittsburgh, Pa.
 Wright Mfg. Co. ("Wright Emergency" & "Victor" Low Pressure), Detroit, Mich.

Traps (Target)

Hoyt Metal Co., St. Louis, Mo. & Perth Amboy, N. J.

Traps (Vacuum)

Lytton Mfg. Corp'n ("Lytton"), Franklin, Va.
 Newman Mfg. Co., 26 Cortlandt, New York
STRONG, CARLISLE & HAMMOND Co. ("The Winter"), 336 Frankfort av, N. W., Cleveland, Ohio. (See adv. index, end of book)

Traps (Waste)

Sure Seal Trap Co. (Inc.) (Non-Syphon), 95 Pine, Providence, R. I.

*Travelers (Ferry)

DOBBIE FOUNDRY & MACHINE CO., Niagara Falls, N. Y. (See adv. index & branch offices, end of book)

Traveling Bags & Suit Cases

(See also Trunk Manufacturers)

Abel & Bach Co., Milwaukee, Wis.
 Atlas Suit Case Co., 32 Howard st, New York
 Barnum Trunk Co., 715 Nicollet av, Minneapolis, Minn.
 Belber Trunk & Bag Co., Columbia av & Macher, Phila., Pa.
 Boyle, John & Co., 112 Duane st, New York
 Co-operative Mfg. Co., West Somerville, Mass.
 Crane Cros., Westfield, Mass.
 Crouch & Fitzgerald, 161 B'way, New York
 Duguid Bros., Toledo, O.
 Elias, Charles, 253 Bowery, New York
 Enterprise Bag Co., 14 Thomas, New York
 Excelsior Trunk Co., Kansas City, Mo.
 Fabric Leather Co., Defiance, O.
 Fibre Specialty Co., Kennett Square, Pa.
 Galewski, S., 521 B'way, New York
 Gerding, Geo. W., 405 Commerce, Phila., Pa.
 Gibb & Harris, Los Angeles, Cal.
 Hahn & Aberg, 569 B'way, New York
 Hartmann Trunk Co., Chicago, Ill.
 Haskell Bros., Wabash av & Wash'n st, Chicago, Ill.
 Headley & Farmer Co., Harrison, N. J.
 Kuester, August, 417 Market, Phila., Pa.
 Lanz, Owen & Co., 70 W. Jackson Blvd, Chicago, Ill.
 Leatheroid Mfg. Co., Kennebunk, Me.
 Likly, Henry & Co., Rochester, N. Y.
 Lowy, A., 6 Wooster, New York
 Lowy & Co., 29 Lispenard, New York
 Malm, C. A. & Bro., San Francisco, Cal.
 Mayer, Max, 131 N 10th, Phila., Pa.
 Meier, Jacob F. Co., Detroit, Mich.
 New England Trunk Co., Boston, Mass.
 Peddie, T. B. & Co., Salesroom, 368 B'way, New York. Factory, Newark, N. J.
 Rippe & Fine, 68 Thomas, New York
 Rubenstein, A., 25 White, New York
 Schmickl, F. & Co., 558 B'way, New York
 Schmit Bros. Trunk Co., Oshkosh, Wis.
 Secor, M. M. Trunk Co., Racine, Wis.
 Warren Leather Goods Co., Worcester, N. Y.
 Weingarten & Geberer, 46 Howard, New York
 White, E. H. Co., 443 N 10th, Phila., Pa.
 Wilt, Chas. T., 180 Wabash av, Chicago, Ill.

Trays (Brass)

Knapp Mfg. Co. (Bar, Candy, etc.), 20 Warren, New York
 Sweeney, W. H. Mfg. Co. (All Styles), 66 Water, Brooklyn, N. Y.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Trays (Core)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Treadles (Foot Power)

Slotkin Mayer (For Light Machinery, etc.),
210 Canal, New York

Treads (Car Step)

(See Car Steps & Treads)

Treads (Dog Power)

(See also Horse Powers)

Dohson Mfg. Co., Rockford, Ill.
Gowanda Agricultural Works, Gowanda, N. Y.
McDermald, J., Rockford, Ill.
Lamb & Co., Freeport, Ill.

Treads (Push Button Floor)

Ansonia Electrical Co. ("Daisy"), Ansonia,
Conn.
Renim Specialty Co. ("Ideal"), Brighton Sta-
tion, Boston, Mass.

Treads (Rubber)

(See Mats & Matting, Rubber)

Tree Guards

(See Wire Workers; also Wire Fence & Gates;
also Iron Railings & Fences)

Treenails

Hoskins, J. S. Lumber Co. ("Locust," for Shlp
Purposes), Baltimore, Md.

Trench Machines

(See Sewer & Trench Excavating Machines)

Trestles (Painters' & Masons')

Burroughs, W. E., 87th av, Brooklyn, N. Y.
Frizell Ladder Co., 135 Granite av, Dor-
ton, Mass.
Moulton, C. W. & Co., Somerville, Mass.

Trestles (Shaft Hanging)

Portland Extension Ladder Co. ("Excelsior"
Folding Extension Trestle or Scaffold Horse).
130 Orange, Newark, N. J.

***Trestles (Steel Frame)**

SCAIFE, WM. B. & SONS CO., 221
1st av, Pittsburg, Pa. (See adv. index, end
of book)

Triangles

Brown & Sharpe Mfg. Co. (Steel), Providence,
R. I.
Disston, Henry & Sons (Inc.) (Steel), Tacony,
Phila., Pa.
Humasn & Beckley Mfg. Co., New Britain,
Conn.
Kalamazoo Railway Supply Co. ("Safety"),
Kalamazoo, Mich.
Smith, E. G. Co. (German Silver), Columbia,
Pa.

SOLTMANN, E. G.

(Wood with Transparent Edges; also Every-
thing for the Architect, Engineer & Draught-
ing Room), 125 E 42d, New York. (See adv.
index, end of book)

Trimmers (Bolt Head)

BLISS, E. W. CO., 19 Adams, Brooklyn,
New York. (See adv. index, end of book)
National Machinery Co., Tiffin, Ohio.
Waterbury Farrel Foundry & Machine Co.,
Waterbury, Conn.

Trimmers (Grass)

Barr Lawn Trimmer Co. ("Barr" Lawn Trim-
mer), Lancaster, Pa.
Townsend, S. P. & Co., Orange, N. J.

Trimmers (Hedge)

Amerlean Axe & Tool Co., Glassport, Pa.
Stearns, E. C. & Co. (Or Lawn), Syracuse,
N. Y.

Trimmers (Hoof)

Muncie Wheel & Jobbing Co. ("Easy" for Trim-
ming Horse Hoofs), Muncie, Ind.

Trimmers (Lamp)

Aeme Shear Co., Bridgeport, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Ives, H. B. Co. ("Barnard"), New Haven, Conn.

Trimmers (Lumber)

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices, end
of book)

American Sawmill Machinery Co. ("Ameri-
can"), 50 Church, New York, & Hack-
ettstown, N. J.

Baldwin, Tuthill & Bolton, Grand Rapids,
Mich.

Clark Bros. Co., Belmont, N. Y.

Cook, R. A., Stevens Point, Wis.

Curtis & Co. Mfg. Co., St. Louis, Mo.

De Loach Mill Mfg. Co., Bridgeport, Ala.

Diamond Iron Works ("Wilkinson," "Diamond"
& "Harmon"), Minneapolis, Minn.

Filler & Stowell Co., Home Office, Milwaukee,
Wis.

Fox Machine Co. ("Universal"), Grand Rapids,
Mich.

Garland, M. Co. (Two Saw), Bay City, Mich.

Gordon Hollow Blast Grate Co. (The "Tower"),
Greenville, Mich.

Henderson, W. K. Iron Works & Supply Co.,
Shreveport, La.

Howell, R. R. & Co., Minneapolis, Minn.

Lane Mfg. Co., Montpelier, Vt.

Link Belt Co., 39th & Stuart av, Chicago, Ill.

Murray, J. D. Mfg. Co., Wausau, Wis.

Oliver Machinery Co. ("The Oliver"), Grand
Rapids, Mich.

Phoenix Mfg. Co., Eau Claire, Wis.

Smith, Myers & Schnier Co., Cincinnati, O.

Southern Engine & Boiler Works, Jackson, Tenn.

Standard Saw Mill Machinery Co., Erie, Pa.

Stearns Co., Erie, Pa.

Union Iron Works, Bangor, Me.

Wheland Machine Works, Chattanooga, Tenn.

Wickes Bros., Saginaw, Mich.

Trimmers (Paper Hangers')

(See also Tools, Paper Hangers')

Ridgeley Trimmer Co., Springfield, O.

Standard Trimmer Co., Springfield, O.

Webster & Perks Tool Co. ("Simplex"), Spring-
field, O.

***Trimmers (Sheet Metal)**

BLISS, E. W. CO., 19 Adams, Brook-
lyn. (See adv. index, end of book)

Trimmers (Slate)

Ruggles Machine Co., Poultney, Vt.

Trimmers (Spoke)

Bouney Vise & Tool Works (Inc.), Allen-
town, Pa.

Millers Falls Co., 28 Warren, New York, Works,
Millers Falls, Mass.

Trimmers (Tree)

(See also Shears, Pruning)

Klein, Mathias & Son, 87 W Van Buren, Chi-
cago, Ill.

Oshkosh Tool Mfg. Co., Oshkosh, Wis.

Trimmers (Wall Paper)

(See Trimmers, Paper Hangers')

Trimmings (Bedstead)

Scovill Mfg. Co., Waterbury, Conn.

Trimmings (Car)

(See Car Trimmings)

***Trimmings (Curtain Pole)**

TURNER & SEYMOUR MFG. CO., Tor-
rington, Conn. (See adv. index, end of book)

Trimmings (Fancy Box)

Hassall, John (Hinges, Catches, etc.), 171 La-
fayette, New York

Trimmings (Furniture)

American Ring Co., Waterbury, Conn.
Artistic Bronze Co., South Norwalk, Conn.
Grand Rapids Brass Co. (Metal Escutcheons
Knobs, Pulls, Locks, Hinges, etc.), Grand
Rapids, Mich.
Novelty Mfg. Co. (Metal), Waterbury, Conn.

Trimmings (Refrigerator)

Dent Hardware Co., Fullerton, Pa.

Trimmings (Smoking Pipe)

Novelty Mfg. Co. (Brass), Waterbury, Conn.

Trimmings (Table Cutlery)

Novelty Mfg. Co., Waterbury, Conn.

***Tripods (Drill)**

INGERSOLL-RAND CO., 11 B'way,
New York. (See adv. index & branch of-
fices, end of book)

Tripoli

American Tripoli Co., Seueca, Mo.
Cobutta Tale Co. (Miners' & Refiners'), Dalton,
Ga.

DOGGETT, STANLEY, 101 Beckman,
New York. (See adv. index, end of book)

National Tripoli Co. (Stone & Flour, also Floor
Polish), Columbus, O.

***Trippers (Belt)**

WEBSTER MFG. CO., 1075 W. 15th
Chicago, Ill., & 88 Reade, New York.
(See adv. index & branch offices, end of book)

Trolley Cord

(See Cords, Trolley, Arc Lamp & Bell)

Trolley Ears

Allen Fire Department Supply Co., Provid-
ence, R. I.

Americau General Engineering Co., 253 B'way,
New York

Anderson, Albert & J. M. Mfg. Co., Boston,
Mass.

Aurora Specialty Mfg. Co. (Of All Kinds),
Aurora, Ill.

Chester Railway Supply Co. ("Dyer"), Ches-
ter, Pa.

Columbia Machine Works & Malleable Iron Co.,
169 Chestnut, Brooklyn, N. Y.

Creaghead Engineering Co., 340 Main, Cincin-
nati, O.

Electric Service Supply Co., 1024 Filbert,
Phila., Pa.

Electric Traction Supply Co., St. Louis, Mo.

Eureka Tempered Copper Works, North East,
Pa.

Morris, Elmer P. Co., 90 West, New York

Ohio Brass Co., Mansfield, O.

Western Electric Co., 259 S. Clinton, Chicago
Ill., & 57 Bethune, New York

Trolley Harps or Forks

(See Forks, Trolley; also Trolley Line Mate-
rials)

Trolley Line Materials

(See also Railway Supplies, Electric)

Ajax Line Material Co., 12 S Jefferson, Chi-
cago, Ill.

American General Engineering Co. ("A-G-E"),
253 B'way, New York

Anderson, Albert & J. M. Mfg. Co. (Overhead),
280 A. S. Boston, Mass.

Archbold-Brady Co., Syracuse, N. Y.

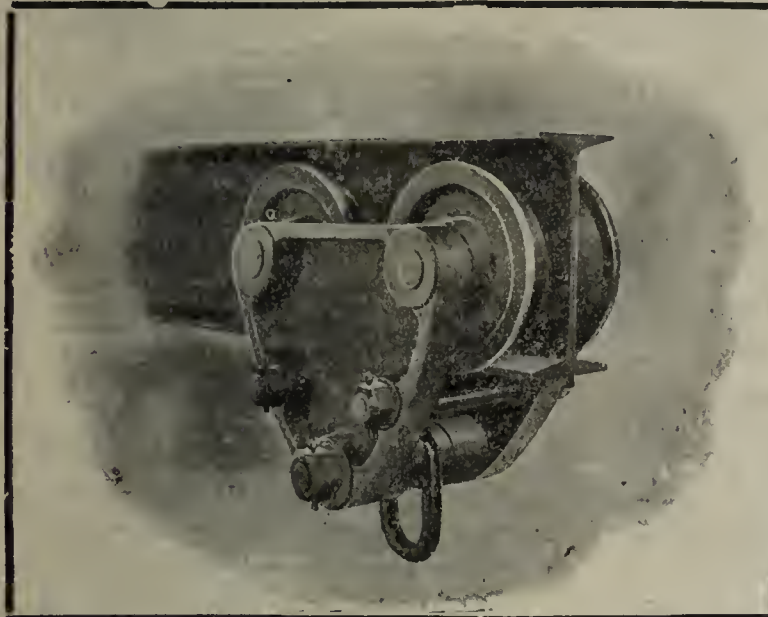
Aurora Specialty Mfg. Co., Aurora, Ill.

Bayonet Trolley Harp Co. (Detachable Trolley
Harp & Butterfly Sleet Cutter), Spring-
field, O.

Boston Electric Co., 29 Harrison av, Boston,
Mass.

**When writing to firms whose
names appear in this book
please mention**

**HENDRICKS'
COMMERCIAL REGISTER.**



Trolleys - Cranes - Conveyors
Engineers' Special Machinery
Castings - Structural Work
 MANUFACTURERS OF
BEST ROLLER BEARINGS MADE
"IDEAL" Patented Industrial Railways
U. S. and Foreign Government Contractors
Ordnance Supplies - Fortifications

G. & W. MFG. CO.

INCORPORATED 1899

NEW YORK

Central Union Brass Co. ("Gem"), St. Louis, Mo.
 Chester Railway Supply Co. ("Dyer" Trolley Ears, etc.), Chester, Pa.
 Clark Elec. & Mfg. Co. ("Clark"), 137 B'way, New York
 Columbia Machine Works & Malleable Iron Co. (Strain Line Anchor, etc.), 269 Chestnut, Brooklyn, N. Y.
 Creaghead Engineering Co. ("Bourbon"), Cincinnati, O.

Eccles & Smith Co., San Francisco, Cal.
 Electric Railway Equipment Co., 1938 W. 5th, Cincinnati, O.
 Electric Service Supplies Co. ("Keystone"), 1024 Filbert, Phila., Pa.
 Electric Traction Supply Co. (Brouse Ears, Splicing Sleeves, etc.), St. Louis, Mo.
 Elyria Trolley Supply Co. (Trolley Wheels & Harps), Elyria, O.
 Eureka Tempered Copper Works (Trolley Ears, Splicers, etc.), North East, Pa.
 Garton, W. R. & Co. (Flexo & Semi-Flexo Trolley Ears; Mabir & Hivol Pins, etc.), 118 W Jackson boul, Chicago, Ill.

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Hall, Wm. & Co., 7 Dock sq., Boston, Mass.

JEFFREY MFG. CO., (Mine), 90 Columbus, O. (See adv. index & branch offices, end of book)

Johns, H. W.-Mauville Co. ("J. M."), 100 William, New York

Keystone Drop Forge Works (Harps, etc.), Chester, Pa.

Kingsland-Kay-Cook Mfg. Co., Mullanphy & 11th, St. Louis, Mo.

Lang, J. Electric Co., 116 N Lincoln, Chicago, Ill.

Lovell, F. H. & Co., New York

Macallen Co., cor. Foundry & Division, Boston, Mass.

More-Jones Brass & Metal Co., St. Louis, Mo.

Morris, Elmer P. Co., 90 West, New York

New Departure Mfg. Co. (Harps, etc.), Bristol, Conn.

NUTTALL, R. D. CO. ("Union Trolley Harps"), Fayette & Garrison pl, Pittsburgh, Pa. (See adv. index, end of book)

Ohio Brass Co. (Overhead), Mansfield, O.

Phila. Electrical & Mfg. Co. ("Pemo" Feeder Arms, etc.), 1232 N 31st, Phila., Pa.

Pittsburg Pole & Forge Co. (Complete Line for Overhead Construction), Pittsburg, Pa.

Post-Grover Electric Co., 314 W 4th, Cincinnati, Ohio

Recording Fare Register Co. (Multi-Ampere Trolley Harps & Other Specialties), New Haven, Conn.

Ridlon, Frank, Co., 200 Summer, Boston, Mass.

Star Brass Works, Kalamazoo, Mich.

Sterling-Meaker Co., 420 Ogden, Newark, N. J.

Stuart-Howland Co., 279 Devonshire, Boston, Mass.

Wallace Supply Co., 23 S Jefferson, Chicago, Ill.

Western Electric Co. ("Electrose," Overhead), 259 S Clinton, Chicago, Ill. & 57 Bethune, New York

WESTINGHOUSE ELEC. & MFG. CO., Union Bank bldg, Pittsburgh, Pa. (See adv. index & branch offices, end of book)

Trolley Pole Brackets

(See Brackets, Trolley Pole)

Trolley Pole Catchers

(See Catchers & Retrievers, Trolley)

Trolley Poles

(See Poles, Various Kinds; also Ties, Poles & Posts)

Trolley Wheels

(See Wheels, Trolley)

Trolleys (Electric Conveying)

Yale & Towne Mfg. Co., 9 Murray, New York

*Trolleys (Mine)

NUTTALL, R. D. CO., Fayette & Garrison pl, Pittsburgh, Pa. (See adv. index, end of book)

Trolleys & Chairs (Cable Stringing)

Bissell, F. Co. ("Security"), Toledo, O.

Central Telephone & Elec. Co. ("Arrow"), St. Louis, Mo.

Matthews, W. N. & Bro. ("Callahan"), St. Louis, Mo.

Oshkosh Logging Tool Co., Oshkosh, Wis.

Trolleys & Trolley Tracks (Overhead)

Bartholomew, H., Phoenixville, Pa.

Bethlehem Foundry & Machine Co., Front, South Bethlehem, Pa.

Box, Alfred & Co., 813 N Front, Phila., Pa.

BROWN HOISTING MACHINERY CO., 4403 St. Clair, N. E., Cleveland, O. (See adv. index & branch offices, end of book)

Case Crane Co. (I Beam), Columbus, O.

CHISHOLM & MOORE MFG. CO., (Geared & Plain Yoke Trolleys), 49th & Lake, Cleveland, O. (See adv. index, end of book)

Cleveland Car Co., West Park, O.

Coburn Trolley Track Mfg. Co., Holyoke, Mass.

COHOES IRON FOUNDRY & MACHINE Co., Cohoes, N. Y. (See adv. index, end of book)

Curtis & Co., Mfg. Co. (Air Motor, Beam Trolleys, & Tunnelson Beam Trolley Hoists, etc.), St. Louis, Mo.

Dake Engine Co. (Pneumatic & Steam), Grand Haven, Mich.

DETROIT HOIST & MACHINE CO., Detroit, Mich. (See adv. index, end of book)

FREVERT MACHINERY CO., 18 Dey, New York. (See adv. index, end of book)

G. & W. MFG. CO., 26 Cortlandt, New York. (See adv. index, end of book)

Gregg Company (Ltd.), Newburgh, N. Y.

Harrington, Edw. Son & Co., 17th & Callowhill, Phila., Pa.

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Hunt, C. W. Co. (Iand), West New Brighton, S. I., N. Y.

IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 157 Chambers, New York. (See adv. index, end of book)

McCABE HANGER MFG. CO. (Eye Beam), 425 W. 25th, New York. (See adv. index, end of book)

Maris Bros., 56th & Grays Ferry rd, Phila., Pa.

Moore, Franklin Co., Winsted, Conn.

Myers, F. E. & Bro., Ashland, O.

North Alabama Engineering Co., New Decatur, Ala.

NEW JERSEY FOUNDRY & MACHINERY Co., 90 West, New York. (See adv. index & branch offices, end of book)

NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Obenberger, Jno. Co. (Flat Bar & I Beam), Milwaukee, Wis.

Philadelphia Tram-Rail Co., Front & Tusculum, Phila., Pa.

Randall, R. T. & Co., 333 N 2d, Phila., Pa.

READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)

Richards Mfg. Co. ("Richards" Trolley Overhead Carriers), Aurora, Ill.

Round, David & Son, Cleveland, O.

Shepard Electric Crane & Hoist Co. (Electric & Pneumatic, Plain & Geared, I-Beam), Montour Falls, N. Y.

SPEIDEL, JOHN G., Reading, Pa. (See adv. index, end of book)

Stuebner, G. L., Long Island City, N. Y.

Treadwell M. H. Co., 90 West, New York

Works, Lebanon, Pa.

Whitehead & Kales Iron Works, Detroit, Mich.

WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Wilcox Mfg. Co., Aurora, Ill.

Yale & Towne Mfg. Co. (Crane-I-Beam & Plain Rail), 9 Murray, New York

Troughs (Hog)

Munnsville Plow Co. (Cast Iron), Munnsville, N. Y.

Troughs (Meat)

Sterling Wheelbarrow Co. ("Sterling" Sanitary), Milwaukee, Wis.

Troughs (Watering)

Casey-Hedges Co. (Cast Iron Horse), Chattanooga, Tenn.

Chicago Steel Tank Co., 194 Mather, Chicago, Ill.

Comstock, Geo. S. (Steel), Mechanicsburg, Pa.

Harry, O. K. Steel Wks., Wallas, Texas

Honhorst, Joseph Co., Cincinnati, O.

Kelly Mfg. Co., Waterloo, Ia.
 Lee Trough Co., Kansas City, Mo..
 National Steel Tank Co. (Galvanized Steel),
 Niles, Mich.
 Piedmont Soapstone Co. (Soapstone), 55 Congress,
 Boston, Mass.; Works: Asbestine,
 Va., & Cleveland, O.
 Walls, Owen & Stambach Co. (Soapstone),
 11th & Rldge av. Phila., Pa.
 Weaver Mfg. Co. (Steel), New Oxford, Pa.

Trowels

Arcade Mfg. Co. (Steel Garden, etc.), Free-
 port, Ill.
 Atkins, E. C. & Co. (Plastering, etc.), Home
 Offices & Factories: Indianapolis, Ind.
 Avery Stamping Co. ("Never-Break" Garden),
 Cleveland, O.
 Billings, Jas. E., Irvington, N. J.
 Billings, Spencer Co. (Drop Forged), Hartford,
 Conn.
 Browne & Dowd Mfg. Co. (Plastering), Meriden,
 Conn.
 Clark, W. J. Co. (Garden, Brick, Plastering,
 etc.), Salem, O.
 Connelly, P. F. (Adjustable Sledwalk), El
 Reno, Okla.
 Disston, Henry & Sons (Inc.) (Garden, Brick,
 Plastering, etc.), Tacony, Phila., Pa.
 Hardware & Woodenware Mfg. Co., 693 B'way,
 New York
 Humphrey, H. W. (Garden, etc.), Unionville,
 Conn.
 Jackson Shovel & Tool Co. ("Gem," Garden,
 etc.), Montpelier, Ind.
 Johnson, Wm. (Hedenberg Works), (Handy,
 Garden, Transplanting, Brick Plastering,
 Pointing, Corners, etc.), Newark, N. J.
 Kohler, F. E. & Co. (Garden, etc.), Canton, O.
 Landers, Frary & Clark (Garden), New
 Britain, Conn.
 Lothrop, H. H. & Co., Sharon, Mass.
 Marshalltown Trowel Co. (Plasterers' Brick,
 etc.), Marshalltown, Ia.
 Maynard, C. A. ("C. A. Maynard" Garden,
 Brick), Northampton, Mass.
 National Saw Co. ("Woodrough" & "McPar-
 lin," "Cincinnati" Brick & Plastering), 15
 River, Newark, N. J.
 New York Stamping Co. ("Garden Primrose"),
 N 11th & Berry, Brooklyn, N. Y.
NIAGARA HANDLE & FERRULE CO.
 321 N Holliday, Baltimore, Md. (See adv.
 index, end of book)
 Peck, Stow & Wilcox Co., Southington, Conn.
 Rose, Wm. & Bros., Sharon Hill, Pa.
 Ross, A. M. & Co., Ilion, N. Y.
 Sayre, L. A. Co., Newark, N. J.
 Smith, H. D. & Co. ("Perfect Tandle" Drop
 Forged), Plantsville, Conn.
 Stortz, Jno. & Son (Brick, Plastering, Point-
 ing, Putty, Paint, etc.), 210 Vine, Phila.,
 Pa.
 Union Furnace Mfg. Co., Union Furnace, Pa.
 Union Trowel Works ("Billings"), Irvington,
 N. J.
 Western Steel & Iron Works (Garden), De
 Pere, Wis.

Trowels (Butter)

AMERICAN TAP & DIE CO., Green-
 field, Mass. (See adv. index, end of book)
 Landers, Frary & Clark (Inc.) (Also Butter
 Spades etc.), New Britain, Conn.

Trowels (Molders')

(See Tools, Molders')

Truck Bands (Rubber)

BOSTON BELTING CO., 260 Devonshire,
 Boston, Mass., & 100 Reade, New York.
 (See adv. index & branch offices, end of book)
 Consolidated Rubber Co., Trenton, N. J.
 Continental Rubber Works, Erie, Pa.
DIAMOND RUBBER CO., Akron, O.
 (See adv. index, end of book)
 Empire Rubber Mfg. Co., Trenton, N. J.
 Goodrich, B. F. Co., Akron, O.
 Hamilton Rubber Mfg. Co., Trenton, N. J., &
 60 Reade, New York
 Home Rubber Co., Trenton, N. J.
 Manhattan Rubber Mfg. Co., 18 Vesey, New
 York
 Mechanical Rubber Co., 73 Reade, New York.
 Morgan & Wright (Inc.), Detroit, Mich.
 N. J. Car Spring & Rubber Co., Jersey City,
 N. J.
 New York Belting & Packing Co. (Ltd.), 91
 Chambers, New York
PENNSYLVANIA RUBBER CO.,
 Jeannette, Pa. (See adv. index & branch
 offices, end of book)

United & Glohc Rubber Mfg. Co., Trenton, N. J.
 Whitehead Bros. Rubber Co., Trenton, N. J.
 Wilkie Rubber Mfg. Co., Saugus, Mass.

*Truck Haulers (Electric)

MEAD-MORRISON MFG. CO. (Use on
 docks for hauling cargo from vessels),
 Cambridge (Boston), Mass. (See adv.
 index & branch offices, end of book)

Trucks (Aerial)

American-La France Fire Engine Co., 149
 B'way, New York, & Elmira, N. Y.
 Pneumatic Aerial Fire Appliance Co., New
 Bedford, Mass.
 Seagrave Co., Columbus, Ohio

Trucks (Armature)

Device Improvement Co. ("Peerless"), Han-
 Ridlon, Frank Co., Boston, Mass. over, Pa.
 Smith & Wallace, Woburn, Mass.

Trucks (Assembling)

Towsley, J. T. Mfg. Co., Cincinnati, O.

Trucks (Bag Holder)

New Winona Mfg. Co. ("Gilbert"), Winona,
 Minn.

Trucks (Bag & Barrel)

Adams Co. (Iron), Dubuque, Ia.
ATLAS CAR & MFG. CO., 1289
 Marquette rd., N E, Cleveland, O. (See
 adv. index, end of book)
 Barnard & Leas Mfg. Co., Moline, Ill.
 Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Bateman Mfg. Co., Grenloch, N. J.
 Belcher & Taylor Agricultural Tool Co., Chico-
 pee Falls, Mass.
 Boston & Lockport Block Co., 160 Commercial,
 Boston, Mass.
 Buch's, A. Sons Co., Elizabethtown, N. J.
 Buffalo Scales Co., Buffalo, N. Y.
 Case Mfg. Co., Columbus, Ohio
 Chase Foundry & Mfg. Co., Columbus, Ohio
 Chicago Scale Co., 292 Jackson houl, Chi-
 cago, Ill.
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Comstock, Geo. S. (Bag), Mechanicsburg, Pa.
 Enterprise Mfg. Co., 3d, cor. Dauphin, Phila.,
 Pa.
 Fairbanks Co., Lafayette, cor. Broome, New
 Farquhar, A. B. Co. (Ltd), York, Pa.
 Hanover Plow Handle Co., Hanover, Pa.
 Howe Scale Co., Rutland, Vt.
 Illinois Iron & Bolt Co. ("Hercules" All Steel)
 Carpentersville, Ill.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Knowles Scale Works (Ash Barrels Can), Low-
 ell, Mass.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Lehr Agricultural Co., Fremont, O.
 Lyon Metallic Mfg. Co., Aurora, Ill.
 McKinney Mfg. Co., Pittsburg, Pa.
 Messinger Mfg. Co., Tatamy, Pa.
 Nordyke & Marmon Co., Indianapolis, Ind.
 Nutting Truck Co. (2, 3, 4 & 6 Wheeled), Far-
 bault, Minn.

Ohio Ceramic Engineering Co., Cleveland, O.
 Phoenix Hardware Mfg. Co. (Barrel Only),
 Homer, N. Y.
 Potts & Morris ("Hercules," Self-Loading
 Barrel), Land Title bldg, Philadelphia, Pa.
 Riehle Bros. Testing Machine Co., Phila., Pa.
SPROUT, WALDRON & CO. (Bag),
 Muncy, Pa. (See adv. index, end of book)
 Standard Scale & Supply Co., 243 Water,
 Pittsburg, Pa.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Tatum, Samuel C. Co., Cincinnati, O.
 Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
 Whitehurst, E. W. Co., Norfolk, Va. of hook)
 Wrightsville Hardware Co. (Bag), Wrights-
 ville, Pa.
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Baggage)

Ames Plow Co., Boston, Mass.
 Boston & Lockport Block Co., 160 Commercial,
 Boston, Mass.
 Buda Foundry & Mfg. Co., Harvey, Ill., &
 Railway Exchange hldg, Chicago, Ill.
 Buffalo Scale Co., Buffalo, N. Y.
 Chicago Scale Co., 292 Jackson houl, Chicago,
 Chase Fdry. & Mfg. Co., Columbus, O. Ill.
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Fairbanks Co., Lafayette, cor. Broome, New
 Farquhar, A. B. Co., York, Pa.
 Howe Scale Co., Rutland, Vt.

Kalamazoo Railway Supply Co. (Also Railroad
 Warehouse), Kalamazoo, Mich.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Nutting Truck Co., Faribault, Minn.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Syracuse Chilled Plow Co., Syracuse, N. Y.
 Phillips, Doup & Co., 56 Pearl, Brooklyn, N. Y.
 Standard Scale & Supply Co., 243 Water,
 Pittsburg, Pa.
 Whitman Agricultural Co., 69 S B'way, St.
 Louis, Mo.
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Basket)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Fairbanks Co., 416 Broome, New York
 Kilbourne & Jacobs Mfg. Co., Columbus, Ohio
 Nutting Truck Co., Faribault, Minn.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Whitehurst, R. W. & Co., Norfolk, Va.
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Binder & Header)

Adriance, Platt & Co. (Binder), Poughkeepsie,
 N. Y.
 Burg Wagon Co. (Header), Burlington, Ia.
 Fish Bros. Mfg. Co. (Header), Clinton, Ia.
 Johnson Harvester Co. (Binder), Batavia, N. Y.
 Moline Wagon Co. (Header), Moline, Ill.
 Warder, Bushnell & Glessner Co. (Binder),
 Springfield, O.
 Winona Wagon Co. (Header), Winona, Minn.

Trucks (Book)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Bottlers')

Chase Foundry & Mfg. Co., Columbus, O.
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Ohio Ceramic Engineering Co., Cleveland, O.

Trucks (Box)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Boston & Lockport Block Co., 160 Commercial,
 Boston, Mass.
 Chase Foundry & Mfg. Co., Columbus, Ohio
 City Forge & Iron Works ("Gem" & Steel Tim-
 ber or Contractors' Dolly made of Steel &
 Cast Iron Roller Bearings with or without
 Rubber Tires), Dayton, O.
 Clark, Geo. P. Co., Windsor Locks, Conn.
 Fairbanks Co., 186 Lafayette, New York
 Farquhar, A. B. Co. (Ltd.), York, Pa.
 Howe Scale Co., Rutland, Vt.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
 Lansing Wheelbarrow Co., Lansing, Mich.
 Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.
 Nutting Truck Co., Faribault, Minn.
 Ohio Ceramic Engineering Co., Cleveland, O.
 Potts & Morris ("Hercules," Self-Loading),
 Land Title hldg, Philadelphia, Pa.
 Standard Scale & Supply Co., 243 Water,
 Pittsburg, Pa.
 Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Brick)

American Clay Machinery Co., Bucyrus, O.
 Arnold-Creager Co., New London, O.
ATLAS CAR & MFG. CO., The, 1289
 Marquette rd, N E, Cleveland, O. (See
 adv. index, end of book)
 Bancroft & Co., 5th & Chestnut, Phila., Pa.
 Boston & Lockport Block Co., Boston, Mass.
 Chase Foundry & Mfg. Co., Columbus, O.
 Davis-Price Foundry & Machine Co., New Cum-
 berland, W. Va.
 Fairbanks Co., 416 Broome, New York
 Fernholtz Brick Machinery Co., Boyle & Old
 Manchester avs, St. Louis, Mo.
 Gregg Company (Ltd.), Newburgh, N. Y.
 Horton Mfg. Co., Painesville, O.
 Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneap-
 olis, Minn. (See adv. index, end of book)
 Martin, Henry Brick Machine Mfg. Co., Lan-
 caster, Pa.
 Michigan Brick & Tile Machine Co., Morenci,
 Mich.
 Northern Engineering Works, Detroit, Mich.
 Potts, O. & A. & Co., Indianapolis, Ind.
 Raymond, C. W. Co., Dayton, O.

**When writing to firms listed
 in this book please mention
 HENDRICKS'
 COMMERCIAL REGISTER**

Scott's Patent Brick Car Co., Knoxville, Tenn.
Steele, J. C. & Son, Statesville, N. C.
Wellington Machine Co., Wellington, O.
Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.

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475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Trucks (Canning Factory)

Chase Foundry & Mfg. Co., Columbus, O.
Kilbourne & Jacobs Mfg. Co., Columbus, O.

Trucks (Car, Steam & Electric)

American Car Co. (Steam & Electric), St. Louis, Mo.
American Locomotive Co., 30 Church, New York
American Steel Foundries (Steam), Commercial Nat. Bank bldg, Chicago, Ill.
Baldwin Locomotive Works (Steam & Electric), 500 N Broad, Phila., Pa.
Baltimore Car-Wheel Co. ("Lord Baltimore"), Baltimore, Md.
Barney & Smith Car Co. (Steam & Electric), Dayton, O.
Bemis Car Truck Co., Springfield, Mass.
Bettendorf Axle Co. (All Steel), Davenport, Iowa
Bloomsberg Car Mfg. Co., Bloomsburg, Pa.
Brill, J. G. Co. ("Perfect," "Universal," "Ideal," "Eureka"), 62d & Woodland av, Phila., Pa.
Cambria Steel Co. (Tender & Engine), Arcade bldg, Phila., Pa.
Cincinnati Car Co., Cincinnati, O.
Commonwealth Steel Co. (Cast Steel, Four or Six-Wheel Truck Frame In One Piece), Commerce bldg., St. Louis, Mo.; Works, Granite City, Ill.
Couple Gear Freight Wheel Co. (Electric & Gasoline Only), Grand Rapids, Mich.
Curtis Motor Truck Co. ("Curtis" All Forged Elevated & Subway, etc.), Decatur, Ill.
Danville Car Co., Danville, Ill.
Hammond, J. & Co. (Car, Electric Railway), San Francisco, Cal.
KILGORE - PETELER CO. (Industrial), Minneapolis, Minn. (See adv. index, end of book)
Kindl Car Truck Co. (Steam Car Trucks Only), Merchants Loan & Trust bldg, Chicago, Ill.
Kuhman, G. C. Car Co., Cleveland, O.
Laconia Car Works Co. (Electric), 100 Boylston, Boston, Mass. Works: Laconia, N. H.
McGuire-Cummings Mfg. Co. ("Columbian," Electric, etc.), 112 N Sangamon, Chicago, Ill.
Pressed Steel Car Co. (Pressed Steel, Freight & Engine Tender, etc.), Pittsburgh, Pa.
RUSSEL WHEEL & FOUNDRY CO. (Industrial), Detroit, Mich. (See adv. index, end of book)
St. Louis Car Co., St. Louis, Mo.
Sheffield Car Co. (Electric Motor), Three Rivers, Mich.
Standard Motor Truck Co. (Solid Forged), New Castle, Pa.

Standard Car Truck Co. ("Barber" Roller-Bearing Passenger, Electric & Freight Car, Locomotive Tender, etc.), Old Colony bldg, Chicago, Ill.
Standard Steel Car Co. (Steel Frames & Steel Underframes for Wooden Cars), Frick bldg., Pittsburgh, Pa.
Stevenson, Jno. Co., Elizabeth, N. J.
Taylor Electric Track Co. ("Empire State"), Troy, N. Y.
Wason Mfg. Co., Springfield, Mass.
WESTINGHOUSE MACHINE CO., Westinghouse bldg, Pittsburgh, Pa. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT CO. (Industrial), Harvey, Ill. (See adv. index, end of book)

Trucks (Concrete)

Burness Concrete Truck Co. ("Burness" All Steel), Kansas City, Mo.

*Trucks (Concrete Mixer)

ELECTRIC WHEEL CO. Quincy, Ill. (See adv. index, end of book)

Trucks (Core Oven)

HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.
Sterling Wheelbarrow Co. ("Sterling"), Milwaukee, Wis.

Trucks (Creamery)

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.

Trucks (Dry Kiln)

American Blower Co., Detroit, Mich.
Archer Iron Works Co., 1st National Bank bldg, Chicago, Ill.
ATLAS CAR & MFG. CO., 1289 Marquette rd., N E, Cleveland, O. (See adv. index, end of book)
Bancroft & Co., 5th and Chestnut, Phila., Pa.
Chase Foundry & Mfg. Co., Columbus, O.
Fairbanks Co., 416 Broome, New York.
Glascock Stove & Mfg. Co., Greensboro, N. C.
Gregg Company (Ltd.), Newburgh, N. Y.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
Michigan Mfg. & Lumber Co. ("Michigan"), Holly, Mich.
North Coast Dry Kiln Co., Seattle, Wash.
Ohio Ceramic Engineering Co., Cleveland, O.
Pacific Iron & Steel Works (Roller Bearing Steel), Fremont, Seattle, Wash.
Peacock's Iron Works, Salem, Ala.
Union Iron Works Co., Salem, Ala.
Wickes Bros., Saginaw, Mich.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index, end of book)
Youngstown Car Mfg. Co., Youngstown, O.

Trucks (Dye House)

Clark, Geo. P., Co., Windsor Locks, Conn.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Zering, H., Mfg. Co., Cincinnati, O.

Trucks (Farm)

Bettendorf Wheel Co., Davenport, Iowa
ELECTRIC WHEEL CO., (Traction), Quincy, Ill. (See adv. index, end of book)
Havana Metal Wheel Co., Havana, Ill.
King & Hamilton Co., Ottawa, Ill.
LITTLE, J. R. METAL WHEEL CO., Quincy, Ill. (See adv. index, end of book)
Peru Plow & Wheel Co., Peru, Ill.

*Trucks (Floor)

ATLAS CAR & MFG. CO., The, 1289 Marquette, N E, Cleveland, O. (See adv. index, end of book)

Trucks (Foundry)

ATLAS CAR & MFG. CO., 1289 Marquette rd., N E, Cleveland, O. (See adv. index, end of book)
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Boston & Lockport Block Co., Boston, Mass.
Buda Foundry & Mfg. Co., Harvey, Ill. & Railway Exchange bldg., Chicago, Ill.
Byram & Co., 439 Guion, Detroit, Mich.
Chase Foundry & Mfg. Co., Columbus, Ohio.
Gregg Company (Ltd.), Newburgh, N. Y.
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)
Jones & Laughlin Steel Co., Pittsburgh, Pa.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
Lansing Wheelbarrow Co., Lansing, Mich.
Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.
NORTHERN ENGINEERING WORKS, 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)
Ohio Ceramic Engineering Co., Cleveland, O.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
Sheffield Car Co., Three Rivers, Wis.
SMITH, J. D. FOUNDRY SUPPLY CO., Cleveland, O. (See adv. index, end of book)
Standard Scale & Supply Co., 243 Water, Pittsburgh, Pa.
Sterling Wheelbarrow Co. ("Sterling" Foundry & Pig Iron), Milwaukee, Wis.
Whitehurst, R. W & Co., Norfolk, Va.
WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (See adv. index & branch offices, end of book)

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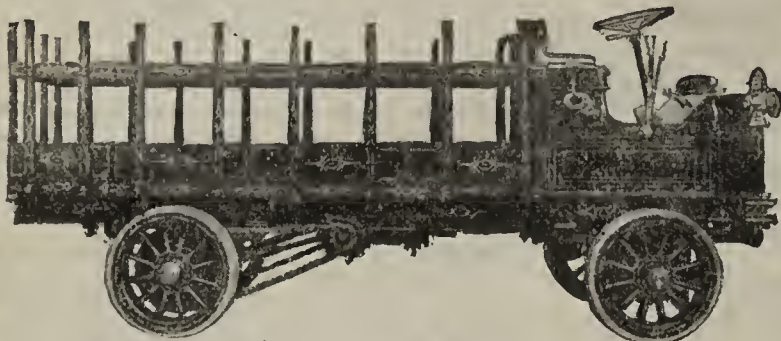
475 Fulton bldg, New York. (See adv. index & branch offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.

Trucks (Freight)

(See Wagons, Freight, Teaming, etc.)

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WORKS

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Trucks (Gasoline Engine)

ELECTRIC WHEEL CO. ("Electric").
Quincy, Ill. (See adv. index, end of book)
Farmers' Handy Wagon Co., Saginaw, Mich.

*Trucks (Gasoline Motor)

ABENDROTH & ROOT MFG. CO.
(For Commercial Use up to 5 tons), New-
burgh, N. Y. (See adv. index & branch
offices, end of book)

Trucks (Hook & Ladder)

Americau-La France Fire Engine Co. (Exten-
sion, etc.), 149 B'way, New York, & El-
mhurst, N. Y.
Perkins, C. N. Co., Lawrence, Mass.
Portland Ladder Co., 132 Orange, N. J.
Reading Fire Apparatus Works, Reading, Pa.
Seagrave Co., Columbus, O.
Stewart, A. F. & S. C., Rochester, N. Y.

Trucks (Ingot)

(See also Trucks, Rolling Mill)

Gregg Company (Ltd.), Newburgh, N. Y.
Jones & Laughlin Steel Co., Pittsburg, Pa.
NORTHERN ENGINEERING WORKS.
Chene, Detroit, Mich. (See adv. index
& branch offices, end of book)
Weimer Machine Works Co., Lebanon, Pa.
WHITING FOUNDRY EQUIPMENT
Co., Harvey, Ill. (See adv. index & branch
offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.

Trucks (Logging & Lumber)

American Sawmill Machinery Co. (Lumber),
50 Church, New York. Works, Hacketts-
town, N. J.
Archer Iron Works Co., 1st National Bank
bldg, Chicago, Ill.
Atkins, E. C. & Co., Indianapolis, Ind.
ATLAS CAR & MFG. CO., 1289
Marquette rd. N. E., Cleveland, O. (See
adv. index, end of book)
Bain Wagon Co., Kenosha, Wis.
Bancroft & Co., 5th & Chestnut, Phila., Pa.
Benson, A. W. Mfg. Co. ("Benson" Three-
Wheel, Rail-less Trains), Minneapolis, Minn.
Boston & Lockport Block Co., Boston, Mass.
Buffalo Forge Co., 490 B'way, Buffalo, N. Y.
Chase Foundry & Mfg. Co., Columbus, O.
City Forge & Iron Works, Dayton, Ohio
Clark, Geo. P. Co., Windsor Locks, Conn.
Diamond Iron Works, Minneapolis, Minn.
ELECTRIC WHEEL CO. ("Electric").
Quincy, Ill. (See adv. index, end of book)
Fairbanks Co., 46 Broome, New York
Farmers Handy Wagon Co., Saginaw, Mich.
Fish Bros. Wagon Co., Racine, Wis.
Glascok Stove & Mfg. Co., Greensboro, N. C.
Gillette Roller Bearing Co. (Ball Bearing),
Grand Rapids, Mich.
Gregg Company (Ltd.), Newburgh, N. Y.
Huntsville Foundry & Machine Works (Nolan &
Jones, Props.), Huntsville, Ala.
International Harvester Co. of America, Chi-
cago, Ill.
Kanawha Mine Car Co., Charleston, W. Va.
Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneapolis,
Minn. (See adv. index, end of book)
Knight Mfg. Co., Canton, Pa.

KOPPEL, ARTHUR CO., Machesney
Bldg., Pittsburg, Pa. (See adv. index &
branch offices, end of book)

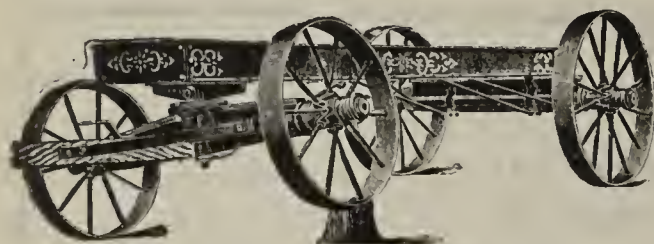
Kramer Wagon Co., Oil City, Pa.
Lane Mfg. Co., Montpelier, Vt.
Luedinghaus-Espenschied Wagon Co., 1713 N.
B'way, St. Louis, Mo.
Lyon Iron Works, Greene, N. Y.
Michigan Mfg. & Lumber Co. (Roller Bearing
Yard Truck), Holly, Mich.
Mount Vernon Car Mfg. Co., Mount Vernon, Ill.
National Dry Kiln Co. (Steel Rolling Bearing
Stave Bolt, Heading & Stave Trucks), In-
dianapolis, Ind.
North Alabama Engineering Co., New Decatur,
Ala.
North Coast Dry Kiln Co., Seattle, Wash.
Ohio Ceramic Engineering Co., Cleveland, O.
Peacock's Iron Works, Selma, Ala.
RUSSEL WHEEL & FOUNDRY CO.,
Detroit, Mich. (See adv. index, end of
book)
Seattle Car Mfg. Co., Seattle, Wash. (book)
Sheffield Car Co., Three Rivers, Mich.
Southern Engine & Boiler Works (Inc.), Jack-
son, Tenn.
Standard Saw Mill Machinery Co., Erie, Pa.
Strait, H. N. Mfg. Co., Kansas City, Mo.
Towsley, John T. Mfg. Co., Evanson of Gess,
Cincinnati, O.

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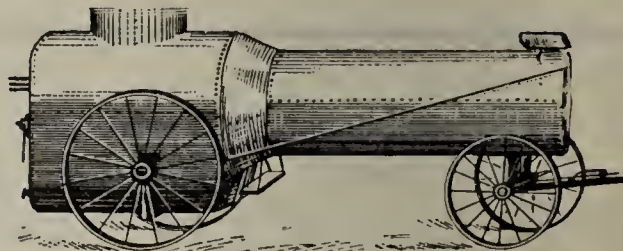
475 Fulton bldg, New York. (See adv. in-
dex & branch offices, end of book)
Zering, H. Mfg. Co. (Lumber), Cincinnati, O.

Trucks (Magnet)

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.



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DIAMOND STATE FIBRE CO. (Hard Fibre), Elsmere, Del. (See adv. index, end of book)

Trucks (Motor)

Chase Foundry & Mfg. Co., Columbus, O.
Chester Engineering & Machine Co. (Gasoline), Chester, Pa.

WESTINGHOUSE MACHINE CO., Westinghouse bldg., Pittsburg, Pa. (See adv. index, end of book)

Trucks (Nail Keg)

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.

Trucks (Packers')

BALTIMORE COOPERAGE CO., THE (For Butchers & Packers), cor Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
Kilbourne & Jacobs Mfg. Co. (Steel or Wood), Columbus, O.

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.
Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.

Sterling Wheelbarrow Co. ("Sterling" Sautary), Milwaukee, Wis.
Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Pipe)

Chase Foundry & Mfg. Co., Columbus, O.
Fairbanks Co., 186 Lafayette, New York
Kilbourne & Jacobs Mfg. Co., Columbus, O.

KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

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RAILROAD SPECIALISTS FOR ALL INDUSTRIES.

475 Fulton bldg., New York. (See adv. index & branch offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.

Trucks (Plate Glass)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Printers' Form)

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.

Trucks (Roll Paper)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
Clark, Geo. P. Co., Windsor Locks, Conn.
Fairbanks Co., 416 Broome, New York
Illinois Iron & Bolt Co. ("Hercules" All Steel), Carpentersville, Ill.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Northern Engineering Works, Detroit, Mich.
Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Rolling Mill)

(See also Trucks, Foundry)

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.

Chase Foundry & Mfg. Co., Columbus, O.
Fairbanks Co., 186 Lafayette, New York
Gregg Company (Ltd.), Newburgh, N. Y.
Hackensmith Wheel & Mine Car Co., Penn Station, Pa.

Jones & Laughlin Steel Co. (Ltd.), Pittsburg, Pa.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney bldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lansing Wheelbarrow Co., Lansing, Mich.
Morgan Construction Co., Worcester, Mass.
NORTHERN ENGINEERING WORKS., 9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Spicer Mfg. Co., New Philadelphia, O.
Weimer Machine Works Co., Lebanon, Pa.

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475 Fulton bldg., New York. (See adv. index & branch offices, end of book)

WHITING FOUNDRY EQUIPMENT

Co., Harvey, Ill. (See adv. index & branch offices, end of book)
Youngstown Car Mfg. Co., Youngstown, O.
Zering, H. Mfg. Co. (Bar iron, etc.), Cincinnati, O.

Trucks (Scenery)

Farmers' Handy Wagon Co., Saginaw, Mich.

Trucks (Slag)

Power & Mining Machinery Co. (Cast or Steel Plate Bow), Cudahy, Wis.
Traylor Engineering Co. (Crucible Steel), Allentown, Pa.

Youngstown Car Mfg. Co., Youngstown, O.

*Trucks (Slate Quarry)

FLORY, S. MFG. CO., Bangor, Pa., & 149 B'way, New York. (See adv. index, end of book)

Trucks (Steel Factory, Etc.)

Illinois Iron & Steel Co. ("Hercules" All Steel for Railroad, Mill, etc.), Carpentersville, Ill.

Ohio Galvanizing & Mfg. Co., Niles, O.
VAN DORN IRON WORKS CO., (Steel Drying & Bread Trucks), 2685 N 79th, Cleveland, O. (See adv. index, end of book)

*Trucks (Steel, Gasoline Engine)

ELECTRIC WHEEL CO. ("Electric"), Quincy, Ill. (See adv. index, end of book)

Trucks (Step Ladder)

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.

Trucks (Store, Warehouse & Factory)

Akron Cultivator Co., Akron, O.
Arcade Mfg. Co., Freeport, Ill.
Archer Mfg. Co., Freeport, Ill.

Archer Iron Works Co., 1st National Bank bldg., Chicago, Ill.
Armstrong Truck Co. (Ball Bearing), 411 Cherry, Phila., Pa.

ATLAS CAR & MFG. CO., 1289 Marquette rd., N E, Cleveland, O. (See adv. index, end of book)

BALTIMORE COOPERAGE CO., THE, cor Hanover & Creek, Baltimore, Md. (See adv. index, end of book)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
Belcher & Taylor Agl. Tool Co., Chicopee Falls, Mass.

Boston & Lockport Block Co., 160 Commercial, Boston, Mass.
Buffalo Scale Co., Scott, Miss., & Illinois, Buffalo, N. Y.

Chaffee Bros. Co., Oxford, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
City Forge & Iron Works, Dayton, Ohio

Chicago Scale Co., 292 W Jackson boul., Chicago, Ill.
Clark, Geo. P. Co., Windsor Locks, Conn.

Columbian Mail Crane Co. ("Columbian" Steel), 898 Factory, Columbus, O.
Day, J. H. & Co., Cincinnati, O.

Defiance Box Co., Defiance, Ohio
Dietz, Fred Co., 1102 Madison av., Indianapolis, Ind.

Fairbanks Co., Lafayette, cor. Broome, New York
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Fargnhar, A. B. Co. (Ltd.), York, Pa.
Glascok Stove & Mfg. Co., Greensboro, N. C.
Grammes, L. F. & Sons, Allentown, Pa.

Grand Rapids Hand Screw Co., Grand Rapids, Mich.
Hanover Plow Handle Co., Hanover, Pa.

Howe Scale Co., Rutland, Vt.; 341 B'way, New York
HUNT METAL CORNER CO., Westboro, Mass. (See adv. index, end of book)

Illinois Iron & Bolt Co. ("Hercules" All Steel), Carpentersville, Ill.
Johnson & Hibbard, Westfield, Mass.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
Kilbourne & Jacobs Mfg. Co., Columbus, O.
Lansing Wheelbarrow Co., Lansing, Mich.

Leatheroid Mfg. Co. (Leatheroid), Kennebunk, Me., & 108 Lincoln, Boston, Mass.
Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.
McKinney Mfg. Co., Allegheny, Pa.

Messinger Mfg. Co., Tatamy, Pa.

Michigan Mfg. & Lumber Co., Holly, Mich.
Murray, D. J. Mfg. Co., Wausau, Wis.
Nutting Truck Co., Faribault, Minn.

Ohio Ceramic Engineering Co. (Steel Frame), Cleveland, O.
Peck, C. A. Hardware & Mfg. Co. (Automobile), Berlin, Wis.

Potts & Morris ("Hercules" Self-Loading), Land Title bldg., Philadelphia, Pa.
Puffer-Hubbard Mfg. Co., Minneapolis, Minn.

Putnam & Co., 244 Water, New York
Schalkenbach & Budke, Jersey City, N. J.
Sheffield Car Co., Three Rivers, Mich.

Schrivver, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.
Sidney Steel Scraper Co., Sidney, O.

Spicer Mfg. Co., New Philadelphia, O.
Standard Scale & Supply Co., 243 Water, Pittsburg, Pa.

Syracuse Chilled Plow Co., Syracuse, N. Y.
Towsley, John T. Mfg. Co., Evans, n. of Gess, Cincinnati, O.

Tucker & Dorsey Mfg. Co., Indianapolis, Ind.
Westbrooks Elevator Co., Danville, Va.
Whitehurst, R. W. Co., Norfolk, Va.

Whitman Agricultural Co., 6900 S B'way, St. Louis, Mo.
Zering, H. Mfg. Co., 218 Charles, Cincinnati, Ohio

Trucks (Stove)

Arcade Mfg. Co. ("Baltzy" Steel, "Standard" Adjustable & "Perfect" Steel), Freeport, Ill.

Bancroft & Co., 5th & Chestnut, Phila., Pa.
Barnes Mfg. Co., Mansfield, Ohio

Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, Ohio
Clark, George P. Co., Windsor Locks, Conn.

Fairbanks Co., 416 Broome, New York
Hill, C. V. & Co., Trenton, N. J.
Howes, S. M. Co., 40 Union, Boston, Mass.

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Kramer Bros. Foundry Co., Dayton, Ohio.
Mersick, C. S. & Co., 286 State, New Haven, Conn.

Schrivver, O. P. & Co. ("I. X. L."), 208 Elm, Cincinnati, O.
Tucker & Dorsey Mfg. Co. ("Daisy"), Indianapolis, Ind.

Whitehurst, R. W. Co., Norfolk, Va.

Trucks (Tote Box)

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.

*Trucks (Tramway)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
WESTINGHOUSE MACHINE CO., Westinghouse bldg., Pittsburg, Pa. (See adv. index, end of book)

Trucks (Triangular)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
OSBORN MFG. CO., 5401 Hamilton av, N E, Cleveland, O. (See adv. index, end of book)

*Trucks (Triangular Steel)

HUNT METAL CORNER CO. (For Foundry Use), Westboro, Mass. (See adv. index, end of book)

Trucks (Varnish Kettle)

Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York; Works: Newburgh, N. Y.

Trucks (Wall Paper)

Kilbourne & Jacobs Mfg. Co., Columbus, O.
Zering, H. Mfg. Co., Cincinnati, O.

Trucks (Waste)

Lyon Metallic Mfg. Co. (Steel), Aurora, Ill.

Trucks (Wire Mill)

ATLAS CAR & MFG. CO., 1289 Marquette rd., Cleveland, O. (See adv. index, end of book)

Bancroft & Co., 5th & Chestnut, Phila., Pa.
Bates Machine Co., Joliet, Ill.

Boston & Lockport Block Co., Boston, Mass.
Chase Foundry & Mfg. Co., Columbus, O.
Cleveland Car Co., West Park, O.

Fairbanks Co., Lafayette cor Broome, New York
Morgan Construction Co., Worcester, Mass.
Ohio Ceramic Engineering Co., Cleveland, O.

Turner, Vaughn & Taylor Co., Cuyahoga Falls, Ohio
WRIGHT WIRE CO. (Iron Dry House), Worcester, Mass.
 Youngstown Car Mfg. Co., Youngstown, O.

Trunk Mfrs.

ALABAMA.

BIRMINGHAM—Gilbert Trunk Factory

CALIFORNIA.

LOS ANGELES—Cunningham, J. C.
 Herbert & Lindsey
 Whitney, F. J.
 Whitney, G. U.
 SAN DIEGO—Phillips, G. A.
 San Diego Trunk Co.
 SAN FRANCISCO—Hirschfelder & Meaney
 Malm, C. A. & Co., 1215 Sutter
 Pacific Trunk & Bag Co.

COLORADO.

DENVER—Meek Trunk & Bag Co.
 Schwayder Trunk Mfg. Co.
 PUEBLO—Pueblo Trunk Co.

DELAWARE.

WILMINGTON—American Vulcanized Fibre Co.
 Delaware Hard Fibre Co.

DISTRICT OF COLUMBIA.

WASHINGTON—Langlotz, G. G. & Co.

FLORIDA.

JACKSONVILLE—Florida Trunk Mfg. Co.

GEORGIA.

ATLANTA—Hightower Box & Tank Co.
 Pinnacle Trunk Mfg. Co.
 AUGUSTA—Augusta Trunk Factory
 Wilson-Rigsby Trunk Co.
 SAVANNAH—Chatham Trunk Factory
 Mayle, E.

ILLINOIS.

CHICAGO—American Trunk & Case Co., 155
 Becker, P. & Co., 254 Monroe 5th av
 Billburg & Co., 574 N Wells
 Fitzgerald Trunk Co. (Sample, Sole Leather), 407 N Wells
 Hartmann Trunk Co., 200 Jackson boul
 Haskell Bros. (Sample), Wabash av cor Washington
 Herron-Bentz Mfg. Co., 98 Market
 Kretschmar, A. & Co., 154 5th av
 Lynch Wall Trunk Co., 46 Jackson boul
 McNamara, J. H. Trunk Co., 298 W Madison
 Schulman Bros. Trunk Co., 298 W Madison
 Secor, M. M. Trunk Co., 208 Van Buren
 Stone Bros. & Co., 261 S Desplaines
 Taylor, C. A. Trunk Works, 130 W Madison
 Weick, Martin Mfg. Co., 1051 N 41st
 Wilt, Chas. T., 180 Wabash av
 DECATUR—Moore, J. R. & Co.
 QUINCY—Gem City Trunk Mfg. Co.

INDIANA.

EVANSVILLE—Evansville Trunk Co.
 KOKOMO—Kokomo Trunk Co.

IOWA.

DES MOINES—Des Moines Trunk Factory
 DUBUQUE—Enzler, Jos. A.
 SIOUX CITY—Antbony, D. S.

KANSAS.

ATCHINSON—Rose Trunk Co.
 TOPEKA—Hossfeld, Geo. V.

KENTUCKY.

LOUISVILLE—Botts, P. J. & Co.
 Duffey, Thos. & Co.
 Laub Bros.

LOUISIANA.

NEW ORLEANS—Mack Trunk Co., Ltd.
 New Orleans Trunk Co.

MAINE.

BANGOR—Parkhurst, J. F. & Son Co.
 KENNEBUNK—Leatheroid Mfg. Co. (Sample)

MARYLAND.

BALTIMORE—Dunn, C. J. & Co., 27 W Baltimore
 McGee, John, 108 N Howard
 Richards Trunk Co.
 Tuerke, Wm. A.
 Weishert Trunk Co.

MASSACHUSETTS.

BOSTON—Cummings', Josiab Son & Co. (Rawhide, Vulcanized Fibre), 657 Atlantic av
 Cutter & Cutter, 22 Chauncy
 New England Trunk Co., 125 Summer
 Winship, W. W., 71 Summer
 SALEM—Maude, Wm. H.
 SOMMERVILLE—Horton & Hubbard Mfg. Co.
 WESTFIELD—Crame Brothers (Linenoid)

MICHIGAN.

DETROIT—Maier, Martin & Co., 102 Woodward av
 Meier, Jacob F. Co., Milwaukee av & Grand Trunk Ry
 Standard Trunk Co., 143 Jefferson av
 Theisen, M. J. Co., 982 Scotten av
 Wedell & Boers, 123 Jefferson av
 GRAND RAPIDS—Groskopf Brothers
 SAGINAW—Lieberman Trunk Co.
 WYANDOTTE—Beals & Selkirk Trunk Co. (Leather)

MINNESOTA.

MINNEAPOLIS—Barnum Trunk Co.
 Flour City Trunk Co.
 Lorenz, Wm. Trunk Co.
 Northwestern Trunk Co.

MISSOURI.

JOPLIN—Sanders Trunk Mfg. & Merc. Co.
 KANSAS CITY—Excelsior Trunk Co.
 ST. JOSEPH—Herbold, A. E.
 Heumader, C. & Son
 ST. LOUIS—George, W. F. & Co.
 Hamburger, Leo.
 Horn, T. L. Trunk Co.
 Hossfeld Trunk Mfg. Co.
 Murphy, P. C. Trunk Co., 504 N 3rd
 Quirk, James A., 114 S 4th
 Rosenfeld, Morris
 St. Louis Basket & Box Co.
 Story, F. E.
 Stromberg, Kraus & Co., 620 Washington av
 Wallis & Zimmerly

NEW JERSEY.

HARRISON—Headley & Farmer Co. (Sole, Leather & Toy)
 NEWARK—Caille, P. Co. (Sole Leather)
 Goldsmith, L. & Son (Wardrobe)
 Peddie, T. B. & Co. Inc. (Sample, Sole Leather, Toy)
 Steiger Trunk & Bag Co.

NEW YORK.

BUFFALO—Bingham Trunk Co.
 Buffalo Trunk Mfg. Co., 127 Cherry
 NEW YORK—Ajax Trunk & Sample Case Co., 91 Mercer
 Beals & Selkirk Trunk Co., 558 B'way
 Berner & Freedman, 34 Howard
 Boyle, John & Co., 112 Duane
 Co-Operative Trunk & Bag Co., 1 Beaver
 Crouch & Fitzgerald, 177 B'way (Sample, Sole Leather)
 Drucker, N. & Co., 558 B'way
 Emergency Trunk & Bag Co., 25 E 14th
 Empire Trunk Mfg. Co., 824 B'way
 Fiberide Sample Trunk Co., 43 Mercer
 Globe Trunk Co., 66 W 125th
 Hahn & Amberg, 569 Broadway
 Innovation Trunk Co., 313 W 15th
 Leatheroid Mfg. Co., 532 Broadway
 Lercher, A., 101 Bowery
 Lissa, Hy. & Co., 595 B'way
 Manhattan Trunk Box Factory, 505 E 18th
 Manhattan Trunk Co., 206 Spring
 Manhattan Trunk & Leather Goods Co., 2271 3rd av
 New York Trunk Box Factory, 317 E 22nd
 New York Trunk & Bag Co., 268 Bowery
 Newark Trunk Co., 15 W 42nd
 Peddie, T. B. & Co., 368 Broadway
 Standard Trunk Mfg. Co., 599 B'way
 Taylor, C. A. Trunk Works, Inc., 131 W
 Union Trunk & Bag Co., 156 5th av 38th

Utility Trunk Co., 409 W 14th
 Wolff, Chas. W., 72 Cortlandt
 ROCHESTER—Likly, Henry & Co. (Wardrobe, Sample, etc.)
 SYRACUSE—Syracuse Trunk Works
 UTICA—Faber, H. C. & Son Co. (Combination)

OHIO.

CINCINNATI—American Trunk Co.
 Drucker, N. & Co. (Sample)
 McGuire, M. A. & Son
 Mendel & Co., 113 W Pearl
 CLEVELAND—Cleveland Trunk Co.
 Englehart Trunk Co.
 Feigenbaum Trunk Co.
 Likly & Rocket Trunk Co.
 COLUMBUS—Hughes, Jno. R. & Co., 40 N
 Stallman, F. A. (Dresser) High
 DEFIANCE—Fabric Leather Co.
 TOLEDO—Duguid, Jno. B., Prospect av & M
 Wilmington & Co. C B R

OREGON.

PORTLAND—Multnomah Trunk & Bag Co.
 Portland Trunk Mfg. Co. (Leather)

PENNSYLVANIA.

PHILADELPHIA—Belber Trunk & Bag Co., 1641 N Hancock
 Copeland, Thos. W. & Co., 3904 Market
 Deveney, J. B. & J., 411 Cherry
 Leatheroid Mfg. Co., 922 Arch
 Orenstein, Mayer, 1802 N 5th
 Rangrow & Hall, Inc., 59 Laurel
 Rhode Brothers, 1102 Passyunk av
 Seafried Bros., 2811 Girard av
 Seitz, J. H. & Sons, 414 Brown
 Simons & Co. (Carpet)
 PITTSBURG—Boyd, Boyd & Boyd Trunk Co.
 Haines, Geo. S. Co.

RHODE ISLAND.

PROVIDENCE—Providence Trunk Co.

TENNESSEE.

CHATTANOOGA—McKenney, G. E. Trunk Co.
 KNOXVILLE—Southern Trunk Co.
 Whittle Trunk & Bag Co.
 NASHVILLE—Hill Trunk Co.
 Nashville Trunk & Mfg. Co.
 White Trunk & Bag Co.

TEXAS.

AUSTIN—Austin Trunk Factory
 DALLAS—Pollack, Henry Trunk Co.
 Wilkins Trunk Mfg. Co.

UTAH.

SALT LAKE CITY—Gallacher, Jas. I.
 Hulbere Bros.

VIRGINIA.

PETERSBURG—Petersburg Trunk & Bag Co., Inc.
 Seward Trunk & Bag Co.
 Virginia Trunk & Bag Co.
 Watson, Bernard & Rogers
 RICHMOND—Richmond Trunk Mfg. Co., Inc.
 Rountree & Bro. Trunk & Bag Co.
 Union Trunk & Bag Co.

WASHINGTON.

EVERETT—Everett Trunk Mfg. Co.

WISCONSIN.

EAU CLAIRE—Eau Claire Trunk Co.
 MADISON—Curtis-Dexter Co.
 MILWAUKEE—Abel & Bach Co. (Sole Leather)
 Burroughs, Geo. & Sons
 Meincke, A. & Son (Toy)
 Romadka & Brothers Co.
 Schoen & Walter Co.
 OSHKOSH—Bauer Trunk & Bag Co.
 Oshkosh Trunk Co.
 RACINE—Racine Trunk Co.
 Secor, M. M. Trunk Co. (Sample, Toy, Sole Leather)

Trunk & Bag Trimmings

(See also Hardware Manufacturers, Trunk & Bag)

Jenkinson, R. C. & Co., Newark, N. J.
KEIM, JNO. R. MILLS (Inc.), Buffalo, N. Y. (See adv. index, end of book)

Kelton-Bruce Mfg. Co. (Leather Handles, Straps, Corners, Loops, etc.), Salem, Mass.
P. R. Mfg. Co., Detroit, Mich.

*"Trussit" Steel for Reinforcing Concrete

GENERAL FIREPROOFING CO.,
 Youngstown, O. (See adv. index & branch offices, end of book)

Tryers (Butter & Cheese)

Humason & Beckley Mfg. Co. (Cast Steel),
 New Britain, Conn.

Tryers (Ham)

American Cutlery Co., 193 Mather, Chicago, Ill.
Johnson, Wm. (Hedenberg Wks), Newark, N. J.
Osborne, C. S. & Co. ("C. S. O. & Co."), Har-
 rison, N. J.
Stortz, Jno. & Son, 210 Vine, Phila., Pa.

*Tube Mill Linings

ALLIS-CHALMERS CO., Milwaukee,
 Wis. (See adv. index & branch offices, end of book)

Tubes (Arch & Stay)

National Tube Co. ("Shelby" Seamless Steel),
 Pittsburg, Pa.

Tubes (Asbestos)

(See Tubing, Asbestos Braided)

*Tubes (Bonding)

PHOENIX SPECIALTY MFG. CO., 48
 Duane, New York. (See adv. index, end of book)

Tubes (Carrier)

National Tube Co. (Gravity Carriers), Pitts-
 burg, Pa.

Tubes (Collapsible)

Standard Specialty & Tube Co., New Brighton,
 Pa.

*Tubes (Fuse)

DELAWARE HARD FIBRE CO.
 (Hard Fibre for Enclosed Fuses), Wilming-
 ton, Del. Works, Marshalltown, Del.
 (See adv. index, end of book)

Tubes (Grain Drill)

Akron Machine Co., Akron, O.
Cincinnati Rubber Mfg. Co., Cincinnati, O.
Goodrich, B. F. Co. (Rubber), Akron, O.
Gutta Percha & Rubber Mfg. Co., 126 Duane,
 New York
Morgan Spring Co. (Wire), Worcester, Mass.
New York Belting & Packing Co. (Ltd.), 91
 Chambers, New York

Tubes (Inner Automobile)

Continental Rubber Works, Erie, Pa.
Goodrich, B. F. Co., Akron, O.
PENNSYLVANIA RUBBER CO.,
 Jeannette, Pa. (See adv. index & branch
 offices, end of book)
P. & H. Tire Co., 1659 B'way, New York

Tubes (Inner Bicycle)

Continental Rubber Works, Erie, Pa.
PENNSYLVANIA RUBBER CO.,
 Jeannette, Pa. (See adv. index & branch
 offices, end of book)

Tubes (Insulating)

(See Insulators; also Conduits)

Tubes (Mailing, Etc.)

American Paper Tube Co., Woonsocket, R. I.
Brown, Jas. Jr. (Paper & Worsted Tubes &
 Cones), Main st., Manayunk, Pa.
Chicago Paper Tube & Can Co. (Paper for Mail-
 ing, Electrical Purposes, etc.), 20 N May,
 Chicago, Ill.
Detroit Paper Tube & Can Co. (Mailing, Tin
 End Cans, etc.), Detroit, Mich.

SOLTMANN, E. G.

(For Mailing, Drawing Prints, etc.; also
 everything for the Architect, Engineer &
 Draughting Room), 125 E 42d, New York.
 (See adv. index, end of book)
Thompson & Norris Co., Prince & Concord,
 Brooklyn, N. Y.
Union Paper Co. (Also Cans, Boxes, etc.), 844
 Washington, New York
United States Mailing Tube Co., 844 Washing-
 ton, New York
Ware, R. F., 108 Park row, New York
Wilson, Wyle T., 1151 N 3d, Phila., Pa.

*Tubes (Map)

WILSON, F. CORTEZ & CO., 239
 Lake, Chicago, Ill. (See adv. index, end of
 book)

Tubes (Oil, Portable)

Ellison, Lewis M., 6238 Princeton av, Chicago,
 Ill.

Tubes (Porcelain)

Brunt, G. F. Porcelain Works (Glazed or Un-
 glazed), East Liverpool, O.
Diamond Porcelain Co., Trenton, N. J.
Pass & Seymour, Solvay, N. Y.

Tubes (Weldless Steel)

Justice, Phillip & Co., 621 Chestnut, Phila.,
 Pa.

Tubes (Wiring)

(See Insulators; also Conduits)

Tubing (Aluminum)

Aluminum Co. of America (Seamless), Pitts-
 burg, Pa.
Ivins, Elwood Tube Works (Seamless), Oak
 Lane, Philadelphia, Pa., & 487 B'way,
 New York
Summerville Tubing Co. (Seamless, Cold Drawn)
 114 S 2nd, Phila., Pa.

Tubing (Asbestos Braided)

Asbestos Fibre Spinning Co., North Wales, Pa.
Johns, H. W.-Manville Co., 100 William, New
 York
Keasby & Mattison Co., Ambler, Pa.
Oil City Asbestos Co., Oil City, Pa.
WATSON, H. F. CO., Erie, Pa. (See adv.
 index & branch offices, end of book)

Tubing (Bedstead)

Elyria Iron & Steel Co. (High Carbon Steel),
 Elyria, O.
National Tube Co. (Iron, "Shelby" Seamless
 Steel, Round, Square, Rectangular, etc.),
 Pittsburg, Pa.
New Jersey Tube Co., Harrison, N. J.
Ohio Seamless Tube Co. (Seamless Steel),
 Shelby, O.
Phenix Tube Co. (Inc.) (Brass & Bronze Iron
 Lined), 182 N 11th, Brooklyn, N. Y.
Standard Welding Co. (Seamless Steel), Cen-
 tral av & 70th, Cleveland, O.

Tubing (Bicycle)

American Tube & Stamping Co., Bridgeport,
 Conn.
FRASSE, PETER A. & CO., 130
 Worth, New York. (See adv. index &
 branch offices, end of book)
Leng's, Jno. S. Son & Co. (Jobbers & Import-
 ers), 33 Murray, New York
National Tube Co. ("Shelby" Seamless Steel),
 Pittsburg, Pa.
Standard Steel Tube Co. (Braze, etc.), To-
 ledo, O.

Tubing (Brass Lined)

American Tube & Stamping Co. (Clincher),
 Bridgeport, Conn.

Tubing (Brass & Copper)

American Tube Works, 95 Broad, Boston, Mass.
Ansonia Brass & Copper Co., Ansonia, Conn.
Benedict & Burnham Mfg. Co., Waterbury,
 Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bridgeport Metal Goods Mfg. Co. (Pressed
 Drawn), Bridgeport, Conn.
Bristol Brass Co. (Brass Braze Only), Bristol,
 Conn.
Chicago Brass Co. (Braze Brass), Kenosha,
 Coe Brass Mfg. Co., Torrington, Conn. Wis.
Cornalius, Gustav (Small), Waterbury, Conn.
CORNELL & UNDERHILL, (Jobbers),
 47 Beach, New York. (See adv. index,
 end of book)
Croton Mfg. Co. (Brass), Croton on Hudson,
 N. Y.
Detroit Copper & Brass Rolling Mills, Detroit,
 Mich.
French Mfg. Co. (Seamless, Small Sizes Only),
 Waterbury, Conn.
**HUNGERFORD, U. T. BRASS & COP-
 per Co.** (Seamless), 497 Pearl, New York
Ivins, Elwood Tube Works (Seamless), Oak
 Lane Station, Phila., Pa., & 487 B'way,
 New York
McMANN & TAYLOR (Jobbers), 104
 John, New York. (See adv. index, end of
 book)
Manhattan Brass Co., 338 E 28th, New York
**MERCHANT & EVANS CO. (Inc.) (Job-
 bers),** 517 Arch, Philadelphia, Pa. (See
 adv. index & branch offices, end of book)
New Jersey Tube Co. (Bent Brass, etc.), Har-
 rison, N. J.
Randolph-Clowes Co., Waterbury, Conn.
Rome Brass & Copper Co. (Seamless or
 Braze, also Bronze), Rome, N. Y.
Scovill Mfg. Co. (Brass Only), Waterbury,
 Seymour Mfg. Co., Seymour, Conn.
Summerville Tubing Co. (Seamless Cold Drawn),
 114 S 2nd, Phila., Pa.

UNITED WIRE AND SUPPLY COMPANY,

109-119 Summer Street, PROVIDENCE, R. I.

Manufacturers of

Seamless and Braze Brass and Copper Tubing,

TAPERED TUBING. GOLD AND SILVER WIRE AND TUBING. GOLD AND
 SILVER PLATED SEAMLESS WIRE AND TUBING. GOLD AND SILVER
 ANODES FOR ELECTRO-PLATING. GOLD AND SILVER SOLDERS IN
 WIRE AND SHEET.

Correspondence Solicited.

UNITED WIRE & SUPPLY CO.
(Seamless, also Brazed Brass & Copper
Tubing), 109 Summer, Providence, R. I.
(See adv. index, end of book)
Waterbury Brass Co., Waterbury, Conn.
Waterbury Mfg. Co. (Brass Brazed Only), Wa-
terbury, Conn.
Wells, A. H. & Co., Waterbury, Conn.

Tubing (Brazed Steel)

Standard Steel Tube Co., Toledo, O.

Tubing (Bronze)

Ansonia Brass & Copper Co., Ansonia, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Detroit Copper & Brass Rolling Mills, De-
troit, Mich.
French Mfg. Co. (Seamless, Small Sizes Only),
Waterbury, Conn.
Manhattan Brass Co., 334 E 28th, New York
MERCHANT & EVANS CO. (Inc.)
(Brazed), 517 Arch, Phila., Pa. (See adv.
index and branch offices, end of book)
Randolph-Cloves Co., Waterbury, Conn.
Rome Tube Co., Rome, N. Y.
Summerill Tubing Co. (Seamless, Cold Drawn),
114 S 2nd, Phila., Pa.

Tubing (Celluloid)

(See Celluloid, Fibreloid & Pyrolin Manu-
facturers)

Tubing (Cold Drawn Seamless Steel)

Detroit Seamless Steel Tubes Co., Detroit,
Mich.

FRASSE, PETER A. & CO., 130
Worth, New York. (See adv. index &
branch offices, end of book)

National Tube Co. ("Shelby"), Pittsburg, Pa.
Ohio Seamless Tube Co., Shelby, O.
Seamless Tube Co. of Amer. (1½ to 6 in.),
Pittsburg, Pa.

Tubing (Condenser)

Benedict & Burnham Mfg. Co. ("Benedict"
Nickel, Brass & Copper), Waterbury, Conn.
HUNGERFORD, U. T. BRASS & COP-
per Co. (Brass, Plain & Tinned), 497 Pearl,
New York

Tubing (Conduit)

(See Conduits)

Tubing (Cotton)

Blakesley Novelty Co. (Cotton Knit), Bristol
Conn.
Buffalo Weaving & Belting Co. (For Carrying
Electric Wires Under Heat), Buffalo, N. Y.
Empire Mfg. Co., Lockport, Conn.
Niedner, Chas. H. (Electric), Malden, Mass.

Tubing (Flexible Fabric)

American Tubing & Webbing Co., Providence,
R. I.
Atlantic Tubing Co. (Gas Pipe Tubing), Provi-
dence, R. I.
Boston Woven Hose & Rubber Co., Cambridge,
Mass.
New York Belting & Packing Co., 91 Cham-
bers, New York
New York Gas Tubing Co., 97 Bank, New York
Voorhees Rubber Mfg. Co., Jersey City, N. J.

Tubing (Flexible Metallic)

Almond, T. R. Mfg. Co. ("Almond," for Elec-
tric Light Braekets, Portables, etc.), Ash-
burnham, Mass.
American Metal Hose Co., 173 Lafayette, New
York

Automobile Supply Mfg. Co. (Brass & Copper,
Light Pressure for Auto Horns, etc.), 139
Emerson pl., Brooklyn, N. Y.
Flower, Walter L. Steam Specialty Co., St.
Louis, Mo.
Kaufman, A. G. Mfg. Co., 133 Reade, New
York
Manhattan Screw & Stamping W'ks, West End
av & 67th, New York
Metallic Flexible Tubing Co. (Interwoven), 254
S 2d, Phila., Pa.
Penna Flexible Metallic Tubing Co. (Copper or
Steel High Pressure, etc.), 1305 Arch,
Phila., Pa.
Sprague Electric Co., 547 W 34th, New York
Tripari Bros. (For Automobile Horns), 372
Broome, New York
U. S. Flexible Metallic Tubing Co., Los An-
geles, Cal.

Tubing (German Silver)

Ansonia Brass & Copper Co., Ansonia, Conn.,
& 99 John, New York
Bamford & Smith, Providence, R. I.
Benedict & Burnham Mfg. Co., Waterbury,
Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Bristol Brass Co., Bristol, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
French Mfg. Co. (Seamless, Small Sizes Only),
Waterbury, Conn.
Seovill Mfg. Co., Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Summerill Tubing Co. (Seamless, Cold Drawn),
114 S 2nd, Phila., Pa.
UNITED WIRE & SUPPLY CO. (Seam-
less), 109 Summer, Providence, R. I. (See
adv. index, end of book)
Waterbury Brass Co., Waterbury, Conn.

Tubing (Glass)

Bache, Semon & Co., West & Hubert, New
York
Corning Glass Works (Electrical, Clinical, Ther-
mometer, etc.), Corning, N. Y.
Durand, Victor, Jr., Vineland, N. J.
Fostoria Glass Specialty Co., Fostoria, O.
Libbey Glass Co., Toledo, O.
Lippincott Glass Co., Alexandria, Ind.
MISSISSIPPI GLASS CO., 115 B'way,
New York. (See adv. index & branch of-
fices, end of book)
Pairpoint Corp'n (For Electrical Use), New
Bedford, Mass.
Penn Glass Tube Co., Bradford, Pa.
Vineland Glass Tube Co., Vineland, N. J.
Wagner Glass Works, 965 E 132d, New York

*Tubing (Gold)

UNITED WIRE & SUPPLY CO., 109 Sum-
mer, Providence, R. I. (See adv. index,
end of book)

*Tubing (Gold & Silver Plated)

UNITED WIRE & SUPPLY CO. (Seam-
less), 109 Summer, Providence, R. I. (See
adv. index, end of book)

Tubing (Hard Fibre)

AMERICAN VULCANIZED FIBRE
Co. (Vulcanized), Wilmington, Del. (See
adv. index, end of book)
DELAWARE HARD FIBRE CO.,
Wilmington, Del. Works, Marshalltown,
Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO., Els-
mere, Del. (See adv. index, end of book)
Empire Mfg. Co., Wilmington, Del.
Laminar Fibre Co., North Cambridge, Mass.
Millville Crystal Glass Co., Wilmington, Del.
MORRIS ELECTRIC CO. (Vulcan-
ized), Wilmington, Del. (See adv. index, end
of book)
Spaulding, J. & Sons Co., North Rochester, N.H.

Tubing (Hard Rubber)

American Hard Rubber Co., 111 Mercer, New
York
Continental Rubber Works, Erie, Pa.
DIAMOND RUBBER CO., Akron, O.
(See adv. index & branch offices, end of book)
Morgan & Wright, Inc., Detroit, Mich.
Morris Electric Co., Wilmington, Del.
Vulcanized Rubber Co., 488 B'way, New York
Wilkie Rubber Mfg. Co., Saugus, Mass.
WILMINGTON FIBRE SPECIALTY
Co. (Vulcanized), Wilmington, Del. (See
adv. index, end of book)

Tubing (Iron Lined)

Ansonia Brass & Copper Co., Ansonia, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Manhattan Brass Co., 334 E 28th, New York
Phoenix Tube Co. (Inc.) (Brazed, Lock Joint,
Close Joint & Bent, Brass & Bronze), 182
N 11th, Brooklyn, N. Y.

Tubing (Nickel, Brass & Copper)

Benedict & Burnham Mfg. Co., Waterbury,
Conn.

*Tubing (Nickel Silver)

UNITED WIRE & SUPPLY CO. (Seam-
less), 109 Summer, Providence, R. I. (See
adv. index, end of book)

Tubing (Organ)

Chadwick-Boston Lead Co. (Composition), Bos-
ton, Mass.

Tubing (Paper)

(See Tubes, Mailing, Etc.)

Tubing (Platinum)

AMERICAN PLATINUM WORKS,
Chestnut st & N. J. R. R. av, Newark, N.
J. (See adv. index, end of book)
Baker & Co., Newark, N. J.
CROSELMIRE & ACKOR CO., 42
Walnut, Newark, N. J. (See adv. index,
end of book)
Ivins, Elwood Tube Works, Oak Lane, Phila.,
Pa., & 487 B'way, New York

Tubing (Porcelain)

Pittsburg High Voltage Insulator Co., Derry,
Pa.

Tubing (Rubber)

B. & R. Rubber Co., North Brookfield, Mass.
BOSTON BELTING CO., 260 Devonshire,
Boston, Mass., & 100 Reade, N. Y. (See
adv. index & branch offices, end of book)
Boston Woven Hose & Rubber Co., Executive
Office & Factory, Cambridgeport, Mass.
Canfield, H. O. Co., Bridgeport, Conn.
Consolidated Rubber Co., Trenton, N. J., &
Broad st Bk bldg, New York
Continental Rubber Works, Erie, Pa.
Crescent Belting & Packing Co. (Corrugated &
Plain), Trenton, N. J.
Davol Rubber Co., 69 Point, Providence, R. I.
DIAMOND RUBBER CO., Akron, Ohio
(See adv. index, end of book)
Empire Rubber Mfg. Co., Trenton, N. J.
Faultless Rubber Co., Ashland, O.
Federal Rubber Co., Cudahy, Wis.
Goodrich, R. F. Co., Akron, O.
Hamilton Rubber Mfg. Co., Trenton, N. J.
Hartford Rubber Works Co., Hartford, Conn.
Home Rubber Co., Trenton, N. J.
International Rubber Co., Milltown, N. J.
Manhattan Rubber Mfg. Co., 18 Vesey, New
York, & Passaic, N. J.
Mechanical Rubber Co., 73 Reade, New York
Miller Rubber Mfg. Co., Akron, O.
Morgan & Wright (Inc.) (Hard Rubber), De-
troit, Mich.

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Republic Rubber Co., Youngstown, O.
Rubber Products Co., Barberton, O.
Seamless Rubber Mfg. Co., New Haven, Conn.
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Thermoid Rubber Co., Trenton, N. J.
Tyer Rubber Co., Andover, Mass.
United & Globe Rubber Mfg. Co., Trenton, N. J.
Voorhees Rubber Mfg. Co., Jersey City, N. J.
Whitehead Bros. Rubber Co., Trenton, N. J.

Tubing (Rubber, Cloth Insertion)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass. (See adv. index & branch offices, end of book)
Goodrich, B. F. Co., Akron, O.

*Tubing (Seamless Specialties)

KEIM, JNO. R. MILLS (Inc.), Buffalo, N. Y. (See adv. index, end of book)

Tubing (Seamless Steel)

Delaware Seamless Tube Co., Auburn, Pa.
Detroit Seamless Steel Tubes Co. (Cold Drawn), Detroit, Mich.
FRASSE, PETER A. & CO., 130 Worth, New York. (See adv. index & branch offices, end of book)
Ivins, Elwood Tube Works (Tool & Low Carbon Steel), Oak Lane, Phila., Pa., & 487 B'way, New York
Justice, Philip S. & Co. (Weldless Imported), 421 Chestnut, Phila., Pa.
Leng's, Jno. S. Sons & Co. (Importers Cold Drawn), 33 Murray, New York
National Tube Co. ("Shelby" Rounds, Squares, Octagonal, Oval, Hexagonal, D & Special Shapes & Sizes, Made Hard, Medium or Soft), Pittsburg, Pa.
Ohio Seamless Tube Co., Shelby, Ohio.
Pittsburg Seamless Tube Co., Beaver Falls, Pa.
Seamless Tube Co. of Amer. (1½ to 6 in.), Pittsburg, Pa.
Standard Welding Co. (Electrically Welded), Central av & E 70th, Cleveland, O.
Summerill Tubing Co. (Cold Drawn, Round & Square), 114 S 2nd, Phila., Pa.

Tubing (Silver)

Ivins, Elwood Tube Works (Seamless), Oak Lane, Phila., Pa., & 487 B'way, New York

UNITED WIRE & SUPPLY CO. (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)

Tubing (Square)

National Tube Co. ("Shelby" Seamless Steel), Pittsburg, Pa.

*Tubing (Square, Seamless Steel)

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Tubing (Steel)

(See also Tubing, Seamless Steel; also Pipe & Tube Mills)

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Delaware Seamless Tube Co. (Seamless), Auburn, Pa.

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New Jersey Tube Co., Harrison, N. J.
Ohio Seamless Tube Co. (Seamless), Shelby, O.
Pittsburg Seamless Tube Co., Beaver Falls, Pa.
Standard Steel Tube Co. (Brazed for Automobile, Bicycle, Baby Carriage, etc.), Toledo, O.
Standard Welding Co., Cleveland, O.

Tubing (Structural)

Danville Structural Tubing Co., Danville, Pa.
Elyria Iron & Steel Co. (High Carbon Steel, Butted & Brazed), Elyria, O.

*Tubing (Tapered Seamless)

UNITED WIRE & SUPPLY CO. (Gold, Silver, Brass & Copper), 109 Summer, Providence, R. I. (See adv. index, end of book)

*Tubing (Wood Pipe, "Wyckoff")

WYCKOFF, A. & SON CO., Elmira, N. Y. (See adv. index, end of book)

Tubing (Zinc)

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HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York

Manhattan Brass Co., 338 E 28th, New York

MERCHANT & EVANS CO. (Inc.) (Brazed), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

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Waterbury Brass Co., Waterbury, Conn.

*Tubing & Nipples (Gas Lamp)

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Frankford Machine Works, Frankford, Phila., Pa.

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Pollock, Alex. Co., 203 West, New York

Sharon Boiler Works, Sharon, Pa.

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Turbines (Air)

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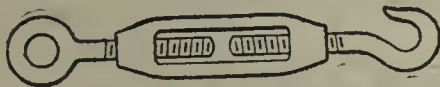
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North Penn Iron Co. ("Penn"), 3d & Venango, Phila., Pa.

Philadelphia Turntable Co., Real Estate bldg, Phila., Pa.

Pitless Turntable Co., Kansas City, Mo.

Smith, G. W. & F. Iron Co., Boston, Mass.

Smith, H. Machine Co., 51 Goodwin, Paterson, N. J.

Thomas Mfg. Co., Franklin, Pa.

Weber Cycle & Supply Co. ("Weber"), Colorado Springs, Col.

Turntables for Industrial Railways

(See also Turn Tables, Standard Gauge)

(Also Tables, Transfer)

ATLAS CAR & MFG. CO., THE, 1289

Marquette rd., N E, Cleveland, O. (See adv. index, end of book)

Bonnot Company, Canton O.

Byram & Co. (Inc.), Detroit, Mich.

Calumet Engineering Works, Harvey, Ill.

CANTON FOUNDRY & MACHINE CO.,

Canton, O. (See adv. index, end of book)

CAREY, GEO. H., 1 B'way, New

York. (See adv. index, end of book)

CARLIN'S, THOMAS SONS CO., 1610

River av, North Side, Pittsburg, Pa. (See adv. index, end of book)

Chambers Bros. Co. (For Brick Yards, etc.), 52d bel Lancaster av, Phila., Pa.

Chase Foundry & Mfg. Co., Columbus, O.

Cleveland Car Co., West Park, O.

Gregg Company (Ltd.), Newburgh, N. Y.

HILL & GRIFFITH CO., Cincinnati,

O. (See adv. index, end of book)

Howe Scale Co. of Illinois, 1315 Wabash av, Chicago, Ill.

Hunt, C. W. Co., West New Brighton, S. I., N. Y.

Interstate Engineering Co. (Hand & Electric), Bedford, Ohio

KOPPEL, ARTHUR CO., Machesney

bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)

KILGORE-PETELER CO., Minneap-

olis, Minn. (See adv. index, end of book)

Link Belt Co. (Ball Bearing), W 39th & Stewart av, Chicago, Ill., & 299 B'way, New York

Lobdell Car Wheel Co., Wilmington, Del.

MARYLAND EQUIPMENT & SUPPLY

Co. (New & Second Hand), Calvert & Fayette, Baltimore, Md. (See adv. index, end of book)

MINNEAPOLIS STEEL & MACHIN-

ery Co., Minneapolis, Minn. (See adv. index & branch offices, end of book)

NORTHERN ENGINEERING WORKS,

9 Chene, Detroit, Mich. (See adv. index & branch offices, end of book)

Ohio Ceramic Engineering Co., Cleveland, O.

Power & Mining Machinery Co. (For Mines, etc.), Cudahy, Wis.

RUSSEL WHEEL & FOUNDRY CO.,

Detroit, Mich. (See adv. index, end of book)

Stuebner, G. L. Iron Works, Long Island City, N. Y.

Turl's, John Sens (Inc.) (Ball Bearing), 26 Cortlandt, New York. Works, Newburgh, N. Y.

Virginia Bridge & Iron Co., Roanoke, Va.

WHITING FOUNDRY EQUIPMENT

Co., Harvey, Ill. (See adv. index & branch offices, end of book)

FOR ALL INDUSTRIES.

ERNST WIENER**COMPANY.**

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Wonham-Magor & Sanger, 30 Church, New York

Turntables (Locomotive, Air,*Electric & Hand Power)****WHITING FOUNDRY EQUIPMENT**

Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Turntables (Overhead)

Atlas Bolt & Screw Co., Cleveland, O.

FREVERT MACHINERY CO., 18 Dey,

New York. (See adv. index, end of book)

Harrington, Edw. Son & Co., 17th & Callowhill, Phila., Pa.

HILL & GRIFFITH CO., Cincinnati,

O. (See adv. index, end of book)

Obenberger, Jno. Co., Milwaukee, Wis.

READING CRANE & HOIST WORKS,

Reading, Pa. (See adv. index, end of book)

Yale & Towne Mfg. Co., 9 Murray, New York

Turntables (Pressed Steel)

Broomell, Schmidt & Steacey Co., York, Pa.

Turntables (Show Cases)

Pearce, Fred'k Co., 20 Rose, New York

Turntables (Standard Gauge)

(See also Turntables for Industrial Railways; also Tables, Transfer; also Tables, Transfer, Electric)

American Bridge Co., 30 Church, New York, & Pittsburg, Pa.

Boston Bridge Works (Railroad Turntables, etc.), 47 Winter, Boston, Mass.

Buda Foundry & Mfg. Co. (Turn Tables Only), Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.

CAREY, GEO. H., 1 B'way, New

York. (See adv. index, end of book)

Chicago Bridge & Iron Co., 105th & Throop, Chicago, Ill.

Clinton Bridge Co., Clinton, Iowa

Columbia Bridge Co., Pittsburg, Pa.

Fulton Foundry Co. (Turn Tables Only), Marquette & L. S. & M. S. R'y, Cleveland, O.

King Bridge Co., Cleveland, Ohio.

McClintic-Marshall Construction Co., Pittsburg, Pa.; Rankin, Pa., & Pottstown, Pa.

Mount Vernon Bridge Co., Mount Vernon, O.

Missouri Valley Bridge & Iron Works (A. J. Thullock, Prop.), Leavenworth, Kan.
N. Y. Switch & Crossing Co., Hoboken, N. J.
Nichols, Geo. P. & Bro. (Electric, etc.), Old Colony bldg, Chicago, Ill.
Penna. Bridge Co., Beaver Falls, Pa.
Penna. Steel Co., Girard bldg, Phila., Pa.
Republic Iron & Steel Co., Pottsville, Pa.
Sellers, Wm. & Co. (Inc.) (Locomotive), 1600 Hamilton, Phila., Pa.

STROBEL STEEL CONSTRUCTION

Co., Monadnock blk., Chicago, Ill.
Toledo-Massillon Bridge Co., Toledo, O.
Virginia Bridge & Iron Co., Roanoke, Va.

ERNST WIENER COMPANY

(Transfer, etc.), 475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Wisconsin Bridge & Iron Co., Milwaukee, Wis.

Turpalin & Turpentine

Turpentine Co. (For Paint & Varnish Thinner, etc.), Phila., Pa.

Turpentine

ALABAMA.

COFFE SPRINGS—Brigman, Sellers & Co.
FLORALA—Elliott, Henry
Elliott, Henry
McLean & Son

CALIFORNIA.

SAN FRANCISCO—Noble Electric Steel Co., San Francisco, Cal.

FLORIDA.

ABBOTT—Greer, J. L.
BELLEVIEW—McGehee & Mayo
BOHEMIA—Pensacola Tar & Turpentine Co.
CARTERS—Carter Mfg. Co. (Wood)
CENTER PARK—Moore, R. O. & Co.
DUNNELLON—Jenkins, Willis & Co.
DUVAL—Duval Turpentine Co.
JACKSONVILLE—Hillman-Sutherland Co.
MONTBROOK—Flynn, D. M. & Co.
MONTICELLO—Simon, McClellan Turpentine
OTTER CREEK—Elvington, J. O. & Co. Co.
PANASOFFKEE—Harrison-McLeod Co.
PERRY—Blair & Hinely
Holmes, Jas. & Son
RAIFORD—Peacock & Little
ROCKBLUFF—Rockbluff Co.
STARKE—Powell-Smith Co.
TALLAHASSEE—Lutterloh, R. B.
TAMPA—Peninsular Naval Stores Co.
WEBSTER—Getzen, J. C.
WOODVILLE—Williamson & Co.
YORK—Horne, Louis & Co.

GEORGIA.

AILEY—Riddle, J. A.
ALBANY—Cook, I. & Co.
ALTAMAHAN—Tippins & Wildcamp
ARLINGTON—Callahan & Newberry
AURIVILLE—Autry, D. A.
BAINBRIDGE—Autrey & Horn
BINGHAM—Dorminey, Kirkland & Co.
BLADEN—Ward, J. A.
EDEN—Fetzer, G. W.
EGYPT—Foy Lumber Co.
FALES—Tanner, B. H.
FARGO—Baxter, Geo. S. & Co.
Georgia Pine Turpentine Co.
HAGAN—Smith, S. A. & Co.
HARTSFIELD—Spivey, Bell & Co.
HOMERVILLE—Pragler, H. J. & Son
IRWINVILLE—Barber, A. T. & Co.
LEARY—Williams, B. B.
LEXSY—Yonmans Bros.
LONG POND—McArthur, J. H.
McDONALD—Benett, D. H.
McRAE—Holland & Rawls
MEIGS—Carter, J. N.
MOULTRIE—Holmes-Hartsfield, S. A. & Co.
Moultrie Turpentine Co.
Spivey & Moore
NASHVILLE—Brown, E. G.
NIELLY—Smith, T. J.
OLYMPIA—West Yellow Pine Co.
PEPPER—Pfeiffer, C. B. (Est. of)
REYNOLDS—Barber & Rawls
ROCKY FORD—Flinch, D. C. & Bro. (Saw Mill)
SAVANNAH—Atlantic Turpentine Co. (Prime Steam Refined)
SHEPHERD—Lott, Smith & Co.
STATESBORO—McDougald, J. A. & Co.

Williams, Outland & Co.
THOMASVILLE—Floyd, Howell & Co.
VIENNA—Kelly, R. E.
WHITE OAK—McKinnon, L. T. & G. S.
WILLACOOCHIE—O'Berry, J. E. Sons & Co.
WILLINGHAM—Alford, C. A.

ILLINOIS.

CHICAGO—Adams, Fred. C. (Mfrs' Agt.), 36 La Salle

LOUISIANA.

COVINGTON—Jones & Pickett

MARYLAND.

BALTIMORE—Webb, A. L. & Sons

NEW YORK.

NEW YORK—Baxter, Geo. S. & Co., 15 William
Georgia Pine Turpentine Co. (of New York),
Gardiner & Percy Co., 56 Pine 158 Perry
Southern Commercial Turpentine Co., 91 Wall

NORTH CAROLINA.

ANGIER—Williams, J. C. & B. F.
CLINTON—McPhail, J. R.
MANLEY—Buchan, J. E.
NEWBERN—Ellis, Mrs. E. B.

PENNSYLVANIA.

GLENSHAW—Brazilian Turpentine Co.
PITTSBURG—Ball Chemical Co. (Norway)

SOUTH CAROLINA.

GEORGETOWN—Georgetown Chemical Works

Turpentine Substitute

Walker Chemical Works, Harrison, N. J.

Turpentine (Terrene)

Bull's Head Oil Works ("Bull's Head"), San Francisco, Cal.

Turret Attachments

Bradford Machine Tool Co., 671 Evans, Cincinnati, O.

Tuyeres & Coolers

Ajax Metal Co., 46 Richmond, Phila., Pa.
Best Mfg. Co. (Bronze), Pittsburg, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Falcon Bronze Co., Youngstown, O.
Hartman Co., 1231 N. Front, Phila., Pa.
Keystone Bronze Co., 38th & A V Ry, Pittsburgh, Pa.

LAWRENCEVILLE BRONZE CO.
(Also Notches), 31st & Penn av., Pittsburgh, Pa. (See adv. index, end of book)
MacKenzie's, Duncan & Son, Trenton, N. J.
United Engineering & Fdry. Co., Pittsburgh, Pa.

Tweezers (Piano Makers')

Kraeuter & Co., Newark, N. J.

Twine (Binder)

American Grass Twine Co., St. Paul, Minn.
American Mfg. Co. (Sisal & Manila & Jute), 63 Wall, New York
Bailey, Christopher, 810 S Swanson, Phila., Pa.
Bailey, John T. & Co. (Sisal & Manila), c Water & Morris, Phila., Pa.
Bay State Cordage Co. (Manila & Sisal), Boston, Mass.
Chelsea Cordage Co., Chelsea, Mass.
Fittler, Edwin H. Co., 23 N Delaware av., Phila. Pa.
Galveston Rope Co. (Sisal), Galveston, Tex.
Groendyke, J. C. Co., 140 Dearborn, Chicago, Ill.
Hooven & Allison Co. ("Star-A. H."), Xenia, Ohio
International Flax Twine Co. (Flax, Sisal & Manila), 7 Monroe, Chicago, Ill.
Jackson, Thos. & Son (Manila & Sisal), Reading, Pa.
Kentucky River Mills (Hemp & Flax), Frankfort, Ky.
Lawrence Cordage W'ks, 46 South, New York
Ludlow Mfg. Associates (Manila & Sisal), Boston, Mass.
Miamisburg Twine & Cordage Co. (Manila & Sisal), Miamisburg, O.

New Bedford Cordage Co. (Jute), New Bedford, Mass.

Penn Cordage Co., 44 B'way, New York
Peoria Cordage Co. (Sisal & Manila), Peoria, Ill.
Plymouth Cordage Co., Plymouth, Mass.
Portland Cordage Co. (Flat), Portland, O.
Rink's, J. Sons, Easton, Pa.
St. Louis Cordage Co. (Jute), St. Louis, Mo.
Standard Cordage Co. ("Crown" & "Sewell & Day" Brands), 45 South, New York
State Penitentiary, Bismarck, N. Dak.
Traverse Bros. (Sisal & Manila), 41 Worth, New York

Tubbs Cordage Co., Kohl bldg, San Francisco, Cal.

TUCKER & CARTER ROPE CO., 76 South, & 167 Maiden La. New York. (See adv. index, end of book)

Union Selling Co., 17 State, New York

Waterbury Co. (Inc.) (Sisal & Manila), 69 South, New York

Witlock Cordage Co., 46 South, New York

Twine (Cotton)

(See Cordage & Twine Manufacturers)

*Twine (Flax)

TUCKER & CARTER ROPE CO., 76 South, & 167 Maiden La. New York. (See adv. index, end of book)

Twine (Hemp)

Ludlow Mfg. Associates, Boston, Mass.
TUCKER & CARTER ROPE CO., 76 South, & 167 Maiden La. New York. (See adv. index, end of book)

*Twine (Sail)

TUCKER & CARTER ROPE CO., 76 South, & 167 Maiden La. New York. (See adv. index, end of book)

Twine (Seine)

American Net & Twine Co., 575 Atlantic av., Boston, Mass.
Bibb Mfg. Co., Macon, Ga.
Brownell & Co., Moodus, Conn.
Fowler Net & Twine Co., 107 S. Second st., Philadelphia, Pa.

Gloucester Net & Twine Co., Gloucester, Mass.
Greene & Daniels Mfg. Co., Pawtucket, R. I.
Lees Mfg. Co., Westport, Conn.

Manchester Mfg. Co., Macon, Ga.
Neptune Twine & Cord Mills, Moodus, Conn.
New York Net & Twine Co., Moodus, Conn.
Purple, A. E. Moodus, Conn.

TUCKER & CARTER ROPE CO., 76 South, & 167 Maiden La. New York. (See adv. index, end of book)

Twine (Tarred Hoop)

American Mfg. Co., 63 Wall, New York

*Twine (Wrapping)

TUCKER & CARTER ROPE CO., 76 South, & 167 Maiden La. New York. (See adv. index, end of book)

Type (Rubber)

Crescent Seal & Stamp Co., Cambridge, O.
Hanson, C. H., 44 Clark, Chicago, Ill.
Matthews, Jas. H. & Co. (Solid), 306 Wood, Pittsburg, Pa.
Smith, R. H. Mfg. Co. (Metal Body), 293 Main, Springfield, Mass.
Superior Rubber Type Co., 260 5th av. Chicago, Ill.

Type (Wood)

Empire Wood Type Co., 818 E 5th, New York
Hamilton Mfg. Co., Two Rivers, Wis.
New England Wood Type Co., Brookline, N. H.
Tubbs Mfg. Co. ("Tubbs" Point Line & Printers Wood Furniture), Ludington, Mich.

Typewriter Carbon Papers

(See Paper, Carbon)

*Typewriter Ribbon Cutting Machines

CAMERON MACHINE CO., 61 Poplar, Brooklyn, N. Y. (See adv. index, end of book)

Typewriter Ribbons

Allen, John & Co., 480 Pearl, New York
 American Multigraph Sales Co., Cleveland, O.
 American Ribbon & Carbon Co. ("Eagle"),
 Rochester, N. Y.
 Anlt & Wiborg Co., Cincinnati, O.
 Bayer, Frank ("Markwell"), 22 N William, N.Y.
 Black Diamond Ribbon & Carbon Co. ("Black
 Diamond"), Rochester, N. Y.
 Buckeye Ribbon & Carbon Co., Cleveland, O.
 Carter's Ink Co. ("Ideal"), Boston, Mass.
 Columbia Ribbon & Carbon Co. ("Columbia"),
 111 W B'way, New York
 Corona Supply Co. ("Corona"), Rochester, N. Y.
 Crown Ribbon & Carbon Mfg. Co. ("Crown,"
 "Globe"), Rochester, N. Y.
 De-Fi Mfg. Co. ("De-Fi Polychrome"), 150
 Nassau, New York
 Dodge Co. ("Du-Ra-Bul"), Syracuse, N. Y.
 Downes & Co. ("So Klean"), 104 Nassau,
 New York
 Foyer, Chas. A. & Co. ("Foyer"), 1120 Pros-
 pect av, Cleveland, O.
 Heale, J. A. & Co. ("H.-B."), 96 John, New
 York
 Indeliba Mfg. Co. (Inc.), Rochester, N. Y.
 International Carbon Paper Co. ("I. C. P. Co."),
 241 Centre, New York
 Kee Lox Mfg. Co. ("Kee Lox"), Rochester,
 N. Y.
 Keystone Carbon Paper Co. ("Keystone"),
 Franklin, Pa.
 Kruse Printing Ink Co., 91-93 Cliff, New York
 Little, A. P., Rochester, N. Y.
 Miller-Bryant-Pierce Co. ("Carnation"), Aurora,
 Ill.
 Mittag & Volger (Inc.), ("Enreka"), Park Ridge,
 N. J.
 Newark Ribbon & Carbon Mfg. Co., Newark,
 N. J.
 Pen-Carbon Manifold Co. ("Cotton King,"
 "Mercerized Silk"), New Brunswick, N. J.
 Republic Carbon & Ribbon Mfg. Co. ("Repub-
 lic"), 46 W B'way, New York
 Rothschild, M. M., 96 5th av, Chicago, Ill.
 Snelling & Son, Brooklyn, N. Y.
 Stambaugh, Wm. B., Metropolitan Life Bldg.,
 New York
 Union Ribbon & Carbon Co. ("Apex," "Summit,"
 "Cyclo"), 9th & Thompson, Phila., Pa.
 United States Typewriter Ribbon Mfg. Co. ("U.
 S."), 8th & Sansom, Phila., Pa.
 Webster, F. S. Co., Boston, Mass.

Typewriter Stands

Tatum, Samuel C. Co., Cincinnati, O.

Typewriters

Acme-Keystone Mfg. Co., Beaver Falls, Pa.
 American Writing Machine Co., 343 B'way,
 New York
 Beach-Kauffman Mfg. Co. ("Kauffman" Visible),
 61 W Fort, Detroit, Mich. Works, Newark,
 N. J.
 Blickensderfer Mfg. Co., Stamford, Conn.
 Chicago Writing Machine Co., 35 Randolph, Chi-
 cago, Ill.
 Columbia Typewriter Mfg. Co., 62 Reade, New
 York
 Elliott-Fisher Co., 329 B'way, New York
 Elliott & Hatch Book Typewriter Co., 329
 B'way, New York
 Emerson Typewriter Co. ("Emerson"), Mar-
 quette bldg, Chicago, Ill.
 Fay-Scholes Co., Chicago, Ill.
 Fox Machine Co., Grand Rapids, Mich.
 Hammond Typewriter Co. ("Hammond" Visi-
 ble), 69th & East River, New York
 Ithaca Gun Co., Ithaca, N. Y.
 Monarch Typewriter Co. ("Monarch" Visible),
 Syracuse, N. Y.
OLIVER TYPEWRITER CO., 310
 B'way, New York. (See adv. index, end of
 book)
 Plattsburg Writing Machine Co.; Works, Kit-
 tanning, Pa.
 Postal Typewriter Co., South Norwalk, Conn.
 R. & G. Typewriter Co., 229 B'way, New York
 Rebuilt Typewriter Co. (All Kinds Rebuilt), 37
 Dearborn, Chicago, Ill.
 Remington Typewriter Co., 327 B'way, New
 York
 Royal Typewriter Co. ("Royal"), 364 B'way,
 New York
 Secor Typewriter Co. ("Secor" Visible), Derby,
 Conn.
 Simplex Typewriter Co., 644 1st av, New York
 Smith, L. C. & Bros. Typewriter Co., Syracuse,
 N. Y.
 Smith Premier Typewriter Co., Syracuse, N. Y.
 Stearns, E. C. & Co. ("Stearns," Visible),
 Syracuse, N. Y.
 Sun Typewriter Co., 317 B'way, New York
 Triumph Visible Typewriter Co., 13 Park row,
 New York

Underwood Typewriter Co., Hartford, Conn.
 Victor Typewriter Co. ("Victor," writes two
 colors, one at a time), 812 Greenwich, New
 York
 Williams Typewriter Co., Derby, Conn.
 Yost Writing Machine Co., 343 B'way, New
 York

Typewriters (Adding & Billing)

Adding Typewriter Co., Poplar Bluff, Mo.
 Arithmograph Co. (Adding), 296 B'way, New
 York
 Dudley Adding & Billing Machine Co., 605 Cal-
 vert Bldg., Baltimore, Md.
 Elliott-Fisher Typewriter Co., 329 B'way, New
 York
 Felt & Tarrant Mfg. Co. (Comptometer), 856 N
 Paulina, Chicago, Ill.
 Moon-Hopkins Billing Machine Co., 19th & Pine,
 St. Louis, Mo.

Typewriters (Multiple)

American Multigraph Sales Co. ("Grammeter
 Multigraph" for printing office forms, fac-
 simile letters, etc.), Case av & Kelly,
 Cleveland, O.

*Typewriting Specifications Re- produced in Inkograf Fac-Similes

SOLTMANN, E. G.

(Also Everything for the Architect, Engi-
 neer & Draughting Room), 125 E 42d, New
 York. (See adv. index, end of book)

Umbrella Parts (Steel)

Newark Rivet Works, Newark, N. J.

Umbrellas (Wagon, Truck & Advertising)

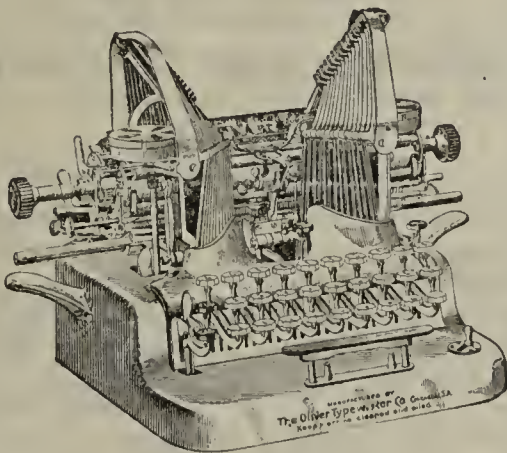
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Pressed Steel Car Co., Pittsburg, Pa.
RALSTON STEEL CAR CO., (For all
kinds of Freight & Passenger Cars), Col-
umbus, O. (See adv. index & branch
offices, end of book)
Standard Steel Car Co., Pittsburg, Pa.
Western Steel Car & Foundry Co., Old Colony
bldg, Chicago, Ill.

Uniforms (Employees)

Lilley, M. C. & Co., Columbus, O.
Newcomb, F. H., 136 Flatbush av, Brooklyn.
Olhm & Co., Baltimore, Md. N. Y.
Orr, C. F. & Co., 164 Dearborn, Chicago, Ill.
Pettibone Bros. Mfg. Co., Cincinnati, O.
Royalton Woolen Co., 70 Worth, New York
Shapiro, Wm., 587 5th av, Brooklyn, N. Y.
Singer, A. L. & Co., 173 Adams, Chicago, Ill.
Wendell, Fay & Co., 82 Worth, New York

Unions

American Steam Trap Co., Albany, N. Y.
Bard Union Co. (Inc.), ("Bard"), Norwich, Conn.
Belfield, H. & Co. (Flanger Malleable Iron),
453 N Broad, Phila., Pa.
Best Mfg. Co. ("Universal"), 25th & A. V. Ry.,
Pittsburg, Pa.
Bridgman Bros. Co. (Brass Ground Joint), 1422
Washington, Phila., Pa.
Buckeye Iron & Brass Wks., Dayton, O.
Clum & Atkinson (Brass, also Ground Joint Sol-
dering), Rochester, N. Y.
Crane Valve Co. (Brass), Bridgeport, Conn.
Crawford & Tyler, North Dana, Mass.
Darling Pump & Mfg. Co., Williamsport, Pa.
Dart, E. M. Mfg. Co. ("Peerless"), Providence,
R. I.
Devlin, Thos. & Co. ("National"), Phila., Pa.
Eastwood Wire Mfg. Co. (Bronze, End Flanged,
etc.), Belleville, N. J.
Eureka Brass Works, Cincinnati, O.
Featherstone Foundry & Machine Co. (Drop
Forged Flange), 348 N Halstead, Chicago,
Ill.
Flagg, Stanley G. & Co. ("Keystone," Soft
Metal Seat), 424 N 19th, Phila., Pa.
General Fire Extinguisher Co. (Flanged Cast
Iron, etc.), Providence, R. I.
Grabler Mfg. Co. (Malleable Iron), Cleveland,
Ohio
Hamlin & Emery Brass Co. (Brass), 26 Island,
Boston, Mass.
Hancock Mfg. Co., Charlotte, Mich.
Jefferson Union Co. (For High & Low Pressure),
Lexington, Mass.
Lambert, Geo. B. & Co., Chicago, Ill.
LUNKENHEIMER CO. General Of-
fices & Works, Beekman & Waverly, Cin-
cinnati, O. (See adv. index & branch offices,
end of book)
McCambridge & Co., 315 N 20th, Phila., Pa.
McCarthy, Felix, Pottstown, Pa.
Monash-Younger Co. ("Star"), 203 S Canal, Chi-
cago, Ill.

Mullaney's, Jas. Son, 25th cor Lex av, New
York
National Tube Co. ("Kewanee" Octagon, Hex-
agon, Round, "M. & F." Extra Heavy,
Hydraulic, Air Pump, Air Drill, Hose,
Eccentric & Flange, all Brass), Pittsburg,
Pa.

Newbury Mfg. Co. (Grey Iron), Monroe, N. Y.
Nichol, Thos. J. & Co. (Brass), Pearl & Ludlow,
Cincinnati, O.
Nolte Brass Co. (Brass & Soldering), Spring-
field, O.
Ohio Brass Co. ("Ohio" Bronze), Mansfield, O.
Panecost, Henry B. & Co. ("American"), 243 S
3d, Philadelphia, Pa.
Pittsburg Brass Mfg. Co. (Brass, Extra
Heavy), Penn av & 32d, Pittsburg, Pa.
Pleuger & Henger Mfg. Co., 11th & Hebert, St.
Louis, Mo.
Powell, Wm. Co. (Brass), Cincinnati, O.
Queen City Brass & Iron Works (Brass, Solder-
ing, etc.), Cincinnati, O.
Tight Joint Co. ("Tight-Joint" Flanged, for
High Pressure), 306 E 47th, New York
Williams, D. T. Valve Co., 410 E 8th, Cin-
cinnati, O.

Williams, Franklin ("Tuxedo," Bronze for
High Pressure), 39 Cortlandt, New York

*Unions (Brass, Brazing & Flange)

LUNKENHEIMER CO., General Offices &
Works, Beekman & Waverly, Cincinnati,
O. (See adv. index & branch offices, end
of book)

Unions (Flanged)

Crane Co. (Est. 1855), 519 S Canal, Chicago,
Ill. (See adv. index & branch offices,
end of book)
Dame & Townsend Co. ("Dame & Townsend
Co.'s"), Cliff & Fulton, New York
National Tube Co. ("Kewanee," Cast & Mal-
leable), Pittsburg, Pa.
Ohio Brass Co., Mansfield, O.

*Unions (Furnace)

PITTSBURGH GAGE & SUPPLY CO.,
30th & Liberty av, Pittsburgh, Pa. (See adv.
index, end of book)

*Unions (Universal)

PITTSBURGH GAGE & SUPPLY CO.,
30th & Liberty av, Pittsburgh, Pa. (See adv.
index, end of book)

Unions & Nipples (Soldering)

Blatchford, E. W. Co., 70 N Clinton, Chicago,
Buckeye Iron & Brass Wks., Dayton, O. Ill.
Burlington Brass Works, Burlington, Wis.
Campbell, J. B. Brass Works, Erie, Pa.
Cleveland Bronze & Brass Works (Brass),
Cleveland, O.

Clum & Atkinson, Rochester, N. Y.
Columbus Brass Co., Columbus, O.
Eagle Brass Works, Detroit, Mich.
Elkhart Brass Mfg. Co., Elkhart, Ind.
Glauber Brass Mfg. Co., Cleveland, O.
Haines, Jones & Cadbury, 1136 Ridge av.,
Phila., Pa.

Jefferson Union Co., Lexington, Mass.
Mueller, H. Mfg. Co., Decatur, Ill.
National Mfg. & Supply Co., Minneapolis,
National Tube Co., Pittsburg, Pa. Minn.
Nolte Brass Co., Springfield, O.
Queen City Brass & Iron Works, Cincinnati, O.
Sanitary Co., Cleveland, O.
Savill, Thos. & Sons, 11th & Wood, Phila., Pa.
Springfield Brass Co., Springfield, O.

UNION WATER METER CO., (Com-
hination Soldering Nipple), Worcester,
Mass. (See adv. index, end of book)
Warren Brass Co., Warren, O.
Williams, D. T. Valve Co., 40 E 8th, Cin-
cinnati, O.
Wolverine Brass Works, Grand Rapids, Mich.

*Unit Group System of Multiple Control

WESTINGHOUSE ELECTRIC & MFG.
Co., Unloun Bank bldg, Pittsburg, Pa. (See
adv. index & branch offices, end of book)

Universal Joints

(See Joints, Universal)

Unloaders (Ballast)

(See Ballast Loaders & Unloaders)

Unloaders (Sugar Cane Car)

Gregg Company (Ltd.), Newburgh, N. Y.

Upsetters (Tire)

(See also Upsetting & Forging Machines)

Brooks Tire Machine Co. (Hand Power for
Upsetting Tires Cold while on Wheels),
Wichita, Kan.

Buffalo Forge Co., Buffalo, N. Y.
Comstock, Geo. S. ("Comstock" Fire & Axle
Shrinker), Mechanicsburg, Pa.
Fulton Iron Works (Stoddard's), Detroit, Mich.
Illinois Iron & Bolt Co., Carpentersville, Ill.
Star Forge Co., Buffalo, N. Y.
Wiley & Russel Mfg. Co. (Green River Stile),
Greenfield, Mass.

Urinal Stalls

Mott, J. L. Iron Works ("Imperial," Porce-
lain), 118 5th av, New York
Piedmont Soapstone Co. (Soapstone), 55 Con-
gress, Boston, Mass.; Works: Asbestine, Va.
Walls, Owen & Stambach Co. (Soapstone),
11th & Ridge av, Phila., Pa.

Urinals (Public)

CENTRAL FOUNDRY CO. (Cast
Iron), 37 Wall, New York. (See adv.
index, end of book)

Urns & Vases (Terra Cotta)

Carnegie Brick & Terra Cotta Co., San Fran-
cisco, Cal.
Clark, N. & Sons, 17 Spear, San Francisco,
Cal.
Stelger Terra Cotta & Pottery Works, San
Francisco, Cal.

Vacuum Drying & Impregnating Apparatus

Buffalo Foundry & Machine Co., Buffalo, N. Y.
Devine, J. P. Co. ("Emil Passburg"), Buffalo,
N. Y.
Hubbard's, Norman Sons, 265 Water, Brook-
lyn, N. Y.
Stokes, F. J. Machine Co., 17th & Cambria,
Phila., Pa.

Vacuum Jacketed Receptacle

Vacuum Insulating Co. ("Vac-Jack" Carrier,
in Metal for Retaining Heat or Cold), Old
Colony bldg, Chicago, Ill.

*Vacuum Pan Appliances

NATIONAL GAUGE CO., 168 8th,
Brooklyn, N. Y. (See adv. index, end of
book)

Vacuum Cleaners (Hand & Power)

American Vacuum Cleaner Co., 225 5th av,
New York
Atwood Vacuum Co. (Electro-Pneumatic Port-
able), Madison, Wis.
Automatic Vacuum Cleaner Co. (Light & Port-
able), Bloomington, Ill.
Blaisdell Machinery Co. (Power), Bradford,
Pa.
Columbia Suction Cleaner Co. (Portable), 218
Fulton, Brooklyn, N. Y.
Duntley Mfg. Co. ("Duntley" Electric Port-
able), 303 Dearborn, Chicago, Ill.
Electric Suction Sweeper Co. (Electro-Pneu-
matic Portable), New Berlin, O.
Federal-Huber Co., Halsted & Fulton, Chicago,
Ill., & 244 5th av, New York
Garden City Fan Co. (Portable & Stationary),
Flsher bldg, Chicago, Ill.
General Compressed Air and Vacuum Machinery
Co., 4469 Olive, St. Louis, Mo.
Hutchinson Mfg. Co. ("Success" Hand Pow-
er), Wilkinsburg, Pa.
Keller Mfg. Co. ("Santo"), 21st & Allegheny
av, Phila., Pa.
National Vacuum Cleaning Co. ("Green"),
Dayton, O.
P. & W. Vacuum Cleaner Co., 523 W 45th,
New York
Perfection Vacuum Cleaning Co. (Portable),
35 So Clark, Chicago, Ill.
Railway Specialty & Supply Co. ("Vak-Klein"),
77 Jackson boul, Chicago, Ill.
Spencer Turbine Cleaner Co., Hartford, Conn.
Vacuum Cleaner Co. ("Kenuey"), 72 Trinity
pl, New York

Valve Balls (Rubber)

BOSTON BELTING CO., 260 Devon-
shire, Boston, Mass., & 100 Reade, New
York. (See adv. index & branch offices, end
of book)

Cleveland Rubber Works, Cleveland, O.
Continental Rubber Works, Erie, Pa.
DIAMOND RUBBER CO., Akron, O.
(See adv. index, end of book)

Goodrich, B. F. Co., Akron, O.
Manhattan Rubber Mfg. Co., 126 Duane, New
York
Mechanical Rubber Co., 73 Reade, New York
Morgan & Wright (Inc.), Detroit, Mich.
National India Rubber Co., Bristol, R. I.
New York Belting & Packing Co. (Ltd.), 91
Chambers, New York
New York Rubber Co., 84 Reade, New York
Peerless Rubber Mfg. Co., 16 Warren, New
York

PENNSYLVANIA RUBBER CO.,
Jeannette, Pa. (See adv. index & branch
offices, end of book)
Revere Rubber Co., 63 Franklin, Boston, Mass.

Valve Bodies

Bethlehem Foundry & Machine Co. (Large Cast
Iron Rough or Finished), Front st, South
Bethlehem, Pa.

Valve Cups (Leather)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
Whittlessey, H. E. & Sons, Corry, Pa.

Valve Mfrs. for Steam, Gas & Water

(For Jobbers of these Goods see Plumbers' Supplies, Jobbers; also Steam Fitters' Supplies & Specialties, Jobbers)

(For Various Kinds of Valves see Sub-classifications following this list)

Acton, John, 118 John, Brooklyn, N. Y.
Albany Steam Trap Co., 60 Church, Albany, N. Y.
All Metal Valve Co., 136 Liberty, New York
Alpena Industrial Works (Lewis T. Cline, Prop.), Alpena, Mich.
American Balance Valve Co., Jersey Shore, Pa.
American District Steam Co., Lockport, N. Y.
American Radiator Co., Chicago, Ill.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
American Valve Co., Cossackie, N. Y.
American Valve & Meter Co., Cincinnati, O.
AMERICAN WELL WORKS, Aurora, Ill.
(See adv. index & branch offices, end of book)
Ashton Valve Co., 271 Franklin, Boston, Mass.
Atwood & Morrill, Salem, Mass.
Bashlin Co., Warren, Pa.
Beaumont, Richard (Est. of), Kankakee, Ill.
Belfield, H. & Co., 435 N. Broad, Phila., Pa.
Belknap Mfg. Co., Bridgeport, Conn.
Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.
Bordo, L. J. Co. (Inc.), 12th & Thompson, Phila., Pa.
Boston Brass Co., 36 Oliver, Boston, Mass.
Bourbon Copper & Brass Works, Cincinnati, O.
Buckeye Iron & Brass Works, Dayton, O.
Burlington Brass Works ("Kant"), Burlington, Wis.
Burrows Mfg. Co., York, Pa.
Burton & Johnson, Cleveland, O.
Cadman, A. W. Mfg. Co., Pittsburg, Pa.
Canton Brass Co., Canton, Ohio.
Capital Brass Works, Detroit, Mich.
Cayuta Mfg. Co., Sayre, Pa.
Chapman Valve Mfg. Co., Indian Orchard, Mass.

Coale Muffler & Safety Valve Co., Fidelity bldg, Baltimore, Md.
Coffin Valve Co., Neponset, Boston, Mass.
Coldwell-Wilcox Co., Newburgh, N. Y.
Columbus Brass Co., Columbus, O.
Consolidated Safety Valve Co., 85 Liberty, New York
Crane Valve Co., Bridgeport, Conn.
CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co., Williamsport, Pa.
Davis, Geo. M. Regulator Co., 144 Milwaukee, av, Chicago, Ill.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Detroit Heating & Lighting Co., Wight nr Leib, Detroit, Mich.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.

Dorn & Marcellus Co., York & Mascher, Philadelphia, Pa.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eddy Valve Co., Waterford, N. Y.
Engberg's Electrical & Mechanical Works (Electro Hydraulic Valve), St. Joseph, Mich.
Evans Mfg. Co., Butler, Pa.
Exeter Machine Works, Exeter, N. H.
Eynon-Evans Mfg. Co., 1519 Clearfield, Philadelphia, Pa.

Fewlass-Leen Brass & Iron Co., Cincinnati, O.
Fisher Governor Co., Marshalltown, Ia.
Ford, Thos. P. Co., 407 Broome, New York
FOSTER ENGINEERING CO., 119
Monroe, Newark, N. J. (See adv. index, end of book)

Foster, F. W. Mfg. Co., 6 Portland, Boston, Mass.

French Oil Mill Machinery Co., Piqua, O.
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)

General Fire Extinguisher Co., Providence, R. I.
Gold Car Heating & Lighting Co., 17 Battery pl, New York

GORTON & LIDGERWOOD CO. (Gorton Quick Opening), 96 Liberty, New York, & Fisher bldg., Chicago, Ill. (See adv. index, end of book)

Hancock Inspirator Co., The, 85 Liberty, New York

Harde-Tynes Foundry & Machine Co., Birmingham, Ala.

Harvey's, A. Sons Mfg. Co., 22 1st, Detroit, Mich.

Hayden, N. L. Mfg. Co. ("Tippett" Compact), Columbus, O.

Hayden & Derby Mfg. Co., 85 Liberty, New York
Haydenville Co., Haydenville, Mass.
Hays Mfg. Co., Erie, Pa.

Hermance Valve Co., Syracuse, N. Y.
Hills, Rob't E. & Co., 128 Kinzie, Chicago, Ill.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.

Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Homer Brass Works (Inc.), 231 Race, Philadelphia, Pa.

Homestead Valve Mfg. Co., Homestead, Pa.
Huxley Valve Co., 281 Chicago, Buffalo, N. Y.

Illinois Malleable Iron Co., 515 Diversey Boul., Chicago, Ill.

Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
Jenkins Bros., 71 John, N. Y.; 35 High, Boston, Mass.

Kelly & Jones Co., 135 Water, Pittsburg, Pa.
Kennedy Valve Mfg. Co., Elmira, N. Y.

Keystone Brass Co., Erie, Pa.
Kieley & Mueller, 34 W 13th, New York

Kinsey & Mahler Co. ("K. & M."), Peoria, Ill.
Kirkup, Robt. & Co., 620 Lodge, Cincinnati, O.

Kitts Mfg. Co., Oswego, N. Y.
Klipfel Mfg. Co. ("K. & T."), 44 N Carpenter, Chicago, Ill.

Kunkle, E. B. & Co., Fort Wayne, Ind.
Lang, J. Electric Co., 116 N Lincoln, Chicago, Ill.

Lavinge Mfg. Co. ("Packless"), Detroit, Mich.
Lee Inceptor Mfg. Co., Detroit, Mich.

Libby Valve & Packing Co., Natick, Conn.
Liberty Mfg. Co., 6907 Susquehanna, Pittsburg, Pa.

Lloyd Mfg. Co., Minneapolis, Minn.
Locke Regulator Co., Salem, Mass.

Loetzer Valve & Mfg. Co., Monroeton, Pa.
Loneragan, J. E. & Co., 211 Race, Philadelphia, Pa.

Ludlow Valve Mfg. Co., Troy, N. Y.
LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McCambridge & Co., Philadelphia, Pa.
McGowan, Jno. H. Co., Cincinnati, O.

McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book.)

McNab & Harlin Mfg. Co., 56 John, New York
McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)

Marquette, John N. (Lead-Lined Acid), 509 S. Eden, Baltimore, Md.

Marsh, Jas. P. & Co., 224 Washington, Chicago, Ill.

Mason Regulator Co., 158 Snmmer, Boston, Mass.

Milwaukee Valve Co., Milwaukee, Wis.
MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

Monash-Yunker Co. (Steam & Water Only), 203 S Canal, Chicago, Ill.

Mueller, H. Mfg. Co., Decatur, Ill.
Nason Mfg. Co., 71 Beekman, New York

National Tube Co., Pittsburg, Pa.
Nelson, Chas., 439 E 10th, New York

Nelson, N. O. Mfg. Co., St. Louis, Mo.
Nelson Valve Co., Wyndmoor, Pa.

New Bedford Boiler & Machine Co., New Bedford, Mass.

Nolte Brass Co. (A. B. Nolte, Prop.), Springfield, O.

Non-Corrosive Valve & Pipe Co., 25 W. 1st, Boston, Mass.

Ohio Brass Co., Mansfield, O.

OIL WELL SUPPLY CO. (Iron & Brass), 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Patterson-Allen Engineering Co., 2 Recter, New York

Pearce, W. H. & Co. ("Crescent," Steam Only), 269 Dearborn, Chicago, Ill.

Perkes, Chas. (Est. of), 623 Arch, Phila., Pa.
Pierce, Butler & Pierce Mfg. Co., Syracuse, N. Y.

Pioneer Brass Works, Indianapolis, Ind.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book.)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Powell, Wm. Co., Cincinnati, O.

Powhatan Brass & Iron Works, Charlestown, Va.

Pratt & Cady Co., Hartford, Conn.
Queen City Brass & Iron Works, Spring Grove & Garrard av, Cincinnati, O.

Rensselaer Mfg. Co., Troy, N. Y.
Ross Valve Mfg. Co., Troy, N. Y.

Rundle, Spence Mfg. Co., Milwaukee, Wis.
Safety Cylinder Valve Co., Mansfield, O.

Schaeffer & Rudenberg Mfg. Co., 963 Kent av, Brooklyn, N. Y.

Schutte & Koerting Co., 1251 N 12th, Philadelphia, Pa.

Smith, A. P. Mfg. Co., Newark, N. J.
Smith, H. B. Co., Westfield, Mass., & 39 E Houston, New York

South Park Foundry & Machine Co., St. Paul, Minn.
Springfield Brass Co., Springfield, O.

Standard Steam Specialty Co., 542 W B'way, New York

Star Brass Mfg. Co., 103 Dedham, Boston, Mass.

Stephens, Roe Mfg. Co., Detroit, Mich.
Sweet & Doyle Valve Co., Green Island, N. Y.

Swift Lubricator Co., Elmira, N. Y.
Thomas Brass & Iron Co., Waukegan, Ill.

Thompson, J. & Co., cor Van Horn & Sophia, Philadelphia, Pa.

Tranter Mfg. Co., Pittsburg, Pa.

UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

Utica Steam Gauge Mfg. Co., Frankfort, N. Y.
Walch & Wyeth, 87 E. Lake, Chicago, Ill.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Watson & Daniels Co., 146 N 7th, Phila., Pa.

Whitcomb, Geo. D. Co., Rochelle, Ill.

Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valve Re-Seating Machines

(See Machines, Valve Re-seating)

Valve Seat-Milling Machines

(See Machinery, Valve Re-seating)

Valve Seats (Ball)

Cassady-Fairbank Mfg. Co., 6106 La Salle, Chicago, Ill.

Darling Pump & Mfg. Co., Williamsport, Pa.

Valve Stems

Electric Welding Products Co., Cleveland, O.
Union Drop Forge Co. (Drop Forged), Chicago, Ill.

*Valve Testing Device

WESTINGHOUSE AIR BRAKE CO. ("Westinghouse" Portable Triple), Pittsburg, Pa.

*Valve & Plug Testing

SIMMONS, JNO. CO. ("L. & K.") Valve & Plug, 106 Centre, New York. (See adv. index, end of book)

Valve & Service Boxes

(See Boxes, Valve & Service)

Valves (Acid)

Chapman Valve Mfg. Co., Indian Orchard, Mass.

CORNELL & UNDERHILL, 47 Beach, New York. (See adv. index, end of book)

Darling Pump & Mfg. Co., Williamsport, Pa.

Eastwood Wire Mfg. Co., Belleville, N. J.

Graham, Cbas. Chemical Pottery Works (Stoneware), 986 Metropolitan av, Brooklyn, N. Y.

Homestead Valve Mfg. Co., Homestead, Pa.

Marquette, John N. (Lead-Lined), 509 S. Eden, Baltimore, Md.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Rensselaer Mfg. Co., Troy, N. Y.

Robertson, Jas. Mfg. Co., 14 S Hanover, Baltimore, Md.

SHAW, BENJ. F. CO., Wilmington, Del. (See adv. index, end of book)

Valves (Adams or Y)

Crane Valve Co., Bridgeport, Conn.
Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

Valves (Air)

All Metal Valve Co., 136 Liberty, New York
American Pin Co., Waterbury, Conn.
American Radiator Co. (Automatic, "Libra," "Norwall"), 282 Michigan av, Chicago, Ill.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Bashlin Co., Warren, Pa. (of book)
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Belknap Mfg. Co. (Automatic), Bridgeport, Conn.

Buckeye Iron & Brass Works, Dayton, O.
Canton Brass Co. (Radiator), Canton, O.
Capital Brass Works (Radiator), Detroit, Mich.
Caskey Valve Co. (High Pressure), 99 John, New York
Chapman Valve Mfg. Co., Indian Orchard, Mass.
Coffin Valve Co., Neponset, Boston, Mass.
Consolidated Engineering Co. ("Van Auken" Water Seal, Automatic), cor. Jackson & Canal, Chicago, Ill.

CORNELL & UNDERHILL, 47 Beach, New York. (See adv. index, end of book)
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
Davis, Geo. M. Regulator Co. ("Victor"), 144 Milwaukee av, Chicago, Ill.
Detroit Heating & Lighting Co., Wight, nr. Leib, Detroit, Mich.
Dunham, O. G. Co. ("Norwall"), 24 S 7th, Phila., Pa.

Eagle Brass Works, Detroit, Mich.
Eddy Valve Co., Waterford, N. Y.
Exeter Machine Works, Exeter, N. H.
FOSTER ENGINEERING CO. (Air Reducing & Relief), 119 Monroe, Newark, N. J. (See adv. index, end of book)
General Fire Extinguisher Co., Providence, R. I.
Gold Car Heating & Lighting Co., 17 Battery pl, New York
Harlem Mfg. Co. ("Omega," Automatic, etc.), 42 W 67th, New York
Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.

Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Illinois Malleable Iron Co. (Automatic, etc.), 515 Diversey Boul., Chicago, Ill.
INDUSTRIAL INSTRUMENT CO., (And Automatic Radiator Air), Foxboro, Mass. (See adv. index & branch offices, end of book)
Jarecki Mfg. Co., Erie & Pittsburgh, Pa.
Jenkins Bros. (Automatic, etc.), 71 John, New York

Kelly & Jones Co. (Compression & Lock Shield), 135 Water, Pittsburgh, Pa.
Lawler Regulator Co. ("Lawler" Automatic Floatless for Hot Water Radiators), 473 W Broadway, New York
Leyner, J. Geo. Engineering Works Co., Littleton, Col.
Loetzer Valve & Mfg. Co. (For Water Mains), Monroeton, Pa.
Ludlow Valve Mfg. Co., Troy, N. Y.

LUNKENHEIMER CO. General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McRAE & ROBERTS CO., 227 Campbell av, Detroit, Mich. (See adv. index, end of book)
Magee, Alonzo H. ("Jumbo"), 106 Beekman, New York
Marsh, James P. Co. ("Acme," "Paul," "S. & H. Special," "Illinois"), 224 Washington, Chicago, Ill.

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
Monash-Yunker Co. ("Perfected Duplex Monash"), 203 S Canal, Chicago, Ill.
National Steam Specialty Co. ("National," "Economy" Radiator), 230 E Washington, Chicago, Ill.
Penna. Engineering Co. ("Penn"), 1119 N Howard, Phila., Pa.

Pierce, Butler & Pierce Mfg. Co. ("American," "American, Jr.," "Royal," "Royal 1900 Ball Joint," "Royal, Jr.," "Pnevent," "New Royal," "Royal Key," "Royal School Valve"), Syracuse, N. Y.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Powell, Wm. Co., 2529 Spring Garden av, Cin. Q. M. S. Co., Plainfield, N. J. Cincinnati, O.
Rensselaer Mfg. Co., Troy, N. Y.

Roberts Brass Mfg. Co., Detroit, Mich.
Schaeffer & Budenberg Mfg. Co. (Radiator Air), 963 Kent av, Brooklyn, N. Y.
Simplex Valve & Meter Co. (Automatic for Water Main), 112 N Broad, Phila., Pa.
Smith, H. B. Co. ("Breckenridge"), Westfield, Mass., & 39 E Houston, New York
Thompson, J. & Co. (Poppet), c Van Horn & Sophia, Phila., Pa.

Walworth Mfg. Co., 132 Federal, Boston, Mass.
Whitcomb, Geo. D. Co., Rochelle, Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

***Valves (Air Discharge, Pressed Steel)**
PRESSED STEEL TANK CO. (For Blowing Engines & Compressors), Milwaukee, Wis. (See adv. index, end of book)
Valves (Air, for Coal Mines)
Kelly & Jones Co., 135 Water, Pittsburgh, Pa.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valves (Altitude Controlling)
Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton bldg, Pittsburgh, Pa.
Simplex Valve & Meter Co. (For Controlling the Level of Water in Reservoirs, Stand Pipes & Railroad Tanks), 112 N Broad, Phila., Pa.

Valves (Ammonia)
American Valve Co., Coxsackie, N. Y.
Arctic Ice Machine Co., Canton, O.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Chapman Valve Mfg. Co., Indian Orchard, Mass.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index, end of book)
Darling Pump & Mfg. Co., Williamsport, Pa.
Featherstone Foundry & Machine Co. (High Grade Semi-Steel), 348 Halsted, Chicago, Ill.

FOSTER ENGINEERING CO., (Pressure), 119 Monroe, Newark, N. J. (See adv. index, end of book)
Great Lakes Engineering Works, Detroit, Mich.
Kennedy Valve Mfg. Co., Elmira, N. Y.
Ludlow Valve Mfg. Co., Troy, N. Y.
MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
Triumph Ice Machine Co., 610 Baymiller, Cincinnati, O.
Vogt, Henry Machine Co., Louisville, Ky.
Wolf, Fred W. Co. (Angle, Check, Globe, Plug, Expansion Gate & Steep Tank), 139 Rees, Chicago, Ill.

WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valves (Angle)
(See Valves, Globe & Angle)
Valves (Anti-Freezing)
Zero Valve & Brass Mfg. Co., Buffalo, N. Y.

Valves (Asbestos Packed)
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Fairbanks Co., 186 Lafayette, New York
Pratt & Cady Co., Hartford, Conn.

Valves (Automatic Air)
(See Valves, Air)
Valves (Back Pressure)
Acton, John, 118 John, Brooklyn, N. Y.
American District Steam Co., Lockport, N. Y.
Atwood & Morrill ("XX" Century), Salem, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Best Mfg. Co., 25th & A. V. Ry., Pittsburgh, Pa.

BLAKE, GEO. F. MFG. CO., 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
Buckeye Iron & Brass Works, Dayton, O.
Burrows Mfg. Co., York, Pa.
Coldwell-Wilcox Co., Newburgh, N. Y.
Consolidated Engineering Co. ("Van Auken"), cor. Jackson & Canal, Chicago, Ill.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
Davis, Geo. M. Regulator Co., 144 Milwaukee av, Chicago, Ill.
Eastwood Wire Mfg. Co., Belleville, N. J.
Edwardsville Brass Co., Edwardsville, Ill.
Erwin & Welch (Air & Water), 35 S Canal, Chicago, Ill.

Fairbanks Co. ("Pratt-Cady"), 186 Lafayette, New York
Ford, Thomas P. Co., 407 Broome, New York
FOSTER ENGINEERING CO., (For Heating Systems), 119 Monroe, Newark, N. J. (See adv. index, end of book)
General Fire Extinguisher Co., Providence, R. I.
Goodrich, Judson A. Co. (Mfrs.' Agts.), 105 Beekman, New York
Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Hughson Steam Specialty Co. ("Eclipse"), 5021 S State, Chicago, Ill.
Hussey, McCann & Co., 87 Warren, New York
Illinois Malleable Iron Co., 515 Diversey boul., Chicago, Ill.

Jenkins Bros. ("Excelsior"), 71 John, New York
Kelly & Jones Co., 135 Water, Pittsburgh, Pa.
Kieley & Mueller, 34 W 13th, New York
Klipfel Mfg. Co. ("K. & T."), 44 N Carpenter, Chicago, Ill.
KNOWLES STEAM PUMP WORKS, 115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
Locke Regulator Co., Salem, Mass.
McGowan, John H. Co., Cincinnati, O.
Milwaukee Valve Co. ("M"), Milwaukee, Wis.

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
Pratt & Cady Co., 556 Capitol, Hartford, Conn.
Reliance Engineering Co., Duluth, Minn.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.

Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Stephens, Roe Mfg. Co. ("Scott"), 1072 McKinley av, Detroit, Mich.
Thomas Brass & Iron Co., Wankegon, Ill.
Williams, D. T. Valve Co., 410 E 8th, New York

Valves (Back Water & Sewer Gas)
Barrett, Jas., Mfg. Co., 211 Franklin, Boston, Mass.
Kennedy Valve Co. ("Pennie"), Elmira, N. Y.
Robertson, John & Co. ("Pennies"), 127 Water, Brooklyn, N. Y.

Valves (Balance)
Acton, John, 118 John, Brooklyn, N. Y.
American Balance Valve Co. (High Pressure), Jersey Shore, Pa.
Atwood & Morrill ("Lever"), Salem, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bridgman Bros. Co. (Brass), 1422 Washington av, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Davis, G. M. Regulator Co. (Steam, Air & Water), 144 Milwaukee av, Chicago, Ill.

Dow, Geo. E. Pumping Engine Co., 179 1st, San Francisco, Cal.
FOSTER ENGINEERING CO. (Leer), 119 Monroe, Newark, N. J. (See adv. index, end of book)
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
Hammett, M. C. ("Richardson" & "Allen-Richardson" Locomotive), Troy, N. Y.
Harris, Arthur & Co. ("Harris"), 44 N Curtis, Chicago, Ill.
Klipfel Mfg. Co. ("K. & T."), 44 N Carpenter, Chicago, Ill.

Locke Regulator Co., Salem, Mass.
Mason Regulator Co., 153 Summer, Boston, Mass.



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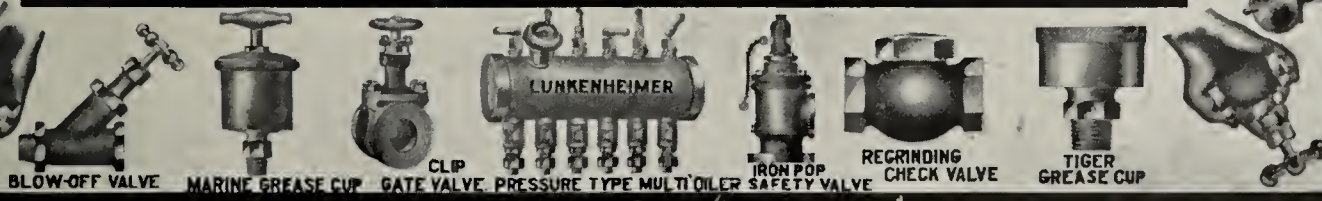
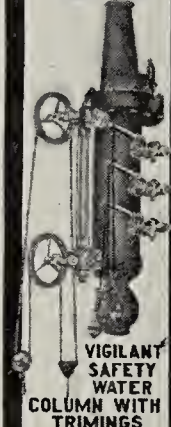
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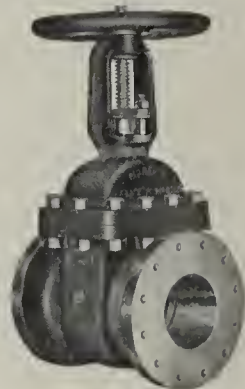
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 Schutte & Koertling Co., 1251 N 12th, Phila., Pa.
 Spencer Regulator Co. ("Spencer"), Salem, Mass.
 Stephens, Roe Mfg. Co., Detroit, Mich.
 Waters Governor Co., Everett, Mass.
WOODS VALVE & MACHINE CO. ("Non-Leather"), Steubenville, O. (See adv. index, end of book)

*Valves (Balanced Lever)

GARDNER GOVERNOR CO. (For Steam Pumps), Quincy, Ill. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index, end of book)

Valves (Ball)

Darling Pump & Mfg. Co., Williamsport, Pa.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index, end of book)
 Williams, D. T. Valve Co., 410 E 8th, New York

Valves (Bicycle Tire)

(See also Valves, Motor Tire)

Schrader's, A. Son (Inc.) ("Schrader"), 30 Rose, New York

Valves (Blast Furnace)

Hartman Co., 1231 N Front, Phila., Pa.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av Pittsburgh, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index, end of book)

Valves (Blast & Gas)

Best Mfg. Co., 25th & A. V. Ry, Pittsburgh, Pa.
 Chapman Valve Mfg. Co., Indian Orchard, Mass.
 Connersville Blower Co., Connersville, Ind.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
 Morgan Construction Co., Worcester, Mass.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index, end of book)
 Roots, P. H. & F. M. Co., Connersville, Ind.
 Weimer Machine Works Co., Lebanon, Pa.

*Valves (Blind)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Valves (Blow-off)

Bashlin Co., Warren, Pa.
 Belfield, M. & Co., 435 N Broad, Phila., Pa.
 Best Mfg. Co. ("Myers"), 25th & A. V. Ry, Pittsburgh, Pa.
 Bonner, Wm. T. Co. ("Freeport"), 246 Summer, Boston, Mass.
 Bordo, L. J. Co (Inc.), (for Locomotives), 12th & Thompson, Phila., Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Cadman, A. W. Mfg. Co. (High Pressure), etc., 2814 Smallman, Pittsburgh, Pa.
 Caskey Valve Co. (High Pressure), 99 John, New York
 Chapman Valve Mfg. Co., Indian Orchard, Mass.
 Chester Engineering & Machine Co., Chester, Pa.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO. ("Johnston"), 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
 Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
 Eastwood Wire Mfg. Co. (For Digesters, etc.), Belleville, N. J.

Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa., & 107 Liberty, New York
 Fairbanks Co. ("Pratt-Cady"), 416 Broome, New York
 Golden-Anderson Valve Specialty Co. ("Golden"), Fulton bldg, Pittsburgh, Pa.
 Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.
 Homestead Valve Mfg. Co., Homestead, Pa.
 Huxley Valve Co. ("Huxley" Ball Cock), 281 Chicago, Buffalo, N. Y.
 Jenkins Bros., 71 John, New York
 Ferguson Mfg. Co. ("Freeport"), 221 Columbus av, Boston, Mass.
 Kelly & Jones Co., 135 Water, Pittsburgh, Pa.
LAWRENCEVILLE BRONZE CO. ("Robertson"), 31st & Peun av, Pittsburgh, Pa. (See adv. index, end of book)
 Liberty Mfg. Co. ("Faber," Self-Cleaning), 6907 Susquehanna, Pittsburgh, Pa.
 Lloyd Mfg. Co. ("R. C."), Minneapolis, Minn.
LUNKENHEIMER CO. ("Duro" Locomotive Angle), General Offices & Works, Beekman & Waverly, Cincinnati, Ohio. (See adv. index & branch offices, end of book)
 Monarch Machine Works ("Riggin"), Altoona, Pa.

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

National Supply Co. ("Shaw"), Toledo, O.
 National Tube Co. (Iron Body), Pittsburgh, Pa.
 Patterson-Allen Engineering Co. ("Everlasting"), 2 Rector, New York

PITTSBURGH GAGE & SUPPLY CO. ("Clean Seat"), 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index, end of book)
 Pittsburgh Valve & Fittings Co., Pittsburgh, Pa.
 Powell, Wm. Co. ("Cyclone"), 2525 Spring Grove av, Cincinnati, O.

Queen City Brass & Iron Works ("Hesterberg"), Spring Grove & Girard av, Cincinnati, O.

Schutte & Koertling Co., 1251 N 12th, Phila., Pa.

SIMMONS, JOHN CO. ("Rothschild"), 104-110 Centre, New York. (See adv. index, end of book)

Tranter Mfg. Co. ("Robertson"), Pittsburgh, Pa.

Watson & McDaniel Co. ("W. & McD."), Straightway, 146 N 7th, Philadelphia, Pa.
 Wickes Bros., Saginaw, Mich.
 Williams, D. T. Valve Co., 410 E 8th, New York
 Williams Gauge Co., Pittsburgh, Pa.

Valves (Boiler Feed)

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.
 Golden-Anderson Valve Specialty Co. ("Anderson" Cushioned Check), Fulton bldg, Pittsburgh, Pa.
 Knapp Bros. Mfg. Co. ("Knapp's" Automatic), 123 Franklin, Chicago, Ill.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index, end of book)
 Williams, D. T. Valve Co., 410 E 8th, New York

Valves (Boiler Stop)

Darling Pump & Mfg. Co., Williamsport, Pa.
 Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton bldg, Pittsburgh, Pa.
 New Bedford Boiler & Machine Co., New Bedford, Mass.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index, end of book)
 Williams, D. T. Valve Co., Cincinnati, O.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valves (Butterfly)

Best Mfg. Co., 25th & A. V. Ry, Pittsburgh, Pa.
 Buckeye Iron & Brass Works, Dayton, O.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry, Pittsburgh, Pa. (See adv. index, end of book)

Valves (By-Pass)

Ford, Thos. P. Co., 407 Broome, New York

Valves (Check)

Acton, Jno. (Boiler Automatic Stop-off), 118 John, Brooklyn, N. Y.
 Albany Steam Trap Co., Albany, N. Y.
 American Valve Co., Cossackie, N. Y.
 American Valve & Meter Co., 1119 Gest, Cincinnati, O.
 Baker-Churchill-Lee Co. ("Lee" Ball), DeBashlin Co., Warren, Pa.
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Belknap Mfg. Co., Bridgeport, Conn.
 Best Mfg. Co. ("Climax"), 25th & A. V. Ry, Pittsburgh, Pa.
BLAKE, GEO. F. MFG. CO., 115 B'way, New York. Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)
 Buckeye Iron & Brass Works, Dayton, O.
 Chapman Valve Mfg. Co., Indian Orchard, Mass.

Coffin Valve Co., Neponset, Boston, Mass.
 Coldwell-Wilcox Co., Newburg, N. Y.

CORNELL & UNDERHILL, 47 Beach New York. (See adv. index, end of book)
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co., Bridgeport, Conn.
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Davis, G. M. Regulator Co. (Auto), 144 Milwaukee av, Chicago, Ill.

DEANE STEAM PUMP CO., 115 B'way, New York. Works: Holyoke, Mass. (See adv. index & branch offices, end of book)

Detroit Brass Works, Detroit, Mich.
 Draper Mfg. Co. (Ball Check), Port Huron, Mich.

Eastwood Wire Mfg. Co. (Regrinding), Belleville, N. J.

Eddy Valve Co., Waterford, N. Y.
 Evans Mfg. Co., Butler, Pa.
 Eynon-Evans Mfg. Co. (Extra Heavy), 1509 Clearfield, Phila., Pa.

Fairbanks Co. ("Pratt-Cady"), 186 Lafayette, New York
 Fewlass-Leen Brass & Iron Co., 456 E 2d, Cincinnati, O.

FOSTER ENGINEERING CO., (Automatic Non-Returning), 119 Monroe, Newark, N. J. (See adv. index, end of book)

French Oil Mill Machinery Co., Piqua, O.
 General Fire Extinguisher Co., Providence, R. I.
 Golden-Anderson Valve Specialty Co., Fulton bldg., Pittsburgh, Pa.

Haines, Jones & Cadbury Co., 1140 Ridge av, Phila., Pa.

Hancock Inspirator Co., The, 85 Liberty, New York
 Hayden & Derby Mfg. Co. (Swing), 85 Liberty, New York

Haydenville Co., Haydenville, Mass.
 Hennebohle, Frank (Automatic), Chicago & Erie avs, So. Chicago, Ill.

Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.
 Hoffman & Billings Mfg. Co., Milwaukee, Wis.

Homer Brass Works (Inc.), 231 Race, Phila., Pa.
 Illinois Malleable Iron Co., 515 Diversey boul, Chicago, Ill.

Jarecki Mfg. Co., Erie & Pittsburgh, Pa.
 Jenkins Bros., 71 John, N. Y.; 35 High, Boston, Mass.

Kelly & Jones Co., 135 Water, Pittsburgh, Pa.
 Kennedy Valve Mfg. Co. ("Swinging"), Elmira, N. Y.

Kinsey & Mahler Co. ("K. & M."), Peoria, Ill.

KNOWLES STEAM PUMP WORKS, 115 B'way, New York. Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

Libby Valve & Packing Co., Natick, Conn.
 Locke Regulator Co., Salem, Mass.
 Loneragan, J. E. & Co., 211 Race, Phila., Pa.

Ludlow Valve Mfg. Co., Troy, N. Y.
LUNKENHEIMER CO. (Ball & Swing), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McDonald, A. Y., & Morrison Mfg. Co., Duquesne, Ia.

McMANN & TAYLOR ("Acorn"), 104 John, New York. (See adv. index, end of book)

McNab & Harlan Mfg. Co., 56 John, New York
 Milwaukee Valve Co. ("M"), Milwaukee, Wis.
 Mueller Mfg. Co., Decatur, Ill.

National Tube Co. (High Duty, Steam, Metal, "Kewanee" Union), Pittsburgh, Pa.
 Nelson, Chas., 439 E 10th, New York
 Nelson, N. O. Mfg. Co. ("Reid"), St. Louis, Mo.

Nelson Valve Co. (Brass & Iron), Wyndmoor, Pa.
New Bedford Boiler & Machine Co., New Bedford, Mass.
Nolte Brass Co., Springfield, O.
Ohio Brass Co., Mansfield, O.

OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
Peck Bros. Co., 125 Chestnut, New Haven, Conn. (See adv. index, end of book)

PITTSBURGH GAGE & SUPPLY CO.,
30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
Pittsburg Valve & Fittings Co., Pittsburgh, Pa.

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Powell, Wm. Co. ("Star," "Crescent"), 2529 Spring Grove av., Cincinnati, O.

Queen City Brass & Iron Works, Spring Grove & Garrard avs., Cincinnati, O.
Rensselaer Mfg. Co., Troy, N. Y.

Rundle-Spencer Mfg. Co., 63 2d, Milwaukee, Wis.

Schutte & Koerting Co. (& Auto Stop Check), 1251 N 12th, Phila., Pa.
Springfield Brass Co., Springfield, O.

Stephens, Roe Mfg. Co. ("Flower," "Scott," "Rouse"), Detroit, Mich.

Thomas Brass & Iron Co., Waukegan, Ill.

Thompson, J. & Co., cor Van Horn & Sophia, Philadelphia, Pa.

Walch & Wyeth, 87 E Lake, Chicago, Ill.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

WORTHINGTON. HENRY R., 115
B'way, New York. (See adv. index & branch offices, end of book)

Valves (Chimney)

Hartman Co. (For Blast Furnace), 1231 N Front, Phila., Pa.

Valves (Chronometer)

Kelly & Jones Co. ("Empire"), 135 Water, Pittsburg, Pa.

UNION WATER METER CO., Wor-
cester, Mass. (See adv. index, end of book)

Valves (Closet Flushing)

(See Valves, Flushing)

Valves (Coke Oven)

(See Valves, Gas & Coke Oven)

Valves (Corner)

Buckeye Iron & Brass Wks. (With or Without Jenkins Disc), Dayton, O.

GORTON & LIDGERWOOD CO., 96
Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)

Kennedy Valve Mfg. Co. (Renewable Disc), Elmira, N. Y.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

*Valves (Critchlow)

MORGAN ENGINEERING CO., Alli-
ance, O. (See adv. index & branch offices, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Valves (Diaphragm Reducing)

Watson & McDaniel Co. ("Watson"), 146 N 7th, Phila., Pa.

Valves (Emergency)

National Brake & Electric Co. ("National" Air Brake for Electric Cars), Milwaukee, Wis.

Valves (Eurema "Y")

National Tube Co. (Iron Body), Pittsburg, Pa.

Valves (Exhaust)

Best Mfg. Co., 25th & A. V. Ry., Pittsburg, Pa.

BLAKE, GEO. F. MFG. CO. (Exhaust Relief), 115 B'way, New York Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

FOSTER ENGINEERING CO. (Free Exhaust), 119 Monroe, Newark, N. J. (See adv. index, end of book)

KNOWLES STEAM PUMP WORKS (Exhaust Relief), 115 B'way, New York Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

MEAD-MORRISON MFG. CO. ("Three-Way"), Cambridge, Boston, Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Nelson Valve Co., Wyndmoor, Pa.

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Valves (Fibre)

(See also Fibre Manufacturers, Hard)

AMERICAN VULCANIZED FIBRE Co. (Vulcanized), Wilmington, Del. (See adv. index, end of book)

DELAWARE HARD FIBRE CO., Wil-
mington, Del. Works, Marshalltown, Del. (See adv. index, end of book)

DIAMOND STATE FIBRE CO., El-
more, Del. (See adv. index, end of book)

Spaulding, J. & Sons Co., Rochester, N. Y.

WILMINGTON FIBRE SPECIALTY Co. (Vulcanized), Wilmington, Del. (See adv. index, end of book)

Valves (Fire Extinguisher)

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Valves (Float)

American Valve & Meter Co. ("Poage's"), 1119 Gest, Cincinnati, O.

Butler Co., Butler, Ind.
CALDWELL, W. E. CO., Brook & D., Louisville, Ky. (See adv. index, end of book)

Davis, G. M. Regulator Co. ("Davis"), 144 Milwaukee av., Chicago, Ill.

Eddy Valve Co. (Automatic Balance), Waterford, N. Y.

FAIRBANKS, MORSE & CO., Wa-
bash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

FOSTER ENGINEERING CO. (Aux-
iliary & Direct Acting Type), 119 Mon-roee, Newark, N. J. (See adv. index, end of book)

Foster, F. W. Mfg. Co. ("Nev-R-Lek"), Boston, Mass.

Golden-Anderson Valve Specialty Co. ("Anderson" Automatic), Fulton bldg, Pittsburg, Pa.

Hayes Pump & Planter Co. ("The Enterprise"), Galva, Ill.

Lavigne Mfg. Co. (Gasoline), Detroit, Mich.

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Schaeffer & Budenberg Mfg. Co. (For Reservoirs), 963 Kent av., Brooklyn, N. Y.

Valves (Flushing)

Albany Brass & Iron Co., Albany, N. Y.

American Pin Co. (Syphon), Waterbury, Conn.

Boston Brass Co., 36 Oliver, Boston, Mass.

Central Brass Works, 322 W Pearl, Cincinnati, O.

Columbus Brass Co., Columbus, O.

Cooper, Wm. S. Brass Works ("Atavic"), 437 N 12th, Philadelphia, Pa.

Dalton-Ingersoll Co., 169 High, Boston, Mass.

Dececo Co. ("Carson N-B," "D-C"), 146 High, Boston, Mass.

Edwardsville Brass Co., Edwardsville, Ill.

Eljer Co. ("Eljer"), Cameron, W. Va.

Federal-Huber Co., Halsted & Fulton, Chicago, Ill., & 244 5th av., New York

Flush-O-Valve Co. ("Flush-O-Valve"), 45 W 34th, New York

Foster, F. W. Mfg. Co. ("Nev-R-Lek"), 6 Portland, Boston, Mass.

Haines, Jones & Cadbury Co., 1136 Ridge av., Philadelphia, Pa.

Haydenville Co., Haydenville, Mass., & 150 Nassau, New York

Heap, Wm. & Sons (Syphon), Grand Haven, Mich.

Homer Brass Works (Inc.), 231 Race, Philadelphia, Pa.

Humphreys Mfg. Co., Mansfield, O.

Ideal Mfg. Co., 546 Franklin, Detroit, Mich.

Jenkins Mfg. Co. ("Novio"), Bloomfield, N. J.

Keystone Sanitary Supply Co. ("Dr. Isago's"), Pittsburg, Pa.

Lipp, Louis Co., Mitchell av & B. & O. S. R. R. Tracks, Cincinnati, O., & 104 High, Bos-

ton, Mass.

McCambridge & Co., Phila., Pa.

McDonald, A. Y. & Morrison Mfg. Co., Du-

buque, Ia.

Monarch Brass Co. ("Monarch" Gravity), Cleveland, O.

Mott, J. L. Iron Works, 118 5th av., New York

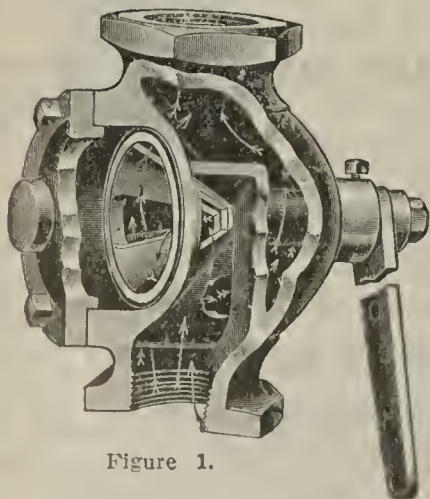


Figure 1.

UNION WATER METER CO.,

Worcester, :: Mass.

Chronometer Valves,
Steam Fire Alarm Gongs,
Water Meters.

McMANN & TAYLOR

Wrought and Cast Iron Pipe & Fittings
Boiler Tubes. Brass and Iron Valves.

Steam and Water Specialties. Plumbers', Gas and Steam Fitters' Supplies.

CABLE ADDRESS
"PIPEMEN"

104 and 106 JOHN STREET, NEW YORK

Murphy Specialty Co. ("Murphy"), Milwaukee, Wis.

Nelson, N. O. Mfg. Co., St. Louis, Mo.
Park & McKay Co., 55 Bagley av, Detroit, Mich.

Pasman, A. N. ("Crest"), 2 Foye pl, Jersey City, N. J.
Pfau Mfg. Co., Cincinnati, O.

Phillips Flushing Tank Co. ("Boston"), 66 Battery March, Boston, Mass.

Quinn Supply Co. ("Quinn"), 120 S Western av, Chicago, Ill.

Sautas Mfg. Co. ("Sanitas"), 54 Union, Boston, Mass.

SIMMONS, JOHN CO., ("Rothschild")
Flushometer), 104-110 Centre, New York.
(See adv. index, end of book)

Springfield Brass Co., Springfield, Mass.

Standard Sanitary Mfg. Co., Pittsburgh, Pa.

Street & Kent Mfg. Co., 43 Fulton, Chicago, Ill.

Valves (Foot)

ABENDROTH & ROOT MFG. CO.
(Galvanized Flanged), Newburgh, N. Y.
(See adv. index & branch offices, end of book)

AMERICAN WELL WORKS, Aurora, Ill.
(See adv. index & branch offices, end of book)

Baker-Churchill-Lee Co. ("Lee"), 907 Michigan av, Detroit, Mich.

Belfield, H. & Co., 435 N Broad, Phila., Pa.

Best Mfg. Co., 25th & A. V. Ry., Pittsburgh, Pa.

Billings & Hoffman Mfg. Co., Milwaukee, Wis.

BLAKE, GEO. F. MFG. CO., 115
B'way, New York; Works: East Cambridge, Mass.
(See adv. index & branch offices, end of book)

Bourbon Copper & Brass Works, 618 E Front, Cincinnati, O.

BROWN, A. & F. CO., (Newman)
Patent Continuous Service), 25 Dey, New York.
(See adv. index, end of book)

Buckeye Iron & Brass Works, Dayton, O.

Coffin Valve Co., Neponset, Boston, Mass.

Crane Co. (Est. 1855) 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)

Crane Valve Co., Bridgeport, Conn.

Darling Pump & Mfg. Co., Williamsport, Pa.

Eastwood Wire Mfg. Co., Belleville, N. J.

Eddy Valve Co., Waterford, N. Y.

Hoffmann, B. Mfg. Co., 257 6th, Milwaukee, Wis.

Illinois Malleable Iron Co., 515 Diversey boul, Chicago, Ill.

Kelly & Jones Co. (Iron), 135 Water, Pittsburgh, Pa.

KNOWLES STEAM PUMP WORKS,
115 B'way, New York; Works: East Cambridge, Mass. (See adv. index & branch offices, end of book)

LUNKENHEIMER CO., General Office & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

National Tube Co. (Iron Body), Pittsburgh, Pa.

Newman Mfg. Co. ("Newman" Continuous Service), 26 Cortlandt, New York

Pancoast, H. B. & Co. (Combined Foot Valve & Strainer), 243 S 3d, Phila., Pa.

PITTSBURGH GAGE & SUPPLY CO.,
30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Stephens-Roe Mfg. Co. ("Flower"), Detroit, Mich.

Thompson, J. & Co., cor Van Horn & Sophia, Philadelphia, Pa.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

WORTHINGTON HENRY R., 115
B'way, New York. (See adv. index and branch offices, end of book)

Valves (Gas Log)

Crane Valve Co. (Brass), Bridgeport, Conn.

Valves (Gas Main)

Bate, Wm. T. & Son, Conshohocken, Pa.

Beaumont, Richard (Est. of), Kankakee, Ill.

Bowler Foundry Co., Cleveland, O.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

CORNELL & UNDERHILL, 47 Beach,
New York. (See adv. index, end of book)

Crane Co. (Est. 1855). (Iron & Brass), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Darling Pump & Mfg. Co. (Ltd.), Williamsport, Pa.

Eddy Valve Co., Waterford, N. Y.

Gas Machinery Co., Cleveland, O.

Hoffmann, B. Mfg. Co., Milwaukee, Wis.

Kennedy Valve Mfg. Co., Elmira, N. Y.

Kerr-Murray Mfg. Co., Fort Wayne, Ind.

Loetzer Valve & Mfg. Co. ("Loetzer Dual"), Monroeton, Pa.

Ludlow Valve Mfg. Co., Troy, N. Y.

McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)

MONARCH VALVE & MFG. CO.,
Warren, Mass. (See adv. index, end of book)

Nelson Valve Co., Wyndmoor, Pa. (book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Rensselaer Mfg. Co., Troy, N. Y.

Roberts Brass Mfg. Co., Detroit, Mich.

Stephens, Roe Mfg. Co., Detroit, Mich.

Thompson, J. & Co., Van Horn & Sophia, Phila., Pa.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Valves (Gas or Coke Oven)

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Crane Valve Co., Bridgeport, Conn.

Kennedy Valve Mfg. Co. (Light All Iron Gate with Steel Stem), Elmira, N. Y.

McNab & Harlin Mfg. Co., 56 John, New York

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Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

WOODS VALVE & MACHINE CO.,
Steubenville, O. (See adv. index, end of book)

Valves (Gas, Siemen)

Velte Foundry & Machine Co., Home & A. V. R. R., Pittsburgh, Pa.

Valves (Gate)

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American District Steam Co. (Packless Iron & Brass Body), Lockport, N. Y.

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 Capitol Brass Works ("Standard"), Detroit, Mich.
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 Nelson Valve Co. ("S. & B." Brass & Iron), Wyndmoor, Pa.
 Ohio Brass Co. ("Ohio" Bronze), Mansfield, O.
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 Kennedy Valve Co., Elmira, N. Y.
 Ludlow Valve Mfg. Co., Troy, N. Y.
 McLean, Jno., 440 Water, New York
McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)
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 Pittsburgh Mfg. Co. ("Ludlow"), 28th & Railroad, Pittsburgh, Pa.
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 Smith, A. P. Mfg. Co., Newark, N. J.
 Stephens, Roe Mfg. Co. ("Scott's" High Pressure, etc.), Detroit, Mich.
 Walworth Mfg. Co., 132 Federal, Boston, Mass.
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Lavigne Mfg. Co. (For Gasoline Engines), Detroit, Mich.
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 Buckeye Iron & Brass Works (With or Without Jenkins Disc), Dayton, O.
 Burlington Brass Works ("Kant Leek"), Burlington, Wis.
 Chapman Valve Mfg. Co., Indian Orchard, Coldwell-Wilcox Co., Newburgh, N. Y. Mass.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
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CROSBY STEAM GAGE & VALVE Co., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
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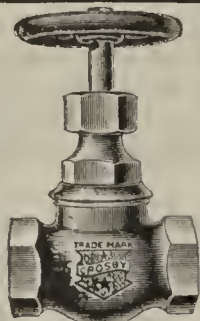
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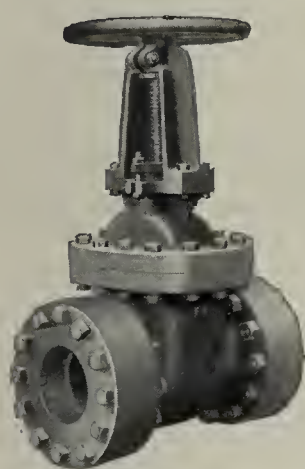
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Valves (Gulland Tank)

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Valves (High Pressure)

American Foundry & Const. Co. (Steam), Pittsburg, Pa.
 Caskey Valve Co., 99 John, New York

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 Eddy Valve Co., Waterford, N. Y.
 Ford, Thos. P. Co. (Balance Ball Cock), 407 Broome, New York
 Kennedy Valve Mfg. Co. (For Steam Service), Elmira, N. Y.
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 Nelson Valve Co., Wyndmoor, Pa.
 Rensselaer Mfg. Co., Troy, N. Y.
 Sherman, H. B. Mfg. Co., Battle Creek, Mich.
 Stephens, Roe Mfg. Co., Detroit, Mich.
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AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
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 Best Mfg. Co. ("Climax"), Pittsburg, Pa.
 Buckeye Iron & Brass Wks., Dayton, O.
 Burroughs, Chas. Co., Newark, N. J.
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 Chapman Valve Mfg. Co., Indian Orchard, Mass.
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 Davidson, M. T. ("Davidson," Three-Way Balanced), 43 Keap, Brooklyn, N. Y.
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 Eastwood Wire Mfg. Co. ("Eastwood"), Belleville, N. J.

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 Engberg's Electrical & Mechanical Works (Electro-Hydraulic, for Stand Pipes, etc.), St. Joseph, Mich.
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WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valves (Hydraulic Operating)

Morgan Construction Co., Worcester, Mass.
WOODS VALVE & MACHINE CO. ("Non-Leather"), Steubenville, O. (See adv. index, end of book)

Valves (Hydraulic Pulpit)

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 Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
WOODS VALVE & MACHINE CO. ("Non-Leather"), Steubenville, O. (See adv. index, end of book)

Valves (Indicator)

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Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

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Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

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Detroit Leather Specialty Co., Detroit, Mich.
Graton & Knight Mfg. Co., Worcester, Mass.
Houghton, E. F. & Co. ("Vim" Pump, etc.), 240 W. Somerset, Phila., Pa.
Nott, W. S. Co., Minneapolis, Minn.
Page Belting Co., Concord, N. H.

Valves (Lever)

FOSTER ENGINEERING CO. (Balance), 119 Monroe, Newark, N. J. (See adv. index, end of book)
LUNKENHEIMER CO. ("Handy"), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Nelson Valve Co., Wyndmoor, Pa.

Valves (Lock)

Emory, P. P. Mfg. Co. (For Rag Engines), Springfield, Mass.
Hill, E., Jr. (Automobile, "Hill"), South Norwalk, Conn.

Valves (Locomotive)

American Steam Gauge & Valve Mfg. Co. (Pop, Plain & Muffled), 208 Camden, Boston, Mass.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Bardo, L. J. Co. (Inc. ("B. O. Plug Blow-off")), 12th & Thompson, Phila., Pa.
Belfield, H. & Co. (Cylinder), 435 N Broad, Phila., Pa.
Best, W. N. American Caloric Co., 11 B'way, New York
Cadman, A. W. Mfg. Co. (Blow-Off), Pittsburgh, Pa.
Coale Muffler & Safety Valve Co., Fidelity bldg., Baltimore, Md.
Consolidated Safety Valve Co., The ("Consolidated" Pop Safety; also with Muffler Attached), 85 Liberty, New York
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index, end of book)
Hammett, M. C. (Balanced Slide), Troy, N. Y.
Homestead Valve Mfg. Co. (Blow-Off), Homestead, Pa.
Kunkle, E. B. & Co. Fort Wayne, Ind.
Lonergan, J. E. & Co. ("Glance" Triple-Seat Check; also Safety Valves), 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Ohio Brass Co., Mansfield, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

*Valves (Motor)

PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th and A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Valves (Motorman's)

National Brake & Electric Co. ("National" Air for Electric Cars), Milwaukee, Wis.

Valves (Motor Tire)

Eastern Auto Appliance Co., Journal bldg., Boston, Mass.
Milwaukee Rubber Works Co., Cudahy, Wis.
Schrader's, A. Son (Inc.), 30 Rose, New York

Valves (Mud)

Golden-Anderson Valve Specialty Co. ("Golden"), Fulton bldg., Pittsburgh, Pa.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Valves (Muffler)

Coale Muffler & Safety Valve Co., Fidelity bldg., Baltimore, Md.
Consolidated Safety Valve Co., The (Portable Muffler Pop Safety), 85 Liberty, New York
Lonergan, J. E. & Co., 211 Race, Phila., Pa.

Valves (Needle)

Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McRAE & ROBERTS CO., 227 Campbell av., Detroit, Mich. (See adv. index, end of book)

Valves (Non-Return)

Golden-Anderson Valve Specialty Co., Fulton bldg., Pittsburgh, Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Stephens, Roe Mfg. Co., Detroit, Mich.

Valves (Organ)

Homer Brass Works, 231 Race, Phila., Pa.

Valves (Piston)

American Balance Valve Co. ("American" Semi-Plug), Jersey Shore, Pa.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Tretlow, Samuel & Co. (Ltd.), 47th & Plummer, Pittsburgh, Pa.

Valves (Plug)

Cadman, A. W. Mfg. Co. (Split), Pittsburgh, Pa.
Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton bldg., Pittsburgh, Pa.
Loetzer Valve & Mfg. Co. (Steam, Gas, Air, Oil & Ammonia), Monroeton, Pa.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valves (Pop Safety)

Acton, Jno., 118 John, Brooklyn, N. Y.
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Buckeye Iron & Brass Works, Dayton, O.
Coale Muffler & Safety Valve Co., Fidelity bldg., Baltimore, Md.
Consolidated Safety Valve Co., The ("Consolidated"), 85 Liberty, New York
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
Detroit Lubricator Co. (Low Pressure), Detroit, Mich.
INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Kunkle, E. B. & Co. ("Kunkle" Lock-Up), 817 Barr, Ft. Wayne, Ind.
Lonergan, J. E. & Co. ("Linde's" & U. S. Government, Marine & Stationery Boilers), 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Michigan Lubricator Co. ("Michlgan"), Detroit, Mich.
NATIONAL GAUGE CO., 168 5th, Brooklyn, N. Y. (See adv. index, end of book)

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.
Scott Valve Co., 231 Randolph, Chicago, Ill.
Stephens, Roe Mfg. Co., Detroit, Mich.
Swift Lubricator Co., Elmira, N. Y.
Thomas Brass & Iron Co., Waukegan, Ill.
U. S. Gauge Co., 67 Wall, New York
Walworth Mfg. Co., 132 Federal, Boston, Mass.

Valves (Power House)

Golden-Anderson Valve Specialty Co., Fulton bldg., Pittsburgh, Pa.
Kennedy Valve Mfg. Co., Elmira, N. Y.
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Valves (Pressure Reducing)

Acton, John (Waterworks, Heavy Duty & Household Service, etc.), 118 John, Brooklyn, N. Y.
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Atwood & Morrill ("XXth Century"), Salem, Mass.
Consolidated Engineering Co. ("Van Auken"), cor Jackson & Canal, Chicago, Ill.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Davis, Geo. M. Regulator Co. (Reducing, Steam, Air & Water, 144 Milwaukee av., Chicago, Ill.)
D'Este, Julian Co., 24 Canal, Boston, Mass.
Eastwood Wire Mfg. Co., Belleville, N. J.
Eynon-Evans Mfg. Co., 1519 Clearfield, Phila., Pa., & 107 Liberty, New York
Fisher Governor Co., Marshalltown, Ia.
Ford, Thos. P. Co. (Steam & Water), 407 Broome, New York
FOSTER ENGINEERING CO. (For High & Low Pressure), 119 Monroe, Newark, N. J. (See adv. index, end of book)
Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton bldg., Pittsburgh, Pa.
Harlem Mfg. Co., 42 W 67th, N. Y.
Johnson Service Co. (Steam, Water, Air & Gas), Milwaukee, Wis.
Kieley & Mueller, 34 W 12th, New York
Kitts Mfg. Co. (Water), Oswego, N. Y.
Knapp Bros. Mfg. Co. ("Knapp's" Automatic), 123 Franklin, Chicago, Ill.
Leslie Co. (Inc.), ("Leslie"), Lyndhurst, N. J.
Locke Regulator Co. ("New Era" "Beats All"), Salem, Mass.
Lonergan, J. E. & Co. (Pressure), 211 Race, Phila., Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)
Mason Regulator Co., Boston, Mass.
Monash-Yunker Co. (Steam), 203 S Canal, Chicago, Ill.
New Bedford Boiler & Machine Co., New Bedford, Mass.
Ohio Brass Co. (All Bronze, Regulating for Steam), Mansfield, O.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th and A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)
Ross Valve Co., 6 Oakwood av., Troy, N. Y.
Schaeffer & Budenberg Mfg. Co. ("Simplex" "Farron"), 963 Kent av., Brooklyn, N. Y.
Standard Steam Specialty Co. ("Utility"), 542 W B'way, New York
Steam Appliance Co. ("Root"), Milwaukee, Wis.
Stephens-Roe Mfg. Co., Detroit, Mich.
STRONG, CARLISLE & HAMMOND CO. ("Squires"), 336-344 Frankfort av., N W, Cleveland, O. (See adv. index, end of book)
Waters Governor Co., Everett, Mass.
Watson & McDaniel Co. ("Watson," also "Watson" Spring Reducing, Low Pressure, Water & Atmospheric Reducing), 146 N 7th, Phila., Pa.

Valves (Pump)

(See also Valves, Rubber)

AMERICAN VULCANIZED FIBRE CO., Wilmington, Del. (See adv. index, end of book)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)

Athol Pump Co., Athol, Mass.
 Berger Bros. Co., 231 Arch, Phila., Pa.
 Black, W. B. Mfg. Co., New Philadelphia, O.
BOSTON BELTING CO. (Rubber), 260
 Devonshire, Boston, Mass., & 100 Reade,
 New York (See adv. index, end of book)
 Brandt, Randolph, 70 Cortlandt, New York
 Buckeye Iron & Brass Works, Dayton, O.
DELAWARE HARD FIBRE CO.
 (Hard Fibre), Wilmington, Del. Works.
 Marshalltown, Del. (See adv. index, end
 of book)
DIAMOND STATE FIBRE CO.
 (Fibre), Elsmere, Del. (See adv. index,
 end of book)
 Evans, Joseph, 23 Crittenden, Newark, N. J.
 Excelsior Valve Co., 108 Fulton, New York
 Jenkins Bros., 71 John, New York
**JOHNS-PRATT CO., THE ("Vulcables-
 ton")**, Hartford, Conn.
 O'Crowley, J. J. ("O'Crowley" Patent Detach-
 able), 45 Hudson, Jersey City, N. J.
OIL WELL SUPPLY CO., 215 Water,
 Pittsburg, Pa. (See adv. index, end of book)
PENNSYLVANIA RUBBER CO.
 ("Keystone," "Columbia," "Century,"
 "Pennsylvania," Hard & Soft Rubber),
 Jeannette, Pa. (See adv. index & branch
 offices, end of book)
PHOENIX SPECIALTY MFG. CO., 148
 Duane, New York. (See adv. index, end
 of book)
 Pontiac Leather Specialty Co., Pontiac, Mich.
 Power Specialty Co. (Armored), 111 B'way,
 New York
SAYEN, OSGOOD (Rubber), Arcade
 bldg, Phila., Pa. (See adv. index, end of
 book)
STRONG MACHINERY & SUPPLY CO.
 ("Strong's I. O. P." Oil Proof Pump Valves),
 48 Franklin, New York. (See adv. index,
 end of book)
 Ward & Upright Engineering Co. ("Kinghorn,"
 Multinlex), 41 York, Brooklyn, N. Y.
WILMINGTON FIBRE SPECIALTY
 Co. (Hard Fibre), Wilmington, Del. (See
 adv. index, end of book)

*Valves (Quick-Opening)

GORTON & LIDGERWOOD CO., 96
 Liberty, New York. & Fisher bldg, Chi-
 cago, Ill. (See adv. index, end of book)

Valves (Radiator)

Albany Steam Trap Co., 60 Church, Albany,
 American Valve Co., Coxsackie, N. Y. N. Y.
 American Radiator Co., 282 Michigan av, Chi-
 cago, Ill.
 American Steam Gauge & Valve Mfg. Co., 208
 Camden, Boston, Mass.
 Bashlin Co., Warren, Pa.
 Belfield, H. & Co. (Iron & Brass), 435 N Broad,
 Phila., Pa.
 Belknap Mfg. Co., Bridgeport, Conn.
 Blake & Andros ("B. & A."), Boston, Mass.

Buckeye Iron & Brass Works (With or With-
 out "Jenkins Disc"), Dayton, O.
 Capitol Brass Works ("Jenkins," "Disc,"
 Male & Female), Detroit, Mich.
 Chapman Valve Mfg. Co., Indian Orchard,
 Mass.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
 (See adv. index & branch offices, end of book)
 Crane Valve Co., Bridgeport, Conn.
 Crescent Brass & Pin Co., Detroit, Mich.
 Darling Pump & Mfg. Co., Williamsport, Pa.
 Detroit Brass Works, Detroit, Mich.
 Detroit Heating & Lighting Co., Wight nr
 Leib, Detroit, Mich.
 Detroit Lubricator Co. (Quick Opening & Inter-
 locking Steam "Detroit"), Detroit, Mich.
 Eastwood Wire Mfg. Co. ("Belleville"), Belle-
 ville, N. J.
 Exeter Machine Works, Exeter, N. H.
 Fairbanks Co. ("Pratt-Cady"), 186 Lafayette,
 New York
 Gold Car Heating & Lighting Co., 17 Battery
 pl. New York
GORTON & LIDGERWOOD CO., 96
 Liberty, New York. & Fisher bldg, Chi-
 cago, Ill. (See adv. index, end of book)
 Gurney Heater Mfg. Co., 188 Franklin, Boston.
 Haydenville Co., Haydenville, Mass.
 Hoffman, B. Mfg. Co. ("Judge"), Milwaukee,
 Wis.
 Jarecki Mfg. Co., Erie & Pittsburg, Pa.
 Jenkins Bros., 71 John, N. Y.; 35 High, Bos-
 ton, Mass.
 Kelly & Jones Co. ("Universal"), 135 Water,
 Pittsburg, Pa.
 Kennedy Valve Mfg. Co. (With Wood Wheels,
 etc.), Elmira, N. Y.
 Lavigne Mfg. Co. (Packless Steam), Detroit.
 Locke Regulator Co., Salem, Mass.
**LUNKENHEIMER CO. General Of-
 fices & Works, Beekman & Waverly, Cin-
 cinnati O. (See adv. index & branch of-
 fices, end of book)**
 McNab & Harlin Mfg. Co., 56 John, New York
 & Paterson, N. J.
 Milwaukee Valve Co. ("M"), Milwaukee, Wis.
MONARCH VALVE & MFG. CO.,
 Warren, Mass. (See adv. index, end of
 book)
 National Steam Specialty Co., 230 E Wash'n.
 Chicago, Ill.
 National Tube Co., Pittsburg, Pa.
 Ohio Brass Co. ("Ohio" Wood Wheel), Mans-
 field, O.
 Penn Engineering Co., 312 Cherry, Phila., Pa.
 Pierce, Butler & Pierce Mfg. Co., Syracuse,
 N. Y.
 Powell, Wm. Co. ("Crescent"), 2529 Spring
 Grove av, Cincinnati, O.
 Queen City Brass & Iron Works ("Hester-
 berg"), Cincinnati, O.
 Rensselaer Mfg. Co., Troy, N. Y.
 Schutte & Koerting Co., 1251 N. 12th, Philadel-
 phia, Pa.
 Smith, H. B. Co., 39 E Houston, New York

STEIN, HENRY, 46 Cliff, New York.
 (See adv. index, end of book)
 Stephens, Roe Mfg. Co. ("Scott" "Chicago"),
 Detroit, Mich.
 Syracuse Faucet & Valve Co., Syracuse, N. Y.
 Thermograde Valve Co. (Heat Regulating), 294
 Washington, Boston, Mass.
 Utica Steam Gauge Co. ("Pedal" "Woods"),
 Frankfort, N. Y.
 Walworth Mfg. Co., Boston, Mass.
 Williams, D. T. Valve Co., 410 E 8th, Cin-
 cinnati, O.

Valves (Radiator, Automatic Air)

(See Valves, Air)

Valves (Radiator, Back-Offset)
 Ohio Brass Co. ("Ohio" Wood Wheel), Mans-
 field, O.

Valves (Radiator, Corner)

Bashlin Co., Warren, Pa.
 Buckeye Iron & Brass Works (With or Without
 "Jenkins Disc"), Dayton, O.
 Capitol Brass Works ("Jenkins Disc," Male
 & Female), Detroit, Mich.
 Chapman Valve Mfg. Co., Indian Orchard,
 Mass.
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill.
 (See adv. index & branch offices, end of book)
 Crane Valve Co., Bridgeport, Conn.
 Eastwood Wire Mfg. Co. ("Belleville"), Belle-
 ville, N. J.
GORTON & LIDGERWOOD CO., 96
 Liberty, New York. & Fisher bldg, Chi-
 cago, Ill. (See adv. index, end of book)
**LUNKENHEIMER CO., General Of-
 fices & Works, Beekman & Waverly, Cin-
 cinnati, O. (See adv. index & branch of-
 fices, end of book)**
 Milwaukee Valve Co. ("M"), Milwaukee, Wis.
MONARCH VALVE & MFG. CO.,
 Warren, Mass. (See adv. index, end of
 book)
 National Tube Co., Pittsburg, Pa.
 Ohio Brass Co. ("Ohio" Wood Wheel), Mans-
 field, O.
 Powell, Wm. Co., Cincinnati, O.
 Queen City Brass & Iron W'ks, Cincinnati, O.
 Stephens, Roe Mfg. Co. ("Scott"), Detroit.
 Thermograde Valve Co. (Heat Regulating), 294
 Washington, Boston, Mass.

Valves (Radiator, Hot Water)

American Radiator Co., 282 Michigan av, Chi-
 cago, Ill.
 Buckeye Iron & Brass Works (With or Without
 "Jenkins Disc"), Dayton, O.
 Capitol Brass Works (Male & Female), De-
 troit, Mich.
 Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill.
 (See adv. index & branch offices, end of book)

IT SAVES COAL



The Gorton Quick Opening Steam Radiator Valve

One-third of a turn of the lever handle will open
or close the valve.

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GORTON & LIDGERWOOD CO., 96 Liberty Street, NEW YORK

Chapman Valve Mfg. Co., Indian Orchard, Mass.
Detroit Brass Works, Detroit, Mich.
Detroit Lubricator Co. ("Detroit"), Detroit, Mich.

Eastwood Wire Mfg. Co. ("Belleville"), Belleville, N. J.

Exeter Machine Co., Exeter, N. H., & 32 Oliver, Boston, Mass.

GORTON & LIDGERWOOD CO., 96 Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)

Lavigne Mfg. Co., Detroit, Mich.

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Milwaukee Valve Co. ("M"), Milwaukee, Wis.

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

National Tube Co., Pittsburgh, Pa.

Ohio Brass Co. ("Ohio" Wood Wheel, "Mackay"), Mansfield, O.

Penn Engineering Co., 312 Cherry, Phila., Pa.

Queen City Brass & Iron Works, Cincinnati, O.

STEIN, HENRY, 48 Cliff, New York. (See adv. index, end of book)

Stephens, Roe Mfg. Co. ("Chicago" Quick Opening), Detroit, Mich.

Syracuse Faucet & Valve Co., Syracuse, N. Y.

Thermograde Valve Co. (Heat Regulating), 294 Washington, Boston, Mass.

*Valves (Radiator, Steam & Hot Water)

GORTON & LIDGERWOOD CO., 96 Liberty, New York, & Fisher bldg, Chicago, Ill. (See adv. index, end of book)

Valves (Regrinding)

Buckeye Iron & Brass Works, Dayton, O.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)

National Tube Co. (Angle, Globe, Check & Gate), Pittsburgh, Pa.

Nelson Valve Co., Wyndmoor, Pa.

Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

Valves (Regulating)

(See Regulators, Pump)

Valves (Relief)

Acton, John (Atmospheric Exhaust, also Sensitive), 118 John, Brooklyn, N. Y.

All Metal Valve Co. (Automatic), 136 Liberty, New York

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

American Valve & Meter Co., Cincinnati, O.

Consolidated Safety Valve Co. ("Blackall" for Locomotives), 85 Liberty, New York

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co. (Automatic), Bridgeport, Conn.

Davidson, M. T. ("Davidson" Automatic Exhaust for Condensing Engines), 43 Kent, Brooklyn, N. Y.

Davis, Geo M. Regulator Co. (Open Air), 144 Milwaukee av., Chicago, Ill.

FOSTER ENGINEERING CO., (Air) Water, Steam & Atmospheric, 119 Monroe, Newark, N. J. (See adv. index, end of book)

Klipfel Mfg. Co. ("K. & T."), 44 N Carpenter, Chicago, Ill.

Locke Regulator Co. (Or Vacuum Breaker), Salem, Mass.

LUNKENHEIMER CO., General Offices & Works, Cincinnati, O. (See adv. index & branch offices, end of book)

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pittsburgh, Pa. (See adv. index, end of book)

Ross Valve Mfg. Co. (For Water Mains), Troy, N. Y.

Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

Schutte & Koerting Co., 1251 N. 12th, Phila., Pa.

Sturgess Engineering Dept. of Ludlow Valve Mfg. Co. ("Sturgess" Automatic), Troy, N. Y.

Wood, R. D. & Co., 400 Chestnut, Phila., Pa.

Valves (Renewable Seat)

Albany Steam Trap Co., Albany, N. Y.

Bashlin Co., Warren, Pa.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Eastwood Wire Mfg. Co. (Also Disc), Belleville, N. J.

Libby Valve & Packing Co., Natick, Conn.

LUNKENHEIMER CO. ("Renewo"). General Offices: Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)

Gas Machinery Co. (Gas), Cleveland, O.

Mesta Machine Co., Lewis bldg, Pittsburgh, Pa.

Morgan Construction Co. (Air or Gas), Worcester, Mass.

Sterritt-Thomas Foundry Co. ("Sieman"), 32nd & Smallman, Pittsburgh, Pa.

Wellman-Seaver-Morgan Co. (Porter, Water Sealed), Cleveland, O.

Valves (Reversing)

BOSTON BELTING CO., 260 Devon- shire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Canfield, H. O. Co., Bridgeport, Conn.

Consolidated Rubber Co., Trenton, N. J.

Continental Rubber Works, Erie, Pa.

Crescent Belting & Packing Co., Trenton, N. J.

CROSBY STEAM GAGE & VALVE Co. ("Braden"), 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

DIAMOND RUBBER CO., Akron, O. (See adv. index, end of book)

Elkhart Rubber Works, Elkhart, Ind.

Empire Rubber Mfg. Co., Trenton, N. J., & 60 Reade, New York

Excelsior Valve Co. ("Excelsior"), 106 Fulton, New York

Federal Rubber Co., Cudahy, Wis.

Goodrich, B. F. Co., Akron, O.

Gutta Percha & Rubber Mfg. Co., 126 Duane, New York

Hamilton Rubber Mfg. Co., Trenton, N. J.

Home Rubber Co., Trenton, N. J.

Johns-Manville Co., Hartford, Conn.

Manhattan Rubber Mfg. Co., 18 Vesey, New York, & Passaic, N. J.

Mechanical Rubber Co., 15 Reade, New York

Morgan & Wright (Inc.) (Marine, Pump, etc.), Detroit, Mich.

N. J. Car Spring & Rubber Co., Jersey City, N. J.

New York Belting & Packing Co. (Ltd.) (Pump & Ball), 91 Chambers, New York

New York Rubber Co., 84 Reade, New York

Peerless Rubber Mfg. Co., 16 Warren, New York

PENNSYLVANIA RUBBER CO., ("Keystone," "Columbia," "Century," "Pennsylvania," etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)

Revere Rubber Co., 77 Bedford, Boston, Mass.

SAYEN, OSGOOD ("Johnson" Vulcanite), Arcade bldg, Phila., Pa. (See adv. index, end of book)

Stokes, Jos. Rubber Co., Trenton, N. J.

STRONG MACHINERY & SUPPLY CO. ("Strong's" I. O. P. Oil Proof Pump Valves), 48 Franklin, New York. (See adv. index, end of book)

Thermoid Rubber Co., Trenton, N. J.

United & Globe Rubber Mfg. Co., Trenton, N. J.

Voorhees Rubber Mfg. Co., Jersey City, N. J.

Waterbury Rubber Mfg. Co., 75 Warren, New York

Western Rubber Works (Pump), Goshen, Ind.

Whitehead Bros. Rubber Co., Trenton, N. J.

Valves (Safety)

Am. Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.

Andrews Heating Co. ("Andrews" "Regurgitating"), 203 Hennepin av., Minneapolis, Minn.

Ashton Valve Co., 271 Franklin, Boston, Mass.

Belfield, H. & Co. (Brass or Iron), 435 N Broad, Phila., Pa.

Buckeye Iron & Brass Works, Dayton, O.

Canton Brass Co., Canton, O.

Conle Muller & Safety Valve Co., Baltimore, Md.

Crane Co. (Est. 1855), 519 S. Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Crane Valve Co., Bridgeport, Conn.

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass.; 16 Dey, New York (See adv. index & branch offices, end of book)

Eastwood Wire Mfg. Co. (Cross Safety), Belleville, N. J.

FOSTER ENGINEERING CO. (Auto- matic), 119 Monroe, Newark, N. J. (See adv. index, end of book)

Haydensville Co. (Roller), Haydensville, Mass.

Hoffmann, B. Mfg. Co., Milwaukee, Wis.

Hoffmann & Billings Mfg. Co., Milwaukee, Wis.

Illinois Malleable Iron Co., 515 Diversey Boul., Chicago, Ill.

INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Jarecki Mfg. Co., Erie & Pittsburgh, Pa.

Jenkins Bros., 71 John, New York

Kelly & Jones Co., 135 Water, Pittsburgh, Pa.

Kunkle, E. B. & Co., Fort Wayne, Ind.

Locke Regulator Co., Salem, Mass.

Loungan, J. E. & Co. (Spring Loaded), 211 Race, Philadelphia, Pa.

LUNKENHEIMER CO., General Of- fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McNah & Harlin Mfg. Co. (Brass Iron Body), 56 John, New York, & Paterson, N. J.

Melchior Lubricator Co., Detroit, Mich.

NATIONAL GAUGE CO. ("National"), 168 8th, Brooklyn, N. Y. (See adv. index, end of book)

National Tube Co., Pittsburgh, Pa.

OIL WELL SUPPLY CO., 215 Water, Pittsburgh, Pa. (See adv. index, end of book)

Powell, Wm. Co., Cincinnati, O.

Queen City Brass & Iron Works ("Hesterberg"), Sprung Grove & Garrard avs., Cincinnati, O.

Safety Cylinder Valve Co., Mansfield, O.

Schaeffer & Budenberg Mfg. Co. ("National," etc.), 963 Kent av., Brooklyn, N. Y.

Simplex Mfg. Co. ("Simplex" Range & Poller), 90 West, New York

Stephens, Roe Mfg. Co. ("Orme," "Scott"), Detroit, Mich.

Springfield Brass Co., Springfield, O.

Thomas Brass & Iron Co., Waukegan, Ill.

Wulworth Mfg. Co., 132 Federal, Boston, Mass.

***Valves (Screw Down Check)**

LUNKENHEIMER CO., General Of- fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pitts- burgh, Pa. (See adv. index, end of book)

Valves (Shower Bath)

Union Brass Works Co. ("Soderlund," Anti-scalding), Boston, Mass.

***Valves (Sight Feed)**

LUNKENHEIMER CO., General Of- fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Valves (Snifting)

Consolidated Safety Valve Co., The ("Consolidated" for the Ends of Cylinders on Steam Engines & Locomotives), 85 Liberty, New York

CROSBY STEAM GAGE & VALVE Co., 97 Oliver, Boston, Mass. (See adv. index & branch offices, end of book)

***Valves (Special Designs)**

LUNKENHEIMER CO., General Of- fices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. Ry., Pitts- burgh, Pa. (See adv. index, end of book)

WOODS VALVE & MACHINE CO., Stenbenville, O. (See adv. index, end of book)

Valves (Stand Pipe)

Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton Bldg., Pittsburg, Pa.
Simplex Valve & Meter Co. (Controlling Valves for Stand Pipes or Reservoirs), 112 N Broad, Phila., Pa.

Valves (Steam Air)

Chapman Valve Mfg. Co., Indian Orchard Mass
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
LUNKENHEIMER CO., General Offices & Works: Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Mackay Mfg. Co. ("Mackay" Automatic), 66 James, Newark, N. J.
Marsh, J. P. & Co., 224 Wash'n, Chicago, Ill.
MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
Nelson Valve Co., Wyndmoor, Pa. (book)
Stephens, Roe Mfg. Co., Detroit, Mich.

Valves (Steam Feed)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
Lufkin Foundry & Machine Co. ("Trout's"), Lufkin, Tex

*Valves (Steel)

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

Valves (Stop)

Acton, John (Safety), 118 John, Brooklyn, N. Y.
Albany Steam Trap Co., Albany, N. Y.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Bordo, L. J. Co. (Inc.) ("Bordo", Locomotive), 12th & Thompson, Phila., Pa.
Bourbon Copper & Brass Works, 618 E Front, Cincinnati, O.
Central Brass Mfg. Co. ("Cleveland" Compression Stop & Waste), Cleveland, O.
Coldwell-Wilcox Co., Newburgh, N. Y.
Coffin Valve Co., Somerset, Boston, Mass.
CORNELL & UNDERHILL, 47 Beach, New York. (See adv. index, end of book)
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Davis, G. M. Regulator Co. (Auto), 144 Milwaukee av, Chicago, Ill.
Eddy Valve Co., Waterford, N. Y.
Fairbanks Co., 186 Lafayette, New York.
FOSTER ENGINEERING CO. (Automatic Non-Return, etc.), 119 Monroe, Newark N. J. (See adv. index, end of book)
French Oil Mill Machinery Co., Piqua, O.
GARDNER GOVERNOR CO., Quincy, Ill. (See adv. index, end of book)
Golden-Anderson Valve Specialty Co. (Automatic), Fulton Bldg., Pittsburg, Pa.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Ludlow Valve Mfg. Co., Troy, N. Y.
LUNKENHEIMER CO. General Offices & Works, Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
New Bedford Boiler & Machine Co. (Also Automatic Stop), New Bedford, Mass.
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A V Ry., Pittsburg, Pa. (See adv. index, end of book)
Pratt & Cady Co., Hartford, Conn.
Rensselaer Mfg. Co., Troy, N. Y.
Schaeffer & Rudenberg Mfg. Co. (Nickel-Seated Iron & Steel), 963 Kent av, Brooklyn, N.Y.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Stephens, Roe Mfg. Co., Detroit, Mich.
Thompson, J. & Co., c Van Horn & Sophia, Philadelphia, Pa.
Uco Brass Mfg. Co. (& Waste), 2436 Brown, Phila., Pa.
Walworth Mfg. Co. (Automatic), Boston, Mass.
Whitcomb, Geo. D. Co. ("Whitcomb", For Copper & Other Mines), Rochelle, Ill.
Wood, R. D. & Co., 400 Chestnut, Phila., Pa.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valves (Straightway)

(See Valves, Gate)

Valves (Syphon)

Lipp, Louis Co. ("Boss" Double), Mitchell av. & B. & O., S. W. R. R., Cincinnati, O.

Valves (Tank)

American Valve & Meter Co., Cincinnati, O.
Boston Brass Co., 36 Oliver, Boston, Mass.
Edwardsville Brass Co., Edwardsville, Ill.
Exeter Brass Works, Exeter, N. H.
FAIRBANKS, MORSE & CO. (Railroad, Flush & Float), Wabash av & El dredge pl, Chicago, Ill. (See adv. index & branch offices, end of book)
Ford, Thomas P. Co. ("Ford" High Pressure), 407 Broome, New York
FOSTER ENGINEERING CO. (Steam & Water), 119 Monroe, Newark, N. J. (See adv. index, end of book)
Golden-Anderson Valve Specialty Co. ("Anderson"), Fulton Bldg., Pittsburg, Pa.
Nelson Valve Co., Wyndmoor, Pa.
Standard Brass & Iron Works (For Brewers, etc.), Milwaukee, Wis.
Waters Governor Co., Everett, Mass.

*Valves (Tanner Operating)

PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A V Ry, Pittsburg, Pa. (See adv. index, end of book)

Valves (Thermostat)

Acheson Mfg. Co., Rankin, Pa.
Pittsburg Brass Mfg. Co. Penn av & 32d, Pittsburg, Pa.
Reckets & Co. ("Reliable" Gas), Dayton, O.
Standard Heater Co., Pittsburg, Pa.

Valves (Throttle)

Belfield, H. & Co., 435 N Broad, Phila., Pa.
Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.
Detroit Lubricator Co. ("Detroit" "Pendry"), Detroit, Mich.
Eastwood Wire Mfg. Co., Belleville, N. J.
Hoffmann, B. Mfg. Co., Milwaukee, Wis.
Hoffmann & Billings Mfg. Co., Milwaukee, Wis.
Ide, A. L. & Sons ("Ideal"), Springfield, Ill.
LUNKENHEIMER CO. General Offices & Works, Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
Iarecki Mfg. Co., Erie & Pittsburg, Pa.
McNab & Harlin Mfg. Co. (Brass & Iron Body), 56 John, New York, & Paterson, N. J.
MEAD-MORRISON MFG. CO. (Straightway & Balance), Cambridge, Boston, Mass. (See adv. index & branch offices, end of book)
Mesta Machine Co., Lewis bldg, Pittsburg, Pa.
Michigan Lubricator Co. ("Michigan" Quick Opening, Detroit, Mich.
MONARCH VALVE & MFG. CO., Warren, Mass. (See adv. index, end of book)
New Bedford Boiler & Machine Co., New Bedford, Mass.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
PITTSBURGH VALVE, FOUNDRY & CONSTRUCTION CO., 26th & A V Ry., Pittsburg, Pa. (See adv. index, end of book)
Powell, Wm. Co. ("Star," "U. S.," "Ready"), 2529 Spring Grove av, Cincinnati, O.
Queen City Brass & Iron Works ("Hesterberg"), Cincinnati, O.
Reliance Engineering Co. (Holsting Engine, etc.), Duluth, Minn.
Schutte & Koerting Co., 1251 N 12th, Phila., Pa.
Stephens, Roe Mfg. Co. ("Goldsmith"), Detroit, Mich.
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valves (Tire)

Schrader's, A. Son (Inc.) ("Schrader" for Bicycles, Automobiles, etc.), 30 Rose, New York

Valves (Tubular Well)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
Mark Mfg. Co., Evanston, Ill.
National Tube Co., Pittsburg, Pa.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)

Valves (Tuyere)

Best Mfg. Co., Pittsburg, Pa.
LUNKENHEIMER CO., General Offices & Works: Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
PITTSBURGH GAGE & SUPPLY CO., 30th & Liberty av, Pittsburgh, Pa. (See adv. index, end of book)
WOODS VALVE & MACHINE CO., Steubenville, O. (See adv. index, end of book)

Valves (Underwriters' Water Relief)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

Valves (Universal)

Schrader's, A. Son, Inc. ("Schrader"), 30 Rose, New York

Valves (Vacuum, Automatic Air)

All Metal Valve Co., 136 Liberty, New York
Atwood & Morrill ("XX," "Century"), Salem, Mass.
Belfield, H. & Co., 435 N Broad, Phila., Pa.
Consolidated Engineering Co. ("Van Auken"), cor. Jackson & Canal, Chicago, Ill.
Klipfel Mfg. Co. ("K. & T."), 44 N Carpenter, Chicago, Ill.
Loetzer Valve Mfg. Co. (For Water Mains), Monroeton, Pa.
Monash-Younger Co. ("Perfected Duplex No. 7"), 201 S Canal, Chicago, Ill.
Schott Specialty Co. ("Duran" Automatic Vacuum Air Valve), American Trust bldg, Chicago, Ill.
Simonds Heating & Specialty Co. ("Simonds"), Detroit, Mich.

Valves (Vault)

Meerhoff, Herman H. (For Outdoor Closets with Sewer Connections), Richmond, Ind.

*Valves (Vulcabeston)

JOHNS-PRATT CO., THE, Hartford, Conn.

Valves (Water Relief)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
Ashton Valve Co., 271 Franklin, Boston, Mass.
Consolidate Safety Valve Co., The ("Consolidated" for Fire Pumps, Pumping Stations & Hydraulic Elevators, etc.), 85 Liberty, New York
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
Davis, Geo. M. Regulator Co. (Also Semi-Balanced Seated), 144 Milwaukee av, Chicago, Ill.
Davis & Roesch Temperature Controlling Co., Newark, N. J.
D'Este, Julian Co., 24 Canal, Boston, Mass.
Fairbanks Co. ("Pratt-Cady"), 416 Broome, New York
Kunkle, E. B. & Co., Fort Wayne, Ind.
Lonergan, J. E. & Co., 211 Race, Phila., Pa.
LUNKENHEIMER CO. General Offices & Works, Beckman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
McMANN & TAYLOR, 104 John, New York (See adv. index, end of book)
Powell, Wm. Co., Cincinnati, O.
Stephens, Roe Mfg. Co. ("Scott"), 1072 McKinley av, Detroit, Mich.
Walworth Mfg. Co., 132 Federal, Boston, Mass.
Watson & McDaniel Co., 144 N 7th, Phila., Pa.

Valves (Water Sealed)

Wellman-Seaver-Morgan Co. ("Forster"), Cleveland, O.

Valves (Whistle)

Buckeye Iron & Brass Works, Dayton, O.
Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
(See adv. index & branch offices, end of book)
Crane Valve Co., Bridgeport, Conn.

CROSBY STEAM GAGE & VALVE CO., 95
Oliver, Boston, Mass., & 16 Dey, New York.
(See adv. index & branch offices, end of book)
INDUSTRIAL INSTRUMENT CO.

(Electric), Foxboro, Mass. (See adv. index & branch offices, end of book)
Kelly & Jones Co., 135 Water, Pittsburg, Pa.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

PITTSBURGH VALVE, FOUNDRY & Construction Co., 26th & A. V. R'y, Pittsburgh, Pa. (See adv. index, end of book)
Powell, Wm. Co., 2529 Spring Grove av., Cincinnati, O.

Queen City Brass & Iron Works, Cincinnati, O.
Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.
Williams, D. T. Valve Co., 410 E 8th, Cincinnati, O.

*Valves & Bands (Water Pipe)

UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

Vanadium

(See Ferro, Vanadium)

*Vanadium-Copper

LEAVITT, C. W. & CO., 30 Church, New York. (See adv. index, end of book)

Vanners (Frue)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Chalmers & Williams, Commercial Natl. Bank bldg, Chicago, Ill.

Variable Speed Transmission

EVANS FRICTION CONE CO. ("Evans"), Newton Center, Mass. (See adv. index, end of book)

JAMES, D. & O. MFG. CO. (Speed Reducing Gears), 351 W Monroe, Chicago, Ill. (See adv. index, end of book)
Moore & White Co., 15th & Lehigh av., Philadelphia, Pa.

R-W Variator Co., 149 Broadway, New York
Reeves Pulley Co., Columbus, Ind.
Speed Changing Pulley Co., Anderson, Ind.
Variable Speed Clutch Co. (Air Controlled), Milwaukee, Wis.

Variators

American District Steam Co. (Single & Double Expansion), Lockport, N. Y.

Varnish (Armature & Field Coil)

(See Insulating Varnish)

Varnish Cloth

Imperial Varnish Works, Newark, N. J.

Varnish Gums

Anderson, Geo. & Co. (East India Gums), 100 William, New York
Bauer, Phillip Co. (Damar Gum), 68 Broad, New York

Elmenhorst & Co., 90 Wall, New York
Gillespie, L. C., & Sons (Importers), 8 Fletcher, New York

Kllpsteln, A. & Co. (Also Varnish Colors), 122 Pearl, New York

Olivier & Co., 166 Greene, New York
Paterson, Boardman & Co., 10 Bridge, New York

Peabody, Henry W. & Co., 17 State, New York
Riehe, Edgar C. & Co. (Australian Kauri Gums & Oxide of Manganese Dryers), 97 Warren, New York

Scheel, Wm. H. (Importer), 159 Maiden la, New York

Varnish Mfrs.

CALIFORNIA.

SAN FRANCISCO—Bass-Hueter Paint Co., 816 Mission

New Era Paint & Varnish Co., 20th & Minnesota

Tamm & Nolan Co., 151 Potrero av
Yates & Co., 762 Folsom

COLORADO.

DENVER—McMurtry Mfg. Co.

CONNECTICUT.

BRIDGEPORT—Crockett, D. B. Co.

Parrott Varnish Co., 453 N Wash av
EAST NORWALK—Vacuum Varnish & Chemical Co.

MIDDLETOWN—Smith, J. O. Mfg. Co.

NEW MILFORD—Bridgeport Wood Finishing Co.

NEW HAVEN—Booth & Law Varnish Co.

Copalline Mfg. Co. (for Oil Cloth)

STAMFORD—Celluloid Zapon Co. (Richards & Co., Prop.)

WATERBURY—Long Hill Varnish Works (Lewis W. Curtis, Prop.)

DELAWARE.

WILMINGTON—Bradford, James Co., 6 E 3d

ILLINOIS.

CHICAGO—American Varnish Co. (Railway Carriage & Cabinet), 315 N Branch
Armstrong Paint & Varnish Works, 1203 S Paulina

Atlantic Drier & Varnish Co., 40 Dearborn

Behlen, H. & Bro., 142 Monroe

Bereda Mfg. Co., 57 Illinois

Chicago Varnish Co., 855 Elston av

Chicago Wood Finishing Co., 259 Elston av

Crockett, David B. Co., 125 N Peoria

Crown Varnish & Enamel Co., 1181 N Seely

Day, James B., & Co., 245 E Illinois av

Elliott Varnish Co. ("Roof Leak"), 155 Fulton

Elmendorf Varnish Co., 38 Larrabee

Goldschmidt, Chas., 214 Illinois

Grace Varnish Co., 125 Larrabee

Graves, N. Z. & Co., 314 Fulton

Harrison Bros. & Co. (Inc.), 27 Lake

Illinois Varnish Co., 1509 N Lincoln

Martin, Senour Co., 2520 Quarry

Mather, John C., 6701 S. Morgan

Moller & Schumann Co., 52 W. Washington

Nikolas, G. J. & Co., 400 W. Van Buren

Nubian Paint & Varnish Co., 971 N. 51st av.

Palmer Price Co., 324 W Madison

Ruge, Ferdinand C., 783 N Avers av

Standard Varnish Works (Railroad, Marine, House, etc.), 2620 Armour av.

Stewart, Mowry Co., 3218 Shields av

Sullivan Varnish Co., 11 Hart

Thurston, F. W. & Co., 1834 Clark

Tousey Varnish Co., 279 Dearborn

Unkefer, Geo. R., Co., 91 Dearborn

Vilas Bros., 227 5th av

Washburn, Thos. F., 14 Lister av

Watson, Geo. E. Co., 108 Lake

Wheeler-Clough Co., 377 Illinois

Wood-Shine Co., 279 Dearborn

SPRINGFIELD—Surrey Varnish Co.

INDIANA.

EVANSVILLE—Indiana Color & Varnish Co.

INDIANAPOLIS—Indianapolis Varnish Co.

Lilly Varnish Co., Ohio & Pine

SOUTH BEND—O'Brien Varnish Co.

VALPARAISO—Parker, Chas. H. Co.

KENTUCKY.

LOUISVILLE—Louisville Varnish Co., Maple & 14th

LOUISIANA.

NEW ORLEANS—Union Varnish Co. (A. Riggs & Bro., Props.)

MAINE.

PORTLAND—Fuller, August P., Co.

MARYLAND.

BALTIMORE—Chesapeake Oil Co., Ostend & Stockholm

Macneal, Jas. B. & Co., Warner & Wooster

Poppeliu, G. & N., Jr., 220 North

MASSACHUSETTS.

BOSTON—Babcock, J. & Co., 86 Western av.

Babcock Varnish Co., 60 Pearl Alls.

Burbank & Ryder Co., 62 Alford, Chsn.

Farrington, C. E., 177 High

GILMAN, CHAS. H., 103 Merrimac

Kling, E. & F. & Co., 171 Milk

Massachusetts Chemical Co., 170 Summer

Poolman, Warren M., 116 Broad

Stickney, J. W. & Co., 31 Milk

Tremont Paint & Varnish Co.

Wadsworth, Howland & Co. (Inc.), 82 Wash-

Wiley, I. H. & Co., 69 Sudbury ington

CHELSEA—Miller, Lyman M. (Estate of)

EVERETT—Boston Varnish Co.

MIDDLEBORO—Shaw, Geo. H.

SPRINGFIELD—Hampden Paint & Chemical Co.

Wadsworth, Howland & Co.

WALPOLE—Massachusetts Chemical Co.

MICHIGAN.

DETROIT—Acme White Lead & Color Works,

c St. Aubin av & M. C. R. R.

Ambroid Lacker Co. (H. H. Baatz, Prop.), 215 Randolph

Berry Bros. (Ltd.), Leib & Wight

Detroit Varnish Co., 532 Milwaukee av.

Detroit White Lead Wks., 532 Milwaukee av.

Jageman, F. J., 2316 East Grand Boul

McLennan Paint Co. (Ltd.), 532 Milwaukee av.

McNamara Varnish Works, Clark av. & M. C. R. R.

Peninsular Paint & Varnish Co., St. Aubin & Clay avs.

Star Varnish Works, Whiting & M. C. R. R. Belt Line

Sunley Finish Color Co., 214 Cherry

FLINT—Flint Varnish Co.

PONTIAC—Price Varnish Co.

MINNESOTA.

ST. PAUL—Twinn City Varnish Co.

MISSOURI.

KANSAS CITY—Continental Varnish & Color Co.

ST. LOUIS—American Insulating Material Mfg. Co., 9 S. 3d

Gregg Varnish Co., 813 N 6th

Hoffman Varnish Co., 2702 S Jefferson av

Pratt & Lambert, 1015 Lucas av

Robbins, A. Varnish Co., 1537 N 8th

Vane-Calvert Paint Co., 1601 N B'way

Wellpott, Chas. H. W. Varnish Wks., 3220 N B'way

NEW JERSEY.

CAMDEN—Graves, N. Z. Co.

Schrack, C. & Co.

GIBBSBORO—Lucas, John & Co.

HARRISON—Walker Chemical Works

HOBOKEN—Hotoff Varnish Co.

JERSEY CITY—Empire Paint & Varnish Co., 14th & Erie

Gillespie, Chas. H. & Sons, 125 Dey

New Jersey Paint Works (Louderbough Hy., Prop.)

Woolsey, C. A. Paint & Color Co.

NEWARK—Anglo-American Varnish Co., 55 Johnson

Armitage, Jno. L. & Co., Thomas & Dawson

Beckwith-Chandler Co., 261 Emmett

Bigelow Varnish Co., 81 Oliver

Brooks, Clarence & Co., 249 Chestnut

Devoe, F. W. & C. T. Reynolds Co., 223 N.

Essex Varnish Co., 84 Vesey J. R. R. av

Flood & Conklin Co., 136 Chestnut

Hurl Mfg. Co., 350 Ogden.

Imperial Varnish Works

Mitchell-Mallon Co.

Murphy Varnish Co.

Newark Varnish Works, Delancy & Adams

Palmer Price Co., 270 Chestnut

Rice, S. E. M. Filler Co., 21 Abel

Stiles, Charles H., 139 E. Kinney

PLAINFIELD—Price-Bond Woolston Co.

NEW YORK.

BINGHAMTON—Collier, H. C. & Sons

BROOKLYN—(See New York City, Borough of Brooklyn)

BUFFALO—Buffalo Enamel & Stain Co., D. S. Morgan bldg

Buffalo Oil, Paint & Varnish Co., 1317 Elk

Century Mfg. Co., 272 W. Genesee

Century Varnish Co., 272 W Genesee

Columbia Paint & Varnish Co., 12 Sanford

McDougal Varnish Co., 1317 Elk

Mets, P. A., Paint Co., 769 Clinton

Pratt & Lambert, 79 Tonawanda

LONG ISLAND CITY—(See New York City, Borough of Queens)

When writing to firms listed in this book please mention HENDRICKS' COMMERCIAL REGISTER

NEW YORK CITY.

Borough of Brooklyn.

BROOKLYN—American Varnish Works, 425 Greenpoint av
Bartels, Otto, Stewart av nr Randolph
Bohner's, Jos. Sons, 1093 Met. av
Booden's, P. Son, 243 N 9th
Brooklyn Varnish Mfg. Co., 35 Nostrand av
Federal Varnish Co., 295 G'point av
Hildreth Varnish Co., 77 N 12th
Keystouc Varnish Co., 79 Otsego
King Paint Mfg. Co., 21 Dunham pl
Masury, John W. & Son, 50 Jay
Minett Varnish Co., 1046 Atlantic av
Moller & Schumann Co., Marcy & Flushing
Pierce, F. O. Co., 30 Tiffany pl
Travers Varnish Works, 81 Richardson
Valentine & Co., 364 Mhth av
Wood & Shepard Varnish Co., 33 Wythe av

Boroughs of Manhattan & Bronx.

NEW YORK—Alden, Geo. A. & Co. (Importers), 290 B'way
Atlantic Drier & Varnish Co., 1 Madison av
Beckwith-Chandler Co., 5th av & 32d
Behlen, Herman & Bro., 371 Pearl
Billings, King & Co., 438 Pearl
Calman, Emil & Co., 100 William
Carter, Chas. W. H., 8 Ferry
Celluloid Zapon Co., 310 4th av
Congress Varnish Works, 239 Front
Devoe, F. W. & C. T. Reynolds Co., 101 Fulton
Egyptian Lacquer Mfg. Co., 152 Front
Excelsior Varnish Works, 261 B'way
Federal Varnish Co., 299 B'way
Feigel, M. & Bro., 80 Houston
Harland, Wm. & Son, 168 Centre
Hildreth Varnish Co., 90 West
Hoople & Nichols, 250 Front
Kasebier, E. & Co., 175 Pearl
Longman & Martinez, 207 Pearl
Loudherack, A. E. (Importer), 118 Hudson
Mayer & Lowenstein, 164 Water
Maynz & Co. (Brewers' Varnish), 13 Water
Minett Varnish Co., 165 B'way
Mitchell-Mallon Co., 1648 B'way
Payson Varnish Co., 141 1st & Walnut av
Pierce, F. O. Co., 12 W B'way
Pomeroy & Fischer (Importers), 30 Frankfort
Reliance Varnish Works (S. S. Rosenbaum, Prop.), 382 Hudson
Rogers & Pyatt, 129 Front
Slee, J. Noah H., 42 B'way
Smith, Edw. & Co., 141 B'way
Standard Varnish Works (Railroad, Marine, House, etc.), 29 B'way
Stoeckel, Rudolph E., 2449 3d av
Thuebel, S. H., 130 Pearl
Tock Bros., 320 5th av
Valentine & Co., 257 B'way
Victorson Varnish Co., 100 William
Winn, Wm. R. (Oil), 143 Maiden lane
Zinsser, Wm. & Co., 197 William

Borough of Queens.

GLENDAL STATION—Lion Varnish Co.
LONG ISLAND CITY—Calman, Emil & Co.
Chase, Roberts & Co., c West av & 5th
Fenner, Geo. L., 8th & West
Mayer & Lowenstein, 164 Water
Liszka, Irma, Glendale, L. I.
Pratt & Lambert
Smith, Edw. & Co. (Inc.), West av
Thihaut, E. A. & Co., 72 9th
Varnisol Co.
Victorson Varnish Co., West End av c 4th

(End of New York City)

TROY—DeGolyer Varnish Co., 77 13th
UTICA—Central New York Varnish Co.

OHIO.

AKRON—Akron Varnish Co.
Vulcan Varnish Works
CANTON—Canton Paint & Varnish Co.
CINCINNATI—Ault & Wiborg Co. (Finishing Varnishes & Japans)
Becker, R. A. Varnish Co., Harrison av & Garrard
Bird Varnish Co., 3d & Main
Blackburn Varnish Co., Langdon & Floral
Cincinnati Color Co., 1910 W 8th
Cincinnati Varnish Co., Erie & South sts
Griffin Mfg. Co., 1263 Budd
Pfaff, Jno., Varnish & Stain Co., 1660 Central av
Queen City Varnish Co., Langdon av & Montg'y rd
United States Varnish Co., 2618 Colerain
Wolf, Herman & Co., 214 W Liberty
CLEVELAND—Billings-Chapin Co., 1163 E 40th, N. E.
Cleveland Varnish Co., 3111 E 87th, S. E.
Day Varnish & Dryer Co., 2394 Canal

Empire Varnish Co., 2638 E. 76th, S. E.
Excelsior Varnish Works, 1242 W 74th.
Forest City Paint & Varnish Co., N. W.
Glidden Varnish Co.
National Paint & Varnish Co., 924 St. Clair av, N. W.
Ohio Varnish Co. ("Chi-Namel"), 8604 Kinsman rd, S E
Patterson-Sargent Co. ("Nisoron"), 1304 E 38th
Peerless Paint & Varnish Co., 1039 W 11th
Sherwin-Williams Co.
Star Varnish Co., 1211 W 65th, N. W.
Western Reserve Varnish Co., Marquette c Lake

COLUMBUS—Columbus Varnish Co., 357 Cozzenz
DAYTON—Kay & Ess Co.
Thresher Varnish Co.
Tower Varnish & Dryer Co.
FINDLAY—Ohio Paint & Varnish Co.
TOLEDO—Buckeye Paint & Varnish Co.
Royal Varnish Co.
Toledo Varnish Co., 128 Summit

PENNSYLVANIA.

ALLEGHENY—Eagle Paint & Varnish Co.
National Lead & Oil Co. of Penna., 2d Thompson & Co. National Bk Bldg
BENNETT—Ball Chemical Co.
HANOVER—Acme Extract & Chemical Works (E. G. Eckert, Prop.)
JAMESTOWN—Jamestown Paint & Varnish Co.
LANCASTER—Lancaster Paint & Glass Co. (Shellac)
NORRISTOWN—Norristown Varnish Co.
PHILADELPHIA—Adams, Thos. J. & Co., 3605 N 4th
Atlantic Drier & Varnish Co., Meadow & Wolf
Denny, Hilborn & Rosenbach, 305 Florist
Coyne Bros. Varnish Co., N 2d c Pike
Felton, Sihley & Co., 136 N 4th
FRENCH, SAMUEL H. & CO., 4th & Callowhill. (See adv. index, end of book)
Graves, N. Z. Co., 3200 S Broad
Harrison Bros. & Co., 35th c Gray's Ferry rd
Howell, C. H. & Co., 212 Race
Lawrence-McFadden Co., 1400 Fkd. av
Lucas, John & Co., 322 Race
McCloskey, L. J. & Co., S 30th c Locust
Nice, Eugene E. ("Nice"), 272 S Second
Phoenix Paint & Varnish Co., 124 Market
Phila. Varnish Co. (Inc.), 1601 Spring Garden
Ramho, Theo. G., 981 N 2d
Rau, Conrad F., 2821 Garden av
Schrack, C. & Co., 152 N 4th
Shoemaker, Robt. & Co., 4th & Race
THOMSON WOOD FINISHING CO., 115 N 4th. (See adv. index, end of book)
Woche, H. M. & Son, 1218 W College av
Woodhouse, Samuel F. ("Dull Eine"), Unity & Franklin

PITTSBURG—Globe Varnish Mfg. Co., 61st & Butler
Iron City Oil & Varnish Co., Inwood & Frankstown av
Lawrence, W. W. & Co., W Carson nr Point Bridge
McClintock & Irvine Co., Neville & P R R
NEVIN, S. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

Pittsburg Varnish Co., 2640 Liberty av
Sterling Varnish Co., Fulton bldg
READING—Ruth, B. F. & Co.
Wilhelm, A. Co.
TULLYTOWN—Tulley Paint & Varnish Co.

RHODE ISLAND.

PROVIDENCE—U. S. GUTTA PERCHA Paint Co., 12-30 Dudley. (See adv. index, end of book)

VIRGINIA.

RICHMOND—Atlantic Varnish Works.

WASHINGTON.

SEATTLE—Seattle Paint Co., 309 1st av.

Varnish Removers

(See Paint & Varnish Removers)

Varnish Renovator

Aquart, A. D. (Cleaning & Polishing), Chemical bldg, St. Louis, Mo.

Varnishes (Asphaltum)

Akron Varnish Co., Akron, O.
Allentown Mfg. Co., Allentown, Pa.
Atlantic Drier & Varnish Co., Drexel bldg, Phila., Pa.

Armitage Mfg. Co., Richmond, Va.
Canton Paint & Varnish Co., Canton, O.
Chicago Varnish Co. (Black), 855 Elston av, Chicago, Ill.

Cromwell-Walker Co. (Black), Harrison, N. J.
DOGGETT, STANLEY, 101 Beekman, New York. (See adv. index, end of book)
Eagle Paint & Varnish Co., Allegheny, Pa.
Forest City Paint & Varnish Co., Cleveland, O.
Fort Pitt Oil & Paint Co., Pittsburg, Pa.

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Harrison Bros. & Co. (Inc.), 35th c Gray's Ferry rd, Phila., Pa., & 117 Fulton, New York
Hommel, O. Co., Pittsburg, Pa.

INDIAN REFINING CO. (Black), Cincinnati, O. (See adv. index, end of book)
Kay & Ess Co., Dayton, O.

Lucas, Jno. & Co., 322 Race, Phila., Pa.
McClintock & Irvine Co., Pittsburg, Pa.
McCloskey, L. J. & Co., 30th & Locust, Phila., Pa.

Macneal, Jas. B. & Co., Baltimore, Md.
NEVIN, S. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

O'Brien Varnish Co., South Bend, Ind.
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Sherwin-Williams Co., Cleveland, O.
Smith, Edw. & Co. ("Black"), 141 B'way, New York

Standard Varnish Works, 29 B'way, New York
Stickney, J. W. & Co., 31 Milk, Boston, Mass.

THOMSON WOOD FINISHING CO., 115 N 4th, Phila., Pa. (See adv. index, end of book)

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Warren Bros. Co., 93 Federal, Boston, Mass.
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 branch offices, end of book)
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 av, New York.

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 Dauchy Iron Works, 88 Illinois, Chicago, Ill.
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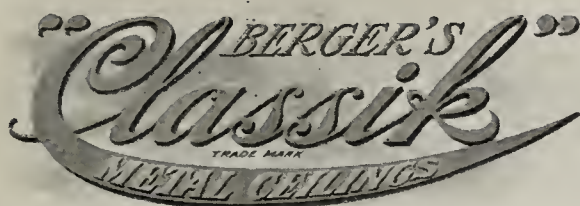
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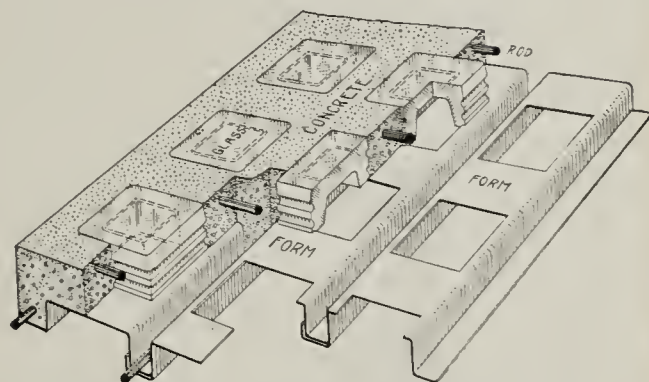
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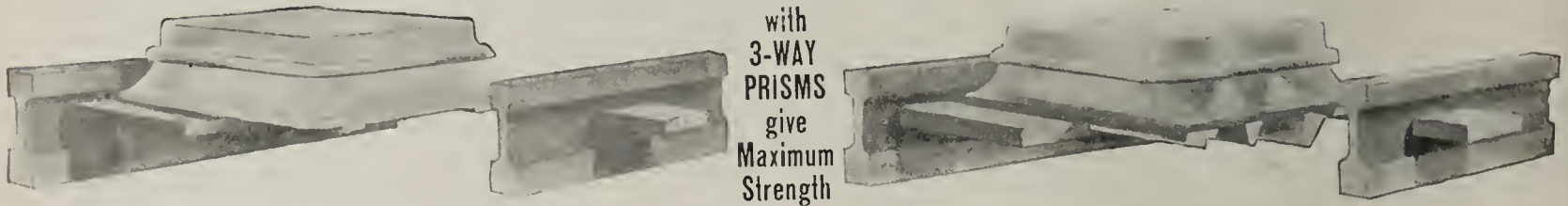
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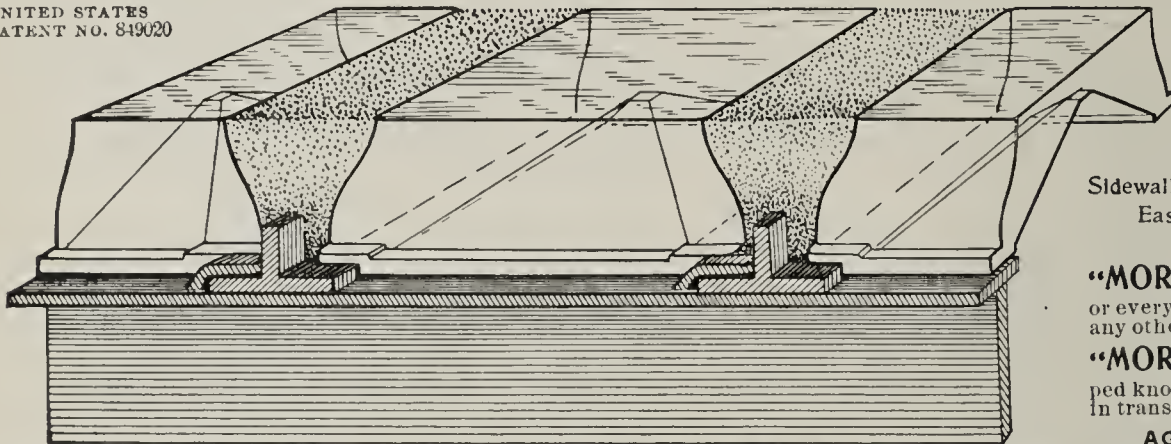
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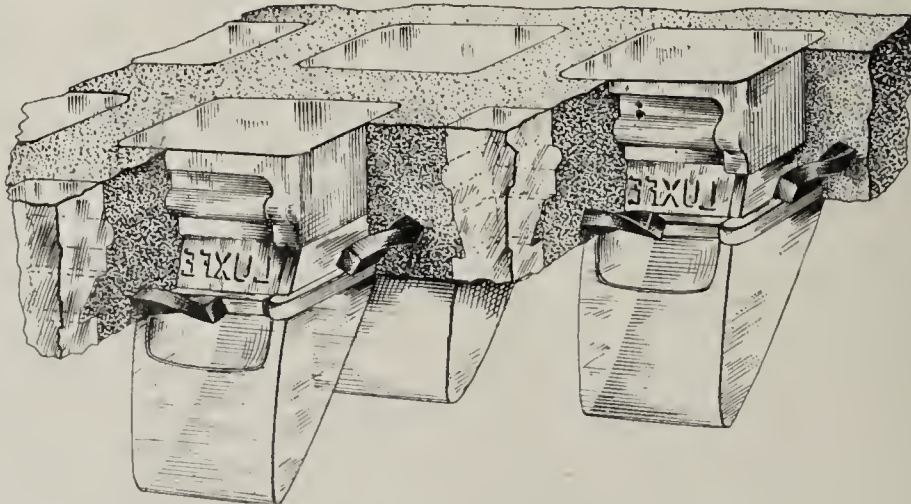
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Vossnack Lumber & Veneer Co., Long Island
City, N. Y.

Walker, J. C. & Sons, Alpena, Mich.
Webb, David R., Edinburg, Ind.
Willey, C. L., 1225 Robey, Chicago, Ill.
Williams, Ichabod T. & Sons, 338 Wabash av.,
Chicago, Ill.

Winterville Veneer Co., Winterville, Me.
Wisconsin Veneer Co., Rhinelander, Wis.
Wishler, C. F., Hillsboro, O.

Veneer Seating

Ahnapee Veneer & Seating Co., Algoma, Wis.
Eggers, Fred Veneer Seating Co., Two Rivers,
Wis.
Frost Veneer Seating Co., Sheboygan, Wis., &
208 Canal, New York
McKibben, G. N. Mfg. Co. (Also Panels, etc.),
So. Norwalk, Conn.
Woodman, Joel H., Hoboken, N. J.

Veneer Ties

(See Wall Ties)

*Veneers (Flexible)

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st., Buffalo, N. Y. (See adv. index, end of
book)

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WOOD MOSAIC FLOORING & LUM-
ber Co.; Office & Factory: Rochester, N. Y.
(See adv. Index & branch offices, end of book)

*Ventilating Apparatus ("Blackman")

HOWARD & MORSE, 45 Fulton, New
York. (See adv. facing first page of In-
dex of Contents)

Ventilating Apparatus for Power Plants, Factories, Buildings, Greenhouses, Etc.

(See also Blowers & Manufacturers; also Fans.
Various Kinds)

BELL PURE AIR & COOLING CO.
("Bell" Ventilating & Humidifying Sys-
tem), 90 West, New York
Carmody, J. D. (Automatic), Evansville, Ind.
Dearborn Hardware Mfg. Co. ("Triumph" Rol-
ler Bearing), 1344 Carroll av., Chicago, Ill.
Devlin, Thos. Mfg. Co. (Self-Locking for Fac-
tories, Buildings, etc.), 3d & Lehigh av.
Phila., Pa.

DROUVE, G. CO., 40 Tullip, Bridge-
port, Conn., & 40 Dearborn, Chicago, Ill.
(See adv. index, end of book)

Enterprise Mfg. Co. (Automatic), Newburgh, N. Y.
Hitchings & Co., 1170 B'way, New York
Lord & Burham Co., 1133 B'way, New York, &
Tremont bldg., Boston, Mass.

Lupton's, David Sons Co. ("Pond"), Alle-
gheny av & Tullip, Phila., Pa.

Quaker City Machine Co. (Evans' Roller Bear-
ing), Richmond, Ind.

Thorn, J. S. Co. ("Brand"), 20th & Alle-
gheny av., Phila., Pa.

Ventilating Apparatus (Me- chanical)

(See Fans, Exhaust & Ventilating; also Blower
Manufacturers)

Ventilating Apparatus (Ship)

Barney Ventilating Fan Works (A. B. Frank-
lin, Prop.), 24 Binford, Boston, Mass.
BELL PURE AIR & COOLING CO.,
90 West, New York

HOWARD & MORSE ("Blackman"),
45 Fulton, New York. (See adv. facing first
page, Index of Contents)

*Ventilating & Humidifying Sys- tems

BELL PURE AIR & COOLING CO., 90
West, New York

Ventilator Mfrs.

AMERICAN ROLLING MILL CO.
("American"), Middletown, O. (See adv.
index, end of book)

Autoforce Ventilating System ("Autoforce"), 53
Devonshire, Boston, Mass.

Automatic Ventilating Co. ("Automatic"), 120
Liberty, New York

BADGER, E. B. & SONS CO., 63 Pitts,
Boston, Mass. (See adv. index, end of book)

Berger Bros. Co. ("Perfection"), 231 Arch.
Phila., Pa.

BERGER MFG. CO., THE ("Buckeye
& World"), Main Office & Works, Canton,
O. (See adv. Index & branch offices, end
of book)

Buckeye Mfg. Co., Canton, O.
Burt Mfg. Co. ("Burt"), Akron, Ohio.

Caldwell Mfg. Co. ("Caldwell" Window),
Rochester, N. Y.

Calvert & Halloway (Nash), 68 N 2d, Phila., Pa.
Cambridge Roofing Co. (Eureka), Cambridge, O.

Canton Art Metal Co., Canton, O.

CANTON MFG. CO. ("Canton"), Can-
ton, O. (See adv. index, end of book)

CLASON ARCHITECTURAL METAL
Works (Revolving), 428 Kinsley av., Provi-
dence, R. I. (See adv. index, end of book)

Cushing, D. & Co., Lowell, Mass.

Dowman-Dozier Mfg. Co. (Dixie), Atlanta, Ga.

DROUVE, G. CO. ("Drouve"), 40 Tu-
lip, Bridgeport, Conn., & 40 Dearborn,
Chicago, Ill. (See adv. index, end of book)

EDWARDS MFG. CO., (Building &
Skylight), 545-565 Eggleston av., Cincinnati,
O. (See adv. index, end of book)

Ekstrom, J. P. ("Ekstrom" Kitchen Chimney)
Boyer City, Mich.

Ellis-Ford Mfg. Co. (Water Closet Ventilator),
Detroit, Mich.

THE "GLOBE" VENTILATOR



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 Friederichs & Wolfrum (Iron), 107 Gratiot av., Detroit, Mich.
FRIEDLEY-VOSHARDT CO. (Inc.) ("Crescent"), 194 Mather, Chicago, Ill. (See adv. index, end of book)
GLOBE VENTILATOR CO. ("Globe"), Troy, N. Y. (See adv. index, end of book)
 Hall & Carpenter ("Buckeye & Moore"), 518 Race, Phila., Pa.
 Helmet Ventilator Co., Portland, Me.
 Hewitt, Thos. J. (Rotary Screw), 51 Dey, New York
 Hoffman & Baur ("Columbia"), 279 Blake, Milwaukee, Wis.
 Independent Register & Mfg. Co., Cleveland, O.
 Indianapolis Corrugating Co. ("Peerless"), Indianapolis, Ind.
 International Ventilator & Deflector Co. (House), Portsmouth, Va.
 Iona Ventilator Co. ("Iona"), 2545 Penna av., Phila., Pa.
 Jersey City Galvanizing Co., 112 John, New York, & Jersey City, N. J.
 Keichler Mfg. Co., Cincinnati, O.
 Lee, Thos. ("Common Sense"), 132 W 2d, Cincinnati, O.
 Lorain Sheet Metal & Cornice Co. ("Imperial"), Lorain, Ohio
 Luerkenbach, A. T. ("Cyclone," Water Closet), Neenah, Wis.
 Mack, W. A. & Co., Lowell, Mass.
MERCHANT & EVANS CO. (Inc.) ("Star"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 Metallic Mfg. Co. (Metallic), 110 Erie, Camden, N. J.
 Meurer Bros. Co. ("Anchor"), 571 Flushing av., Brooklyn, N. Y.
 Middletown Mfg. Co. ("Miami"), Middletown, Ohio
MILWAUKEE CORRUGATING CO., ("Milwaukee"), Milwaukee, Wis. (See adv. index & branch offices, end of book)
 National Ventilating Co. ("National," "Mobile," "Victor," "Climax," & "Reliance"), 1 Madison av., New York
 New England Steel Roofing Co., Worcester, Mass.
 Ohio Blower Co. ("Swartout" Gravity Closing), Cleveland, O.
 Protective Ventilator Co., 129 Fulton, New York
 Riter Bros. & Co. ("Earle's"), 1022 Race, Phila., Pa.
 Royal Ventilator & Mfg. Co. ("Royal"), 415 Locust, Phila., Pa.
 Schuesseler, Jno., 717 Craig, Covington, Ky.
 Vacuum Ventilator Co. (Vacuum), 6 Beacon, Boston, Mass.
 Washburne, Edw. G. (Rotary Screw), 46 Cortlandt, New York
 Webb, E. & Son, 43 S Water, Phila., Pa.

*Ventilator Wheels

HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)

Ventilator & Skylight Combined

Burt Mfg. Co., Akron, O.
 Kanneberg Roofing & Ceiling Co., Canton, O.
MERCHANT & EVANS CO. (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 National Ventilating Co., 1 Madison av., New York

*Ventilators ("Badger's" Patent)

BADGER, E. B. & SONS CO., 63 Pitts., Boston, Mass. (See adv. index, end of book)

Ventilators (Brick Wall)

National Ventilating Co., 1 Madison av., New York
 Pullman Automatic Ventilator Mfg. Co., York, Pa., & 180 B'way, New York
 Tuttle & Bailey Mfg. Co., 83 Beekman, New York

Ventilators (Car)

Autoforce Ventilating System ("Autoforce"), 53 Devonshire, Boston, Mass.
 Automatic Ventilator Co., 120 Liberty, New York
 Creamer, W. G. & Co., 96 John, New York
 Enterprise Mfg. Co. ("Chadborn's" Automatic Ventilator & Heat Control), Newburgh, N. Y.
GLOBE VENTILATOR CO. ("Globe"), Troy, N. Y. (See adv. index, end of book)

Indianapolis Steel Roofing & Corrugating Co., Indianapolis, Ind.
MERCHANT & EVANS CO. (Inc.) ("Star"), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)
 National Ventilating Co., 1 Madison av., New York
 Perry Ventilator Co., New Bedford, Mass.
 Pullman Automatic Ventilator Mfg. Co. (Also for Depots, Offices, etc.), York, Pa., & 180 B'way, New York
 Royal Ventilator & Mfg. Co. ("Royal"), 415 Locust, Phila., Pa.
 Safety Car Heating & Lighting Co., 2 Rector, New York

Ventilators (Closet)

Miller Foundry & Specialty Co., North Tonawanda, N. Y.
 Peerless Ventilator Co. (Closet Bowl), Prudential Bldg., Buffalo, N. Y.
 Pullman Automatic Ventilating Mfg. Co., York, Pa., & 180 B'way, New York
NATURAL AUTOFORCE VENTILATOR CO. ("Autoforce"), 53 Devonshire, Boston, Mass. (See adv. index, end of book)
 Sanitary Appliance Co. ("Cyclone"), Neenah, Wis.
 Scully, W. J. Ventilator & Mfg. Co. ("Puritus"), Detroit, Mich.

Ventilators (Mine)

Schutte & Koerting Co. ("Koerting"), 12th & Thompson, Phila., Pa.

Ventilators (Ship)

Autoforce Ventilating System ("Autoforce"), 53 Devonshire, Boston, Mass.
 Bishop, Wm. Sons, 205 South, New York
 O'Crowley, J. J., 45 Hudson, Jersey City, N. J.
 Sands, Alfred B. & Sons Co., 20 Vesey, New York

Ventilators (Stained Glass Window)

Deissler, P. & Bro. ("Deissler"), 249 S. 6th, Phila., Pa.

Ventilators (Window)

Acorn Brass Mfg. Co. ("Acorn"), 203 Fulton, New York
 Autoforce Ventilating System ("Autoforce"), 53 Devonshire, Boston, Mass.
 Automatic Ventilator Co. ("Automatic"), 120 Liberty, New York
 Caldwell Mfg. Co. ("Caldwell"), Rochester, N. Y.
 Field's, Chas. J. Sous, 633 Market, Phila., Pa.
 Ideal Ventilator Co. ("Ideal"), Providence, R. I.
 International Moulding Co. ("Ozone"), 21st & Morgan, Chicago, Ill.
 Manhattan Perfected Ventilator Co., 11 Baxter, New York
 National Ventilating Co., 1 Madison av., New York
 National Ventilator Co. (Adjustable), 149 S. Jefferson, Chicago, Ill.
 Perfect Ventilator Co., Canton, O.
 Protective Ventilator Co. (Revolving, etc.), 129 Fulton, New York
 Pullman Automatic Ventilator Mfg. Co. (For Either Top or Bottom), York, Pa., & 180 B'way, New York
 Roebuck Weather Strip & Wire Screen Co., 419 Hamilton av., Brooklyn, N. Y.
 Tuttle & Bailey Mfg. Co. ("Perfection"), 83 Beekman, New York
 Zephyr Ventilator Mfg. Co., Inc., Phila., Pa.

Vestibules (Car)

Brill, J. G. Co., 62d & Woodland av., Phila., Pa.
 Gould Coupler Co., 345 5th av., New York
 Rookery bldg., Chicago, Ill.
 McConway & Torley Co., 48th & A. V. Ry., Pittsburg, Pa.
 Sforberg, J. P. & Co. (Portable & Stationary), 533 W 32d, New York

Vibrator Mfrs.

Allison, W. D. Co., Indianapolis, Ind.
 American Vibrator Co., 407 N 8th, St. Louis, Mo.
 Barker, James ("Barker"), 6th & Cayuga, Phila., Pa.
 Betz, Frank S., Hammond, Ind.
 Birtman, C. F. Co., 152 Lake, Chicago, Ill.

COATES CLIPPER MFG. CO., Worcester, Mass. (See adv. index, end of book)
 Electric Mfg. Co., San Francisco, Cal.
 Eureka Vibrator Co., Majestic bldg., Detroit, Mich.
 Eureka Vibrator Co. ("Vibro-Life" Hand Power), 1269 B'way, New York
 Gen. Compressed Air & Vacuum Machy. Co. ("Thurman"), St. Louis, Mo.
 Globe Manufacturing Co., Battle Creek, Mich.
 Gorman, Samuel J. Co., 824 W Fullerton av., Chicago, Ill.
 Hass, R. Electric & Mfg. Co. ("Ideal"), Springfield, Ill.
 Jacobson-Brandow Co., Pittsfield, Mass.
 Keystone Electric Co., 135 S 10th, Phila., Pa.
 Lindstrom-Smith Co. ("Red-Cross"), 253 La Salle, Chicago, Ill.
 Magno Vibrator Co., 5 W Madison, Chicago, Ill.
 Marshall Vibrator Co., 205 W 56th, New York
 Moon Vibrator Co., 112 Indiana, Chicago, Ill.
 Shelton Electric Co. ("Wayne"), 35 Randolph, Chicago, Ill.
 Standard Electrical Works ("Arnold"), Racine, Wis.
 Stolz Electrophone Co., 92 State, Chicago, Ill.
 Swedish Electric Massage Vibrator Co., 34 Washington, Chicago, Ill.
 Swedish Electric Vibrator Co., 1760 Ravenswood Park, Chicago, Ill.
 Vibrassage Co., 176 Wells, Chicago, Ill.
 Victor Electric Co., 56 Market, Chicago, Ill.
 Wizard Co., 59 Dearborn, Chicago, Ill.

Vibratory Massage Machines

Garrett, J. E. ("Veedee"), 1133 B'way, New York

Viscosimeters

Feldt, Geo. D. & Co. ("Doolittle's" Torsion), 29 N 7th, Phila., Pa.
 Olsen, Tinius & Co., 500 N 12th, Phila., Pa.

Vise Drilling Attachments

Goodell-Pratt Co., Greenfield, Mass.
 Prentiss Vise Co., 44 Barclay, New York

Vise Pipe Grip

Athol Machine Co. ("Standard" to be Attached or Inserted to Jaws of a Vise for Making Pipe Vise), Athol, Mass.

Vise Stands (Portable)

New Britain Machine Co., New Britain, Conn.
 Western Tool & Mfg. Co. ("Champion"), Springfield, O.

Vises (Amateur)

Athol Machine Co. ("Little Giant"), Athol, Mass.

Vises (Anvil)

Athol Machine Co., Athol, Mass.
 Bonney Vise & Tool Works, Allentown, Pa.
 Fulton Iron & Engine Works, Detroit, Mich.
 Millers Falls Co., 28 Warren, New York, & Millers Falls, Mass.
 Prentiss Vise Co., 44 Barclay, New York
 Phoenix Hardware Mfg. Co., Homer, N. Y.
 Sargent & Co., New Haven Conn., & 153 Leonard, New York
 Stowell Mfg. & Foundry Co., South Milwaukee, Wis.

Vises (Automobile)

Pittsburg Automatic Vise & Tool Co., Pittsburg, Pa.

Vises (Band Saw)

Atkins, E. C. & Co., Indianapolis, Ind.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

When writing to firms whose names appear in this book please mention

HENDRICKS' COMMERCIAL REGISTER.

Vises (Bench)

Abernathy Vise & Tool Co., 327 Englewood av, Chicago, Ill.
 Athol Machine Co. ("Simpson's" Standard), Athol, Mass.
 Barrett Machine Tool Co. ("Barrett"), Meadville, Pa.
 Barbour-Stockwell Co. (Screw, the "Chandler" & "Washburn"), Cambridge, Mass.
 Blissfield Motor Works ("Davenport" Tilting), Blissfield, Mich.
 Bonney Vise & Tool Works (Inc.) ("Bonney" & "Champion"), Allentown, Pa.
 Columbian Hardware Co. (Machinists, "Columbian," etc.), Cleveland, O.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Eagle Anvil Works ("Fisher" Screw), Trenton, N. J.
 Emmert Mfg. Co. ("Presto," "Tiger"), Waynesboro, Pa.
 Fisher & Norris ("Fisher") (Clark Fisher, Prop.), Trenton, N. J.
 Fulton Machine & Vise Co. (Swivel), Lowell, N. Y.

HAMMACHER, SCHLEMMER & CO.,
 133 4th av, New York. (See adv. index, end of book)

Hanna Engineering Works (Automatic, Quick Acting), 820 Elston av, Chicago, Ill.
 Howard Iron Works (Fixed & Swivel), Buffalo, N. Y.

Ideal Machine Works, 257 39th, Brooklyn, N. Y.
 Illinois Iron & Bolt Co. (Machinists, etc.), Carpentersville, Ill.

INGERSOLL-RAND CO., 11 B'way,
 New York. (See adv. index & branch offices, end of book)

IRVING MFG. & TOOL CO. (J. F. McCoy Co. Prop.), 157 Chambers, New York
 (See adv. index, end of book)

Jones & Langhlin Steel Co. ("The Howard"), Pittsburg, Pa.

Massey Vise Co., 208 Michigan, Chicago, Ill.

MERRILL BROS. (Steel Bar, Parallel Jaws, Swivel Base), William st, Maspeth (Borough of Queens), New York. (See adv. index, end of book)

Midland Iron Works, Racine, Wis.

Millers Falls Co. ("Millers Falls"), 28 Warren, New York; Works: Millers Falls, Mass.

Parker, Chas. Co., Meriden, Conn.

Phoenix Hardware Mfg. Co., Homer, N. Y.

Pittsburg Automatic Vise & Tool Co. (Motor Boat & Automobile), Pittsburg, Pa.

Prentiss Vise Co., 44 Barclay, New York

Pullman Mfg. Co., Rochester, N. Y.

Quick Automatic Vise Co. ("Rochester"), Reed Mfg. Co., Erie, Pa.

Rock Island Tool Co. ("Rock Island," Automatic Swivel, Lock Jaw), Rock Island, Ill.

Sheldon, E. H. & Co., 84 N May, Chicago, Ill.

Stearns, E. C. & Co. ("Stearns" Gypsy Pattern & Oval Slide), Syracuse, N. Y.

Toles, W. C. Co., 2479 N 42d av, Chicago, Ill.

Tower & Lyon Co. ("Stephens" Patent & "XL"), 95 Chambers, New York

Walker, G. A. Machine Co. ("Best"), 51 Char-don st., Boston, Mass.

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Ware, J. L. & Co. ("Wares," Steel Yoke), St. Paul, Minn.

Williamson Vise Co. ("Williamson" Universal Double Swivel), Bradford, Pa.

Yost, G. M. Mfg. Co. ("Yost"), Meadville, Pa.

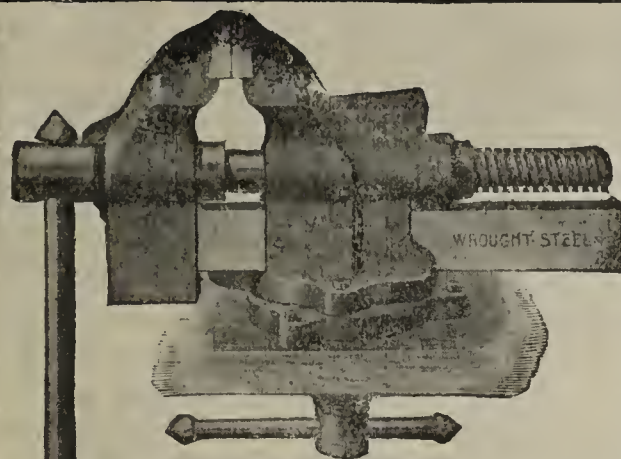
Vises (Bicycle)

Hollands Mfg. Co., Erie, Pa.
 Massey Vise Co., 208 Michigan, Chicago, Ill.
 Prentiss Vise Co., 44 Barclay, New York

Vises (Blacksmiths')

Columbian Hardware Co., Cleveland, O.
 Columbus Forge & Iron Co., Columbus, O.
 Eagle Anvil Works, Trenton, N. J.
 Hollands Mfg. Co., Erie, Pa.
 New London Vise Works, New London, Conn.
 Rock Island Tool Co. ("Rock Island" Automatic Swivel), Rock Island, Ill.
 Russ, A. E. Mfg. Co., Cleveland, O.
 Tower & Lyon Co., 195 Chambers, New York
 Wiley & Russell Mfg. Co., Greenfield, Mass.
 Yost, G. M. Mfg. Co. ("Yost" Quick Acting Leg), Meadville, Pa.

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 NEW YORK, N. Y.**

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(See Vises, Coach Makers' or Wood Workers')

Vises (Carpet)

Kraeuter & Co., Newark, N. J.
 Osborne, C. S. & Co. ("Kelly"), Harrison, N. J.

Vises (Chain Pipe)

Ellis & Ford Mfg. Co. ("Ellis"), Detroit, Mich.
 Williams, J. H. & Co., 150 Hamilton av, Brooklyn, N. Y.

Vises (Clamp)

Miller's Falls Co. (Oval Slide), 28 Warren, New York; Works: Millers' Falls, Mass.
 Prentiss Vise Co. ("Shepard"), 44 Barclay, New York
 Sheldon, E. H. & Co. ("Sheldon's" Mitre Clamping), 84 N May, Chicago, Ill.
 Stearns, E. C. & Co., Syracuse, N. Y.

Vises (Coach Makers' or Wood-Workers')

Athol Machine Co. ("Simpson's"), Athol, Mass.
 Barrett Machine Tool Co. ("Barrett"), Meadville, Pa.
 Billings & Spencer Co., Hartford, Conn.
 Bliss, R. Mfg. Co. (Carpenters), Pawtucket, R. I.
 Bonney Vise & Tool Works, Allentown, Pa.
 Columbian Hardware Co. ("Columbian"), Cleveland, O.

Emmert Mfg. Co. ("Presto"), Waynesboro, Pa.
HAMMACHER, SCHLEMMER & CO.,
 133 4th av, New York. (See adv. index, end of book)

Hardware & Woodenware Mfg. Co., 693 B'way, New York

Illinois Iron & Bolt Co., Carpentersville, Ill.

Massey Vise Co., 208 Michigan, Chicago, Ill.

New London Vise Works ("Hyde's"), New London, Conn.

Oliver Machinery Co., Grand Rapids, Mich.

Parker, Chas. Co., Meriden, Conn.

Phoenix Hardware Mfg. Co., Homer, N. Y.

Pittsburg Automatic Vise & Tool Co. ("Universal"), Pittsburg, Pa.

Prentiss Vise Co., 44 Barclay, New York

Sheldon, E. H. & Co. ("Sheldon" Rapid Acting), 84 N May, Chicago, Ill.

Timmis & Clissold, Roundbrook, N. J.

Toles, W. C. Co., 2479 N 42d av, Chicago, Ill.

Wyman & Gordon (Quick Action), Worcester, Mass.

Vises (Cutters')

New London Vise Works, New London, Conn.

Vises (Drill)

Adams Co. ("The Diamond"), Dubuque, Ia.
 Armstrong Bros. Tool Co. ("Armstrong" Quick Action), 113 N Francisco av, Chicago, Ill.

Blissfield Motor Works ("Davenport" Tilting for Drill Presses), Blissfield, Mich.

Bonney Vise & Tool Co., Allentown, Pa.

Cincinnati-Bickford Tool Co., Cincinnati, O.

Fulton Machine Co. (Drill-Press), Fulton, O.

Graham Mfg. Co., Providence, R. I.

Hill Standard Mfg. Co. ("Hill" for Drill Press), Anderson, Ind.

Hoggson & Pettis Mfg. Co. (Drill Press), New Haven, Conn.

Hopkinson Machine Works ("Hopkinson"), Springfield, Mass.

Massey Vise Co., 208 Michigan, Chicago, Ill.

Millers' Falls Co. ("Alford"), 28 Warren, New York; Works: Millers' Falls, Mass.

Patterson Tool & Supply Co. ("Patterson"), Dayton, O.

Plunket, J. E. ("Plunket" Drill Press), 47 S. Jefferson, Chicago, Ill.

Prentiss Vise Co., 44 Barclay, New York

Skinner Chuck Co. ("Skinner" Drill Press), New Britain, Conn.

Titus Machine Works ("Titus" Drill Presses), Marion, O.

Vises (Farmers')

Athol Machine Co., Athol, Mass.
 Columbian Hardware Company ("Columbian"), Cleveland, O., & 168 Church, New York
 Parker, Chas. Co., Meriden, Conn.
 Phoenix Hardware Mfg. Co., Homer, N. Y.

Vises (Foot)

Illinois Iron & Bolt Co. ("Rice"), Carpentersville, Ill.
 New London Vise Works ("Hyde's" Horse Shoers), New London, Conn.
 Noyes, B. B. & Co. ("Little Giant"), Greenfield, Mass.

Vises (Hand)

Athol Machine Co. ("Boss," "Standard"), Athol, Mass.

Billings & Spencer Co. ("Brighton"), Hartford, Conn.

Bonney Vise & Tool Works (Swivel Bench & Hand Vise Combined), Allentown, Pa.

Braunsdorf-Mueller Co., Elizabeth, N. J.

Goodell-Pratt Co., Greenfield, Mass.

Hardware & Woodenware Mfg. Co. ("Brighton"), 693 B'way, New York

Illinois Iron & Bolt Co., Carpentersville, Ill.

IRVING MFG. & TOOL CO. (J. F. McCoy Co. Prop.), 157 Chambers, New York
 (See adv. index, end of book)

Lowell Wrench Co., Worcester, Mass.

Millers' Falls Co. ("Alford"), 28 Warren, New York; Works: Millers' Falls, Mass.

National Novelty Corp'n ("Brighton"), 826 B'way, New York

Phoenix Hardware Mfg. Co., Homer, N. Y.

Secor, A. W., 65 Fulton, New York
Smith, Otis A. (Hand, with Parallel Jaw),
Rockfall, Conn.
Smith & Hemenway Co., 108 Duane, New York
Universal Tool Co. (Also with Combination
Wrench), Springfield, Mass.

Vises (Horseshoers')

Burke, P. F., Dorr & Dorchester av., Boston,
Mass.
Butts & Ordway Co., 33 Purchase, Boston, Mass.
Champion Tool Co. ("Champion" Foot), Mead-
ville, Pa.
Columbian Hardware Co. ("Columbian"), Cleve-
land, O.
Wells Bros. Co., Greenfield, Mass.
Wiley & Russell Mfg. Co. ("Green River" Shoe
ing Vise & Bolt Header), Greenfield, Mass.

Vises (Jewelers')

Athol Machine Co., Athol, Mass.
Barker, Chas. Co., Meriden, Conn.
Emmert Mfg. Co., Waynesboro, Pa.
Lowell Wrench Co. (Pin), Worcester, Mass.
Parker, Chas. Co., Meriden, Conn.
Pittsburg Automatic Vise & Tool Co., Pitts-
burg, Pa.
Prentiss Vise Co., 44 Barclay, New York
Secor, A. W., 65 Fulton, New York
Tower & Lyon Co., 95 Chambers, New York
Williamson Vise Co., Bradford, Pa.

Vises (Linemen's)

Billings & Spencer Co. (Drop Forged), Hart-
ford, Conn.
Dicke Tool Co., Downers Grove, Ill.
Utica Drop Forge & Tool Co., Frankfort, N. Y.

Vises (Machinists')

Adams Company ("Diamond," Parallel Jaw),
Dubuque, Iowa
Athol Machine Co. (Parallel Jaw), Athol, Mass.
Barrett Machine Tool Co. ("Barrett," Parallel
Jaw, also Swivelling Jaw), Meadville, Pa.
Bonney Vise & Tool Works (Parallel "A-Jax,"
"Hercules"), Allentown, Pa.
Columbian Hardware Co. (Parallel Jaw), Cleve-
land, O.
Emmert Mfg. Co. ("Emmert" Universal Paral-
lel Jaw), Waynesboro, Pa.
HAMMACHER, SCHLEMMER & CO.,
133 4th av., New York. (See adv. index,
end of book)
Hanna Engineering Works (Parallel Jaw), 820
Elston av., Chicago, Ill.
Hill Standard Mfg. Co. ("Hill," Parallel Jaw),
Anderson, Ind.
Hollands Mfg. Co. (Parallel & Swivelling Jaw),
Erie, Pa.
Howard Iron Works (Parallel Jaw), Buffalo,
N. Y.
Illinois Iron & Bolt Co. (Swivel Self-Adjust-
ing & Parallel), Carpentersville, Ill.
Lombard-Replegle Engineering Co. (Parallel
Jaw), Akron, O.
Massey Vise Co. (Parallel Jaw), 208 Michigan,
Chicago, Ill.
MERRILL BROS. (Parallel Jaw),
William st., Maspeth (Borough of Queens),
New York. (See adv. index, end of book)
Miller's Falls Co., 28 Warren, New York. Works:
Miller's Falls, Mass.
Parker, Chas. Co. (Parallel & Swivelling Jaw),
Meriden, Conn.
PATTERSON, GOTTFRIED & HUN-
ter (Ltd.), 211 Centre, New York
Pittsburg Automatic Vise & Tool Co., Pitts-
burg, Pa.
Prentiss Vise Co. ("Bulldog," Parallel & Swiv-
elling Jaw), 44 Barclay, New York
Reed Mfg. Co. (Parallel & Swivelling Jaw),
Erie, Pa.
Rock Island Tool Co. ("Rock Island" Automatic
Swivel), Rock Island, Ill.
Tower & Lyon Co. (Parallel Jaw), 95 Chambers,
New York
Williamson Vise Co. ("Williamson," Parallel &
Double Swivelling Jaw), Bradford, Pa.
Yost, G. M. Mfg. Co. ("Yost"), Meadville,
Pa.

Vises (Manual Training)

Yost, G. M. Mfg. Co. ("Yost"), Meadville,
Pa.

Vises (Milling Machine)

Atlas Machine Co. ("Atlas" Swivel), Provid-
ence, R. I.
Aurora Tool Works, Aurora, Ill.
Becker Milling Machine Co., Hyde Park, Mass.
Blissfield Motor Works ("Davenport" Tilting),
Blissfield, Mich.

Brown & Sharpe Mfg. Co., Providence, R. I.
Carter & Hakes Machine Co., Winsted, Conn.
Cincinnati-Bickford Tool Co., Cincinnati, O.
Cincinnati Milling Machine Co., Cincinnati, O.
Clough, R. M., Tolland, Conn.
Fox Machine Co., Grand Rapids, Mich.
Garvin Machine Co., 137 Varick, New York
Hendey Machine Co., Torrington, Conn.
Hill, Clarke & Co., 156 Oliver, Boston, Mass.
Hill Standard Mfg. Co. ("Hill"), Anderson,
Ind.
Kearney & Trecker, Milwaukee, Wis.
Kemp Smith Mfg. Co., Milwaukee, Wis.
Le Blond, R. K. Machine Tool Co., Cincin-
nati, O.
Massey Vise Co., 208 Michigan, Chicago, Ill.
Oesterlein Machine Co., Cincinnati, O.
Owen Machine Tool Co. (Swivel), Spring-
field, O.
Plunket, J. E. ("Plunket"), 47 Jefferson, Chi-
cago, Ill.

Pratt & Whitney Co., Hartford, Conn.
Vanderbeck Tool Works, Hartford, Conn.
Steptoe, Jno. Shaper Co., Cincinnati, O.
Whitney Mfg. Co., Hartford, Conn.

Vises (Oval Slide)

Athol Machine Co., Athol, Mass.
Millers Falls Co., 28 Warren, New York.
Works, Millers Falls, Mass.
Parker, Chas. Co., Meriden, Conn.

Vises (Parallel)

(See Vises, Bench)

Adams Co. ("The Diamond"), Dubuque, Ia.
Athol Machine Co. ("Simpson's" Adjustable),
Athol, Mass.
Bonney Vise & Tool Works, Allentown, Pa.
Columbian Hardware Co. ("Columbian"), Cleve-
land, O.
Emmert Mfg. Co. ("Tiger"), Waynesboro, Pa.
Fisher & Norris ("Fisher" Double Screw) (Clark
Fisher, Prop.), Fair & Factory, Trenton,
N. J.
Fulton Mach. & Vise Co. ("Fulton" Solid
Jaw), Lowville, N. Y.
HAMMACHER, SCHLEMMER & CO.,
133 4th av., New York. (See adv. index,
end of book)
Hollands Mfg. Co., Erie, Pa.
Howard Iron Works, Buffalo, N. Y.
IRVING MFG. & TOOL CO. (J. F.
McCoy Co., Prop.), 109 Chambers, New York.
(See adv. index, end of book)
Jones & Laughlin Steel Co. (Ltd.), Pittsburg,
Pa.
Massey Vise Co., 208 Michigan, Chicago, Ill.
MERRILL BROS. (Steel Bar), Wil-
liam st., Maspeth (Borough of Queens), New
York. (See adv. index, end of book)
Millers Falls Co., 28 Warren, New York.
Works: Millers Falls, Mass.
Parker, Chas. Co., Meriden, Conn.
Prentiss Vise Co. ("Rapid Transit Bull Dog"),
44 Barclay, New York
Tower & Lyon Co. (Leg Quick Acting), 95
Chambers, New York
Yost, G. M. Mfg. Co. ("Yost" Solid Jaw),
Meadville, Pa.

Vises (Pattern Makers')

(See Vises, Coach Makers' or Wood Workers';
also Vises, Bench)

Vises (Picture Frame)

Marsh, H. C. ("Marsh"), Rockford, Ill.

Vises (Pin)

Billings & Spencer Co. ("Billings"), Hartford,
Conn.
Braunsdorf-Mueller Co., Elizabeth, N. J.
Fray, John S. Co., Bridgeport, Conn.
Goodell-Pratt Co., Greenfield, Mass.
Kendrick & Davis, Lebanon, N. H.

Lowell Wrench Co. (Jewelers, etc.), Worces-
ter, Mass.
STARRETT, L. S. CO., Athol, Mass.
(See adv. index & branch offices, end of
book)

Vises (Pipe)

Adams Co. (The "Diamond"), Dubuque, Ia.
ARMSTRONG MFG. CO. (Hinged
Pipe Vises), Bridgeport, Conn. (See adv.
index & branch offices, end of book)



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Hinged

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Strong and Simple. Made of the
best malleable iron with inter-
changeable crucible steel jaws.
Four sizes up to six inch pipe.
Ask your dealer or write us
direct.

The Armstrong Mfg. Co.

315 KNOWLTON ST.,
BRIDGEPORT, CONN.

Barret Machine Tool Co. ("The Barret" Com-
bination), Meadville, Pa.
Bignall & Keeler Mfg. Co. (Combination, Bench
& Pipe), Edwinstown, Ill.
Bonney Vise & Tool Works (Indispensable, etc.),
Butler Co., Butler, Ind.
Butterfield & Co., Derby Line, Vt.
Clark Bros. Co., Belmont, N. Y.
Cox & Sons Co., 215 Race, Phila., Pa.
Connecticut Tool Co. (Hinged), Bridgeport, Conn.
Crane Co. (Est. 1855), 519 S Canal. (See adv.
index & branch offices, end of book)
Craue Valve Co. (Malleable Iron), Bridgeport,
Conn.
Curtis & Curtis Co., Bridgeport, Conn.
Eagle Anvil Works ("Fisher"), Trenton, N. J.
Emmert Mfg. Co. ("Presto"), Waynesboro, Pa.
Enterprise Windmill Co. ("Enterprise"), Sand-
wich, Ill.
Erie Mfg. & Supply Co. (Sectional Jaw), Erie,
Pa.
Fulton Machine & Vise Co. ("F. & R."
"Star" Solid Jaw & Combination Pipe),
Lawville, N. Y.
General Fire Extinguisher Co., Providence, R. I.
Globe Vise & Truck Co., Grand Rapids, Mich.
Henderer, A. L. Sons, Wilmington, Del.
Hollands Mfg. Co. ("Hough"), Erie, Pa.
Hilts Wrench & Mfg. Co. ("Vulcan" Chaln),
Richford, N. Y.
Howard Iron Works, Buffalo, N. Y.
Illinois Iron & Bolt Co. ("I. I. & B. Co."),
Carpentersville, Ill.
IRVING MFG. & TOOL CO. (J. F.
McCoy Co., Prop.), 157 Chambers, New
York. (See adv. index, end of book)
Jarecki Mfg. Co., Erie & Pittsburg, Pa.
Kemp, C. M. Mfg. Co. ("Climax"), 401 E
Oliver, Baltimore, Md.
McMANN & TAYLOR, 104 John, New
York. (See adv. index, end of book)
Mark Mfg. Co. ("Roller"), Evanston, Ill.
Massey Vise Co. ("Clutches," Lightning Grip),
208 Michigan, Chicago, Ill.
Nason Mfg. Co., 71 Beekman, New York
OIL WELL SUPPLY CO., 215 Water,
Pittsburg, Pa. (See adv. index, end of book)
Oswego Tool Co. ("Walworth," "Armstrong"
& "Smith" Patterns), Oswego, N. Y.
Parker, Chas. Co. (Combination), Meriden,
Conn.

When writing to firms whose
names appear in this book
please mention

HENDRICKS'
COMMERCIAL REGISTER.

PATTERSON, GOTTFRIED & HUN-
ter (Ltd.), 211 Centre, New York
Phoenix Hardware Mfg. Co., Homer, N. Y.
Pittsburg Automatic Vise & Tool Co. (Portable
& Double Swivel), Pittsburg, Pa.
Prentiss Vise Co. ("New Blake," "Prentiss,"
Combination "Prentiss," Open Side & 20th
Century "Shepard"), 44 Barclay, New
York
Reed Mfg. Co., Erie, Pa.
Rock Island Tool Co. ("Rock Island" Auto-
matic Swivel & Hinged), Rock Island, Ill.
Saunders, D. Sons Co., Youkers, N. Y.
SIMMONS, JOHN CO., 110 Centre
New York. (See adv. index, end of book)
Spencer Regulator Co. ("Spencer"), Salem,
Mass.
Vandeman, Wm. Plumbing & Heating Co. (Com-
bination & Self-Locking), Willmantie, Conn.
Walworth Mfg. Co. ("Klingfast"), 132 Federal
Boston, Mass.
Warnock Mfg. Co. ("Warnock" Smooth & Nickel
Pipe), Worcester, Mass.
Wells, F. E. & Son Co. ("Wells"), Greenfield,
Mass.
Williams, J. H. & Co. (Chain), 150 Hamilton
av. Brooklyn, N. Y.
Williamson Vise Co. ("Williamson" Universal
Double Swivel), Bradford, Pa.
Yale & Towne Mfg. Co., 9 Murray, New York

Vises (Pipe, Combination)

Barrett Machine Tool Co. ("Barrett") Meadville,
Pa.
Bignall & Keeler Mfg. Co., Edwardsville, Ill.
Bonney Vise & Tool Works, Allentown, Pa.
Fulton Machine & Vise Co., Louisville, N. Y.
Hollands Mfg. Co. ("Hough"), Erie, Pa.
Howard Iron Wks., Buffalo, N. Y.
Parker, Chas. Co., Meriden, Conn.
Prentiss Vise Co. ("Prentiss"), 44 Barclay
New York
Reed Mfg. Co., Erie, Pa.
Secor, A. W., 65 Fulton, New York.
Stowell Mfg. & Foundry Co., South Milwaukee,
Wis.
Williamson Vise Co., Bradford, Pa.

Vises (Planer)

Blissfield Motor Works ("Davenport" Tilt-
ing), Blissfield, Mich.
Cincinnati-Bickford Tool Co., Cincinnati, O.
Denson Mfg. Co. ("Denson"), Warren, O.
Fulton Machine Co., Canal Fulton, O.
Hendey Machine Co., Torrington, Conn.
Hill Standard Mfg. Co. ("Hill"), Anderson,
Ind.
Massey Vise Co., 208 Michigan, Chicago, Ill.
Pratt & Whitney Co., Hartford, Conn.
Vanderbeck Tool Works, Hartford, Conn.
Pratt & Whitney Co., Hartford, Conn.
Steptoe, Jno. Shaper Co., Cincinnati, O.
Vanderbeck Tool Works, Hartford, Conn.

Vises (Saw)

Atkins, E. C. & Co., Indianapolis, Ind.
Baldwin, Tuthill & Bolton (For Band Saws)
Grand Rapids, Mich.
Bonney Vise & Tool Works (Saw Filers), Al-
lentown, Pa.
Cincinnati Tool Co., Cincinnati, O.
Disston, Hy. & Sons (Inc.), Tacony, Phila., Pa.
Foote, J. B. Foundry Co. (Folding, Saw Filers,
Vises), Fredericktown, O.
Grammes, L. F. & Sons, Allentown, Pa.
HAMMACHER, SCHLEMMER & CO.,
133 4th av., New York. (See adv. index,
end of book)
Jennings, C. E. & Co., 42 Murray, New York
New Britain Machine Co. (For Filing Band
Saws), New Britain, Conn.
Parker, Chas. Co. (Adjustable Saw Filers),
Meriden, Conn.
Phoenix Hardware Mfg. Co., Homer, N. Y.
Stearns, E. C. & Co. ("Stearns," "Went-
worth"), Syracuse, N. Y.

Vises (Solid Box)

Columbian Hardware Company ("Colum-
bian"), Cleveland, O., & 168 Church, New
York
Columbus Forge & Iron Co., Columbus, O.
Fisher & Norris (Fisher), (Clark Fisher, Prop.),
Fair & Factory, Trenton, N. J.
HAMMACHER, SCHLEMMER & CO.,
133 4th av., New York. (See adv. index,
end of book)
Iron City Tool Works (Ltd.), Pittsburg, Pa.
MERRILL BROS. (Steel Bar, Parallel
Jaws, Swivel Base), William st., Maspeth
(Borough of Queens), New York. (See adv.
index, end of book)
New London Vise Works, New London, Conn.
Prentiss Vise Co., 44 Barclay, New York

Vises (Tool Makers')

Atlas Machine Co. ("Atlas"), Providence, R. I.
Emmert Mfg. Co. ("University"), Waynesboro,
Pa.
MERRILL BROS. (Steel Bar), Wil-
liam st., Maspeth (Boro. of Queens), New
York. (See adv. index, end of book)
Parker, Chas. Co., Meriden, Conn.

*Voltmeters

WESTINGHOUSE ELECTRIC MFG.
Co., Union Bank bldg., Pittsburg, Pa. (See
adv. index & branch offices, end of book)

Voltmeters & Frequency In- dicator Combined

Wagner Electric Mfg. Co., St. Louis, Mo.

*Vulcabeston

JOHNS-PRATT CO., THE. (For Elec-
tric Insulation & Steam Packing, etc.).
Hartford, Conn.

Vulcanizers (Rubber Mill)

Biggs Boiler Works Co., Akron, O.
Birmingham Iron Foundry, Derby, Conn.
Farrel Fdry. & Machine Co., Ansonia, Conn.
McNeil Boiler Co., Akron, O.
Throop, Jno. E. Sons Co., Trenton, N. J.
Throop, Wm. R., Trenton, N. J.

Vulcanizers (Tire & Tube)

Goodrich, B. F. Co., Akron, O.
Shaler, C. A. Co. ("Shaler" Electric), Wau-
puna, Wis.

Wagon Dump Boxes

Black Mfg. Co. ("Chicago" Quick Dumper),
120 E Ohio, Chicago, Ill.
Cator Dump Wagon Co., Palmyra, N. Y.
Eagle Wagon Works, Auburn, N. Y.
Everett Mfg. Co. ("Everett," Portable), New-
ark, N. J.
Flowers, Albert & Son, Camden, O.
GLEN WAGON CO. ("Star"), Seneca
Falls, N. Y. (See adv. index, end of
book)
Marion Dump Wagon Co., Marion, O.
Ohio Road Machinery Co. ("Ohio"), Oberlin,
Ohio
Tiffin Wagon Co., Tiffin, O.
TROY WAGON WORKS CO., Troy, O.
(See adv. index, end of book)
Turnbull Wagon Co., Defiance, O.

Wagon Tops (Three-Bow)

Troy Carriage Sun Shade Co. (For Wagons,
Trucks, etc.), Troy, O.

Wagons (Asphalt, Dump)

Briggs Labor Saving Specialty Co., Waterloo,
Iowa
Columbia Wagon Co., Columbia, Pa.
Eagle Wagon Works, Auburn, N. Y.
GLEN WAGON CO. ("Star"), Seneca
Falls, N. Y. (See adv. index, end of book)
Haywood Wagon Co. (Self-Dumping, Steel or
Wooden), Baldwinville, N. Y.
McNeil Boller Co., Akron, O.
Milburn Wagon Co., Toledo, O.
Shadbolt Mfg. Co., 68 Flushing av., Brooklyn,
N. Y.
Studebaker Bros. Mfg. Co., South Bend, Ind.
TROY WAGON WORKS CO. ("Troy").
100 East Race, Troy, O. (See adv. index,
end of book)
Watson Wagon Co., Canastota, N. Y.

Wagons (Baggage & Express)

(See Barrows, Baggage & Express)

Wagons (Builders')

Milburn Wagon Co., Toledo, O.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Watson Wagon Co., Canastota, N. Y.

Wagons (Coal Charging)

Kilbourne & Jacobs Mfg. Co. (Steel), Colum-
bus, O.
Lyon Metallie Mfg. Co. (Steel), Aurora, Ill.

Wagons (Coal & Coke)

Haywood Wagon Co. (For Coal Yards, Steel
or Wooden), Baldwinville, N. Y.

Wagons (Coaster)

Hunt, Helm, Ferris & Co. ("Star"), Harvard,
Ind.
Wabash Mfg. Co. ("Wabash" Express), Wa-
bash, Ind.

*Wagons (Contractors' Revers- ible Road Building)

TROY WAGON WORKS CO. ("Troy"),
100 E Race, Troy, O. (See adv. index,
end of book)

Wagons (Dumping)

Aeme Wagon Co., Emigsville, Pa.
Austin Mfg. Co. (Automatic), Manhattan Bldg.,
Chicago, Ill.
Blake, J. M. & Son, 54 Indiana, Buffalo, N. Y.
Briggs Labor Saving Specialty Co. ("Lightning"
Rear End), Waterloo, Iowa
Cator Dump Wagon Co., Palmyra, N. Y.
Climax Road Machine Co., Marathon, N. Y.
Columbia Wagon Co. ("Day's" Columbian
Dump Bottom), Columbia, Pa.
Connellsville Iron Works (Steel Body), New
Haven, Pa.
Duquesne Vehicle Co., 400 Duquesne Way,
Pittsburg, Pa.
Eagle Wagon Works, Auburn, N. Y.
GLEN WAGON CO. ("Star"), Seneca
Falls, N. Y. (See adv. index, end of book)
Haywood Wagon Co. (Steel & Wooden, Self-
Dumping, also Bottom & Rear End Dump),
Baldwinville, N. Y.
Hieber, F. W. Wagon Mfg. Co. ("Victor"),
Pittsburg, Pa.
Hill, Thos. (Steel), 312 Henderson, Jersey City,
N. J.
Indiana Road Machine Co. ("National"), Fort
Wayne, Ind.
Jack, J. H. ("Dayton"), Dayton, O.
Keystone Wagon Works ("Keystone" Patent
for Coal Only), Reading, Pa.
Koob Dumping Wagon Co. ("Koob" Bottom
Dump), Moline, Ill.
Kramer Wagon Co. ("Oil City"), Oil City, Pa.
Longenecker, Chas. & Co., 150 Nassau, New
York
Marion Dump Wagon Co., Marion, O.
MARYLAND EQUIPMENT & SUPPLY
Co., Calvert & Lafayette, Baltimore, Md.
(See adv. index, end of book)
Mast, P. P. & Co., Springfield, O.
Milburn Wagon Co. (Greater Pittsburg"), To-
ledo, O.
Port Huron Engine & Thresher Co., Port Huron,
Mich.
Schuttler, Peter Co., 1200 W 23d, Chicago, Ill.
Shadbolt Mfg. Co., 68 Flushing av., Brooklyn,
N. Y.
SHAW, WILLIS CO., 171 LaSalle,
Chicago, Ill. (See adv. index, end of
book)
Smith & Sons Mfg. Co. ("Royal"), Kansas City,
Mo.
Stroud, T. F. & Co. ("Little Red" Bottom
Dump), Omaha, Neb.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Tiffin Wagon Co., Tiffin, O.
TROY WAGON WORKS CO. ("Troy")
Bottom Dump), 100 E Race, Troy, O. (See
adv. index, end of book)
Universal Road Machinery Co. ("Reliance"),
120 Liberty, New York
Watson Wagon Co., Canastota, N. Y.
Western Wheeled Scraper Co. ("Aurora"), Au-
rora, Ill.

Wagons (Farm)

ALABAMA.

FLORENCE—Florence Wagon Works ("Flor-
ence")

ARKANSAS.

FORT SMITH—Fort Smith Wagon Co. ("Fort
Smith")
INGLE WAGON MFG. CO. ("Ingle")
JONESBORO—Jonesboro Wagon Co. ("Jones-
boro")

COLORADO.

DENVER—Plattner Implement Co.

GEORGIA.

ATLANTA—White Hickory Wagon Co. ("White
Hickory")
AUGUSTA—Lowry Wagon Works
COLUMBUS—Davis Wagon Co. ("Davis")

ILLINOIS.

ABINGDON—Abington Wagon Co. ("Abingdon," "Clinton," "Sterling")
 ALBION—Painter & Frankland ("Painter & Frankland")
 BATAVIA—Newton Wagon Co. ("Newton")
 CHICAGO—International Harvester Co. of America ("Bettendorf," "Columbus," "Weber")

Schuttler, Peter Co. ("Schuttler")
 DIXON—Grand Detour Plow Co.
 Grand Detour Wagon Co. ("Grand Detour")
 LINCOLN—Sheer, Eugene ("Sheer")
 MOLINE—Moline Wagon Co.
 OTTAWA—King & Hamilton Co. ("Ottawa")
 PEORIA—Avery Co. ("Peoria")
 Peoria Wagon Co. ("Peoria")
 QUINCY—Electric Wheel Co. ("Electric")
 Knapheide, Henry Wagon Co. ("Knapheide")

INDIANA.

ANDERSON—Rhoads, Samuel H. ("Rhoads")
 CORYDON—Keller Mfg. Co. ("Corydon")
 EVANSVILLE—Karges Wagon Co. ("Karges")
 FORT WAYNE—Olds Wagon Works ("Olds")
 HUNTINGBURG—Huntingburg Wagon Works ("Huntingburg")
 LAFAYETTE—Indiana Wagon Co. ("Indiana," "O'Brien")
 SOUTH BEND—Birdsell Mfg. Co. ("Birdsell")
 Hunt Bros. Mfg. Co.
 Studebaker Bros. Mfg. Co. ("Studebaker")
 WABASH—Wabash Mfg. Co.

IOWA.

BURLINGTON—Burg Wagon Co. ("Burg")
 Orchard City Wagon Co. ("Orchard City")
 CHARITON—Schreiber Carriage Mfg. Co. ("Schreiber")
 CLINTON—Fish Bros. Mfg. Co. ("Fish Bros.," "La Belle")
 DUBUQUE—Cooper, A. A. Wagon & Buggy Co. ("Columbus," "Cooper")
 FAIRFIELD—Turney, Joel & Co. ("Charter")
 LANSING—Rud, L. O. & Co. ("Rud") ("Oak")
 PELLA—Buerkens Mfg. Co. ("Buerkens")
 SHENANDOAH—O'Brien Wagon Works ("O'Brien")

KENTUCKY.

HENDERSON—Coquillard Wagon Works
 HICKMAN—Hickman Wagon Co.
 HOPKINSVILLE—Forbes Mfg. Co. ("Mogul")
 LOUISVILLE—Kentucky Wagon Mfg. Co. ("Kentucky," "Old Hickory," "Tennessee")
 MADISONVILLE—Madisonville Wagon Co. ("Madisonville")
 OWENSBORO—Hickman-Ebbert Co.
 Owensboro Wagon Co. ("Owensboro")

MICHIGAN.

FLINT—Flint Wagon Works ("Flint")
 GRAND RAPIDS—Belknap Wagon Co. ("Belknap")
 Harrison Wagon Co. ("Harrison")
 HILLSDALE—Hillsdale Truck & Wagon Co.
 HOLLY—Patterson & Brown Bros. Mfg. Co. ("Holly")
 IONIA—Ionia Wagon Co. ("Bible," "Capital")
 LANSING—Lansing Wagon Works
 MOUNT CLEMENS—Donaldson Bros. ("Donaldson")
 SAGINAW—Farmers' Handy Wagon Co.

MINNESOTA.

LAKE CITY—Neal, Johns & Co. ("Lake City")
 MINNEAPOLIS—Lenhart Wagon Co. ("Lenhart")
 SAUK CENTER—Keller Mfg. Co. ("Keller")
 WINONA—Winona Wagon Co. ("Rushford," "Winona")

MISSISSIPPI.

DURANT—Love Wagon Co.
 LAUREL—Lindsey Wagon Co. ("Lindsey")

MISSOURI.

CARROLLTON—Brocksmitth Wagon Co. ("Brocksmitth")
 EDINA—Miller Wagon Co. ("Miller")
 FARMINGTON—Lang & Bro. Mfg. & Merc. Co. ("Lang")
 HANNIBAL—Beggs-Goodson Wagon Co. ("Beggs-Goodson")
 KANSAS CITY—Beggs Wagon Co. ("Beggs")
 NEOSHO—Mutual Mfg. Co.
 ST. LOUIS—Gestring Wagon Co.
 Linstroth Wagon Co. ("Linstroth")
 Luedinghaus-Espenschied Wagon Co. ("Luedinghaus")
 Weber & Damm Wagon Co.
 SPRINGFIELD—Springfield Wagon Co. ("Springfield")

NEW YORK.

CANASTOTA—Watson Wagon Co.
 ITHACA—Williams Bros. ("Ithaca")
 MORAVIA—Cady, Geo. S. & Co. ("Walker")
 OLEAN—New Conklin Wagon Co. ("New Conklin")
 VERNON—Thomas Wagon Co. ("Thomas")

NORTH CAROLINA.

HICKORY—Piedmont Wagon Co. ("Hickory")
 WINSTON SALEM—Nissen, C. F. ("J. J. Nissen, Geo. E. & Co. ("Nissen") sen")

OHIO.

CINCINNATI—Bode Wagon Co. ("Bode")
 DEFIANCE—Turnbull Wagon Co. ("Turnbull")
 MARIETTA—Ohio Valley Wagon Co. ("Marietta")
 Tiffin Wagon Co. ("Tiffin")
 TOLEDO—Milburn Wagon Co. ("Milburn")
 TROY—TROY WAGON WORKS CO. ("Troy"). 100 East Race. (See adv. index, end of book)
 ZANESVILLE—Brown Mfg. Co. ("Brown")

PENNSYLVANIA.

BROOKVILLE—Brookville Mfg. Co. ("Brookville")
 COLUMBIA—Columbia Wagon Co. ("Columbian")
 ELIZABETHVILLE—Swab Wagon Co. ("Swab")
 EMIGSVILLE—Acme Wagon Co. ("Acme")
 OIL CITY—Kramer Wagon Co. ("Oil City")

TENNESSEE.

CHATTANOOGA—Chattanooga Wagon Co. ("Chattanooga")
 MEMPHIS—Bodley Wagon Co.
 James & Graham Wagon Co. ("James & Graham")

TEXAS.

BRENNHAM—Schuerenberg, F. W. (Est. of) ("Schuerenberg")

VIRGINIA.

LYNCHBURG—Thoruhill Wagon Co. ("Thornhill")
 MARION—Look & Lincoln ("Look & Lincoln")
 SOUTH BOSTON—Virginia Wagon Co.

WEST VIRGINIA.

MARTINSBURG—Auburn Wagon Co. ("Auburn")

WISCONSIN.

FOND DU LAC—Sweet, B. F. & H. L. Co.
 FORT ATKINSON—Northwestern Mfg. Co. ("Northwestern")
 GRAND RAPIDS—MacKinnon, F. Mfg. Co. ("MacKinnon")
 JEFFERSON—Vaughn Mfg. Co. ("Jefferson")
 KENOSHA—Bain Wagon Co. (Ltd.) ("Bain")
 LA CROSSE—Smith Mfg. Co. ("La Crosse," "Smith")
 MADISON—Fuller & Johnson Mfg. Co. ("Badger," "Fuller & Johnson," "Madison")
 OSHKOSH—Streich, A. & Bro. Co. ("Streich")
 RACINE—Fish Bros. Wagon Co. ("Fish Bros.")
 Mitchell & Lewis Co. (Ltd.) ("Mitchell")
 Racine-Sattley Co. ("Racine")
 RANDOLPH—Randolph Wagon Works ("Randolph")
 STOUTHTON—Mandt Wagon Co. ("Mandt")
 Stoughton Wagon Co. ("Stoughton")

*Wagons (Farm, Electric)

ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)

Wagons (Freight, Teaming, Etc.)

Akron-Salle Co., Akron, O.
 Auburn Wagon Co., Martinsburg, W. Va.
 Bain Wagon Co. (For Freight, etc.), Kenosha, Ws.
 Bodley Wagon Co. (Up to 30 Tons), Memphis, Tenn.
 Egle Wagon Works (Freight), Auburn, N. Y.
 Fish Bros., Wagon Co., Racine, Wis.
 Haywood Wagon Co. (Heavy Machinery), Baldwinville, N. Y.
 Hillsdale Truck & Wagon Co., Hillsdale, Mich.
 Knapheide, Henry Wagon Co., Quincy, Ill.
 Leonhardt Wagon Mfg. Co., 412 E. Saratoga, Baltimore, Md.
 Milburn Wagon Co., Toledo, O.
 Schuttler, Peter Co., 1200 W. 22d, Chicago, Ill.
 Studebaker Bros. Mfg. Co., South Bend, Ind.
 TROY WAGON WORKS ("Troy"), 100 East Race, Troy, O. (See adv. index, end of book)
 Watson Wagon Co., Canastota, N. Y.

Wagons (Garbage)

Briggs Labor Saving Specialty Co., Waterloo, Iowa
 Columbia Wagon Co., Columbia, Pa.
 GLEN WAGON CO., ("Star"), Seneca Falls, N. Y. (See adv. index, end of book)
 Haywood Wagon Co. (Steel & Wood), Baldwinville, N. Y.
 Leonhardt Wagon Mfg. Co., 412 E. Saratoga, Baltimore, Md.
 Shadbolt Mfg. Co. (Dumping), 68 Flushing av., Brooklyn, N. Y.
 Studebaker Bros. Mfg. Co., South Bend, Ind.
 TROY WAGON WORKS CO. ("Troy"), 100 East Race, Troy, Ohio. (See adv. index, end of book)
 Watson Wagon Co., Canastota, N. Y.

Wagons (Grading)

Briggs Labor Saving Specialty Co. ("Lighting," rear end), Waterloo, Iowa. Works, Harvey, Ill.
 GLEN WAGON CO., ("Star"), Seneca Falls, N. Y. (See adv. index, end of book)
 Watson Wagon Co., Canastota, N. Y.

*Wagons (Handy)

TROY WAGON WORKS CO. ("Troy"), 100 East Race, Troy, O. (See adv. index, end of book)

Wagons (Hose)

Seagrave Co., Columbus, O.
 Stewart, A. F. & S. C., Rochester, N. Y.
 Webb Motor Fire Apparatus Co. (Automobile), Vincennes, Ind.

Wagons (Ice)

Akron-Selle Co., Akron, O.
 Hillsdale Truck & Wagon Co., Hillsdale, Mich.
 Keystone Wagon Works, Reading, Pa.
 Leonhardt Wagon Mfg. Co., 412 E. Saratoga, Baltimore, Md.
 Milburn Wagon Co., Toledo, O.
 Studebaker Bros. Mfg. Co., South Bend, Ind.

Wagons (Larry Coke)

Niles Mine & Mill Supply Co., Cleveland, O., & Niles, O.
 Phillips Mine & Mill Supply Co., Pittsburg, Pa.

Wagons (Laundry)

Armleder, O. Co., Cincinnati, O.
 Koenig & Luhrs Wagon Co., Quincy, Ill.
 Leonhardt Wagon Mfg. Co., 412 E. Saratoga, Baltimore, Md.
 Milburn Wagon Co., Toledo, O.

Wagons (Logging)

Bodley Wagon Co., Memphis, Tenn.
 Diamond Iron Works ("Diamond" Roll-Off), Minneapolis, Minn.
 ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
 Fish Bros. Wagon Co., Racine, Wis.
 Florence Wagon Works, Florence, Ala.
 Haywood Wagon Co. (Heavy), Baldwinville, N. Y.
 Hillsdale Truck & Wagon Co., Hillsdale, Mich.
 Ingle Wagon Mfg. Co., Fort Smith, Ark.
 Leonhardt Wagon Mfg. Co., 412 E. Saratoga, Baltimore, Md.
 Lindsey Wagon Co. (Eight Wheels, etc.), Laurel, Miss.
 Luedinghaus-Espenschied Wagon Co., 1715 N B'way, St. Louis, Mo.
 Milburn Wagon Co., Toledo, O.
 Phoenix Mfg. Co., Eau Claire, Wis.
 Racine-Satterly Co., Racine, Wis.
 Roesch, Fred, Little Rock, Ark.
 Sanford, A. Logging Tool Co., Oshkosh, Wis.
 Schuttler, Peter Co., 1200 W. 22d, Chicago, Ill.
 Schwartz, Jos. Co. (Ltd.), 821 Perdido, New Orleans, La.
 Studebaker Bros. Mfg. Co., South Bend, Ind.
 TROY WAGON WORKS CO. ("Troy"), 100 E Race, Troy O. (See adv. index, end of book)
 White Hickory Wagon Mfg. Co., East Point, Ga.
 Zelnicker, Walter A. Supply Co., 408 N 4th, St. Louis, Mo.

Wagons (Lumber)

Florence Wagon Works, Florence, Ala.
 Fort Smith Wagon Co., Fort Smith, Ark.
 Ingle Wagon Co., Fort Smith, Ark.
 Leonhardt Wagon Mfg. Co., 412 E. Saratoga, Baltimore, Md.



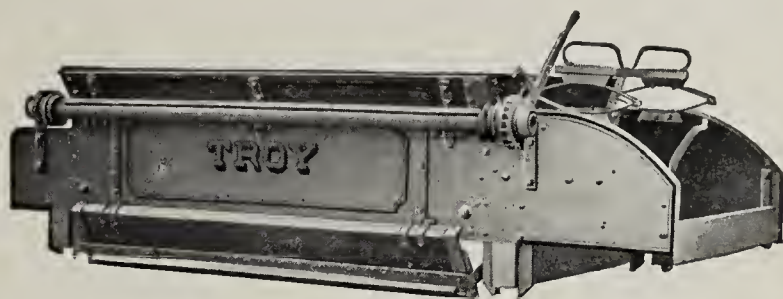
TROY BOTTOM-DUMP WAGONS

make money for their owners by saving it. They save time; they save repair bills and are good for many years' use; they save the load—can't lose any of it until driver releases the dumping device, then contents drop immediately beneath the wagon.

The bottom-doors are reinforced steel plates, one overlapping the other at center when closed—always a tight bottom, never swelled or sprung by wet weather or wet loads. Only two chains to lift the doors and they are outside of box, one at either end. The Simplest, Strongest, Most Serviceable Dump Wagons—made on correct wagon making and mechanical lines, and would do your work with more satisfaction to you than any other. Send for Catalog H.

TROY DUMP BOXES

will fit and convert any ordinary wagon gear into a dump wagon at an exceedingly small expense. These boxes have four bottom doors, made of reinforced steel plates, close perfectly tight with lap joints; and are equipped with practically the same simple and effective door-lifting and dumping device that has made TROY Dump Wagons famous. Full description in our Bulletin H, gladly sent on request.



THE TROY WAGON WORKS COMPANY

100 East Race Street, TROY, OHIO

STAR DUMPING WAGONS



For good road building, grading, street paving, garbage collection and street sweepings. Made in capacities of from one to seven yards. These are high grade Wagons, short wheel base, simple foot trip, iron work all wrought forgings, guaranteed to stand steam shovel loading. Most liberally constructed Wagon on the market. Get our prices before purchasing.

ASK FOR CATALOG "C."

Glen Wagon Company

10 TO 20 OAK STREET
SENECA FALLS, N. Y.

Has it ever occurred to you how useful a Dump Wagon can be made around a manufacturing plant? Ask the yard man.

IF YOU ARE IN DOUBT AS TO THE
ORIGINAL MANUFACTURER OF
ANY MACHINE OR TOOL ON WHICH
THE PATENTS HAVE EXPIRED, THAT
ARE NOW BEING EXPLOITED BY MANY
MAKERS, ASK HENDRICKS.

INDUSTRIAL INFORMATION

Q We maintain a Bureau of Information for the free use of Architects and Engineers and all who promote the interests of this publication by either advertisement or subscription and we are prepared at all times to furnish our patrons with the most reliable information about any particular kind of material, machine, tool or specialty which they may require. :: :: :: :: ::

==== **Hendricks'** =====
Commercial Register

Milburn Wagon Co., Toledo, O.
Sweet, B. F. & H. L. ("Sweet's" Patent), Fond
du Lac, Wis.
Williams Bros., Ithaca, N. Y.

Wagons (Lunch)

Harris Car Co. ("White House Cafe"), Wor-
cester, Mass.

*Wagons (One-Horse)

ELECTRIC WHEEL CO., Quincy,
Ill. (See adv. index, end of book)
TROY WAGON WORKS CO. ("Troy"),
100 E Race, Troy, O. (See adv. index, end
of book)

Wagons (Ore, Coal & Mining)

Akron Cultivator Co. (Steel), Akron, O.
Bettendorf Axle Co. (Steel Gear, Coal, Farm,
etc.), Davenport, Iowa
Briggs Labor Saving Specialty Co. ("Lightning,"
Coal), Waterloo, Ia.
Connellsville Machine & Car Co. (Plt), Con-
nellsville, Pa.
Hillsdale Truck & Wagon Co. (Coal Only),
Hillsdale, Mich.
Honhorst, Joseph Co. (Coal), Cincinnati, O.
Jackson Mfg. Co. (Steel), Harrisburg, Pa.
KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)
Leonhardt Wagon Mfg. Co., 412 E Saratoga,
Baltimore, Md.
Milburn Wagon Co., Toledo, O.
Turl's, John Sons (Inc.), 26 Cortlandt, New
York. Works, Newburgh, N. Y.
Schuttler, Peter Co., 1200 W 22d, Chicago, Ill.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Watson Wagon Co., Canastota, N. Y.

ERNST WIENER •COMPANY•

475 Fulton bldg, New York. (See adv.
index & branch offices, end of book)

Wagons (Police & Fire Patrol)

Fulton & Walker Co., 20th & Filbert, Phila.,
Pa.
Leonhardt Wagon Mfg. Co., 412 E Saratoga,
Baltimore, Md.

Seagrave Co., Columbus, O.
Stewart, A. F. & S. C., Rochester, N. Y.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Wayne Sulkyette & Road Cart Co., Decatur, Ill.

Wagons (Self-Dumping)

Haywood Wagon Co. (Steel or Wooden),
Baldwinsville, N. Y.
Indiana Road Machine Co., Fort Wayne, Ind.
Watson Wagon Co., Canastota, N. Y.

Wagons (Stave)

Stralt, H. N. Mfg. Co., Kansas City, Mo.

Wagons (Steel)

Bruer Steel Wagon Co. ("Bruer" Pressed
Steel), Wapakoneta, O.
ELECTRIC WHEEL CO., Quincy, Ill.
(See adv. index, end of book)
Shunk Plow Co. (Farm Wagons), Bucyrus, O.

Wagons (Stone)

Steam Stone Cutter Co. (For Quarries or Heavy
Stone Hauling), Rutland, Vt.
Watson Wagon Co., Canastota, N. Y.

Wagons (Stone Spreading)

Haywood Wagon Co. (Steel or Wooden),
Baldwinsville, N. Y.

Wagons (Sugar)

ELECTRIC WHEEL CO. (Also Sugar Cane
Carts), Quincy, Ill. (See adv. index, end
of book)
KOPPEL, ARTHUR CO., Machesney
bldg, Pittsburg, Pa. (See adv. index &
branch offices, end of book)
Leonhardt Wagon Mfg. Co., 412 E Saratoga,
Baltimore, Md.
Sheffield Car Co., Three Rivers, Mich.
Turl's, John Sons (Inc.), 26 Cortlandt, New
York. Works, Newburgh, N. Y.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES. ERNST WIENER •COMPANY•

475 Fulton bldg, New York. (See adv.
index & branch offices, end of book)

Wagons (Trolley)

ANDERSON FORGE & MACHINE CO.
(Pole Raising), 271 Guoin, Detroit, Mich.
(See adv. index, end of book)
Briggs Carriage Co., Amesbury, Mass.
Leonhardt Wagon Mfg. Co., 412 E Saratoga,
Baltimore, Md.
McCardell, J. R. & Co., Trenton, N. J.
Milburn Wagon Co., Toledo, O.
Winona Wagon Co., Winona, Minn.

Wagons (Wire Nail)

Howe Scale Co., Rutland, Vt.

Wall Boards

AMERICAN CONCRETE CO. (Fire-
proof), 80 William, New York. (See adv.
index, end of book)
BEAVER MFG. CO., THE ("Beaver"),
(Finished, Indurated & Fireproof), 228 Perry,
Buffalo, N. Y. (See adv. index, end of book)

BEAVER BOARD
The Modern Wall & Ceiling Material
Takes Place of Both Lath and Plaster



Sackett Plaster Board Co. ("Sackett's"), 17
Battery pl, New York

Wall Burlaps & Canvas

(See Wall Coverings)

Wall Coping Mfrs.

(See Sewer Pipe Manufacturers; also Terra
Cotta, Architectural)

Wall Coverings

BEAVER MFG. CO., THE ("Beaver"),
228 Perry, Buffalo, N. Y. (See adv. index,
end of book)

BEAVER BOARD
The Modern Wall & Ceiling Material
Takes Place of Both Lath and Plaster



Chase, L. C. & Co. ("Standard" Leather Substi-
tute), 89 Franklin, Boston, Mass.
Cot-A-Lap Co. (Burlaps & Canvas), New
Haven, Conn.
Leatherole Co. ("Leatherole" & "Sanatite" San-
itas Waterproof, 24 E 22d, New York
Lloyd, W. H. S. Co. ("Salamander"). Fire
Proof, 26 E 22d, New York
Richter Mfg. Co. ("Tapestrolca" Burlaps &
Canvas), Tenaflly, N. J.
Standard Table Oil Cloth Co. ("Sanatas" Wash-
able Cloth), 320 R'way, New York
Tex-Ta-Dor-Na Mfg. Co. (Burlaps & Canvas),
Columbus, Ohio
Turner, J. Spencer Co. (Burlaps & Canvas),
86 Worth, New York
Wemple, Jay C. Co. ("Royal" Burlaps & Can-
vas), 35 E 20th, New York
Wiggins, H. B. Sons Co. ("Fab-Ri-Ko-Na"),
Bloomfield, N. J.

Wall Finish

(The Trade Names of these Finishes are between
each firm's name and address)

Alabastine Co. ("Alabastine"), Grand av &
G. R. & I. R'y, Grand Rapids, Mich.
AMERICAN CONCRETE CO., 80 WIL-
liam, New York. (See adv. index, end
of book)
American Soapstone Finish Co. (Soapstone),
Chester Depot, Vt.
Anti-Kalsomine Co., Grand Rapids, Mich.

Cardiff Gypsum Plaster Co. ("Kallolite"),
Fort Dodge, Iowa
Casein Co. of America ("Indurine"), 5 Nas-
sau, New York
Diamond Wall Finish Co. ("Diamoud"),
Grand Rapids, Mich.
Fox, M. Ewing & Co. ("Permanite"), 240 E
136th, New York
Keystone Plaster Co. ("Adamant"), Sales
Office, 16 S Broad, Phila., Pa. Works,
Chester, Pa.
Manhattan Color Works ("Fres-Ko-Kote"), 197
Amsterdam av, New York
Moore Benjamin & Co. ("Muresco"), 262 Wa-
ter, Brooklyn, N. Y.
Muralo Company, New Brighton, Boro of Rich-
mond, N. Y.
New Buffalo Eureka Wall Finish & Mineral
Paint Co., New Buffalo, Mich.
Ohio & Western Lime Co. ("Standard" Rock),
Huntington, Ind.
Paragon Wall Plaster Co., Syracuse, N. Y.
Shoemaker, Robert & Co. (Encaustic Compound),
4th & Race, Phila., Pa.
Troy Cold Water Kalsomine Co., 22 Paine,
Troy, N. Y.
TRUSSED CONCRETE STEEL CO.,
Trussed Concrete bldg, Detroit, Mich. (See
adv. index & branch offices, end of book)
United States Gypsum Co. (Lime & Cementus),
200 Monroe, Chicago, Ill., & Cleveland, O.
Water Paint Co. ("Crown" & "Petrol" Brands),
100 William, New York
Whittaker, W. H. ("Continental"), 245 Front,
New York
Wotherspoon Plaster Mills, 1170 B'way, New
York, & 725 Vernon av, Long Island City,
N. Y.

Wall Paper (Fire-Proof)

Ehret Magnesia Mfg. Co., Land Title Bldg.,
Phila., Pa.
Gilmour, R. M. Mfg. Co., 105 John, New York

Wall Paper Mfrs.

Allen-Higgins Co., Worcester, Mass.
Art Wall Paper Mills, 1005 W 21st, Chicago,
Ill.
Audebert Wall Paper Mills, 218 La Salle, Chi-
cago, Ill.
Bacck Wall Paper Co., 630 W 52d, New York
Bailey Wall Paper Co., 1915 W. 96th, N. W.,
Cleveland, O.
Beck, F. & Co., 206 W 29th, New York
Becker, Smith & Page (Inc.), Snyder av & S
Water, Phila., Pa.
Blrge, M. H. & Sons Co., Buffalo, N. Y.
Campbell, Wm. Wall Paper Co., Hackensack,
N. J.
Carey Bros. Co., 2228 N 10th, Phila., Pa.
Cecil Paper Co. (Hanging Papers), York, Pa.
Chicago Wall Paper Mills, 47 S Jefferson, Chi-
cago, Ill.
Enterprise Wall Paper Co., 233 N Water,
Fairfax Bros., Geneva, N. Y. Phila., Pa.
Geneva Wall Paper Co., Geneva, N. Y.
Gledhill Wall Paper Co., 543 W 34th, New York
Graves, Robert Co., 483 5th av., New York
Hobbs, Benton & Heath, Hoboken, N. J.
Imperial Wall Paper Co., Glens Falls, N. Y.
Ithaca Wall Paper Mills, Ithaca, N. Y.
Janeway & Carpenter, New Brunswick, N. J.
Janeway & Co., New Brunswick, N. J.
McIlvaine, T. J. & Co., Langhorne, Pa.
Maxwell, S. A. & Co., 121 Crosby, New York
Potter Wall Paper Mills, Hoboken, N. J.
Quaker City Wall Paper Co., E Thompson &
E Westmoreland, Phila., Pa.
Standard Wall Paper Co., Sandy Hill, N. Y.
Star Wall Paper Mills, Joliet, Ill.
Strahan, Thos. Co., Chelsea, Mass.
Sun Wall Paper Co., Reading, Pa.
Syracuse Paper & Pulp Co., Syracuse, N. Y.
Thomas, Jacob Co., Newark, Del.
Trenton Oil Cloth & Linoleum Co. (Washable),
Trenton, N. J.
Wallace Wall Paper Co., Cortland, N. Y.
York Card & Paper Co., York, Pa.
York Wall Paper Co., York, Pa.

*Wall Plug & Tie (Combined)

HUNT METAL CORNER CO., West-
boro, Mass. (See adv. index, end of book)

Wall Plugs

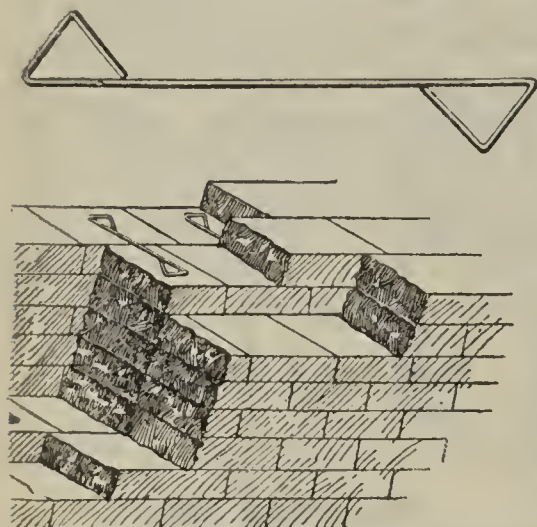
Carlson Sales Co. ("Carlson" Steel), Oskaloosa,
Iowa
Dowman-Dozier Mfg. Co., Atlanta, Ga.
HUNT METAL CORNER CO., West-
boro, Mass. (See adv. index, end of book)
Hubbell, Harvey (Inc.), Bridgeport, Conn.

NIAGARA FALLS METAL STAMPING
Works (Galvanized), Niagara Falls, N. Y.
(See adv. index, end of book)
Prescott, J. B. & Son ("Rutty" Metal), Webster, Mass.
Pittsburg Channel Pine Co. ("Lincoln"), Malley bldg., New Haven, Conn.

Wall Ties

(See also Veneer & Wall Ties)

AMERICAN ROLLING MILL CO.
("Miami," "Bull Dog"), Middletown, O.
(See adv. index, end of book)
Cargill Mfg. Co. ("International"), Buttlers av., Columbus, O.
CINCINNATI WALL TIE CO. (Steel),
206 E 5th, Cincinnati, O. (See adv. index, end of book)



CINCINNATI WALL TIE CO
206 East 5th St., CINCINNATI, O.

CLASON ARCHITECTURAL METAL
Works, 428 Kinsley av., Providence, R. I.
(See adv. index, end of book)
Crescent Co. ("Crescent"), Valparaiso, Ind.
Dowman-Dozier Mfg. Co., Atlanta, Ga.
Duplex Hanger Co., Cleveland, O.

GENERAL FIREPROOFING CO.
("Double Crimp"), Youngstown, O., & 10 E 3d, New York. (See adv. index & branch offices, end of book)

Hamblin & Russell Mfg. Co. ("Standard" Perforated Steel), Worcester, Mass.
Harry, O. K. Steel Works, Dallas, Texas

HUNT METAL CORNER CO. ("Bull Dog," "Twin Wire" & "Never Split"),
Westboro, Mass. (See adv. index, end of book)

Hurd & Haggin ("New Yorker"), 316 Hudson, New York

Levering, O. D. ("Capitol," "Buckeye," "Hercules"), 82 N 4th, Columbus, O.
McDowell Mfg. Co. ("Pittsburg" Steel), Pittsburg, Pa.

MERRITT & CO. (Expanded Metal),
94 Arch, Camden, N. J. (See adv. index, end of book)

Minnesota Tank Co., Minneapolis, Minn.

NIAGARA FALLS METAL STAMPING
Works ("Niagara," also Veneer Ties, 12 in. Galvanized for Concrete Block Walls).
Niagara Falls, N. Y. (See adv. index, end of book)

Patterson Coal & Supply Co. ("Leader"), Successor to Specialty Mfg. Co., Pittsburg, Pa.
Peters, Jas. & Son (Steel), 1934 N Front, Phila., Pa.

Pittsburg Channel Pine Co. ("Lincoln"), Malley bldg., New Haven, Conn.
Prescott, J. B. & Son ("Morse" Ties & Bonds), Webster, Mass.

RIESECK, P. (Wrought Steel),
Allegheny av & Rebecca, Pittsburg, Pa. (See adv. index, end of book)

St. Paul Roofing, Cornice & Ornament Co. ("St. Paul" Brick Bonds), St. Paul, Minn.

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index, end of book)

Taft's Eagle Claw Wall Tie Co. ("Taft's Eagle"), Topeka, Kan.

Union Building Material Co. ("Union"), 1 Madison av., New York

Union Specialty Co. ("Union"), Arrot Power bldg., Pittsburg, Pa.

Willis Mfg. Co., Galeburg, Ill.

Wire Specialty Co. (Wire), 43 Fulton, Chicago, Illinois

WRIGHT WIRE CO. ("Clinch"),
Worcester, Mass. (See adv. index & branch offices, end of book)

Wardrobes (Office)

Bates, John T., Grand Rapids, Mich.
Hofman, John Co., 35 S. Water, Rochester, N. Y.
Sargent Mfg. Co., Muskegon, Mich.

*Wardrobes (Steel Fireproof)

DAHLSTROM METALLIC DOOR CO.,
Jamestown, N. Y. (See adv. index & branch offices, end of book)

Wardrobes (Ventilated, School & Hotel)

BERGER MFG. CO., THE. Main Office & Works, Canton, O. (See adv. index & branch offices, end of book)

BOLLES, J. E. IRON & WIRE
Works, Detroit, Mich. (See adv. index, end of book)

Flexifold Door & Shutter Co. ("Flexifold"), 10 E Worcester, Worcester, Mass.

GENERAL FIREPROOFING CO.,
Youngstown, O. (See adv. index & branch offices, end of book)

MERRITT & CO., 94 Arch, Camden,
N. J. (See adv. index, end of book)

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago. (See adv. index, end of book)

WILSON, JAS. G. MFG. CO. Chief Office, 3 W 29th, New York. Mills & Factory, Norfolk, Va. (See adv. index, end of book)

Wash Trays (Porcelain)

(See Bath Tuhs, Porcelain)

Washboard Mfrs.

American Mfg. & Novelty Co. ("Warren"), Erie, Pa.
Globe Mfg. Co., Tiffin, O.

Hooper, J. H., Biddeford, Me.
Kanneberg Roofing & Ceiling Co. (Metal), Canton, O.

Luther, Henry Co., Berlin, Wis.
Wabash Screen Door Co., 115 Adams, Chicago, Ill.

Washers (Air)

Buffalo Forge Co. ("Buffalo"), Buffalo, N. Y.
Donaldson Co. ("Eureka" Air Washer & Humidifier), 7333 Wentworth av., Chicago, Ill.

New York Blower Co., 25th pl. & Stewart av., Chicago, Ill.; Works: Bucyrus, O.

THOMAS & SMITH (Inc.), 17 S. Carpenter, Chicago, Ill., & 288 Hudson, New York. (See adv. index, end of book)

Washers (Air Brake)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York. (See adv. index & branch offices, end of book)

Continental Rubber Works, Erie, Pa.
Darling Pump & Mfg. Co., Williamsport, Pa.

New Jersey Car Spring & Rubber Co., Jersey City, N. J.

PENNSYLVANIA RUBBER CO.,
Jeannette, Pa. (See adv. index & branch offices, end of book)

U. S. Indestructible Gasket Co., 50 Church, New York

*Washers (Aluminum)

PHOENIX SPECIALTY MFG. CO., 48
Duane, New York. (See adv. index, end of book)

Washers (Basket)

Tower Mfg. Co., Commerce & Elm, Cincinnati, O., & Madison, Ind.

Washers (Bottle & Tumbler)

Whiteman Mfg. Co. ("Lighting"), Canton, O.

Washers (Brass & Copper)

American Iron & Steel Mfg. Co., Lebanon, Pa.
Benedict & Burham Mfg. Co., Waterbury, Conn.

BETTCHEER MFG. CO., Clark av. at
C C C & St. L Ry, S W, Cleveland, O.
(See adv. index, end of book)

Brass Goods Mfg. Co., cor. Nevins & Union, Brooklyn, N. Y.)

Bridgeport Brass Co., Bridgeport, Conn.
Chicago Nut Co., 118 W Jackson boul., Chicago, Ill.

Gaynor & Mitchell Mfg. Co. (Brass for Steam, Gas & Water Fittings), Bridgeport, Conn.

Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hobbs Mfg. Co., Worcester, Mass.

HUNGERFORD, U. T. BRASS & COPPER Co. (Mfrs.' Agts.), 497 Pearl, New York

Humphrey, H. W., Unionville, Conn.
Nictown Plate Washer Co. (Brass), Nictown, Phila., Pa.

PHOENIX SPECIALTY MFG. CO., 48
Duane, New York. (See adv. index, end of book)

Plume & Atwood Mfg. Co., Waterbury, Conn.
Quadruga Mfg. Co., 18 S. Canal, Chicago, Ill.

Rome Brass & Copper Co., Rome, N. Y.
Steele & Johnson Mfg. Co., Waterbury, Conn.

U. S. Indestructible Gasket Co., 50 Church, New York

WOELKNER & HARRY MANUFACTURING Co., 125 Woodbridge, W, Detroit, Mich. (See adv. index, end of book)

Waterbury Brass Co., Waterbury, Conn.
Waterbury Mfg. Co. (Brass Only), Waterbury, Conn.

Washers (Car Box)

(See Washers, Fibre, Etc.)

Washers (Cast Iron)

American Iron & Steel Mfg. Co. (& Spools), Lebanon, Pa.

Bethlehem Foundry & Machine Co. ("Star"), Front, South Bethlehem, Pa.

CANTON FOUNDRY & MACHINE CO.,
Canton, O. (See adv. index, end of book)

Cheney, S. & Son, Manlius, N. Y.
Columbus Bolt Works, Columbus, O.

Haskell, W. H. Mfg. Co., Pawtucket, R. I.
Hoopes & Townsend Co., 1330 Buttonwood, Phila., Pa.

Keagy & Lear Machine Co., Coshocton, O.
King & Andrews Co. (Cast Iron), 37 N State, Chicago Heights, Ill.

Lanz, M. & Sons, 101 S 29th, Pittsburg, Pa.

MACKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Milton Mfg. Co., Milton, Pa.
Moran Bolt & Nut Mfg. Co., St. Louis, Mo.

National Bolt & Nut Co., Pittsburg, Pa.
National Supply Co., 7 W. Lombard, Baltimore, Md.

Nictown Plate Washer Co., Nictown, Phila., Pa.

Oliver Iron & Steel Co., Pittsburg, Pa.
Payne's Bolt Works, San Francisco, Cal.

Price-Evans Foundry Co., Chattanooga, Tenn.
South Baltimore Steel Car & Foundry Co., Baltimore, Md.

Stiles Foundry & Supply Co., Parkersburg, W. Va.

Upson Nut Co., Unionville, Conn., & Cleveland, Ohio

Western Foundry & Sash Weight Co., 159 Miller, St. Louis, Mo.

Wichita Mfg. Co., Wichita, Kan.

Washers (Fibre)

(See also Fibre Manufacturers, Hard)

AMERICAN VULCANIZED FIBRE Co. (Vulcanized for Cock, Spigot, Tap, etc.), Wilmington, Del. (See adv. index, end of book)

Barwood, L. J. Co., 387 Albany, Boston, Mass.

DELAWARE HARD FIBRE CO.
(Cock, Spigot, Tap, etc.), Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)

DIAMOND STATE FIBRE CO. (For All Purposes), Elsmere, Del. (See adv. index, end of book)

Leatherold Mfg. Co., Kennebunk, Me., & 108 Lincoln, Boston, Mass.

PHOENIX SPECIALTY MFG. CO., 48
Duane, New York. (See adv. index, end of book)

Quadruga Mfg. Co., 18 S. Canal, Chicago, Ill.
Spaulding, J. & Sons Co. (Hard Fibre), North Rochester, N. H.

WILMINGTON FIBRE SPECIALTY
Co., Wilmington, Del. (See adv. index,
end of book)

Washers (Friction)

Morgan Spring Co., Worcester, Mass.

Washers (Galvanized)

BETTCHER MFG. CO., Clark av. at
C C C & St. L Ry, S W, Cleveland, O.
(See adv. index, end of book)
Keystone Nail Co., Phila., Pa.
National Bolt & Nut Co., Pittsburg, Pa.
Nictown Plate Washer Co., Nictown, Phila.,
Pa.

Washers (Graphite)

Graphite Lubricating Co., Boundbrook, N. J.

Washers (Insulating)

AMERICAN VULCANIZED FIBRE
Co., Wilmington, Del. (See adv. index,
end of book)

DELAWARE HARD FIBRE CO., Wil-
mington, Del. Works, Marshalltown, Del.
(See adv. index, end of book)

DIAMOND STATE FIBRE CO., Eis-
mere, Del. (See adv. index, end of book)
Eureka Supply Co. (Fibre Insulators), Camden,
N. J.

Fox, Jno. M. & Co. ("Fibrine"), Portland, Me.
Henderson Electric Co., 119 Evanston av., Chi-
cago, Ill.

Indiana Leather Stamping Co., Indianapolis,
Ind.

Johns, H. W.-Manville Co., 100 William, New
York

Leatheroid Mfg. Co., Kennebunk, Me., & 108
Lincoln, Boston, Mass.

Mica Insulator Co., 68 Church, New York
Morley Mfg. Co. ("Milonite," "Perfection,"
Nails), Boston, Mass.

Parker & Hafner, Williamsport, Pa.
Rhode Island Washer Co., Valley Falls, R. I.

Salem Leather Co., Salem, Mass.
Schoonmaker, Adrian O., 221 Fulton, New York

Sills, W. H. Mica Co., 64 Michigan, Chicago,
Ill.

U. S. Indestructible Gasket Co. (Asbestos),
50 Church, New York

WESTINGHOUSE ELECTRIC & MFG.
Co., Union Bank bldg, Pittsburg, Pa. (See
adv. index & branch offices, end of book)

WILMINGTON FIBRE SPECIALTY
Co., Wilmington, Del. (See adv. index,
end of book)

Washers (Iron & Steel)

Aetna Nut Co. (Wrought Iron), Southington,
Conn.

American Iron & Steel Mfg. Co., Lebanon, Pa.
Avery Stamping Co. (Wrought Steel), Cleve-
land, O.

Beall Bros. (Inc.) (Wrought), Alton, Ill.
BETTCHER MFG. CO., Clark av. at
C C C & St. L Ry, S W, Cleveland, O.

(See adv. index, end of book)
Bourne & Knowles Mfg. Co., 1231 Main av.,
N W, Cleveland, O.

Chisholm Steel Shovel Works (Steel Plate),
Cleveland, O.

Cincinnati Screw & Tap Co., Twilightce, O.
Clark Bros. Bolt Co., Milledale, Conn.
Clark & Cowles, Plainville, Conn.
Cobb & Drew, Plymouth, Mass., & Rock Falls,
Columbus Bolt Works, Columbus, O.

Continental Bolt & Iron Works, 22d & Union,
Chicago, Ill.

Corbin Screw Corporation, New Britain, Conn.
Dietrich Bros., 344 North, Baltimore, Md.

Eastern Bolt & Nut Co., Providence, R. I.
Falls Rivet & Machine Co., Cuyahoga, O.
Graham Nut Co., W. Carson nr. Point Bridge,
Pittsburg, Pa.

Greenlie, Wyatt & Co., 499 Water, New York
Griffin Mfg. Co. (Wrought), Erie, Pa.

Hager, C. & Sons Hings Mfg. Co., 2427 De
Kalb, St. Louis, Mo.

Hall's, Sam'l Sons, 229 W 10th, New York
Haskell, Wm. H. Mfg. Co., Pawtucket, R. I.
Hazel Atlas Glass Co., Wheeling, W. Va.

Hoopes & Townsend Co., 1330 Buttonwood, Phil-
adelphia, Pa.

Hubbard & Co., Pittsburg, Pa.
Humphrey, H. W., Unionville, Conn.

Judson Mfg. Co., San Francisco, Cal.
Kansas City Bolt & Nut Co., Kansas City, Mo.

Krips-Mason Machine Co. (Wrought, "Blue
Ribbon," "K. M." Washers, Satin Fin-

ish), 1636 N Hutchinson, Phila., Pa.
Lake Erie Iron Co., Wade Bldg, Cleveland, O.
Lamson & Sessions Co. (Plate, etc.), Cleve-
land, O.

Lanman, E. B. Co. (Wrought Iron), Columbus,
Ohio

Lanz, Mathew & Sons (Square & Round), 101 S
29th, Pittsburg, Pa.

McKinney Mfg. Co. (Steel), Allegheny, Pa.
Meyer & Co., Anshurn, N. Y.

Michigan Bolt & Nut Works, Detroit, Mich.
Milton Mfg. Co., Milton, Pa.

Moran Bolt & Nut Mfg. Co., St. Louis, Mo.
Mount Carmel Bolt Co., Mount Carmel, Conn.

National Supply Co., 7 W Lombard, Baltimore,
Md.

Neely Nut & Bolt Co., S 22d & P. & L. R. R.,
Pittsburg, Pa.

New Castle Forge & Bolt Co. (Wrought), New
Castle, Pa.

New England Bolt & Steel Co., 3 Charlton, Ev-
erett, Mass.

Nictown Plate Washer Co. (Round or Square),
Nictown, Phila., Pa.

Old Dominion Iron & Nail Works Co., Rich-
mond, Va.

Oliver Iron & Steel Co. (Wrought), Pitts-
burg, Pa.

Parkesburg Iron Co. (Wrought Iron Stamped
Washers 1/4 to 2 1/2 inches), Parkersburg,

Pawtucket Mfg. Co., Pawtucket, R. I.
Payne's Bolt Works (Wrought), San Francisco,
Cal.

PHOENIX SPECIALTY MFG. CO.
(Light Steel), 48 Duane, New York. (See
adv. index, end of book)

PHILADELPHIA MACHINE SCREW
Works, Race & Sheridan, Phila., Pa. (See
adv. index, end of book)

Pittsburg Mfg. Co. (Iron), 28th & Railroad,
Pittsburg, Pa.

PITTSBURGH RIVET CO., 38th &
Junction R. R., Pittsburg, Pa. (See ad
index, end of book)

Pittsburg Screw & Bolt Co., Liberty av & 25th,
Pittsburg, Pa.

Pittsburg Shovel Co. (Steel), Frick bldg,
Pittsburg, Pa. Works, Leechburg, Pa.

Plymouth Mills (Small), Plymouth, Mass.
Quadruga Mfg. Co., 18 S Canal, Chicago Ill.
Reed & Prince Mfg. Co., Worcester, Mass.
Republic Iron & Steel Co., Frick bldg, Annex,
Pittsburg, Pa.

Rhode Island Tool Co., Providence, R. I.
Richards, T. C. Hdw. Co., Winsted, Conn.

Russell, Burdsall & Ward Bolt & Nut Co., Port-
chester, N. Y.

Scranton Bolt & Nut Co., Scranton, Pa.
Smith, Thos. & Co., Worcester, Mass.

Sessions, J. H. & Son (Steel), Bristol, Conn.
Sparks, Withington Co. (Steel), Jackson,
Mich.

STANLEY WORKS (Wrought Steel),
New Britain, Conn. (See adv. index &
branch offices, end of book)

Stover Mfg. Co., Freeport, Ill.
Taunton Rivet Co. (Steel), Taunton, Mass.

Union Iron Works, Houston, Tex.
Upsou Nut Co., Unionville, Conn., & Cleveland,
Ohio

VOELKNER & HARRY MANUFAC-
turing Co. (Steel Only), 125 Woodbridge
W, Detroit, Mich. (See adv. index, end
of book)

W. & S. Mfg. Co., Worcester, Mass.
Wilcox, Crittenden & Co., Middletown, Conn.

Wilmington Malleable Iron Co. (Malleable Iron),
Wilmington, Del.

Wrought Washer Mfg. Co. (Wrought & Steel
Plate of all kinds), Milwaukee, Wis.

Washers (Lead)

EDWARDS MFG. CO., 545-565 Eg-
gleston av. Cincinnati, O. (See adv. index,
end of book)

Littleford Bros., 453 E. Pearl, Cincinnati, O.
PHOENIX SPECIALTY MFG. CO., 48
Duane, New York. (See adv. index, end
of book)

Selby Smelting & Lead Co., San Francisco, Cal.
Tatham & Bros., 261 Water, New York

U. S. Indestructible Gasket Co. (And Alloys),
50 Church, New York

VOELKNER & HARRY MANUFAC-
turing Co., 125 Woodbridge W, Detroit,
Mich. (See adv. index, end of book)

Washers (Leather)

Auburn Auto Pump Co., Auburn, N. Y.
Barwood, L. J. Co., 387 Albany, Boston, Mass.

Bay State Leather Axle Washer Co., 80 High,
Boston, Mass.

Bell, Andrew ("Boss"), 371 Market, Newark,
N. J.

Chicago Rawhide Mfg. Co. (Rawhide), 75 E.
Ohio, Chicago, Ill.

Bell, Andrew ("Boss"), 371 Market, Newark,
N. J.

Chicago Rawhide Mfg. Co. (Rawhide), 75 E
Ohio, Chicago, Ill.

Climax Specialty Co., Elmira, N. Y.
Darling Pump & Mfg. Co., Williamsport, Pa.

Detroit Leather Specialty Co., Detroit, Mich.
Glauber, M. & Co., 317 E 58th, New York

Glauber, Samuel S., 1395 3d av, New York
Graton & Knight Mfg. Co., Worcester, Mass.

Goodsell Packing Co. ("New Century"), 33
S Canal, Chicago, Ill.

Hoffeld, R. & Co. (For Leather), 61 Carroll,
Buffalo, N. Y.

Houghton, E. F. & Co. ("Vim"), 240 W
Somerset, Phila., Pa.

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FLAT RIVETED KEYS AND GROMMETS.

Jenkins Bros., 71 John, New York
 Judd & Leland Mfg. Co., Clifton Springs, N. Y.
 Kendrick Valve & Washer Co., Syracuse, N. Y.
 Marstou, I. G. & Co., 226 Ruggles, Boston, Mass.
 Mitchell, E. J. & Co., 327 Van Buren, Brooklyn, N. Y.
 National Leather Mfg. Co., Niles, Mich.
 New Process Raw Hide Co., Syracuse, N. Y.
 New York Washer Works, 78 Barrow, New York
 Nott, W. S. Co., Minneapolis, Minn.
 Ogden, C. S. (Plumbers & Pump), 676 E 159th, New York
 Page Belting Co., Concord, N. H.
 Providence Belting Co., ("Champion" Sole Leather), 25 Charles, Providence, R. I.
 Sherman, H. B., Mfg. Co., Battle Creek, Mich.
 Sovereign, C. E. Co., (All kinds, up to 10 in. Diameter), Rockford, Ill.
 Standard Leather Washer Mfg. Co. (Axle), Newark, N. J.
VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)

Washers (Lock)

American Steel Spring Co. ("Amco," "National," "Positive," "Mason," "Verona"), 2 Rector, New York
 Boston Bolt Co., 40 Farnsworth, Boston, Mass.
 Hobbs Mfg. Co., Worcester, Mass.
 National Lock Washer Co., 65 Johnson, Newark, N. J.
 Positive Lock Washer Co., Ave A & Miller st, Newark, N. J.
 United States Whip Co., Westfield, Mass.
 Verona Tool Works, Murland bldg, Pittsburgh, Pa.
 Voelkner & Harry Mfg. Co., 123 W. Woodbridge, Detroit, Mich.
 Whittleset, H. E. & Sons, Corry, Pa.

Washers (Milk Can)

Stoddard Mfg. Co., Rutland, Vt.

Washers (Name Plate)

Wolverine Brass Works, Grand Rapids, Mich.

Washers (Nickel Plated)

BETTCHE MFG. CO., Clark av. at C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
 Springfield Machine Screw Co., Springfield, Mass.
 U. S. Indestructible Gasket Co., 50 Church, New York

*Washers (Paper)

PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)

Washers (Phosphor Bronze)

Phosphor Bronze Smelting Co., 2200 Wash'n av., Phila., Pa.

Washers (Plumbers')

AMERICAN VULCANIZED FIBRE Co. (Vulcanized Fibre), Wilmington, Del. (See adv. index, end of book)
 Bell, Andrew ("Bell"), Newark, N. J.
BERNZ, OTTO, S., 13th & S. Orange av., Newark, N. J. (See adv. index, end of book)
DELAWARE HARD FIBRE CO., Wilmington, Del. Works, Marshalltown, Del. (See adv. index, end of book)
DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)
 Gaynor & Mitchell Mfg. Co., Bridgeport, Conn.
 Grabler Mfg. Co. (Basin Cock, etc.), Cleveland, O.
 Plume & Atwood Mfg. Co. (Brass, etc.), Waterbury, Conn.
PENNSYLVANIA RUBBER CO. (Rubber Bibb, Waste, etc.), Jeannette, Pa. (See adv. index & branch offices, end of book)
 Rhode Island Washer Co., Valley Falls, R. I.
 U. S. Indestructible Gasket Co., 50 Church, New York
 Williams, D. B., 2047 Market, Phila., Pa.
 Wolverine Brass Works (Nickel Plated), Grand Rapids, Mich.

Washers (Rubber)

BOSTON BELTING CO., 260 Devonshire, Boston, Mass.; 100 Reade, New York. (See adv. index, & branch offices, end of book)
 Boston Woven Hose & Rubber Co., Executive Office & Factory, Cambridgeport, Mass.
 Canfield, H. O. Co., Bridgeport, Conn.
 Consolidated Rubber Co., Trenton, N. J.
 Continental Rubber Works, Erie, Pa.
 Crescent Belting & Packing Co., Trenton, N. J.
 Elkhart Rubber Works, Elkhart, Ind.
 Empire Rubber Mfg. Co., Trenton, N. J., & 60 Reade, New York
 Goodrich, B. F. Co., Akron, O.
 Goodyear Rubber Co., 787 B'way, New York, & 107 Lake, Chicago, Ill.
 Gutta Percha Rubber & Mfg. Co., 126 Duane, New York
 Hamilton Rubber Mfg. Co., Trenton, N. J.
 Hartford Rubber Works Co., Hartford, Conn., & 83 Michigan av, Chicago, Ill.
 Homie Rubber Co., Trenton, N. J.
 International Rubber Co., Milltown, N. J.
 Manhattan Rubber Mfg. Co., 126 Duane, New York, & 96 Lake, Chicago, Ill.
 Marston, I. G. & Co. (Machine Cut), Boston, Mass.
 Mechanical Rubber Co., 73 Reade, New York
 Morgan & Wright (Inc.), Detroit, Mich.
 N. J. Car Spring & Rubber Co., Jersey City, N. J.
 New York Belting & Packing Co. (Ltd.), 91 Chambers, New York
PENNSYLVANIA RUBBER CO., Jeannette, Pa. (See adv. index & branch offices, end of book)
PHOENIX SPECIALTY MFG. CO., 48 Duane, New York. (See adv. index, end of book)
 Revere Rubber Co., 77 Bedford, Boston, Mass.
 Stokes, Jos. Rubber Co., Trenton, N. J.
 Thermoid Rubber Co., Trenton, N. J.
 Trenton Rubber Mfg. Co., Trenton, N. J.
 United & Globe Rubber Mfg. Co., Trenton, N. J.
 Voorhees Rubber Mfg. Co., 18 Bostwick av, Jersey City, N. J., & 48 Dey, New York
 Whitehead Bros. Rubber Co., Trenton, N. J.

Washers (Special Sizes, Any Material)

BETTCHE MFG. CO., Clark av. at C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
PHILADELPHIA MACHINE SCREW Works, Race & Sheridan, Phila., Pa. (See adv. index, end of book)
 Quadriga Mfg. Co., 18 South Canal, Chicago, Ill.

*Washers (Square)

BETTCHE MFG. CO., Clark av. at C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
PITTSBURGH RIVET CO., 38th & Junction R. R., Pittsburgh, Pa. (See adv. index, end of book)

Washers (Street & Hydrant)

Connolly, P., 1154 Atlantic av, Brooklyn, N. Y.
CORNELL & UNDERHILL, 47 Beach, New York. (See adv. index, end of book)
 Dayton Supply Co., Dayton, Ohio.
 Kupferle, John C. Foundry Co., St. Louis, Mo.
McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)
 Murdock Mfg. & Supply Co., 428 Plum, Cincinnati, O.
 Myers, F. E. & Bro., Ashland, O.
 Pleuger & Henger Mfg. Co., 11th & Hebert, St. Louis, Mo.
 Rumsey & Co. (Ltd.), Seneca Falls, N. Y.

Washers (Tin)

BETTCHE MFG. CO., Clark av. at C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
 Humphreys, H. W. (Carpet, etc.), Unionville, Conn.
 National Sheet Metal Co. (Also Brass & Nickel Tin & Zinc), Peru, Ill.
 U. S. Indestructible Gasket Co., 50 Church, New York
VOELKNER & HARRY MANUFACTURING CO., 125 Woodbridge W, Detroit, Mich. (See adv. index, end of book)

Washers (Tumbler)

Bishop & Babcock Co. ("Canton" & "Lightning"), 49th & Hamilton, Cleveland, O.

Washers (Vehicle)

Ardrey Vehicle Washer Co., Rochester, N. Y.
BETTCHE MFG. CO., Clark av. at C C C & St. L Ry, S W, Cleveland, O. (See adv. index, end of book)
 Columbus Bolt Works, Columbus, O.
 Ideal Carriage Washer Co. ("Ideal" Overhead Revolving Hose Arms & Nozzle), Rochester, N. Y.
 Invincible Fire Armor Co. (Combination Mop & Wringer), Hartley, Ia.
 Long & Mann Co. ("L. & M." Nozzle & Mop), Rochester, N. Y.
 Nicholsburg, H. Mfg. Co. (Automobile), 68 Dey New York
 Perfect Mfg. Co. (Automobile, "Perfect"), Saratoga Springs, N. Y.
 Ryan & Long ("Perfection," Overhead), Appleton, Wis.
 Smith, I. J. Mfg. Co. ("Irving," Overhead), 4283 Park av, New York
 Star Brass Works ("Star"), 14 S Jefferson, Chicago, Ill.
 Warren, Marion Co. ("Warren's Allright" Nozzles), Rochester, N. Y.
 Vehicle Specialty Co. ("Excelsior," Revolving Overhead, "No. 2 Superior," Illuminating Overhead), Hartford, Conn.

Washers (Wire)

Raymond Mfg. Co., Corry, Pa.

Washers (Wrought Iron & Steel)

(See Washers, Iron & Steel)

Washers & Burrs (Brass & Copper)

(See Washers, Brass & Copper)

Washing Machines

Acme Washing Machine Co. ("Acme"), Columbus, O.
 Adams Laundry Machinery Co., 1935 6th av, Troy, N. Y.
 American Laundry & Machinery Co. ("Norwood"), Cincinnati, O.; 132 W 27th, New York
 American Wooden Ware Mfg. Co. ("Everybody's" Rotary, "Toledo" Rotary, "American" Rotary, "Western," "Run-Easy," "Monarch" Rotary & Electric Motor), Toledo, O.
 Baughman, N. C. ("New Miller"), York, Pa.
 Blackstone Mfg. Co. ("American," "Union," "Blackstone," "Challenge," "Chautauqua," "Sun," "Western," "Pan American," "Western-Defender"), Jamestown, N. Y.
 Bluffton Mfg. Co. ("American," "Rainbow," "Western," "Western American"), Bluffton, Md.
 Boss Washing Machine Co. ("Banner," "Banner Rotary," "Boss Rotary," "Champion," "Cincinnati Western," "Dietz," "Improved Globe," "New Standard," "Uneda American," "X-L"), Cincinnati, Ohio
 Brammer, H. F. Mfg. Co. ("B. B." "Brammer" "Columbia," "Columbia Toy," "Great Western," "O. J. C., "Original Brammer," "Peacemaker," "Snow E. White," "Schroeder"), Davenport, Ia.
 Brown, M. & Co. ("United States"), Wapakoneta, O.
 Buckeye Churn Co. ("Buckeye," "Hero," "Queen"), Sidney, O.
 Buckeye Motor Mfg. Co. (Motor), Dayton, O.
 Clark, Quin & Morse ("Peoria"), Peoria, Ill.
 Climax Washer Co. ("Climax," "New Century"), Oakville, Ind.
 Drumm, Manuel ("Champion," "Drumm's Best"), Tipton, Mo.
 Empire Washer Co., Jamestown, N. Y.
 Froelich Mfg. Co., St. Paul, Minn.
 Gee-Whizz Mfg. Co. ("Gee Whizz"), Des Moines, Ia.
 Glascock Bros. Mfg. Co. ("Handy," "New Era"), Muncie, Ind.
 Globe Mfg. Co. ("Quicker Yet"), Perry, Ia.
 Hagen, A. T. Co., Rochester, N. Y., & 26 S Clinton, Chicago, Ill.
 Horton Mfg. Co. ("American," "Globe," "Horton," "Wayne," "Western"), Fort Wayne, Ind.

Howe, A. D. Machine Co. (Water Power), Wheeling, W. Va.
 Huenfeld, E. H. Co. (Inc.) ("Royal"), Cincinnati, O.
 Hurley Machine Co. ("Thor Electric"), 153 S Jefferson, Chicago, Ill.
 Imperial Motor Works ("Imperial" Gearless), Grove City, Pa.
 International Mfg. Co. ("Wizard"), Omaha, Neb.
 Mears Rubber Co. ("Perfect"), 338 B'way, Brooklyn, N. Y.
 Michigan Washing Machine Co. ("Guarantee," "Peerless"), Muskegon, Mich.
 Miller, Wm. S. ("Home Gem"), Meyersdale, Pa.
 Nineteen Hundred Washer Co. ("Nineteen Hundred"), Binghamton, N. Y.
 Oaks Mfg. Co. ("Pedigo Perfection," "Peerless"), Bloomington, Ind.
 Paragon Mfg. Co., 1373 Carroll av., Chicago, Ill.
 Parsons Hawkeye Mfg. Co. ("Pastime"), Newton, Ia.
 Queen Washer Co. ("Queen"), Reading, Pa.
 Ross, C. E. ("World," "Star"), Lincoln, Ill.
 Schriver, O. P. & Co. ("I. X. L."), Cincinnati, Ohio.
 Standard Churn Co. ("Standard"), Wapakoneta, Ohio.
 Standard Mfg. Co. ("Leader"), Shelby, Ohio.
 Steel Roll Machine Co. (Hand or Belt Power), 254 E Madison, Chicago, Ill.
 Trappe, Chas. H. ("Sucker State"), Mascoutah, Ill.
 Twentieth Century Mfg. Co. ("Twentieth Century"), Mansfield, O.
 U. S. Washing Machine Co. ("United States"), Racine, Wis.
 Voss Bros. Mfg. Co. ("Eagle High Speed," "High Speed," "Rotary," "Ocean Wave"), Davenport, Ia.
 Walker Mfg. Co. ("Five Minutes"), Council Bluffs, Ia.
 Wayne Mfg. Co. ("Excelsior" Cylinder, "Wayne"), St. Louis, Mo.
 Waverly Woodenware Works ("Waverly"), St. Joseph, Mo.
 White Lily Washer Co. ("White Lily," "White Rose," "White Daisy"), Davenport, Ia.
 Wiard Mfg. Co. ("Wiard's Standard"), East Avon, N. Y.

Waste (Cotton & Wool Mfrs.)

Adams Bros., 571 Atlantic av., Boston, Mass.
 Allison, G. F. & Co., Utica, N. Y.
 Andres, Fr. Jac. (Inc.), 127 Federal, Boston, Mass.
 Barton & Cookson, Fitchburg, Mass.
 Bishop, Robt., Mfg. Co., 157 W. 6th, Boston, Mass.
 Blaisdell, S., Jr., Co., Chicopee, Mass.
 Blakeley, Jno. & Son (Cotton & Wool), 1085 Gtn av., Philadelphia, Pa.
 Bowman, D. F., New Albany, Ind.
 Briggs, H. A. & Co. (Cotton), Pawtucket, R. I.
BRODERICK & BASCOM ROPE CO.
 (All Grades), 809 N Main, St. Louis, Mo.
 (See adv. index, end of book)
 Brooks, Geo B. (Wiping), Providence, R. I.
 Capron, Chas. C. (Wool), Uxbridge, Mass.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
 Cheney, P. C., Co. (Cotton), Manchester, N. H.
 Coburn, Walter & Co., Lowell, Mass.
 Crefeld Waste & Batting Co., Saylesville, R. I.
 Crerar, Adams & Co. (Jobbers), 11 5th av., Chicago, Ill.
 Detroit Waste Works, Detroit, Mich.
 Devlin, Chas. (Cotton & Wool), Hifton & Kensington, Phila., Pa.
 Devon Mills (George S. Browne, Prop'r), (Machined), Providence, R. I.
 Dixon, Wm. F. & Son (Cotton & Wool), Manayunk, Philadelphia, Pa.
 Egan, K., & Co. Baltimore Waste Co., Baltimore, Md.
 Estes Mills (Inc.), (Machy. Wiping), Fall River, Mass.
 Frankford Waste Co., Fkd., Phila., Pa.
 Franklin Mfg. Co. (Wool Waste), Franklin, Pa.
 Fredlander, Julius & Co. (Cotton Waste & Linters), Columbus, Ga.
 Gallagher, D. J., Mfg. Co., 283 S. Canal, Chicago, Ill.
 Graves, Frank B. (Wool), Albany, N. Y.
 Hagy, Clayton L. & Son, 16th & Carpenter, Phila., Pa.
 Hagy, J. Milton, Waste Works (Ltd.), Bourse bldg., Phila., Pa.
 Hill & Cutler, 567 Atlantic av., Boston, Mass.

Hirsch, I. C. Iron, Steel & Rail Co. ("I. C. H.") Wiping Waste), Cincinnati, O.
 Hoffman-Corr Mfg. Co., 55 White, New York
 Houghton, E. F. & Co. (Cotton), 240 W. Somerset, Phila., Pa.
 Lehmer, Jos. R. (Dealer), Omaha, Neb.
 Lewis, Jas. B. (Cotton Wiping Waste), Walpole, Mass.
 Lewis Bros., Fall River, Mass.
 Lillie, Dexter, P. & Co., Springfield, Mass.
 McGrath, Jno. J. (Also Packing, Wiping, etc.), 1338 N Front, Phila., Pa.
 Massasoit Mfg. Co., Fall River, Mass.
 Mayo, A. N. & Co., Springfield, Mass.
 Milton, Hagy J. Waste Works (Ltd.), Bourse bldg., Phila., Pa.
 Mohawk Mfg. Co. (Cotton & Wool), Oswego, N. Y.
 Moore, Geo. O. (Wool), N Chelmsford, Mass.
 Olmstead & Tuttle Co. (For R. R. & Machinery, etc.), Chicopee, Mass.
 O'Neill Bros. (For R. R. Purposes, etc.), Oxford & Howard, Phila., Pa.
 Peck, Asa & Co. (Cotton & Wool), Providence, R. I.
 Railway Supply & Mfg. Co. (Inc.), 1242 Harrison av., Cincinnati, O.
 Riverside Mills, Augusta, Ga.
 Rodney, Wallace, Fitchburg, Mass.
 Springfield Waste Co. (Cotton Packing & Wiping Waste), Springfield, Mass.
STRONG COTTON WASTE & MFG.
 Co. ("Strong's" White & Colored), 48 Franklin, New York. (See adv. index, end of book)
 Sykes, David (Also Wool & Wool Waste for Railroads), Dauphin & Amber, Phila., Pa.
 Troy Waste Mfg. Co., Troy, N. Y.
 Union Wadding Co. (Wiping), Pawtucket, R. I.
 United Waste Mfg. Co., Troy, N. Y.
 Wallace, Rodney, Fitchburg, Mass.
WALSH'S SONS & CO., Newark, N. J.
 (See adv. index, end of book)

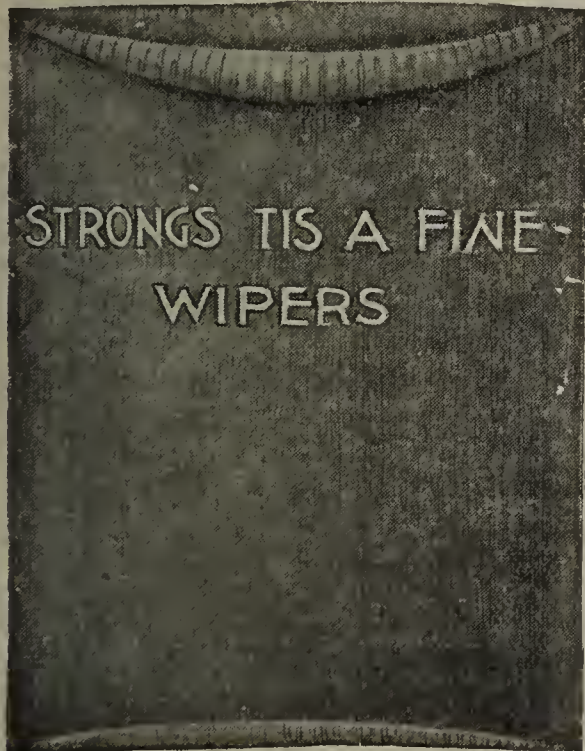
Waste Heat Utilizers

(See Fuel Economizers)

Waste & Overflows (Bath)

A. D. Mfg. Co. ("Romeyn" Connected), Detroit, Mich.

When you Think of Cotton Waste, Think of Strong of New York



Telephones, 5530-5531 Franklin

WHITE COP WASTE—MACHINED AND UNMACHINED

EXTRA WHITE — No. 1 WHITE — B WHITE

Try a bale of our B White Machined Waste at 8¾ cents per lb.
 We believe you will find it better value for your money than any other waste on the market.

COLORED WASTE — FANCY COLORED — No. 1 COLORED AND PARTLY COLORED

WOOL WASTE — All Grades

STRONG'S COTTON WIPER TOWELS

Strong's Tisafine Wiper Towels, 12 x 18 inches . 4 cts. each
 " Lightning " " 12 x 13 " . 3¼ cts. each
 " Magic " " 12 x 12 " . 3 cts. each
 " Regular Wipers—Hosiery Remnants, as they run, 1 square foot up . 15 cts. per lb.
 " Silk Wiper Towels, 12 x 14 inches . \$7.00 per gross

Strong Cotton Waste & Mfg. Co.

48 FRANKLIN STREET, N. Y. C.

Climax Specialty Co., Elmira, N. Y.
 Edwardsville Brass Co., Edwardsville, Ill.
 Milwaukee Brass Mfg. Co., 241 Lapham, Milwaukee, Wis.
 Morrison-Kretschmer Co. ("Morrison"), Dubuque, Iowa
 National Mfg. & Supply Co., Minneapolis, Minn.
 Ohio Brass & Iron Mfg. Co., Cleveland, O.
 Wolverine Brass Works, Grand Rapids, Mich.

*Watch Case Materials

UNITED WIRE & SUPPLY CO. (Gold & Silver, Sheet, Flat Plate, Wire, Plated Wire, Solder, etc.), 109 Summer, Providence, R. I. (See adv. index, end of book)

Watch Crystals

Bache, Semon & Co., West & Hubert, New York

Watchman's Time Detectors

(See Clocks, Watchman's; also Time Recorders)

Water Bottles (Rubber)

Faultless Ruhher Co., Ashland, O.
 Goodrich, B. F. Co., Akron, O.
 Imperial Rubber Co., Canton, O.

Water Closet Mfrs.

Adee, Fred. & Co., 44 Cliff, New York
 Aird-Don Co., 411 River, Troy, N. Y.
 Bailey-Farrell Mfg. Co., Pittsburgh, Pa.
 Barrett, Jas. Mfg. Co., 211 Franklin, Boston, Mass.

Blessing, C. A., 515 Montgomery av., Phila., Pa.
 Central Brass Works ("Standard"), Kansas City, Mo.
 Clow, Jas. B. & Sons, 344 Franklin, Chicago, Ill.
 Columbus Brass Co., Columbus, O.
 Colwell Lead Co., 109 Lafayette, N. Y.
 Connolly, P. (Non-Freezing Outdoor), 1154 Atlantic av., Brooklyn, N. Y.

Cooper, W. S. Brass Works, Phila., Pa.
 Dalton-Ingersoll Mfg. Co., 169 High, Boston, Mass.

Day Metallic Co. (Steel Enameled), Detroit, Mich.
 Dececo Co., 155 High, Boston, Mass.
 Dimock & Fink Co., 220 E 125th, New York
 Douglas, John Co., 906 Poplar, Cincinnati, O.
 Du Bois, F. N. & Co., 245 9th av., N. Y.
 Federal-Huber Co., Halsted & Fulton, Chicago, Ill., & 244 5th av., New York

Fisher, E. W. Co., Cleveland, O.
 Fleck Bros., 44 N 5th, Phila., Pa.
 Fort Pitt Supply Co., 332 2d av., Pittsburgh, Pa.
 Froelish Bros., 142 N 7th, Phila., Pa.
 Gibson, Thos. Co., 633 Walnut, Cincinnati, O.
 Great Western Pottery Co. ("Venice" Extension Back Outlet Vitreous China, Washdown), Kokomo, Ind.

Haas, Philip ("Haas" Frost Proof), Dayton, O.
 Haines Jones & Cadbury Co. ("Frost", "Pit-No", Frost Proof), 1136 Ridge av., Phila., Pa.

Hamilton, Jno. H., 71 Charlotte av., Detroit, Mich.

Hercules Iron & Supply Co., 427 Commercial, Boston, Mass., & Anniston, Ala.

Hess, Chas. Co. ("Hess" for Export), 129 Front, New York

Holbrook Merrill & Stetson (Combinations), 221 Market, San Francisco, Cal.

Hussey, Wm. H. & Son, 150 W 35th, New York

Hyde, Thomas, Albany, N. Y.
 Illinois Malleable Iron Co., 515 Diversey Boul., Chicago, Ill.

Kelly, Thos. & Bros. (Self-Acting & "Kelly" Seat Action), Congress & 46th av., Chicago, Ill.

Kenney Mfg. Co. ("Flushometer"), 36 E 22d, New York

Knott-Van Arnham Mfg. Co., Fort Wayne, Ind.

Kohler, J. M. Sons Co. (Enameled Iron), Sheboygan, Wis.

Lipp, Louis Co., Cincinnati, O.
 McCambridge & Co., 315 N. 20th, Phila., Pa.

McDonald, A. Y. Co., 111 Lake, Chicago, Ill.
 Maddock, Thos. Sons Co., Trenton, N. J.

Mayor, Lane & Co., 128 White, New York
 Merkel Bros., Canal & Jackson, Cincinnati, O.

Meyer-Sniffen Co. (Ltd.), 11 W. 36th, New York
 Morrison-Kretschmer Co., Dubuque, Ia.

Mott, J. L. Iron Works, 118 5th av., New York
 Mowry & Phillips, 197 High, Boston, Mass.

Nelson, N. O. Mfg. Co., St. Louis, Mo.
 Newell Brass Mfg. Co., 445 N. Broad, Phila., Pa.

Nunn Brass Works, 17 Wentworth, Rochester, N. Y.

Owen & Salter, N 12th & Bnttonwood, Phila., Pa.

Park & McKay Co., 55 Bagley av., Detroit, Mich.

Peck Bros. & Co. (Combination), 127 Chestnut, New Haven, Conn.

Pfau Mfg. Co., 536 Reading rd, Ciucunati, O.

Pierce, Butler & Pierce Mfg. Co. (Combinations, "Silent," "Comfort," "Monarch," "Victor," "Perfect," "Automatic"), Syracuse, N. Y.

Pittsburg Brass Mfg. Co., Penn. av. & 32d, Pittsburgh, Pa.

Pittsburg Supply Co., 226 1st av., Pittsburgh, Pa.

Robertson, Jas. Mfg. Co., 14 S Hanover, Baltimore, Md.

Rmsey, L. M. Mfg. Co., St. Louis, Mo.

Rundle-Spence Mfg. Co., Milwaukee, Wis.

Sanitary Mfg. Co., Hamilton, O.

Sanitas Mfg. Co., 48 Union, Boston, Mass.

SIMMONS, JNO. CO. ("Rothchild" Flushometer), 106 Centre, New York. (See adv. index, end of book)

Speakman Supply & Pipe Co., Wilmington, Del.

Standard Sanitary Mfg. Co., Bessemer bldg., Pittsburgh, Pa.

Sumner & Goodwin Co., Boston, Mass.

Vannevar, Edmund B. & Co. (Yacht), 58 Fulton, Boston, Mass.

Walker Mfg. & Supply Co., Detroit, Mich.

Walsh, Owen & Stambach Co. ("Natura"), 50 N. 7th, Phila., Pa.

Wolf, L. Mfg. Co., 117 W. Lake, Chicago, Ill.

Zero Valve & Brass Mfg. Co., 417 Chicago, Buffalo, N. Y.

Young, Joseph H., 80 High, Boston, Mass.

Anson & Pratt, Hastings, Neb.

Climax Specialty Co., Elmira, N. Y.

Lord, L. L. Co. ("Lord"), Meadville, Pa.

Mott, J. L. Iron Works, 118 5th av., New York

Nelson, N. O. Mfg. Co. (Pneumatic Syphon Hopper Latunes), St. Louis, Mo.

Standard Sanitary Mfg. Co. (Automatic Syphon Jet), Bessemer bldg., Pittsburgh, Pa.

Central Brass Works ("Standard"), Kansas City, Mo.

Kelly, Thos. & Bros. ("Kelly" Seat Action after Flush), Congress & 46th av., Chicago, Ill.

Pittsburg Brass Mfg. Co. ("Payne"), Penn. av. & 32d, Pittsburgh, Pa.

Zero Valve & Brass Mfg. Co., 417 Chicago, Buffalo, N. Y.

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Water Columns (Safety)

American Steam Gauge & Valve Mfg. Co., 208 Camden, Boston, Mass.
 Berry Engineering Co. ("Berry"), Chester, Pa.
 Binghamton Machine Tool Works ("Turuer"), Binghamton, N. Y.
 Collins Mfg. Co., 612 Chestnut, Phila., Pa.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill.
 (See adv. index & branch offices, end of book)
CROSBY STEAM GAGE & VALVE CO., 97 Oliver, Boston, Mass., & 16 Dey, New York.
 (See adv. index & branch offices, end of book)
INDUSTRIAL INSTRUMENT CO., Foxboro, Mass. (See adv. index & branch offices, end of book)
 Jarvis Engine & Machine Works ("Jarvis," "Our Pet"), Lansing, Mich.
 Kltts Mfg. Co., Oswego, N. Y.
 Lawler Regulator Co., 473 W B'way, New York
LUNKENHEIMER CO. ("Vigilant" Combination), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
 Murray Automatic Boiler Feed Co., 892 Scotten av., Detroit, Mich.
PITTSBURGH GAGE & SUPPLY CO. ("Pittsburgh"), 30th & Liberty av., Pittsburgh, Pa. (See adv. index, end of book)
 Reliance Gauge Column Co. ("Reliance"), Cleveland, O.
 Sims Co., Erie, Pa.
 Williams, D. T. Valve Co., Cincinnati, O.
 Williams Gauge Co. ("Williams" High & Low Alarm), Pittsburg, Pa.
 Wright Mfg. Co. ("Wright"), Detroit, Mich.

***Water Fronts for Stoves**

COHOES IRON FOUNDRY & MACHINE CO., Cohoes, N. Y. (See adv. index, end of book)

Water Gates

(See Valves, Gate, for Water Main)

Water Lifts (Automatic)

(See Lifts, Water)

Water Main Cleaning

National Water Main Cleaning Co., 27 William, New York

Water Ozonating & Purifying Plants

Ozone Company of America, 141 Clinton, Chicago, Ill.

***Waterproof Board ("Beaver")**

BEAVER MFG. CO., THE, 228 Perry st., Buffalo, N. Y. (See adv. index, end of book)

BEAVER BOARD
 The Modern Wall & Ceiling Material
 Takes Place of Both Lath and Plaster

Waterproof Wrapping (Cloth-Lined)

Angier Mills ("Keepdry"), Quincy, Mass.

Waterproofing Cloth

Lehon Co., W 43d & Lincoln, Chicago, Ill.

Waterproofing Compounds

(See Waterproofing Materials)

Waterproofing Materials

Abbey, Dodge Brooks Concrete Co. ("Novold"), Newark, N. J.
 Alaska Waterproofing Co., Ashland, Ky.
AMERICAN CEMENT CO. (Brick, Cement & Concrete), 80 William, New York. (See adv. index end of book)
 American Cement Waterproofing Co. ("Aquabar"), Heed Bldg., Phila., Pa.
 American Diamond Blast Co. ("Anto-Hydro" Cement), 50 Church, New York.
 Antihydrene Co. (Antihydrene), Washington bldg, New Haven, Conn.
 Aquabar Co. ("Aquabar"), 436 N-12th, Phila., Pa.
 C. I. Waterproofing Co. (C. I. Waterproofing Compound), Oakland, Cal.
CABOT, SAM'L. (Brick, Stone & Cement), 141 Milk, Boston, Mass. (See adv. index & branch offices, end of book)
 Century Cement Fluid Co. ("Century" Cement Fluid), Madisonville, O.
 Chicago Ironite Co. ("Ironite"), 92 La Salle, Chicago, Ill.
 Consolidated Water Proof Co., Erie, Pa.
 De Smet, Geo. W. ("Dehydratene" & "Symmentrex" Liquid Concrete), 138 Washington, Chicago, Ill.
 Diamond Waterproofing Co. ("Diamond" Liquid), Springfield, O.
 Elaterite Paint & Mfg. Co. ("Ideal" Cement), Des Moines, Iowa.
 Flexible Compound Co., 3607 Haverford av., Phila., Pa.
 Glidden Varnish Co. ("Glidden's Waterproof Concrete & Cement Floor Dressing), Rockefeller Bldg., Cleveland, O.
 Gould Gibraltar Paint Co. ("Gibraltar"), 32 Union Sq., New York.
GROSCHKE, BRUNO & CO. (Cement, Concrete, etc.), 13 Jones La., New York. (See adv. index, end of book)
 Grote, Geo. W. & Co., 432 E 102d, New York
 Horn, A. C. Co. (Symmentrex & Dehydrating), 8 Burling st., New York
 Hydrex Felt & Engineering Co. ("Hydrex" Compound & Felt), 120 Liberty, New York.
 Factory, East Walpole, Mass.
 Ironite Co. ("Ironite" for Concrete, Brick & Stone), 84 La Salle, Chicago, Ill.
 Kessler, Flauts Co. ("Kessler"), 43 W. 27th, New York
 Kneckerbocker Chemical Co. (Boonnan's Noflax Asphalt, "Aquasex"), 24 Stone, New York.
 Koch, Theo. F. & Co. ("Wunner's" Bitumen-Emulsion for Cement or Concrete), 79 Dearborn, Chicago, Ill.
 Maumee Chemical Co. ("Maumee" Compound), Toledo, O.
 Miller, Clifford L. & Co. ("Minuax"), 110 E. 23rd, New York.
 Morgan, H. B. Co. ("Morganite"), Grand Crossing, Chicago, Ill.
 National Waterproof Co. ("Te Pe Co"), American Trust Bldg., Chicago, Ill.
 Neuchatel Asphalt Co. (Ltd.), 265 Broadway, New York
 Pltts, Chas. L. Co., 58 E Park, Newark, N. J., & 210 16th, Jersey City, N. J.
 Preservative Products Co. ("Esco," "Imperio"), 1133 B'way, New York.
 Sandusky Portland Cement Co. ("Medusa"), Sandusky, O.
 Sicilian Asphalt Paving Co. ("Slastex", An Asphalted Textile), 41 Park Row, New York.
 Texas Company ("Texaco"), 17 Battery Pl., New York.
TRUSSED CONCRETE STEEL CO., Trussed Concrete Bldg., Detroit, Mich. (See adv. index & branch offices, end of book)
 Union Construction & Waterproofing Co., 1133 Broadway, New York

Union Fibre Co. ("Antiaqua," Cement for Waterproofing Walls or Insulation) Wl-nona, Minn.
 Universal Compound Co., 449 W. 28th, New York.
 Vlscol Co., Cambridge, Mass.
 Wadsworth, Howland & Co. ("Bay Side," Brick & Cement Coating), Boston, Mass.
 Waterproofing Co. (For Cellar, Subways, Reservoirs, Tunnels, etc.), 147 E 35th, New York

Water Softening & Purifying Apparatus

American Water Softener Co. ("Brunn-Low-ener"), Mutual Life Bldg., Phila., Pa.
 Booth, L. M. C. ("Booth" Water Softener), 136 Liberty, New York
 Dodge Mfg. Co. ("Eureka"), Mishawaka, Ind.
 Harrison Safety Boiler Works, 17th below Allegheny av, Phila., Pa.
HELWIG MFG. CO. ("Eureka"), St. Paul, Minn. (See adv. index, end of book)
 Jewell Engineering Co., 206 W. Lake, Chicago, Ill.
 Kennicott Water Softener Co., Railway Exchange, Chicago, Ill.
MACLEOD, WALTER & CO., 213 E Pearl, Cincinnati, O. (See adv. index, end of book)
NEW YORK CONTINENTAL JEWELL Filtration Co., 15 Broad, New York, & 167 Dearborn, Chicago, Ill. (See adv. index, end of book)
 Northern Water Softener Co. ("Bartlett," "Northern"), Madison, Wis.
 Patterson, D. W. ("Bachman"), 1502 Market, Phila., Pa.
 Pittsburg Filter Mfg. Co., Farmers' Bank Bldg., Pittsburg, Pa.
 Power Plant Specialty Co. ("Vater" Hot Process), Monadnock Bldg., Chicago, Ill.
 Purification & Engineering Co., 50 Church, New York.
 Reisert-Hans Co. (Ltd.), ("Reisert"), 50 Church, New York.
SCAIFE, WM. B. & SONS CO., ("Scaife" & "We-Fu-Go" Systems), 221 1st av. Pittsburg, Pa. (See adv. index, end of book)
 Turl's, Jno. Sons (Inc.), 26 Cortlandt, New York. Works, Newburgh, N. Y.
 United States Wind Engine & Pump Co., Batavia, Ill.
 Wiemann-Munball Co., Pittsburg, Pa.

Water Stations (Railroad)

(See Water Columns or Stations, Railroad)

Water Supply (Air Pressure)

(See Lifts, Air; also Pneumatic Water Supply Systems)

Water Towers (Fire Boat)

Woodhouse Mfg. Co. ("Woodhouse"), 50 W B'way, New York

Water Wheels

(See also Water Turbine Wheels)

Blymer Iron Works Co. (Overshot), Spring Grove & Terrace pl., Cincinnati, O.
 Doble, Abner, Co. ("Taugential"), San Francisco, Cal.
 Fitz Water Wheel Co., Hanover, Pa.
 Hug Water Wheel Co., Denver, Col.
 Knight & Co. (100 to 2,500 h. p.), Sutter Creek, Cal.
 Leffel, Jas. & Co., Springfield, O.
 Pelton Water Wheel Co. (Also Direct Connected), Monadnock bldg, San Francisco, Cal., & 90 West, New York
 Mine & Smelter Supply Co., Denver, Colo.
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Wattmeters

BRISTOL CO. ("Bristol" Recording),
Waterbury, Conn., & 114 Liberty, New York.
(See adv. index & branch offices, end of book)
Central Laboratory Supply Co. ("Vawter" Recording), La Fayette, Ind.
Duncan Electric Mfg. Co. ("Monetary"), La Fayette, Ind.
Du Vivier, Ernest H. (Dial & Recording), 30 Church, New York.
Electrical Accessories Co. (Importers), 1133 B'way, New York
Federal Electric Co. ("Willis"), 124 W Lake, Chicago, Ill.
Fort Wayne Electric Works (Induction), Fort Wayne, Ind.
GENERAL ELECTRIC CO. ("Thomson", "Wright"), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
Helios Mfg. Co. ("Bastian", Electrolytic Meter), Bridesburg, Phila., Pa.
International Elec. Meter Co., Chicago, Ill.
Johns, H. W.-Manville Co. ("Victor", Combined with Ammeter & Voltmeter), 100 William, New York
Keystone Electrical Instrument Co., 9th & Montgomery ave., Phila., Pa.
Roberts Instrument Co. (Miniature Lamp Testing), Detroit, Mich.
Roller-Smith Co. ("Hoyt's"), Bethlehem, Pa.
Sangamon Electric Co. ("Gutman" Recording), Springfield, Ill.
Wagner Electric Mfg. Co., Plymouth av & Wabash R. R., St. Louis, Mo.
WESTINGHOUSE ELECTRIC & MFG. Co. ("Westinghouse" Portable Lamp Testing Volt-Wattmeter, etc), Union Bank Bldg., Pittsburg Pa. (See adv. index, & branch offices, end of book)
Weston Electrical Instrument Co., Waverly Park, Newark, N. J.

***Wattmeters (Prepayment, Recording)**

GENERAL ELECTRIC CO., Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank Bldg., Pittsburg, Pa. (See adv. index and branch offices, end of book)

Wax (Bayberry)

Bromund, E. A., 97 Reade, New York
HILL & GRIFFITH CO., Cincinnati, O. (See adv. index, end of book)

Wax Heads & Fixtures

(See names in Window Display Fixtures with the words Wax-figures following their name)

Wax Mfrs. (Cabinet)

Bowdlear, W. H., & Co. (Waxes from all countries), 149 Pearl, Boston, Mass.

Brown, D. P., & Co., 262 N 4th, Phila., Pa.
Stevanson Bros. & Co., 132 S 2d, Phila., Pa.
Stevenson, Oliver K., 15 N Front, Phila., Pa.
Walton, F. S., & 136 S Front, Phila., Pa.

Wax (Paraffine)

American Petroleum Products Co., 196 Water, New York
Baker & Adamson Chemical Co., Easton, Pa.
Borne, Scrymser Co., 80 South, New York
Crow-Levick Co., Land Title bldg., Phila., Pa.
Emery Mfg. Co., Bradford, Pa.
Freedom Oil Works, Freedom, Pa.
Germania Refining Co., Oil City, Pa.
INDIAN REFINING CO. (Purest Refined), Cincinnati, O. (See adv. index, end of book)
Loos & Dilworth, 134 S Front, Phila., Pa.
Manufacturers' Paraffine Co., Chester, Pa.
Monitor Oil Co., 1131 W 11th N. W., Cleveland, Ohio
Pennsylvania Paraffine Works, Titusville, Pa.
Smith & Nichols, 48 South, New York
Sonneborn, L., Sons (Inc.), ("Amalia"), 262 Pearl, New York
Standard Oil Co. (Refined), 555 W. 25th, New York
Standard Oil Co. of Ohio, 107 E Pearl, Cincinnati, O.
Sun Oil Co., Woodville st. & Belt Ry., Toledo, Ohio
Tidewater Oil Co. (Refined), 11 B'way, New York
Union Petroleum Co. (White & Yellow), 135 S 2d, Phila., Pa.
Waverly Oil Works (Refined), 54th & A. V. Ry., Pittsburg, Pa.

Wax (Sealing)

Apel, Herman, Milwaukee, Wis.
Bowdlear, W. H. & Co., 220 Devonshire, Boston, Mass.
British-American Sealing Wax Co., Cincinnati, Ohio
Dennison Mfg. Co., 26 Franklin, Boston, Mass.
Dicks & Wiggin ("Zubian", "Pontius Pure" for Fruit Jars, etc.), Dayton, O.
Edwards Bros., Milton, Mass.
Harrison Mfg. Co., Rahway, N. J.
Hoyt Metal Co., St. Louis, Mo., & Perth Amboy, N. J.
Pontius, Geo. A., Columbus City, Ind.
Propfe, August, 1409 Vine, Phila., Pa.
Sanford Mfg. Co., Congress & Peoria, Chicago, Ill.
Scheel, Wm. H., 159 Maiden la., New York
Stafford Novelty Co., 603 Wash'n, New York
Zinsser, Wm. & Co., 197 William, New York

Wax Tailings & Scale Wax

Emery Mfg. Co., Bradford, Pa.
INDIAN REFINING CO., Cincinnati, O. (See adv. index, end of book)
Penn Refining Co., Oil City, Pa.
Standard Oil Co., 555 W. 25th, New York
Tidewater Oil Co., 11 B'way, New York

Wax Tapers

Cathedral Candle Co., Syracuse, N. Y.
Marty, F. & Co., Syracuse, N. Y.
Will & Baumer Co., Syracuse, N. Y.

Weaners (Calf)

Barbee Wire & Iron Works (Wire), 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Carroll Muzzle Co., Carroll, Ia.
Cooley Mfg. Co., 103 S Canal, Chicago, Ill.
Hamlin & Russell Mfg. Co., Worcester, Mass.
Pratt, Wm. E. Mfg. Co. ("Tylers"), 91 Lake, Chicago, Ill.
Quinn Wire & Iron Works, Scranton, Ia.

Weather Strip Rubber

Goodrich, B. F. Co., Akron O.

Weather Strips

Abel-Bauer Grille Mfg. Co. ("Fournier"), 423 Gratiot av., Detroit, Mich.
American Weather Strip Co., 70 Warren, New York
Anderson, Wm. G. (Combined Felt & Rubber Invisible), Sudbury Bldg., Boston, Mass.
Bosley, D. W. Co. ("Bosley's" Felt, Rubber, Metallic Rubber, Metallic Railway, etc.), 303 Fulton, Chicago, Ill.
Russell Mfg. Co., Middletown, Conn.
Brown, A. B. Co., 514 W 46th, New York
Chamberlin Metal Weather Strip Co. (Metallic), 4th & Fort, Detroit, Mich.

Champion Metal Weather Strip & Parting Bead Co. (Metallic), 179 Summer, Boston, Mass.
Church, E. I. & Co. (Axle, All Steel), West Hanover, Mass.
Dunfee, J. & Co., 59 N Claremont av, Chicago, Ill.
Economy Weather Strip Co. ("Economy," Spring Metal), Penobscot bldg., Detroit, Mich.
Ford, Chas. J., Holyoke, Mass.
Golden, Geo. W. ("Golden" Metallic), 15 Gilman, Detroit, Mich.
Harsha, L. R. Mfg. Co., 793 Carroll av, Chicago, Ill.
Heaton & Wood, 1706 Chestnut, Philadelphia, Pa.
Introstyle & Novelty Mfg. Co. (Metal O. K.), Marietta, O.
Metal Plated Car & Lumber Co. (For Cars Only), 30 Church, New York
Mineralized Rubber Co., 18 Cliff, New York
Motley, Peter (Rubber), 750 S Broad, Phila., Pa.
National Metal Weather Strip Co. ("National," All Metal), Pittsburg, Pa.
N. Y. Weather Strip & Screen Co., 103 Chambers, New York
Osgood, H. H. & Co., 4 Charlestown, Boston, Mass.
Paragon Metal Weather Strip Co. ("Paragon," All Metal), 112 W. 42d, New York
Perfection Metallic Weather Strip Co., 267 Lafayette Boul., Detroit, Mich.
Prince, W. O., 26 Edinboro, Boston, Mass.
Protective Ventilator Co., 129 Fulton, New York
Reeves Mfg. Co. (Automatic), New Haven, Conn.
Robbins Mfg. Co. (All Metal), 968 N Central pk av, Chicago, Ill.
Roebeck Weather Strip & Wire Screen Co., 419 Hamilton av., Brooklyn, N. Y.
Roehrig & Jacoby Wall Paper & Carpet Co., 1223 Olive, St. Louis, Mo.
Solomon, M., Fly Screen Co. (Solid Metal Interlocking), cor. Bayard & Nanticoke, Baltimore, Md.
Staufeld & Christie, 142 E 4th, Cincinnati, O.
TABOR SASH CO. ("Taber," Metallic), 69 Polk, Newark, N. J. (See adv. index & branch offices, end of book)
Teackle & Golden (The Golden Metal), 15 Gelman, Detroit, Mich.
Union Novelty Works (Felt Cushion Edge), Putnam, Conn.
Window Swinging Co. (Metal), Hale bldg, Phila., Pa.

Weather Vanes

Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, 82 Washington av., Detroit, Mich.
Broad Gauge Iron Stall Works, 53 Elm, Boston, Mass.
Canton Art Metal Co., Canton, O.
EDWARDS MFG. CO., 545-565 Eggleston av, Cincinnati, O. (See adv. index, end of book)
Eller Mfg. Co., Canton, O.
Fiske, J. W. Iron Works, 56 Park pl., New York
Foy, Edw. A. & Co., 409 E 8th, Cincinnati, O.
Geroch Bros. Mfg. Co., 1252 Manchester av, St. Louis, Mo.
Goodwin, Frederick O., 53d & Wyalusing, Philadelphia, Pa.
Henis, Wm. G., 1347 Ridge av, Phila., Pa.
Hum & Leatherman, Pittsburg, Pa.
Jackson & Cook, 318 Market, Phila., Pa.
JONES, THOMAS W. (Also Dial), 22 Burling sl., New York. (See adv. index, end of book)

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Mott, J. L. Iron Works, 118 5th av, New York
MULLINS, W. H. CO., 341 Franklin, Salem, O. (See adv. index, end of book)
National Cable & Mfg. Co. ("National"), Niles, Mich.
NATIONAL SHEET METAL ROOFING CO., 339 Grand, Jersey City, N. J. (See adv. index, end of book)
Sheet Metal & Supply Co., Lancaster, Pa.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
SNOW, W. A. IRON WORKS (Copper), 19 Portland, Boston, Mass.
TAYLOR & DEAN, Penn. av. & 25th, Pittsburg, Pa. (See adv. index, end of book)
VAN DORN IRON WORKS CO., 2685 N. 79th, Cleveland, O. (See adv. index, end of book)
Washbourne, Edw. G. & Co., 46 Cortlandt, New York
Westervelt, A. B. & W. T., 102 Chambers, New York

*Weather Vanes (Copper)

JONES, THOS. W. (Also Interior Indicating Vanes), 22 Burling, New York. (See adv. index, end of book)

Webbing (Cotton)

Buffalo Weaving & Belting Co. (Belting, Halters, Girth, Bridles, Back Bands, Trunk Straps, etc.), Buffalo, N. Y.
Consolidated Cotton Duck Co. (Back Band, etc.), Baltimore, Md.
Empire Mfg. Co., Lockport, N. Y.
Fletcher Mfg. Co., Providence, R. I.
Hope Webbing Co. (Narrow Woven Fabrics), Pawtucket, R. I.
Vogt Mfg. & Coach Lace Co., Rochester, N. Y.

*Wedge Lead

HARRISON SUPPLY CO. (For Stone Trade), 5 & 7 Dorchester av Extension, Boston, Mass. (See adv. index, end of book)

Wedges (Equalizing)

McCord & Co. ("National"), Old Colony Bldg., Chicago, Ill.

Wedges (Foundry)

Sterling Wheelbarrow Co., Milwaukee, Wis.

Wedges (Steel)

Anderson, W. H. Tool & Supply Co., 14 Macomb, Detroit, Mich.
Atha Tool Co., ft Chapel, Newark, N. J.
Beall Bros. (Inc.), Alton, Ill.
Collins Co., Collinsville, Conn.
Doble, Abner Co., San Francisco, Cal.
Evansville Tool Works (Coal, Wood Choppers, Felling Stone, etc.), Evansville, Ind.
Falls Mfg. Co. (Splitting), San Francisco, Cal.
Fulton Tool Works (Miners, Wood Choppers, etc.), Canal Fulton, O.
Hardsoeg, Martin Co., Pittsburg, Pa.
Harvey, H. H. (Steel for Quarry Work and Woodman), 606 Atlantic av, Boston, Mass.
Hubbard & Co., Pittsburg, Pa.
Iron City Tool Works, Pittsburg, Pa.
Klein-Logan Co., Pittsburg, Pa.
McINNES STEEL CO. (Ltd.), Corry, Pa. (See adv. index, end of book)
Oliver Iron & Steel Co. (All Kinds), Pittsburg, Pa.
Pittsburg Tool & Drop Forge Co. ("Cheswick," Miners', etc.) Works, Cheswick, Pa.
Pinmb, Fayette R. (Inc.), Tucker & P. R. R., Fkd., Phila., Pa.
Standard Axe & Tool Works (Sidelink Saw), Ridgeway, Pa.
Trow & Holden (For Quarry Work), Barre, Vt.
Warwood Tool Co., Wheeling, W. Va.
Woodruff, Walter W. & Sons Co. (Axe), Mount Carmel, Conn.

Wedges (Treenail)

Buena Vista Hardwood Co., Buena Vista, Va.
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)

Hoskins, J. S. Lumber Co. (Locust), Baltimore, Md.
Palmer, Robert & Son, Sblp bldg & Marine Ry. Co., Noank, Conn.
United States Bung Mfg. Co., 50 S 2d, Brooklyn, N. Y. Factory, Cincinnati, O.

Weeders

American Drill Co., Springfield, O.
Aspinwall Mfg. Co., Jackson, Mich.
Champion Weeder Co., Friedens, Pa.
Dunham, J. W. & Son, Berea, O.
Eureka Mower Co., Utica, N. Y.
Fanning, Edgar Weeder Co., Calverton, N. Y.
Fuller & Johnson Mfg. Co., Madison, Wis.
Greenville Implement Co., Greenville, Mich.
Hailock Weeder Co. (Anti-Clog), York, Pa.
Janesville Machine Co., Janesville, Wis.
Keystone Farm Machine Co. (Straight Bar or Adjustable, Walking or Sulky), York, Pa.
Lovejoy, H. H. & Son, Cambridge, N. Y.
Munnsville Plow Co., Munnsville, N. Y.
National Drill Co., Cambridge, Ind.
Patten & Stafford Co., Canastota, N. Y.
Standard Harrow Co., Utica, N. Y.
Toledo Plow Co. Toledo, O.
Wierd Plow Co. (Adjustable), Batavia, N. Y.

Weeders (Garden)

Allen, S. L. & Co. ("Firefly" & "Farmer"), 110 Market, Phila, Pa.
Bateman Mfg. Co. ("Iron Age"), Grenloch, N. J.
Brown, Hinman & Huntington Co. ("Columbus" Hand), Columbus, O.
Clark, W. J. Co. ("Rapid-Easy"), Salem, O.
Donaldson Bros. (Beet), Mount Clemens, Mich.
Fuller Mfg. Co. ("Daisy" Hand), Danvers, Mass.
Jeliff, C. O. Mfg. Corp. ("Universal"), Southport, Conn.
Keystone Farm Machine Co. (Adjustable), York, Pa.
Strube, C. H. ("Climax"), Sandusky, O.
Thornburgh Mfg. Co. ("Toledo"), Bowling Green, O.
Union Fork & Hoe Co. (Hand), Columbus, O.
Wallingford Mfg. Co., Wallingford, Vt.
Western Steel & Iron Works, (Beet Weeders), De Pere, Wis.

Weeders (Onion)

Hess Machine Works, Kendallville, Ind.

Weighers, Loaders & Baggers (Grain)

Advance Thresher Co., Battle Creek, Mich.
American Mfg. Co., Racine, Wis.
Buffalo Pitts Co., Buffalo, N. Y.
Case, J. I. Threshing Machine Co. (Weighers), Racine, Wis.
Climax Machinery Co. ("Avalanche," Pneumatic; "Star," Centrifugal; "Climax," Drag; Grain Elevating & Handling), Indianapolis, Ind.
Gaar, Scott Co. (Weighers & Baggers), Richmond, Ind.
Geiser Mfg. Co. (Weighers & Baggers), Waynesboro, Pa.
Hart Grain Weigher Co. (Weighers), Peoria, Ill.
Huber Mfg. Co., Marion, O.
Hydraulic Press Mfg. Co., Mount Gilead, O.
Minneapolis Threshing Machine Co. (Baggers), Minneapolis, Minn.
Nichols & Shepard Co. (Weighers, Baggers & Loaders), Battle Creek, Mich.
Northwest Thresher Co., Stillwater, Minn.
Ohio Road Machinery Co. ("Standard" Adjustable Baggers), Oberlin, O.
Port Huron Engine & Thresher Co., Port Huron, Mich.
Reeves & Co. (Weighers), Columbus, Ind.
Robinson & Co. (Weighers), Richmond, Ind.
Steele, Ben Weigher Mfg. Co., Peoria, Ill.
Stevens, A. W. Co., Marquette, Wis.
Westinghouse Co. (Weighers), Schenectady, N. Y.
Willias Mfg. Co., Decatur, Ill.

Weighers (Water)

Willcox Engineering Co. ("Willcox" Automatic), Saginaw, Mich.

Weighing Machines (Automatic)

(See Machinery)

Weights (Counter)

King & Andrews Co. (Cast Iron), Chicago Heights, Ill.

Weights (Elevator)

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Central Foundry Co., Fort Wayne, Ind.
Cornell, J. B. & J. M., 26th & 11th av, New York
King & Andrews Co., Chicago Heights, Ill.
Kings County Iron Foundry, N 13th & Berry, Brooklyn, N. Y.
Koch & Fox, 22d & Glenwood av, Phila., Pa.

Weights (Hitching)

Barber Mfg. Co., Ashtabula, O.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Cheney, S. & Son, Manilus, N. Y.
Donaldson Bros., Mount Clemens, Mich.
Forest City Foundry & Mfg. Co., Cleveland, O.
Gowanda Agricultural Wks., Gowanda, N. Y.
Koch & Fox (Hitching Blocks), 22d & Glenwood av, Phila., Pa.
MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)
Sandage Steel Skein Co., South Bend, Ind.
Weller Hardware & Foundry Co., Horesheads, N. Y.
Western Foundry & Sash Weight Co., 159 Miller, St. Louis, Mo.

Welding (Autogenous)

Davis-Bournonville Co. (The Oxy-Acetylene Process for Welding & Cutting), 90 West, New York.
Indutrsial Oxygen Co. ("Oxy-Acetylene" Oxygenite Process), Hanover B'k Bldg., New York.
Linde Air Products Co. (Oxig-Acetylene), Buffalo, N. Y.
Sanford, F. C., Mfg. Co. (Portable Oxy-Acetylene), Bridgeport, Conn.
SCAIFE, WM. B. & SONS CO., 221 1st av, Pittsburg, Pa. (See adv. index, end of book)
Schaap Flaming Utilities Co., 344 Cumberland, Brooklyn, N. Y.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

*Welding (Boiler Tube)

MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Welding (Electric)

American Electric Welding Co., 736 B'way, New York
American Tube & Stamping Co., Bridgeport, Conn.
Columbiana Boiler Co., Columbiana, O.
Electric Welding Products Co., Cleveland, O.
Goff, Horner & Co. (Ltd.), Frick Bldg., Pittsburg, Pa.
Lorain Steel Co. (Street Railway Track), Johnstown, Pa.
Newton Steel Wheel Co. (Rings, Wheel Rims, etc.), Kalamazoo, Mich.
Standard Welding Co. (Iron & Steel, Thomson Pressed), Central av & E 70th, Cleveland, O.
Thomson Electric Welding Co., Lynn, Mass.
Toledo Electric Welding Co., Spitzer Bldg, Toledo, O.
Welded Steel Barrel Corp., Detroit, Mich.

Welding (Oxyhydric Process)

American Oxyhydric Co., Milwaukee, Wis.
Falk Mfg. Co., Milwaukee, Wis.

Welding (Steam Flue)

Fix's, S. Sons, Leonard & Winter, Cleveland, O.

Welding (Thermit Process)

Goldschmidt Thermit Co., 90 West, New York

Well Supplies (Artesian & Tubular)

(See Machinery, Well Drilling)

Wharf Builders

(See Dock Builders)

Wheel Truing Device

Whitney Mfg. Co. (For Water Tool Grinders), Hartford, Conn.

Wheelbarrow Mfrs.

(See also Barrows, Various Kinds)

Akron Cultivator Co. (Steel), Akron, O.
American Fork & Hoe Co., Cleveland, O.
American Steel Scraper Co. (Steel), Sidney, O.
Ames Plow Co., Quincy Hall, Boston.
Anderson, W. H., Tool & Supply Co., 14 Maccomb, Detroit, Mich.
Archer Iron Works Co. (Steel, All Kinds), 1st Nat. Bank Bldg., Chicago, Ill.
Babcock Mfg. Co. ("Otsego"), Leonardsville, N. Y.
Biggs Boiler Works Co., Akron, O.
Bodley Wagon Co., Memphis, Tenn.
Bryan Mfg. Co. (Steel, etc.), Bryan, O.
Buch's, A. Sons (Wood), Elizabethtown, Pa.
Buffalo Scale Co., Buffalo, N. Y.
Chattanooga Wheelbarrow & Mfg. Co., Chattanooga, Tenn.
Cockburn Barrow & Mach. Co., Jersey City, N. J.
Dederick's, P. K. Sons, Albany, N. Y.
Defiance Box Co. (Wood), Defiance, O.
DONEGAN & SWIFT, ("Swift"), 6 Murray, New York. (See adv. index, end of book)
Eagle Machine Co., Lancaster, O. (See adv. index, end of book)
Earl, F. H. Mfg. Co. (Wooden), Plano, Ill.
FAIRBANKS, MORSE & CO. (Railroad, Canal, etc.), Wabash av. and El-dredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)
Farquhar, A. B. Co. (Ltd.), York, Pa.
Focht, George Sons (Steel), Hoboken, N. J.
Goshen Wheelbarrow Works, Goshen, Ind.
Hake Mfg. Co. (Wood), Grand Rapids, Mich.
Havana Metal Wheel Co. (Steel), Havana, Ill.
Harrison, W. R. & Co., Massillon, O.
Hunt, C. W. Co., West New Brighton, S. I., N. Y.
Jackson Mfg. Co. (Steel), Harrisburg, Pa.
Jones & Laughlin Steel Co., Pittsburg, Pa.
Jordan Wheelbarrow Co. (Wood), Jordan, N. Y.
Kalamazoo Railway Supply Co., Kalamazoo, Mich.
Keystone Farm Machine Co. (Garden), York, Pa.
Kilbourne & Jacobs Mfg. Co. (For all purposes), Columbus, O.
KOPPEL, ARTHUR CO. (Steel), Machesney bldg., Pittsburg, Pa. (See adv. index and branch offices, end of book)
Lansing Wheelbarrow Co. (Steel & Wood), Lansing, Mich.
McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)
McWhinnie, Thomas (Wooden), Poughkeepsie, New York
Magnolia Mfg. Co. (Wooden), Magnolia, Ark.
MARSH COMPANY (All Sizes & Kinds), Old Colony bldg, Chicago, Ill., & 50 Church, New York. (See adv. index, end of book)
New York Wheelbarrow Co., 180 West, New York
Ohio Ceramic Engineering Co. (Steel), Cleveland, O.
OIL WELL SUPPLY CO., 215 Water, Pittsburg, Pa. (See adv. index, end of book)
Prescott, Frank R. (Wood), Meredith, N. H.
Puffer-Hubbard Mfg. Co. (Steel & Wooden), Minneapolis, Minn.
Pugsley & Chapman, 180 West, New York.
Sackett, H. B.; Screen & Chute Co., 4210 State, Chicago, Ill.
Schalkenbach & Budke, Jersey City, N. J.
Scott's Patent Brick Car Co., Knoxville, Tenn.
Scidel, Robert D. (Wrought Iron & Steel), Reading, Pa.
Shumaker Bros. & Nixon (Garden), Castile, N. Y.
Sidney Steel Scraper Co. (Wood & Steel Frame), Sidney, O.
SMITH, T. L. CO., Majestic Bldg., Milwaukee, Wis. (See adv. index and branch offices, end of book)
Southern Foundry & Machine Works, Fredericksburg, Va.
Sterling Wheelbarrow Co. (Roller Bearing, Wood, Steel & Tubular Frame Mortar, Concrete & Contractors, etc.), Milwaukee, Wis.
Stuebner, G. L. Iron Works (Steel, etc.), 12th & Vernon av, Long Island City, New York
Syracuse Chilled Plow Co. (Steel & Wood), Syracuse, N. Y.
Tanner, D. F. (Garden, etc.), Holland, N. Y.
Thomas, G. W. Co., Toledo, O.
Toledo Wheelbarrow Co. ("Bull Frog" Steel Tray & Wooden, etc.), Toledo, O.

Union Iron Works (Steel, etc.), Hoboken, N. J.
Walker, E. W. & Stutz Co. (Wood), Goshen, Ind.

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Zering, H. Mfg. Co., 218 Charles, Cincinnati, Ohio

Wheel Scrapers

(See Road Scrapers, Drag & Wheel)

*Wheels (Agricultural Implement)

(See also Wheels, Metal)

Bettendorf Metal Wheel Co., Davenport, Ia., & Springfield, O.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
LITTLE, J. R. METAL WHEEL CO., Quincy, Ill. (See adv. index, end of book)
PENNSYLVANIA STEEL PULLEY Co. (Pressed Steel), North Side, Pittsburg, Pa. (See adv. index, end of book)

Wheels (Automobile Steering)

(See also Gears, Automobile Steering)

Auto Brass & Aluminum Co., Flint, Mich.
Auto & Power Appliance Co., The Arcade, Cleveland, O.
Byrne, Kingston & Co. ("Kingston"), Kokomo, Ind.
Cambria Forge Co., Johnstown, Pa.
Centaur Motor Co., 59 Franklin, Buffalo, N. Y.
Columbus Brass Co., Columbus, O.
Cramp, Wm. & Sons, Beach & Wall sts., Philadelphia, Pa.
Globe Mach. & Stamping Co., Cleveland, O.
Hussey Drop Forge & Mfg. Co. (Slide, Tilting, Solid, etc.), Cleveland, O.
Irving, Richard, Co., 25 Broad, New York
Jamesville Mfg. Co., Jamesville, N. Y.
Mesinger, H. & P. Mfg. Co., 1807 1st av., New York
Meyer Cycle Co., Fort Wayne, Ind.
Muncie Auto. Parts Co., Muncie, Ind.
Rastetter, L. & Sons, Fort Wayne, Ind.
Smith, A. O. Co., Milwaukee, Wis.
Standard Welding Co., Central av. & 70th, S E., Cleveland, O.
Steam Carriage Boiler Co., Oswego, N. Y.
Tucker Wood Work Co., Sidney, O.
Warner Gear Co., Muncie, Ind.

Wheels (Ball Bearing)

Gardner Sash Balance Co. (For All Purposes), 164 Dearborn, Chicago, Ill.
McCABE HANGER MFG. CO., 425 W 25th, New York. (See adv. index, end of book)
Pressed Steel Mfg. Co. ("Knife" Small, The Bourse), Phila., Pa.

*Wheels (Barrow)

(See also Wheels, Metal)

ELECTRIC WHEEL CO. (Steel), Quincy, Ill. (See adv. index, end of book)
LITTLE, J. R. METAL WHEEL CO., Quincy, Ill. (See adv. index, end of book)
PENNSYLVANIA STEEL PULLEY Co. (Pressed Steel), North Side, Pittsburg, Pa. (See adv. index, end of book)

Wheels (Buffing & Polishing)

(See also Buffing & Polishing Machines)

Bacon, C. N. Felt Works, Winchester, Mass.
Builders' Iron Foundry, Providence, R. I.
Chicago Wheel & Mfg. Co. ("Chicago," Leather, Sheepskin, Canvas, Muslin, etc.), 336 W. Monroe, Chicago, Ill.
Diamond Machine Co., Providence, R. I.
Divine Bros. Co. (The Compress), Utica, N. Y.
Eastern Felt Co., Winchester, Mass.
Easton Polishing Supply Co. (Wood Leather Covered, Sheepskin, Walrus, Canvas, Felt, Paper Wheels, Buffs, etc.), Easton, Pa.
Foot Mfg. Co. (Sheepskin, Solid Bull Neck Leather, Challenge Canvas, etc.), Jersey City, N. J.
Hanson & Van Winkle Co., Newark, N. J.
Logemann Bros. Co. ("Logemann" For Tan-ners, Glove Makers, etc.), Milwaukee, Wis.

Nickel, Adolph, Mfg. Co., 311 Main, Cincinnati, O.

Northampton Emery Wheel Co., Leeds, Mass.
Rockwood Mfg. Co. (Paper), Indianapolis, Ind.
Springfield Mfg. Co., Bridgeport, Conn.
Springfield Tire & Rubber Co. ("Springfield Abrasive" for Machinery, etc.), Springfield, Ohio

Sterling Emery Wheel Mfg. Co., Tiffin, O.
SUPERIOR CORUNDUM WHEEL Co., Waltham, Mass. (See adv. index, end of book)

Thayer, P. E. Co., Pawtucket, R. I.
Tiugue, Brown & Co., 64 Reade, New York
Union Wheel & Mfg. Co., Coxsackie, N. Y.
Zucker & Levett & Loeb Co., 516 W 25th, New York

Wheels (Car)

(See also Wheels, Mine Car)

American Car & Foundry Co. (Chilled, etc.), 915 Olive, St. Louis, Mo. and 165 B'way, New York.
American Steel Founders, Main Office, Commercial B'k Bldg., Chicago, Ill.
Atlanta Car Wheel & Mfg. Co. (Chilled), Atlanta, Ga.
ATLAS CAR & MFG. CO., 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)
Baltimore Car-Wheel Co., Fulton Station, Baltimore, Md.
Barney & Smith Car Co., Dayton, O.
Barnum-Richardson Co., Lime Rock, Conn.
Bass Foundry & Machine Co., Fort Wayne, Ind.
Bloomsburg Car Mfg. Co., Bloomsburg, Pa.
Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg, Chicago, Ill.
Buffalo Car Wheel Foundry Co., Buffalo, N. Y.
Carnegie Steel Co. (Steel), Pittsburg, Pa.
Catawissa Car & Casting Co. (Up to 24 inches with or without axle), Catawissa, Pa.
Cayuta Mfg. Co., Sayre, Pa.
Central Car Wheel Co. (Chilled Iron), Farmers' Bank bldg, Pittsburg, Pa., & McKees Rock, Pa.
Chattanooga Car & Foundry Co., Chattanooga, Tenn.
Chase Foundry & Mfg. Co., Columbus, O.
Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Philadelphia, Pa.
Connellsville Machine & Car Co., Connellsville, Pa.
Decatur Car Wheel & Mfg. Co., Birmingham, Ala.
Dickson Car Wheel Co. (Chilled Car & Engine), Houston, Tex.
Eagle Iron Works Co., Terra Haute, Ind.
Ferguson & Lange Foundry Co. (Chilled), Cly-bourn av. & Willav, Chicago, Ill.
Ford & Kimball, Concord, N. H.
Fort Wayne Foundry & Machine Co. (Car, En-gine, Truck, Tender & Driving), Fort Wayne, Ind.
Green's Car Wheel Mfg. Co., 3018 N Broadway, St. Louis, Mo.
Griffin Wheel Co. (Chilled Iron Wheels of All Kinds), Main Office, 138 Jackson boul., Chicago, Ill.
Haskell & Barker Car Co., Michigan City, Ind.
Kilbourne & Jacobs Mfg. Co. (For Industrial Cars), Columbus, Ohio
KILGORE-PETELER CO., Minneapo-lis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney bldg, Pittsburg, Pa. (See adv. index & branch offices, end of book)
Laconia Car Co., Works, 100 Boylston, Roston, Mass. Works, Laconia, N. H.
Lansing Wheelbarrow Co. (For Industrial Cars), Lansing, Mich.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
Lima Locomotive & Machine Co., Lima, O.
Lobdell Car Wheel Co., Wilmington, Del.
Louisville Car Wheel & Railway Supply Co., 308 5th, Louisville, Ky.
McCOY, HENRY J. CO., 65 & 67 Dey, New York. (See adv. index, end of book)
Manistee Iron Works Co., Manistee, Mich.
Marshall Car Wheel & Foundry Co., Marshall, Tex.
Mount Vernon Var Mfg. Co., Mount Vernon, Ill.
Mesta Machine Co. (Steel), Lewis Bldg., Pitts-burg, Pa.
National Car Wheel Co. (Chilled Iron), Pitts-burg, Pa.
Nelsonville Foundry & Machine Co. (Self-Oil-ing Capless), Nelsonville, O.
New York Car Wheel Co. (All Kinds), Ger-man Ins. bldg, Buffalo, N. Y.
Ohio Ceramic Engineering Co. (For Industrial Cars), Cleveland, O.

Peacock's Iron Works, Selma, Ala.
 Penna. Car Wheel Co., 499 Prehle, Allegheny, Pa.
 Portage Lake Foundry & Machinery Co. (Chilled), Hancock, Mich.
 Ramapo Foundry & Wheel Works, Ramapo, N. Y.
 Reading Car Wheel Co., Ellicott sq, Buffalo, N. Y.
 Risdon Iron Works, San Francisco, Cal.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
 St. Louis Car Wheel Co., (Chilled), Spring av & Mo. Pac. Ry., St. Louis, Mo.
 St. Paul Foundry Co., St. Paul, Minn.
 Sanford-Day Iron Works ("Whitney"), Knoxville, Tenn.
 Sheffield Car Co. (Wrought, Steel & Cast), Three Rivers, Mich.
 Standard Car Wheel Co. (Chilled), Cleveland, O.
 Steiger & Kerr Stove & Foundry Co., San Francisco, Cal.
 Taylor Iron & Steel Co., High Bridge, N. J.
 Tredegar Co., Richmond, Va.
 Watt Mining Car Wheel Co., Barnesville, O.

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Wheels (Car, Ball or Roller Bearing)

Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg, Chicago, Ill.
 Chase Foundry & Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

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 Youngstown Car Mfg. Co. (Roller Bearing), Youngstown, O.

Wheels (Caster)

(See also Caster Manufacturers)

American Wood Working Co. (Wood), 108 Fulton, New York
 Peters', Jno. M. Sons (Wood Caster Rolls), Bleeker, N. Y.
 Sommer's, Jno. Son (Wooden), Newark, N. J.
 Union Porcelain Works (Porcelain), 300 Eckford, Brooklyn, N. Y.
 Williams & Marvin Mfg. Co. (Wood), Deep River, Conn.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Wheels (Chilled Bridge)

ATLAS CAR & MFG. CO., 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Lohdell Car Wheel Co., Wilmington, Del.

*Wheels (Chilled Iron)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

Wheels (Concrete Mixer)

(See Wheels, Metal)

Wheels (Counting & Printing)

Franklin, H. H. Mfg. Co., Syracuse, N. Y.

Wheels (Driving)

American & British Mfg. Co., Providence, R. I., & Bridgeport, Conn.
 Baltimore Car-Wheel Co., Fulton Station, Baltimore, Md.
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Chester Steel Castings Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Commonwealth Steel Co. (Steel), Commerce bldg, St. Louis, Mo. Works, Granite City, Falk Co., ft. 30th, Milwaukee, Wis. Ill.
 Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
 National Car Wheel Co., Pittsburg, Pa.
 New York Car Wheel Co., Buffalo, N. Y.
 Ramapo Iron Works, Hillburn, N. Y.
 Sullivan Machinery Co., 135 Adams, Chicago, Ill.
 Wason Mfg. Co., Brightwood, Springfield, Mass.

Wheels (Driving, Steel Tired)

(See Wheels, Steel Tired Car)

Wheels (Dry Kiln)

(See also Wheels, Metal)

Bates Forge Co., Indianapolis, Ind.
 Chase Foundry & Mfg. Co., Columbus, O.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Wheels (Fifth)

American Roller Bearing Fifth Wheel Co., 745 3d av, Brooklyn, N. Y.
 Bradley, C. C. & Son, Syracuse, N. Y.
 Columbus Bolt Works, Columbus, O.
 Dayton Malleable Iron Co., Dayton, O.
 Eberhard Mfg. Co., Cleveland, O.
 Gogel Mfg. Co., Toledo, O.
 Keystone Forging Co., Northumberland, Pa.
 Millersburg Fifth Wheel Co., Millersburg, Pa.
 National Safety Fifth Wheel Co., Lancaster, Pa.
 Selle Gear Co., Akron, O.
 Weston-Mott Co., Flint, Mich.
 Wilcox, D., Mfg. Co. (Full Line), Mechanicsburg, Pa.

Wheels (Flange)

Avery Stamping Co. ("Never-Break" Steel), Lake & Coe, Cleveland, O.
 Bates Forge Co. (Drop Forged), Indianapolis, Ind.

Wheels (Fly)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)
 Caldwell, H. W. & Son Co. (Small & Large), 17th & Western av., Chicago, Ill.
 Cooper, C. & G. Co., Mount Vernon, O.
 Cresson, Geo. V. Co. (Up to 30 ft.), Allegheny av. W. of 17th, Phila., Pa.
 Danville Foundry & Machine Co., Danville, Pa.
 Dodge Mfg. Co., Mishawaka, Ind.
 Eastwood Wire Mfg. Co., Belleville, N. J.
 Eyster, Weiser & Co., Ltd., York, Pa.
 Fairbanks Co. (Specialty, Automatic, Gas & Steam Engine Wheels), Springfield, O.
 Filer & Stowell Co., Milwaukee, Wis.
 Goodnow, L. H. Fdy. Co. (Finished Ready for Engine), Fitchburg, Mass.
 Great Lakes Engineering Works, Rivard st. & Detroit River, Detroit, Mich.
 Jones & Laughlin Steel Co., Pittsburg, Pa.
 Link Belt Co. (Fly Wheels), 39th & Stewart av., Chicago, Ill.

MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Medart Patent Pulley Co. (Fly Wheels), 3500 De Kalb av, St. Louis, Mo.
 Muir, Hugh, Co., 240 Carroll av., Chicago, Ill.
 Nordberg Mfg. Co., Milwaukee, Wis.
 Philadelphia Roll & Machine Co., S 23d & Wash'n av, Phila., Pa.

PLATT IRON WORKS CO., Dayton, O. (See adv. index & branch offices, end of book)

Poole Engineering & Machine Co., Woodberry Station, Baltimore, Md.
 Porter Foundry & Machine Co., Pittsburg, Pa.

Scaife Foundry & Machine Co., Pittsburg, Pa.
 Southwark Foundry & Machine Co., Phila., Pa.
 Vulcan Iron Works, Wilkes-Barre, Pa.
 Wood's, T. B. Sons Co., Chambersburg, Pa.

*Wheels (Gear, Hard Fibre)

AMERICAN VULCANIZED FIBRE Co., Wilmington, Del. (See adv. index, end of book)

DELAWARE HARD FIBRE CO., Wilmington, Del. Works: Marshalltown, Del. (See adv. index, end of book)

DIAMOND STATE FIBRE CO., Elsmere, Del. (See adv. index, end of book)
VAN DORN & DUTTON CO., 2714 E. 79th, S. E., Cleveland, O. (See adv. index, end of book)

WILMINGTON FIBRE SPECIALTY Co., Wilmington, Del. (See adv. index, end of book)

*Wheels (Hand Chain)

READING CRANE & HOIST WORKS. Reading, Pa. (See adv. index, end of book)

Wheels (Hand & Push Car)

Atlas Bolt & Screw Co., Cleveland, O.
 Barnum & Richardson Mfg. Co., 64 S Jefferson, Chicago, Ill.
 Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg, Chicago, Ill.
BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. Y. (See adv. index, end of book)
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
 Eyster, Weiser & Co. (Ltd.), York, Pa.
FAIRBANKS, MORSE & CO. (Pressed steel, etc.), Wabash av. and Eldredge pl., Chicago, Ill. (See adv. index, & branch offices, end of book)

Franklin, H. H., Mfg. Co. (Finished Castings), Syracuse, N. Y.
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Lansing Wheelbarrow Co., Lansing, Mich.
LITTLE, J. R. METAL WHEEL CO., Quincy, Ill. (See adv. index, end of book)
 Lohdell Car Wheel Co., Wilmington, Del.
 New York Car Wheel Co., Buffalo, N. Y.
 Peacock's Iron Works, Selma, Ala.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Sheffield Car Co., Three Rivers, Mich.

Wheels (Logging Car)

American Brake Shoe & Foundry Co., Mahwah, N. J.
 American Car & Foundry Co. (Self-Oiling), 915 Olive. St. Louis, Mo. & 165 B'way, New York.
 Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg
 Butterworth & Lowe, Grand Rapids, Mich.
CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
 Chase Foundry & Mfg. Co., Columbus, O.
 Diamond Iron Works, Minneapolis, Minn.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Holt Mfg. Co., Stockton, Cal.
 Kilby Locomotive & Machine Works, Anniston, Ala.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
KOPPEL, ARTHUR CO., Machesney hldg., Pittsburg, Pa. (See adv. index & branch offices, end of book)

Lansing Wheelbarrow Co., Lansing, Mich.
LITTLE, J. R. METAL WHEEL CO. (Steel), Quincy, Ill. (See adv. index, end of book)

Lohdell Car Wheel Co., Wilmington, Del.
 Medart Patent Pulley Co. (Lumber Truck), 3500 De Kalb av, St. Louis, Mo.
 Peacock's Iron Works, Selma, Ala.
 Ramapo Fdry. & Machine Wks., Ramapo, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

St. Louis Car Wheel Co. (Chilled), Spring av & Mo. Pac. R. R., St. Louis, Mo.
 Sheffield Car Co., Three Rivers, Mich.
 Studebaker Bros. Mfg. Co., South Bend, Ind.

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Whitcomb Bros. (Wrought Iron & Steel), Barre, Vt.

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(See also Gears, Marine Steering)

Barnes Tool Co., New Haven, Conn.
Byrne, Kingston & Co. ("Kingston"), Kokomo, Ind.
Edson Mfg. Co., 255 Atlantic av., Boston, Mass.
Langhlin, Thomas Co., Portland, Me.
Maryland Steam Block & Pump Works, Baltimore, Md.
Turner Brass Works, Sycamore, Ill.

Wheels (Metal)

Baker, A. D. Co., Swanton, O.
Bettendorf Metal Wheel Co., Davenport, Ia., & Bush, Clement, Quincy, Ill. Springfield, O.
ELECTRIC WHEEL CO. (Steel Wagon, Carts, etc.), Quincy, Ill. (See adv. index, end of book)
Empire Mfg. Co., Quincy, Ill.
Farmers' Handy Wagon Co., Saginaw, Mich.
Fuller & Johnson Mfg. Co., Racine, Wis.
Geneva Metal Wheel Co., Geneva, O.
HEARTLEY MACHINE, VARIETY Iron & Tool Works (Children's Carriage, Wheelbarrow, Implements, etc.), Toledo, O. (See adv. index, end of book)
Havana Metal Wheel Co., Havana, Ill.
Kilbourne & Jacobs Mfg. Co. ("Lewis" Steel Spoke), Columbus, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
Lansing Wheelbarrow Co., Lansing, Mich.
LITTLE, J. R. METAL WHEEL CO. (For All Purposes), Quincy, Ill. (See adv. index, end of book)

Newton Steel Wheel Co. ("Newton," Steel Buggy, etc.), Kalamazoo, Mich.
Niles & Scott Co., Laporte, Ind.

PENNSYLVANIA STEEL PULLEY Co., North Side, Pittsburg, Pa. (See adv. index, end of book)

Peru Plow & Wheel Co., Peru, Ill.
Quincy Corn Planter Co., Quincy, Ill.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)

Shunk Plow Co. Steel for Farm Wagons & Implements), Bucyrus, O.
Sidney Steel Scraper Co. ("Haslup's" Steel), Sidney, O.

Stahl, William, Sprayer Co., Quincy, Ill.
Toledo Metal Wheel Co. (Small Wheels for Toy Automobiles, Baby Carriages, etc.), Toledo, Ohio.

Weston-Mott Co. (Steel Wire), Flint, Mich.
Whiteside Wheel Co. ("Ste-El-Astic"), Indianapolis, Ind.

WORCESTER PRESSED STEEL CO. (Steel), Worcester, Mass. (See adv. index, end of book)

Wheels (Mine Car)

American Brake Shoe & Foundry Co. (Steel), Mahwah, N. J.
Americau Car & Foundry Co. (Self-Oiling), 915 Olive, St. Louis, Mo. & 165 B'way, New York.
American Steel Casting Co., Chester, Pa.
American Steel Foundries, Main Office, Commercial National Bank bldg, Chicago, Ill.
Archer Iron Works Co. (Oil Bearing), 1st Nat'l Bank Bldg., Chicago, Ill.
Atlanta Car Wheel & Mfg. Co., Atlanta Ga.
ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)
Barnum & Richardson Mfg. Co., 64 S. Jefferson, Chicago, Ill.
Bartlett & Co., Saginaw, Mich.

Bowler Fdy. Co. (Chilled), Cleveland, O.
Buda Foundry & Machine Co., Harvey, Ill., & Railway Exchange bldg, Chicago, Ill.

CANTON FOUNDRY & MACHINE CO., Canton, O. (See adv. index, end of book)
Catawissa Car & Casting Co., Catawissa, Pa.

Chas Foundry & Mfg. Co., Columbus, O.
Connellsville Machine & Car Co., Connellsville, Pa.

Cresson Foundry, Machine & Car Co., Ebensburg, Pa.
Eagle Iron Works, Terre Haute, Ind.

Eyster, Welser & Co. (Ltd.), York, Pa.
FAIRBANKS, MORSE & CO., Wabash av & Eldredge pl., Chicago, Ill. (See adv. index & branch offices, end of book)

Griffin Wheel Co., Main Office, Western Union bldg, Chicago, Ill.

Harman & Hassert, Bloomsburg, Pa.
Helmick Foundry & Machine Co., Fairmont, W. Va.

Hempfield Foundry Co., Greensburg, Pa.
Irwin Foundry & Mine Car Co. ("Eureka" Waste Packed), Irwin, Pa.

Kanawha Mine Co. (Wheels & Axles), Christy, W. Va.
Kilby Locomotive & Machine Works, Anniston, Ala.

KILGORE-PETELER CO. (Chilled Iron, etc.), Minneapolis, Minn. (See adv. index, end of book)

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Lansing Wheelbarrow Co., Lansing, Mich.
Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Litchfield Fdry. & Mach. Co., Litchfield, Ill.
Lobdell Car Wheel Co., Wilmington, Del.

MacKINNON BOILER & MACHINE Co., Bay City, Mich. (See adv. index, end of book)

Massillon Foundry & Machine Co., Massillon, Ohio
Mineral Ridge Mfg. Co., Mineral Ridge, O.
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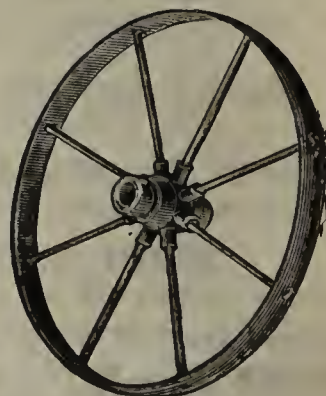
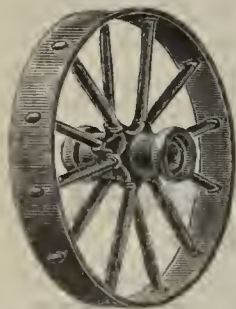
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 Reliance Steel Casting Co., Pittsburg, Pa.
RUSSEL WHEEL & FOUNDRY CO.,
 Detroit, Mich. (See adv. index, end of book)

St. Louis Car Wheel Co. (Chilled), Spring av. & Mo. P. R. R., St. Louis, Mo.
 Sanford-Day Iron Works ("Whitney"), Knoxville, Tenn.

Sheld Car Co., Three Rivers, Mich.
 Star Mfg. Co., New Lexington, O.
 Stine, S. B., Osceola Mills, Pa.
 Taylor Iron & Steel Co., High Bridge, N. J.
 Union Iron Works (Inc.), Spokane, Wash.
 Vulcan Iron Works, Wilkesbarre, Pa.
 Watt Mining Car Wheel Co. (Self-Oiling), Barnesville, Ohio.

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 Reed Mfg. Co., Erie, Pa.

Wheels (Polishing)

Page Belting Co. (Leather), Concord, N. H.

Wheels (Polishing, Compressed Linen)

Kortum Mfg. Co. ("Kortum"), Buffalo, N. Y.

Wheels (Pressed Steel)

Buda Foundry & Mfg. Co., Harvey, Ill., & Railway Exchange bldg., Chicago, Ill.
 Clark, W. J., Salem, O.
 Kalamazoo Railway Supply Co. ("Kalamazoo" for Hand & Push Cars), Kalamazoo, Mich.

PENNSYLVANIA STEEL PULLEY CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Wheels (Propeller)

(See also Ship Builders)

Barber Bros. (Reversing), Syracuse, N. Y.
 Bay City Iron Co., Bay City, Mich.
 Benton & Son (Reversing), La Crosse, Wis.
 Case, A. W. & Son, Highland Park, Conn.
 Chester Steel Casting Co., Chester, Pa., & 407 Sansom, Phila., Pa.

Connell, J. D. Iron Works Co. (Iron & Composition), New Orleans, La.
 Cramp, Wm. & Sons Ship & Engine Building Co., Phila., Pa.

Cross, M. O. Engine Co., Detroit, Mich.
 Duluth Gas Engine Works ("Crescent"), Duluth, Minn.

Fairbanks-Grant Mfg. Co., Ithaca, N. Y.
 Ferguson, F. & Son, Hoboken, N. J.
 Great Lakes Engineering Works Rivard & Detroit River, Detroit, Mich.

King Iron Works, 226 Ohio, Buffalo, N. Y.
 Lacy, Jas. J. & Co., Baltimore, Md.
 Lake Shore Engine Works ("New Superior" Reversible), Marquette, Mich.

Lockwood Mfg. Co., 61 Sumner, E. B., Boston, Mass.

McFarland Foundry & Machine Works ("Hartman"), Trenton, N. J.

MACKINNON BOILER & MACHINE CO. (Specialty, Small Yacht Wheels), Bay City, Mich. (See adv. index, end of book)

Macbeth Iron Co., Cleveland, O.
 Marine Hardware Co. ("Geyer" Reversible), Peabody, Mass.

Michigan Wheel Co., Grand Rapids, Mich.
 Montague Iron Works Co., Montague, Mich.

MORRIS MACHINE WORKS, Baldwinville, N. Y. (See adv. index & branch offices, end of book)

New London Marine Iron Works, New London, Conn.

New York Gear Works, 56 Greenpoint av., Brooklyn, N. Y.

Norwalk Brass Co., Norwalk, Conn.
 Paine, Jas. H. & Son, Noank, Conn.
 Penn Steel Casting & Machine Co., Chester, Pa.
 Pusey & Jones Co. (Also Gearing Wheels), Wilmington, Del.
 Reeves, Paul & Son ("Reeves") Tubal Manganese Bronze, also Brass, Bronze & Phosphor Bronze), 1415 Catharine, Phila., Pa.

Roper, C. F. & Co. ("Roper"), Hopedale, Mass.
 Seaboard Steel Casting Co., Chester, Pa.
 Sheriff's Mfg. Co., 124 Barclay, Milwaukee, Wis.

Spaulding Engine Co. (Reversible for Launches), St. Joseph, Mich.

Sterling Engine Co. ("Sterling" Reversible Blade for Motor Boats), Buffalo, N. Y.

Sullivan, Jno. W., 827 E. 9th, New York.
 Thropp, John E., Sons Co., Trenton, N. J.
 Trout, H. G., Buffalo, N. Y.

Truscott Boat Mfg. Co. (For Pleasure Crafts), St. Joseph, Mich.

Wheels (Radiator Valve, Wood)

(See also Wheels, Valve)

Estes, E. B. & Sons, 74 Warren, New York.
 Novelty Turning Co., Norway, Me.
 Thayer, Geo. A., Spruce Corner, Mass.

Wheels (Ratchet Brake)

AMERICAN VULCANIZED FIBRE CO., (Fibre), Wilmington, Del. (See adv. index, end of book)

Baker, John S. ("Beverly" Ratchet Clutch Vertical, for Vestibuled Street Cars), Beverly, Mass.

*Wheels (Roller Skate)

DELAWARE HARD FIBRE CO., (Fibre), Wilmington, Del., Works: Marshalltown, Del. (See adv. index, end of book)

Wheels (Rubber Tired)

Clark, Geo. P. Co., Windsor Locks, Conn.
 Lansing Wheelbarrow Co. (Truck), Lansing, Mich.
 Meeker Mfg. Co., Dayton, Ohio.

Wheels (Self-Oiling)

(For Mine & Other Light Cars)

American Car & Foundry Co., 915 Olive, St. Louis, Mo. & 165 B'way, New York.

ATLAS CAR & MFG. CO., THE ("Wright"), 1289 Marquette rd., N. E., Cleveland, O. (See adv. index, end of book)

CENTRAL IRON WORKS (For Coal Cars), Quincy, Ill. (See adv. index, end of book)

Chase Foundry & Mfg. Co., Columbus, O.
 Chrome Steel Works (Mine Car, Canada Patent), Kent av., e Keep, Brooklyn, N. Y.

Davis, F. M. Iron Works Co., Denver, Col.
 Denver Engineering Works Co., Denver, Col.
 Helmick Foundry & Machine Co. (Chilled), Fairmont, W. Va.

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

KOPPEL, ARTHUR CO., Machesney Bldg., Pittsburg, Pa. (See adv. index, end of book)

Lansing Wheelbarrow Co., Lansing, Mich.
 Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Lobdell Car Wheel Co., Wilmington, Del.
 Mine & Smelter Supply Co., Denver, Col.
 Peacock's Iron Works, Selma, Ala.

Phillip's Mine Supply Co., Pittsburg, Pa.
RAILSTON STEEL CAR CO., Columbus, O. (See adv. index & branch offices, end of book)

Stine, S. B., Osceola Mills, Pa.
 Truax Mfg. Co., 1725 Wazee, Denver, Col.

Union Iron Works, Spokane, Wash.
 Watt Mining Car Wheel Co. (Mine Car), Barnesville, O.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES. **ERNST WIENER** COMPANY.

475 Fulton bldg., New York. (See adv. index & branch offices, end of book)
 Youngstown Car Mfg. Co. (Plain & Roller Bearing), Youngstown, O.

*Wheels (Skip)

KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)

Wheels (Sprocket)

American Brake Shoe & Foundry Co., Mahwah, N. J.

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
BARTLETT, C. O. & SNOW CO., French st., Cleveland, O. (See adv. index, end of book)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

Buhl Malleable Co., Detroit, Mich.
 Caldwell, H. W. & Son Co., 17th & Western av., Chicago, Ill.

Chain Belt Co., Milwaukee, Wis.

CHISHOLM & MOORE MFG. CO., (Chain), 49th & Lake, Cleveland, O. (See adv. index, end of book)

Cresson, Geo. V. Co., Allegheny av., W of 17th, Phila., Pa.

DAVIS, RODNEY, 626 Race, Phila., Pa. (See adv. index, end of book)
 Diamond Chain & Mfg. Co., Indianapolis, Ind.
 Diamond Iron Works (For Saw Mills, etc.), Minneapolis, Minn.

Dodge Mfg. Co., Mishawaka, Ind.
 Exeter Machine Works, Pittston, Pa.
 Filer & Stovell Co., Milwaukee, Wis.

FOOTE BROS. GEAR & MACHINE CO., (Plain or Hub), 44-50 N. Carpenter, Chicago, Ill. (See adv. index, end of book)

Frost Mfg. Co., Galesburg, Ill.
GANSCHOW, WM. CO. (Plain or Hub), 270 Washington boul., Chicago, Ill. (See adv. index, end of book)

Garland, M. Co., Bay City, Mich.
 Great Western Mfg. Co., Leavenworth, Kan.

JAMES, D. O. MFG. CO. (Plain or Hub), 351 W. Monroe, Chicago, Ill. (See adv. index, end of book)

JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)

Jones, W. A. Fdry. & Machine Co. (For Chain Drives, Gearing), 143 W North av., Chicago, Ill.

Link Belt Co., W. 39th & Stewart av., Chicago, Ill., & 299 B'way, New York.
 Marseilles Mfg. Co., Marseilles, Ill.

MEAD-MORRISON MFG. CO., Cambridge (Boston), Mass., & 11 B'way, New York. (See adv. index & branch offices, end of book)

Medart Patent Pulley Co., 3500 DeKalb av., St. Louis, Mo.

Mey Chain Belting Engineering Works (Chain Sprockets), 77 Washington, Buffalo, N. Y.
 Michigan Sprocket Chain Co., Detroit, Mich.

MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, Minn. (See adv. index & branch offices, end of book)

Moline Malleable Iron Co., St. Charles, Ill.
 Nordyke & Marmon Co., Indianapolis, Ind.

Philadelphia Gear Works (Inc.), 12th & Vine, Phila., Pa.

Port Huron Engine & Thresher Co., Port Huron, Mich.

Poole Engineering & Machine Co., Woodbury Station, Baltimore, Md.

Portland Iron Works, Portland, Ore.

READING CRANE & HOIST WORKS, Reading, Pa. (See adv. index, end of book)

Seafie Foundry & Machine Co., Pittsburg, Pa.
 Stillin & Richards Mfg. Co., 147 Fulton, Chicago, Ill.

Spacke, F. W. Machine Co., Indianapolis, Ind.
 Stephens-Adamson Mfg. Co., Aurora, Ill.

Taylor Iron & Steel Co., High Bridge, N. J.
 Tioga Foundry Co., 22nd & Allegheny av., Phila., Pa.

WEBSTER MFG. CO., 1075 W. 15th, Chicago, Ill. & 88 Reade, New York. (See adv. index & branch offices, end of book)

Wolf Co., Chambersburg, Pa.

Wheels (Steel Tired Car)

Green's Car Wheel Mfg. Co., 301S N B'way, St. Louis, Mo.

Lehigh Car Wheel & Axle Works, Catasauqua, Pa.

Lobdell Car Wheel Co., Wilmington, Del.
 Prosser, Thos. & Son (the Krupp), 15 Gold, New York.

Railway Steel Spring Co. (For Electric Railway Cars), ("Paige" Spoke & Plate Engine Truck, "Paige," "Allen," "Boles" Spoke Engine & Coach or Tender, etc.), 30 Church, New York.

Standard Steel Works Co. (Car & Locomotive), Harrison Bldg., Phila., Pa.

Taylor Electric Truck Co., Troy, N. Y.

Taylor Iron & Steel Co., High Bridge, N. J.

Wheels (Steel Truck)

(See also Wheels, Metal)

American Brake Shoe & Foundry Co., Mahwah, N. J.
 Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill. Works, Harvey, Ill.
 Chase Foundry & Mfg. Co., Columbus, O.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
 Fulton Foundry & Mach. Co., Atlanta, Ga.
 Jones & Laughlin Steel Co., Pittsburgh, Pa.; 220 B'way, New York
 Kilburne & Jacobs Mfg. Co., Columbus, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
LITTLE, J. R. METAL WHEEL CO., Quincy, Ill. (See adv. index, end of book)
 Niles & Scott Co., La Porte, Ind. (book)
 Ohio Ceramic Eng. Co., Cleveland, O.
 Parish & Bingham Co., Hamilton S. of Coe, Cleveland, O.
PENNSYLVANIA STEEL PULLEY Co., North Side, Pittsburgh, Pa. (See adv. index, end of book)
 Prosser, Thos. & Son ("The Krupp"), 15 Gold, New York
 Railway Steel Spring Co., 30 Church, New York
 Sheffield Car Co., Three Rivers, Mich.

Wheels (Steel Vehicle)

(See also Wheels, Metal)

American Steel Wheel Co., Alexandria, Ind.
 Bryant Steel Wheel & Rim Co., Columbus, O.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
 Geneva Metal Wheel Co., Geneva, O.
 Newton Steel Wheel Co., Kalamazoo, Mich.
 Parish & Bingham Co., Hamilton nr Coe, Cleveland, O.
PENNSYLVANIA STEEL PULLEY Co., North Side, Pittsburgh, Pa. (See adv. index, end of book)

Wheels (Steering)

(See Wheels, Automobile Steering; also Wheels, Marine Steering)

Wheels (Street Car)

American Car & Foundry Co., St. Louis, Mo., & 165, B'way, New York
 Atlanta Car Wheel & Mfg. Co. (Chilled), Atlanta, Ga.
 Baltimore Car Wheel Co., Fulton Station, Baltimore, Md.
 Brill, J. G. Co., 62d & Woodland av, Phila., Pa.
 Carnegie Steel Co. ("Schoen," Solid Forged & Rolled Steel), Pittsburgh, Pa.
 Chattanooga Car & Foundry Co., Chattanooga, Tenn.
 Chrome Steel Works, Chrome, N. J.
 Curtis Motor Truck Co., Decatur, Del.
 Duquesne Steel Foundry Co. (Rolled Steel), Pittsburgh, Pa.
 Griffin Wheel Co., Main Office, 138 Jackson boul., Chicago, Ill.
 Laconia Car Co. Works, 100 Boylston, Boston, Mass. Works, Laconia, N. H.
 Lehigh Car Wheel & Axle Works, Catasauqua, Pa.
 Lobdell Car Wheel Co., Wilmington, Del.
 National Car Wheel Co. (Chilled Iron), Pittsburgh, Pa.
 New York Car Wheel Co., Buffalo, N. Y.
 Phila. Car Wheel Co., Betz bldg., Phila., Pa.
 Works, Black Rock, Buffalo, N. Y.
 Railway Steel Spring Co. (Steel Tired Motor), 30 Church, New York
 St. Louis Car Wheel Co. (Chilled), Spring av & Mo. Pac. Ry., St. Louis, Mo.
 Standard Car Wheel Co. (Chilled), Cleveland, Ohio
 Standard Steel Works C. (Rolled Steel), Harrison Bldg., Phila., Pa.
 Taylor Iron & Steel Co., High Bridge, N. J.

Wheels (Tire Measuring)

Comstock, Geo. S. (Graduated with Pointer), Mechanicsburg, Pa.
WELLS BROS. & CO., Greenfield, Mass. (See adv. index, end of book)
 Wiley & Russell Mfg. Co. ("Green River"), Greenfield, Mass.

Wheels (Tracing)

Arcade Mfg. Co., Freeport, Ill.
 Cassady-Fairbank Mfg. Co., 6106 La Sella, Chicago, Ill.
 Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.

Wheels (Traveling Crane)

American Brake Shoe & Foundry Co., Mahwah, N. J.
 Lobdell Car Wheel Co. (Chilled & Double Flange), Wilmington, Del.
 New York Car Wheel Co., Buffalo, N. Y.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. (See adv. index, end of book)
WHITING FOUNDRY EQUIPMENT Co., Harvey, Ill. (See adv. index & branch offices, end of book)

Wheels (Trolley)

Ajax Metal Co., 46 Richmond, Phila., Pa., & Birmingham, Ala.
 Anderson, Albert & J. M. Mfg. Co. ("West End," Made of Special Metal), 287a, S. B., Boston, Mass.
 Bayonet Trolley Harp Co. ("Bayonet," Pure Copper, Self-Lubricating), Springfield, O.
 Benedict & Burnham Mfg. Co. ("Franklin"), Waterbury, Conn.
 Brady Brass Co. ("Cyprus"), Jersey City, N. J.
 Buckeye Iron & Brass Works (Bronze), Dayton, Ohio
 Central Union Brass Co., St. Louis, Mo.
 Columbia Machine Works & Malleable Iron Co., 269 Chestnut, Brooklyn, N. Y.
 Dayton Mfg. Co., Dayton, O.
 Detroit Trolley Wheel & Elec. Equipment Co. ("Feltolyer"), Detroit, Mich.
 Electric Ry. Equipment Co., 1938 W 5th, Cincinnati, O.
 Electric Traction Supply Co. (Pure Copper), St. Louis, Mo.
 Elyria Trolley Supply Co. (Self-Lubricating), Elyria, O.
 Erie Malleable Iron Co., Erie, Pa.
 Eureka Tempered Copper Works (Bronze), North East, Pa.
 Garton, W. R. Co. ("Garton," "Urban," "Interurban"), 118 W Jackson boul., Chicago, Ill.
GENERAL ELECTRIC CO. (Composed of a Copper Alloy, Self-Lubricating), Schenectady, N. Y., & 30 Church, New York. (See adv. index & branch offices, end of book)
 Graham, Jas. & Co., New Haven, Conn.
 Hensley Trolley Co., Huntington, Ind.
 Hercules Metal Works (Bronze), Catasauqua, Pa.

International Register Co. ("Exeelsior"), 118 W Jackson boul., Chicago, Ill.
 Ives, H. B. Co. ("New Haven"), New Haven, Conn.
 Johns, H. W.-Manville Co. ("J. M."), 100 William, New York
 Kingsland-Kay-Cook Mfg. Co., Mullanphy & 11th, St. Louis, Mo.

LUMEN BEARING CO. ("Ideal," Wearing Part is Made of Drop Forged Copper), Buffalo, N. Y. (See adv. index, end of book)
 Magnus Metal Co., Buffalo, N. Y. (See adv. index, end of book)
 More-Jones Brass & Metal Co., St. Louis, Mo.
 New Departure Mfg. Co., Bristol, Conn.

NUTTALL, R. D. CO. ("Union Stand- ard," Composed of a Copper Alloy), Fayette & Garrison pl., Pittsburgh, Pa. (See adv. index, end of book)

Ridlon, Frank Co. ("Ridlon," U Grooved Copper), Boston, Mass.

Star Brass Works ("Kalamazoo," Pure Copper), Kalamazoo, Mich.
 Stuart, Howland Co. ("Amesbury"), Boston, Mass.

United Copper Foundry Co., Boston, Mass.
 Valle & Kimes, Dayton, O.
 Wesco Supply Co. ("Wesco," Pure Copper), St. Louis, Mo.

Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

WESTINGHOUSE ELECTRIC & MFG. Co., Union Bank Bldg., Pittsburgh, Pa. (See adv. index & branch offices, end of book)
 Williams, E. A. & Son, Jersey City, N. J.

Wheels (Valve)

(See also Wheels, Radiator Valve)

Lord, L. L. Co. ("Lord-Noburn"), Meadville, Pa.
 Ohio Brass Co. (Wood Radiator), Mansfield, O.
 Stiles, H. A. & Co. (Wood), 176 Federal, Boston, Mass.
 Sawyer Tool Mfg. Co. ("Prouty" Wire), Fitchburg, Mass.

Wheels (Vehicle)

(See Wheels, Metal; also Wheels, Steel Vehicle)

Wheels (Well)

American Foundry & Mfg. Co., St. Louis, Mo.
 Laughlin, Thos., Co. (Anti-Friction), Portland, Me.
 National Supply Co., Baltimore, Md.
 New London Vise Works (Roller Bushed), New London, Conn.
 Penn Hardware Co., Reading, Pa.
 Reading Hardware Co., Reading, Pa.
 Rumsey & Co. (Ltd.) ("Rumsey" Iron), Seneca Falls, N. Y.
 Susquehanna Casting Co., Wrightsville, Pa.
 Weller Hardware & Foundry Co., Horseheads, N. Y.
 Wilcox, Crittenden & Co., Middletown, Conn.
 Wrightsville Hardware Co., Wrightsville, Pa.

Wheels (Wheelbarrow)

(See Wheels, Barrow; also Wheels, Metal)

Wheels (Wire)

Jamesville Mfg. Co., Jamesville, N. Y.
 Kirk, Latty Mfg. Co., Cleveland, O.
 Lee & Porter (With Channel Irons for Cushion Rubber Tires), Buchanan, Mich.
 Light Mfg. & Foundry Co., Pottstown, Pa.
 Neustadt, J. H. Co., 826 S 18th, St. Louis, Mo.
 Rastetter, Louis & Son, Fort Wayne, Ind.
 Reed & Curtis Machine Screw Co., Worcester, Mass.
 Weston, I. A. Co. (Ball Bearing), Syracuse, N. Y.
 Weston-Mott Co. (Steel Rims), Flint, Mich.

Wheels (Wood)

Archibald Wheel Co., Lawrence, Mass.
 Biddle & Smart Co., Amesbury, Mass.
 Crane & MacMahon, 8 Bridge, New York
 Dickinson Ball Bearing Wheel & Vehicle Co. (With Ball Bearing Boxes), Little Rock, Ark.
 Eames, A. M. & Co., South Framingham, Mass.
 Eberly & Orris, Mechanicsburg, Pa.
ELECTRIC WHEEL CO., Quincy, Ill. (See adv. index, end of book)
 Hoopes Bro. & Darlington, West Chester, Pa.
 Imperial Wheel Co. ("Imperial," "Whalebone"), Flint, Mich.
 Jamesville Mfg. Co., Jamesville, N. Y.
 Jones, Phineas & Co., Newark, N. J.
 Jones & Burt (Artillery), Utica, N. Y.
 Madison Wheel Co., Madison, O.
 Mecker Mfg. Co., Dayton, O.
 Muncie Wheel & Jobbing Co. ("Bann" Auto), Muncie, Ind.
 New Haven Carriage Co., New Haven, Conn.
 Prudden, W. K. & Co., Lansing, Mich.
 Roger Wheel Co., Cincinnati, O.
 Royer Wheel Co. ("Sarven" "Warner"), Cincinnati, O.
 Salisbury Wheel & Mfg. Co., Jamestown, N. Y.
 Schwarz Wheel Co., 135 N 12th, Phila., Pa.
 Sendelbach Wheel Co. ("Sarven" Wheels for Heavy Trucks, etc.), E. St. Louis, Ill.
 Standard Wheel Co., Terre Haute, Ind.
 Weston-Mott Co., Utica, N. Y.
 Wilmington Wheel Mfg. Co., Wilmington, Del.
 Zwick & Greenwald Wheel Co., Dayton, O.

Wheels (Wood Polishing)

Diamond Machine Co., Providence, R. I.

Wheels (Worm)

(See Gears, Worm)

Wheels & Axles (Ball or Roller Bearing)

American Roller Bearing Co. (Ball & Roller), S. Framingham, Mass.
 Archibald Wheel Co., Lawrence, Mass.
ATLAS CAR & MFG. CO., THE, 1289 Marquette rd., N E, Cleveland, O. (See adv. index, end of book)
 Buchanan Ball Bearing & Dust Proof Axle Co., Buchanan, Mich.
 Buda Foundry & Mfg. Co., Railway Exchange bldg., Chicago, Ill., & Harvey, Ill.
 Case Mfg. Co., Columbus, O.
 Chase Foundry & Mfg. Co., Columbus, O.
 Concord Axle Co. ("Brown's" Roller Bearing), Penacook, N. H.
 Consolidated Mfg. Co., Toledo, O.

Detroit Screw Works, Detroit, Mich.
 Evans, Coppins & Stark Co. (Ball), Princeton, Ill.
 Federal Auto & Wheel Co., DeKalb, Ill.
 Hutchison Jno. Mfg. Co. (Roller Bearings), Garford Co., Elyria, O.
KILGORE-PETELER CO., Minneapolis, Minn. (See adv. index, end of book)
 Lee & Porter Mfg. Co. ("Porter" Vehicle), Buchanan, Mich.
 Meeker Mfg. Co. (Ball Bearing), Dayton, O.
 Muncie Wheel & Jobbing Co., Muncie, Ind.
 Moffett Vehicle Bearing Co. (Roller), Saginaw, Mich.
 Pressed Steel Mfg. Co. (Ball), Bourse bldg., Phila., Pa.
 Smith, A. O. Co., Milwaukee, Wis.
 Standard Ball Axle Works, Lancaster, Pa.
 Timken Roller Bearing Axle Co. (Rolley only, Vehicle & Automobile), Canton, O.
 Weston-Mott Co. (Automobile, Carriage, etc.), Flint, Mich.

RAILROAD SPECIALISTS FOR ALL INDUSTRIES **ERNST WIENER COMPANY**

475 Fulton bldg, New York. (See adv. index & branch offices, end of book)

Whetstones

Deerlick Oil Stone Co., Chagrin Falls, O., & 7 Warren, New York.
 Pike Mfg. Co., 151 Chambers, New York & Pike Station, N. H.

*Whims (Horse)

ALLIS-CHALMERS CO., Milwaukee, Wis. (See adv. index & branch offices, end of book)

Whip Stocks

Harris Mfg. Co. (Wood), Johnson City, Tenn.

Whisk Brooms

(Write Us for Other Names)

Harrah & Stewart Mfg. Co., Des Moines, Ia.
 Plunkett, Chas., 205 Duane, New York.

Whistles (Air)

Buckeye Iron & Brass Works, Dayton, O.
LUNKENHEIMER CO., General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
NATIONAL GAUGE CO., 168 Sth, Brooklyn, N. Y. (See adv. index, end of book)

Whistles (Automobile & Motor Boat)

(See also Horns, Automobile; also Horns, Fog)
 Chase Machine Co., Cleveland, O.
 City Machine & Mfg. Co., 90 Orchard, Detroit, Mich.
 Durkee, C. D. & Co. (Motor Boat), 2 South, New York
 Edmonds & Jones Mfg. Co. (Motor Boat), 318 Riopelle, Detroit, Mich.
 Gas Engine Whistle Co., 1133 B'way, New York
 Gray-Hawley Mfg. Co., 605 Fort av, Detroit, Mich.
 Mossberg Wrench Co., Central Falls, R. I.
 Sibbly & Pitman ("Tritone"), 26 Warren, New York

Whistles (Chime)

American Steam Gauge & Valve Mfg. Co., 203 Camden, Boston, Mass.
 Buckeye Iron & Brass Works, Dayton, O.

Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)

CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)

Eastwood Wire Mfg. Co. ("Eastwood" Single Bell), Belleville, N. J.
 Fewlass Leen Brass & Iron Works, 456 E 2d, Cincinnati, O.

Lonergan, J. E. Co. (Single & Three Bell, etc.), 211 Race, Phila., Pa.

LUNKENHEIMER CO. (Single Bell, Three Whistles, etc.), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

NATIONAL GAUGE CO., 168 Sth, Brooklyn, N. Y. (See adv. index, end of book)

Powell, Wm. Co., Cincinnati, O.
 Queen City Brass & Iron Works (Single Bell), Cincinnati, O.

Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

STANDARD GAUGE MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Star Brass Mfg. Co., Boston, Mass.
 Thomas Brass & Iron Co., Waukegan, Ill.

Whistles (Conductors' & Starters')

Woodman, R. Railway Supply Co., 63 Oliver, Boston, Mass.

*Whistles (Electrically Operated)

LUNKENHEIMER CO., General Offices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

*Whistles for Fog, Factory & Fire Signals

(See also Sirens, Steam)

BROWN, A. & F. CO., 25 Dey, New York. Works, Elizabethport, N. J. (See adv. index, end of book)

*Whistles (Low Pressure)

LUNKENHEIMER CO., General Offices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

Whistles (Steam)

American Steam Gauge & Valve Mfg. Co., 203 Camden, Boston, Mass.
 Ashton Valve Co., 271 Franklin, Boston, Mass.
 Belfield, H. & Co., 435 N Broad, Phila., Pa.
 Buckeye Iron & Brass Works, Dayton, O.
 Central Brass Works, Cincinnati, O.
 Crane Co. (Est. 1855), 519 S Canal, Chicago, Ill. (See adv. index & branch offices, end of book)
 Crane Valve Co., Bridgeport, Conn.
CROSBY STEAM GAGE & VALVE CO., 95 Oliver, Boston, Mass., & 16 Dey, New York. (See adv. index & branch offices, end of book)
 Detroit Shipbuilding Co. (Brass Dept.), Detroit, Mich.

Eastwood Wire Mfg. Co. ("Eastwood" Plain & Single Bell), Belleville, N. J.

Farnan Brass Works, Cleveland, O.

Garratt, W. T. & Co., San Francisco, Cal.

Haydenville Co., Haydenville, Mass.

Hays Mfg. Co., Erie, Pa.

Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.

Kelly & Jones Co., 135 Water, Pittsburg, Pa.

Lonergan, J. E. & Co., 211 Race, Phila., Pa.

LUNKENHEIMER CO., General Offices, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)

McNab & Harlin Mfg. Co., 56 John, New York

NATIONAL GAUGE CO., 168 Sth, Brooklyn, N. Y. (See adv. index, end of book)

Nelson, Chas., 439 E 10th, New York

Ohio Brass Co., Mansfield, O.

Pittsburg Brass Mfg. Co., 107 Wood, Pittsburg, Pa.

Powell, Wm. Co., Cincinnati, O.

Queen City Brass & Iron Works, Springfield, Grov av & Garrard, Cincinnati, O.

Schaeffer & Budenberg Mfg. Co., 963 Kent av., Brooklyn, N. Y.

Sherwood Mfg. Co., Buffalo, N. Y.

Springfield Brass Co., Springfield, O.

STANDARD GAUGE MFG. CO., Foxboro, Mass. (See adv. index & branch offices, end of book)

Star Brass Mfg. Co., 108 Dedham, Boston, Mass.

Swift Lubricator Co., Elmira, N. Y.

Thomas Brass & Iron Co., Waukegan, Ill.

U. S. Gauge Co., 67 Wall, New York.

UNION WATER METER CO., Worcester, Mass. (See adv. index, end of book)

Walworth Mfg. Co., 132 Federal, Boston, Mass.

Williams, D. T. Valve Co., 410 E. 8th, Cincinnati, O.

White Lead Kegs (Steel)

American Can Co., 14th and 10th av., New York

White Metal

(See Castings, White Metal)

White Metal (Rolled Sheet)

Seymour Mfg. Co. (A Nickel Alloy Similar to German Silver), Seymour, Conn.

White & Red Lead Mfrs.

Acme White Lead & Color Works, Detroit, Mich.

Carter White Lead Co., W. 121st & S. 1st, Chicago, Ill.

Chadwick-Boston Lead Co. (Dry & in Oil), Boston, Mass.

Davis Lead Co. (White Lead Only), Park bldg, Pittsburg, Pa.

Detroit White Lead Works, Detroit, Mich.

Eagle White Lead Co., Cincinnati, O.

FRENCH, SAMUEL H. & CO. (Dealers & Grinders), 4th & Callowhill, Phila., Pa. (See adv. index, end of book)

Hammar Bros. White Lead Co., St. Louis, Mo.

Harrison Bros. & Co., 35th & Gray's Ferry rd, Phila., Pa.

Lewis, John T. & Bro. Co., 231 S Front, Phila., Pa.

Matheson Lead Co., 182 Front, New York

National Lead Co. (Atlantic Branch), 10 William, New York

National Lead & Oil Co. (Of Pennsylvania), 2d Nat'l Bank bldg, Pittsburg, Pa.

NEVIN, T. H. CO., North Side, Pittsburg, Pa. (See adv. index, end of book)

Picher Lead Co., Joplin, Mo.

Shoemaker, Robert & Co. ("Imperial" White Lead), 4th & Race, Phila., Pa.

Tatham & Bros., 223 S 5th, Phila., Pa., & 8 Beekman, New York

Wetherill & Bro., 126 S 30th, Phila., Pa.

*Whitewash (Antiseptic)

GROSCHÉ, BRUNO & CO., 13 Jones Lane, New York. (See adv. index, end of book)

Whiting Mfrs.

American Whiting & Putty Mfg. Co., 2 Reitor, New York

Dunham, Thos. C., 68 Murray, New York

Excelsior Whiting Works (E. T. Graft Prop.), York & Almond, Phila., Pa.

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Fox, M. E. & Co., 462 E 136th, New York
 Grote, Geo. W., & Co., 432 E 102d, New York, East St. Louis, Ill.
 Hammlil & Gillespie, 240 Front, New York.
 Harshaw, Fuller & Goodwin Co., Cleveland, O.
 Higginson Mfg. Co., Newburgh, N. Y.
 Kelley Bros. & Spielman (Inc.), Swanson & Moore, Phila., Pa.
 Knappmaun, Wm. & Co., 31 Nassau, New York
 Manufacturers' Whiting Co., Phila. Bourse, Phila., Pa.
 National Whiting Co., 22 5th av., Chicago, Ill.
 Nevins, Sam'l Co., 109 S. 2nd., Phila., Pa.
 Newbold Whiting Co., Westville, N. J.
 Philadelphia Whiting Works, 2609 E. York, Phila., Pa.
 Phillips, Jno. B. Mfg. Co., 78 9th, Brooklyn, N. Y.
 Southwark Mfg. Co., Mifflin & Swanson, Phila., Pa.
 Taintor, H. F. Mfg. Co., 2 Rector, New York.
 Tremont Paint & Varnish Co., Boston, Mass.
 Wetherill, Geo. D. & Co., Phila., Pa.
 Whittaker, W. H. (Importer), 245 Front, New York.

*Wickets

BOLLES, J. E. IRON & WIRE
 Works, 4th av & Porter, Detroit, Mich.
 (See adv. index, end of book)
CINCINNATI MFG. CO., 1243 W 6th,
 Cincinnati, O. (See adv. index, end of book)
COLUMBIA IRON & WIRE WORKS
 Co., Canton, O. (See adv. index, end of book)
ESTEY BROS. CO., Liberty & Green-
 wich, New York. (See adv. index, end of book)
HANKE IRON & WIRE WORKS,
 1234 Fillmore, Chicago, Ill. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO., Ham-
 ilton, O. (See adv. index, end of book)
SCHREIBER, L. & SONS CO., 8th &
 Eggleston av., Cincinnati, O., & 1133 B'way, New York. (See adv. index, end of book)
SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)
SOMMERVILLE IRON & BRONZE
 Co., 5637-5649 Butler, Pittsburgh, Pa. (See adv. index, end of book)
STANDARD CO. (Ornamental), Rail-
 way Exchange Bldg., Chicago, Ill. (See adv. index, end of book)
TAYLOR & DEAN, Penn av. & 25th,
 Pittsburgh, Pa. (See adv. index, end of book)
TYLER, W. S. CO. (Ornamental),
 Cleveland, O., & 11 B'way, New York. (See adv. index & branch offices, end of book)
WRIGHT WIRE CO. (All Metals &
 Finishes), Worcester, Mass. (See adv. index & branch offices, end of book)

Wicks (Lamp, Etc.)

Ansonia, O. & C. Co. (Lamp), Ansonia, Conn.
 Bowden, Anthony, Cedar Grove, N. J.
 Cleveland Mill & Power Co., Lawndale, N. C.
 Collins, G. S. (Lamp, Stove, Candle, etc.), Central Village, Conn.
 Consolidated Cotton Duck Co. (& Stove, etc.), Baltimore, Md.
 Devon Mills (George S. Browne, Prop.), Providence, R. I.
 Estes Mills (Inc.), Fall River, Mass.
 Fletcher Mfg. Co. (Lamp, Cotton Ball, Miners', Stove, etc.), 72 Leonard, New York. Factory, Providence, R. I.
 Hooper, Wm. E. & Sons (Lamp, Cotton Ball, Candle, etc.), Baltimore, Md.
 January & Wood Co. (Cotton Wicks, etc.), Maysville, Ky.
 Lees Mfg. Co. (Lamp, Candle, Miners', Cotton Ball, etc.), Westport, Conn.
 McClintock & Irvine Co. (Torch), Neville & P. R. R., Pittsburgh, Pa.
 Massasolt Mfg. Co., Fall River, Mass.
 New Jersey Wick Co. (Lamp, Stove, etc.), Newark, N. J.
 Rochard, F. J. (Torch Wicks, Etc.), South Hadley Falls, Mass.
 Westport Mfg. Co., Fall River, Mass.

*Willson Office & Loft Directories (Changeable)

TABLET & TICKET CO., 70-86 W.
 Jackson bou., Chicago, Ill., 381 B'way, New York. (See adv. index & branch offices, end of book)

*Winches (Cable)

ANDERSON FORGE & MACHINE CO.,
 271 Guoin, Detroit, Mich. (See adv. index, end of book)

Winches (Electric)

LIDGERWOOD MFG. CO. (Steam &
 Electric), 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Sprague Electric Co. (For Haulage Purposes), 527 W 34th, New York

Winches & Windlasses

Acme Road Machinery Co., Frankfort, N. Y.
ALLIS-CHALMERS CO., Milwaukee, Wis.
 (See adv. index & branch offices, end of book)
AMERICAN HOIST & DERRICK CO.,
 St. Paul, Minn. (See adv. index & branch offices, end of book)
 American Ship Windlass Co. (Hand, Steam & Electric Gypsey & Yacht Windlasses), Providence, R. I.
 Boggs & Clarke (Changeable Adjustable Winches), Syracuse, N. Y.
 Box, Alfred & Co. (Ship & Yacht Windlasses), 813 N Front, Phila., Pa.
BROWN HOISTING MACHINERY CO.
 (Winches Only), St. Clair, N. E., Cleveland, O., & 50 Church, New York (See adv. index & branch offices, end of book)
CARLIN'S, THOS. & SONS CO., 1610
 River av. North Side, Pittsburgh, Pa. (See adv. index, end of book)
CARPENTER, GEO. B. & CO., 202 S
 Water, Chicago, Ill. (See adv. index, end of book)
 Chase Machine Co. (Double Drum Hoisting Winches), Cleveland, O.
 Contractors' Plant Mfg. Co., 129 Erie, Buffalo, N. Y.
 Dake Engine Co. (Steam Windlasses), Grand Haven, Mich.
DOBBIE FOUNDRY & MACHINE CO.,
 Niagara Falls, N. Y. (See adv. index & branch offices, end of book)
 Edson Mfg. Co., 257 Atlantic av., Boston, Mass.
 Harvey, H. H. (For Quarries), 608 Atlantic av., Boston, Mass.
 Helmick Foundry & Machine Co., Fairmont, W. Va.
 Hoist Co., 20 S William, New York
 Hyde Windlass Co., Bath, Me.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.) (Cargo Winches), 157 Cham-
 bers, New York. (See adv. index, end of book)

Klemm, E. R., 103 W Monroe, Chicago, Ill.
 Laughlin, Thos. Co. (Windlasses Only), Portland, Me.
LIDGERWOOD MFG. CO. (Steam &
 Electric), 96 Liberty, New York, & Old Colony bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Marine Hardware Co. (Hand), Peabody, Mass.
 Marine Mfg. Supply Co., 158 South, New York.
 Denver, Colo. & 42 B'way, New York.
 Pollock, Alex. Co., 203 West, New York.
 Round, D. & Son, 2287 B'way, Cleveland, O.
 Scaife Foundry & Machine Co., Pittsburgh, Pa.
 South Baltimore Steel Car & Foundry Co. ("Derrick"), Baltimore, Md.
SPEIDEL, JOHN G., Reading, Pa.
 (See adv. index, end of book)
 Terry & Trench Co. (Inc.), (Wood frame Winches), Lexington av & 131st, New York
 Textile Finishing Machinery Co. (Steam Steerer, etc.), Providence, R. I.
 Union Elevator & Machine Co. (Windlasses Only), 144 Ontario, Chicago, Ill.
 Vulcan Iron Works, Chicago, Ill.
WALSH'S SONS & CO., Newark, N. J.
 (See adv. index, end of book)
 Wilcox, Crittenden & Co. (Windlasses), Middletown, Conn.
 Yale & Towne Mfg. Co. (Winches Only), 9 Murray, New York

Wind Shields (Automobile)

Adapt Machinery Co., The, 1620-1630 Wabash av., Chicago, Ill.
 Amesbury Brass & Foundry Co., Amesbury, Mass.
 Anderson, F. W. & Co. ("Quality"), Brown & Uber, Phila., Pa.
 Auto Accessories Mfg. Co., Detroit, Mich.
 Auto Blacksmith Co., 1351 Michigan av., Chicago, Ill.
 Automobile Equipment Co., Detroit, Mich.
 Automobile Specialty Co. ("McGiffin"), E E, Pittsburgh, Pa.

B. & B. Mfg. Co. ("Superior"), Cleveland, O.
 Ball-Printze Co. ("Avalon"), Newark, O.
 Banker Bros. ("Banker"), Pittsburgh, Pa.
 Barndt-Johnston Auto Supply Co., Columbus, O.
 Baum's Brass & Model Works, S. Minneapolis, Minn.
 Bi-Motor Equipment Co. ("Portland" & "Lincoln"), Boston, Mass.
 Blasier, M. E. Mfg. Co., Utica, N. Y.
 Boesch Lamp Co., San Francisco, Cal.
 Bridgeport Vehicle Co. ("Miller"), Bridgeport, Conn.
 Broc Carriage & Wagon Co., N. E. Cleveland, O.
 Buffalo Auto Body & Trimming Co., Buffalo, Buob & Scheu, Cincinnati, O.
BURROWES, E. T. CO. ("Burrowes"),
 Portland, Me. (See adv. index, end of book)
 Capital Auto Company, Indianapolis, Ind.
 Cartier-Chapman & Co. ("Breeze"), Ludington, Mich.
 Chicago Coach & Carriage Co., 1223-31 Michigan av., Chicago, Ill.
 Chicago Wind Shield Co. ("Dixie," "Perretz," "Telescope," "Oriole," & "Zig Zag"), 235 Johnson, Chicago, Ill.
 Coleman, J. C., Detroit, Mich.
 Collins, G. A. & Son ("Collins"), Akron, O.
 Denniston, E. E., Buffalo, N. Y.
 Detroit Auto-Shield Co. ("Wheeler"), Detroit, Mich.
 Duane, W. J. & Co., 304 W 54th, New York
 Edwards, O. M. Co. ("Paownye"), Syracuse, N. Y.
 English & Mersick Co. ("E. M. Tabor"), New Haven, Conn.
 Fellwock Roll & Panel Co. ("Pectect"), Evansville, Ind.
 Fickling & Co., 304-306 W 49th, New York
 Fincksen & Kropf Mfg. Co., 21st & Rockwell, Chicago, Ill.
 Ford Auto Equipment Co. (Inc.), 1426 Michigan av., Chicago, Ill.
 Glibson Automobile Co. ("Imperial"), Indianapolis, Ind.
 Graves & Congdon Co., Amesbury, Mass.
 Guarantee Tire & Bi. Co. ("Long Distance"), Indianapolis, Ind.
 Hillman Auto Supply Mfg. Co. ("Hillman"), Boston, Mass.
 Hill Mfg. Co. ("Hill"), Buffalo, N. Y.
 Holcker-Elberg Carriage & Rubber Co. ("Holcker-Elberg"), Kansas City, Mo.
 Ideal Wind Shield Co., 1845-7 B'way, New York.
 Irvin Manufacturing Co., Indianapolis, Ind.
 Jacobson Bros. ("Jacobson"), Newark, N. J.
 Jenkins Specialty Mfg. Co., Sumter, S. C.
 Jonah & George, Merrimac, Mass.
 Kimball, C. P. & Co., 315-317 Michigan av., Chicago, Ill.
 King Top Mfg. Co. ("King"), Dayton, O.
 Knight, F. H. ("Knight"), 1219-21 Michigan av., Chicago, Ill.
 Knight, H. C. & Co., 1725 Michigan av., Chicago, Ill.
 Limousine-Carriage Mfg. Co. ("Volz," "Schildback" & "Beecher"), 3515 Michigan av., Chicago, Ill.
 London Auto Supply Co. ("Lasco," "London"), 2540-S Wabash av., Chicago, Ill.
 Longdin-Bruger Co., Fond du Lac, Wis.
 Loring, J. W. & Son ("Loring"), Worcester, Mass.
 Lyons, Hugh & Co. ("Lyons"), Lansing, Mich.
 Manhattan Auto Top & Body Co., 249 W. 64th, New York.
 Mayer Bros. Electric Co. ("Simplicity"), Detroit, Mich.
 Metal Stamping Co., Hubert, West & Washington, New York.
 Meyer, Henry E. 17 Duffield (Auto & Motor Boat), Detroit, Mich.
 Meyer, Morris F., Port Huron, Mich.
 Mezger, C. A. (Inc.) ("Automatic"), 1627-29 B'way, New York.
 Michigan Top Co., Detroit, Mich.
 Milbradt Mfg. Co. ("Milbradt"), St. Louis, Mo.
 Milwood Mfg. Co. ("Milwood") Auto & Motor Boat, 55th & South Park av., Chicago, Ill.
 Motor Specialty Co. ("Bresnahan"), Detroit, Mich.
 National Auto Top Co. ("National"), 1904 B'way, New York.
 New England Auto Top Co., W 54th st & B'way, New York.
 Nichols, D. P. & Co., Boston, Mass.
 Nonpareil Brass Co., Providence, R. I.
 Parsons-Curtis Top Co., 70 W Jackson bou., Chicago, Ill.
 Paterson Vehicle Co., Paterson, N. J.
 Pence Automobile Co. ("Pence"), Minneapolis, Minn.
 Polson, W. F., Buffalo, N. Y.
 Quinby, J. M. & Co., Newark, N. J.

Racine Buggy Top Co. ("The Racine"), Racine, Wis.
 Racine Mfg. Company, Racine, Wis.
 Rands Mfg. Company, Detroit, Mich.
 Reading Metal Body Co., Fleetwood, Pa.
 Riley Bros. ("Riley"), Bridgeton, N. J.
 Ross & Browne, 6127 Cottage Grove av., Chicago, Ill.
 Russell, H. J. ("Angle"), Worcester, Mass.
 Schurmeier Wagon Co., Minneapolis, Minn.
 Skinner & Skinner, Chicago, Ill.
 Smith, Jos. N. & Co. ("Ackerman"), Detroit, Mich.
 Smith, H. Machine Co., Paterson, N. J.
 Sprague Umbrella Co. ("Sprague" & "Common Sense"), Norwalk, O.
 Springfield Metal Body Co., Springfield, Mass.
 Troy Carriage Sunshade Co., Troy, O.
 Twentieth Century Motor Car Co. ("Williams"), South Bend, Ind.
 Universal Wind Shield Co. ("Universal"), 147 S. Clinton, Chicago, Ill.
 Vanguard Mfg. Co. ("Vanguard"), Joliet, Ill.
 Wenger Carriage Works, Paradise, Pa.
 Westchester Appliance Co. ("Westchester"), 13-15 Canal pl., Bronx, N. Y.
 Western Mechanical Works ("Western Universal"), Los Angeles, Cal.
 Whiting, Dr. T. Henry, Rockford, Ill.

Winders (Magnet)

Anderson, Homer, Peekskill, N. Y.
 Appleton Electric Co., 224 Washington, Chicago, Ill.
 Belden Mfg. Co., 194 Michigan, Chicago, Ill.
 Harvard Electric Co., 60 W Van Buren, Chicago, Ill.
 Peirce Specialty Co., Elkhart, Ind.

Windlasses

(See Winches & Windlasses)

Windlasses (Arc Lamp)

Ajax Line Material Co., 12 S Jackson, Chicago, Ill.
 Brady, T. H., New Britain, Conn.
 Commercial Electrical Supply Co. ("Eddy"), St. Louis, Mo.
 Cutter, Geo. Co., South Bend, Ind.
 Fletcher Mfg. Co., Dayton, O.
 Morris, Elmer P. Co., 90 West, New York
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Windmills

Aermotor Co. ("Aermotor"), Campbell av, nr 12th, Chicago, Ill.
 Anderson Malleable Iron & Mfg. Co. Works, Anderson, Ind.
 Althouse, Wheeler & Co. (Wood or Steel Wheel Pumping; also Geared Wood Wheel), Wau Appleton Mfg. Co., Batavia, Ill.
 Bagley Co., Ellicott sq., Buffalo, N. Y.
BALTIMORE COOPERAGE CO., The., c Hanover & Creek, Baltimore, Md. (See adv. index, end of book)
 Baker Mfg. Co. ("Monitor"), Evansville, Wis.
 Banks, T. & Son, Burlington, Wis.
 Batavia Wind Mill Co. (Wood), Batavia, Ill.
 Beckman Bros., Des Moines, Ia.
 Benjamin, O. P. Mfg. Co., Indianapolis, Ind.
 Butler Co. (Steel & Wood), Butler, Ind.
CALDWELL, W. E. CO., Louisville, Ky. (See adv. index, end of book)
 California Windmill Co., Somonauk, Ill.
 Carroll Iron Works (C. L. Bowes, Prop.), 719 Carroll av, Chicago, Ill.
 Challenge Co., Batavia, Ill.
 Chandler Pump Co., Cedar Rapids, Ia.
 Church, Stephen B., Seymour, Conn., & High Street, Boston, Mass.
 Clay Center Windmill & Fdry. Co., Clay center, Kan.
 Colton, G. D. & Co., Galesburg, Ill.
 Corcoran, A. J., Inc., 11 John, New York.
 Works: Jersey City, N. J.

Deere Implement Co., 209 Market, San Francisco, Cal.
 Dempster Mfg. Co., Des Moines, Ia.
 Dempster Mill Mfg. Co., Beatrice, Neb.
 Duplex Mfg. Co., Superior, Wis.
 Elgin Wind Power & Pump Co., Elgin, Ill.
 Enterprise Wind Mill Co., Sandwich, Ill.
FAIRBANKS, MORSE & CO. ("Eclipse" Fairbank's), Wabash & Eldredge pl. Chicago, Ill. (See adv. index & branch offices end of book)
 Fairbury Wind Mill Co., Fairbury, Neb.
 Ferguson Wind Mill & Pump Co., Waterloo, Ia.
 Fleming & Sons, Portland, Ind.
 Flint & Walling Mfg. Co. (Star), Kendallville, Ind.
 Chicago, Ill.
 Fort Wayne Windmill Co., Fort Wayne, Ind.
 Freeland Mfg. Co., Niles, Mich.
 Freeport Windmill & Gas Engine Co., Freeport, Ill.
 Freeman, S. & Sons Mfg. Co., Racine, Wis.
 Genoa Mfg. Co., Genoa, O.
 Great Northern Mfg. & Supply Co., Atchison, Kan.
 Heller, Aller & Co., Napoleon, O.
 Horicon Wind Mill Co. (Steel), Horicon, Wis.
 Howe Engine Co., Indianapolis, Ind.
 Iowa Windmill & Pump Co., Cedar Rapids, Ia.
 Jackson, Byron Machine Works, 411 Market, San Francisco, Cal.
KEWANEE WATER SUPPLY CO. (Kewanee), Kewanee, Ill. (See adv. index, end of book)
 Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
 Kregel, G. F., Nebraska City, Neb.
 Lamb & Co. ("Zenith"), Freeport, Ill.
 Leach Windmill Co., Joliet, Ill.
 McDaniel & Son, Litchfield, Ill.
 Marseilles Mfg. Co., Marseilles, Ill.
 Mast, Foos & Co. ("Imperial" Iron Turbine, etc.), Springfield, O.
 Meud's Windmill & Pump Co., Lansing, Mich.
 May Bros., Galesburg, Ill.
 Medina Mfg. Co., Medina, O.
 Mt. Pulaski Windmill Co., Mount Pulaski, Ill.
 National Engineering Co., Saginaw, Mich.
 New Doty Mfg. Co., Janesville, Wis.
 Northwestern Wind Engine Co., 110 3d av Minneapolis, Minn.
 Pacific Pump & Windmill Co., San Francisco, Cal., & Santa Clara, Cal.
 Perkins Windmill Co., Mishawaka, Ind.
 Peters Pump Co., Kewanee, Ill.
 Phelps, I. B., Wahoo, Neb.
 Phelps & Bigelow Windmill Co. ("IXL" Steel), Kalamazoo, Mich.
 Red Cross Mfg. Co., Bluffton, Ind.
 Reese, Jno., Florin, Cal.
 Rose, F. M. & Son (Steel Star), 222 San Pablo av, Oakland, Cal.
 Ross Supply Co. ("Rex"), Greenville, O.
 Schlichter, E. F., 1910 Market, Phila., Pa.
 Schmidt, Geo., East Williston, N. Y.
 Sharp Mfg. Co., Albert Lea, Minn.
 Sharples Co., Chicago, Ill.
 Smith & Pomeroy, Wind Mill Co. ("Eureka"), Kalamazoo, Mich.
 Southern Rock Island Plow Co., Dallas, Tex.
 Standard Windmill & Mfg. Co., Galesburg, Mich.
 Stover Mfg Co. (Iron, etc.), Freeport, Ill.
 Superior Co., Streator, Ill.
 Shurtleff Co., Marengo, Ill.
 Stehn Mfg., Sheboygan, Wis.
 Sydnor Pump & Well Co., Richmond, Va.
 Tanner, D. F., Holland, N. Y.
 Temple Pump Co. ("Diamond"), 15th pl, Chicago, Ill.
 United Pump & Power Co. (Steel), Old Colony bldg., Chicago, Ill.
 U. S. Supply Co., Omaha, Neb.
 U. S. Water & Steam Supply Co., Kansas City, Mo.
 U. S. Wind Engine & Pump Co., Batavia, Ill.
 Vall & Smith, Weston, Mich.
 Wallace, Amos, Marengo, Ill.
 Walterscheid Machinery & Supply Co., Wichita, Kan.

Waterloo Pump Co., Waterloo, Iowa.
 Wells, H. B. & Son, Ithica, Mich.
 Winship Mfg. Co., Racine, Wis.
 Winter, F. W. & Co., Faribault, Minn.
 Wolcott Windmill Co., Saginaw, Mich.
 Woodin & Little, 312 Market, San Francisco, Cal.
 Woodmanse Mfg. Co. (Steel, Wooden & Power, etc.), Freeport, Ill.
 Wright, Charles A., Atchison, Kan.
 Zimmerman Mfg. Co., Auburn, Ind.

Window Blind Adjusters

Columbian Hardware Co., Coe & Hamilton, Cleveland, O.
 Boston Pressed Metal Co. ("Osborne"), Worcester, Mass.
 New York Blind & Transom Adjuster Co., 71 B'way, New York.
 Russell & Erwin Mfg. Co., New Britain, Conn.
 & 96 Lafayette, New York.
 Wire Goods Co., Worcester, Mass.

Window Cleaning Appliances & Guards

Orr & Locket Hdw. Co. ("Simpkins" Safety Belt & "Skidmore's" Adjustable Balcony), Randolph, Chicago, Ill.
 Perfect Safety Window Guard, Flatiron bldg., New York
 Smith, F. H. Mfg. Co., 52 St. John's Court, Chicago, Ill.

Window Display Fixtures

American Brass Fixture Works (Brass & Nickel Plated), 66 Greenpoint av, Brooklyn, N. Y.
 Barlow Mfg. Co. (Wax Figures, Show Cases, Papier Mache Forms), Holyoke, Mass.
 Belle-Hickey Mfg. Co., St. Louis, Mo.
 Buckingham Bros. Co. (Skirt Racks, etc.), 177 Adams, Chicago, Ill.
 Burgess, E. A. (Est. of), New Haven, Conn.
 Faries Mfg. Co. ("Eiffel Tower," Revolving), Decatur, Ill.
 Frankel Display Fixture Co., 177 Hudson, New York
 Gas Fixture & Brass Co., Cleveland, O.
 Heilmann, Morris A. Mfg. Co., St. Louis, Mo.
 Jandorf Window Attraction Co. (Mechanical Moving Attractions), 46 Great Jones, New York
 Judd, H. L. Co., 87 Chambers, New York
 Lyons, Hugh & Co., Lansing, Mich.
 McKenna Bros. Brass Co. (Forms, Wax Figures, Pedestals, Stands, Card Frames, etc.), Pittsburg, Pa.
 Multiplex Display Fixture Co., St. Louis, Mo.
 Newman Mfg. Co., 717 Sycamore, Cincinnati, O.
 Norwich Nickel & Brass Co. (Also Wax Figures), Norwich, Conn.
 Schilling, Chas. E. (Metal Scarf Fixtures), Los Angeles, Cal.
 Standard Mfg. Co., Xenia, O.
 Turner Fixture Co., Oakwood, Mo.
 Weston Paper & Mfg. Co. (Also Store), Dayton, O.
 Woodcraft Co. (Window Shelves, Wood Fixtures, etc.), Monadnock blk, Chicago, Ill.

Window Frame & Sash (Metallic)

(See also Windows, Fire-Proof, Wire Glass)

AMERICAN CONCRETE CO. (Mfrs.) Agents), 80 William, New York. (See adv. index, end of book)
AMERICAN METAL DOOR CO. (Holl), Jamestown, N. Y. (See adv. index, end of book)
 American Sheet Metal Works ("Mudd's"), New Orleans, La.
BADGER, E. B. & SONS CO., 75 Pitts, Boston, Mass. (See adv. index, end of book)
BERGER MFG. CO., THE, Canton, O. (See adv. index & branch offices, end of book)
 Beseman & Bostwick, Hartford, Conn.

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BURTON, W. J. CO., 161 W. Con-
gress, Detroit, Mich. (See adv. index, end
 of book)

CANTON MFG. CO., Canton, O. (See
 adv. index, end of book)

CLASON ARCHITECTURAL METAL
Works, 428 Kinsley av., Providence, R. I.
 (See adv. index, end of book)
 Consolidated Sheet Metal Works, 661 Hubbard,
 Milwaukee, Wis.

Cushing, Daniel & Co., Lowell, Mass.

DAHLSTROM METALLIC DOOR CO.,
 Jamestown, N. Y., & 299 B'way, New York.
 (See adv. index & branch offices, end of book)
 Eagle Metal Works Co., St. Louis, Mo.

EDWARDS MFG. CO., 545-565 Eg-
gleston av., Cincinnati, O. (See adv. index,
 Eller Mfg. Co., Canton, O. end of book)
 Feldman & Sommer, San Francisco, Cal.

GENERAL FIREPROOFING CO., Youngs-
town, O. (See adv. index & branch
 offices, end of book)

Harris, Clayton, Providence, R. I.
 Hayes, Geo. Co., 71 8th av., New York.
 Farwell Cornice Co., 1304 Southport av., Chica-
 go, Ill.

Hecla Iron Works, 118 N 11th, Brooklyn, N. Y.
 Herrmann & Grace, 671 Bergen, Brooklyn, N. Y.
 Hicks, S. D. & Sons, 9 Bowker, Boston, Mass.
 Howell & Lawrence (Metal Covered), 404 E.
 93rd, New York.

Illinois Roofing & Cornice Co., 329 W. Kin-
 zie, Chicago, Ill.

Keigbley, S. Metal Ceiling & Mfg. Co. ("Phoe-
 nix"), 824 Locust, Pittsburg, Pa.

Klauser Mfg. Co., Dubuque, Ia.
 Kirk, W. P. Co., Bridgeport, Conn.

Knisely Bros., 28th pl & 5th av., Chicago, Ill.

KNISELY, H. C. CO., 273 S Canal,
Chicago, Ill. (See adv. index, end of
 book)

Lee, Thos. (Automatic Closing & Sliding Sash),
 Cincinnati, O.

Leonard Sheet Metal Works (Inc.) ("Leon-
 ard" Combined Sliding & Revolving Sashes),
 219 Grand, Hoboken, N. J.

Lieberman, M. F. Sheet Metal & Roofing Co.
 ("Overly" Patent), Economy, Pa.

Lupton's, David Sons Co., Allegheny av &
 Tulip, Pblia., Pa.

McFARLAND, J. C. & CO., 27th & 5th
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New York. (See adv. index, end of book)

Maekwirth Bros. Co., 201 Oak, Buffalo, N. Y.

Meade Roofing Co., Woodland ave. & 46th,
 Phila., Pa.

Mesker & Bro., 421 S. 6th, St. Louis, Mo.

Metallic Mfg. Co., 110 Erie, Camden, N. J.

Miller, J. A. & Bro., 136 S Clinton, Chicago, Ill.

MULLINS, W. H., CO., 341 Franklin,
Salem, O. (See adv. index, end of book)

National Skylight & Ventilator Co., Rochester,
 N. Y.

Newark Cornice & Skylight Works (Automatic),
 Nichols, Fred., Oakland, Cal. Newark, N. J.

Ohio Roofing Co., Cleveland, O.

Perkinson & Brown, 113 N. Lincoln, Chicago,
 Ill.

Powers & Boyd Cornice & Roofing Co., St.
 Louis, Mo.

PRUDEN, C. D. CO. (Metal), Warner,
Bayard & Dock, Baltimore, Md. (See adv.
 index, end of book)

RAPP, JNO. W. CO. (Metal Covered,
All Kinds), Gen'l Office & Works, College
Point, New York & Sales Office, 4 Madi-
son av., New York (See adv. index, end
 of book)

Rasner & Dinger Co., Pittsburg, Pa.

Rendle, Artbur E., 18 W. 34th, New York

Riester & Thesmacher Co. ("R. & T."), 1522
 W. 25th, Cleveland, O.

Ritzler, J. A. Cornice & Ornament Co., Kan-
 sas City, Mo.

Rudolph & Son Co., Cleveland, O.

Rulofson Metal Window Works, San Fran-
 cisco, Cal.

Ruth, J. F., Cornice Works, St. Louis, Mo.

Schoedinger, F. O., 146 3rd, N. Columbus, O.

Scholes Bros., 1241 Rebecca, N S, Pittsburg, Pa.

St. Paul Roofing, Cornice & Ornament Co.
 ("Pruden"), St. Paul, Minn.

Sykes Steel Roofing Co., 112 W 19th pl, Chi-
 cago, Ill.

Thorn, J. S. Co., 20th & Allegheny av., Phila.,
 Pa.

Twentieth Century Window Co., 225 5th av., New
 York

VALLEY CORNICE & SLATE CO.,
Ltd., 314-318 N. Hamilton, Saginaw, W.
S., Mich. (See adv. index, end of book)

Van Noorden, E. Co., Boston, Mass.

VOIGTMANN & CO., 42-54 E. Erie,
Chicago, Ill.; 430 W. 14th & 427 W. 13th,
New York. (See adv. index, end of
 book)

Von der Au & Cluss Mfg. Co., 2404 S. Jefferson
 av., St. Louis, Mo.

Weis, Henry Cornice Co., Kansas City, Mo.

Weyand, Hy. Co. (Inc.), Waterbury, Conn.

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
 index, end of book)

Wills Mfg. Co., Galesburg, Ill.

Witt Cornice Co., 8th & B'way, Cincinnati, O.

Wulff, W. C. & Co., 603 E. Jeff'n, Louisville,
 Ky.

Zahner Mfg. Co., Kansas City, Mo.

Window Frame & Sash (Wrought
Steel)

Detroit Steel Products Co. ("Fenestra"), E.
 Grand Blvd. & Chene, Detroit, Mich.

Mesker, Geo. L. & Co., Evansville, Ind.

SCHREIBER, L. & SONS CO., Cin-
cinnati, O. (See adv. index & branch
 offices, end of book)

Twentieth Century Window Co., 225 5th av.,
 New York

VAN DORN IRON WORKS CO., 2685
N 79th, Cleveland, O. (See adv. index, end
 of book)

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
 index, end of book)

Window Frames (Iron, for
Power Houses, Factories,
Etc.)

Detroit Steel Products Co., E. Grand Blvd. &
 Chene, Detroit, Mich.

Haase, G. J., 142 Centre, New York

WISCONSIN IRON & WIRE WORKS,
190 E. Water, Milwaukee, Wis. (See adv.
 index, end of book)

Window Guards

(See Wire Workers; also Wire Fences & Gates;
 Grilles, Wrought Iron; also Iron, Architect-
 ural & Ornamental; also Bank & Office
 Railings)

Window Guards (Bronze & Iron)

(Sec Bronze, Architectural, etc.; also Grilles
 Wrought Iron)

*Window Guards (Pitt-Bostwick Patents)

PITT, WM. R. COMPOSITE IRON
Works, (Folding & Stationary), 136-138 W
24th, New York. (See adv. index, end of
 book)

Window Lock & Adjuster

Rixon, Oscar C. Co. ("Sperry" Casement), 111
 W. Harrison, Chicago, Ill.

Window Locks (Ventilating)

Burdett-Rountree Mfg. Co. (By Compressed
 Air), 85 W. Jackson boul., Chicago, Ill.

& 147 W 26th, New York

Dearborn Hardware Mfg. Co., 1344 Carroll av.,
 Chicago, Ill.

DROUVE, G. CO. ("Lovell"), 40 Tulip,
Bridgeport, Conn. & 40 Dearborn, Chica-
go, Ill. (See adv. index, end of book)

*Window Opening & Locking Device ("Lovell")

DROUVE, G. CO., 40 Tulip, Bridge-
port, Conn. & 40 Dearborn, Chicago, Ill.
 (See adv. index, end of book)

Window Sash Holder (Auto- matic)

Automatic Sash Holder Co., 277 B'way, New
 York

Window Sash Pivots

Essig, Pivot Window Co. ("Essig"), 541 Wood,
 Pittsburg, Pa.

Steiner & Voegtly ("Giesey's"), Pittsburg, Pa.

TABOR SASH CO. ("Tabor"), 69 Polk,
Newark, N. J. (See adv. index & branch of-
 fices, end of book)

Window Sash (Reversible)

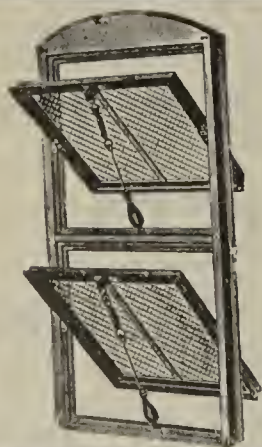
AMERICAN REVOLVING DOOR CO.
 ("Waterstaat"), 120 No. May, Chicago,
 Ill. (See adv. index, end of book)

BADGER, E. B. & SONS CO. (Auto-
matic Metallic Sash & Frame), 75 Pitts-
Boston, Mass. (See adv. index, end of
 book)

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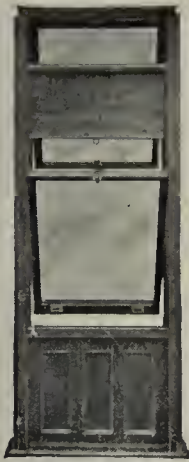
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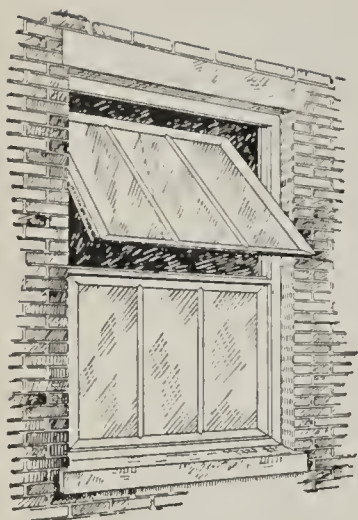
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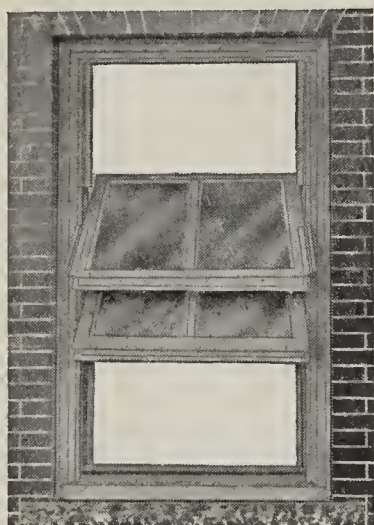
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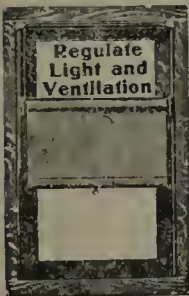
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 Pinney, Casse & Lackey Co., Jersey City, N. J.
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Byed, John, 1433 Catharine, Phila., Pa.
CANTON MFG. CO., Canton, O. (See adv. index, end of book)

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Hayes, Geo. Co., 71 8th av., New York.
 Keighley, S. Metal Ceiling & Mfg. Co., 824 Locust, Pittsburg, Pa.

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 Witt & Brown, 215 W 3d, Cincinnati, O.

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(See Doors & Windows, Kalameined)

Windows (Reversible)

(See Window Sash, Reversible)

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(See Storm Doors & Windows)

Windows (Universal, "Turnbull")

Turnbull Co. (Opens & Closes Like a Door), 263 La Salle, Chicago, Ill.

Windows & Sash (Air-Tight Bronze, Wood & Kalameined)

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JACKSON, WM. H. COMPANY, 29 E 17th (Union sq.), New York & 163 Michigan av., Chicago, Ill. (See adv. index, end of book)

Union Equipment & Bronze Co., 1901 Park av., New York

Wipers (Machine)

Houghton, E. F. & Co. ("Houghton's U. S."), 240 W Somerset, Phila., Pa.

Schlenmen, J. L. & Co. ("J. L. S. & Co."), Detroit, Mich.

STRONG MACHINERY & SUPPLY CO. ("Strong's" Silk & "Strong's" Tisafine), 48 Franklin, New York. (See adv. index, end of book)

Wiping Cloths

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Johnson, Wm. (Hedenberg Works) (Moleskin & Ticking), Newark, N. J.

Osborne, C. S. & Co. ("C. S. O. & Co."), Harrison, N. J.

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Habirshaw Wire Co., 253 B'way, New York

Indiana Rubber & Insulated Wire Co., Jonesboro, Ind.

KERITE INSULATED WIRE & CABLE CO. ("Kerite"), 30 Church, New York. (See adv. index, end of book)

OKONITE CO., Ltd. ("Candee"), 253 B'way, New York. (See adv. index, end of book)

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(See Wire Market)

Wire (Annunciator or Office)

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Collyer Insulated Wire Co., Pawtucket, R. I.
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
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Monarch Electric & Wire Co., 125 S Clinton, Chicago, Ill.
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Runzel-Lens Electric Mfg. Co., 97 S Clinton, Chicago, Ill.
Standard Underground Cable Co., Pittsburg, Pa.
Stromberg-Carlson Tel. Mfg. Co., Rochester, N. Y.
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Atlanta Steel Co. (Steel), Atlanta, Ga.
Belfont Iron Works Co., Ironton, O.
Cambria Steel Co. (Gautier Dept.), Johnstown, Pa.

Colorado Fuel & Iron Co. (Plain & Galvanized), Denver, Col.

Cyclone Woven Wire Fence Co., Cleveland, O.
Grand Crossing Tack Co., S Chicago av & 79th, Chicago, Ill.

Griswold Co., Sterling, Ill.
Halsh, Jacob Co., DeKalb, Ill.

Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York

Janesville Barb Wire Co., Janesville, Wis.

Kelly Neil & Iron Co., Ironton, O.

Kokomo Steel & Wire Co., Kokomo, Ind.

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Northwestern Barb Wire Co., Sterling, Ill.

Norton Iron Works (Inc.), Ashland, Ky.

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Waterbury Brass Co., Waterbury, Conn.

Wire (Brass & Copper)

American Brass Co., Waterbury, Conn.
American Electrical Works (Copper Wire & Cables for Electrical Use), Phillipsdale, R. I.

Ansonia Brass & Copper Co., Ansonia, Conn.

Barnes, Wallace Co. (Brass), Bristol, Conn.

Babbitt-Harris Co. (Fire Wires), Clayville, N. Y.

Benedict & Burnham Mfg. Co., Waterbury, Conn.

Bridgeport Brass Co., Bridgeport, Conn.

Bristol Brass Co. (Brass Only), Bristol, Conn.

Chase Rolling Mill Co., Waterbury, Conn.

Chicago Insulated Wire & Mfg. Co., 152 Lake, Chicago, Ill.

Coe Brass Mfg. Co., Torrington, Conn.

Collyer Insulated Wire Co., Pawtucket, R. I.

Detroit Copper & Brass Rolling Mills, Detroit, Mich.

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Eastwood Wire Mfg. Co., Belleville, N. J.

Hazard Mfg. Co. (Copper Only), Wilkes-Barre, Pa., & 50 Dey, New York

Hendricks Bros. (Copper Only), 49 Cliff, New York

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Manhattan Brass Co., 338 E 28th, New York

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Phillips Insulated Wire Co., Pawtucket, R. I.

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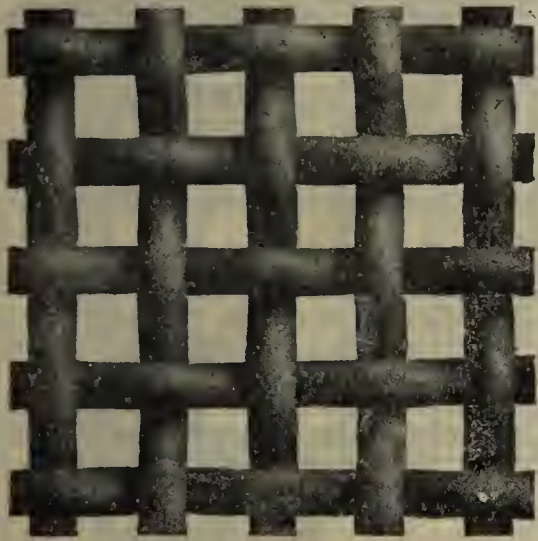
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Rome Brass & Copper Co., Rome, N. Y.
Scovill Mfg. Co. (Brass), Waterbury, Conn.
Seymour Mfg. Co., Seymour, Conn.
Spargo, Jas. A. Wire Co. (Copper Only, Fine
Sizes a Specialty), Rome, N. Y.
Standard Underground Cable Co. (Copper
for Electrical Use), Westinghouse bldg.,
Pittsburg, Pa.
Waclark Wire Co. (Copper Only), 49 Wall, New
York
Washburn Wire Co. (Electric Copper), Phillips-
dale, R. I., & 118th & Harlem River, N. Y.
Waterbury Brass Co., Waterbury, Conn.
Waterbury Rolling Mills (Inc.), Waterbury,
Conn.
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)

Wire (Bright Market)

(See Wire Market)

Wire (Bronze)

Detroit Copper & Brass Rolling Mills, Detroit,
Mich.
DRIVER-HARRIS WIRE CO. (Com-
mon, Golden & Antique), Harrison, N. J.
(See adv. index, end of book)
MICHIGAN WIRE CLOTH CO., 500
Howard, Detroit, Mich. (See adv. index,
end of book)

Wire (Broom & Brush)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)
Babbitt-Harris Co. (Brush Makers' Drawing
Wire, Brass, Copper, German Silver, Steel,
Scratch Brush Wire, etc.), Clavville, N. Y.
DRIVER-HARRIS WIRE CO. (Fine),
Harrison, N. J. (See adv. index, end of
book)
Independent Steel & Wire Co., Pittsburg, Pa.
Morgan Spring Co., Worcester, Mass.
New Haven Wire Mfg. Co., New Haven, Conn.
Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J.
& 30 Church, New York. (See adv. index,
end of book)
Washburn Wire Co., Phillipsdale, R. I., & 118th
& East River, New York
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices, end
of book)

*Wire (Brush Drawing)

DRIVER-HARRIS WIRE CO., Har-
rison, N. J. (See adv. index, end of book)

Wire (Cable)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)

TRENTON IRON CO., Trenton, N. J.
& 30 Church, New York. (See adv. index,
end of book)

Wire Cables (Copper)

American Electrical Works, Phillipsdale, R. I.,
& 26 Cortlandt, New York
AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)
BRODERICK & BASCOM ROPE CO.
(Also Steel & Iron), 809 N Main, St.
Louis, Mo. (See adv. index, end of book)
Collyer Insulated Wire Co., Pawtucket, R. I.
Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey
New York
Roebbling's, John A. Sons Co. (of New York),
Trenton, N. J., & 117 Liberty, New York.
Standard Underground Cable Co., Westinghouse
bldg, Pittsburg, Pa.

Wire (Car Seal)

Youngstown Sheet & Tube Co., Youngstown,
Ohio

Wire (Card)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)
Morgan Spring Co., Worcester, Mass.
Prentiss, Geo. W. & Co., Holyoke, Mass.
Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J.
& 30 Church, New York. (See adv. index,
end of book)
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices,
end of book)

Wire (Chain)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.
(See adv. index & branch offices, end of book)
Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J.
& 30 Church, New York. (See adv. index,
end of book)

Wire (Check Rower)

Chambers, Bering & Quinlan Co., Decatur, Ill.
Farles Mfg. Co., Decatur, Ill.
Youngstown Sheet & Tube Co., Youngstown, O.

Wire Cloth

American Wire Cloth Co., Harrison, N. J.
Barbee Wire & Iron Works, 44 Dearborn,
Chicago, Ill., & Lafayette, Ind.
Barnum, E. T. Wire & Iron Works, 82 Wash-
ington av., Detroit, Mich.
BIGELOW, CHENEY WIRE WORKS
(All Kinds), Springfield, Mass. (See adv.
index, end of book)

Brown & Sellers Co., Holyoke, Mass.
Buffalo Wire Works Co., 316 Terrace, Buffalo,
N. Y.
Cable, Wm. Excelsior Wire Mfg. Co., 43 Ful-
ton, New York.
Caire Justinian Co., San Francisco, Cal.
California Wire Cloth Co., San Francisco, Cal.
CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of book)
Clinton Wire Cloth Co. (Brass, Bronze & Cop-
per), Clinton, Mass.
COLUMBUS WIRE & IRON WORKS
Co., Columbus, O. (See adv. index, end of
book)
DARBY, EDW. & SONS CO., 239 Arch,
Phila., Pa. (See adv. index, end of book)
De Witt Wire Cloth Co., Market, Phila., Pa., &
299 B'way, New York
Dow Wire & Iron Works, Louisville, Ky.
Dufur & Co., 311 N. Howard, Baltimore, Md.
Eastwood Wire Mfg. Co. (Brass & Copper),
Belleville, N. Y.
ESTEY BROS. CO., Liberty & Green-
wich, New York. (See adv. index, end of
book)
ESTEY WIRE WORKS CO. (For All
Purposes), 59 Fulton, New York. (See adv.
index, end of book)
Federal Wire Cloth Co., Harrison, N. J.
Gilbert & Bennett Mfg. Co., Georgetown, Conn.
Globe Wire Co., Harrison, N. J.
Hanover Wire Cloth Co., Hanover, Pa.
HOWARD & MORSE, 45 Fulton, New
York. (See adv. facing first page of Index
of Contents)
IRVING MFG. & TOOL CO. (J. F. Mc-
Coy Co., Prop.) (Brass), 157 Chambers,
New York. (See adv. index, end of book)
Lasar-Letzig Mfg. Co., St. Louis, Mo.
Lindsay Wire Weaving Co., Collingwood, O.
Ludlow-Saylor Wire Co., St. Louis, Mo.
MERRITT & CO., 94 Arch, Camden,
N. J. (See adv. index, end of book)
MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)

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turer of any machine or
tool on which the patents
have expired, that is now
being exploited by many
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MICHIGAN WIRE CLOTH CO. (All Kinds), 500 Howard, Detroit, Mich. (See adv. index, end of book)

Morss & Whyte Co., 75 Cornhill, Boston, Mass.
National Mfg. Co., Worcester, Mass.
National Wire Cloth Co., Niles, Mich.
New Freedom Wire Cloth Co. (Screen), New Freedom, Pa.

New Jersey Wire Cloth Co., Trenton, N. J.
New York Wire Cloth Co., 102 Chambers, New York.

Niagara Wire Cloth Co. (Hardware Grades), Buffalo, N. Y.
Palmer, I. E. (Window Screen), Middletown, Conn.
Phoenix Wire Works, Detroit, Mich.
Reynolds Wire Co., Dixon, Ill.
Rice & Co., Lowell, Mass.

SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Standard Wire Cloth Co., Glen Rock, Pa.
Strawbridge & Chase Co. (Ltd.), 228 Arch, Phila., Pa.

Syracuse Wire Works, Syracuse, N. Y.
TAYLOR & DEAN, Penn. av. & 25th, Pittsburg, Pa. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O. & 11 B'way, New York. (See adv. index & branch offices, end of book)

Voss, Frederick, 617 Austin av., Chicago, Ill.
What Cheer Wire Works, Providence, R. I.

West Coast Wire & Iron Works, 17 Fremont, San Francisco, Cal.

White Brothers' Mfg. Co., Denver, Colo.
White Wire Works Co., Rochester, N. Y.
Whyte, Oliver & Co., 17 Cornhill, Boston, Mass.

Wickwire Bros. (Window Screen), Cortland, N. Y.
William, Geo. A. & Sons, 85 Fulton, New York.

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Wire Cloth (Brass & Bronze)

ESTEY WIRE WORKS, 59 Fulton, New York. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

Wire Cloth (Brass, Bronze & Copper)

American Wire Cloth Co., Newark, N. J.
Atlanta Wire & Iron Works Co., Atlanta, Ga.

BIGELOW, CHENEY WIRE WORKS, Springfield, Mass. (See adv. index, end of book)

DARBY, EDW. & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)

Clinton Wire Cloth Co., Clinton, Mass.
Eastwood Wire Mfg. Co., Belleville, N. J.

ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)

ESTEY WIRE WORKS, 59 Fulton, New York. (See adv. index, end of book)

Gilbert & Bennett Mfg. Co., Georgetown, Conn.
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)

HUNGERFORD, U. T. BRASS & COPPER CO., 497 Pearl, New York.
McCluskey, H. & T. & Sons (Fine), New Haven, Conn.

MERCHANT & EVANS CO., (Inc.), 517 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

MEYERS, FRED. J. MFG. CO., Hamilton, O. (See adv. index, end of book)

MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

New Jersey Wire Cloth Co., Trenton, N. J.
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)

Thistle Wire Works (Brass), Lee, Mass.
TYLER, W. S. CO., Cleveland, O. & 11 B'way, New York. (See adv. index & branch offices, end of book)

Wickwire Bros., Cortland, N. Y.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

*Wire Cloth (Window Screen)

CLINTON WIRE CLOTH CO., Clinton, Mass. (See adv. index & branch offices, end of book)

DARBY EDW. & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)

ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)

Hanover Wire Cloth Co., Hanover, Pa.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O. (See adv. index & branch offices, end of book)

Wire (Coiled Spring)

Carpenter Steel Co., Reading, Pa.
Eastwood Wire Mfg. Co. (Brass), Belleville, N. J.
Frost Wire Fence Co., Cleveland, O.
Kidd Bros. & Burgher Steel Wire Co. (Crucible, Needle, Awl, Spring, etc.), Alliquippa, Pa.

Kokomo Steel & Wire Co., Kokomo, Ind.
Morgan Spring Co., Worcester, Mass.
Newman, C. Wire Co., 143 Liberty, New York
Spencer Wire Co., Worcester, Mass.
Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York.

Wire (Cold Drawn Steel)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Igoe Bros., 69 Metropolitan av., Brooklyn, N. Y. & Newark, N. J.

Kidd Bros. & Burgher Steel Wire Co., Alliquippa, Pa.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

Washburn Wire Co., Phillipsdale, R. I. & 118th & E. R., New York.
Youngstown Sheet & Tube Co., Youngstown, O.

*Wire (Cold Rolled)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Wire (Copper)

(See Wire, Brass & Copper)

Wire (Copper Telephone)

American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York.

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Collyer Insulated Wire Co., Pawtucket, R. I.
KERITE INSULATED WIRE & CABLE CO. ("Kerite"), 30 Church, New York. (See adv. index, end of book)

Phillips Insulated Wire Co., Pawtucket, R. I.
Roebbing's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
Standard Underground Cable Co., Westinghouse bldg., Pittsburg, Pa.

Wire (Coppered)

American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York.

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Dewitt Wire Cloth Co., Philadelphia, Pa., & 299 B'way, New York

Igoe Bros., 69 Metropolitan av., Brooklyn, N. Y. & Newark, N. J.

Independent Steel & Wire Co., Pittsburg, Pa.
Morgan Spring Co., Worcester, Mass.
Prentiss, G. W. & Co., Holyoke, Mass.

Reading Screw Co., Norristown, Pa.
Roebbing's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.

Spencer Wire Co., Worcester, Mass.
Standard Underground Cable Co., Westinghouse bldg., Pittsburg, Pa.

Stewart Wire Co., Easton, Pa.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York.

Wickwire Bros., Cortland, N. Y.

WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Wire Cord

Spencer Wire Co., Worcester, Mass.
WRIGHT WIRE CO. (Picture), Worcester, Mass. (See adv. index & branch offices, end of book)

Youngstown Sheet & Tube Co., Youngstown, O.

*Wire (Crucible Cast Steel)

DRIVER-HARRIS WIRE CO., Harrison, N. J. (See adv. index, end of book)

*Wire Fabric Reinforcement

GENERAL FIREPROOFING CO., Youngstown, O. (See adv. index & branch offices, end of book)

Wire (Feeder)

American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Ansoula Electrical Co. (Electric Railway Wires & Cables), Ansonia, Conn.

Collyer Insulated Wire Co., Pawtucket, R. I.
Hazard Mfg. Co., Wilkes-Barre, Pa., & 55 Dey, New York

KERITE INSULATED WIRE & CABLE CO. ("Kerite"), 30 Church, New York. (See adv. index, end of book)

OKONITE CO. (Ltd.) (Railway Feed, etc.), 253 B'way, New York. (See adv. index, end of book)

Phillips Insulated Wire Co., Pawtucket, R. I.
Rochling's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.

Safety Insulated & Cable Wire Co., 114 Liberty, New York
Standard Underground Cable Co., Westinghouse bldg., Pittsburg, Pa.

Wire Fences & Gates

Adrian Wire Fence Co. (Wholesale Mfrs.), Adrian, Mich.

Adams Steel & Wire Works, Joliet, Ill.
Anchor Fence & Mfg. Co. (Farm & Railroad "Anchor" Spring Wire), Cleveland, O.

ANCHOR POST IRON WORKS, 19 Cortlandt, New York. (See adv. index, end of book)

Barhee Wire & Iron Works, 44 Dearborn, Chicago, Ill., & Lafayette, Ind.

Barnum, E. T. Wire & Iron Work, 82 Washington av., Detroit, Mich.

BOLLES, J. E. IRON & WIRE WKS., Cargill Mfg. Co. (Plain Colled, Barbed & Ornamental for Farm & Railroad), Buttes, av., Columbus, O. (See adv. index, end of book)

Bond Steel Post Co. ("Empire") Adrian, Mich.
CARPENTER, F. E. CO., 252 B'way, New York. (See adv. index, end of book)

CINCINNATI MFG. CO., 1243 W. 6th, Cincinnati, O. (See adv. index, end of book)

Clinton Wire Cloth Co., Clinton, Mass.
COLUMBIA IRON & WIRE WORKS Co., Canton, O. (See adv. index, end of book)

Cyclone Woven Wire Fence Co. (Cyclone Woven Wire), Cleveland, Ohio

Davis & Siehl, 4032 Hamilton av., Cincinnati, O.

De Kalb Fence Co. (Wholesale Mfrs.), De Kalb, Ill.

Denver Iron & Wire Works, Denver, Col.
De Witt Wire Cloth Co., 299 B'way, New York; 703 Market, Philadelphia, Pa.

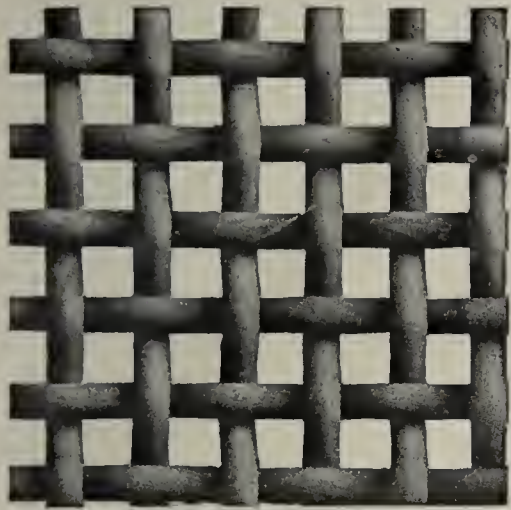
Dufur & Co., 311 N. Howard, Baltimore, Md.
Dwiggins Wire Fence Co. (Wholesale Mfrs.) (For Fields, Lawns, Cemeteries & Parks), Anderson, Ind.

Elliott & Ried Co. (Slat Fence, etc.), Richmond, Ind.

ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)

ESTEY WIRE WORKS CO., 59 Fulton, New York. (See adv. index, end of book)

Eureka Fence Mfg. Co. (Lawn Fences & Gates, etc.), Richmond, Ind.



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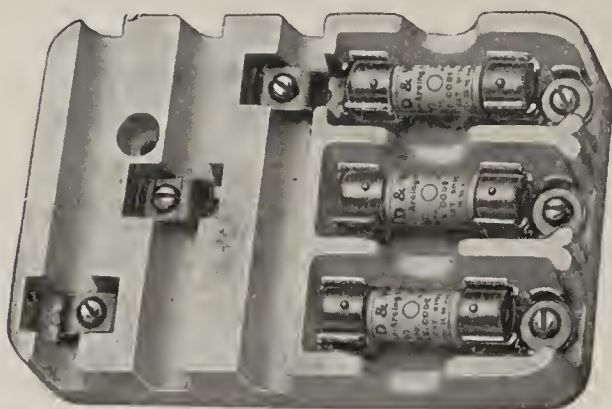


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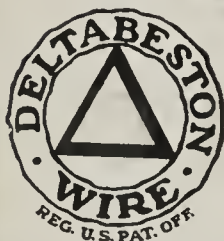
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 Haish, Jacob, Co. (Wholesale Mfrs.), De Kalb, Ill.

HANKE IRON & WIRE WORKS,
 1234 Fillmore, Chicago, Ill. (See adv. index, end of book)

Hinderer, C. A. F., New Orleans, La.

HOWARD & MORSE (For Interior),
 45 Fulton, New York. (See adv. facing first page of Index of Contents)

Indiana Anchor Fence Co., South Bend, Ind.

International Steel Post Co., 719 Chestnut, St. Louis, Mo.

Janesville Barb Wire Co. (Wholesale Mfrs.), Janesville, Wis.

Keystone Steel & Wire Co. (Wholesale Mfrs.), Peoria, Ill.

King & Dexter Co., Portland, Me.

Kitselman Bros. (Wholesale Mfrs.) (Ornamental), Muncie, Ind.

Kokomo Fence Machine Co. (Wholesale Mfrs.) (Ornamental & Shield), Kokomo, Ind.

Lamb Wire Fence Co. (Wholesale Mfrs.), Adrian, Mich.

Lansing Wheelbarrow Co., Lansing, Mich.

Low-Saylor Wire Co., St. Louis, Mo.

Majestic Wire Fence Co. (Lawn), Detroit, Mich.

Mason Fence Co. (Wholesale Mfrs.), Leesburg, O.

MEYERS, FRED. J. MFG. CO., Ham-
 iltan, O. (See adv. index, end of book)

Missouri Anchor Fence Co., St. Joseph, Mo.

Ohio Anchor Fence Co., Cleveland, O.

Pittsburg Steel Co. (Wholesale Mfrs.) (Perfect), Pittsburg, Pa.

Rickards Fence Co. ("Rickards" Steel Picket), Keokuk, Ia.

St. Louis Wire & Iron Co., 518 Chouteau av., St. Louis, Mo.

SCHREIBER, L. & SONS CO., 8th &
 Eggleston av., Cincinnati, O. (See adv. index, end of book)

Sleeth Mfg. Co. (Lawn & Stock Fence), Belleville, N. J.

SMITH, F. P. WIRE & IRON WORKS,
 100 Lake, Chicago, Ill. (See adv. index, end of book)

Southern Steel Co. (Field Fencing Only), Birmingham, Ala.

Spencer Wire Co. (Wholesale Mfrs.), Worcester, Mass.

Spring Steel Fence & Wire Co. (Wholesale Mfrs.), Anderson, Ind.

Stewart Iron Works Co., Covington, Ky.

TAYLOR & DEAN, Penn av & 25th,
 Pittsburg, Pa. (See adv. index, end of book)

Union Fence Co. (Wholesale Mfrs.), De Kalb, Ill.

VAN DORN IRON WORKS CO.
 (Steel), 2685 W. 79th, Cleveland, O. (See adv. index, end of book)

VULCAN CO., Detroit, Mich. (See adv. index, end of book)

WISCONSIN IRON & WIRE WORKS,
 190 E Water, Milwaukee, Wis. (See adv. index & branch offices, end of book)

WRIGHT WIRE CO. (Truss & Cable,
 Railway & Farm), Worcester, Mass. (See adv. index & branch offices, end of book)

Youngstown Sheet & Tube Co. (Wholesale Mfrs.), Youngstown, O.

Wire (Fire Detecting)

Montauk Fire Detecting Wire Co., 100 B'way, New York

*Wire (Fire-Proof)

VAN DORN ELECTRIC & MFG. CO.,
 2694 E. 79th, Cleveland, O. (See adv. index, end of book)

Wire (Fixture)

Bishop Gntta Percha Co., 422 E. 25th, New York

Moore, Alfred F., 202 N. 3d, Phila., Pa.

Wire (Flat & Round Tempered)

Cary Spring Works, 240 W 29th, New York

Morgan Spring Co., Worcester, Mass.

Crucible Steel Company of America (Crucible Steel Tempered & Untempered), Pittsburg, Pa.

Newman, C. Wire Co., 143 Liberty, New York

Seneca Wire Mfg. Co., Fostoria, Ohio

Spencer Wire Co., Worcester, Mass.

TRENTON WIRE CO., Trenton, N. J.
 & 30 Church, New York. (See adv. index, end of book)

*Wire Flooring (Woven)

AMERICAN STEEL & WIRE CO.,
 Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Wire (Florists')

Morgan Spring Co., Worcester, Mass.

Spencer Wire Co., Worcester, Mass.

TRENTON IRON CO., Trenton, N. J.
 & 30 Church, New York. (See adv. index, end of book)

WRIGHT WIRE CO. (Floral De-
 signs, etc.), Worcester, Mass. (See adv. index & branch offices, end of book)

Wire (Fourdrinier)

Appleton Wire Works, Appleton, Wis.

Babbitt-Harris Co., Clayville, N. Y.

BIGELOW, CHENEY WIRE WORKS,
 Springfield, Mass. (See adv. index, end of book)

Brown & Sellers Co., Holyoke, Mass.

Buchanan & Bolt Wire Co., Holyoke, Mass.

Cable, Wm. Excelsior Wire Mfg. Co., 41 Fulton, New York

De Witt Wire Cloth Co., 299 B'way, New York

DRIVER-HARRIS WIRE CO., Har-
 rison, N. J. (See adv. index, end of book)

Eastwood Wire Mfg. Co., Belleville, N. J.

Federal Wire Cloth Co., Harrison, N. J.

McCluskey, H. & T. & Sons, New Haven, Conn.

Gleeson, Thos. E., 411 John, E. N., Newark, N. J.

Globe Wire Cloth Co., Harrison, N. J.

Thistle Wire Works, Lee, Mass.

TYLER, W. S. CO., Cleveland, O.,
 & 11 B'way, New York. (See adv. index & branch offices, end of book)

Wisconsin Wire Works, Appleton, Wis.

Wire (Galvanized)

(See Wire, Market)

Wire (German Silver)

Babbitt-Harris Co., Clayville, N. Y.

Benedict & Burnham Mfg. Co., Waterbury, Conn.

Bridgeport Brass Co., Bridgeport, Conn.

Bristol Brass & Clock Co., Bristol, Conn.

Coe Brass Mfg. Co., Torrington, Conn.

Detroit Copper & Brass Rolling Mills, Detroit, Mich.

DRIVER-HARRIS WIRE CO. ("Fer-
 ro Nickel"), Harrison, N. J. (See adv. index, end of book)

HUNGERFORD, U. T. BRASS & COP-
 per Co., 497 Pearl, New York

McCluskey, H. & T. & Sons, New Haven, Conn.

MERCHANT & EVANS CO. (Inc.), 517
 Arch, Phila., Pa. (See adv. index & branch offices, end of book)

MICHIGAN WIRE CLOTH CO., 500
 Howard, Detroit, Mich. (See adv. index, end of book)

Plume & Atwood Mfg. Co., Waterbury, Conn.

Reeves, Paul S., & Son, 1415 Catharine, Phila., Pa.

Riverside Metal Co., Riverside, N. J.

Scovill Mfg. Co., Waterbury, Conn.

Seymour Mfg. Co., Seymour, Conn.

Waterbury Brass Co., Waterbury, Conn., & 99 John, New York

Wire Glass for All Purposes

(See Glass, Wire, Manufacturers)

*Wire (Gold & Silver)

AMERICAN PLATINUM WORKS,
 Chestnut st. & N. J. R. R. av., Newark, N. J. (See adv. index, end of book)

UNITED WIRE & SUPPLY CO.
 (Solid), 109 Summer, Providence, R. I. (See adv. index, end of book)

*Wire (Gold & Silver Plated)

UNITED WIRE & SUPPLY CO.
 (Seamless), 109 Summer, Providence, R. I. (See adv. index, end of book)

Wire Goods (Bright)

(See also the Specific Article Required)

Baird Machine Co. (Bright, to Order), Oakville, Conn.

Bromwell Co., Cincinnati, O.

Brooks, M. S. & Sons (All Kinds of Screw Specialties, etc.), Chester, Conn.

Dean, Hy. E. & Co. (Kitchen), Worcester, Mass.

Jenckes, E. Mfg. Co. (Special, Bright Iron & Brass, etc.), Pawtucket, R. I.

Hamblin & Russell Mfg. Co., Worcester, Mass.

HOWARD & MORSE, 45 Fulton, New
 York. (See adv. facing first page of Index of Contents)

Jenkinson, R. S. & Co., (By Automatic Machines), Newark, N. J.

Kilbourne Mfg. Co., Troy, N. Y.

Lydall & Foulds Paper Co., Manchester, Conn.

MICHIGAN WIRE CLOTH CO., De-
 troit, Mich. (See adv. index, end of book)

Morgan Spring Co., Worcester, Mass.

Ossawan Mills Co. (Bright), Norwich, Conn.

Parker Wire Goods Co. (Bright & Mill Wire), Worcester, Mass.

Phila. Steel & Wire Co., 525 Commerce, Phila., Pa.

Smith, F. P. & Co. (Specials), Sharon Hill, Pa.

Special Machinery Co., Bridgeport, Conn.

Traut & Hine Mfg. Co., New Britain, Conn.

Wire Goods Co. (Everything in Wire), Worcester, Mass.

Wire Specialty Co., 43 Fulton, Chicago, Ill.

WRIGHT WIRE CO., Worcester,
 Mass. (See adv. index & branch offices, end of book)

Wire (Gun Wrapping)

AMERICAN STEEL & WIRE CO.,
 Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Independent Steel & Wire Co., Pittsburg, Pa.

TRENTON IRON CO., Trenton, N. J.
 & 30 Church, New York. (See adv. index, end of book)

Wire (Hairpin)

Morgan Spring Co., Worcester, Mass.

TRENTON IRON CO., Trenton, N. J.
 & 30 Church, New York. (See adv. index, end of book)

Wire (Insulated)

Acme Rubber Mfg. Co. (Rubber Covered), Trenton, N. J.

Acme Wire Co. (Copper), New Haven, Conn.

American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York

AMERICAN STEEL & WIRE CO.,
 Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)

Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York

Ansonia Electrical Co., Ansonia, Conn.

Atlantic Insulated Wire & Cable Co., 120 Liberty, New York, & Stamford, Conn.

Bay State Insulated Wire & Cable Co., Hyde Park, Mass.

Belden Mfg. Co., 194 Michigan, Chicago, Ill.

Benedict & Burnham Mfg. Co., Waterbury, Conn.

Bishop Gutta Percha Co. (Rubber & Gutta Percha), 420 E 25th, New York

Boston Insulated Wire & Cable Co., 82 Freeport, Dor., Boston, Mass.

Bradford, Kyle & Co., Plymouth, Mass.

Bridgeport Brass Co., Bridgeport, Conn., & 19 Murray, New York

Chicago Insulated Wire & Mfg. Co., Sycamore, Ill., & 152 Lake, Chicago, Ill.

Collyer Insulated Wire Co., Pawtucket, R. I.

Crescent Insulated Wire & Cable Co., Trenton, N. J.

Detroit Insulated Wire Co., Detroit, Mich.

DIAMOND RUBBER CO., Akron, O.
 (See adv. index, end of book)

DRIVER-HARRIS WIRE CO., Har-
 rison, N. J. (See adv. index, end of book)

Electric Cable Co. ("Votax"), Bridgeport, Conn.

GENERAL ELECTRIC CO. (All
 Kinds), Schenectady, N. Y., & 30 Church, N. Y. (See adv. index & branch offices, end of book)

Habirshaw Wire Co., 253 B'way, New York

Hazard Mfg. Co. (Rubber), Wilkes-Barre, Pa., & 50 Dey, New York

Indiana Rubber & Insulated Wire Co. ("Paranite"), Jonesboro, Ind.

KERITE INSULATED WIRE & CA-
 ble Co. ("Kerite"), 30 Church, New York. (See adv. index, end of book)

Malin & Co. (Spooled), 641 Long av., N. W., Cleveland, O.
 Marion Insulated Wire & Rubber Co., Marion, Ind.
 Montauk Fire Detecting Wire Co., 100 William, New York
 Moore, Alf. F. (All Kinds), 200 N 3d, Phila., Pa.
 National Conduit & Cable Co., 41 Park row, New York
 National India Rubber Co., Bristol, R. I.
 New England Electric Works, Lisbon, N. H.
 New York Insulated Wire Co., 114 Liberty, New York.
OKONITE CO. (Ltd.), 253 B'way, New York. (See adv. index, end of book)
 Phillips, Insulated Wire Co., Pawtucket, R. I.
 Roebbing's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
 Safety Insulated Wire & Cable Co., 114 Liberty, New York
 Simplex Electrical Co., Cambridge, Mass.
 Standard Underground Cable Co., Westinghouse bldg, Pittsburgh, Pa.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, N. Y.
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wire & Telephone Co. of America, Rome, N. Y.

Wire (Lead)

Chadwick-Boston Lead Co., Boston, Mass.

Wire (Machinery)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
DRIVER-HARRIS WIRE CO., Harrison, N. J. (See adv. index, end of book)
 Morgan Spring Co., Worcester, Mass.
 Prentiss, Geo. W. & Co., Holyoke, Mass.
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York

Wire (Magnet)

Acme Wire Co., New Haven, Conn.
 American Electric Fuse Co. (Insulation Black Enamel), Muskegon, Mich.
 American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York
AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
 Ansonia Electrical Co. (Cotton & Silk Covered), Ansonia, Conn.
 Belden Mfg. Co. (Copper), 194 Michigan, Chicago, Ill.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bradford, Kyle & Co., Plymouth, Mass.

Chicago Insulated Wire & Mfg. Co., 152 Lake, Chicago, Ill., & Sycamore, Ill.
 Crescent Insulated Wire & Cable Co., Trenton, N. J.
D & W FUSE CO. ("Deltabeston"), Providence, R. I. (See adv. index, end of book)
DRIVER-HARRIS WIRE CO., Harrison, N. J. (See adv. index, end of book)
 Electric Cable Co. ("Voltax"), Bridgeport, Conn.
 Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
 Kellogg Switchboard & Supply Co. (Fine), Green & Congress, Chicago, Ill.
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)
 Moore, Alfred F., 200 N 3d, Phila., Pa.
 New England Electric Works, Lisbon, N. H.
 Roebbing's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York
 Standard Underground Cable Co., Westinghouse bldg, Pittsburgh, Pa.
 Stromberg Carlson Telephone Mfg. Co., Rochester, N. Y.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
 Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York
 Wire & Telephone Co. of America, Rome, N. Y.

Wire (Market)

American Can Co. (Galvanized Wire), 447 W 14th, New York
AMERICAN STEEL & WIRE CO., Commercial Nat. Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Atlanta Steel Co. (Open-Health Steel), Atlanta, Ga.
 Griswold Co. (Annealed, Bright & Galvanized), Sterling Ill.
 Griswold Wire Co. (Annealed), Braddock, Pa.
 Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey, New York
 Igoe Bros., 69 Metropolitan av., Brooklyn, N. Y., & Newark, N. J.
 Independent Steel & Wire Co., Pittsburg, Pa.
 Indiana Steel Wire Co., Muncie, Ind.
 Kokomo Steel & Wire Co., Kokomo, Ind.
 Morgan Spring Co. (Finished, Bright, Annealed, Galvanized, etc.), Worcester, Mass.
 Norton Iron Works (Inc.) (Annealed, Galvanized, etc.), Ashland, Ky.
 Pittsburg Steel Co. (Annealed, Bright & Galvanized), Pittsburg, Pa.
 Prentiss, G. W. & Co. (Annealed), Holyoke, Mass.
 Roebbing's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
 Seneca Wire Mfg. Co., Fostoria, Ohio.
 Southern Steel Co. (Plain & Galvanized), Birmingham, Ala.
 Spencer Wire Co. (Stone & Weaving), Worcester, Mass.

TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
 Trenton Iron Co., Trenton, N. J., & 17 Burlington Slip, New York
 Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York.
 Wickwire Bros. (Annealed, Bright & Galvanized), Cortland, N. Y.
WRIGHT WIRE CO. (Annealed), Bright & Galvanized, Worcester, Mass. (See adv. index & branch offices, end of book)
 Youngstown Sheet & Tube Co. (Annealed & Bright Smooth Wire), Youngstown, O.

Wire Mats (Steel)

(See Mats & Matting, Steel Wire)

Wire (Mattress)

Independent Steel & Wire Co., Pittsburg, Pa.
 Morgan Spring Co. (Tinned), Worcester, Mass.
 Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
WRIGHT WIRE CO. (Tinned), Worcester, Mass. (See adv. index & branch offices, end of book)

*Wire (Monel Metal)

DRIVER-HARRIS WIRE CO. (Round & Flat Ribbon), Harrison, N. J. (See adv. index, end of book)

Wire (Nail)

Youngstown Sheet & Tube Co., Youngstown, Ohio.

Wire (Needle)

(See Wire, Steel Needle)

Wire (Norway Iron)

TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

*Wire (Nut)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See index, end of book)

Wire (Phosphor Bronze)

Babbitt-Harris Co. (Fine Wires), Clayville, N. Y.
DRIVER-HARRIS WIRE CO. (Round & Flat), Harrison, N. J. (See adv. index, end of book)

The OKONITE Insulated WIRES and CABLES

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 Morgan Spring Co., Worcester, Mass.
 Newman, C. Wire Co., 143 Liberty, New York
 Spencer Wire Co., Worcester, Mass.
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 Waterbury Company (Inc.), 69 South, New York
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 Spencer Wire Co., Worcester, Mass.
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 Turner & Stanton Co., Norwich, Conn.

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Kidd Bros. & Burgher Steel Wire Co. (Polished), Alliquippa, Pa.
 Morgan Spring Co., Worcester, Mass.
 Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See index, end of book)

Wire (Plain & Galvanized)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
 Atlanta Steel Co. (Open & Hearth Steel), Atlanta, Ga.
 Belfont Iron Works Co., Ironton, O.
 Colorado Fuel & Iron Co., Denver, Col.
 Griswold Co., Sterling, Ill.
 Kelly Nail & Iron Co., Ironton, O.
 Kokomo Steel & Wire Co., Kokomo, Ind.
 Norton Iron Works, Ashland, Ky.
 Pittsburg Steel Co. (Steel), Pittsburg, Pa.
 Southern Steel Co., Birmingham, Ala.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See index, end of book)

Wire (Platinum)

(See Platinum Sheet & Wire)

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AMERICAN STEEL & WIRE CO. (Galvanized Before Weaving, All Meshes & Sizes), Commercial Nat. Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 American Wire Cloth Co., Harrison, N. J.
 American Wire & Iron Works Co., Atlanta, Ga.
 Barbee Wire & Iron Works, 44 Dearborn, Chicago, Ill. & Lafayette, Ind.
 Buffalo Wire Works Co., Buffalo, N. Y.
 California Wire Cloth Co., San Francisco, Cal.
CINCINNATI MFG. CO., 1243 W 6th, Cincinnati, O. (See adv. index, end of book)
 Clinton Wire Cloth Co., Clinton, Mass.
DARBY, EDW. & SONS CO., 239 Arch, Phila., Pa. (See adv. index, end of book)
 De Kalf Fence Co., De Kalf, Ill.
 De Witt Wire Cloth Co., 703 Market, Phila., Pa., & 299 B'way, New York.
 Dow Wire & Iron Works, Louisville, Ky.
 Dufur, Baggott & Co., 511 W German, Baltimore, Md.
ESTEY BROS. CO., Liberty & Green- wich, New York. (See adv. index, end of book)
 Eureka Fence Mfg. Co. ("Acme"), Richmond, Ind.
 Gilbert & Bennett Mfg. Co., Georgetown, Conn.
 Hallidie-Painter Tramway Co., 46 Fremont, San Francisco, Cal.
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
 Majestic Wire Fence Co., Detroit, Mich.
 New Jersey Wire Cloth Co., Trenton, N. J.
 Nimmo Fence & Wire Works Co., 305 E. 4th, Cincinnati, O.
 Pittsburg Steel Co., Frick bldg, Pittsburg, Pa.
 Roebling's, John A. Sons Co. (of New York) (For Export), Trenton, N. J., & 117 Liberty, New York
SMITH, F. P. WIRE & IRON WORKS, 100 Lake, Chicago, Ill. (See adv. index, end of book)
 West Coast Wire & Iron Works, San Francisco, Cal.
 Wickwire Bros., Cortland, N. Y.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)

Wire (Railroad Signal)

Western Wire Sales Co. ("Bishop," for Block Signal Installation), Chicago, Ill.

Wire (Resistance)

American Electrical Works, Phillipsdale, R. I.
 Belden Mfg. Co. (German Silver), 194 Michigan, Chicago, Ill.
 Benedict & Burnham Mfg. Co., Waterbury, Conn.
 Bradford, Kyle & Co., Plymouth, Mass.
 Carpenter Steel Co., Reading, Pa.
 Chicago Insulated Wire & Mfg. Co., 152 Lake, Chicago, Ill., & Sycamore, Ill.
 Coe Brass Mfg. Co., Torrington, Conn.
 Crescent Insulated Wire & Cable Co., Trenton, N. J.
 Electrical Alloy Co., Norristown, Pa.
DRIVER-HARRIS WIRE CO. ("Nichrome," "Climax," "Advance," "Manganin," "Ferro-Nickel," "Monel," German Silver), Harrison, N. J. (See adv. index, end of book)
 Moore, Alfred H., 200 N 3d, Phila., Pa.
 New England Electric Works, Lishon, N. H.
 Roebling's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
 Seymour Mfg. Co., Seymour, Conn.
TRENTON IRON CO. ("Tico"), Tren- ton, N. J. & 30 Church, New York. (See adv. index, end of book)
 Standard Underground Cable Co., Pittsburg, Pa.
 Washburn Wire Co., Providence, R. I.
 Waterbury Brass Co., Waterbury, Conn.

*Wire (Resistance, Silk & Cotton Covered)

DRIVER-HARRIS WIRE CO., Har- rison, N. J. (See adv. index, end of book)

Wire (Rivet, Staple, Screw, Etc.)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank bldg, Chicago, Ill. (See adv. index & branch offices, end of book)
 Independent Steel & Wire Co., Pittsburg, Pa.
 Morgan Spring Co., Worcester, Mass.
 Prentiss, Geo. W. & Co. (Staple & Screw), Holyoke, Mass.
 Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
 Washburn Wire Co., Phillipsdale, R. I.
 Youngstown Sheet & Tube Co., Youngstown, O.

Wire Rope Coating & Lubricant

American Supply Co., 3220 2nd av, Pittsburg, Pa.
 American Supply Co., Providence, R. I.
BRODERICK & BASCOM ROPE CO., 809 N. Main, St. Louis, Mo. (See adv. index, end of book)
CARPENTER, GEO. B. & CO., 202 S Water, Chicago, Ill. (See adv. index, end of book)
DIXON, JOS. CRUCIBLE CO. (Graph- ite), Jersey City, N. J. (See adv. index & branch offices, end of book)
 Ironsides Co., Columbus, O.
 Leschen, A. & Sons Rope Co., 920 N 1st, St. Louis, Mo.
STRONG MACHINERY & SUPPLY CO. ("Cableine"), 48 Franklin, New York. (See adv. index, end of book)
 Taylor, J. W., Summerville, S. C.
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Wire Rope (Derrick & Dredging)

(See Wire Rope & Cables)

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TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

*Wire Rope ("Kilindo" Non-Rotating)

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Resistance 60 times
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An alloy of unusual merit — capable of withstanding extremely high temperatures without oxidation. Designed especially and highly efficient for use in Electrically Heated Appliances generally.

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offices, end of book)

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av., Phila., Pa.
Reeves, Paul S. & Son, 1413 Catharine, Phila.,
Riverside Metal Co., Riverside, N. J. Pa.

Wire Rope Tramways

ALLIS-CHALMERS CO., Milwaukee,
Wis. (See adv. index & branch offices,
end of book)

BRODERICK & BASCOM ROPE CO.,
809 N. Main, St. Louis, Mo. (See adv.
index, end of book)

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son's," Looped Section Cableway for Ore.
Coal & Lumber, etc.), Baltimore, Md.
Davis, F. M. Iron Works Co., Denver, Col.
Denver Engineering Works Co., Denver, Col.

DOBBIE FOUNDRY & MACHINE
Co., Main Office & Works, N. Niagara
Falls, N. Y. (See adv. index & branch
offices, end of book)

Dusedau, Wm., 1732 Blake, Denver, Col.
Hallidie-Painter Tramway Co., 46 Fremont, San
Francisco, Cal.

Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey,
New York

Leschen, A. & Sons Rope Co. (Overhead), 920
N 1st, St. Louis, Mo.

LIDGERWOOD MFG. CO., 96 Liberty,
N. Y., & Old Colony bldg, Chicago, Ill.
(See adv. index & branch offices, end of book)

McFarlane Mfg. Co. ("Finlayson"), Denver, Col.

MACOMBER & WHYTE ROPE CO.,
266 S. Clinton, Chicago, Ill., & 126 Centre,
New York. (See adv. index & branch
offices, end of book)

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Mass. & 11 B'way, New York. (See adv.
index & branch offices, end of book)

N. Y. Cableway & Engineering Co., 1 Rector,
New York

NATIONAL HOISTING ENGINE CO.
(Cableways, etc.), Harrison, N. J. (See
adv. index & branch offices, end of book)

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index & branch offices, end of book)

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(See adv. index & branch offices, end of book)

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(See adv. index, end of book)

CARLIN'S, THOS. SONS CO. (Dealers),
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CARPENTER, GEO. B. & CO., 202 S
Water, Chicago, Ill. (See adv. index, end
of book)

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Hallidie-Painter Tramway Co. (Mfrs' Agents),
46 Fremont, San Francisco, Cal.

Hazard Mfg. Co., Wilkes-Barre, Pa., & 50 Dey,
New York

Leschen, A. & Sons Rope Co., St. Louis, Mo.

Macomber-Whyte-Moon Co., 122 Centre, New
York

MACOMBER & WHYTE ROPE CO.,
266 S. Clinton, Chicago, Ill., & 126 Centre,
New York. (See adv. index & branch
offices, end of book)

Roebbing's, John A. Sons Co. (of New York),
Trenton, N. J., & 117 Liberty, New York

TRENTON IRON CO. (Iron & Steel),
Trenton, N. J., & 30 Church, New York.

(See adv. index, end of book)

Washburn Wire Co., Phillipsdale, R. I., & 118th
& E. R., New York
Waterbury Co. (Inc.), ("Giant"), 69 South,
New York
Williamsport Wire Rope Co., Williamsport, Pa.
WRIGHT WIRE CO., Worcester,
Mass. (See adv. index, & branch offices,
end of book)

Wire (Rubber Covered)

American Electrical Works, Phillipsdale, R. I.,
Bay State Insulated Wire & Cable Co., Hyde
Park, Mass.

Bishop Gutta Percba Co. (Solid & Flexible),
422 E 25th, New York

Collyer Insulated Wire Co., Pawtucket, R. I.

Eastern Electric & Cable Wire Co., 61 Hampton,
Rox., Boston, Mass.

Illinois Electric Co. ("Raven" White Core Na-
tional Code Wires & Cables), 239 Madison,
Chicago, Ill.

Habirshaw Wire Co., 253 Broadway, New York

Indiana Rubber & Insulated Wire Co., Jones-
boro, Ind.

KERITE INSULATED WIRE & CA-
ble Co. ("Kerite"), 30 Church, New York.

(See adv. index, end of book)

Marion Insulated Wire & Rubber Co. (Cables),
Marion, Ind.

Moore, Alfred F. (Solid & Flexible), 202 N 3d,
Philadelphia, Pa.

National India Rubber Co., Bristol, R. I.

New York Insulated Wire Co. ("Grimshaw"
& "Raven" White Core), 114 Liberty, New
York.

Phillips Insulated Wire Co., Pawtucket, R. I.

Standard Underground Cable Co., Westinghouse
bldg, Pittsburg, Pa.

Wire (Rule)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

Newman, C. Wire Co., 143 Liberty, New York

TRENTON IRON CO., Trenton, N. J.
30 Church, New York. (See adv. index,
end of book)

Washburn Wire Co., Phillipsdale, R. I., &
118th & Harlem River, New York

*Wire (Scratch Brush)

DRIVER-HARRIS WIRE CO. (Brass,
German Silver, Steel), Harrison, N. J.

(See adv. index, end of book)

Wire (Screen)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

Dewitt Wire Cloth Co., 299 B'way, New York,
& Phila., Pa.

MEYERS, FRED. J. MFG. CO., Ham-
ilton, O. (See adv. index, end of book)

Seneca Wire Mfg. Co., Fostoria, O.

Spencer Wire Co., Worcester, Mass.

Wire Shapes (Special)

Brooks, M. S. & Sons, Chester, Conn.

Jenckes, E. Mfg. Co., Pawtucket, R. I.

Jenkinson, R. C. & Co., 289 Washington, New-
ark, N. J.

Spencer Wire Co., Worcester, Mass.

Titchener, E. H. & Co., Binghamton, N. Y.

Wire Specialty Co., 30 W Randolph, Chicago,
Ill.

Wire Specialties

(See Wire Goods (Bright))

Wire (Spoke)

Spencer Wire Co., Worcester, Mass.

TRENTON IRON CO., Trenton, N. J.
& 30 Church, New York. (See adv. index,
end of book)

Washburn Wire Co., Phillipsdale, R. I., &
118th & Harlem River, New York.

Wire (Spooled)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

Ansonia Brass & Copper Co., Ansonia, Conn., &
99 John, New York

Coe Brass Mfg. Co., Torrington, Conn.

Eastwood Wire Mfg. Co. (Brass & Copper),
Belleville, N. J.

Malin & Co., 641 Long av. N. W., Cleve-
land, O.

MERCHANT & EVANS CO. (Inc.), 517
Arch, Phila., Pa. (See adv. index & branch
offices, end of book)

Rome Brass & Copper Co., Rome, N. Y.

Spencer Wire Co., Worcester, Mass.

TRENTON IRON CO., Trenton, N. J.
& 30 Church, New York. (See adv. index,
end of book)

Wire Goods Co., Worcester, Mass.

WRIGHT WIRE CO. (Steel, Copper,
Brass or German Silver), Worcester, Mass.

(See adv. index & branch offices, end of book)

Wire (Square)

Independent Steel & Wire Co., Pittsburg, Pa.

TRENTON IRON CO., Trenton, N. J.
& 30 Church, New York. (See adv. index,
end of book)

Wire (Steel)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

Atlanta Steel Co. (Open-Hearth), Atlanta, Ga.

Carpenter Steel Co. (High Grade), Reading,
Pa.

Cedarburg Wire & Wire Nail Co., Cedarburg,
Wis.

Colorado Fuel & Iron Co., Denver, Colo.

Crawfordsville Wire & Nail Co., Crawfordsville,
Ind.

Crucible Steel Co. of America, Pittsburg, Pa.

Damascus Tool Steel Co. (Crucible), Pitts-
burg, Pa.

DRIVER-HARRIS IRON CO. ("Her-
cules" Tinned Armature Binding), Har-
rison, N. J. (See adv. index, end of book)

Globe Wire Co. (Drawn Steel), Sharpsburg, Pa.

Grand Crossing Tack Co., S Chicago av & 79th,
Chicago, Ill.

Grissold Co., Sterling, Ill.

Halcomb Steel Co. (Fine Crucible & High
Grade), Syracuse, N. Y.

Hamilton's, T. Sons, 1346 E Berks, Phila., Pa.

Hazard Mfg. Co. (Cast Steel), Wilkes-Barre,
Pa., & 50 Dey, New York

Igoe Bros. (Also Iron), 69 Metropolitan av.,
Brooklyn, N. Y., & Newark, N. J.

Independent Steel & Wire Co. (Basic & Besse-
mer), Pittsburg, Pa.

Indiana Steel Wire Co., Muncie, Ind.

Kidd Bros. & Burgher Steel Wire Co. (Coiled
Crucible Polished), Aliquippa, Pa.

Kokomo Steel & Wire Co., Kokomo, Ind.

Morgan Spring Co., Worcester, Mass.

New Process Mfg. Co., St. Louis, Mo.

Newman, C. Wire Co., 143 Liberty, New York

Norton Iron Works, Ashland, N. Y.

Pittsburg Steel Co. (Bessemer & Open-Hearth),
Pittsburg, Pa.

Pittsburg Tool Steel Wire Co., Monaco, Pa.

Roebbing's, John A. Sons Co. (of New York),
Trenton, N. J., & 117 Liberty, New York

Seneca Wire Mfg. Co., Fostoria, O.

Spencer Wire Co., Worcester, Mass.

Townsend, C. C. & E. P., New Brighton, Pa.

TRENTON IRON CO. (Bessemer &
Open Hearth; Also Iron Wire), Trenton,
N. J. & 30 Church, New York. (See adv.
index, end of book)

Washburn Wire Co., Phillipsdale, R. I., &
118th & Harlem River, New York.

Wickwire Bros., Cortland, N. Y.

WRIGHT WIRE CO., Worcester,
Mass. (See adv. index & branch offices,
end of book)

Youngstown Sheet & Tube Co. (Smooth Steel),
Youngstown, O.

Wire (Steel Ball)

AMERICAN STEEL & WIRE CO.,
Commercial Nat'l Bank Bldg., Chicago, Ill.

(See adv. index & branch offices, end of book)

TRENTON IRON CO., Trenton, N. J.
& 30 Church, New York. (See adv. index,
end of book)

Washburn Wire Co., Phillipsdale, R. I., &
118th & Harlem River, New York.

Wire (Steel, Band & Hack Saw)

Newman, C. Wire Co., 143 Liberty, New York

Washburn Wire Co., Phillipsdale, R. I., & 118th
& Harlem River, New York

Wire (Steel Brush)

(See Wire, Broom & Brush)

AMERICAN WIRE ROPE

☐ Hoisting rope of every description for elevators, mines, coal hoists, ore hoists, conveyors, derricks, ballast unloaders, etc. Towing hawsers, mooring lines, tiller rope and ships' rigging. Power transmission rope, street railway, mine haulage and surface haulage cables. Dredge and logging ropes, suspension bridge cables, cableway ropes and strands, guy strands, sash cord and clothes lines. Flat rope for hoisting purposes.

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OF EVERY DESCRIPTION

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BRODERICK & BASCOM ROPE CO., St. Louis, Mo.

Wire (Steel Needle)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Crucible Steel Company of America (Cold Drawn), Pittsburg, Pa.
Halcumb Steel Co., Syracuse, N. Y.
Independent Steel & Wire Co., Pittsburg, Pa.
Pittsburg Tool Steel Wire Co., Monaca, Pa.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York.
Webb Wire Works, New Brunswick, N. J.

Wire (Steel Spring)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Hartley, Geo. (Cast Steel Watch, Clock, etc.), Waterbury, Conn.
Independent Steel & Wire Co., Pittsburg, Pa.
Kidd Bros. & Burgher Steel Wire Co. (Crucible Coiled Polished), Allquippa, Pa.
Morgan Spring Co., Worcester, Mass.
Newman, C. Wire Co., 143 Liberty, New York
Roebling's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
Seneca Wire Mfg. Co., Fostoria, O.
Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
Washburn Wire Co. (Clock & Motor, etc.), Phillipsdale, R. I., & 118th & Harlem River, New York.
Youngstown Sheet & Tube Co., Youngstown, Ohio

Wire (Steel, Telephone & Telegraph)

Roebling's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

Wire Straighteners (Roll & Rotary)

(See Machinery)

Wire Straighteners & Cutters (Automatic)

Franklin Mfg. Co. ("Crackerjack"), 133 Mill River, New Haven, Conn.
Franklin Mfg. Co. ("Crackerjack"), 133 Mill River, New Haven, Conn.
Hoefer Mfg. Co., Freeport, Ill.
Kokomo Steel & Wire Co., Kokomo, Ind.
Morgan Spring Co., Worcester, Mass.

Wire (Strand)

BRODERICK & BASCOM ROPE CO., 809 N. Main, St. Louis, Mo. (See adv. index, end of book)
Dewitt Wire Cloth Co., 299 B'way, New York & Phila., Pa.
Hazard Mfg. Co. (Galvanized Steel), Wilkes-Barre, Pa., & 50 Dey, New York
Leschen, A. & Sons Rope Co., 920 N 1st, St. Louis, Mo.
MACOMBER & WHYTE ROPE CO., 266 S Clinton, Chicago, Ill., & 126 Centre, New York. (See adv. index & branch offices, end of book)
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

Wire (Sub-Marine)

(See Cables, Sub-Marine)

Wire (Tack)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Morgan Spring Co., Worcester, Mass.
Seneca Wire Mfg. Co., Fostoria, O.
Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York.
Youngstown Sheet & Tube Co., Youngstown, Ohio

Wire (Tag)

Morgan Spring Co. (Cut or Bunched), Worcester, Mass.
Seneca Wire Mfg. Co., Fostoria, O.
Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
WRIGHT WIRE CO. (Cut or Bunched), Worcester, Mass. (See adv. index & branch offices, end of book)

Wire (Telephone & Telegraph)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO., ("W & M," Steel, Iron or Copper), Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Atlantic Insulated Wire & Cable Co., 120 Liberty, New York, & Stamford, Conn.
Bay State Insulated Wire & Cable Co., Hyde Park, Mass.
Collyer Insulated Wire Co., Pawtucket, R. I.
Crawfordville Wire & Nail Co., Crawfordville, Ind.
Detroit Copper & Brass Rolling Mills (Copper), Detroit, Mich.
Indiana Rubber & Insulated Wire Co. ("Paranite"), Jonesboro, Ind.
KERITE INSULATED WIRE & CABLE CO. ("Kerite"), 30 Church, New York. (See adv. index, end of book)
MICHIGAN WIRE CLOTH CO., 500 Howard, Detroit, Mich. (See adv. index, end of book)
National Conduit & Cable Co., 41 Park Row, New York
New York Insulated Wire Co., 114 Liberty, New York
Phillips Insulated Wire Co., Pawtucket, R. I.
Roebling's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
Standard Underground Cable Co., Westinghouse bldg, Pittsburg, Pa.
Washburn Wire Co. (Galvanized Iron & Steel), Phillipsdale, R. I., & 118th & Harlem River, New York.
Wire & Telephone Co. of America (Telephone), Rome, N. Y.

Wire (Tinned)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Igoc Bros., 69 Metropolitan av., Brooklyn, N. Y., & Newark, N. J.
Independent Steel & Wire Co., Pittsburg, Pa.
Morgan Spring Co., Worcester, Mass.
Pittsburg Steel Co., Pittsburg, Pa.
Prentiss, G. W. & Co., Holyoke, Mass.
Spargo, Jas. A. Wire Co. (Tinned Copper), Rome, N. Y.
Spencer Wire Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York.
Wickwire Bros., Cortland, N. Y.
WRIGHT WIRE CO., Worcester, Mass. (See adv. index & branch offices, end of book)
Youngstown Sheet & Tube Co., Youngstown, Ohio

Wire Trellises

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)
Buffalo Wire Works Co., Buffalo, New York
ESTEY BROS. CO., Liberty & Greenwich, New York. (See adv. index, end of book)
HOWARD & MORSE, 45 Fulton, New York. (See adv. facing first page of Index of Contents)
Spencer Wire Co., Worcester, Mass.

Wire (Trolley)

American Electrical Works, Phillipsdale, R. I.
AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Ansonia Brass & Copper Co., Ansonia, Conn., & 99 John, New York
Benedict & Burnham Mfg. Co., Waterbury, Conn.

Bridgeport Brass Co. ("Phono-Electric"), Bridgeport, Conn.
Coe Brass Mfg. Co., Torrington, Conn.
Collyer Insulated Wire Co., Pawtucket, R. I.
Detroit Copper & Brass Rolling Mills, Detroit, Mich.
Hendricks Bros., 49 Cliff, New York
Phillips Insulated Wire Co., Pawtucket, R. I.
Roebling's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)

Wire (Twisted)

Detroit Insulated Wire Co., Detroit, Mich.
Saubrey, Albert F. (in 5000 Ft. Coils & Cut to Small Lengths), 259 E Livingston av, Columbus, O.
Spencer Wire Co., Worcester, Mass.

Wire (Umbrella)

AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Morgan Spring Co., Worcester, Mass.
TRENTON IRON CO., Trenton, N. J. & 30 Church, New York. (See adv. index, end of book)
Washburn Wire Co., Phillipsdale, R. I., & 118th & Harlem River, New York
Youngstown Sheet & Tube Co., Youngstown, Ohio

Wire (Waterproof)

Collyer Insulated Wire Co., Pawtucket, R. I.

Wire (Weatherproof)

American Electrical Works, Phillipsdale, R. I., & 26 Cortlandt, New York
AMERICAN STEEL & WIRE CO., Commercial Nat'l Bank Bldg., Chicago, Ill. (See adv. index & branch offices, end of book)
Ansonia Brass & Copper Co., Ansonia, Conn.
Ansonia Electrical Co. (Line Wires & Cables), Ansonia, Conn.
Bay State Insulated Wire & Cable Co., Hyde Park, Mass.
Benedict & Burnham Mfg. Co., Waterbury, Conn.
Bridgeport Brass Co., Bridgeport, Conn.
Chicago Insulated Wire and Mfg. Co., 152 Lake, Chicago, Ill.
Coe Brass Mfg. Co., Torrington, Conn.
Collyer Insulated Wire Co. (Also Slow Burning), Pawtucket, R. I.
Electric Cable Co. ("Voltax"), Bridgeport, Conn.
Ewing-Merkie Electric Co., 1108 Pine, St. Louis, Mo.
Hazard Mfg. Co. (Insulated), Wilkes-Barre, Pa., & 50 Dey, New York
Illinois Electric Co. (Including Slow Burning), 239 Madison, Chicago, Ill.
KERITE INSULATED WIRE & CABLE CO. ("Kerite"), 30 Church, New York. (See adv. index, end of book)
Moore, Alfred F. (Also Slow Burning), 200 N 3d, Philadelphia, Pa.
National Conduit & Cable Co. (Wire & Cables), 41 Park row, New York
OKONITE CO. (Ltd.), 253 B'way, New York. (See adv. index, end of book)
Phillips Insulated Wire Co. (Slow Burning), Pawtucket, R. I.
Roebling's, John A. Sons Co. (of New York), Trenton, N. J., & 117 Liberty, New York.
Simplex Electrical Co., Cambridge, Mass.
Standard Underground Cable Co., Westinghouse bldg, Pittsburg, Pa.
Western Electric Co., 259 S Clinton, Chicago, Ill., & 57 Bethune, New York

Wire Weaving

Morgan Spring Co., Worcester, Mass.
Seneca Wire & Mfg. Co., Fostoria, Ohio.
Youngstown Sheet & Tube Co., Youngstown, Ohio

***Wire Winding on Hose**

BOSTON BELTING CO., 260 Devonshire, Boston, Mass., & 100 Reade, New York (See adv. index & branch offices, end of book)

***Wire Work for Banks, Offices, Etc.**

BOLLES, J. E. IRON & WIRE WORKS, Detroit, Mich. (See adv. index, end of book)

ESTEY BROS. CO., Liberty & Green-
wich, New York. (See adv. index, end of book)

STANDARD CO., Railway Exchange
bldg, Chicago, Ill. (See adv. index, end of book)

TYLER, W. S. CO., Cleveland, O.
(See adv. index & branch offices, end of book)

Wire Workers

Acme Fancy Wire Works, Detroit, Mich.
Adams Steel & Wire Works, Joliet, Ill.
Ajax Iron & Wire Co., 75 York, Brooklyn, N. Y.
American Fence & Forge Co., Dayton, O.
AMERICAN STEEL & IRON CO.,
Commercial Nat'l Bank Bldg., Chicago,
Ill. (See adv. index & branch offices, end
of book)

Anderson, H. C., 80 Pearl, New York.
Andrews Wire & Iron Works Co., Rockford, Ill.
Architectural Iron & Wire Works, Wheeling, W.
Va.

American Iron & Wire Works, c Jefferson & W
Lake, Chicago, Ill.
ARCHITECTURAL IRON & WIRE
Works, Wheeling, W. Va.

Atlanta Wire & Iron Works Co., Atlanta, Ga.
Aubel, F. & E., 2504 Cadwallader, Phila., Pa.
Balderston, H. & Son, 319 Pearl, Baltimore, Md.
Baldwin Brass Works (Wire Guards, etc.),
232 S Canal, Chicago, Ill.
Baltimore Wire Works, 119 Light, Baltimore,
Md.

Barnum, E. T. Wire & Iron Works, 82 Wash-
ington av., Detroit, Mich.
Bataille, Achille & Co., 587 Hudson, New York.
Berger, A. A., Houston, Tex.
BIGELOW, CHENEY WIRE WORKS,
Springfield, Mass. (See adv. index, end of
book)

BOLLES, J. E. IRON & WIRE
Works, Detroit, Mich. (See adv. index,
end of book)

Bridgeport Wire & Iron Works, Bridgeport, Pa.
Bromwell, Brush & Wire Goods Co., Cincin-
nati, O.

Buffalo Wire Works Co. (Guards), 316 Ter-
race, Buffalo, N. Y.
Calre, Justinian Co., 565 Market, San Francisco,
Cal.

California Artistic Metal & Wire Co., 539 Mis-
sion, San Francisco, Cal.
California Wire Cloth Co., 8 Pine, San Fran-
cisco, Cal.

Carr Bros., 5311 W Lake av, Chicago, Ill.
Champion Iron & Wire Works, Omaha, Neb.
CINCINNATI MFG. CO., 1243 W 6th,
Cincinnati, O. (See adv. index, end of book)

City Forge & Iron Works (Andrew Plocher,
Prop.), Dayton, O.

Clinton Wire Cloth Co., Clinton, Mass.
Coleman, Wm. B., Covington, Ky.
COLUMBIA IRON & WIRE WORKS
Co., Canton, O. (See adv. index, end of
book)

Columbia Wire & Iron Works, 83 Walnut,
Chicago, Ill.

COLUMBUS WIRE & IRON WORKS
Co., Columbus, O. (See adv. index, end of
book)

DARBY, EDW. & SONS CO., 239 Arch,
Phila., Pa. (See adv. index, end of book)

Dean, Hy. E. & Co., Worcester, Mass.
Des Moines Wire Works, Des Moines, Ia.

De Witt Wire Cloth Co., 299 B'way, New York,
& 703 Market, Phila., Pa.

Donovan Wire & Iron Co. (Plain & Ornamental),
Toledo, O.

Durfur & Co., 311 N. Howard, Baltimore, Md.
ESTEY BROS. CO., Liberty & Green-
wich, New York. (See adv. index, end of
book)

ESTEY WIRE WORKS CO., 59 Ful-
ton, New York. (See adv. index, end of
book)

FLOUR CITY ORNAMENTAL IRON
Works, 27th st. & 28th av., Minneapolis,
Minn. (See adv. index, end of book)

FOREST CITY STEEL & IRON CO.,
110th nr Detroit av., Cleveland, O. (See adv.
index, end of book)

Fruhling, Wm. A., Los Angeles, Cal.
Globe Wire & Iron Works, Milwaukee, Wis.

HANKE IRON & WIRE WORKS,
1234 Fillmore, Chicago, Ill. (See adv. in-
dex, end of book)

Hennecke, C. Co., Milwaukee, Wis.
Hopkins & Co., 198 W B'way, New York

HOWARD & MORSE, 45 Fulton, New
York. (See adv., facing first page of Index
of Contents)

Huxley, John H., 107 Fulton, New York
Imperial Wire & Iron Roofing, Louisville, Ky.

Jackson & Cook, 318 Market, Philadelphia, Pa.
Kansas City Wire & Iron Works, Kansas City,
Mo.
Kentucky Wire Works, Louisville, Ky.
Keystone Iron & Wire Railing Works, 818 Wil-
low, Phila., Pa.

Kleeman, Trotter & Co., Kansas City, Mo.
LONDON, E. R. IRON & WIRE
Works, 18 N. May, Chicago, Ill. (See
adv. index, end of book)

Lasar-Letzig Mfg. Co., 1313 N 16th, St. Louis,
Linderschmidt Co., Evansville, Ind. Mo.
Louisville Wire Works (Inc.), Louisville, Ky.

Love Bros. (Inc.), Aurora, Ill.
Ludlow-Saylor Wire Co., St. Louis, Mo.
McCormack Wire & Iron Works, 770 Fulton,
Brooklyn, N. Y.

Mack Iron Works Co., Sandusky, O.
May, Jacob, 850 DeKalb av, Brooklyn, N. Y.
Megquier & Jones Co., Portland, Me.

Melocik, Henry, 1313 Ashland av., Baltimore,
Mesker, Geo. L. & Co., Evansville, Ind. Mo.
MICHIGAN WIRE CLOTH CO., 500
Howard, Detroit, Mich. (See adv. index,
end of book)

Muth, Christian, 428 Blue Island av, Chicago,
National Iron & Wire Co., Cleveland, O. Ill.
National Mfg. Co., Worcester, Mass.

Newark Wire & Brass Works, 261 Market, New-
ark, N. J.
N. Y. Brass & Wire Works Co., 177 Grand, New
York

Norwood, King & Wels, 30 Boerum, Brooklyn,
N. Y.

Ornamental Iron & Wire Works Co. (Inc.), Ports-
mouth, Va.

Perkins Mfg. Co., St. Paul, Minn.
Phoenix Wire Works, Detroit, Mich.

Pioneer Iron & Wire Works Co., Denver, Col.
PITF, WM. R. COMPOSITE IRON
Works, 136-138 W 24th, New York. (See
adv. index, end of book)

Portland Wire & Iron Works, Portland, Ore.
Purcell, N. F. & Co., 232 S Clinton, Chicago,
Ill.

Queen City Wire Works, 193 Seneca, Buffalo,
N. Y.

St. Louis Wire & Iron Co., 520 Chouteau av,
St. Louis, Mo.

San Francisco Novelty & Plating Works, 515
Mission, San Francisco, Cal.

SMITH, F. P. WIRE & IRON WORKS,
100 Lake, Chicago, Ill. (See adv. index,
end of book)

Snow Wire Works Co., Rochester, N. Y.
Stidman & Co., 16 N. Frederick, Baltimore, Md.

Strawbridge & Chase (Ltd.), 228 Arch, Phila.,
Syracuse Wire Works, Syracuse, N. Y. Pa.

TAYLOR & DEAN, Penn av & 25th,
Pittsburg, Pa. (See adv. index, end of book)

Titchener, E. H. & Co., Binghamton, N. Y.
Turner & Seymour Mfg. Co., Torrington, Conn.

Twin City Iron & Wire Works, 223 E 6th, St.
Paul, Minn.

TYLER, W. S. CO., Cleveland, O.
(See adv. index & branch offices, end of book)

Voss, Fred., 617 Austin av, Chicago, Ill.
VULCAN CO., Detroit, Mich. (See
adv. index, end of book)

West Coast Wire & Iron Works, 17 Fremont,
San Francisco, Cal.

Western Wire Works, San Francisco, Cal.
What Cheer Wire Works, Providence, R. I.

White Bros. Mfg. Co., Denver, Colo.
White Wire Works Co., Rochester, N. Y.

Whyte, Oliver & Co., 17 Cornhill, Boston, Mass.
Williams, Geo. A. & Sons, 85 Fulton, New
York

Wilson, H. P. & H. F., 577 10th av, New York
WISCONSIN IRON & WIRE WORKS, Mil-
waukee, Wis. (See adv. index, end of book)

Wire Working Machinery

(See Machinery, Etc.)

Wire (Zinc)

Lanyon Zinc Co., Iola, Kan.

Wires (Pointed)

Reed & Prince Mfg. Co., Worcester, Mass.

Wires (Threaded)

Ohio Nut & Bolt Co., Berea, O.
Progressive Mfg. Co. (To Order Only), Torrington,
Conn.

Reed & Prince Mfg. Co., Worcester, Mass.

Wood (Bent)

Carrier Lumber & Mfg. Co., Sardis, Miss.
Dann Bros & Co. (To Order), New Haven,
Conn.

Gillette, C. H. & Co., Indianapolis, Ind.
Gillette, C. H. & Son, Jonesboro, Ark.
Gillette, W. H., Louisville, Ky.
Michigan Barrel Co., Grand Rapids, Mich.

Wood Carpets

(For all other Manufacturers of Wood Carpets
see Floors, Parquet)

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book)

WOOD-MOSAIC FLOORING & LUM-
ber Co., Main Office & Factory, Rochester,
N. Y. (See adv. index & branch offices, end
of book)

Wood Columns

(See Columns, Porch, Etc., Manufacturers)

Wood Dye

Johnson, S. C. & Son ("Johnson's"), Racine,
Wis.

Wood Finishes

(See Hard Oil Finish)

Wood Floor-Interlocking

(See Flooring, Wood Block)

*Wood Floors (Mosaic)

(See also Wood Carpets; also Floors, Parquet)

THE INTERIOR HARDWOOD CO
MANUFACTURERS INDIANAPOLIS, IND.

(See adv. index, end of book)

WOOD-MOSAIC FLOORING & LUM-
ber Co., Main Office and Factory, Rochester,
N. Y. (See adv. index & branch offices,
end of book)

Wood (Lignumvitae)

Boston & Lockport Block Co., 160 Commercial,
Boston, Mass.

McMillan's, W. H. Sons (Rough, Turned &
Sawed), 153 South, New York

Maryland Steam Block & Pump Works, Bal-
timore, Md.

Wood Modelers (Architectural)

(See Carvers, Wood, Classic; also Modelers &
Sculptors, Architectural)

Wood Novelties (Turned, Etc.)

(See also Woodenware & Novelties)

American Enamel Co., Providence, R. I.
American Wood Working Co., 108 Fulton, New
York. Factory, Weld, Me.

Bender Co., Hamilton, O.
Estes, E. B. & Sons, 74 Warren, New York

Hawes-Laanna Co. (Rolling Pins, Potato
Mashers, Slaw Cutters, Towel Racks,
etc.), Towanda, Pa.

Hellenberg & Son (Ten Pins, Nails & Mallets,
Indian Clubs, Dumb Bells, Exercising Hor-
izontal Bars & Trapeze Bars, etc.), Cold-
water, Mich.

Holland Veneering Co., Holland, Mich.
Lewis, W. E. Mfg. Co. (Wooden Novelties),
West Springfield, Pa.

Markham Mfg. Co., Plymouth, Mich.
Martin, L., Richmond, N. H.

Mossman, Jerome, Fitchburg, Mass.
Novelty Turning Co. (& Enamels, Potato Mash-
ers, Rolling Pins, Chopping Bowls, Toys,
Furniture, Druggists' Boxes, etc.), Norway,
Me.

OSBORN MFG. CO. (Rice Plant), New
Durham, N. H. (See adv. index, end of book)

Peters', Jno. M Sons (Handles, Towel Racks,
Rings, Curtain Fixtures, etc.), Bleecker,
N. Y.

Phillips, A. J., Co. (Door Holders, Towel
Racks, Mops, Stable Scrapers, etc.),
Fenton, Mich.

Pelrce, W. E. & Co., Milford, N. H.
Piqua Handle & Mfg. Co., Piqua, O.

Richards & Bechtold (Kitchen, Dairy, Bakery &
Confectioners' Utensils), Bellaire, Mich.
Russell Bros. & Estes, Farmington, Me.

Sandusky Tool Co. (Croquet Balls, Indian & Base Ball Clubs, Small Handles, Mauls, Potato Mashers, Mallets, Bung Starters, Chalk Line Reels, etc.), Sandusky, O.
Sidney Novelty Co., Sidney, N. Y.
Sommer's, John Son (Faucets, Mallets, Rolling Pins, Reels, Mashers, Air Vents, etc.), New York, N. J.
Standard Novelty Works, Texarkana, Ark.
Stowell, N. S. Spool & Wood Turning Co. (Spools, Tool & Small Handles, Boxes, etc.), Dixfield, Me.
Wausau Novelty Co., Wausau, Wis.
Western Box Co. (Druggists' Boxes, Lock Corner Boxes, etc.), 42 River, Chicago, Ill.
Weston Paper & Mfg. Co. (Wood Pie Plates & Dishes), Dayton, O.
Williams & Marvin Mfg. Co. (Caster Wheels, Closet Pulls, Small Knobs, Pin Bushings & Variety Turnings), Deep River, Conn.
Woodstock Hardwood & Spool Mfg. Co. (Heavy Hardwood for Shipbuilding & Locomotive Building, Textile Mills, etc.), Charleston, S. C.

Wood Pipe

(See Pipe, Wood)

*Wood Pipe Casings ("Wyckoff")

WYCKOFF, A. & SON CO. (Patent Waterproof Steam Pipe Coverings), Elmira, N. Y. (See adv. index, end of book)

Wood Preservatives

(See also Creosoting Works)

Barber Asphalt Paving Co. (Dead Oil of Coal Tar Process), Maurer, N. J.
Barrett Mfg. Co. (Creosote), Land Title bldg., Berlin Mills Co., Portland, Me. Phila., Pa.
C. A. Mfg. Co. ("C. A."), Austin, Tex.
CABOT, SAMUEL (Conservo), 141 Milk, Boston, Mass. & 28 Dearborn av., Chicago, Ill. (See adv. index & branch offices, end of book)
Carbolinum Wood Preserving Co. ("Avenarius"), Milwaukee, Wis.
Cromwell-Walker Co., Harrison, N. J.
Dielectric Co. of America, ("Phenoreum"), Belleville, N. J.
ELECTRIC FIREPROOFING CO., New York. (See adv. index, end of book)
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Menzel, Wm. & Son (Lignit Savor), 68 Broad, New York
Milwaukee Wood Preserving Co., 806 3d, Milwaukee, Wis.
NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
Norfolk Creosoting Co., Norfolk, Va.
Preservative Products Co. ("Eco"), 1133 B'way, New York
Protectus Co., North American bldg., Phila., Pa.
Sonneborn, L. Sons (Inc.), ("Amalia," "Korbol"), 262 Pearl, New York.
Sprittine Chemical Co., Wilmington, N. C.
U. S. Wood Preserving Co., 29 B'way, New York. Works, Perth Amboy, N. J.
Walker Chemical Works, Harrison, N. J.

*Wood Pulp Mfrs.

DU PONT, E. I., de NEMOURS POWDER CO., Wilmington, Del. (See adv. index & branch offices, end of book)

Wood Stains

Acme White Lead & Color Works, Detroit, Mich.
Allentown Mfg. Co., Allentown, Pa.
Ashley, T. C. & Co., 54 High, Boston, Mass.
Barrett, Chas. A. P. Co., Dayton, O.
Berry Bros. (Limited), Main Office & Factory, Detroit, Mich.
Billing-Chapin Co., 1163 E. 40th, N. E., Cleveland, O.
Billings, King & Co., 438 Pearl, New York, & 153 Congress, Boston, Mass.
Bowers, U. R. & Sons ("Afro-Lac"), Los Angeles, Cal.
Bridgeport Wood Finishing Co. (Oil, Water & Penetrating), New Milford, Conn.
CABOT, SAMUEL, 141 Milk, Boston, Mass., & 28 Dearborn av., Chicago, Ill. (See adv. index & branch offices, end of book)
Chicago Varnish Co. (Wood Tints), 855 Elston av., Chicago, Ill.
Chicago Wood Finishing Co., 259 Elston av., Chicago, Ill.
Connors, Wm. Paint Mfg. Co., Troy, N. Y.
Devoe, F. W. & C. T. Reynolds Co., Fulton & William, New York.
Dexter Bros. Co., 103 Broad, Boston, Mass.
Eagle Paint & Varnish Co., Allegheny, Pa.
Felton, Sibley & Co., 136 N 4th, Phila., Pa.
Forest City Paint & Varnish Co., Hamilton & Kirtland, Cleveland, O.
FRENCH, SAMUEL H. & CO., 4th & Callowhill, Philadelphia, Pa. (See adv. index, end of book)

Glidden Varnish Co., Rockefeller Bldg., Cleveland, O.
GROSCHKE, BRUNO & CO., 13 Jones Lane, New York. (See adv. above)
Harrison Bros. & Co. (Inc.), 35th & Gray's Ferry rd., Phila., Pa.
Kling Paint Mfg. Co., 27 Dunham pl., Brooklyn, N. Y.
Lawrence-McFadden Co., 1400 Franklin, Phila., Pa.

Lucas, J. & Co., 322 Race, Phila., Pa.
McLennan Paint Co., Detroit, Mich.
McQuade, John & Co., 416 Marcy av., Brooklyn, N. Y.
Marietta Paint & Color Co., Marietta, O.
Masury, John W. & Son, Brooklyn, N. Y.

NEVIN, T. H. CO., North Side, Pittsburgh, Pa. (See adv. index, end of book)
Nice, Eugene E. (Nice), 272 S 2nd, Phila., Pa.
Patterson-Sargent Co. ("Mission"), Cleveland, Ohio

Pratt & Lambert (Inc.), 100 William, New York
Sherwin-Williams Co., Cleveland, O.
Standard Varnish Works, 29 B'way, New York
Union Roofing & Mfg. Co. (Creosote), St. Paul, Minn.

Wadsworth-Howland Co. (Inc.), Carpenter & Fulton, Chicago, Ill.
Wadsworth, Howland & Co., 84 Wash'n, Boston, Mass.

Walker Chemical Works, Harrison, N. J.
Wilhelm, A. Co., Reading, Pa.
Woolsey, C. A. Paint & Color Co., Merseles & Colden, Jersey City, N. J.

Wood Turned Goods, Etc.

(See Wood Novelties, Turned, Etc.)

Wood Turned House Trimmings

(See Columns, Porch, etc., Mfrs.; also Corner, Base & Head Block Mfrs.; also Grille, Fret & Lattice Work; also Mouldings, Various Kinds; also Ornaments, Wood; also Stair Builders' Supplies)

Wood Turning (Architectural)

Angne, G. & Co., 573 Reading rd., Cincinnati, O.
American Wood Working Co., 108 Fulton, New York
Baltimore Pattern & Model Works (Circus Wagon, Show Fronts, Animals, Birds, Images, etc.), 218 N Holliday, Baltimore, Md.
Batavia & New York Woodworking Co., Batavia, N. Y.
Blair, H. Crawford, 103 Eddy, Providence, R. I.
Boydton & Co., 421 W 15th, Chicago, Ill.
Buffalo Grille Co., 270 Court, Buffalo, N. Y.
Central Wood Turning Co., Minneapolis, Minn.
Clark, G. A. (House Turnings, etc.), Sidney, N. Y.
Dickey, Adam, & Co., 41 Bristol, Boston, Mass.
Ehnborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.
Essex Wood Turning Co. (Spindles of all Varieties), Essex, Conn.
Foster-Munger Co. (For the Trade Only), W 20th & S Sangamon, Chicago, Ill.
Gass, John H. Co., 601 Sackett, Brooklyn, N. Y.
Grand Rapids Carved Moulding Co., Grand Rapids, Mich.
Hillerich, J. F. & Son, 216 1st, Louisville, Ky.
Lenzer, Hy. & Son, 620 Main, Cincinnati, O.
Lewis, W. E. Mfg. Co. (Wooden Novelties), West Springfield, Pa.
Lovejoy, G. W., 1335 Main, Kansas City, Mo.
Mitchell, Robt., Furniture Co., 624 Race, Cincinnati, O.
New York Carved Moulding Co., Rider av & 139th, New York.
OSIECKI, THOS., 600 Kent av., Brooklyn, N. Y.
Peirce, W. E. & Co., Milford, N. H.
Pinches, Jno. Co., New Britain, Conn.
Root, C. R., 104 Asylum, Hartford, Conn.
Schaefer, Louis, W 21st & Loomis, Chicago, Ill.
Scranton Wood Working Co., Scranton, Pa.
STEARNS, A. T. LUMBER CO., Neponset, Boston, Mass. (See adv. index, end of book)
Walter, Rudolph, 4283 Park av., New York

Wood Turning & Enameling

American Enamel Co., Providence, R. I.
Baker, McMillen Co., Akron, O.
Brown, Lyman, Fitchburg, Mass.
Estes, E. B. & Sons, 74 Warren, New York
Hallworth Mfg. Co., Providence, R. I.
Handy Things Co., Ludington, Mich.
Indiana Small Handle Works, Fort Wayne, Ind.
Novelty Turning Co., Norway, Me.
OSBORN MFG. CO. (Rice Plant), New Durham, N. H. (See adv. index, end of book)
Providence Enamel Co., Providence, R. I.
Schutz Bros., 71 W Broadway, New York

Wood Turnings (Automatic)

American Enamel Co. (Artistic & Novelty, Small & Turned Woodwork), Providence, R. I.
Boydton & Co., 421 W 15th, Chicago, Ill.
Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Iowa; Metropolis, Ill.; & Columbia, Tenn.
Mahle, C. A. & Son (Ltd.), (Variety), Corry, Pa.
New York Carved Moulding Co., Rider av & 139th, New York
Peirce, W. E. & Co., Milford, N. H.
Rowe, Henry Mfg. Co. (Handles, Draw Pulls, Balls, Spindles, etc.), Newaygo, Mich.
Stephenson Mfg. Co., South Bend, Ind.
Thayer, Geo. A., Spruce Corner, Mass.
Tebbets, E. L. & Co. (Variety Turnings), Locke Mills, Pa.

Wood Turnings (Electrical)

(See also Woodwork, Electrical)

American Enamel Co. (Also Enameled Turnings), Providence, R. I.
Ehnborn Wood Turning & Mfg. Co., 19 N Jefferson, Chicago, Ill.
Harris & Cole Bros. (Wholesale Mfrs.), Cedar Falls, Ia.
Mahle, C. A. & Son (Ag'l. Wrench Handles, Brush & Broom Blocks, etc.), Corry, Pa.

Nashua Spool & Bobbin Co., Journal Bldg., Boston, Mass.
 New York Carved Moulding Co., Rider av & 139th, New York
 Novelty Turning Co. (Handles, Knobs, Buttons & Cord Adjusters, etc.), Norway, Me.
 Ohlo Scroll & Lumber Co. (Inc.), Covington, Ky.
OSBORN MFG. CO. (Rice Plant), New
 Durham, N. H. (See adv. index, end of book)
 Thayer, Geo. A., Spruce Corner, Mass.
 Union Hardware Co. (Of All Kinds), Providence, R. I.

Wood Turnings (Rope & Spiral)

(See Mouldings, Various Kinds)

Wood Wool

Detroit Excelsior Works, Detroit, Mich.
 Standard Excelsior Works, Atlanta, Ga.

Woodenware & Novelties, Mfrs.

(See also Wood Novelties, Turned, etc.)

Anderson Box & Basket Co. (Boxes & Baskets), Henderson, Ky.
 Ballou Basket Works (Baskets, etc.), Belding, Mich.
 Beaver Mills, Keene, N. H.
 Belding Hall Mfg. Co. (Stone Boards, etc.), Belding, Mich.
 Bliss Mfg. Co. (Woodenware, Mop Sticks, etc.), Bliss, N. Y.
 Booth & Ensign (Baskets), Gasport, N. Y.
 Bousfield & Co. (Woodenware), Bay City, Mich.
 Brammer, H. F., Mfg. Co. (Woodenware & Washing Machines), Davenport, Ia.
 Bridgeport Woodenware Mfg. Co., Bridgeport, Ala.
 Cumber Mfg. Co. (Woodenware, etc.), Cadillac, Mich.
 Dundas Woodenware Co., Dundas, Wis.
 Fuller, L. A., Marlboro Depot, N. H.
 Handy Things Co., Ludington, Mich.
 Hercules Specialty Co., Grove City, Pa.
 Keene Woodenware Co., Keene, N. H.
 Law, Ernest & Co. (Wooden Tent Poles & Pins), Harrison Bldg, Phila., Pa.
 Lewis, W. E. Mfg. Co. (Wooden Novelties), West Springfield, Pa.
 Ludington Woodenware Co., Ludington, Mich.
 Martin, Leason (Chair Stock, Palls, etc.), North Richmond, N. H.
 Menasha Woodenware Co., Menasha, Wis.
OSBORN MFG. CO. (Rice Plant), New
 Durham, N. H. (See adv. index, end of book)
 Richardi, H., Bellaire, Mich.
 Richardi & Bechtold, Bellaire, Mich.
 Stokes, W. A. & Co., 30 Warren, New York
 Udell Works (House Furnishing & Kitchen Woodenware), Indianapolis, Ind.
 Wellington, E. I. Rindge, N. H.
 Wolf, Peter, Lomira, Wis.

Woodwork (Architectural & Interior)

(See Interior Hardwood Work; also Sashes, Doors & Blinds)

Woodwork (Electrical)

(See Telephone Cabinet Work; also Wood Turnings, Electrical; also Mouldings, Electric Wiring)

Wool Carbonizers

Cochrane Chemical Co., Boston, Mass.

Wool Wadding

Bacon, C. N., Felt Works, Winchester, Mass.
 Evans & Co. ("Hygiene"), Lockport, N. Y.
 Graham, Chas., Chemical Pottery Works, 986 Metropolitan av, Brooklyn, N. Y.

Wrappers (Coin)

Detroit Coin Wrapper Co. ("Detroit," Made of Heavy Pressed Paper), Detroit, Mich.

Wrappers (Conduit Joint)

Phila. Electrical & Mfg. Co., 1234 N 31, Phila., Pa.

When writing to firms listed in this book please, mention HENDRICKS' COMMERCIAL REGISTER

Wrecking (Building)

(See Building Materials (Second-Hand))

Wrenches (Adjustable)

Anderson Coupling Co. ("Turnmore"), Portland, Conn.
 Bemis & Call Hardware & Tool Co. (S. Nut & Pipe), Springfield, Mass.
 Billings & Spencer Co., Hartford, Conn.
 Braunsdorf-Mueller Co., Elizabeth, N. J.
 Bullard Automatic Wrench Co. (Inc.) ("Bullard"), Providence, R. I.
 Crescent Tool Co. ("Crescent" Drop Forged), Jamestown, N. Y.
 Cronk & Carrier Mfg. Co. ("Alligator"), Elmira, N. Y.
 Greene, Tweed & Co. ("Baxter"), 109 Duane, New York
 Hall, Chas. E. Co., Buffalo, N. Y.
 Hjorth, Wm. & Co., Jamestown, N. Y.
 Keystone Mfg. Co. ("Westcott S."), Buffalo, N. Y.
 Mark Mfg. Co. ("Baxter's"), Evanston, Ill.
 Mossberg, Frank Co. ("Sterling" "Diamond" "Alderman" "National" A. & B. Series), Attleboro, Mass.
 Offset Handle Wrench Co. ("Ellis"), 125 La Salle, Chicago, Ill.
 Oliver Mfg. Co., 203 S. Desplaines, Chicago, Ill.
 Star Mfg. Co. ("Elgin"), Carpentersville, Ill.
 Uwanta Wrench Co. ("Uwanta" Instantaneous), Meadville, Pa.
 Webb & Hildreth Mfg. Co. (Automatic), Gloversville, N. Y.
 Welch, T. F. & Co. (Adjustable Tap), 65 Sudbury, Boston, Mass.
WELLS BROS. CO. ("Little Giant"),
 Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch offices, end of book)
 Zwicker, Fredk. ("The Z"), 463 Harmon, Indianapolis, Ind.

Wrenches (Adjustable, Pocket)

Billings & Spencer Co., Hartford, Conn.
 Bullard Automatic Wrench Co. (Inc.) ("Bullard"), Providence, R. I.

Wrenches (Agricultural)

Bullard Automatic Wrench Co. (Inc.) ("Bullard"), Providence, R. I.
COES WRENCH CO., Worcester,
 Mass. (See adv. index, end of book)
 Indianapolis Drop Forging Co. (Screw), Indianapolis, Ind.
 Lamson & Sessions Co. ("Canfield," Wrought Bar), Cleveland, O.
 Uwanta Wrench Co. ("Uwanta"), Meadville, Pa.
 Vandegrift Mfg. Co., Shelbyville, Ind.
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch offices, end of book)

Wrenches (Alligator)

Acme Hardware Co. ("Victor" Adjustable Drop Forged), Newark, N. J.
 Bonney Vise & Tool Works, Allentown, Pa.
 Canton Drop Forge & Mfg. Co., Canton, O.
 Cronk & Carrier Mfg. Co. (Adjustable), Elmira, N. Y.
 Forsyth Mfg. Co. ("Always Ready"), Buffalo, N. Y.
 Keystone Drop Forge Works ("Keystone," "Crocodile"), Chester, Pa.
 Kraeuter & Co. ("Victor" Adjustable), Newark, N. J.
 Roebling's, John A. Sons Co. (of New York) (Drop Forged), Trenton, N. J., & 117 Liberty, New York
 Star Mfg. Co. ("Elgin"), Carpentersville, Ill.
 Washington Tool Co. (Steel), Owatonna, Minn.
 Wells, F. E. & Son Co. (Drop Forged), Greenfield, Mass.
 Whitaker Mfg. Co. (Drop Forged), 30 W Monroe, Chicago, Ill.
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch offices, end of book)
 Wilcox, D. Mfg. Co., Mechanicsburg, Pa.

*Wrenches (Always Ready)

WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch offices, end of book)

Wrenches (Automatic)

Bullard Automatic Wrench Co. (Inc.) ("Bullard"), Providence, R. I.
 Trimont Mfg. Co. ("Trimont"), Amory av, Roxbury, Boston, Mass.
 Webb & Hildreth Mfg. Co., Gloversville, N. Y.

Wrenches (Automobile)

Ardmore Mfg. Co. ("Lowndes Duplex"), Ardmore, Pa.
 Baystate Tool Co., Worcester, Mass.
 Billings & Spencer Co. ("B. & S." Drop Forged), Hartford, Conn.
 Brosnhan Wrench Co., Worcester, Mass.
COES WRENCH CO. ("Star 91"),
 Worcester, Mass. (See adv. index, end of book)
 Essex Mfg. & Supply Co., Newark, N. J.
 Globe Machine & Stamping Co., 3868 Hamilton av., Cleveland, O.
 Hall, Chas. E., Co., Buffalo, N. Y.
 Handy Tool Co., Bellevue, Ohio.
 Harris, E. T. ("Service," "Alligator"), 531 W. 15th, Chicago, Ill.
 Kimball Co. ("Rapid"), Boston, Mass.
 Mason Wrench & Tool Co., First Natl. Bank bldg, Chicago, Ill.
 Pederson Mfg. Co., 636 1st av, New York
 Perfection Wrench Co. ("Perfection"), Port Chester, N. Y.
 Railway Appliances Co. ("Auto-Cle" Ratchet), Old Colony Bldg., Chicago, Ill.
 Rex Wrench Co. ("Rex Wrench Co. ("Rex" T. Socket, Also for Motor Boats), Boston, Mass.
 Syracuse Wrench Co. ("Yala"), Syracuse, N. Y.
 Wakefield, Jno. E., Worcester, Mass.
 Walden Mfg. Co., Worcester, Mass.
 Warren Axle Tool Co. ("American"), Warren, Pa.
WHITMAN & BARNES MFG. CO.,
 ("W & B"), West Pullman, Chicago, Ill.
 (See adv. index & branch offices, end of book)

Wrenches (Basin)

BERNZ, OTTO ("Bunzell"), S. 13th
 & S Orange av. Newark, N. J. (See adv. index, end of book)
 Climax Specialty Co., Elmira, N. Y.
 Osborne, C. S. & Co. ("S. S. O. & C." "Bunzell's"), Harrison, N. J.
 Sayre, L. A. & Co., 332 Mulberry, Newark, N. J.
 Trimont Mfg. Co. ("Trimont"), Amory av., Roxbury, Boston, Mass.

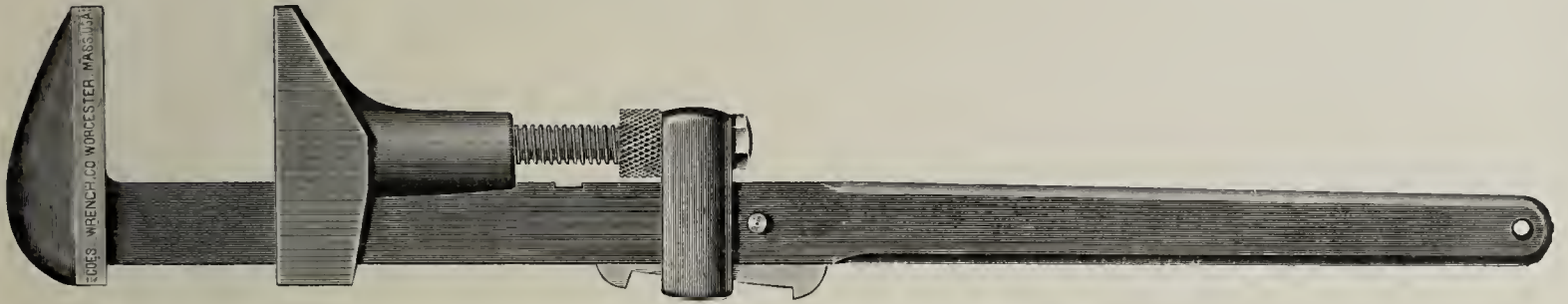
Wrenches (Bicycle & Pocket)

Andrews, C. E., Forestville, Conn.
 Barnes Tool Co., New Haven, Conn.
 Beckley-Ralston Co., 80 Michigau av, Chicago, Ill.
 Billings & Spencer Co., Hartford, Conn.
 Bullard Automatic Wrench Co. (Inc.) ("Bullard"), Providence, R. I.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Crosby Co., Buffalo, N. Y.
 Dudley Tool Co., Menominee, Mich.
 Ellis, F. L., & Son, Milldale, Conn.
 Hall, Chas. E. Co., Buffalo, N. Y.
 Jennings, C. E. Co., 42 Murray, New York
 Lamson & Sessions Co. (Case Hardened Steel Screw Wood Handle; also the "Buckeye"), 2188 Scranton Rd. S. W., Cleveland, O.
 Mossberg, Frank Co., Attleboro, Mass.
 Mossberg Wrench Co., Central Falls, R. I.
PAGE-STORMS DROP FORGE CO.,
 Chicopee, Mass. (See adv. index, end of book)
 Peck, Stow & Wilcox Co., Southington, Conn.
 Smith, Thomas & Co., Worcester, Mass.
 Smith & Egge Mfg. Co., Bridgeport, Conn.
 Smith & Hemenway Co., 108 Duane, New York
 Star Mfg. Co., Carpentersville, Ill.
 Sturges & Burn Mfg. Co., Chicago, Ill.
 Tower & Lyon Co., 95 Chambers, New York
 Wakefield, Jno. E., Worcester, Mass.
WILLIAMS, J. H. & CO., Brooklyn, N. Y.
 (See adv. index, end of book)
 Williams, J. H. & Co., Brooklyn, N. Y.

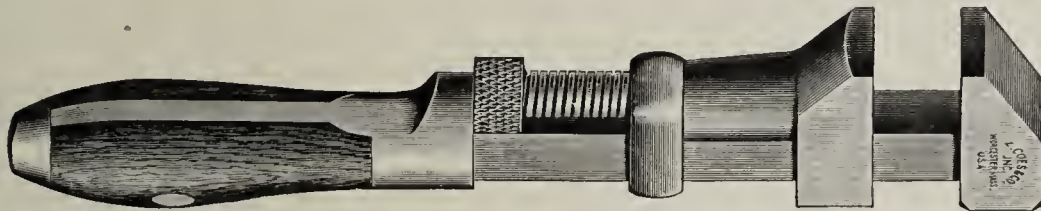
Wrenches (Box)

Billings & Spencer Co., Hartford, Conn.
PAGE-STORMS DROP FORGE CO.,
 Chicopee, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO.,
 Chicago, Ill. (See adv. index & branch offices, end of book)
 Williams, J. H. & Co. (Drop Forged), 150 Hamilton av., Brooklyn, N. Y.

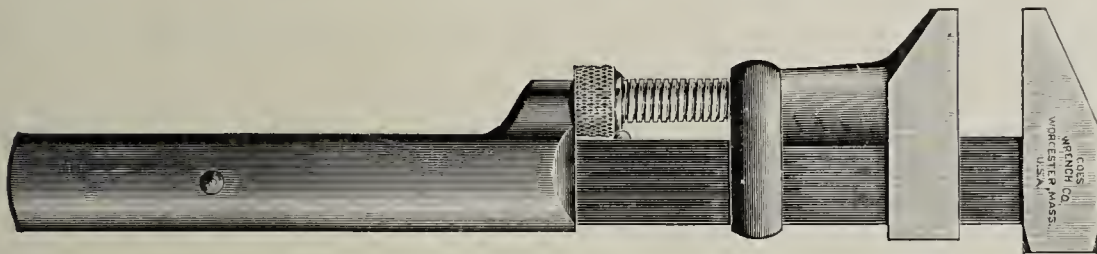
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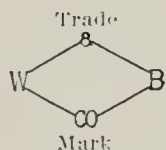
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NOTICE.



This book contains complete lists of the manufacturers and fabricators of every article made from iron and steel. For the particular specialty required, see Index of Contents. If any exception to the truth of this statement is found in consulting the columns of our Commercial Register, kindly advise and we will supply the deficiency.

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74 LAFAYETTE STREET,

NEW YORK, N. Y.

Wrenches (Brace Socket)

Braunsdorf-Mueller Co., Elizabeth, N. J.
Cincinnati Tool Co., Norwood, Cincinnati, O.
Reece, E. T. Co., Greenfield, Mass.
WELLS BROS. CO. ("Little Giant"),
Greenfield, Mass. (See adv. index, end
of book)

***Wrenches ("Bull Dog")**

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch
offices, end of book)

***Wrenches ("Bull Terrier")**

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch
offices, end of book)

Wrenches (Car Builders')

American Brake Shoe & Foundry Co. ("S."
"Tropenas," Cast Steel), Mahway, N. J.
PAGE-STORMS DROP FORGE CO.,
Chicopee, Mass. (See adv. index, end of
book)
WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch
offices, end of book)

Wrenches (Car Dumping)

Ideal Car Wrench & Mfg. Co. ("Phillips' Safe-
ty"), Trenton, N. J.

Wrenches (Carriage)

Goodell Co., Antrim, N. H.
Hunt, Helm, Ferris & Co. (Adjustable), Har-
vard, Ill.
Hurwood Mfg. Co. (Self-Adjusted Nickel Plated),
Bridgeport, Conn.
Joy, A. P., Rockingham, N. H.
Logan & Strowbridge Iron Co., New Brighton,
Mason, F. C. & Co., St. Johns, Mich. Pa.
Millers Falls Co. (Malleable Iron, Adjustable),
28 Warren, New York; Works, Millers Falls,
Mass.
Oliver Mfg. Co., 303 S Desplaines, Chicago, Ill.
Stowell Mfg. & Foundry Co., South Milwaukee,
Wis.
Tower & Lyon Co., 95 Chambers, New York
Union Malleable Iron Co., Moline, Ill.
Wells Bros. Co., Greenfield, Mass.

Wrenches (Carriage & Tire Bolt)

Custer Mfg. Co. ("Handy" Tire Bolter), Sum-
mitville, Ind.
Tudor Mfg. Co. ("Bay State" Ratchet), Wor-
cester, Mass.

Wrenches (Chain)

Bonner, C. E. Mfg. Co. ("Victor" Reversible),
Chrisman, Ill.
Brock Wrench Mfg. Co. (Drop Forged), 18
Dey, New York
Hilts Wrench & Mfg. Co. (Adjustable Pin),
Richford, N. Y.
Kroeschell Bros. Co. ("Ideal"), Chicago, Ill.
Robbins, Gamwell & Co., Pittsfield, Mass.
Rochester Drop Forge Co. ("Robbins," Pat-
tern), Rochester, N. Y.
Standard Nipple Mfg. Co. ("Duplex"), Pitts-
burgh, Pa.
Trimont Mfg. Co. ("Trimo"), Armory av, Rox-
bury, Boston, Mass.
Williams, J. H. & Co. ("Vulcan," "Agrip-
pa," Pipe Wrenches), 150 Hamilton av.,
Brooklyn, N. Y.

***Wrenches (Chuck)**

MORSE TWIST DRILL & MACHINE
Co. (For Chucks), New Bedford, Mass. (See
adv. index, end of book)
PAGE-STORMS DROP FORGE CO.,
Chicopee, Mass. (See adv. index, end of
book)

Wrenches (Combination)

Adjustable Wrench & Specialty Mfg. Co., Har-
vard, Ill.
Bemis & Call Hardware & Tool Co., Springfield,
Mass.
Bullard Automatic Wrench Co. (Inc.) ("Bul-
lard"), Providence, R. I.
Cronk & Carrier Mfg. Co., Elmira, N. Y.
Dudley Tool Co., Menominee, Mich.
Hawkeye Wrench Co., Marshalltown, Ia.
Stortz, Jno. & Son ("S"), 210 Vine, Phila., Pa.
Tower & Lyon Co., 95 Chambers, New York

Uwanta Wrench Co. ("Uwanta"), Meadville,
Vandegrift Mfg. Co., Shelbyville, Ind. Pa.
WHITMAN & BARNES MFG. CO.
("W & B"), Chicago, Ill. (See adv. in-
dex & branch offices, end of book)

Wrenches (Crocodile)

(See Wrenches, Alligator)

Wrenches (Dog)

Le Count, Wm. G. (Steel), South Norwalk,
Conn.
Trimont Mfg. Co., Roxbury, Boston, Mass.
WHITMAN & BARNES MFG. CO.
("Bull Dog"), Chicago, Ill. (See adv.
index & branch offices, end of book)

Wrenches (Drop Forged)

Billings & Spencer Co., Hartford, Conn.
Bonney Visc & Tool Works, Allentown, Pa.
Brock Wrench Mfg. Co., 18 Dey, New York
Brown, R. H. & Co., New Haven, Conn.
Canton Drop Forge & Mfg. Co., Canton, O.
Eccles, Richard Co., Auburn, N. Y.
Hall, Charles B. Co., Buffalo, N. Y.
Harbison & Modica Mfg. Co., Kansas City, Mo.
Hawkeye Wrench Co., Marshalltown, Ia.
Hjorth, Wm. & Co., Jamestown, N. Y.
Indianapolis Drop Forging Co., Indianapolis,
Ind.

Keystone Drop Forge Works, Chester, Pa.
Kilborn & Bishop Co. (Pipe), New Haven,
Conn.

Le Count, W. G., South Norwalk, Conn.
Marshalltown Drop Forge Co., Marshalltown,
Iowa

PAGE-STORMS DROP FORGE CO.,
Chicopee, Mass. (See adv. index, end of
book)

Rhode Island Tool Co., Providence, R. I.
Richards Mfg. Co. ("Wizard"), Aurora, Ill.
Smith, H. D. & Co., Plantsville, Conn.
Smith & Hemenway Co., 108 Duane, New
York

Solid Steel Tool & Forge Co. ("S. T. S."),
Brackenridge, Pa.

Transue & Williams Co., Alliance, O.
Trimont Mfg. Co. ("Trimo"), Armory av, Rox-
bury, Boston, Mass.

Vaughan & Bushnell Mfg. Co., Chicago, Ill.
Whitaker Mfg. Co. (Steel), 30 W Monroe, Chi-
cago, Ill.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch of-
fices, end of book)

Williams, J. H. & Co., 150 Hamilton av.,
Brooklyn, N. Y.

**Wrenches (Engineers' & Machin-
ists')**

American Brake Shoe & Foundry Co. (En-
gineers' "Tropenas," Cast Steel Single
& Double), Mahway, N. J.
Billings & Spencer Co. (Drop Forged), Hart-
ford, Conn.
Brock Wrench Mfg. Co. ("I. X. L." Nut &
Engineers), 18 Dey, New York
Canton Drop Forge & Mfg. Co., Canton, O.
Card, S. W. Mfg. Co., Mansfield, Mass.
Chester Steel Castings Co., 407 Sansom, Phila-
delphia, Pa.

COES WRENCH CO., Worcester,
Mass. (See adv. index, end of book)

Crescent Tool Co. ("Crescent" Drop Forged
Adjustable Engines), Jamestown, N. Y.

Dayton Malleable Iron Co. (Made of Malleable
Iron, for Railroads & Car Shops, Trade
Mark D), Dayton, O.

Dudley Tool Co. ("The Auto"), Menominee,
Mich.

Eccles, Richard Co. (Drop Forged), Auburn,
Girard Wrench Mfg. Co., Girard, Pa. N. Y.

Hall, Chas. E. Co., Buffalo, N. Y.
Handlan-Buck Mfg. Co. ("Bucks"), 212 N 3d,
St. Louis, Mo.

Harris & Reed Mfg. Co. ("Onward"), 331 W.
15th, Chicago, Ill.

Indianapolis Drop Forging Co., Indianapolis,
Ind.

**IRVING MFG. & TOOL CO. (J. F. Mc-
Coy Co., Prop.), 157 Chambers, New York.**
(See adv. index, end of book)

Jones & Laughlin Steel Co., Pittsburg, Pa.
Keystone Drop Forge Works (Drop Forge),
Chester, Pa.

Lamson & Sessions Co. ("Canfield" Case Hard-
ened Screw), 2188 Scranton rd. S. W., Cleve-
land, O.

Losel Wrench Works, Corry, Pa.

PAGE-STORMS DROP FORGE CO.
(Set Screws, Chuck, Milling Machine, Box,
Socket, Check Nut, Straight End, Car Con-
struction "S," Structural), Chicopee, Mass.
(See adv. index, end of book)

PATTERSON, GOTTFRIED & HUN-
ter (Ltd.), 211 Centre, New York

Peck, Stow & Wilcox Co., Southington, Conn.
Reed Mfg. Co. ("Tiger," Standard), Erie, Pa.

Rhode Island Tool Co. (Drop Forged Single &
Double End), Providence, R. I.

Stewart Wrench & Pipe Co., Schenectady, N. Y.
Tower & Lyon Co., 95 Chambers, New York

Trimont Mfg. Co. ("Trimo"), Amory av, Rox-
bury, Boston, Mass.

Tudor Mfg. Co. ("Bay State"), Taunton, Mass.
Uwanta Wrench Co. ("Uwanta"), Meadville,
Pa.

Walworth Mfg. Co., Boston Mass.
Whitaker Mfg. Co. (Drop Forged Steel), 30 W
Monroe, Chicago, Ill.

WHITMAN & BARNES MFG. CO.
(Screw, Knife Handle), Chicago, Ill. (See
adv. index & branch offices, end of book)

Williams, J. H. & Co. (Drop Forged), 150
Hamilton av., Brooklyn, N. Y.

Wright Wrench Co. ("Wright," Monkey
Wrench), Tacoma, Wash. Factory, Can-
ton, O.

Wrenches (Fixture)

Applied Device Co. ("Falcon"), Springfield,
Mass.

Yost Electric Mfg. Co. ("Falcon"), Toledo, O.

Wrenches (Flange)

Brock Wrench Mfg. Co. (Drop Forged), 18 Dey,
New York

Eaton, Cole & Burnham Co. ("Kellam"), Bridge-
port, Conn.

Gouhert Mfg. Co. ("Mayer"), Ratchet Rever-
sible), 90 West, New York

**Wrenches for Underground
Valves**

Kennedy Valve Mfg. Co., Elmira, N. Y.

Wrenches (Fruit Jar)

Forbes, Benj. P. ("Triumph"), 409 Superior
av., N. W., Cleveland, O.

***Wrenches (Hammer Handle)**

COES WRENCH CO., Worcester,
Mass. (See adv. index, end of book)

***Wrenches (Key Adjusting)**

COES WRENCH CO., Worcester,
Mass. (See adv. index, end of book)

**IRVING MFG. & TOOL CO. (J. F. Mc-
Coy Co., Prop.), 157 Chambers, New York.**
(See adv. index, end of book)

***Wrenches (Knife Handle)**

COES WRENCH CO., Worcester,
Mass. (See adv. index, end of book)

Wrenches (Lag Screw)

Dicke Tool Co., Downers Grove, Ill.
Klein, Mathias & Son, 87 W Van Buren, Chi-
cago, Ill.

***Wrenches (Lock Jaw)**

JEFFREY MFG. CO., Columbus, O.
(See adv. index & branch offices, end of book)

Wrenches (Locomotive)

American Brake Shoe & Foundry Co., Mah-
way, N. J.

Billings & Spencer Co. (Drop Forged), Hart-
ford, Conn.

WHITMAN & BARNES MFG. CO.,
Chicago, Ill. (See adv. index & branch of-
fices, end of book)

***Wrenches (Metal Handle)**

COES WRENCH CO., Worcester,
Mass. (See adv. index, end of book)

WHITMAN & BARNES MFG. CO.
("Railroad Special"), Chicago, Ill. (See
adv. index & branch offices, end of book)

Wrenches (Nut)

American Brake Shoe & Foundry Co., Mahway, N. J.
 Anderson Coupling Co. ("Turn More," Anderson Adjustable), Portland, Conn.
 Bemis & Call Hardware & Tool Co. ("S," Adjustable, Steel Handle), Springfield, Mass.
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Bullard Automatic Wrench Co. (Inc.) ("Bullard"), Providence, R. I.
COES WRENCH CO., Worcester, Mass. (See adv. index, end of book)
 Hawkeye Wrench Co. ("Hawkeye"), Marshalltown, Ia.
 Hjorth, Wm. & Co. ("Lighting"), Jamestown, N. Y.
 Joy, A. P., Rockingham, N. H.
 Keystone Mfg. Co. ("Wescott"), Buffalo, N. Y.
 Lever Co. ("Toggle-Grip"), 45 Cedar, New York.
 Oliver Mfg. Co., 203 S Desplaines, Chicago, Ill.
 Oswego Tool Co. (Adjustable), Oswego, N. Y.
PAGE-STORMS DROP FORGE CO. (For Check, Jam or Lock Nuts), Chicopee, Mass. (See adv. index, end of book)
 Star Mfg. Co. ("Elgin"), Carpentersville, Ill.
 Trimont Mfg. Co. ("Trimo," "Monkey"), Amory, N. Y.
 Tudor Mfg. Co. ("Bay State"), Taunton, Mass.
 Uwanta Wrench Co. ("Uwanta," Nut or Monkey Wrench), Meadville, Pa.
 Vandegrift Mfg. Co. ("Vandegrift"), Shelbyville, Ind.
 Wakefield, J. E. ("Wakefield"), Worcester, Mass.
WELLS BROS. CO. ("Little Giant"), Bit, Brace & Ratchet, Greenfield, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO. (Check Nut), Chicago, Ill. (See adv. index & branch offices, end of book)
 Wright Wrench Co. ("Wright," Monkey Wrench), Tacoma, Wash. Factory, Canton, O.

Wrenches (Nut, Bit Brace)

Wiley & Russell Mfg. Co. ("Lightning"), Greenfield, Mass.
WELLS BROS. CO. (Also for Ratchets), Greenfield, Mass. (See adv. index, end of book)
 *Wrenches (Oil Well Swivel)
AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
DUFF MFG. CO. ("Barrett's"), N. S. Pittsburg, Pa. (See adv. index & branch offices, end of book)

Wrenches (Pin)

Billings & Spencer Co. (Drop Forged Steel), Hartford, Conn.

Wrenches (Pipe)

AMERICAN TAP & DIE CO., Green-field, Mass. (See adv. index, end of book)
ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)
 Belden Machine Co. ("Hayden," Brass & Nickel), New Haven, Conn.
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Bonner, C. E. Mfg. Co. ("Victor"), Chrisman, Ill.
 Bonney Vise & Tool Works ("Always Ready," "Stillson," "Alligator"), Allentown, Pa.
 Brock Wrench Mfg. Co. (The "Brock," "Yankee" & "Standard"), 18 Dev. New York
 Brosnihan Wrench Co., Worcester, Mass.
 Bullard Automatic Wrench Co. (Inc.) ("Bullard"), Providence, R. I.
 Crane Valve Co., Bridgeport, Conn.
 Crescent Forging Co. ("Cresco"), Oakmont, Pa.
 Cronk & Carrier Mfg. Co., Elmira, N. Y.
 Darling Pump Mfg. Co. (Ltd.), Williamsport, Pa.
 Detroit Embossing Machine Co. ("Ewer"), Detroit, Mich.
 Dudley Tool Co. (Pipe & Nut Combined), Menominee, Mich.
 Edmonds-Metzel Mfg. Co. ("Universal Grip"), 1090 Wilcox av., Chicago, Ill.
 Ellis-Ford Mfg. Co. (Combination Pipe & Monkey Wrench), 18 Piquette, Detroit, Mich.
 Enterprise Windmill Co. ("Enterprise"), Sandwich, Ill.

Greene-Tweed & Co. ("Champion"), 109 Duane, New York
 Hammond Mfg. Co. ("Hammond" Quick Acting), 28 Atlantic av., Boston, Mass.
 Handlan-Buck Mfg. Co. ("Cochran"), 212 N 3d, St. Louis, Mo.
 Hawkeye Wrench Co. ("Hawkeye"), Marshalltown, Ia.
 Hilts Wrench & Mfg. Co. ("Hilts," "Eclipse" & Adjustable Chain), Richford, N. Y.
 Hjorth, Wm. & Co. ("Empire"), Jamestown, N. Y.
 Hollands Mfg. Co. ("Eagle"), Erie, Pa.
 Illinois Malleable Iron Co., 515 Diversey boul., Chicago, Ill.
 Indianapolis Drop Forging Co. ("Tiger"), Indianapolis, Ind.
 Ithaca Drop Forge Co. (Drop Forged), Ithaca, N. Y.
 Jarecki Mfg. Co., Erie, Pa., & Pittsburg, Pa.
 Keystone Mfg. Co. (The "Westcott" Adjustable), 41 Chandler, Buffalo, N. Y.
 Kilborn & Bishop Co. (Drop Forged), New Haven, Conn.
 Krauter & Co. ("Victor" Alligator), Newark, N. J.
 Kroeschell Bros. Co. ("Ideal"), Chicago, Ill.
 Lind Universal Tool Co. ("Lind Universal"), Providence, R. I.
 Los Angeles Ice Machine Wks. ("Stone" Pipe & Automatic Wrench), Los Angeles, Cal.
McMANN & TAYLOR, 104 John, New York. (See adv. index, end of book)
 Moore Drop Forging Co. ("Stillson" Drop Forged Wood or Steel Handle), Springfield, Mass.
 Nason Mfg. Co. ("Ideal" Chain), 71 Fulton, New York
OIL WELL SUPPLY CO. ("Frank-lin"), 215 Water, Pittsburg, Pa. (See adv. index, end of book)
 Oswego Tool Co. ("Giles," "Improved Stillson" Drop Forged), Oswego, N. Y.
PAGE-STORMS DROP FORGE CO. ("Irland" Drop Forged), Chicopee, Mass. (See adv. index, end of book)
PATTERSON, GOTTFRIED & HUN-ter (Ltd.), 211 Centre, New York
 Pfeifer, F. ("Johnston"), 101 Reade, New York
 Parmelee Wrench Co. ("Parmelee's" Griddle), 1058 W Monroe, Chicago, Ill.
 Reed Mfg. Co., Erie, Pa.
 Ripley Pipe Wrench Co. ("Leader"), Ripley, N. Y.
 Robins, Gamwell & Co., Pittsfield, Mass.
 Saunders, D. Sons, Yonkers, N. Y.
 Schwendner, Max, Reading, Pa.
 Star Mfg. Co. ("Elgin" Pipe Jaw), Carpentersville, Ill.
 Thurston Mfg. Co. ("Thurston," Drop Forged Straight Line), Worcester, Mass.
 Tower & Lyon Co. ("Involute"), 95 Chambers, New York
 Transue & Williams Co. (Drop Forged), Alliance, O.
 Trimont Mfg. Co. ("Trimo"), Amory, N. Y.
 Union Tool Co. ("Jackson" Instantaneous), 147 Milk, Boston, Mass.
 U. S. Wrench Co. ("Improved Stillson"), 299 B'way, New York
 Uwanta Wrench Co. ("Uwanta" Pipe & Nut Combined), Meadville, Pa.
 Vandegrift Mfg. Co. ("Vandegrift"), Shelbyville, Ia.
 Vaughn & Bushnell Mfg. Co. ("V. & B." Drop Forged Steel), 875 W Carroll ave., Chicago, Ill.
 Wakefield, Jno. E. ("Wakefield"), Worcester, Mass.
 Walworth Mfg. Co. ("Stillson," "Allston's," "Hall"), 132 Federal, Boston, Mass.
 Warnock Mfg. Co. ("Warnock" Smooth & Nickel Pipe), Worcester, Mass.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)
 Wells, F. E. & Son Co. ("Wells"), Greenfield, Mass.
WHITMAN & BARNES MFG. CO. ("W. & B."), Chicago, Ill. (See adv. index & branch offices, end of book)
 Wilcox Mfg. Co. ("The Yankee Jaw"), Aurora, Ill.
 Williams, J. H. Co. ("Brock," "Vulcan," "Agrippa," Drop Forged), 150 Hamilton av., Brooklyn, N. Y.
 Zwicker, Fredk ("The Z" Instantaneous Adjustable), 463 Harmon, Indianapolis, Ind.

Wrenches (Pipe & Pipe Cutter Combined)

Bonney Vise & Tool Works ("Masterpieces"), Allentown, Pa.

Wrenches (Ratchet)

Andreon & Co. ("Andreon-Morse"), Century bldg., St. Louis, Mo.
 Bullard Automatic Wrench Co. (Inc.) ("Bullard"), Providence, R. I.
 Green-Tweed & Co. ("Favorite," Reversible), 109 Duane, New York.
IRVING MFG. CO. & TOOL CO. (J. F. McCoy Co., Prop.), 157 Chambers, New York. (See adv. index, end of book)
 Kemp, C. M. Mfg. Co., 401 E Oliver, Baltimore, Md.
 Keystone Mfg. Co. ("Keystone" Reversible), Buffalo, N. Y.
 Lord, L. L. Co. ("Lord," with Handle), Meadville, Pa.
 Lovejoy Tool Works, 90 Ohio, Chicago, Ill.
 Lowell Wrench Co., Worcester, Mass.
 Moore Drop Forging Co., Springfield, Mass.
 Richards Mfg. Co. ("Wizard"), Aurora, Ill.
 Simplex Mfg. Co. ("Turn-More"), 90 West, New York.
 Tudor Mfg. Co. ("Bay State"), Taunton, Mass.
 Walden Mfg. Co., Worcester, Mass.
WELLS BROS. CO. ("Little Giant"), Greenfield, Mass. (See adv. index, end of book)

Wrenches ("S")

American Brake Shoe & Foundry Co., Mahway, N. J.
 Bemis & Call Hardware & Tool Co. (Adjustable), 983 Main, Springfield, Mass.
 Buckeye Mfg. Co., Canton, O.
 Billings & Spencer Co. (Drop Forged, Adjustable, Hexagon, etc.), Hartford, Conn.
 Canton Drop Forge & Mfg. Co., Canton, O.
 Green-Tweed & Co. ("Baxter" Adjustable), 109 Duane, New York
 Hall, Chas. E. Co., Buffalo, N. Y.
 Handy Tool Co., Bellevue, O.
 Keystone Mfg. Co. ("Wescott" Adjustable), Buffalo, N. Y.
 Oswego Tool Co. (Adjustable Nut & Pipe), Oswego, N. Y.
PAGE-STORMS DROP FORGE CO. (All Kinds), Chicopee, Mass. (See adv. index, end of book)
 Stearns, E. C. & Co. ("Baxter"), Syracuse, N. Y.
WHITMAN & BARNES MFG. CO., Chicago, Ill. (See adv. index & branch offices, end of book)

Wrenches (Screw)

Adjustable Wrench & Specialty Mfg. Co., Harvard, Ill.
 Athol Machine Co. ("Rapid Transit"), Athol, Mass.
 Beckley-Ralston C., 80 Michigan av., Chicago, Ill.
 Bemis & Call Hardware & Tool Co. ("Briggs" & "Merrick" Pattern), Springfield, Mass.
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
COES WRENCH CO. ("Coes"), Wor-cester, Mass. (See adv. index, end of book)
 Collins Co., Collinsville, Conn.
 Hilt's Wrench Mfg. Co. ("Hilts" Adjustable Drop Forged), Richford, N. Y.
 Hjorth, Wm. & Co., Jamestown, N. Y.
 Indianapolis Drop Forging Co. (Agricultural), Indianapolis, Ind.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 157 Chambers, New York. (See adv. index, end of book)
 Keystone Drop Forge Works (Steel Set Screw), Chester, Pa.
 Lamson & Sessious Co. ("Lamson"), Cleveland, Ohio
 Mason, F. C. & Co. ("Mason"), St. Johns, Mich.
 Mossberg, Frank Co. ("Mossberg"), Attleboro, Mass.
 Mossberg Wrench Co., Central Falls, R. I.
PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
 Peck, Stow & Wilcox Co. ("P. S. & W."), Southington, Conn.
 Smith, H. D. & Co. ("Perfect Handle," Drop Forged), Plantsville, Conn.
 Transue & Williams Co. (Drop Forged), Alliance, O.
 Uwanta Wrench Co. ("Uwanta"), Meadville, Pa.
 Vandegrift Mfg. Co. ("Vandegrift"), Shelbyville, Ind.
 Whitaker Mfg. Co. (Agl. & Machinists, etc.), 30 W Monroe, Chicago, Ill.
WHITMAN & BARNES MFG. CO. Chicago, Ill. (See adv. index & branch offices, end of book)

Wrenches (Socket)

Harris, Samuel & Co., 23 S Clinton, Chicago, Ill.
 Indianapolis Drop Forging Co., Indianapolis, Ind.
 Keystone Mfg. Co. ("Keystone," "Giant," With Reversible Ratchet), Buffalo, N. Y.
 Loudon Machinery Co., Fairfield, Pa.
PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
 Rex Wrench Co. ("Rex" T-socket, for Automobiles & Motor Boats), 184 Summer, Boston, Mass.
 Williams, J. H. & Co., 150 Hamilton av., Brooklyn, N. Y.
 Winters Bros. Co., Wrentham, Mass.
WORCESTER PRESSED STEEL CO., Worcester, Mass. (See adv. index, end of book)

Wrenches (Spanner)

AMERICAN WELL WORKS, Aurora, Ill. (See adv. index & branch offices, end of book)
 Billings & Spencer Co. (Drop Forged Adjustable), Hartford, Conn.
 Brock Wrench Mfg. Co. ("Brock's" Drop Forged), 18 Dey, New York
 Granger Drop Forge Works, 689 Carroll, Chicago, Ill.
 Keystone Drop Forge Works (Drop Forged), Chester, Pa.
LUNKENHEIMER CO. (Adjustable), General Offices & Works, Beekman & Waverly, Cincinnati, O. (See adv. index & branch offices, end of book)
PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
 Rhode Island Tool Co. (Drop Forged), Providence, R. I.
 Williams, J. H. & Co. (Drop Forged), 150 Hamilton av., Brooklyn, N. Y.

Wrenches (Splicing)

Dicke Tool Co., Downers Grove, Ill.
 Klein, Mathias & Son, 87 W Van Buren, Chicago, Ill.

Wrenches (Sprocket)

Ayes & Co. ("Champion" Hub), 57 Ellen, Chicago, Ill.

Wrenches (Staybolt)

Thompson, C. A. ("Acme" Flexible), 516 N 3d, St. Louis, Mo.

*Wrenches (Steel)

COES WRENCH CO., Worcester, Mass. (See adv. index, end of book)

Wrenches ("T")

Nordyke & Marmon Co., Indianapolis, Ind.
 Reece, E. F. Co., ("Reece Premier"), Greenfield, Mass.

Wrenches (Tap & Reamer)

AMERICAN TAP & DIE CO. ("Am. T. & D. Co."), Greenfield, Mass. (See adv. index, end of book)
ARMSTRONG MFG. CO., Bridgeport, Conn. (See adv. index & branch offices, end of book)
 Bay State Tap & Die Co., Mansfield, Mass.
 Bergman Hardware & Tool Mfg. Co. (Tap), Buffalo, N. Y.
 Besly, Chas. H. Co. ("Besly" Tap), 15 S Clinton, Chicago, Ill.
 Billings & Spencer Co., Hartford, Conn.
 Braunsdorf-Mueller Co. (Tap), Elizabeth, N. J.
 Brubaker, W. L. & Bros. (Adjustable), Millersburg, Pa.
 Butterfield & Co., Derby Line, Vt.
 Card, S. W. Mfg. Co. ("Horsfield"), Mansfield, Mass.
 Carpenter, J. M. Tap & Die Co. ("Nichols"), Pawtucket, R. I.
 Hart Mfg. Co. ("Duplex" Adjustable Tap), Cleveland, O.
 Holroyd & Co. ("Holroyd" Adjustable Tap), Waterford, N. Y.
 Keystone Mfg. Co. ("Keystone" or Ratchet Stud Driver), Buffalo, N. Y.
 Massachusetts Tool Co., Greenfield, Mass.
MORSE TWIST DRILL & MACHINE CO. (For Adjustable Reamers & Taps), New Bedford, Mass. (See adv. index, end of book)
 Pawtucket Mfg. Co., Pawtucket, R. I. (book)

Polk, A. J. & Son (Adjustable), Millersburg, Pa.
 Reece, E. F. Co. ("Hercules"), Greenfield, Mass.
 Sawyer Tool Mfg. Co. (Tap), Pitsburg, Mass.
SMART, A. J. MFG. CO. ("Bascom" Adjustable Tap), Greenfield, Mass. (See adv. index, end of book)
 Standard Tool Co., Central av & R. Ry., Cleveland, O.
STARRETT, L. S. CO. (Tap Wrenches), Athol, Mass. (See adv. index & branch offices, end of book)
 Walworth Mfg. Co., Boston, Mass.
WELLS BROS. CO. ("Little Giant," Adjustable), Greenfield, Mass. (See adv. index, end of book)
 Wiley & Russell Mfg. Co. ("Green River," "Lightning," Adjustable), Greenfield, Mass.
 Winter Bros. Co., Wrentham, Mass.

Wrenches (Thresher Cylinder)

Excelsior Thresher Tooth Co. ("Excelsior"), Dexter, Iowa
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 Johnson Bros. ("Tiger"), Freeport, Ill.
 Parsons Band Cutter & Self Feeder Co. ("Success"), Newton, Ia.
 Russell & Co. ("Russell"), Massillon, O.

Wrenches (Tool Post)

Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Booth Drop Forge Co. (Double Head), 114 Nassau, New York
 Indianapolis Drop Forging Co., Indianapolis, Ind.
PAGE-STORMS DROP FORGE CO., Chicopee, Mass. (See adv. index, end of book)
WHITMAN & BARNES MFG. CO. (Drop Forged), Chicago, Ill. (See adv. index & branch offices, end of book)
 Williams, J. H. & Co. (Drop Forged), 150 Hamilton av., Brooklyn, N. Y.

Wrenches (Track)

Abner-Doble Co., San Francisco, Cal.
 American Brake Shoe & Foundry Co. (Cast Steel), Mahway, N. J.
 Athol Tool Co., ft Chapel, Newark, N. J.
 Beall Bros. (Inc.), Single & Double End), Alton, Ill.
 Billings & Spencer Co. (Drop Forged), Hartford, Conn.
 Chester Steel Castings Co., 407 Sansom, Philadelphia, & Chester, Pa.
 Evansville Tools Works, Evansville, Ind.
 Goubert Mfg. Co. ("Meyer's" Reversible Ratchet), 90 West, New York
 Harvey, H. H., 608 Atlantic av, Boston, Mass.
 Hubbard & Co., Pittsburg, Pa.
 Indianapolis Drop Forging Co., Indianapolis, Ind.
 Iron City Tool Works (Ltd.), Pittsburg, Pa.
IRVING MFG. & TOOL CO. (J. F. McCoy Co., Prop.), 157 Chambers, New York. (See adv. index, end of book)
JEFFREY MFG. CO., Columbus, O. (See adv. index & branch offices, end of book)
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Keystone Drop Forge Works, Chester, Pa.
 Klein-Logan Co., Pittsburg, Pa.
 Lovejoy Tool Works, 86 E. Ohio, Chicago, Ill.
 Pittsburg Tool & Drop Forge Co. ("Cheswick"), Works, Cheswick, Pa.
 Plumb, Fayette R., Frankford, Phila., Pa.
 Solid Steel Tool & Forge Co. ("S. T. S."), Brackenridge, Pa.
 Union Drop Forge Co., 69 Indiana, Chicago, Ill.
 Vaughan & Bushnell Mfg. Co. ("V. & B." Drop Forged), 875 W Carroll ave., Chicago, Ill.
 Verona Tool Works (Straight & T.), Verona, Pa., & Pittsburg, Pa.
 Warwood Tool Co., Wheeling, W. Va.
 Williams, J. H. & Co. (Drop Forged), 150 Hamilton av., Brooklyn, N. Y.

Wrenches (Wagon Skein)

Sandage Steel Skein Co., South Bend, Ind.

Wringers (Clothes)

Acme Washing Machine Co. ("Acme" & "National"), Columbus, O.
 American Wringer Co., 99 Chambers, New York, & Woonsocket, R. I.
 Atlas Laundry Machinery Co., Cincinnati, O.
 Columbia Mfg. Co., Columbia, Pa.

Levell, Mfg. Co., Erie, Pa.
 Nineteen Hundred Washer Co., Binghamton, N. Y.
 North Bros. Mfg. Co., Philadelphia, Pa.

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 Ayes & Co. ("Champion"), 57 Ellen, Chicago, Ill.
 Beech Novelty Co. ("Beech" Mop Wringer & Pail Combined), Mansfield, O.
 Bennington Mopwringer Co. ("Molly Stark"), Bennington, Vt.
 Brockton Mop Wringer Co. ("Brockton"), Brockton, Mass.
 Dana Mfg. Co. ("Dana"), Cincinnati, O.
 Eagle Cooperage Works ("Eagle" Wringer & Bucket Combined), Circleville, O.
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 Goddard Mop Press Co., Akron, O.
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 Tucker & Dorsey Mfg. Co. (Mop & Bucket Combined), State av & Bates, Indianapolis, Ind.
 White Mop Wringer Co. ("White"), Fultonville, N. Y.

Wrought Iron Pipe

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X-Ray Apparatus

Anderson, Norden & Co. ("Nelson"), 18 W Randolph, Chicago, Ill.
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 Dodd & Struthers, Des Moines, Ia.
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New Jersey Zinc Co., 45 Wall, New York.
United States Smelting Co. ("Standard" Zinc
Lead, White), Canon City, Colo.



NOTICE.



This book contains complete lists of the manufacturers and fabricators of every article made from iron and steel. For the particular specialty required, see Index of Contents. If any exception to the truth of this statement is found in consulting the columns of our Commercial Register, kindly advise and we will supply the deficiency.

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Culburtson bldg, Okalahoma City, Okla. (Office of Soliciting Agent); Scollard bldg, Dallas, Tex. (Office of Soliciting Agent); Power blk, Helena, Mont.; Providence bldg, Duluth, Minn.; Phoenix bldg, Minneapolis, Minn.; Kittredge bldg, Denver, Col.; Dooley bldg, Salt Lake City, Utah; Union Trust bldg, San Francisco, Cal.; Delta bldg, Los Angeles, Cal.; Worcester bldg, Portland, Ore., & Colman bldg, Seattle, Wash. Foreign Offices: Mexican General Electric Co., San Juan de Letran, No. 3 Apartado 403 City of Mexico, Mexico; South African General Electric Co., P. O. Box 1995; Johannesburg, Transvaal, South Africa; South American General Electric Supply Co., Calle South American General Electric Supply Co., Calle Cuyo 531, Buenos Ayres, Argentine Republic, South America; General Electric Co. (of New York), 83 Cannon, London, E. C., England; Australian General Electric Co., Equitable bldg, Melbourne, Australia; Australian General Electric Co., 217 Clarence, Sidney, Australia, & General Electric Co. (Of New York), P. O. Box 271, Calcutta, India.

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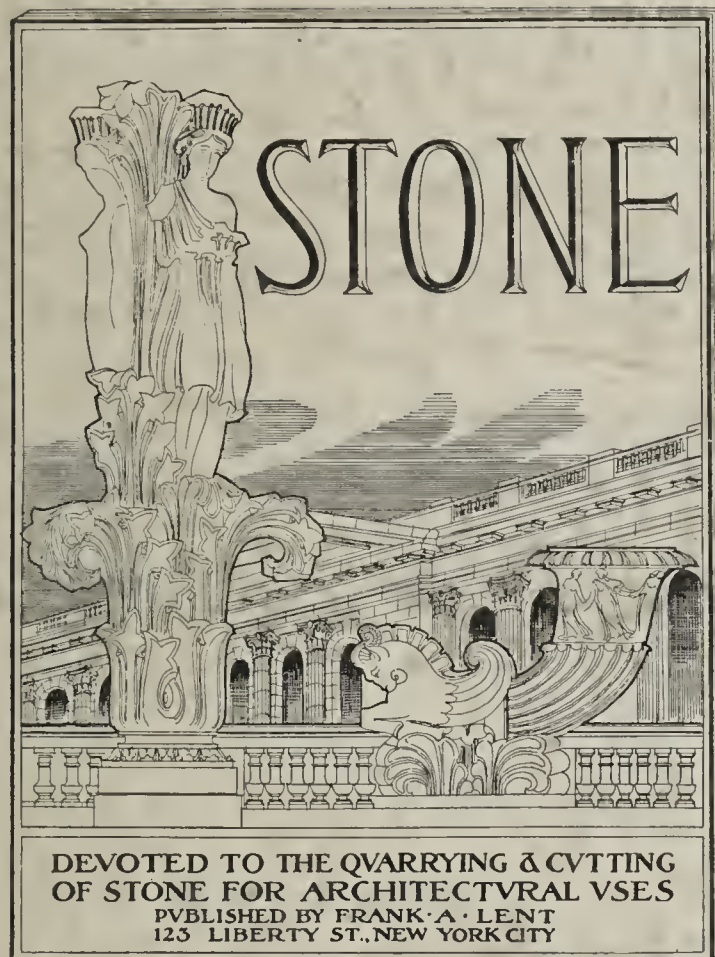
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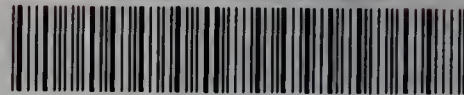
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